Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**B-149-SB02**								
Q1746-03	B-149-SB02	SOIL	Acetone		320		5.90	31.1	ug/Kg
Q1746-03	B-149-SB02	SOIL	Carbon Disulfide		2.40	J	1.30	6.20	ug/Kg
Q1746-03	B-149-SB02	SOIL	2-Butanone		76.3		8.10	31.1	ug/Kg
			Total Voc :		399				
			Total Concentration:		399				
Client ID:	**B-158-GW01**								
Q1746-05	B-158-GW01	Water	Acetone		17.4		1.50	5.00	ug/L
Q1746-05	B-158-GW01	Water	Chloroform		30.2		0.25	1.00	ug/L
Q1746-05	B-158-GW01	Water	Bromodichloromethane		10.8		0.22	1.00	ug/L
Q1746-05	B-158-GW01	Water	Toluene		24.9		0.14	1.00	ug/L
Q1746-05	B-158-GW01	Water	Dibromochloromethane		5.00		0.18	1.00	ug/L
			Total Voc :		88.3				
Q1746-05	B-158-GW01	Water	Benzene, 1,2,4,5-tetramethyl-	*	17.5	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Azulene	*	9.00	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 1,2,3,4-tetramethyl-	*	11.1	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 1-methyl-3-(1-methyl	*	11.9	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 4-ethyl-1,2-dimethyl-	*	6.10	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 2-ethyl-1,4-dimethyl-	*	5.60	J	0	0	ug/L
Q1746-05	B-158-GW01	Water	Benzene, 2-ethenyl-1,4-dimethy	*	16.0	J	0	0	ug/L
			Total Tics :		77.2				
			Total Concentration:		166				
Client ID:	**B-149-GW01**								
Q1746-06	B-149-GW01	Water	Acetone		12.6		1.50	5.00	ug/L
Q1746-06	B-149-GW01	Water	Carbon Disulfide		1.00		0.21	1.00	ug/L
Q1746-06	B-149-GW01	Water	Methylene Chloride		0.51	J	0.28	1.00	ug/L
Q1746-06	B-149-GW01	Water	Chloroform		26.6		0.25	1.00	ug/L
Q1746-06	B-149-GW01	Water	Bromodichloromethane		11.0		0.22	1.00	ug/L
Q1746-06	B-149-GW01	Water	Toluene		0.92	J	0.14	1.00	ug/L
Q1746-06	B-149-GW01	Water	Dibromochloromethane		6.00		0.18	1.00	ug/L
			Total Voc :		58.6				
			Total Concentration:		58.6				
Client ID:	**EB-2025-4-7**								
Q1746-07	EB-2025-4-7	Water	Acetone		10.6		1.50	5.00	ug/L
			Total Voc :		10.6				
			Total Concentration:		10.6				

SAMPLE DATA

Raw Data: **VY021833.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.3
Sample Wt/Vol:	5.36 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021833.D	1		04/10/25 13:16	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.83	U	0.83	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	5.00	U	5.00	26.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.90	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.84	U	0.84	5.20	ug/Kg
110-82-7	Cyclohexane	0.83	U	0.83	5.20	ug/Kg
78-93-3	2-Butanone	6.80	U	6.80	26.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.88	U	0.88	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.97	U	0.97	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.20	ug/Kg
71-43-2	Benzene	0.83	U	0.83	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.95	U	0.95	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.81	U	0.81	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	26.1	ug/Kg
108-88-3	Toluene	0.81	U	0.81	5.20	ug/Kg

Raw Data: **VY021833.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.3
Sample Wt/Vol:	5.36 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021833.D	1		04/10/25 13:16	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.96	U	0.96	5.20	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.1	ug/Kg
124-48-1	Dibromochloromethane	0.91	U	0.91	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.92	U	0.92	5.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.20	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.4	ug/Kg
95-47-6	o-Xylene	0.86	U	0.86	5.20	ug/Kg
100-42-5	Styrene	0.74	U	0.74	5.20	ug/Kg
75-25-2	Bromoform	0.90	U	0.90	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.81	U	0.81	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		70 (63) - 130 (155)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (70) - 130 (134)	106%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	30.4	*	70 (38) - 130 (136)	61%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	7.713			
540-36-3	1,4-Difluorobenzene	393000	8.616			
3114-55-4	Chlorobenzene-d5	300000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	79400	13.347			

Raw Data: **VY021833.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.3
Sample Wt/Vol:	5.36 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021833.D	1		04/10/25 13:16	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VY021834.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.8
Sample Wt/Vol:	4.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021834.D	1		04/10/25 13:40	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	6.20	ug/Kg
74-87-3	Chloromethane	1.40	U	1.40	6.20	ug/Kg
75-01-4	Vinyl Chloride	0.98	U	0.98	6.20	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.20	ug/Kg
75-00-3	Chloroethane	1.60	U	1.60	6.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	6.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.30	U	1.30	6.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	6.20	ug/Kg
67-64-1	Acetone	320		5.90	31.1	ug/Kg
75-15-0	Carbon Disulfide	2.40	J	1.30	6.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.91	U	0.91	6.20	ug/Kg
79-20-9	Methyl Acetate	1.90	U	1.90	6.20	ug/Kg
75-09-2	Methylene Chloride	4.40	U	4.40	12.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.20	ug/Kg
75-34-3	1,1-Dichloroethane	1.00	U	1.00	6.20	ug/Kg
110-82-7	Cyclohexane	0.98	U	0.98	6.20	ug/Kg
78-93-3	2-Butanone	76.3		8.10	31.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.20	U	1.20	6.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.93	U	0.93	6.20	ug/Kg
74-97-5	Bromochloromethane	1.40	U	1.40	6.20	ug/Kg
67-66-3	Chloroform	1.00	U	1.00	6.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	6.20	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.20	ug/Kg
71-43-2	Benzene	0.98	U	0.98	6.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.98	U	0.98	6.20	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.20	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	6.20	ug/Kg
75-27-4	Bromodichloromethane	0.97	U	0.97	6.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.50	U	4.50	31.1	ug/Kg
108-88-3	Toluene	0.97	U	0.97	6.20	ug/Kg

Raw Data: **VY021834.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.8
Sample Wt/Vol:	4.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021834.D	1		04/10/25 13:40	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.81	U	0.81	6.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.77	U	0.77	6.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.20	ug/Kg
591-78-6	2-Hexanone	4.60	U	4.60	31.1	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	6.20	ug/Kg
106-93-4	1,2-Dibromoethane	1.10	U	1.10	6.20	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	6.20	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	6.20	ug/Kg
100-41-4	Ethyl Benzene	0.83	U	0.83	6.20	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	12.4	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	6.20	ug/Kg
100-42-5	Styrene	0.88	U	0.88	6.20	ug/Kg
75-25-2	Bromoform	1.10	U	1.10	6.20	ug/Kg
98-82-8	Isopropylbenzene	0.97	U	0.97	6.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	1.50	6.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	2.10	6.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.90	6.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.80	6.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	6.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.70	U	3.70	6.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.00	U	4.00	6.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (70) - 130 (134)	103%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.5		70 (38) - 130 (136)	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	219000	7.713			
540-36-3	1,4-Difluorobenzene	400000	8.616			
3114-55-4	Chlorobenzene-d5	325000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	109000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.8
Sample Wt/Vol:	4.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021834.D	1		04/10/25 13:40	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045631.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045631.D	1		04/07/25 16:08	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	17.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	30.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	10.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	24.9		0.14	1.00	ug/L

Raw Data: **VX045631.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045631.D	1		04/07/25 16:08	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	5.00		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60600	5.55			
540-36-3	1,4-Difluorobenzene	120000	6.757			
3114-55-4	Chlorobenzene-d5	111000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	47600	12.018			
TENTATIVE IDENTIFIED COMPOUNDS						

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045631.D	1		04/07/25 16:08	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	6.10	J		12.3	ug/L
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	5.60	J		12.5	ug/L
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	11.9	J		12.6	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	11.1	J		12.9	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	17.5	J		13.0	ug/L
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	16.0	J		13.3	ug/L
000275-51-4	Azulene	9.00	J		13.8	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045632.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045632.D	1		04/07/25 16:31	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	12.6		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.51	J	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	26.6		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	11.0		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.92	J	0.14	1.00	ug/L

Raw Data: **VX045632.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045632.D	1		04/07/25 16:31	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	6.00		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67700	5.55			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	121000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	48300	12.018			

Raw Data: **VX045632.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045632.D	1		04/07/25 16:31	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045641.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045641.D	1		04/08/25 10:55	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	10.6		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Raw Data: **VX045641.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045641.D	1		04/08/25 10:55	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	50.9		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65800	5.543			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	122000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51100	12.024			

Raw Data: **VX045641.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045641.D	1		04/08/25 10:55	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045629.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	TB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045629.D	1		04/07/25 15:21	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	TB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045629.D	1		04/07/25 15:21	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.9		70 (74) - 130 (125)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64200	5.55			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	121000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	49700	12.018			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	TB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045629.D	1		04/07/25 15:21	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1746-01	B-149-SB01	1,2-Dichloroethane-d4	50	51.3	103		70 (63)	130 (155)
		Dibromofluoromethane	50	52.8	106		70 (70)	130 (134)
		Toluene-d8	50	48.6	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	30.4	61	*	70 (38)	130 (136)
Q1746-03	B-149-SB02	1,2-Dichloroethane-d4	50	51.9	104		70 (63)	130 (155)
		Dibromofluoromethane	50	51.6	103		70 (70)	130 (134)
		Toluene-d8	50	48.9	98		70 (74)	130 (123)
		4-Bromofluorobenzene	50	37.5	75		70 (38)	130 (136)
VY0410SBL01	VY0410SBL01	1,2-Dichloroethane-d4	50	46.6	93		70 (63)	130 (155)
		Dibromofluoromethane	50	49.9	100		70 (70)	130 (134)
		Toluene-d8	50	48.5	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	38.3	77		70 (38)	130 (136)
VY0410SBS01	VY0410SBS01	1,2-Dichloroethane-d4	50	49.2	98		70 (63)	130 (155)
		Dibromofluoromethane	50	53.4	107		70 (70)	130 (134)
		Toluene-d8	50	54.3	109		70 (74)	130 (123)
		4-Bromofluorobenzene	50	53.3	107		70 (38)	130 (136)
VY0410SBSD01	VY0410SBSD01	1,2-Dichloroethane-d4	50	48.5	97		70 (63)	130 (155)
		Dibromofluoromethane	50	50.9	102		70 (70)	130 (134)
		Toluene-d8	50	51.4	103		70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101		70 (38)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1746-05	B-158-GW01	1,2-Dichloroethane-d4	50	55.9	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.6	103	70 (77)	130 (121)
Q1746-06	B-149-GW01	1,2-Dichloroethane-d4	50	55.7	111	70 (74)	130 (125)
		Dibromofluoromethane	50	51.5	103	70 (75)	130 (124)
		Toluene-d8	50	49.9	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.3	99	70 (77)	130 (121)
Q1746-07	EB-2025-4-7	1,2-Dichloroethane-d4	50	55.4	111	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.1	104	70 (77)	130 (121)
Q1746-08	TB-2025-4-7	1,2-Dichloroethane-d4	50	57.9	116	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	50.6	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.7	103	70 (77)	130 (121)
VX0407WBL01	VX0407WBL01	1,2-Dichloroethane-d4	50	56.0	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.6	103	70 (77)	130 (121)
VX0407WBS01	VX0407WBS01	1,2-Dichloroethane-d4	50	50.8	102	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	49.8	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.4	101	70 (77)	130 (121)
VX0407WBSD0	VX0407WBSD01	1,2-Dichloroethane-d4	50	50.7	101	70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.6	105	70 (77)	130 (121)
VX0408WBL01	VX0408WBL01	1,2-Dichloroethane-d4	50	55.5	111	70 (74)	130 (125)
		Dibromofluoromethane	50	52.7	105	70 (75)	130 (124)
		Toluene-d8	50	51.4	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
VX0408WBS01	VX0408WBS01	1,2-Dichloroethane-d4	50	47.7	95	70 (74)	130 (125)
		Dibromofluoromethane	50	47.4	95	70 (75)	130 (124)
		Toluene-d8	50	47.7	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045617.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0407WBS01	Dichlorodifluoromethane	20	19.8	ug/L	99			40 (69)	160 (116)	
	Chloromethane	20	17.5	ug/L	88			40 (65)	160 (116)	
	Vinyl chloride	20	18.0	ug/L	90			70 (65)	130 (117)	
	Bromomethane	20	17.6	ug/L	88			40 (58)	160 (125)	
	Chloroethane	20	19.5	ug/L	98			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.6	ug/L	93			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.5	ug/L	88			70 (74)	130 (110)	
	Acetone	100	90.4	ug/L	90			40 (60)	160 (125)	
	Carbon disulfide	20	16.7	ug/L	84			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			70 (78)	130 (114)	
	Methyl Acetate	20	19.3	ug/L	97			70 (67)	130 (125)	
	Methylene Chloride	20	17.7	ug/L	89			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.6	ug/L	88			70 (75)	130 (108)	
	1,1-Dichloroethane	20	17.8	ug/L	89			70 (78)	130 (112)	
	Cyclohexane	20	17.2	ug/L	86			70 (75)	130 (110)	
	2-Butanone	100	91.2	ug/L	91			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.8	ug/L	94			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	17.5	ug/L	88			70 (77)	130 (110)	
	Bromochloromethane	20	20.1	ug/L	101			70 (70)	130 (124)	
	Chloroform	20	18.3	ug/L	92			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	18.0	ug/L	90			70 (80)	130 (108)	
	Methylcyclohexane	20	17.7	ug/L	89			70 (72)	130 (115)	
	Benzene	20	18.0	ug/L	90			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.7	ug/L	94			70 (80)	130 (115)	
	Trichloroethene	20	18.0	ug/L	90			70 (77)	130 (113)	
	1,2-Dichloropropane	20	18.2	ug/L	91			70 (83)	130 (111)	
	Bromodichloromethane	20	18.2	ug/L	91			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	94.1	ug/L	94			40 (74)	160 (118)	
	Toluene	20	17.8	ug/L	89			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	16.9	ug/L	85			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.6	ug/L	93			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	18.2	ug/L	91			70 (83)	130 (112)	
	2-Hexanone	100	91.7	ug/L	92			40 (73)	160 (117)	
	Dibromochloromethane	20	18.6	ug/L	93			70 (82)	130 (110)	
	1,2-Dibromoethane	20	18.3	ug/L	92			70 (81)	130 (110)	
	Tetrachloroethene	20	19.3	ug/L	97			70 (67)	130 (123)	
	Chlorobenzene	20	18.2	ug/L	91			70 (82)	130 (109)	
	Ethyl Benzene	20	18.2	ug/L	91			70 (83)	130 (109)	
	m/p-Xylenes	40	36.2	ug/L	91			70 (82)	130 (110)	
	o-Xylene	20	18.3	ug/L	92			70 (83)	130 (109)	
	Styrene	20	18.3	ug/L	92			70 (80)	130 (111)	
	Bromoform	20	18.4	ug/L	92			70 (79)	130 (109)	
	Isopropylbenzene	20	17.8	ug/L	89			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	17.6	ug/L	88			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	17.3	ug/L	86			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	16.9	ug/L	85			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.5	ug/L	88			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045617.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0407WBS01	1,2-Dibromo-3-Chloropropane	20	17.8	ug/L	89			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	16.4	ug/L	82			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	16.6	ug/L	83			70 (76)	130 (114)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045618.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0407WBSD01	Dichlorodifluoromethane	20	20.2	ug/L	101	2		40 (69)	160 (116)	20 (20)
	Chloromethane	20	18.4	ug/L	92	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.6	ug/L	93	3		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.4	ug/L	92	4		40 (58)	160 (125)	20 (20)
	Chloroethane	20	19.3	ug/L	97	1		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.4	ug/L	97	4		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/L	99	6		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	18.9	ug/L	95	8		70 (74)	130 (110)	20 (20)
	Acetone	100	97.2	ug/L	97	7		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.6	ug/L	88	5		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.4	ug/L	97	10		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	21.5	ug/L	108	11		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.4	ug/L	97	9		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.5	ug/L	93	6		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	18.7	ug/L	94	5		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.5	ug/L	93	8		70 (75)	130 (110)	20 (20)
	2-Butanone	100	100	ug/L	100	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.8	ug/L	99	5		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	18.6	ug/L	93	6		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	20.0	ug/L	100	1		70 (70)	130 (124)	20 (20)
	Chloroform	20	19.5	ug/L	98	6		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.2	ug/L	96	6		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	20.0	ug/L	100	12		70 (72)	130 (115)	20 (20)
	Benzene	20	19.2	ug/L	96	6		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.3	ug/L	102	8		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.2	ug/L	96	6		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.0	ug/L	100	9		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.1	ug/L	101	10		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	16		40 (74)	160 (118)	20 (20)
	Toluene	20	19.4	ug/L	97	9		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.2	ug/L	96	12		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.1	ug/L	101	8		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	20.2	ug/L	101	10		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	18		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	20.8	ug/L	104	11		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	20.2	ug/L	101	9		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	20.1	ug/L	101	4		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.6	ug/L	98	7		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.4	ug/L	97	6		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	39.9	ug/L	100	9		70 (82)	130 (110)	20 (20)
	o-Xylene	20	19.8	ug/L	99	7		70 (83)	130 (109)	20 (20)
	Styrene	20	19.7	ug/L	99	7		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.1	ug/L	101	9		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.1	ug/L	96	8		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97	10		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.1	ug/L	96	11		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	18.6	ug/L	93	9		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	18.9	ug/L	95	8		70 (82)	130 (109)	20 (20)

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045618.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0407WBSD01	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103	15		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.2	ug/L	91	10		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	18.2	ug/L	91	9		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045638.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0408WBS01	Dichlorodifluoromethane	20	18.9	ug/L	95			40 (69)	160 (116)	
	Chloromethane	20	16.8	ug/L	84			40 (65)	160 (116)	
	Vinyl chloride	20	17.3	ug/L	86			70 (65)	130 (117)	
	Bromomethane	20	16.2	ug/L	81			40 (58)	160 (125)	
	Chloroethane	20	18.2	ug/L	91			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.1	ug/L	91			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.2	ug/L	86			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	16.2	ug/L	81			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	16.9	ug/L	85			70 (78)	130 (114)	
	Methyl Acetate	20	18.6	ug/L	93			70 (67)	130 (125)	
	Methylene Chloride	20	16.9	ug/L	85			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	16.7	ug/L	84			70 (75)	130 (108)	
	1,1-Dichloroethane	20	16.9	ug/L	85			70 (78)	130 (112)	
	Cyclohexane	20	16.8	ug/L	84			70 (75)	130 (110)	
	2-Butanone	100	92.0	ug/L	92			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.5	ug/L	93			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	16.9	ug/L	85			70 (77)	130 (110)	
	Bromochloromethane	20	17.2	ug/L	86			70 (70)	130 (124)	
	Chloroform	20	17.6	ug/L	88			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	17.1	ug/L	86			70 (80)	130 (108)	
	Methylcyclohexane	20	18.7	ug/L	94			70 (72)	130 (115)	
	Benzene	20	17.6	ug/L	88			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.2	ug/L	91			70 (80)	130 (115)	
	Trichloroethene	20	17.6	ug/L	88			70 (77)	130 (113)	
	1,2-Dichloropropane	20	17.6	ug/L	88			70 (83)	130 (111)	
	Bromodichloromethane	20	18.2	ug/L	91			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	90.9	ug/L	91			40 (74)	160 (118)	
	Toluene	20	17.4	ug/L	87			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	16.8	ug/L	84			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.1	ug/L	91			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	18.0	ug/L	90			70 (83)	130 (112)	
	2-Hexanone	100	90.9	ug/L	91			40 (73)	160 (117)	
	Dibromochloromethane	20	18.2	ug/L	91			70 (82)	130 (110)	
	1,2-Dibromoethane	20	18.0	ug/L	90			70 (81)	130 (110)	
	Tetrachloroethene	20	17.8	ug/L	89			70 (67)	130 (123)	
	Chlorobenzene	20	17.9	ug/L	90			70 (82)	130 (109)	
	Ethyl Benzene	20	17.9	ug/L	90			70 (83)	130 (109)	
	m/p-Xylenes	40	36.8	ug/L	92			70 (82)	130 (110)	
	o-Xylene	20	18.2	ug/L	91			70 (83)	130 (109)	
	Styrene	20	18.3	ug/L	92			70 (80)	130 (111)	
	Bromoform	20	17.5	ug/L	88			70 (79)	130 (109)	
	Isopropylbenzene	20	18.0	ug/L	90			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	17.1	ug/L	86			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.0	ug/L	90			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	17.5	ug/L	88			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	17.7	ug/L	89			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045638.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0408WBS01	1,2-Dibromo-3-Chloropropane	20	17.7	ug/L	89			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	17.1	ug/L	86			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	17.1	ug/L	86			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021828.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0410SBS01	Dichlorodifluoromethane	20	18.4	ug/Kg	92			40 (64)	160 (136)	
	Chloromethane	20	19.9	ug/Kg	100			40 (70)	160 (130)	
	Vinyl chloride	20	19.2	ug/Kg	96			70 (72)	130 (129)	
	Bromomethane	20	19.0	ug/Kg	95			40 (58)	160 (141)	
	Chloroethane	20	19.3	ug/Kg	97			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.0	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	92.0	ug/Kg	92			40 (60)	160 (131)	
	Carbon disulfide	20	18.6	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	17.4	ug/Kg	87			70 (77)	130 (129)	
	Methyl Acetate	20	18.0	ug/Kg	90			70 (69)	130 (149)	
	Methylene Chloride	20	20.7	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			70 (82)	130 (123)	
	Cyclohexane	20	18.4	ug/Kg	92			70 (76)	130 (122)	
	2-Butanone	100	87.3	ug/Kg	87			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.6	ug/Kg	103			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	Bromochloromethane	20	19.5	ug/Kg	98			70 (80)	130 (127)	
	Chloroform	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	19.6	ug/Kg	98			70 (77)	130 (123)	
	Benzene	20	20.4	ug/Kg	102			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			70 (81)	130 (126)	
	Trichloroethene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	Bromodichloromethane	20	20.4	ug/Kg	102			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	85.8	ug/Kg	86			40 (70)	160 (135)	
	Toluene	20	21.0	ug/Kg	105			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	2-Hexanone	100	86.4	ug/Kg	86			40 (66)	160 (138)	
	Dibromochloromethane	20	20.1	ug/Kg	101			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	20.9	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (122)	
	Ethyl Benzene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	42.1	ug/Kg	105			70 (83)	130 (124)	
	o-Xylene	20	20.4	ug/Kg	102			70 (83)	130 (123)	
	Styrene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	Bromoform	20	19.5	ug/Kg	98			70 (75)	130 (127)	
	Isopropylbenzene	20	19.7	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/Kg	91			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021828.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0410SBS01	1,2-Dibromo-3-Chloropropane	20	17.6	ug/Kg	88			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.6	ug/Kg	98			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021829.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0410SBSD01	Dichlorodifluoromethane	20	18.2	ug/Kg	91	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.7	ug/Kg	99	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.6	ug/Kg	93	3		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.7	ug/Kg	94	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.1	ug/Kg	96	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.3	ug/Kg	97	0		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100	3		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	18.8	ug/Kg	94	6		70 (79)	130 (121)	30 (20)
	Acetone	100	94.7	ug/Kg	95	3		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.3	ug/Kg	92	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	18.7	ug/Kg	94	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.8	ug/Kg	104	14		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.0	ug/Kg	100	4		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.3	ug/Kg	97	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.9	ug/Kg	100	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.1	ug/Kg	91	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	92.4	ug/Kg	92	6		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.1	ug/Kg	101	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.3	ug/Kg	97	2		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	19.3	ug/Kg	97	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.1	ug/Kg	101	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99	2		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.1	ug/Kg	96	2		70 (77)	130 (123)	30 (20)
	Benzene	20	20.3	ug/Kg	102	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.0	ug/Kg	100	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.5	ug/Kg	103	0		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.3	ug/Kg	102	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.6	ug/Kg	103	1		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	96.0	ug/Kg	96	11		40 (70)	160 (135)	30 (20)
	Toluene	20	20.7	ug/Kg	104	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.1	ug/Kg	96	2		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	94.7	ug/Kg	95	10		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.8	ug/Kg	104	3		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	19.9	ug/Kg	100	0		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.6	ug/Kg	103	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.1	ug/Kg	101	2		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.9	ug/Kg	100	3		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.6	ug/Kg	102	3		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.2	ug/Kg	101	1		70 (83)	130 (123)	30 (20)
	Styrene	20	20.3	ug/Kg	102	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.2	ug/Kg	101	3		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.1	ug/Kg	96	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	18.6	ug/Kg	93	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100	3		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.1	ug/Kg	101	2		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101	1		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021829.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0410SBSD01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/Kg	98	11		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	21.0	ug/Kg	105	7		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0407WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045616.D Lab Sample ID: VX0407WBL01

Date Analyzed: 04/07/2025 Time Analyzed: 10:11

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0407WBS01	VX0407WBS01	VX045617.D	04/07/2025
VX0407WBSD01	VX0407WBSD01	VX045618.D	04/07/2025
TB-2025-4-7	Q1746-08	VX045629.D	04/07/2025
B-158-GW01	Q1746-05	VX045631.D	04/07/2025
B-149-GW01	Q1746-06	VX045632.D	04/07/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0408WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045637.D Lab Sample ID: VX0408WBL01

Date Analyzed: 04/08/2025 Time Analyzed: 09:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025
EB-2025-4-7	Q1746-07	VX045641.D	04/08/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0410SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VY021827.D Lab Sample ID: VY0410SBL01

Date Analyzed: 04/10/2025 Time Analyzed: 10:28

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0410SBS01	VY0410SBS01	VY021828.D	04/10/2025
VY0410SBSD01	VY0410SBSD01	VY021829.D	04/10/2025
B-149-SB01	Q1746-01	VY021833.D	04/10/2025
B-149-SB02	Q1746-03	VY021834.D	04/10/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045524.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_X BFB Injection Time: 16:15

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045613.D BFB Injection Date: 04/07/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:34

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	67.9
175	5.0 - 9.0% of mass 174	5.4 (8) 1
176	95.0 - 101.0% of mass 174	67.3 (99.2) 1
177	5.0 - 9.0% of mass 176	4.1 (6.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045614.D	04/07/2025	09:17
VX0407WBL01	VX0407WBL01	VX045616.D	04/07/2025	10:11
VX0407WBS01	VX0407WBS01	VX045617.D	04/07/2025	10:34
VX0407WBSD01	VX0407WBSD01	VX045618.D	04/07/2025	11:00
TB-2025-4-7	Q1746-08	VX045629.D	04/07/2025	15:21
B-158-GW01	Q1746-05	VX045631.D	04/07/2025	16:08
B-149-GW01	Q1746-06	VX045632.D	04/07/2025	16:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045634.D BFB Injection Date: 04/08/2025

Instrument ID: MSVOA_X BFB Injection Time: 07:49

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.9
175	5.0 - 9.0% of mass 174	5.2 (7.7) 1
176	95.0 - 101.0% of mass 174	63.8 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045635.D	04/08/2025	08:24
VX0408WBL01	VX0408WBL01	VX045637.D	04/08/2025	09:12
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025	09:43
EB-2025-4-7	Q1746-07	VX045641.D	04/08/2025	10:55

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VY021655.D BFB Injection Date: 03/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:23

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.7 (2) 1
174	50.0 - 100.0% of mass 95	86.7
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.9 (95.6) 1
177	5.0 - 9.0% of mass 176	5.6 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY021656.D	03/27/2025	10:08
VSTDICC010	VSTDICC010	VY021657.D	03/27/2025	10:31
VSTDICC020	VSTDICC020	VY021658.D	03/27/2025	10:54
VSTDICCC050	VSTDICCC050	VY021659.D	03/27/2025	11:16
VSTDICC100	VSTDICC100	VY021660.D	03/27/2025	11:39
VSTDICC150	VSTDICC150	VY021661.D	03/27/2025	12:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VY021825.D BFB Injection Date: 04/10/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	54.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6.7 (8.2) 1
176	95.0 - 101.0% of mass 174	78.2 (95.7) 1
177	5.0 - 9.0% of mass 176	5.1 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021826.D	04/10/2025	09:51
VY0410SBL01	VY0410SBL01	VY021827.D	04/10/2025	10:28
VY0410SBS01	VY0410SBS01	VY021828.D	04/10/2025	10:59
VY0410SBSD01	VY0410SBSD01	VY021829.D	04/10/2025	11:22
B-149-SB01	Q1746-01	VY021833.D	04/10/2025	13:16
B-149-SB02	Q1746-03	VY021834.D	04/10/2025	13:40

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045614.D Date Analyzed: 04/07/2025

Instrument ID: MSVOA_X Time Analyzed: 09:17

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	104243	5.54	177492	6.75	157116	10.05
UPPER LIMIT	208486	6.038	354984	7.251	314232	10.549
LOWER LIMIT	52121.5	5.038	88746	6.251	78558	9.549
EPA SAMPLE NO.						
B-158-GW01	60555	5.55	119845	6.76	111495	10.05
B-149-GW01	67663	5.55	133111	6.76	120863	10.05
TB-2025-4-7	64229	5.55	130025	6.76	121327	10.05
VX0407WBL01	67505	5.54	132975	6.76	123601	10.05
VX0407WBS01	89694	5.54	158717	6.76	138981	10.05
VX0407WBSD01	93507	5.54	162585	6.76	145391	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045614.D Date Analyzed: 04/07/2025

Instrument ID: MSVOA_X Time Analyzed: 09:17

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	73594	12.018				
UPPER LIMIT	147188	12.518				
LOWER LIMIT	36797	11.518				
EPA SAMPLE NO.						
B-158-GW01	47595	12.02				
B-149-GW01	48275	12.02				
TB-2025-4-7	49684	12.02				
VX0407WBL01	49926	12.02				
VX0407WBS01	64861	12.02				
VX0407WBSD01	67274	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045635.D Date Analyzed: 04/08/2025

Instrument ID: MSVOA_X Time Analyzed: 08:24

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	102556	5.54	175513	6.75	152677	10.05
UPPER LIMIT	205112	6.038	351026	7.251	305354	10.549
LOWER LIMIT	51278	5.038	87756.5	6.251	76338.5	9.549
EPA SAMPLE NO.						
EB-2025-4-7	65792	5.54	130088	6.76	121595	10.05
VX0408WBL01	66539	5.55	129800	6.76	123174	10.05
VX0408WBS01	106087	5.54	183473	6.75	162323	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045635.D Date Analyzed: 04/08/2025

Instrument ID: MSVOA_X Time Analyzed: 08:24

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	73644	12.018				
UPPER LIMIT	147288	12.518				
LOWER LIMIT	36822	11.518				
EPA SAMPLE NO.						
EB-2025-4-7	51094	12.02				
VX0408WBL01	51559	12.02				
VX0408WBS01	74710	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VY021826.D Date Analyzed: 04/10/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:51

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	208417	7.71	315600	8.62	284701	11.42
UPPER LIMIT	416834	8.213	631200	9.122	569402	11.92
LOWER LIMIT	104209	7.213	157800	8.122	142351	10.92
EPA SAMPLE NO.						
B-149-SB01	216986	7.71	393099	8.62	299518	11.42
B-149-SB02	219270	7.71	400432	8.62	325268	11.42
VY0410SBL01	241941	7.71	436661	8.62	362482	11.42
VY0410SBS01	202932	7.71	310477	8.62	276303	11.42
VY0410SBSD01	207811	7.71	318832	8.62	284393	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VY021826.D Date Analyzed: 04/10/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:51

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	147243	13.353				
UPPER LIMIT	294486	13.853				
LOWER LIMIT	73621.5	12.853				
EPA SAMPLE NO.						
B-149-SB01	79360	13.35				
B-149-SB02	109046	13.35				
VY0410SBL01	131635	13.35				
VY0410SBS01	144045	13.35				
VY0410SBSD01	148690	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Raw Data: **VX045616.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045616.D	1		04/07/25 10:11	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045616.D	1		04/07/25 10:11	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.0		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	67500	5.544			
540-36-3	1,4-Difluorobenzene	133000	6.757			
3114-55-4	Chlorobenzene-d5	124000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	49900	12.018			

Raw Data: **VX045616.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045616.D	1		04/07/25 10:11	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045637.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66500	5.549			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51600	12.018			

Raw Data: **VX045637.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Raw Data: **VY021827.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		70 (63) - 130 (155)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	48.5		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.3		70 (38) - 130 (136)	77%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	242000	7.713			
540-36-3	1,4-Difluorobenzene	437000	8.616			
3114-55-4	Chlorobenzene-d5	362000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.352			

Raw Data: **VY021827.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045617.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045617.D	1		04/07/25 10:34	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.8		0.22	1.00	ug/L
74-87-3	Chloromethane	17.5		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.0		0.26	1.00	ug/L
74-83-9	Bromomethane	17.6		1.40	5.00	ug/L
75-00-3	Chloroethane	19.5		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.5		0.23	1.00	ug/L
67-64-1	Acetone	90.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.7		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.6		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.7		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.6		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.8		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.50	5.00	ug/L
78-93-3	2-Butanone	91.2		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	20.1		0.22	1.00	ug/L
67-66-3	Chloroform	18.3		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.0		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.7		0.16	1.00	ug/L
71-43-2	Benzene	18.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.0		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.2		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.2		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.1		0.68	5.00	ug/L
108-88-3	Toluene	17.8		0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045617.D	1		04/07/25 10:34	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.9		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	91.7		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.2		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	36.2		0.24	2.00	ug/L
95-47-6	o-Xylene	18.3		0.12	1.00	ug/L
100-42-5	Styrene	18.3		0.15	1.00	ug/L
75-25-2	Bromoform	18.4		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	17.8		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.6		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.9		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.5		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.4		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.6		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		70 (77) - 130 (121)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	89700	5.544			
540-36-3	1,4-Difluorobenzene	159000	6.757			
3114-55-4	Chlorobenzene-d5	139000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	64900	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045617.D	1		04/07/25 10:34	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045638.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045638.D	1		04/08/25 09:43	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.9		0.22	1.00	ug/L
74-87-3	Chloromethane	16.8		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	17.3		0.26	1.00	ug/L
74-83-9	Bromomethane	16.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.2		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.2		0.23	1.00	ug/L
67-64-1	Acetone	100		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.2		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	16.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.6		0.27	1.00	ug/L
75-09-2	Methylene Chloride	16.9		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.7		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	16.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.8		1.50	5.00	ug/L
78-93-3	2-Butanone	92.0		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.9		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.2		0.22	1.00	ug/L
67-66-3	Chloroform	17.6		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.1		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.16	1.00	ug/L
71-43-2	Benzene	17.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.6		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.2		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.9		0.68	5.00	ug/L
108-88-3	Toluene	17.4		0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045638.D	1		04/08/25 09:43	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	16.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.1		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.0		0.21	1.00	ug/L
591-78-6	2-Hexanone	90.9		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.0		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	17.8		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.9		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	17.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	36.8		0.24	2.00	ug/L
95-47-6	o-Xylene	18.2		0.12	1.00	ug/L
100-42-5	Styrene	18.3		0.15	1.00	ug/L
75-25-2	Bromoform	17.5		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	18.0		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.1		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.0		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.5		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.1		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.1		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		70 (74) - 130 (125)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	5.538			
540-36-3	1,4-Difluorobenzene	183000	6.751			
3114-55-4	Chlorobenzene-d5	162000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	74700	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0408WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045638.D	1		04/08/25 09:43	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VY021828.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.9		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.0		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.0		1.00	5.00	ug/Kg
67-64-1	Acetone	92.0		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.4		0.79	5.00	ug/Kg
78-93-3	2-Butanone	87.3		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	85.8		3.60	25.0	ug/Kg
108-88-3	Toluene	21.0		0.78	5.00	ug/Kg

Raw Data: **VY021828.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.0		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	86.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.1		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.4		0.82	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.6		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		70 (70) - 130 (134)	107%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (74) - 130 (123)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (38) - 130 (136)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	7.713			
540-36-3	1,4-Difluorobenzene	310000	8.616			
3114-55-4	Chlorobenzene-d5	276000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.353			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBSD01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045618.D	1		04/07/25 11:00	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.22	1.00	ug/L
74-87-3	Chloromethane	18.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.26	1.00	ug/L
74-83-9	Bromomethane	18.4		1.40	5.00	ug/L
75-00-3	Chloroethane	19.3		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.9		0.23	1.00	ug/L
67-64-1	Acetone	97.2		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	17.6		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.4		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.5		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	20.0		0.22	1.00	ug/L
67-66-3	Chloroform	19.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	20.0		0.16	1.00	ug/L
71-43-2	Benzene	19.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.0		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	19.4		0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBSD01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045618.D	1		04/07/25 11:00	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.2		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.9		0.24	2.00	ug/L
95-47-6	o-Xylene	19.8		0.12	1.00	ug/L
100-42-5	Styrene	19.7		0.15	1.00	ug/L
75-25-2	Bromoform	20.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.1		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.4		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.6		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.2		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.2		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93500	5.544			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	145000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	67300	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0407WBSD01	SDG No.:	Q1746
Lab Sample ID:	VX0407WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045618.D	1		04/07/25 11:00	VX040725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.8		1.00	5.00	ug/Kg
67-64-1	Acetone	94.7		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.7		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.3		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.9		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	92.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	94.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.9		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (63) - 130 (155)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (38) - 130 (136)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.707			
540-36-3	1,4-Difluorobenzene	319000	8.615			
3114-55-4	Chlorobenzene-d5	284000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	149000	13.346			

Raw Data: **VY021829.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1746
Lab Sample ID:	VY0410SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.1
Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.1
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.2
Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.3
Trichlorofluoromethane	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.2
1,1,2-Trichlorotrifluoroethane	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.7
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.3
Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.2
Methyl tert-butyl Ether	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.2
Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.2
Methylene Chloride	0.692	0.695	0.726	0.709	0.705	0.690	0.703	2
trans-1,2-Dichloroethene	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.9
1,1-Dichloroethane	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3
Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5
cis-1,2-Dichloroethene	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.4
Bromochloromethane	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.2
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6
1,1,1-Trichloroethane	1.028	1.052	1.120	1.109	1.153	1.167	1.105	5
Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.8
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
1,2-Dichloropropane	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.8
Bromodichloromethane	0.521	0.519	0.576	0.572	0.587	0.583	0.560	5.6
4-Methyl-2-Pentanone	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.6
Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.3
cis-1,3-Dichloropropene	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.9
1,1,2-Trichloroethane	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.1
2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.1
Dibromochloromethane	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.1
1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.1
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.9
m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.9
o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.2
Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.8
Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.1
Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.2
1,1,2,2-Tetrachloroethane	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.4
1,3-Dichlorobenzene	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.7
1,4-Dichlorobenzene	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.1
1,2-Dichlorobenzene	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.3
1,2-Dibromo-3-Chloropropane	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.4
1,2,4-Trichlorobenzene	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.1
1,2,3-Trichlorobenzene	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.6
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.602	0.577	0.493	0.506	0.485	0.447	0.518	11.4
Chloromethane	0.876	0.775	0.713	0.692	0.672	0.644	0.729	11.6
Vinyl Chloride	0.977	0.886	0.810	0.800	0.758	0.714	0.824	11.5
Bromomethane	0.709	0.613	0.537	0.513	0.494	0.506	0.562	14.9
Chloroethane	0.644	0.570	0.544	0.512	0.490	0.476	0.539	11.5
Trichlorofluoromethane	1.212	1.124	1.104	1.013	0.967	0.914	1.056	10.5
1,1,2-Trichlorotrifluoroethane	0.668	0.601	0.553	0.536	0.510	0.473	0.557	12.4
1,1-Dichloroethene	0.589	0.564	0.508	0.514	0.496	0.477	0.524	8.2
Acetone	0.145	0.123	0.102	0.107	0.087	0.102	0.111	18.3
Carbon Disulfide	1.956	1.828	1.709	1.696	1.623	1.552	1.727	8.4
Methyl tert-butyl Ether	1.380	1.335	1.247	1.325	1.256	1.292	1.306	3.9
Methyl Acetate	0.329	0.286	0.269	0.265	0.243	0.257	0.275	11
Methylene Chloride	0.870	0.694	0.594	0.564	0.518	0.514	0.626	21.8
trans-1,2-Dichloroethene	0.634	0.608	0.568	0.567	0.551	0.536	0.577	6.3
1,1-Dichloroethane	1.178	1.091	1.024	1.040	0.992	0.968	1.049	7.3
Cyclohexane	1.170	1.032	0.912	0.918	0.886	0.818	0.956	13.1
2-Butanone	0.181	0.166	0.149	0.159	0.140	0.155	0.158	8.9
Carbon Tetrachloride	0.637	0.594	0.546	0.564	0.547	0.507	0.566	7.9
cis-1,2-Dichloroethene	0.700	0.658	0.626	0.652	0.631	0.629	0.649	4.3
Bromochloromethane	0.513	0.470	0.424	0.426	0.420	0.402	0.442	9.3
Chloroform	1.235	1.141	1.062	1.081	1.026	1.000	1.091	7.9
1,1,1-Trichloroethane	1.155	1.013	0.959	0.967	0.929	0.893	0.986	9.3
Methylcyclohexane	0.593	0.599	0.569	0.619	0.612	0.550	0.590	4.5
Benzene	1.606	1.527	1.429	1.499	1.445	1.371	1.479	5.6
1,2-Dichloroethane	0.467	0.445	0.399	0.420	0.392	0.379	0.417	8.1
Trichloroethene	0.412	0.398	0.362	0.374	0.366	0.348	0.377	6.4
1,2-Dichloropropane	0.383	0.366	0.334	0.353	0.340	0.325	0.350	6.2
Bromodichloromethane	0.571	0.546	0.504	0.525	0.508	0.484	0.523	6
4-Methyl-2-Pentanone	0.232	0.240	0.219	0.241	0.222	0.226	0.230	3.9
Toluene	0.940	0.943	0.893	0.951	0.928	0.885	0.923	3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.456	0.470	0.439	0.486	0.475	0.461	0.465	3.5
cis-1,3-Dichloropropene	0.553	0.558	0.528	0.565	0.549	0.534	0.548	2.6
1,1,2-Trichloroethane	0.280	0.283	0.249	0.261	0.247	0.240	0.260	6.9
2-Hexanone	0.154	0.154	0.144	0.164	0.148	0.154	0.153	4.2
Dibromochloromethane	0.371	0.367	0.340	0.364	0.348	0.337	0.355	4.1
1,2-Dibromoethane	0.267	0.250	0.230	0.254	0.233	0.229	0.244	6.3
Tetrachloroethene	0.534	0.503	0.453	0.449	0.412	0.382	0.455	12.3
Chlorobenzene	1.244	1.178	1.110	1.155	1.116	1.073	1.146	5.3
Ethyl Benzene	1.949	1.916	1.918	2.051	2.023	1.935	1.965	2.9
m/p-Xylenes	0.726	0.753	0.744	0.787	0.774	0.731	0.753	3.2
o-Xylene	0.665	0.670	0.676	0.738	0.725	0.694	0.695	4.4
Styrene	1.064	1.110	1.134	1.232	1.229	1.181	1.158	5.8
Bromoform	0.241	0.239	0.229	0.237	0.225	0.221	0.232	3.4
Isopropylbenzene	3.628	3.701	3.582	3.826	3.843	3.702	3.714	2.8
1,1,2,2-Tetrachloroethane	0.764	0.720	0.616	0.657	0.619	0.631	0.668	9.1
1,3-Dichlorobenzene	1.895	1.774	1.707	1.748	1.728	1.689	1.757	4.2
1,4-Dichlorobenzene	1.876	1.794	1.704	1.741	1.673	1.626	1.736	5.2
1,2-Dichlorobenzene	1.598	1.607	1.496	1.524	1.486	1.465	1.529	3.9
1,2-Dibromo-3-Chloropropane	0.112	0.111	0.097	0.102	0.096	0.102	0.103	6.6
1,2,4-Trichlorobenzene	0.771	0.781	0.787	0.878	0.870	0.889	0.829	6.6
1,2,3-Trichlorobenzene	0.653	0.681	0.673	0.746	0.737	0.753	0.707	6.1
1,2-Dichloroethane-d4	0.612	0.559	0.502	0.548	0.510	0.520	0.542	7.5
Dibromofluoromethane	0.357	0.321	0.290	0.339	0.325	0.313	0.324	7
Toluene-d8	1.277	1.240	1.127	1.306	1.252	1.201	1.234	5.1
4-Bromofluorobenzene	0.447	0.410	0.378	0.439	0.424	0.407	0.417	6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/07/2025 09:17

Lab File ID: VX045614.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.748	0.831		11.1	20
Chloromethane	0.768	0.766	0.1	-0.26	20
Vinyl Chloride	0.703	0.707		0.57	20
Bromomethane	0.333	0.313		-6.01	20
Chloroethane	0.373	0.377		1.07	20
Trichlorofluoromethane	1.048	1.067		1.81	20
1,1,2-Trichlorotrifluoroethane	0.614	0.640		4.24	20
1,1-Dichloroethene	0.600	0.585		-2.5	20
Acetone	0.375	0.452		20.53	20
Carbon Disulfide	1.483	1.472		-0.74	20
Methyl tert-butyl Ether	2.100	2.074		-1.24	20
Methyl Acetate	0.864	0.870		0.69	20
Methylene Chloride	0.703	0.671		-4.55	20
trans-1,2-Dichloroethene	0.613	0.591		-3.59	20
1,1-Dichloroethane	1.269	1.210	0.1	-4.65	20
Cyclohexane	1.122	1.080		-3.74	20
2-Butanone	0.550	0.578		5.09	20
Carbon Tetrachloride	0.518	0.538		3.86	20
cis-1,2-Dichloroethene	0.747	0.708		-5.22	20
Bromochloromethane	0.613	0.575		-6.2	20
Chloroform	1.306	1.259		-3.6	20
1,1,1-Trichloroethane	1.105	1.091		-1.27	20
Methylcyclohexane	0.587	0.628		6.99	20
Benzene	1.463	1.436		-1.85	20
1,2-Dichloroethane	0.604	0.605		0.17	20
Trichloroethene	0.348	0.346		-0.57	20
1,2-Dichloropropane	0.365	0.363		-0.55	20
Bromodichloromethane	0.560	0.581		3.75	20
4-Methyl-2-Pentanone	0.606	0.625		3.13	20
Toluene	0.885	0.881		-0.45	20
t-1,3-Dichloropropene	0.467	0.524		12.21	20
cis-1,3-Dichloropropene	0.526	0.578		9.89	20
1,1,2-Trichloroethane	0.353	0.349		-1.13	20
2-Hexanone	0.449	0.466		3.79	20
Dibromochloromethane	0.385	0.410		6.49	20
1,2-Dibromoethane	0.357	0.366		2.52	20
Tetrachloroethene	0.353	0.360		1.98	20
Chlorobenzene	1.068	1.067	0.3	-0.09	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/07/2025 09:17

Lab File ID: VX045614.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.914	1.954		2.09	20
m/p-Xylenes	0.696	0.718		3.16	20
o-Xylene	0.686	0.706		2.91	20
Styrene	1.132	1.199		5.92	20
Bromoform	0.277	0.297	0.1	7.22	20
Isopropylbenzene	4.005	4.042		0.92	20
1,1,2,2-Tetrachloroethane	1.407	1.289	0.3	-8.39	20
1,3-Dichlorobenzene	1.684	1.681		-0.18	20
1,4-Dichlorobenzene	1.708	1.647		-3.57	20
1,2-Dichlorobenzene	1.675	1.648		-1.61	20
1,2-Dibromo-3-Chloropropane	0.294	0.311		5.78	20
1,2,4-Trichlorobenzene	0.932	0.991		6.33	20
1,2,3-Trichlorobenzene	0.976	1.015		4	20
1,2-Dichloroethane-d4	0.914	0.904		-1.09	20
Dibromofluoromethane	0.355	0.366		3.1	20
Toluene-d8	1.238	1.255		1.37	20
4-Bromofluorobenzene	0.451	0.480		6.43	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/08/2025 08:24

Lab File ID: VX045635.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.748	0.803		7.35	20
Chloromethane	0.768	0.726	0.1	-5.47	20
Vinyl Chloride	0.703	0.685		-2.56	20
Bromomethane	0.333	0.308		-7.51	20
Chloroethane	0.373	0.385		3.22	20
Trichlorofluoromethane	1.048	1.069		2	20
1,1,2-Trichlorotrifluoroethane	0.614	0.634		3.26	20
1,1-Dichloroethene	0.600	0.591		-1.5	20
Acetone	0.375	0.439		17.07	20
Carbon Disulfide	1.483	1.421		-4.18	20
Methyl tert-butyl Ether	2.100	2.026		-3.52	20
Methyl Acetate	0.864	0.892		3.24	20
Methylene Chloride	0.703	0.663		-5.69	20
trans-1,2-Dichloroethene	0.613	0.583		-4.89	20
1,1-Dichloroethane	1.269	1.210	0.1	-4.65	20
Cyclohexane	1.122	1.066		-4.99	20
2-Butanone	0.550	0.562		2.18	20
Carbon Tetrachloride	0.518	0.541		4.44	20
cis-1,2-Dichloroethene	0.747	0.702		-6.02	20
Bromochloromethane	0.613	0.603		-1.63	20
Chloroform	1.306	1.256		-3.83	20
1,1,1-Trichloroethane	1.105	1.080		-2.26	20
Methylcyclohexane	0.587	0.616		4.94	20
Benzene	1.463	1.424		-2.67	20
1,2-Dichloroethane	0.604	0.606		0.33	20
Trichloroethene	0.348	0.339		-2.59	20
1,2-Dichloropropane	0.365	0.359		-1.64	20
Bromodichloromethane	0.560	0.571		1.96	20
4-Methyl-2-Pentanone	0.606	0.614		1.32	20
Toluene	0.885	0.857		-3.16	20
t-1,3-Dichloropropene	0.467	0.506		8.35	20
cis-1,3-Dichloropropene	0.526	0.557		5.89	20
1,1,2-Trichloroethane	0.353	0.344		-2.55	20
2-Hexanone	0.449	0.458		2	20
Dibromochloromethane	0.385	0.403		4.68	20
1,2-Dibromoethane	0.357	0.357		0	20
Tetrachloroethene	0.353	0.350		-0.85	20
Chlorobenzene	1.068	1.057	0.3	-1.03	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/08/2025 08:24

Lab File ID: VX045635.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.914	1.939		1.31	20
m/p-Xylenes	0.696	0.706		1.44	20
o-Xylene	0.686	0.688		0.29	20
Styrene	1.132	1.173		3.62	20
Bromoform	0.277	0.296	0.1	6.86	20
Isopropylbenzene	4.005	3.896		-2.72	20
1,1,2,2-Tetrachloroethane	1.407	1.242	0.3	-11.73	20
1,3-Dichlorobenzene	1.684	1.602		-4.87	20
1,4-Dichlorobenzene	1.708	1.593		-6.73	20
1,2-Dichlorobenzene	1.675	1.554		-7.22	20
1,2-Dibromo-3-Chloropropane	0.294	0.291		-1.02	20
1,2,4-Trichlorobenzene	0.932	0.923		-0.97	20
1,2,3-Trichlorobenzene	0.976	0.932		-4.51	20
1,2-Dichloroethane-d4	0.914	0.864		-5.47	20
Dibromofluoromethane	0.355	0.347		-2.25	20
Toluene-d8	1.238	1.189		-3.96	20
4-Bromofluorobenzene	0.451	0.456		1.11	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_Y Calibration Date/Time: 04/10/2025 09:51

Lab File ID: VY021826.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.473		-8.69	20
Chloromethane	0.729	0.722	0.1	-0.96	20
Vinyl Chloride	0.824	0.777		-5.7	20
Bromomethane	0.562	0.510		-9.25	20
Chloroethane	0.539	0.515		-4.45	20
Trichlorofluoromethane	1.056	0.995		-5.78	20
1,1,2-Trichlorotrifluoroethane	0.557	0.548		-1.62	20
1,1-Dichloroethene	0.524	0.521		-0.57	20
Acetone	0.111	0.105		-5.41	20
Carbon Disulfide	1.727	1.642		-4.92	20
Methyl tert-butyl Ether	1.306	1.226		-6.13	20
Methyl Acetate	0.275	0.298		8.36	20
Methylene Chloride	0.626	0.577		-7.83	20
trans-1,2-Dichloroethene	0.577	0.585		1.39	20
1,1-Dichloroethane	1.049	1.074	0.1	2.38	20
Cyclohexane	0.956	0.885		-7.43	20
2-Butanone	0.158	0.140		-11.39	20
Carbon Tetrachloride	0.566	0.596		5.3	20
cis-1,2-Dichloroethene	0.649	0.671		3.39	20
Bromochloromethane	0.442	0.448		1.36	20
Chloroform	1.091	1.115		2.2	20
1,1,1-Trichloroethane	0.986	1.001		1.52	20
Methylcyclohexane	0.590	0.615		4.24	20
Benzene	1.479	1.589		7.44	20
1,2-Dichloroethane	0.417	0.422		1.2	20
Trichloroethene	0.377	0.407		7.96	20
1,2-Dichloropropane	0.350	0.377		7.71	20
Bromodichloromethane	0.523	0.551		5.35	20
4-Methyl-2-Pentanone	0.230	0.211		-8.26	20
Toluene	0.923	1.022		10.73	20
t-1,3-Dichloropropene	0.465	0.471		1.29	20
cis-1,3-Dichloropropene	0.548	0.564		2.92	20
1,1,2-Trichloroethane	0.260	0.265		1.92	20
2-Hexanone	0.153	0.145		-5.23	20
Dibromochloromethane	0.355	0.370		4.22	20
1,2-Dibromoethane	0.244	0.244		0	20
Tetrachloroethene	0.455	0.482		5.93	20
Chlorobenzene	1.146	1.216	0.3	6.11	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_Y Calibration Date/Time: 04/10/2025 09:51

Lab File ID: VY021826.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.965	2.166		10.23	20
m/p-Xylenes	0.753	0.846		12.35	20
o-Xylene	0.695	0.776		11.65	20
Styrene	1.158	1.305		12.69	20
Bromoform	0.232	0.227	0.1	-2.15	20
Isopropylbenzene	3.714	3.986		7.32	20
1,1,2,2-Tetrachloroethane	0.668	0.605	0.3	-9.43	20
1,3-Dichlorobenzene	1.757	1.868		6.32	20
1,4-Dichlorobenzene	1.736	1.812		4.38	20
1,2-Dichlorobenzene	1.529	1.605		4.97	20
1,2-Dibromo-3-Chloropropane	0.103	0.091		-11.65	20
1,2,4-Trichlorobenzene	0.829	0.913		10.13	20
1,2,3-Trichlorobenzene	0.707	0.777		9.9	20
1,2-Dichloroethane-d4	0.542	0.533		-1.66	20
Dibromofluoromethane	0.324	0.356		9.88	20
Toluene-d8	1.234	1.384		12.16	20
4-Bromofluorobenzene	0.417	0.462		10.79	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Time: Apr 11 01:50:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	216986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	393099	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	299518	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	79360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	120626	51.309	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.620%			
35) Dibromofluoromethane	7.634	113	134604	52.787	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.580%			
50) Toluene-d8	10.109	98	471962	48.652	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.300%			
62) 4-Bromofluorobenzene	12.408	95	99658	30.372	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 60.740%			

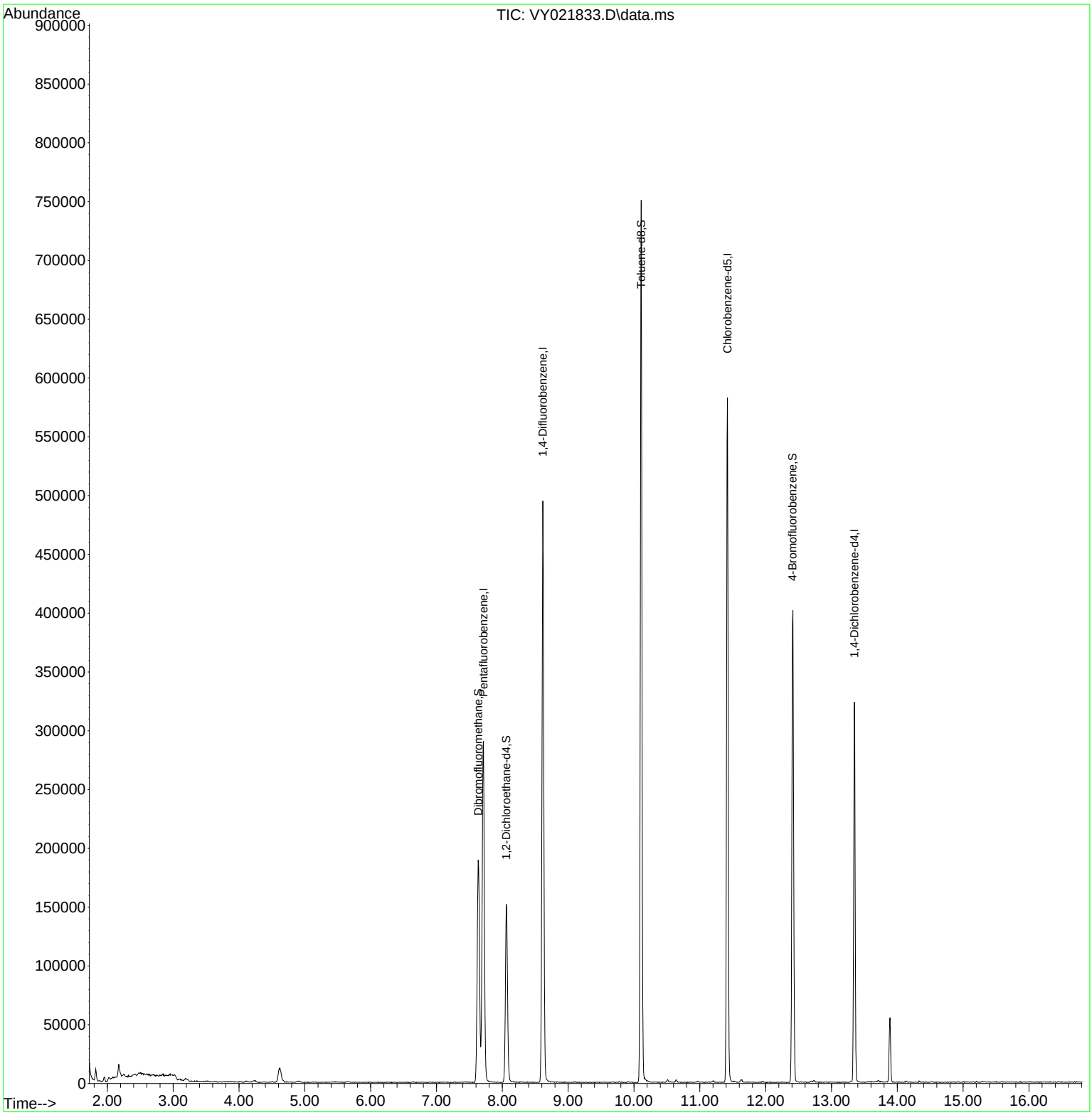
Target Compounds Qvalue

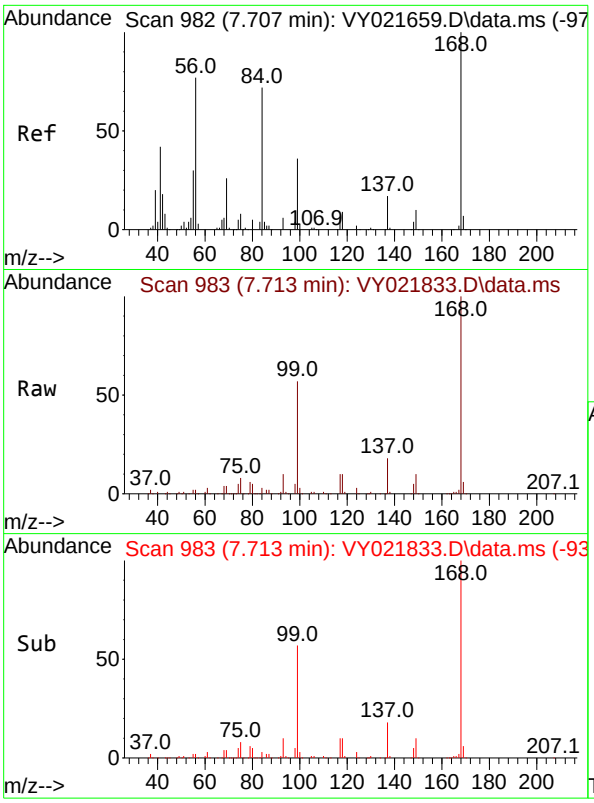
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Time: Apr 11 01:50:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



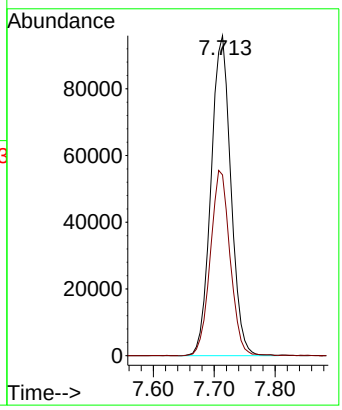


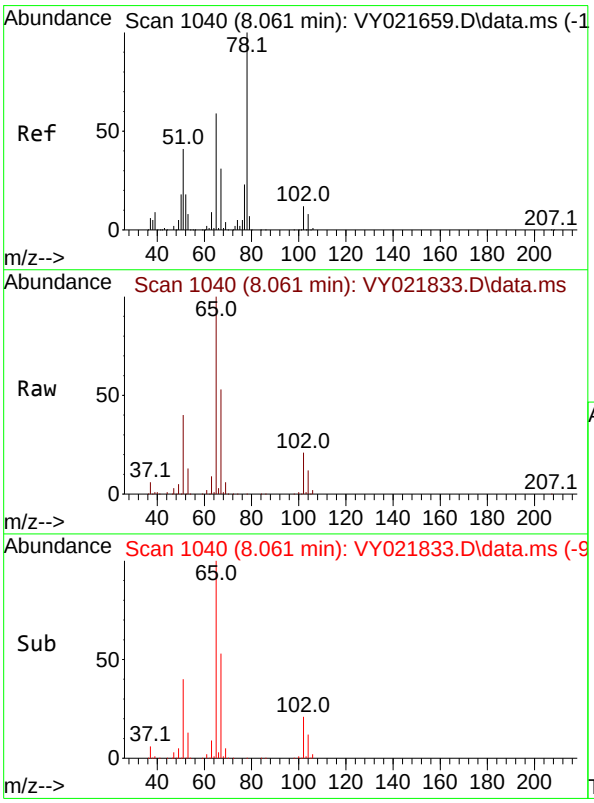
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Tgt Ion:168 Resp: 216986

Ion	Ratio	Lower	Upper
168	100		
99	56.5	46.7	70.1

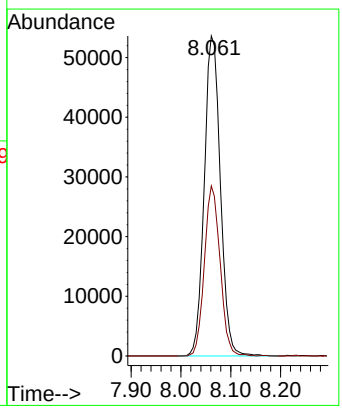


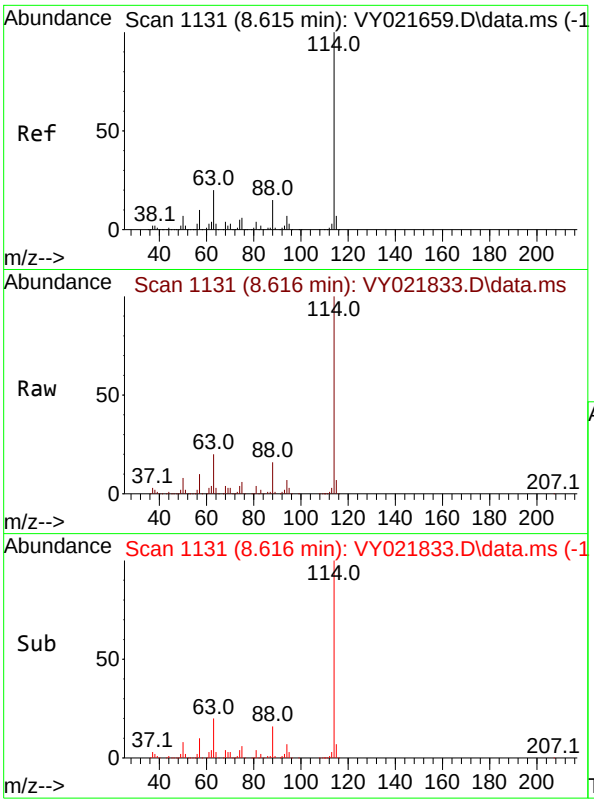


#33
1,2-Dichloroethane-d4
Concen: 51.309 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Tgt Ion: 65 Resp: 120626

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.6



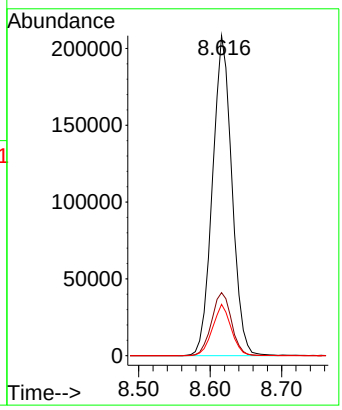


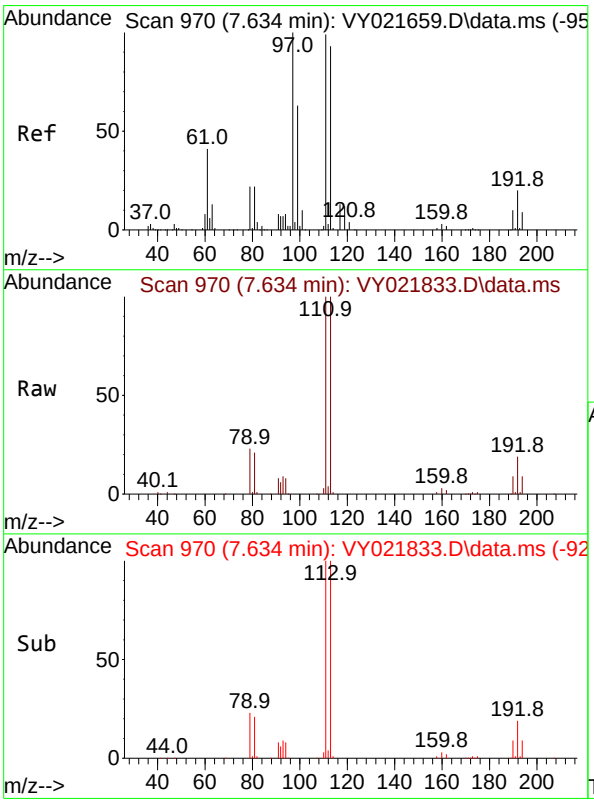
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Tgt Ion:114 Resp: 393099

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.2
88	16.1	0.0	29.8

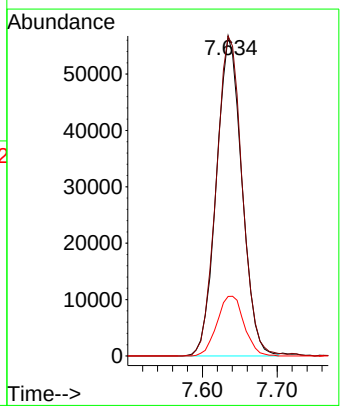


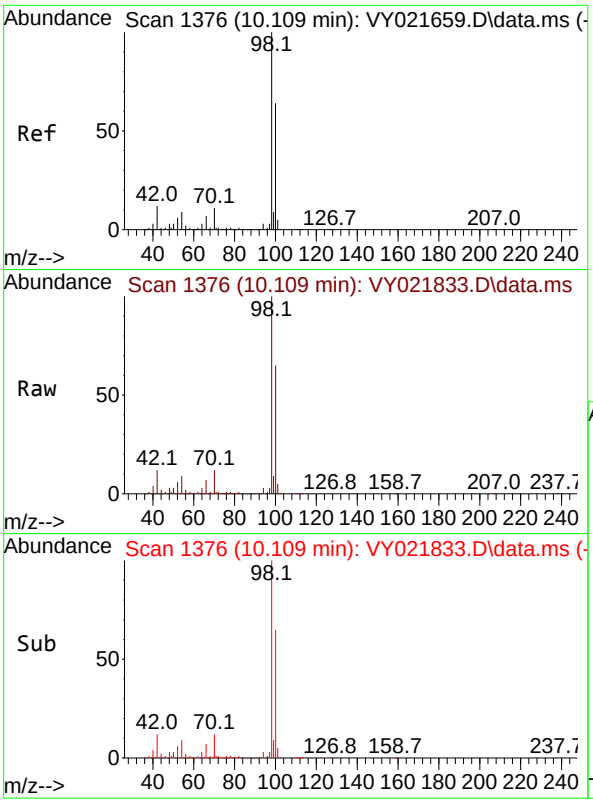


#35
Dibromofluoromethane
Concen: 52.787 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Tgt Ion:113 Resp: 134604

Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.6	123.8
192	19.8	16.2	24.4



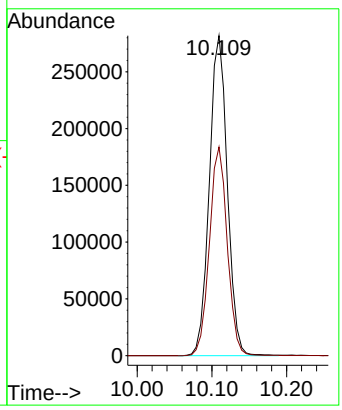


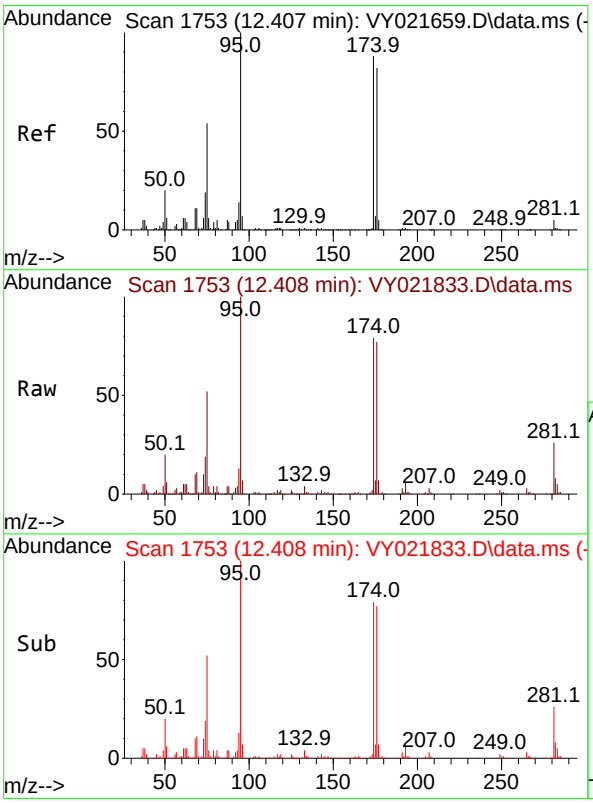
#50
Toluene-d8
Concen: 48.652 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Tgt Ion: 98 Resp: 471962

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.1	78.1

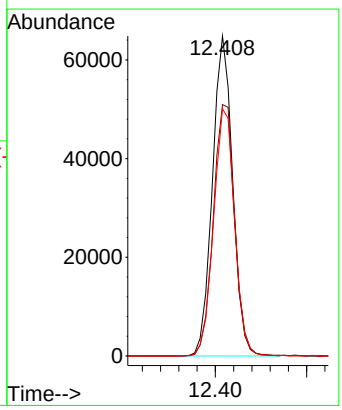


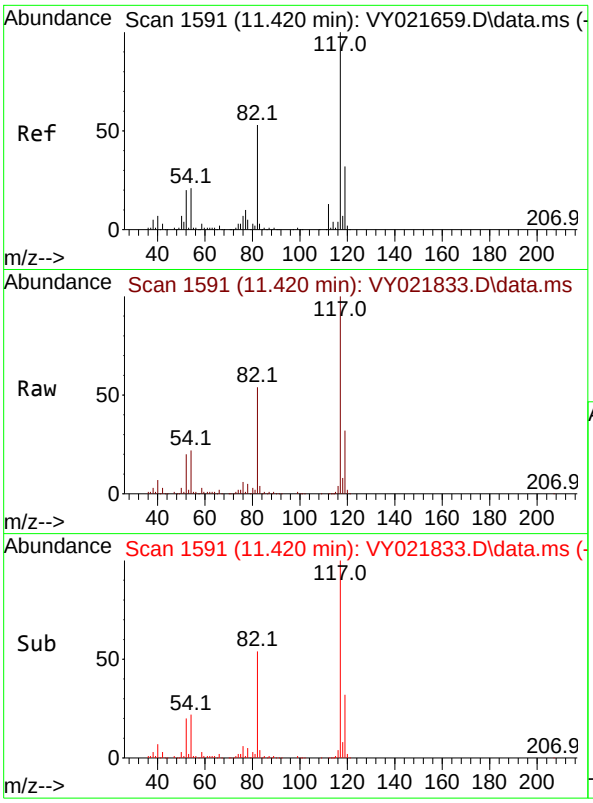


#62
4-Bromofluorobenzene
Concen: 30.372 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Tgt Ion: 95 Resp: 99658

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	170.8
176	80.3	0.0	162.0



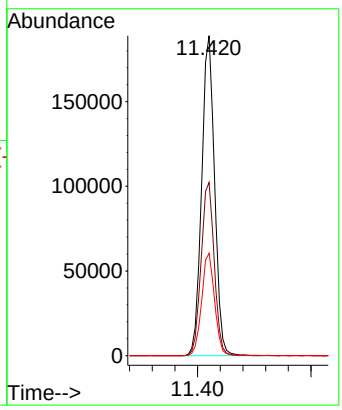


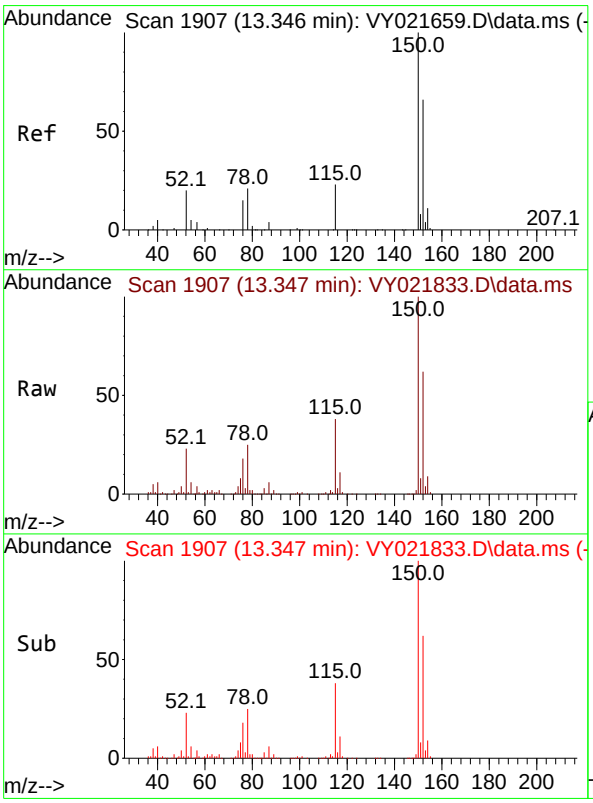
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Tgt Ion:117 Resp: 299518

Ion	Ratio	Lower	Upper
117	100		
82	54.1	42.8	64.2
119	32.0	25.7	38.5

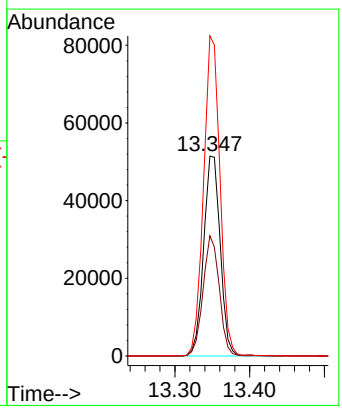




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021833.D
Acq: 10 Apr 2025 13:16

Tgt Ion:152 Resp: 79360

Ion	Ratio	Lower	Upper
152	100		
115	58.7	28.8	86.5
150	158.5	0.0	348.4



Sample Results: **VY021833.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021833.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	1.824	13	17	23	rVB	9967	13629	1.07%	0.227%
2	2.172	69	74	81	rBV3	10940	21441	1.69%	0.357%
3	4.623	464	476	487	rBV3	12077	41747	3.29%	0.695%
4	7.634	960	970	976	rBV	189364	457702	36.05%	7.619%
5	7.713	976	983	995	rVB	289450	667207	52.55%	11.106%
6	8.061	1031	1040	1054	rBV	151519	342157	26.95%	5.695%
7	8.616	1117	1131	1145	rBV	494702	937560	73.84%	15.606%
8	10.109	1367	1376	1384	rBV	750561	1269653	100.00%	21.134%
9	11.420	1583	1591	1604	rBV	582322	933665	73.54%	15.541%
10	12.414	1745	1754	1770	rBV2	401367	743897	58.59%	12.382%
11	13.347	1901	1907	1917	rVB	322935	492516	38.79%	8.198%
12	13.889	1990	1996	2002	rBV2	54749	86565	6.82%	1.441%

Sum of corrected areas: 6007739

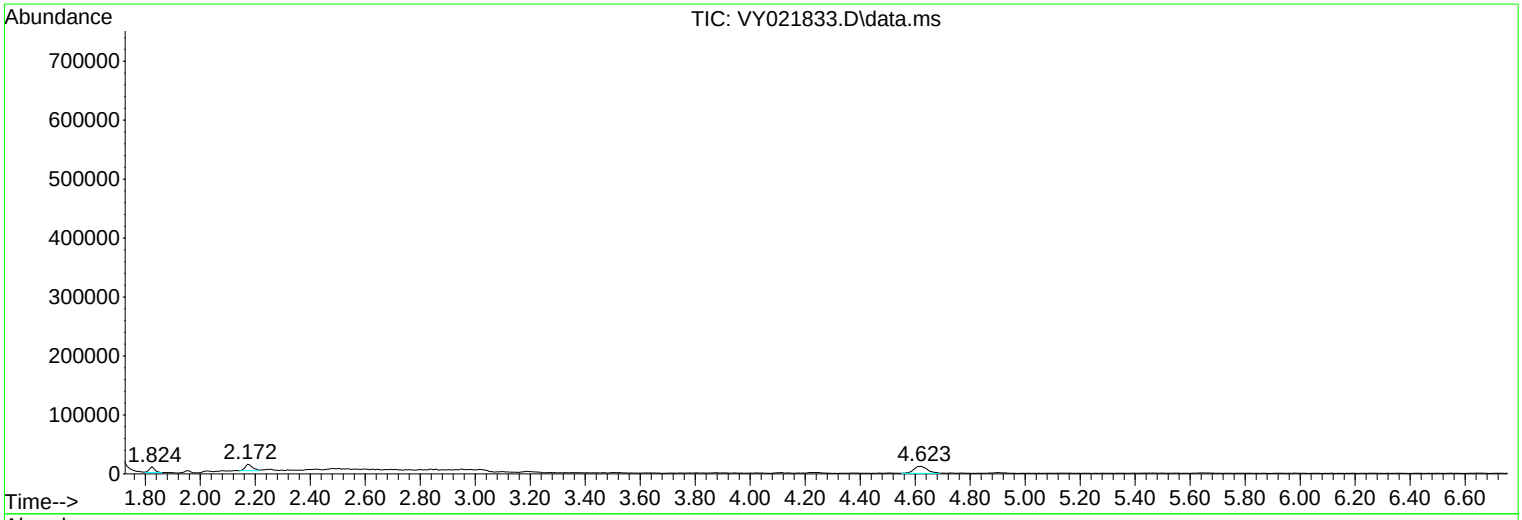
Sample Results: **VY021833.D**

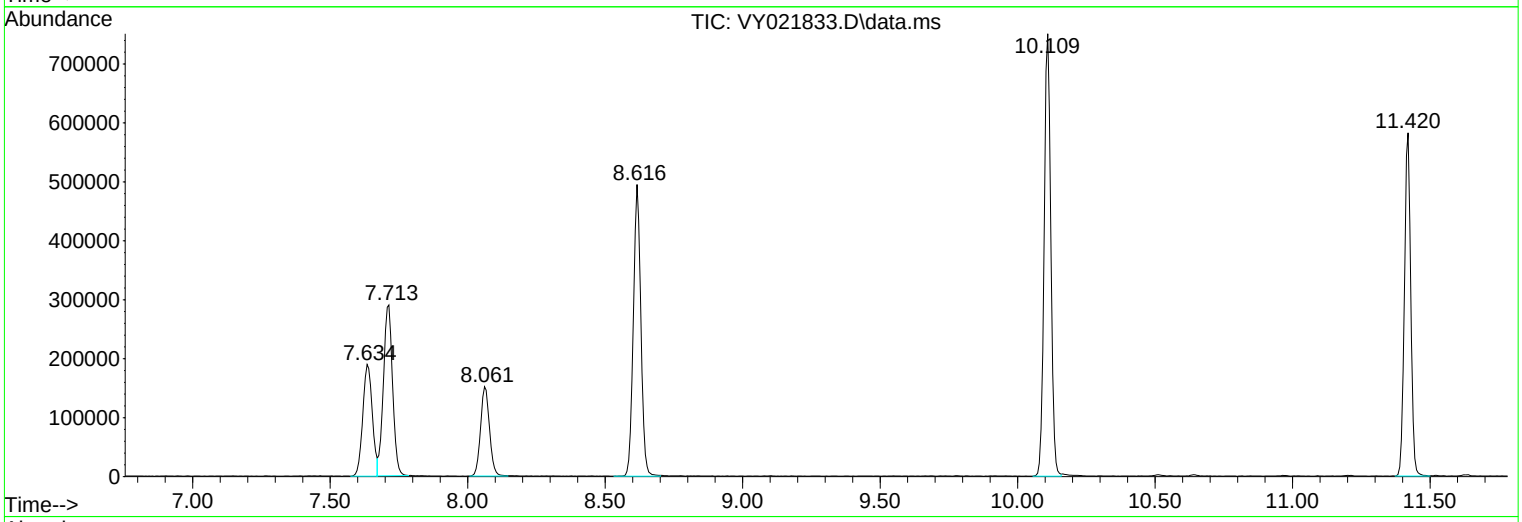
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

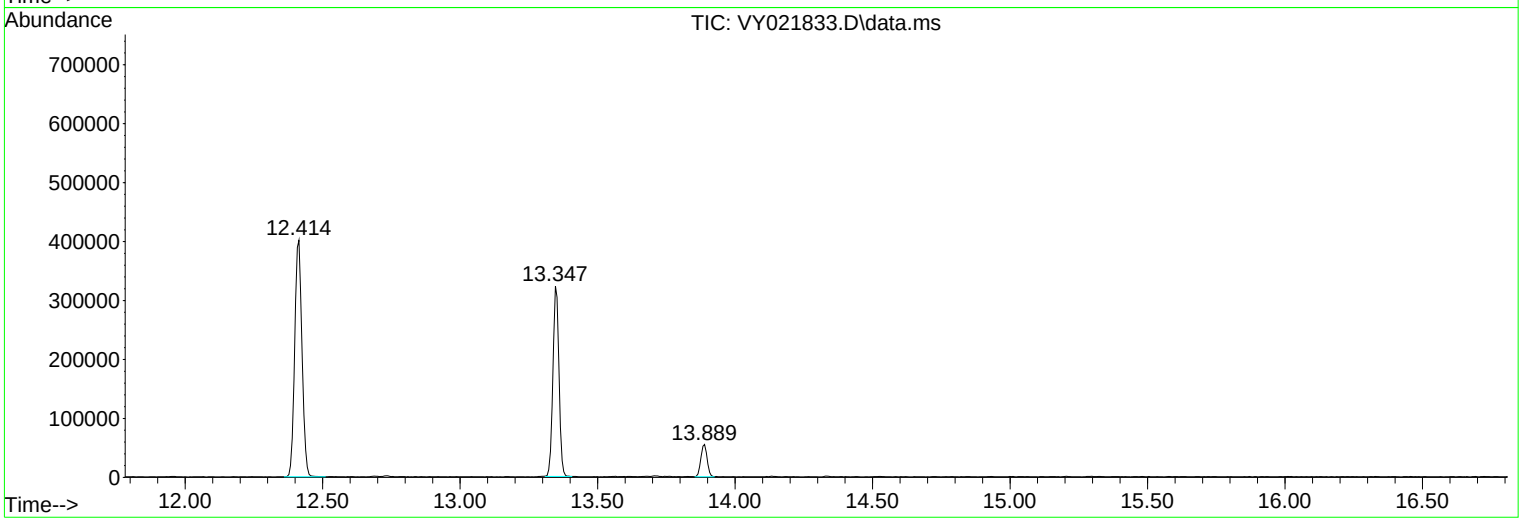
Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY021833.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021833.D
Acq On : 10 Apr 2025 13:16
Operator : SY/MD
Sample : Q1746-01
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Time: Apr 11 01:50:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

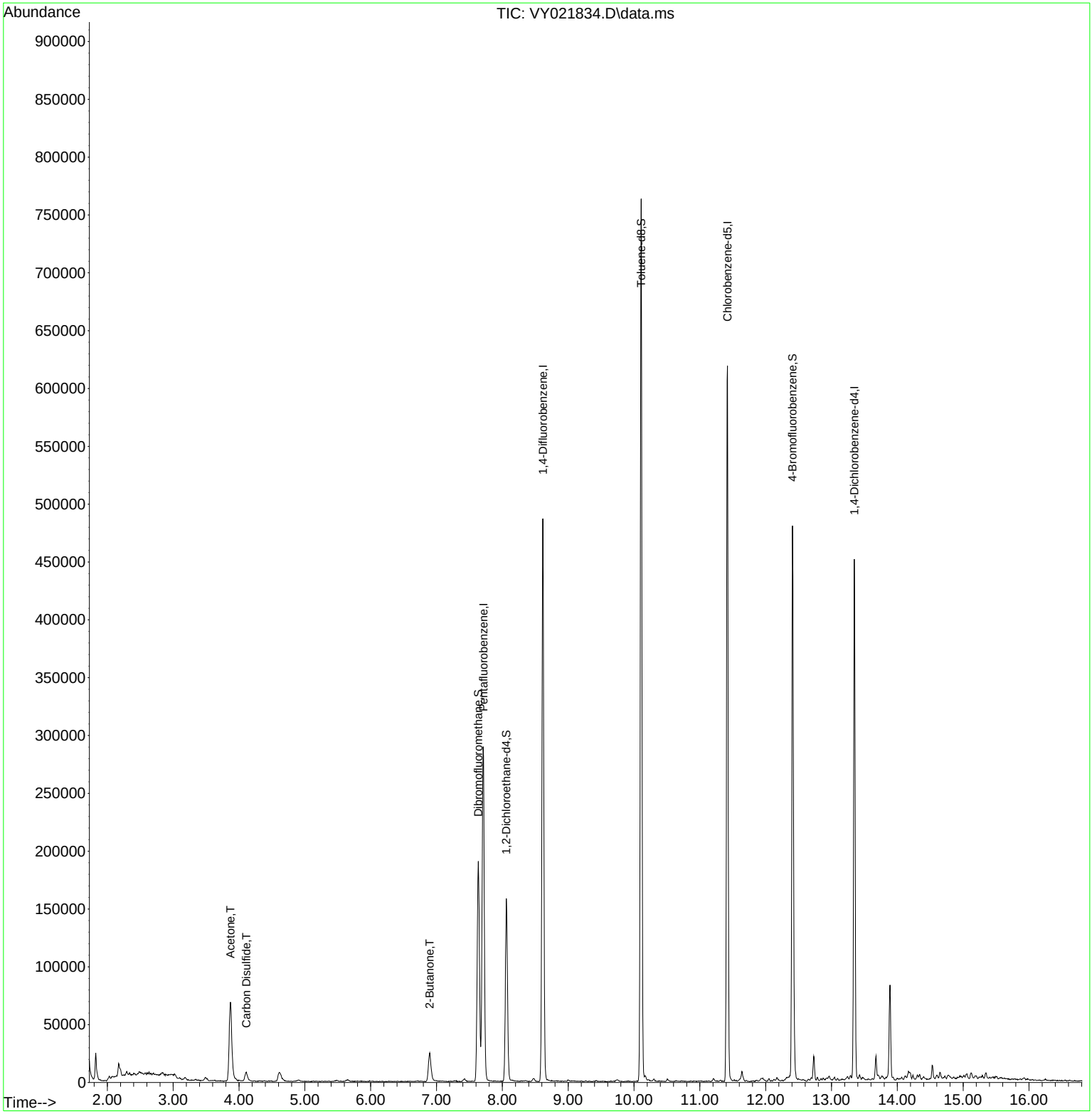
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	219270	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	400432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	325268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	109046	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	123370	51.929	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.860%			
35) Dibromofluoromethane	7.634	113	134042	51.604	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.200%			
50) Toluene-d8	10.109	98	482801	48.858	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.720%			
62) 4-Bromofluorobenzene	12.408	95	125419	37.523	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.040%			
Target Compounds						Qvalue
16) Acetone	3.873	43	123652	254.314	ug/l	98
17) Carbon Disulfide	4.110	76	14450	1.908	ug/l	95
25) 2-Butanone	6.896	43	42592	61.330	ug/l	92

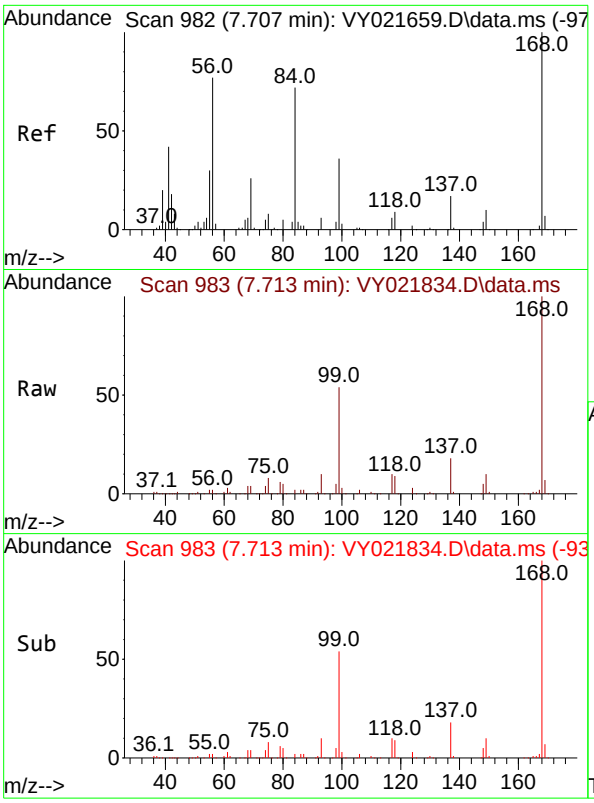
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Time: Apr 11 01:50:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



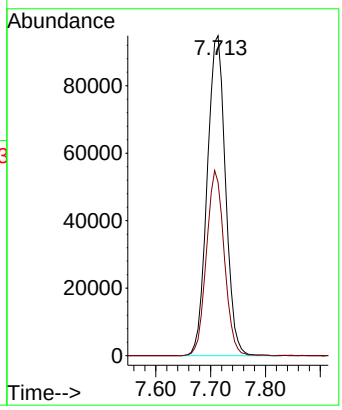


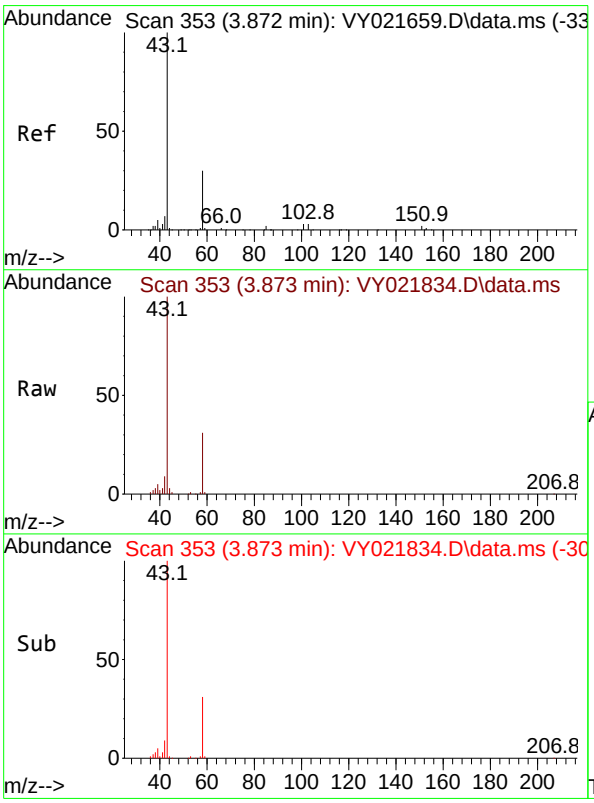
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Tgt Ion:168 Resp: 219270

Ion	Ratio	Lower	Upper
168	100		
99	54.2	46.7	70.1

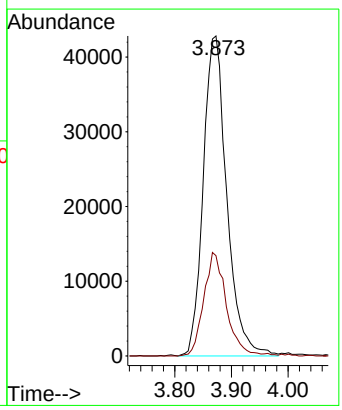


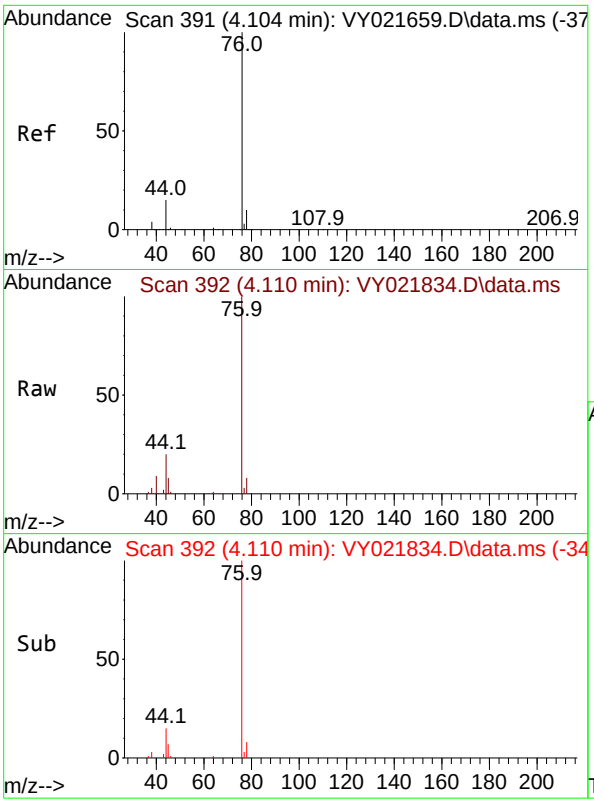


#16
Acetone
Concen: 254.314 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Tgt Ion: 43 Resp: 123652

Ion	Ratio	Lower	Upper
43	100		
58	31.3	24.2	36.4



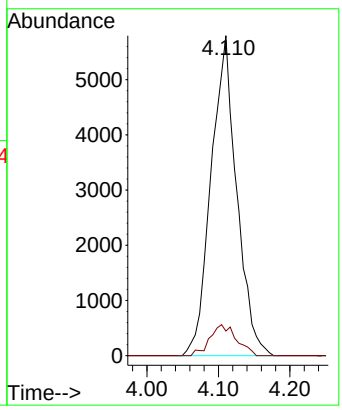


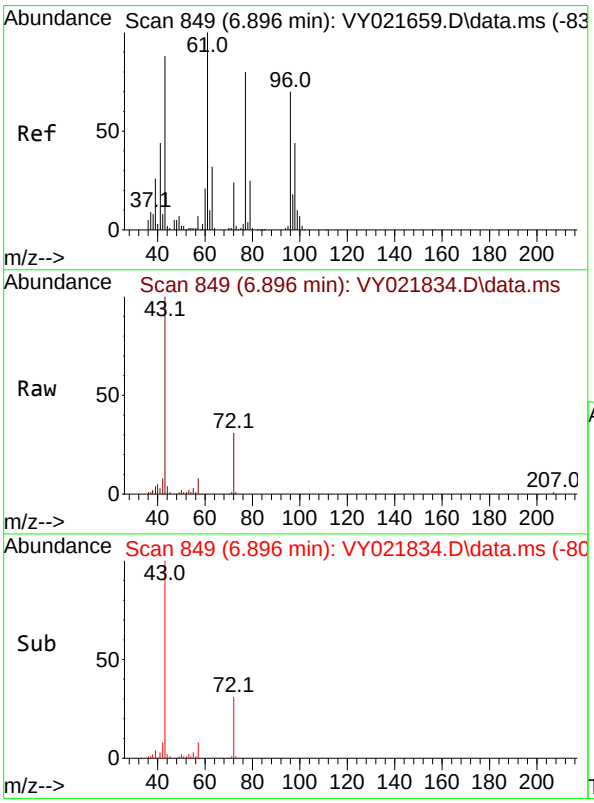
#17
Carbon Disulfide
Concen: 1.908 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Tgt Ion: 76 Resp: 14450

Ion	Ratio	Lower	Upper
76	100		
78	7.7	7.6	11.4

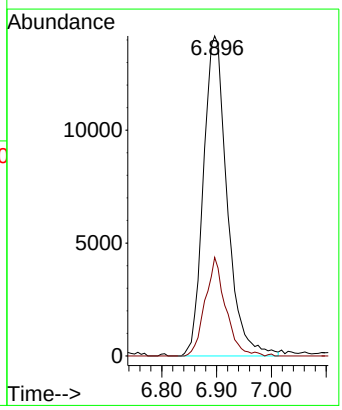


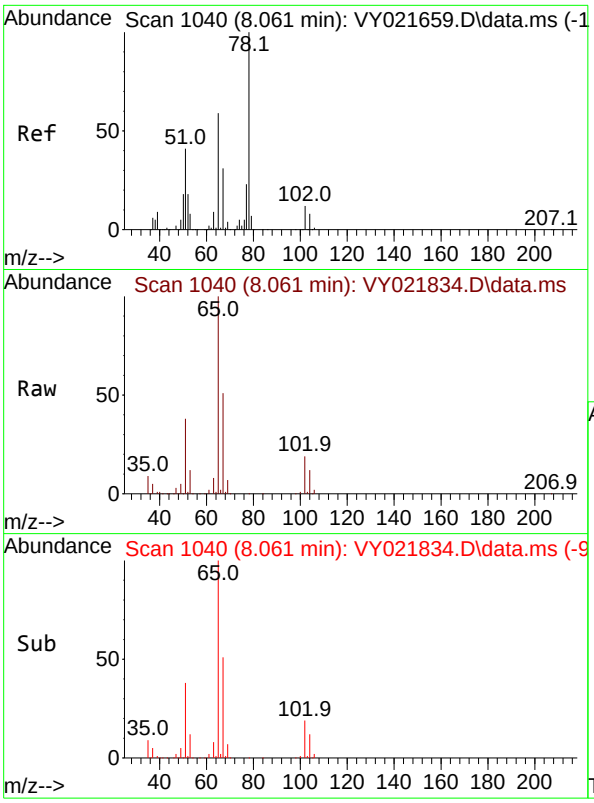


#25
2-Butanone
Concen: 61.330 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Tgt Ion: 43 Resp: 42592

Ion	Ratio	Lower	Upper
43	100		
72	30.8	21.4	32.2



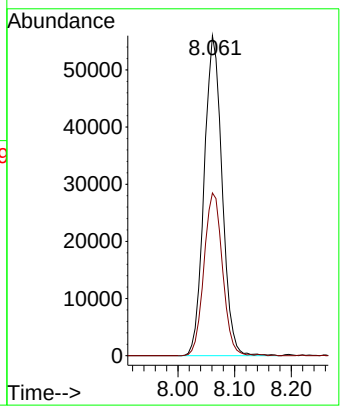


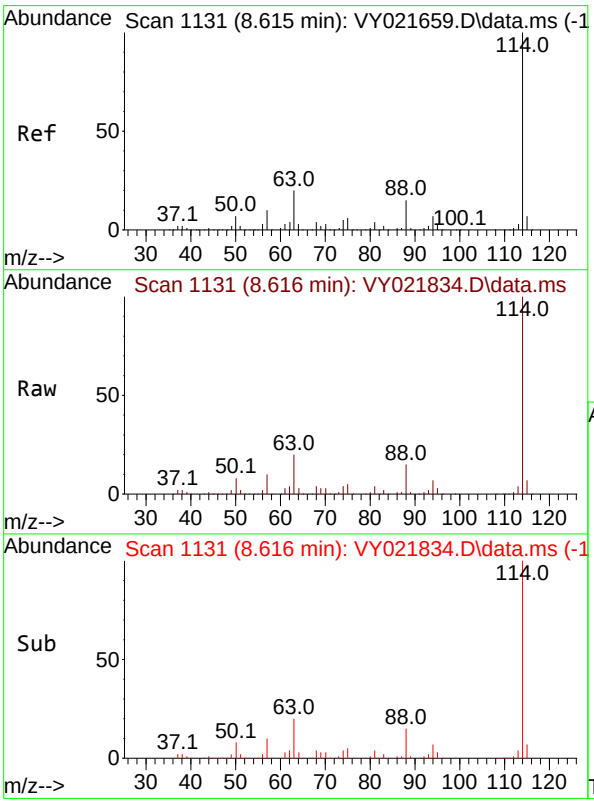
#33
1,2-Dichloroethane-d4
Concen: 51.929 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Tgt Ion: 65 Resp: 123370

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.6

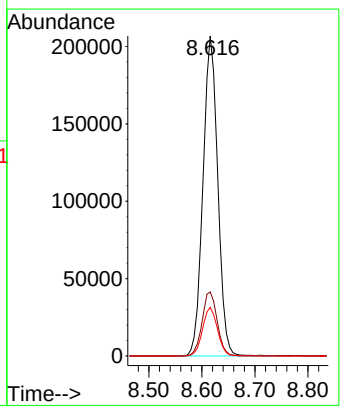


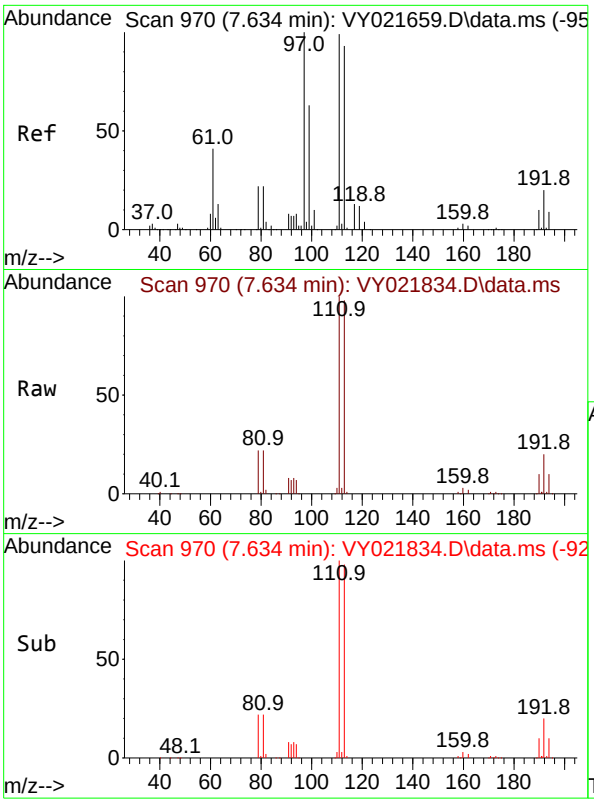


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Tgt Ion:114 Resp: 400432

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.2
88	15.2	0.0	29.8



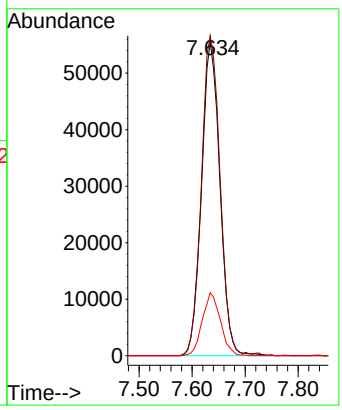


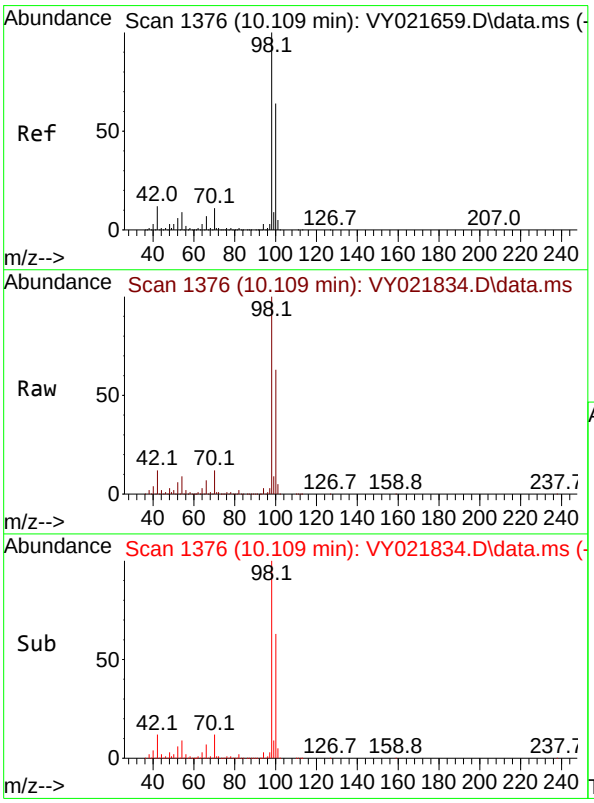
#35
Dibromofluoromethane
Concen: 51.604 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Tgt Ion:113 Resp: 134042

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.6	123.8
192	19.7	16.2	24.4

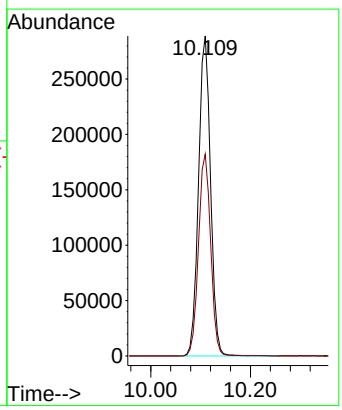


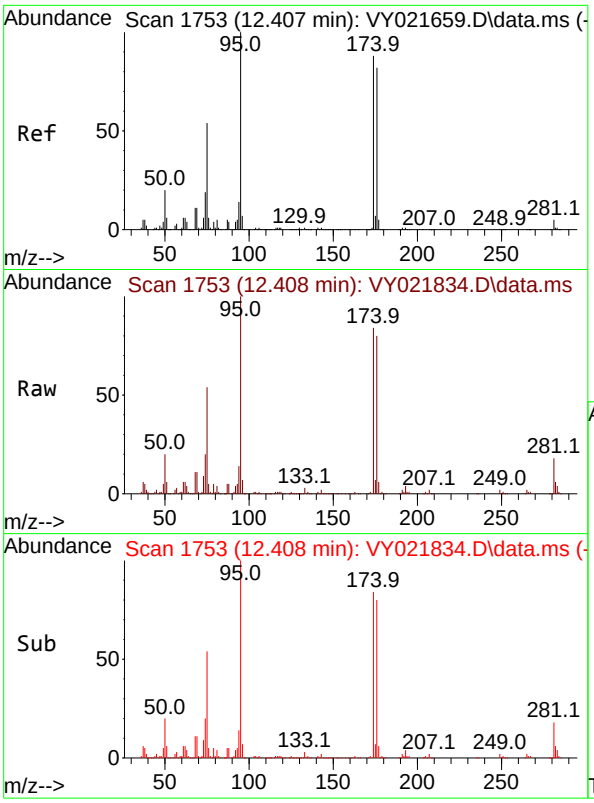


#50
Toluene-d8
Concen: 48.858 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Tgt Ion: 98 Resp: 482801

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.1	78.1



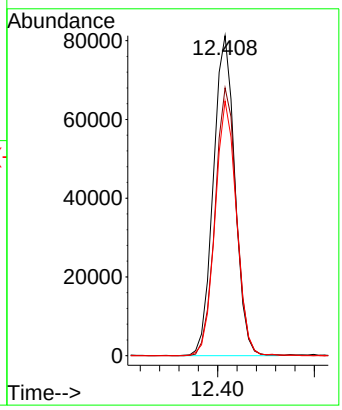


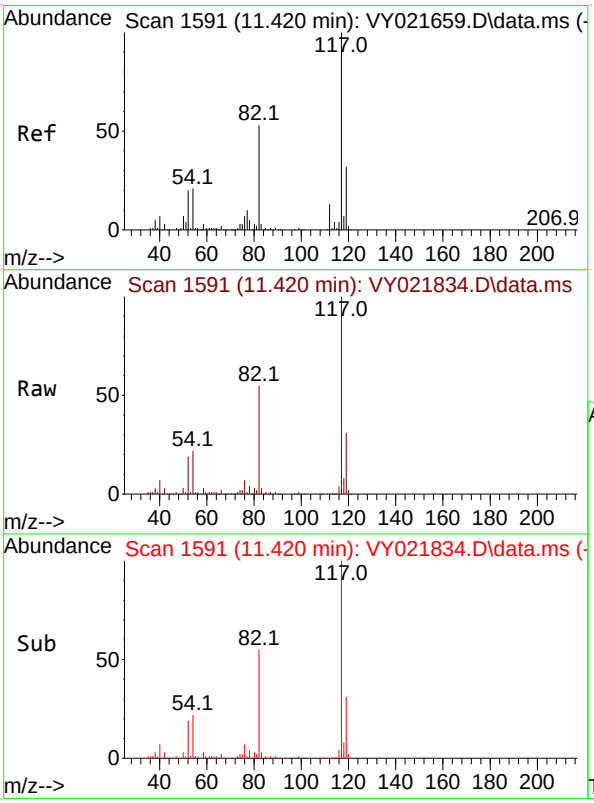
#62
4-Bromofluorobenzene
Concen: 37.523 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Tgt Ion: 95 Resp: 125419

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	170.8
176	79.0	0.0	162.0

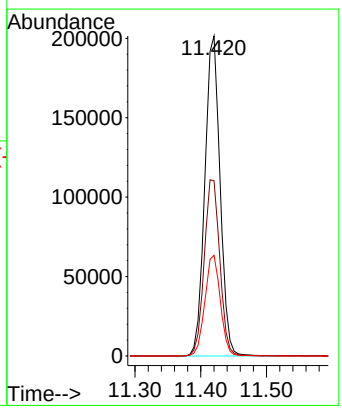


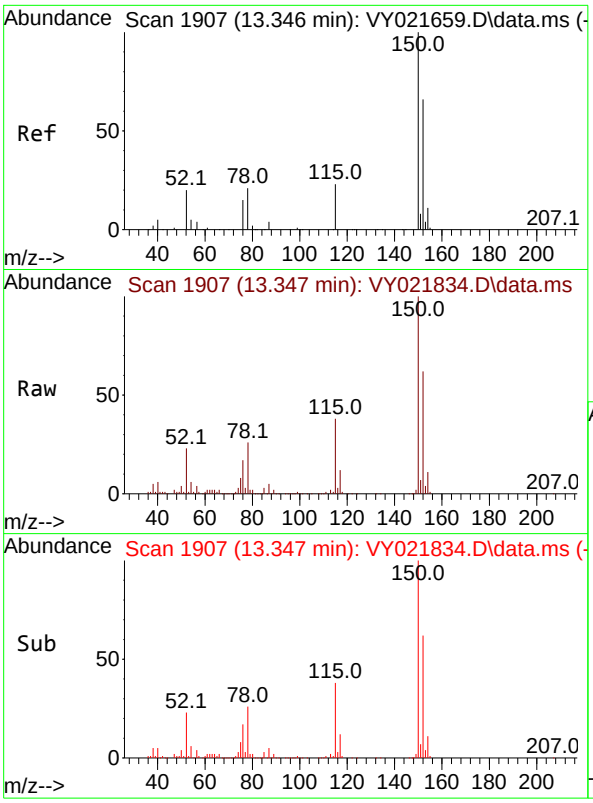


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Tgt Ion:117 Resp: 325268

Ion	Ratio	Lower	Upper
117	100		
82	54.7	42.8	64.2
119	31.4	25.7	38.5



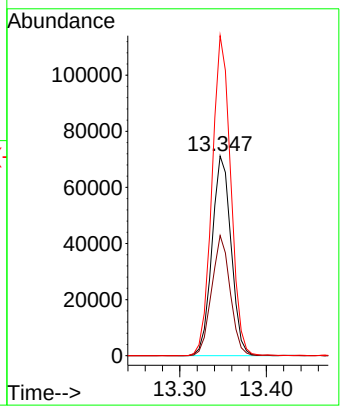


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021834.D
Acq: 10 Apr 2025 13:40

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Tgt Ion:152 Resp: 109046

Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.8	86.5
150	156.9	0.0	348.4



Sample Results: **VY021834.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021834.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	11	17	28	rVB2	23401	37328	2.89%	0.543%
2	2.172	70	74	83	rBV4	11032	24552	1.90%	0.357%
3	3.873	342	353	371	rBV	68146	198856	15.41%	2.895%
4	4.110	383	392	406	rVB	7843	22159	1.72%	0.323%
5	4.610	467	474	487	rBV5	7480	26182	2.03%	0.381%
6	6.896	838	849	861	rBV	24858	71839	5.57%	1.046%
7	7.634	960	970	976	rBV	190203	455512	35.30%	6.631%
8	7.707	976	982	995	rVB	288687	664631	51.50%	9.675%
9	8.061	1031	1040	1051	rBV	158220	349245	27.06%	5.084%
10	8.616	1121	1131	1141	rBV	486684	951538	73.74%	13.851%
11	10.109	1367	1376	1384	rBV	763101	1290430	100.00%	18.785%
12	11.420	1583	1591	1603	rBV	618786	1023980	79.35%	14.906%
13	11.640	1615	1627	1635	rVB6	8485	19251	1.49%	0.280%
14	12.408	1747	1753	1766	rVB2	478793	840413	65.13%	12.234%
15	12.731	1802	1806	1812	rVB2	20567	31893	2.47%	0.464%
16	13.347	1900	1907	1916	rVB	449069	680762	52.75%	9.910%
17	13.676	1955	1961	1965	rBV2	19975	30485	2.36%	0.444%
18	13.889	1987	1996	2001	rBV2	80435	133071	10.31%	1.937%
19	14.529	2097	2101	2108	rBV2	11671	17487	1.36%	0.255%

Sum of corrected areas: 6869614

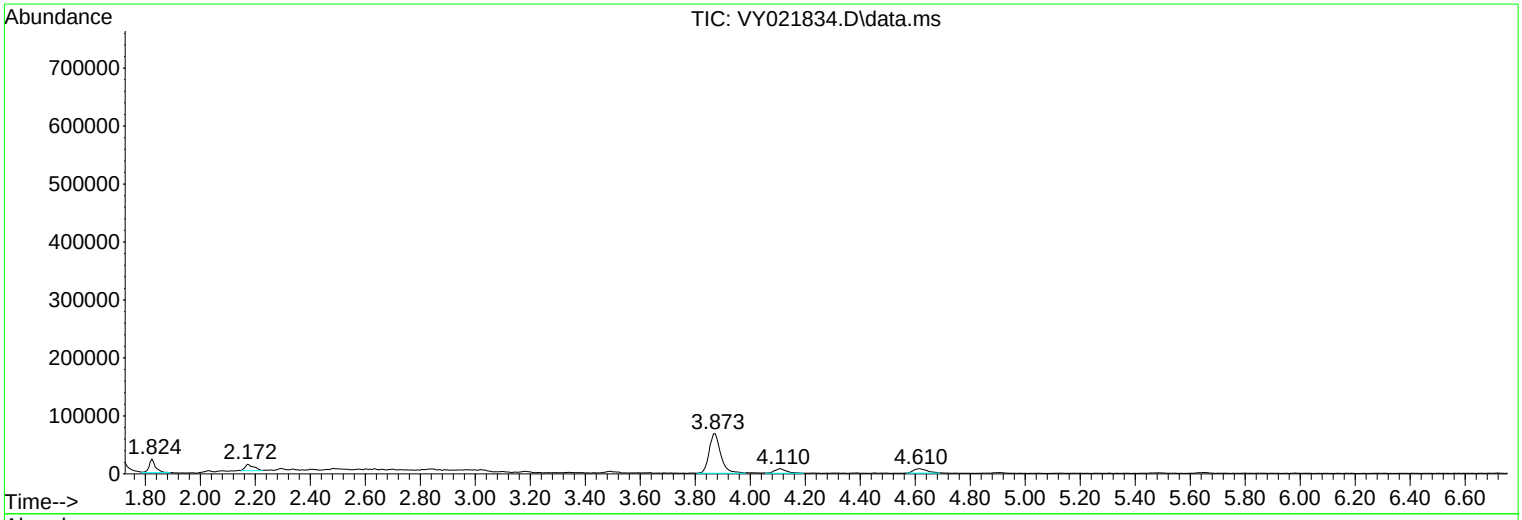
Sample Results: **VY021834.D**

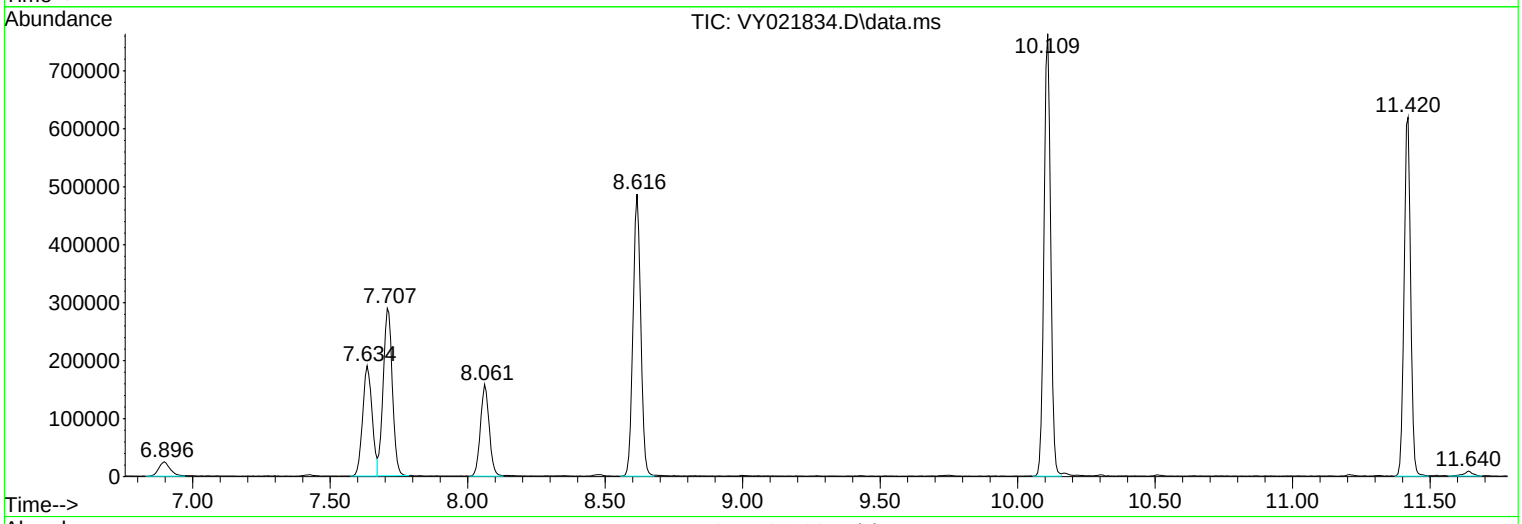
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

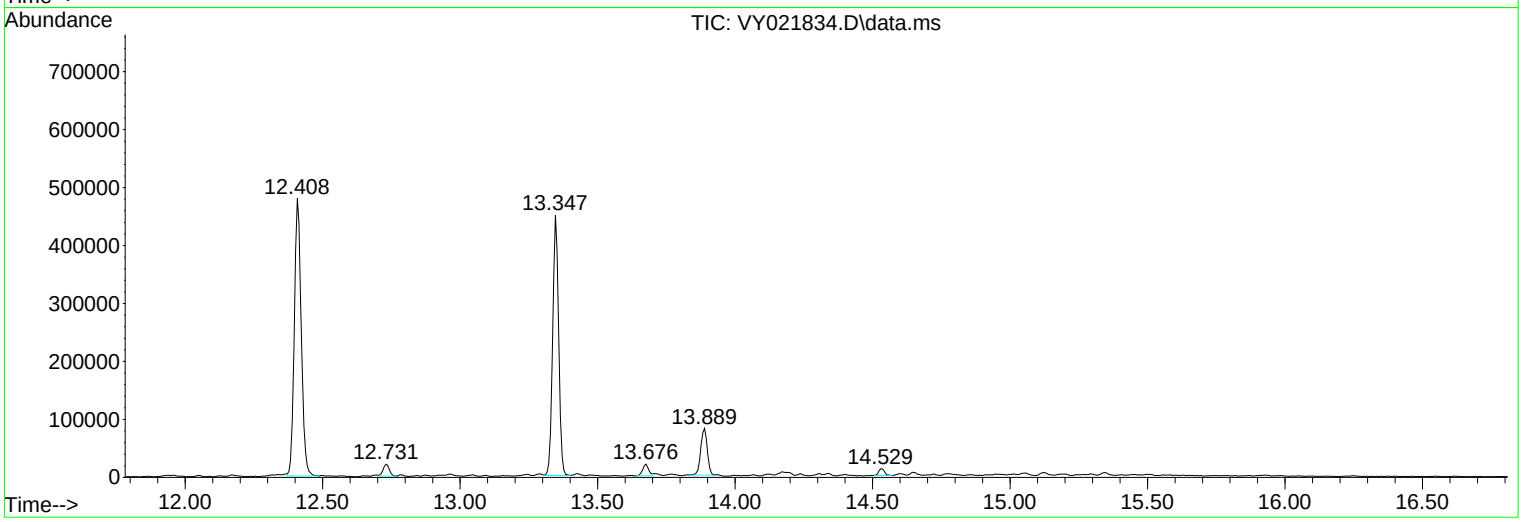
Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VY021834.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021834.D
Acq On : 10 Apr 2025 13:40
Operator : SY/MD
Sample : Q1746-03
Misc : 4.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-149-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Time: Apr 08 01:36:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	60555	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	119845	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	111495	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61948	55.940	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.880%			
35) Dibromofluoromethane	5.379	113	44324	52.127	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.260%			
50) Toluene-d8	8.647	98	152795	51.483	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.960%			
62) 4-Bromofluorobenzene	11.079	95	55792	51.609	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.220%			
Target Compounds						Qvalue
16) Acetone	2.380	43	7924	17.426	ug/l	98
30) Chloroform	5.087	83	47780	30.219	ug/l	93
47) Bromodichloromethane	7.818	83	14500	10.811	ug/l	99
52) Toluene	8.714	92	52834	24.902	ug/l	100
60) Dibromochloromethane	9.525	129	4623	5.016	ug/l	95

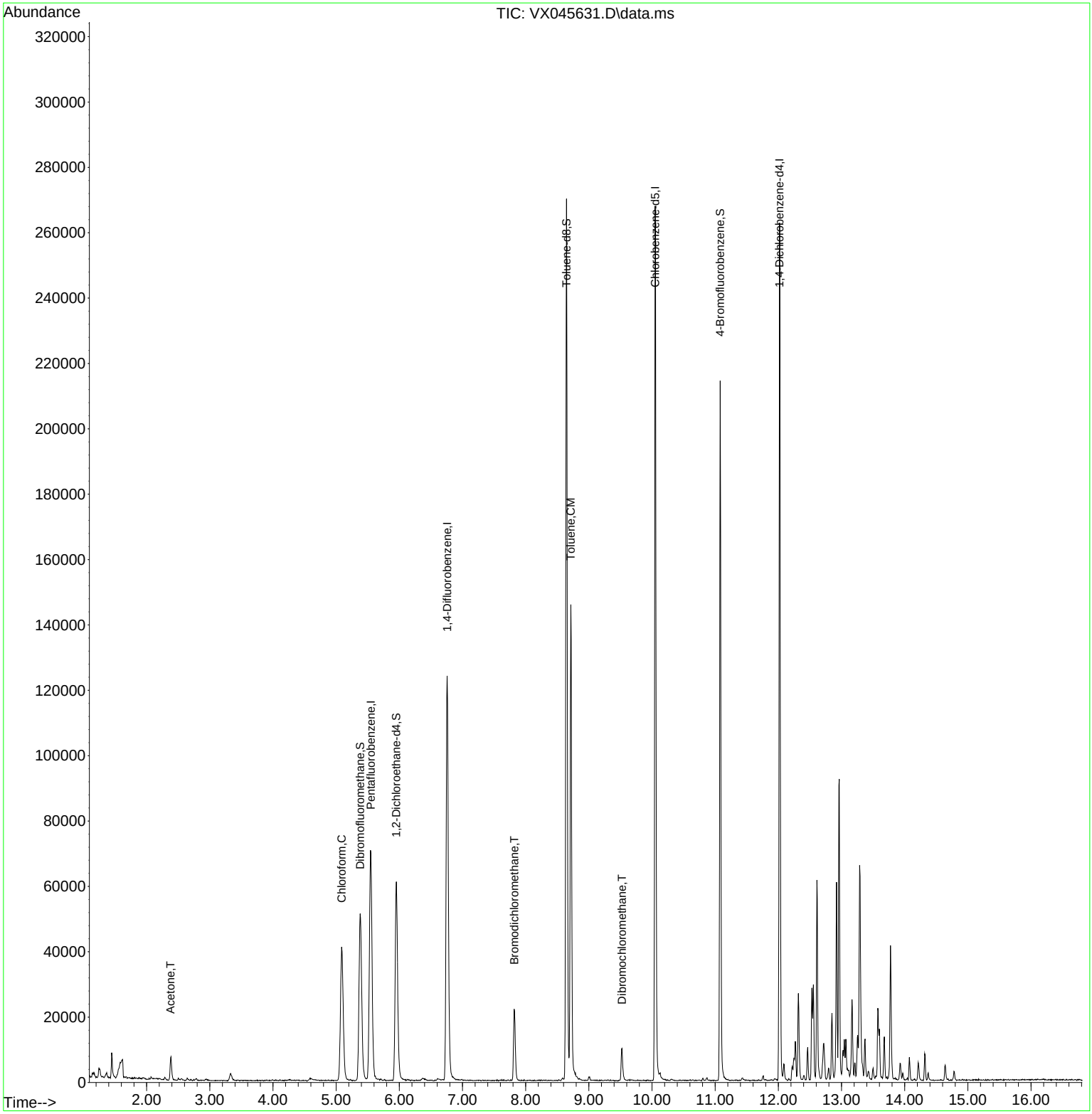
(#) = qualifier out of range (m) = manual integration (+) = signals summed

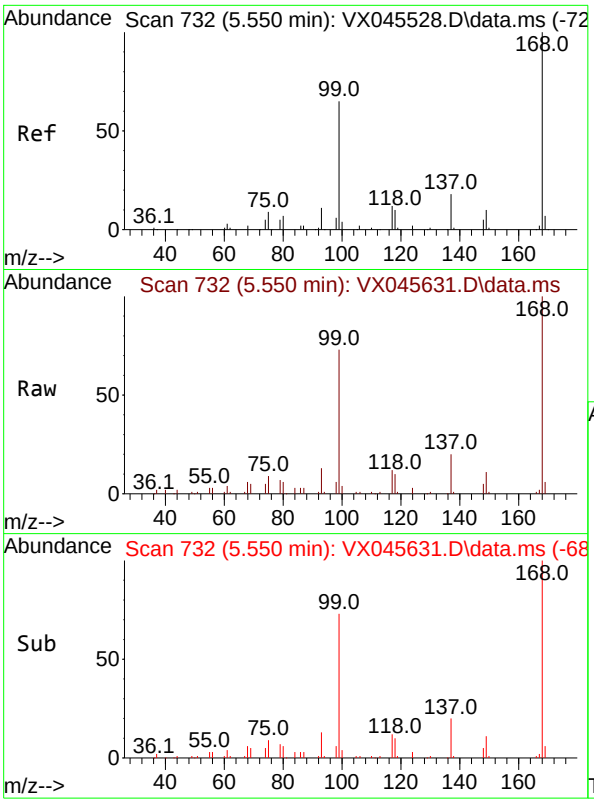
Sample Results: **VX045631.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Time: Apr 08 01:36:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



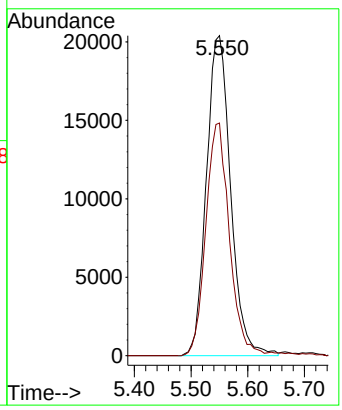


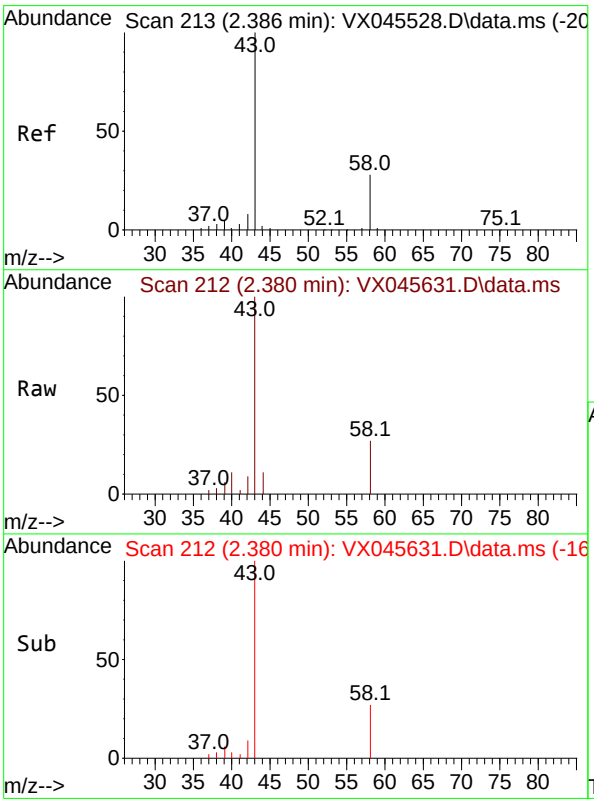
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Tgt Ion:168 Resp: 60555

Ion	Ratio	Lower	Upper
168	100		
99	72.7	52.3	78.5

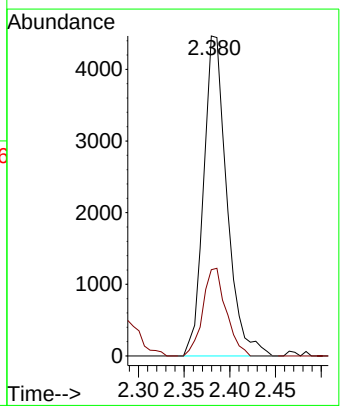


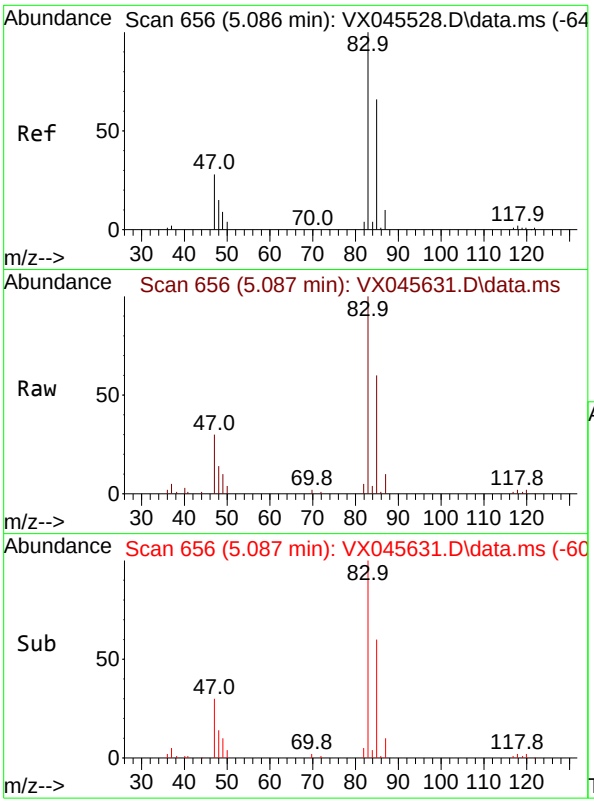


#16
Acetone
Concen: 17.426 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion: 43 Resp: 7924

Ion	Ratio	Lower	Upper
43	100		
58	27.0	22.3	33.5



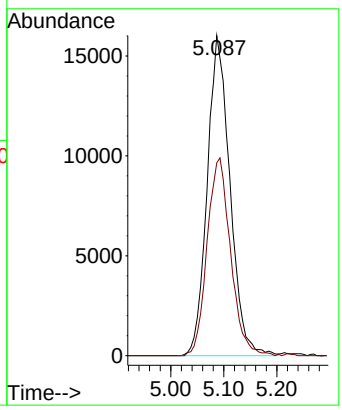


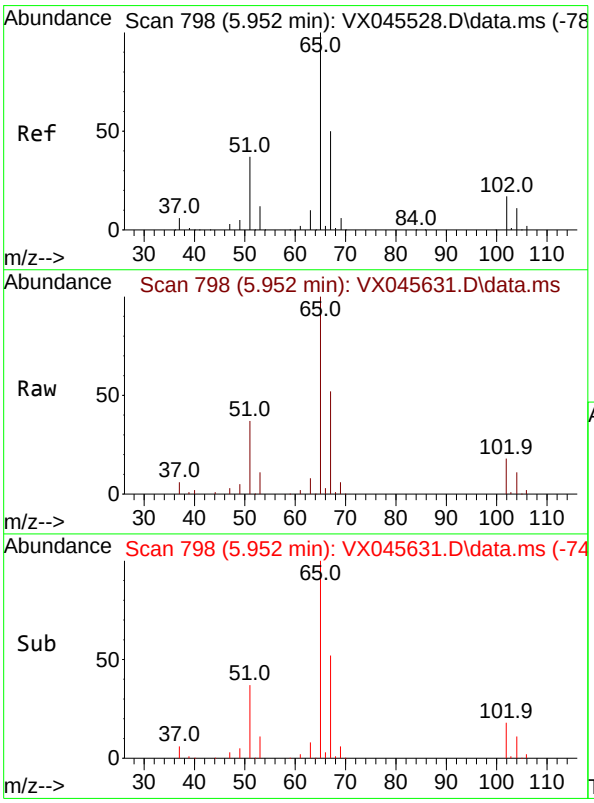
#30
Chloroform
Concen: 30.219 ug/l
RT: 5.087 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Tgt Ion: 83 Resp: 47780

Ion	Ratio	Lower	Upper
83	100		
85	60.2	52.8	79.2

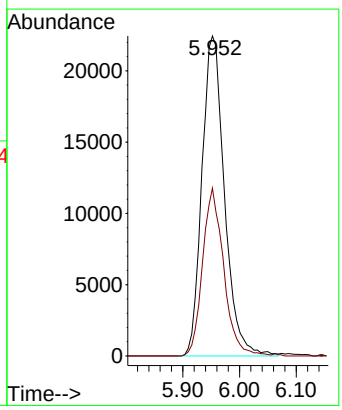


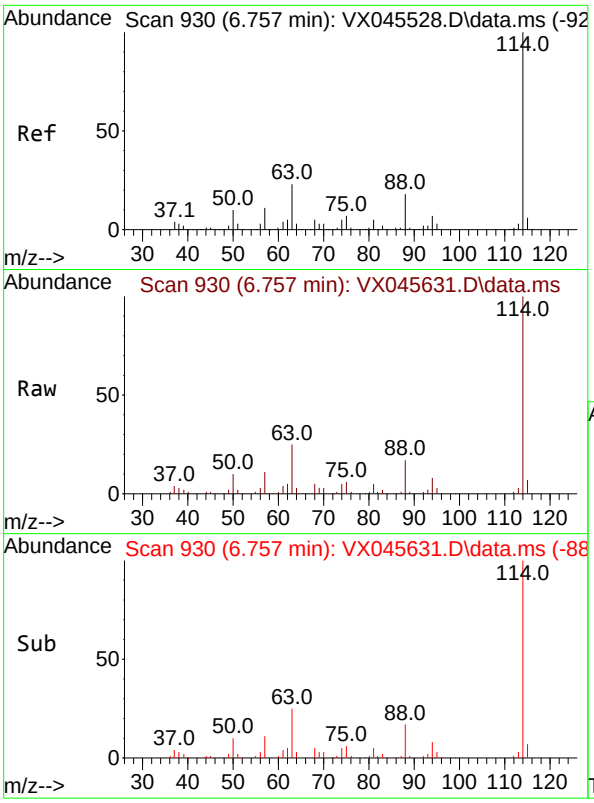


#33
1,2-Dichloroethane-d4
Concen: 55.940 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion: 65 Resp: 61948

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0



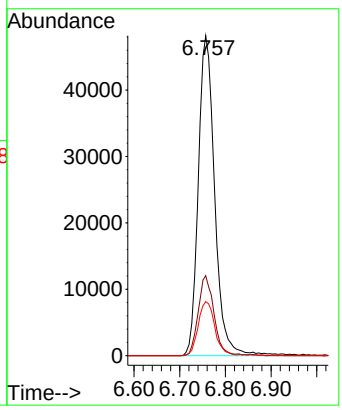


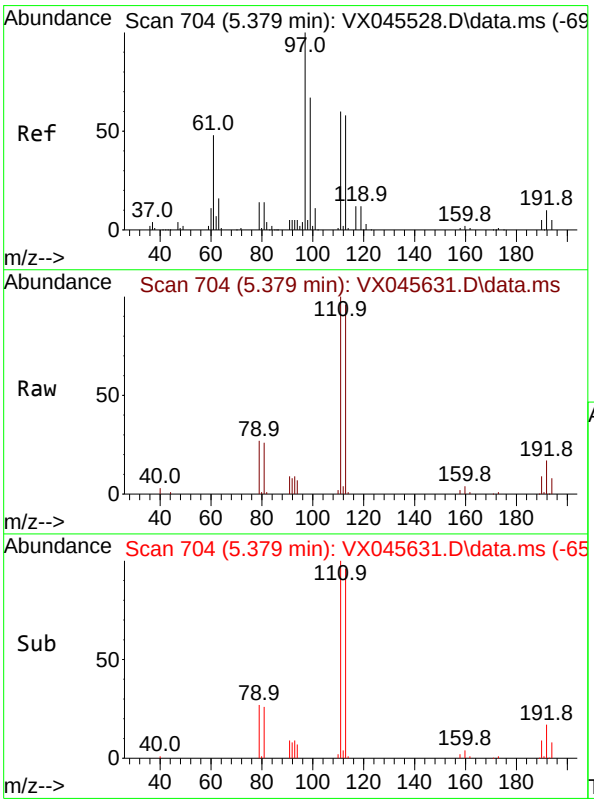
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Tgt Ion:114 Resp: 119845

Ion	Ratio	Lower	Upper
114	100		
63	25.0	0.0	46.8
88	16.9	0.0	35.4

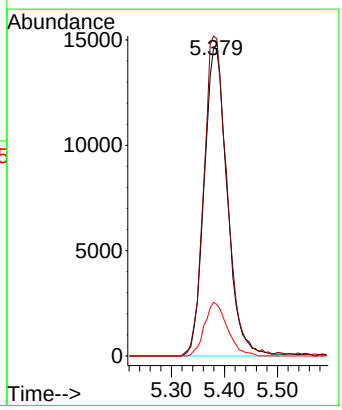


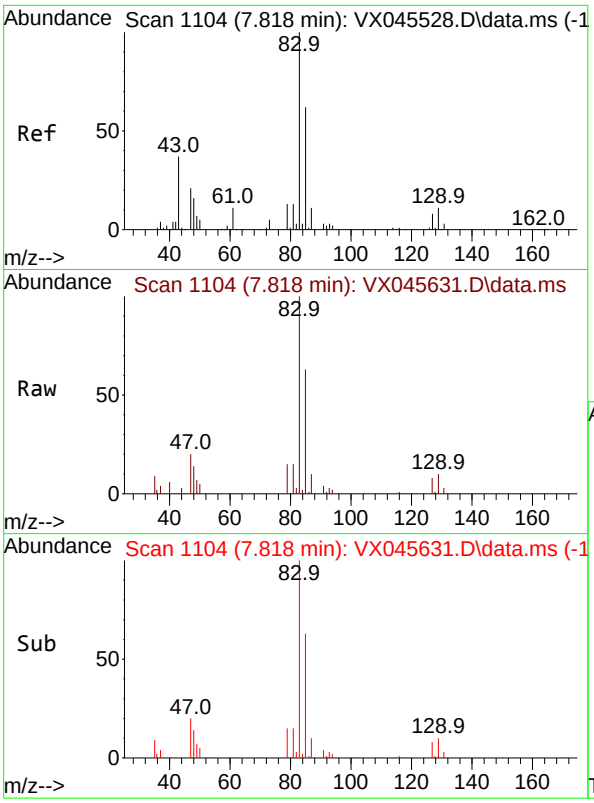


#35
Dibromofluoromethane
Concen: 52.127 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion:113 Resp: 44324

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	17.2	13.8	20.6



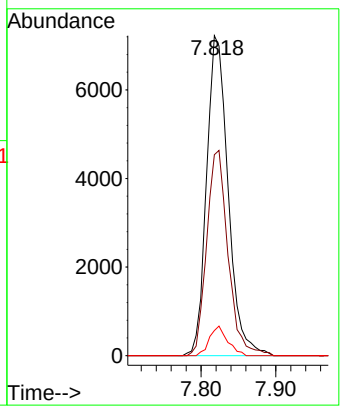


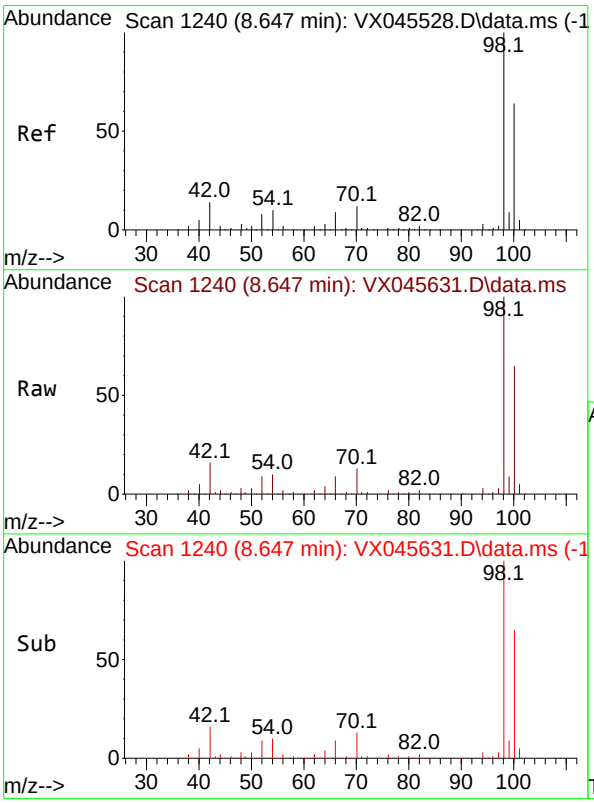
#47
Bromodichloromethane
Concen: 10.811 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Tgt Ion: 83 Resp: 14500

Ion	Ratio	Lower	Upper
83	100		
85	62.8	49.7	74.5
127	7.9	6.1	9.1

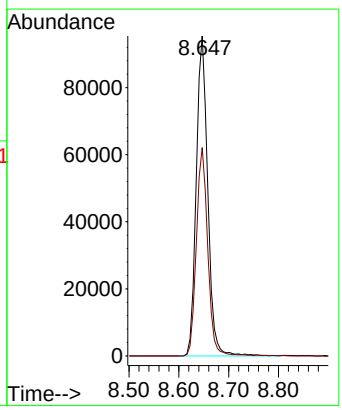


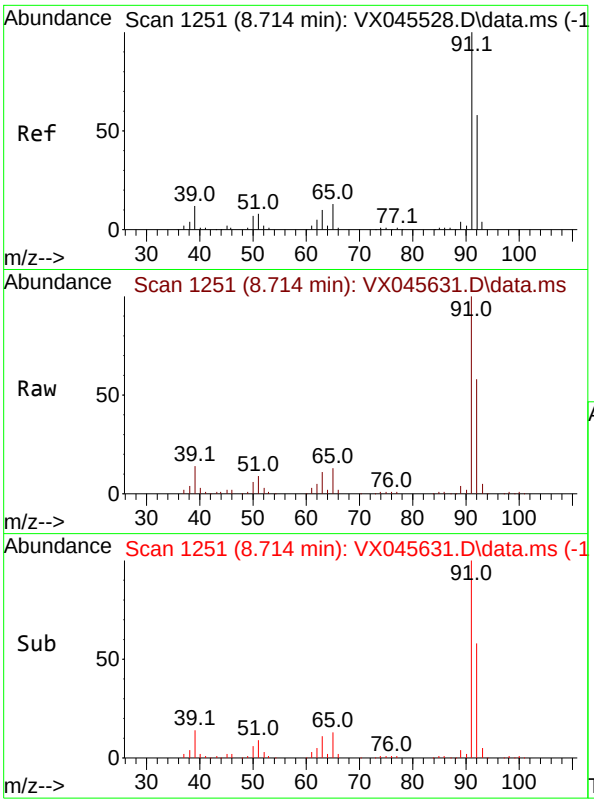


#50
Toluene-d8
Concen: 51.483 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion: 98 Resp: 152795

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.4



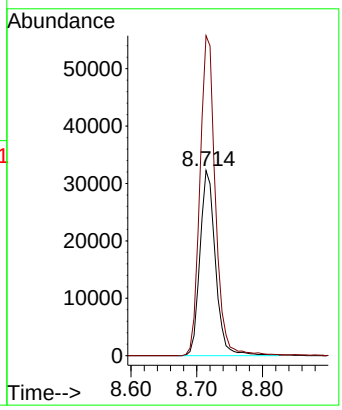


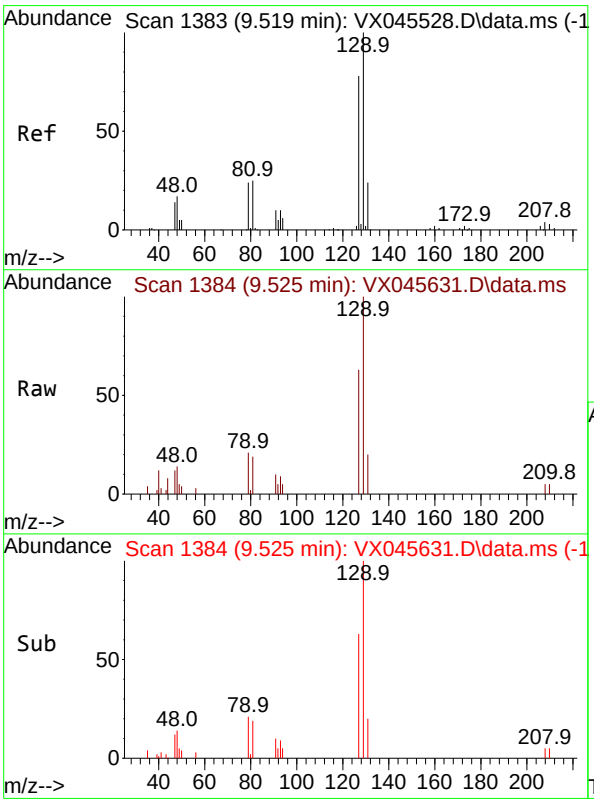
#52
Toluene
Concen: 24.902 ug/l
RT: 8.714 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Tgt Ion: 92 Resp: 52834

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.7	208.1

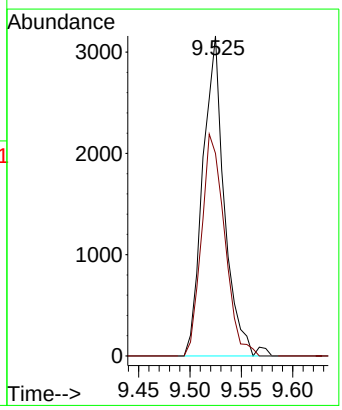


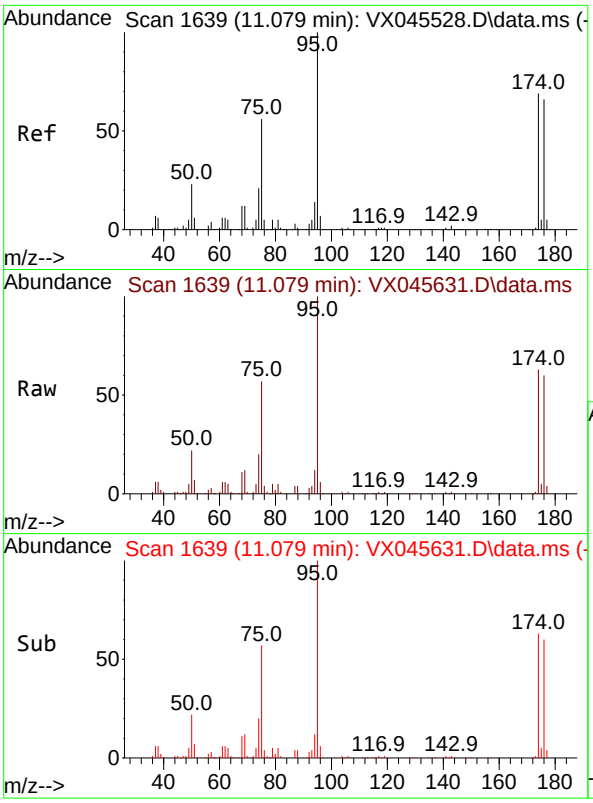


#60
Dibromochloromethane
Concen: 5.016 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion:129 Resp: 4623

Ion	Ratio	Lower	Upper
129	100		
127	74.2	39.4	118.2



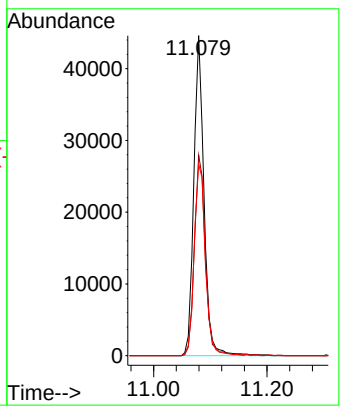


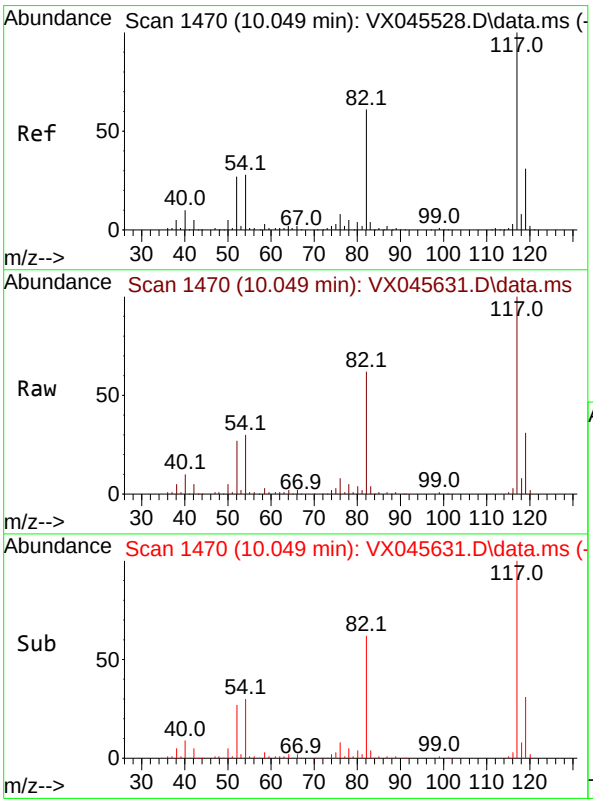
#62
4-Bromofluorobenzene
Concen: 51.609 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Tgt Ion: 95 Resp: 55792

Ion	Ratio	Lower	Upper
95	100		
174	66.9	0.0	135.8
176	65.6	0.0	131.4

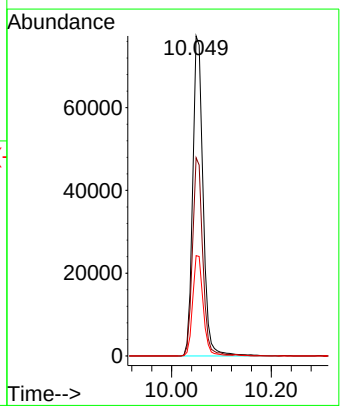


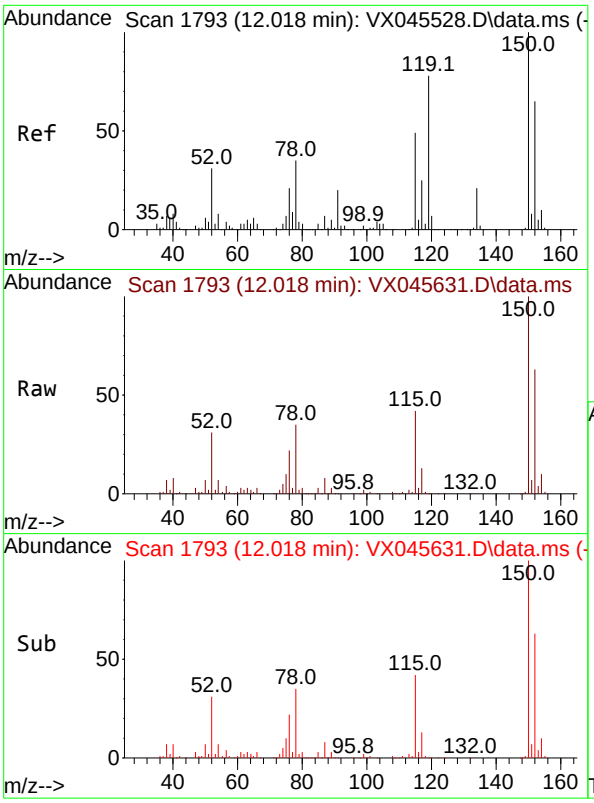


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Tgt Ion:117 Resp: 111495

Ion	Ratio	Lower	Upper
117	100		
82	62.0	49.2	73.8
119	31.3	25.1	37.7



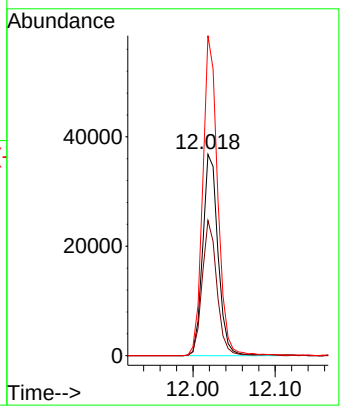


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045631.D
Acq: 07 Apr 2025 16:08

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Tgt Ion:152 Resp: 47595

Ion	Ratio	Lower	Upper
152	100		
115	64.4	46.9	140.7
150	155.0	0.0	349.4



Sample Results: **VX045631.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045631.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	35	rBV3	2846	5693	1.35%	0.161%
2	1.447	56	59	66	rBV	7716	9607	2.27%	0.272%
3	1.581	69	81	82	rBV3	4797	11129	2.63%	0.315%
4	2.386	206	213	222	rBV	7182	12719	3.01%	0.360%
5	3.331	359	368	374	rBV4	2333	5844	1.38%	0.166%
6	5.087	645	656	671	rBV	40832	124395	29.42%	3.524%
7	5.379	692	704	720	rBV	51059	152838	36.15%	4.330%
8	5.544	722	731	742	rBV	69811	199402	47.16%	5.650%
9	5.952	789	798	815	rBV	60848	164489	38.91%	4.660%
10	6.757	921	930	944	rBV	123693	302729	71.60%	8.577%
11	7.818	1098	1104	1115	rBV	21838	42493	10.05%	1.204%
12	8.647	1233	1240	1246	rBV	269374	422784	100.00%	11.979%
13	8.714	1246	1251	1271	rVB	145252	240678	56.93%	6.819%
14	9.525	1377	1384	1398	rVB2	9829	17773	4.20%	0.504%
15	10.049	1465	1470	1480	rBV	267449	379650	89.80%	10.757%
16	11.079	1634	1639	1652	rBV	214049	277960	65.75%	7.875%
17	12.018	1788	1793	1801	rBV	262383	326602	77.25%	9.254%
18	12.085	1801	1804	1809	rVB2	4688	6636	1.57%	0.188%
19	12.219	1822	1826	1828	rBV3	4415	6582	1.56%	0.186%
20	12.250	1828	1831	1832	rVV2	6868	9337	2.21%	0.265%
21	12.268	1832	1834	1837	rVV	11914	12867	3.04%	0.365%
22	12.317	1837	1842	1851	rVB2	26410	39932	9.45%	1.131%
23	12.463	1862	1866	1871	rVB	10048	12378	2.93%	0.351%
24	12.530	1873	1877	1879	rBV	28111	36552	8.65%	1.036%
25	12.555	1879	1881	1886	rVV	28640	30734	7.27%	0.871%
26	12.610	1886	1890	1900	rVB	60696	77674	18.37%	2.201%
27	12.719	1901	1908	1914	rVB4	10945	22770	5.39%	0.645%
28	12.792	1914	1920	1924	rVB3	3427	4887	1.16%	0.138%
29	12.847	1924	1929	1934	rBV	20214	26694	6.31%	0.756%
30	12.921	1934	1941	1944	rBV	59716	72402	17.13%	2.051%
31	12.963	1944	1948	1954	rVB	90258	114576	27.10%	3.246%
32	13.024	1954	1958	1959	rBV2	7361	8673	2.05%	0.246%
33	13.042	1959	1961	1963	rVV2	9210	9576	2.26%	0.271%
34	13.067	1963	1965	1968	rVB	9176	9352	2.21%	0.265%
35	13.164	1975	1981	1986	rBV2	23535	32654	7.72%	0.925%
36	13.207	1986	1988	1991	rVB2	3996	4267	1.01%	0.121%

Sample Results: **VX045631.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

37	13.256	1991	1996	1998	rBV2	12464	18961	4.48%	0.537%
38	13.286	1998	2001	2011	rVB2	64441	104214	24.65%	2.953%
39	13.372	2011	2015	2020	rVB	11552	15102	3.57%	0.428%
40	13.500	2032	2036	2040	rBV3	3504	4884	1.16%	0.138%
41	13.573	2044	2048	2051	rBV2	20951	30480	7.21%	0.864%
42	13.676	2060	2065	2070	rBV	12814	16137	3.82%	0.457%
43	13.774	2073	2081	2089	rVB	40857	58892	13.93%	1.669%
44	13.926	2099	2106	2110	rBV2	5101	7770	1.84%	0.220%
45	14.073	2127	2130	2135	rVB	6983	8132	1.92%	0.230%
46	14.213	2146	2153	2159	rBV2	5446	7969	1.88%	0.226%
47	14.317	2166	2170	2175	rBV	8270	10422	2.47%	0.295%
48	14.640	2219	2223	2228	rBV	4637	6758	1.60%	0.191%
49	14.780	2240	2246	2252	rBV3	2801	4403	1.04%	0.125%

Sum of corrected areas: 3529452

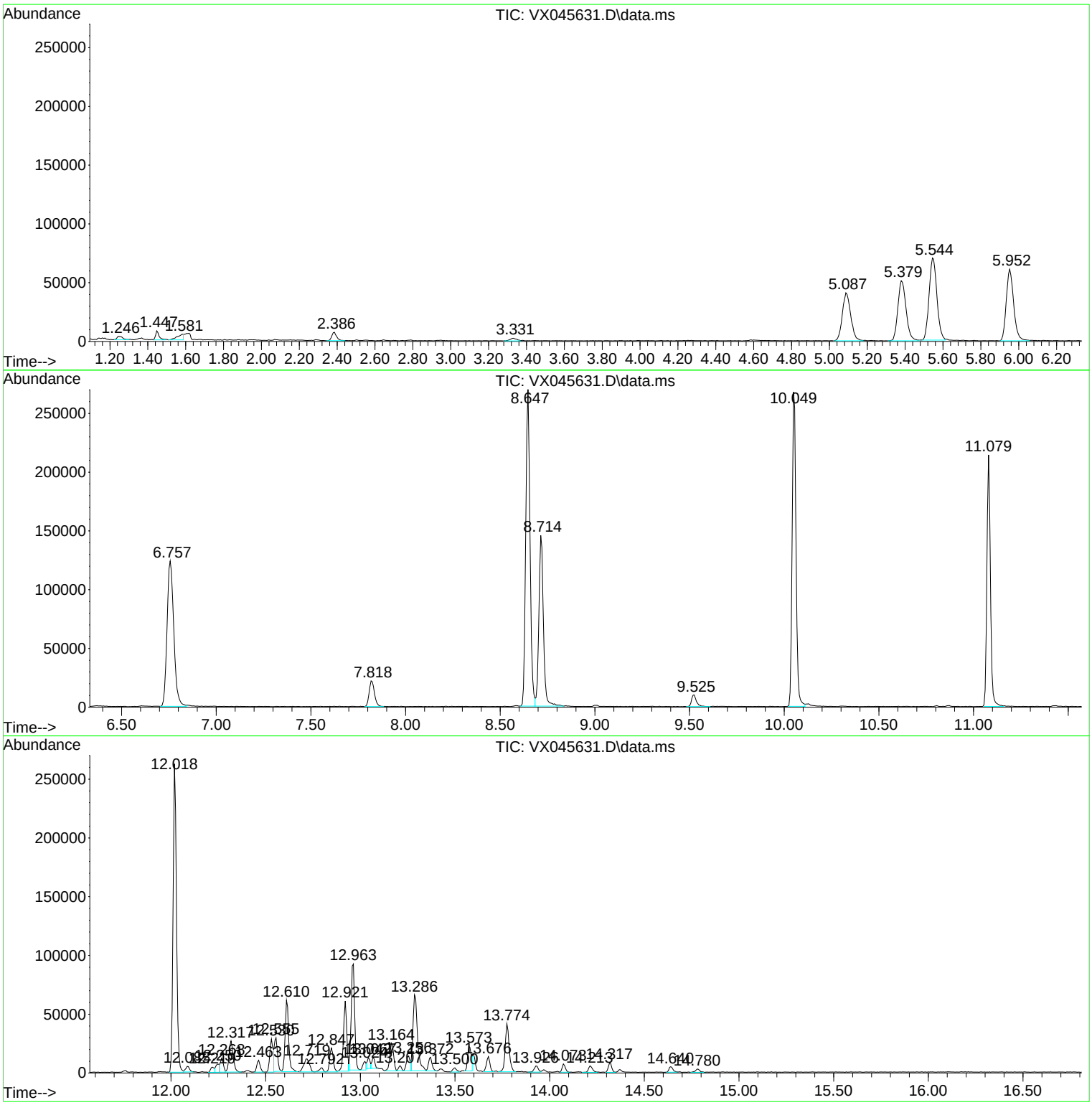
Sample Results: **VX045631.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

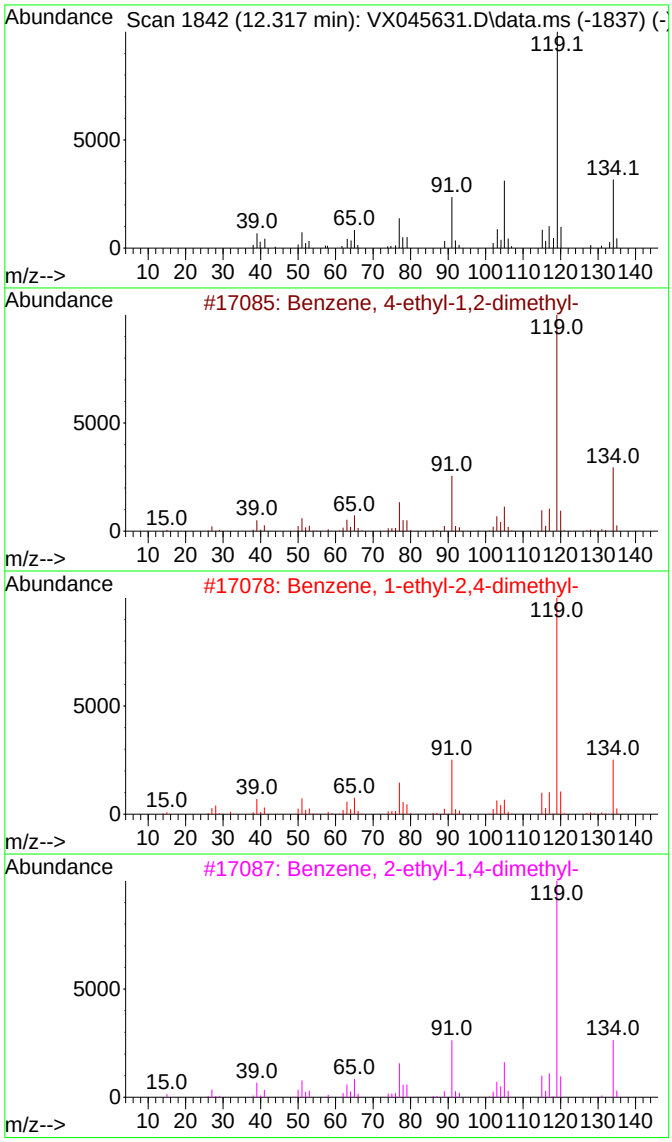
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

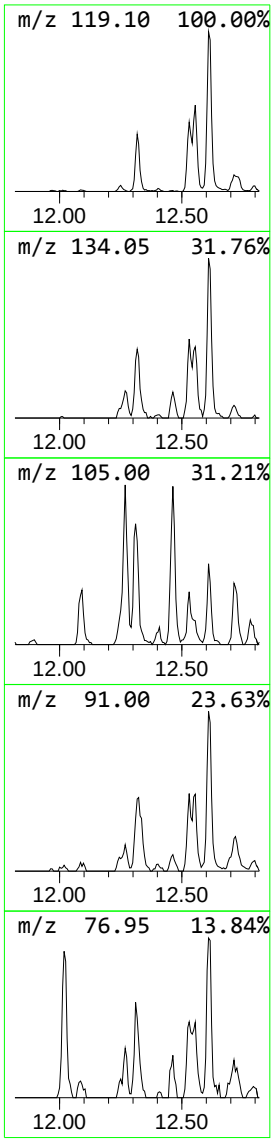
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.317	6.11 ug/l	39932	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93
4	o-Cymene	134	C10H14	000527-84-4	93
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

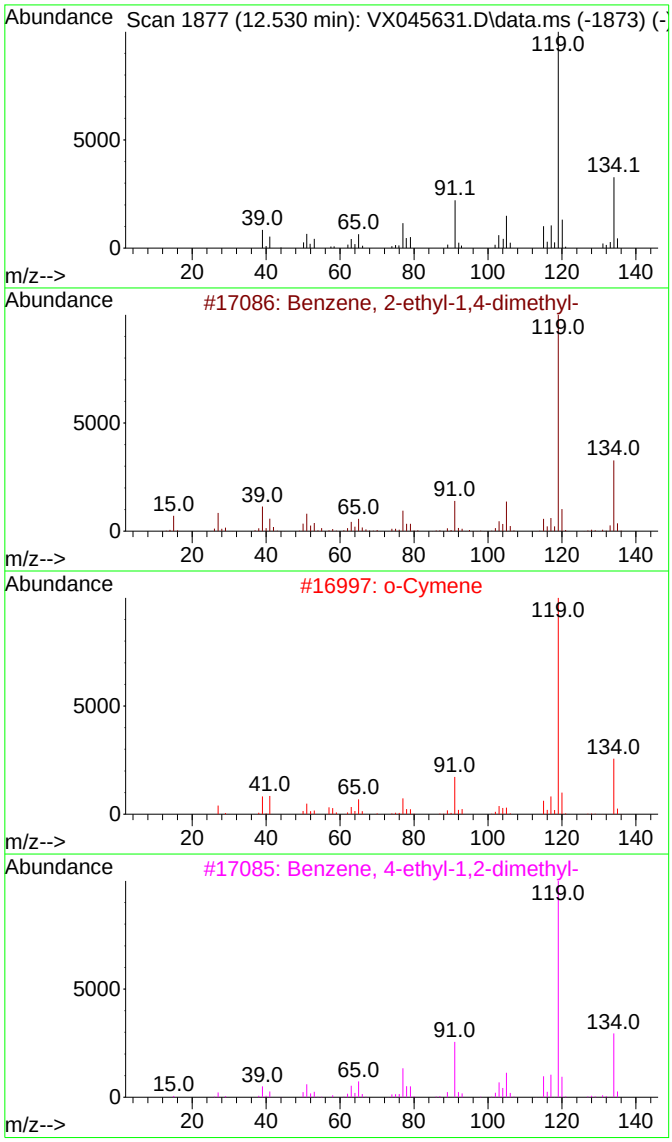
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

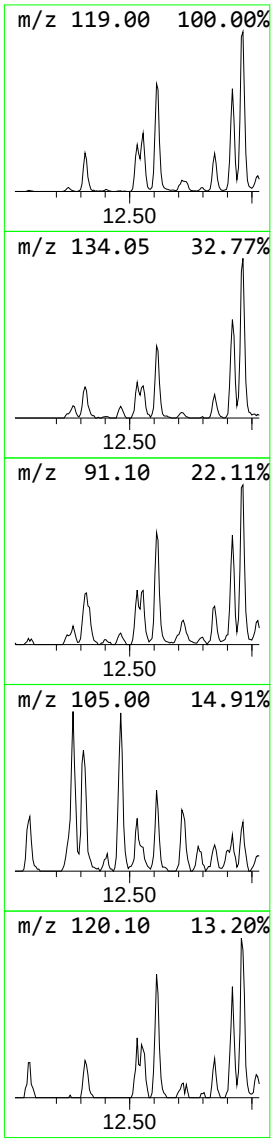
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.530	5.60 ug/l	36552	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

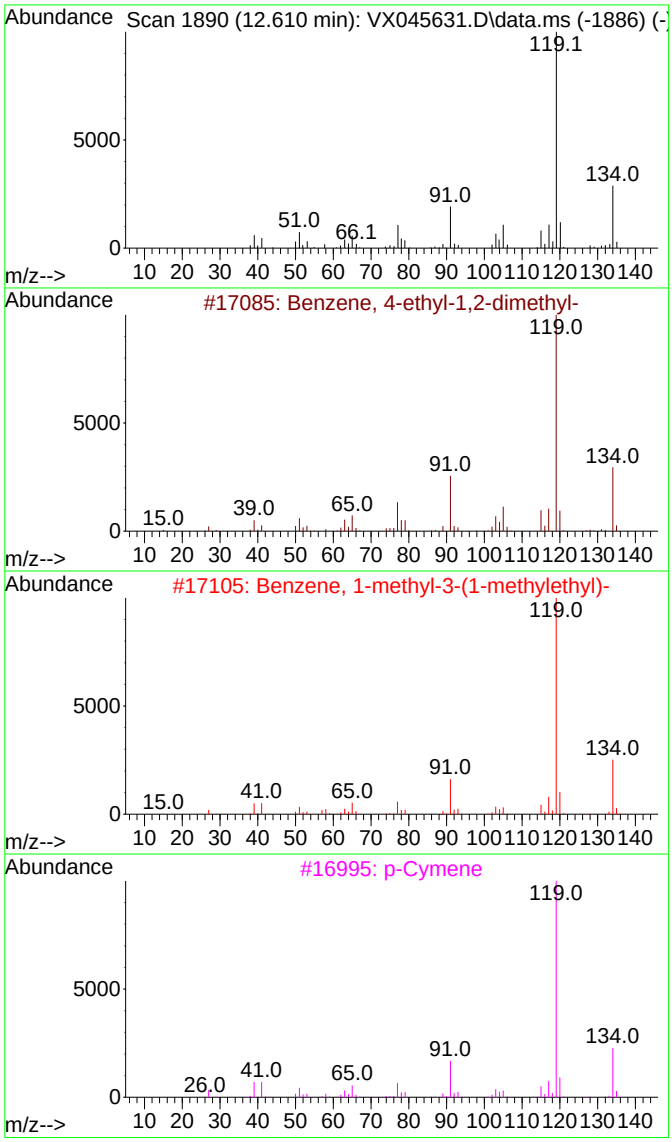
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

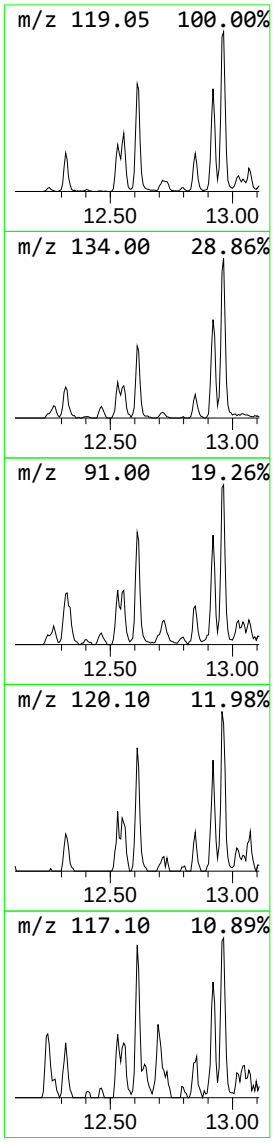
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1-methyl-3-(1-meth... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.610	11.89 ug/l	77674	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

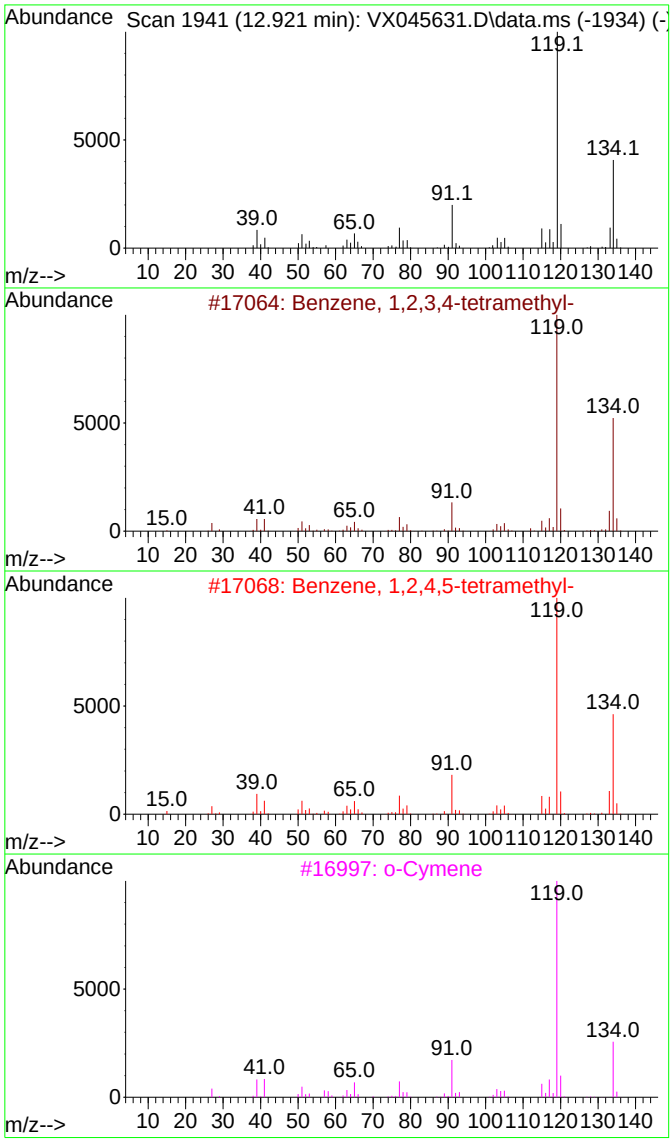
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

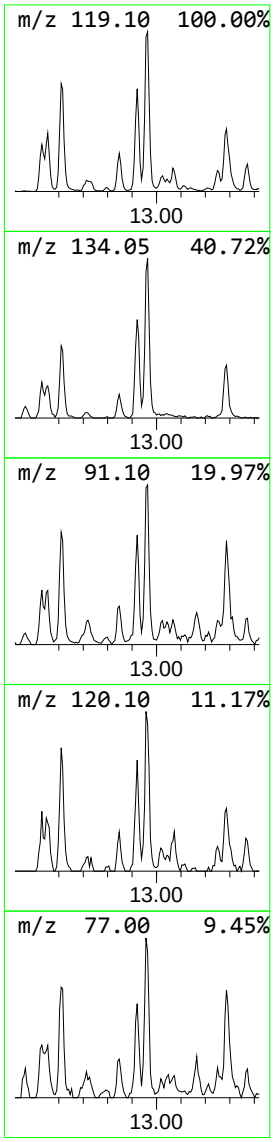
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.921	11.08 ug/l	72402	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	96
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	94
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

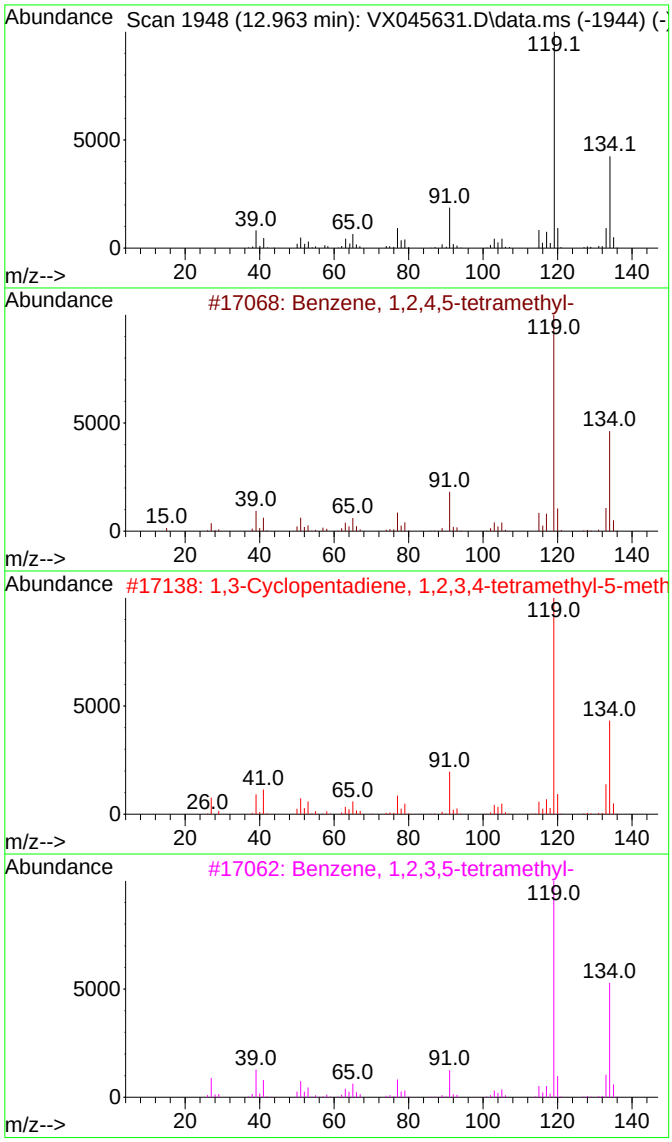
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

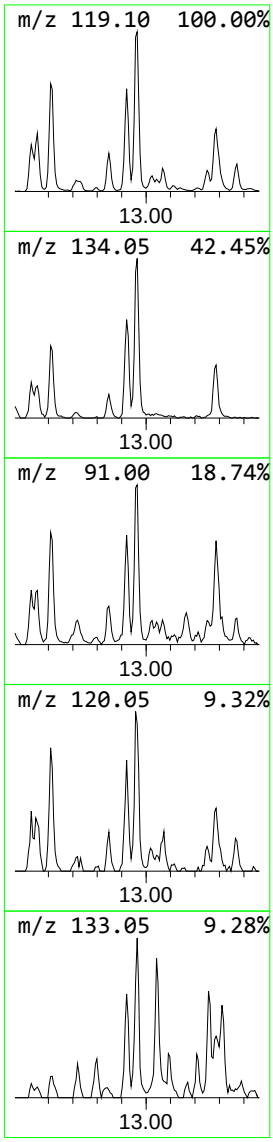
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.963	17.54 ug/l	114576	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
2	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5	o-Cymene	134	C10H14	000527-84-4	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

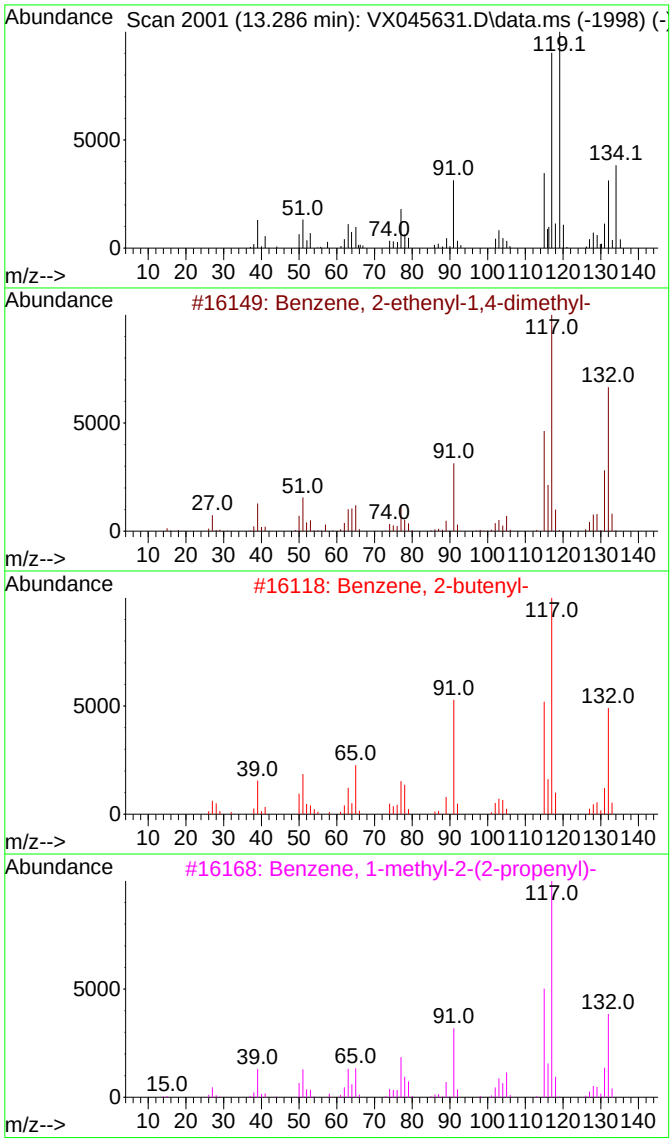
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

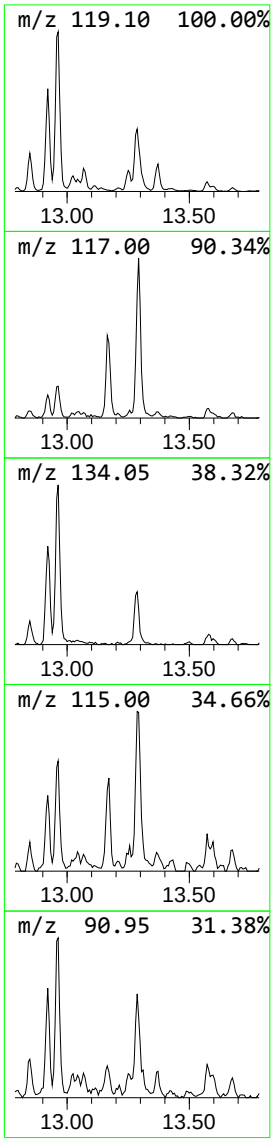
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.286	15.95 ug/l	104214	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	89
2	Benzene, 2-butenyl-	132	C10H12	001560-06-1	87
3	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	64
4	Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	64
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	55





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

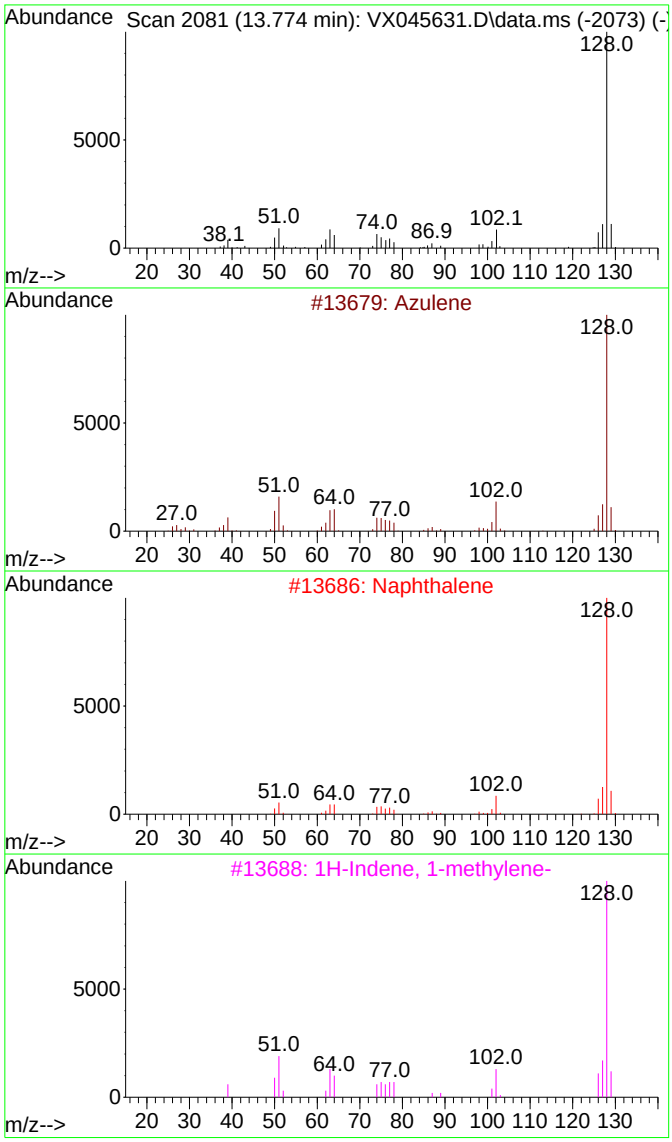
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

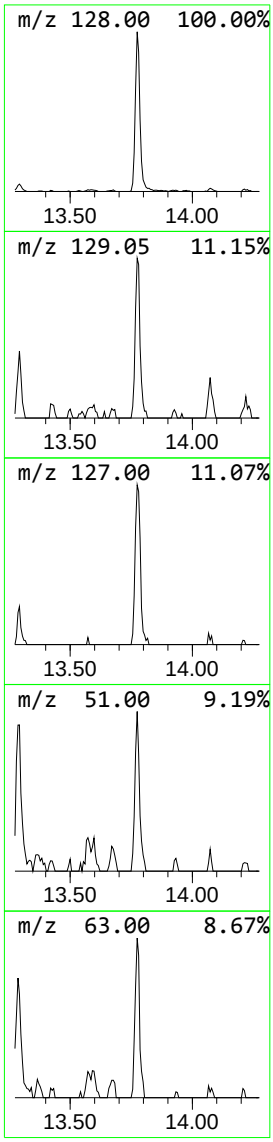
****

Peak Number 7 Azulene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.774	9.02 ug/l	58892	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Azulene	128	C10H8	000275-51-4	95
2	Naphthalene	128	C10H8	000091-20-3	94
3	1H-Indene, 1-methylene-	128	C10H8	002471-84-3	80
4	4a,8a-(Methaniminomethano)naphth...	275	C18H13NO2	069915-10-2	64
5	[4.2.2]Propella-2,4,7,9-tetraene	128	C10H8	088090-34-0	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045631.D
Acq On : 07 Apr 2025 16:08
Operator : JC/MD
Sample : Q1746-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 4-ethy...	12.317	6.1	ug/l	39932	4	12.018	326602	50.0
Benzene, 2-ethy...	12.530	5.6	ug/l	36552	4	12.018	326602	50.0
Benzene, 1-meth...	12.610	11.9	ug/l	77674	4	12.018	326602	50.0
Benzene, 1,2,3,...	12.921	11.1	ug/l	72402	4	12.018	326602	50.0
Benzene, 1,2,4,...	12.963	17.5	ug/l	114576	4	12.018	326602	50.0
Benzene, 2-ethe...	13.286	15.9	ug/l	104214	4	12.018	326602	50.0
Azulene	13.774	9.0	ug/l	58892	4	12.018	326602	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Time: Apr 08 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

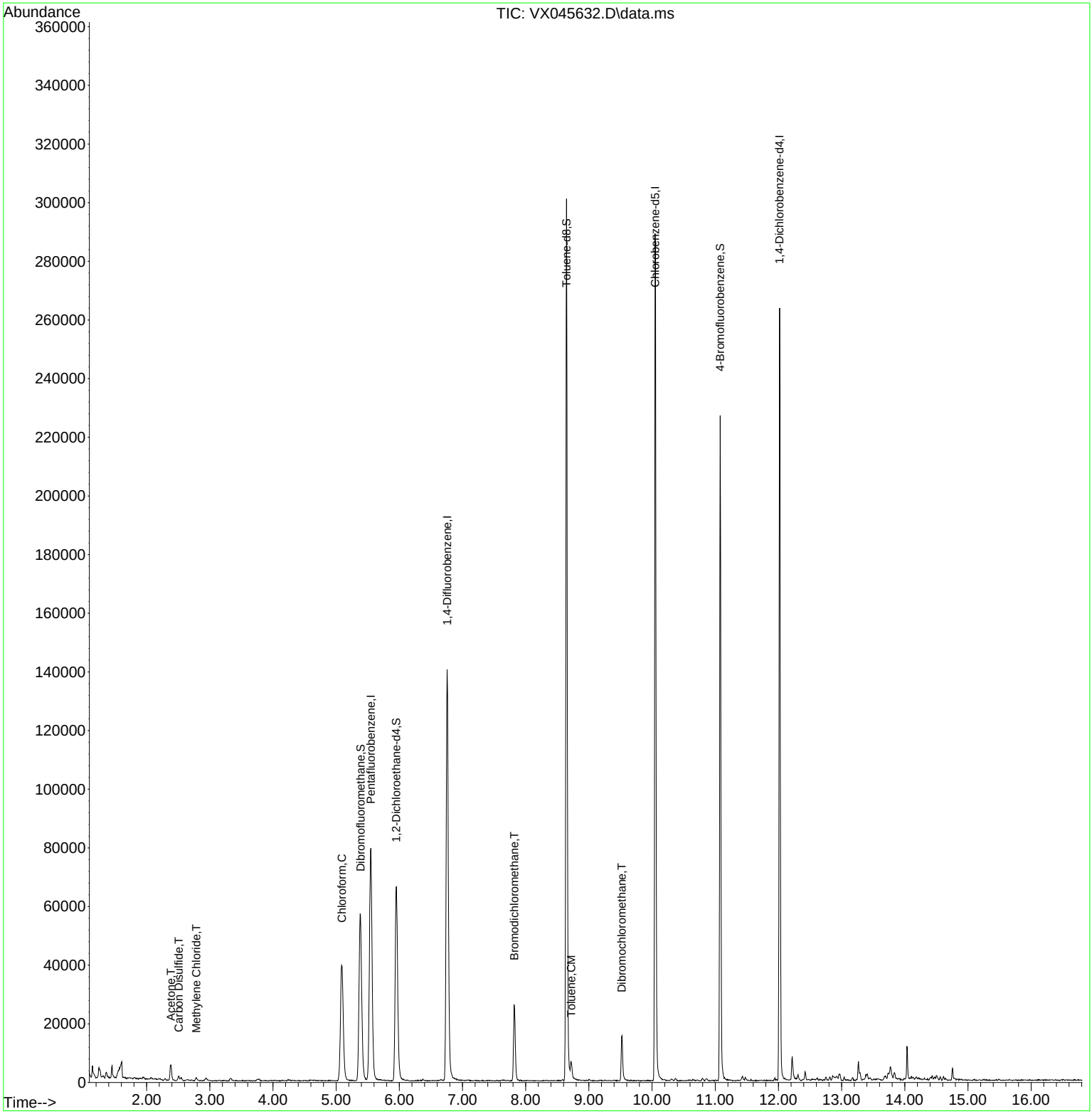
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	67663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133111	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	120863	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48275	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68932	55.708	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.420%			
35) Dibromofluoromethane	5.385	113	48680	51.545	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.080%			
50) Toluene-d8	8.647	98	164404	49.874	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.740%			
62) 4-Bromofluorobenzene	11.079	95	59141	49.255	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.500%			
Target Compounds						Qvalue
16) Acetone	2.386	43	6394	12.584	ug/l	98
17) Carbon Disulfide	2.507	76	2065	1.029	ug/l	95
20) Methylene Chloride	2.788	84	487	0.512	ug/l	89
30) Chloroform	5.092	83	47011	26.609	ug/l	95
47) Bromodichloromethane	7.817	83	16355	10.979	ug/l	93
52) Toluene	8.720	92	2167	0.920	ug/l	100
60) Dibromochloromethane	9.518	129	6185	6.042	ug/l	94

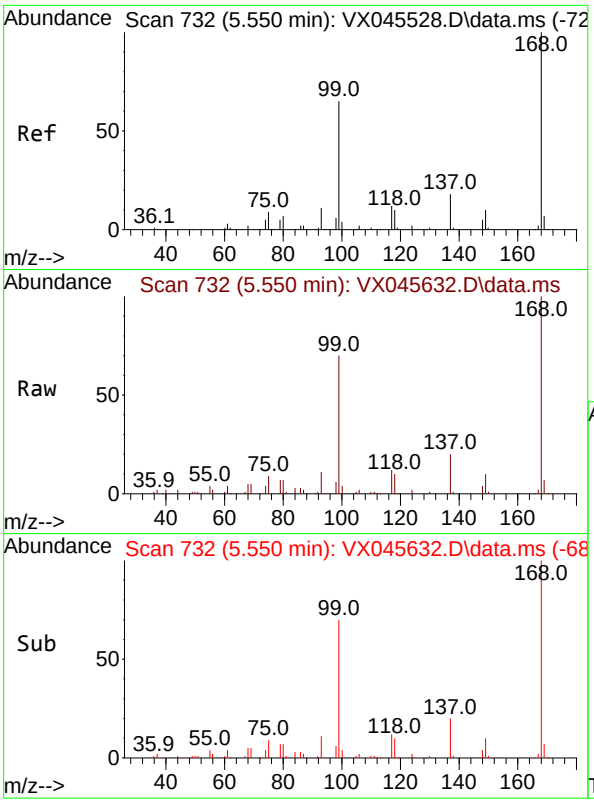
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Time: Apr 08 01:36:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



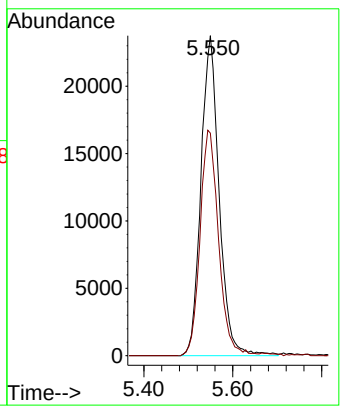


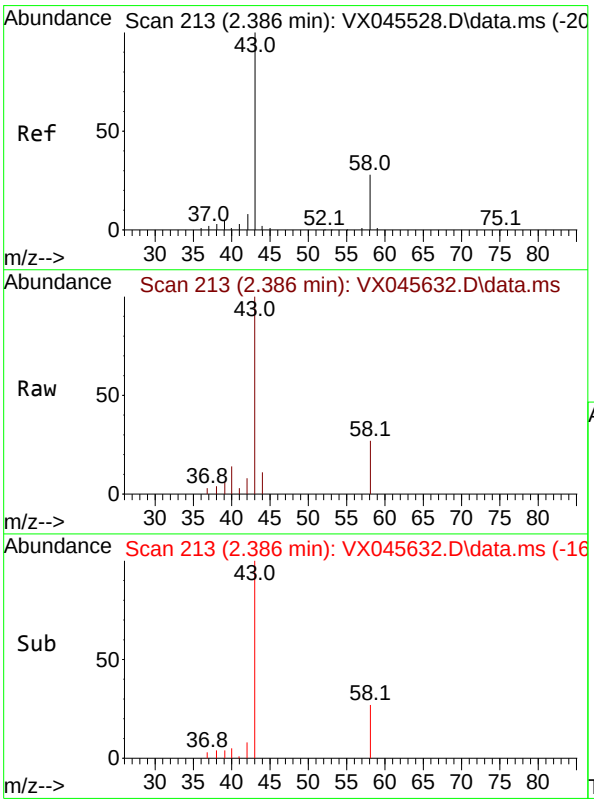
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion:168 Resp: 67663

Ion	Ratio	Lower	Upper
168	100		
99	69.6	52.3	78.5

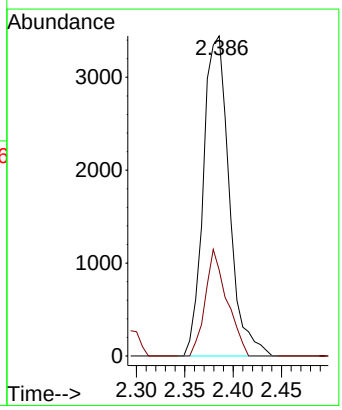


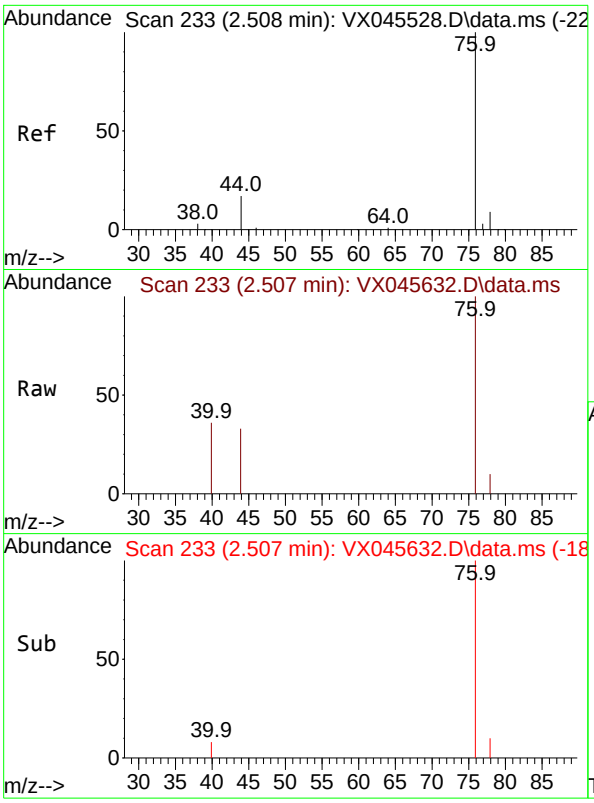


#16
Acetone
Concen: 12.584 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion: 43 Resp: 6394

Ion	Ratio	Lower	Upper
43	100		
58	26.9	22.3	33.5



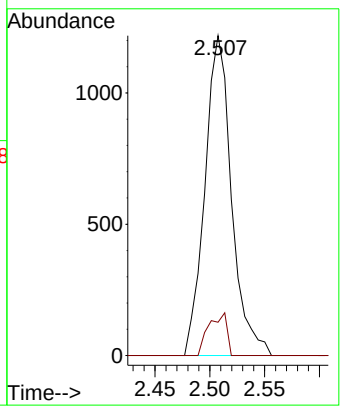


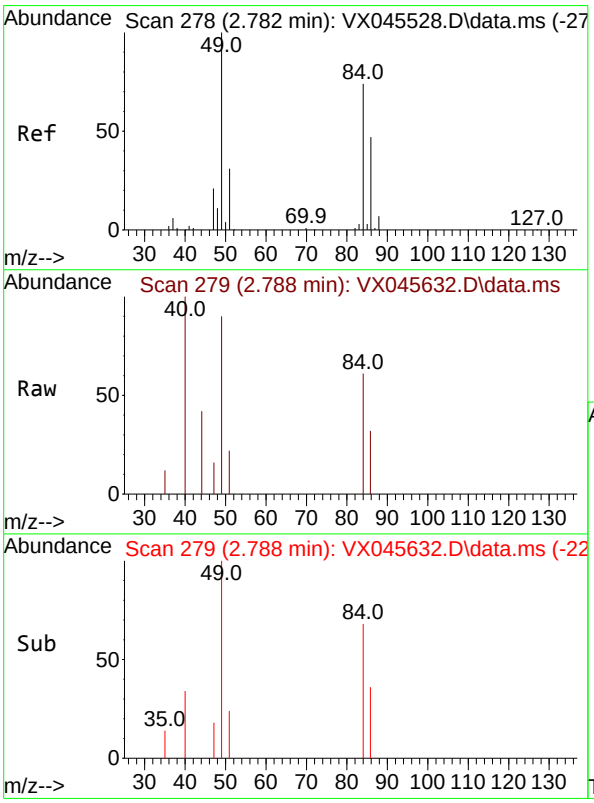
#17
Carbon Disulfide
Concen: 1.029 ug/l
RT: 2.507 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion: 76 Resp: 2065

Ion	Ratio	Lower	Upper
76	100		
78	10.4	7.0	10.6

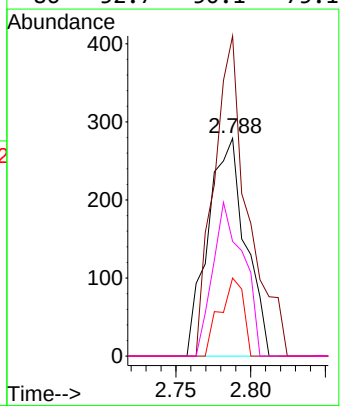


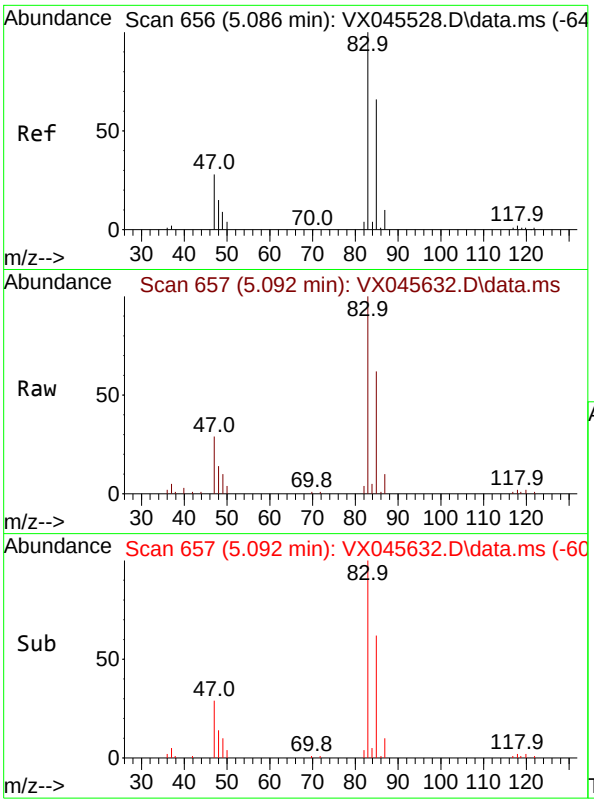


#20
Methylene Chloride
Concen: 0.512 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion: 84 Resp: 487

Ion	Ratio	Lower	Upper
84	100		
49	147.0	107.5	161.3
51	35.8	33.0	49.6
86	52.7	50.1	75.1



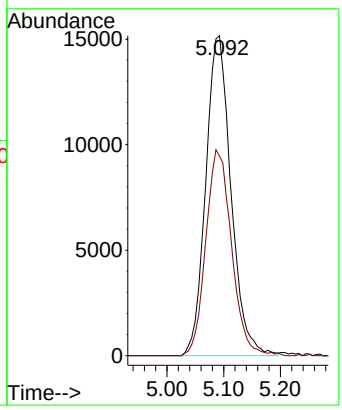


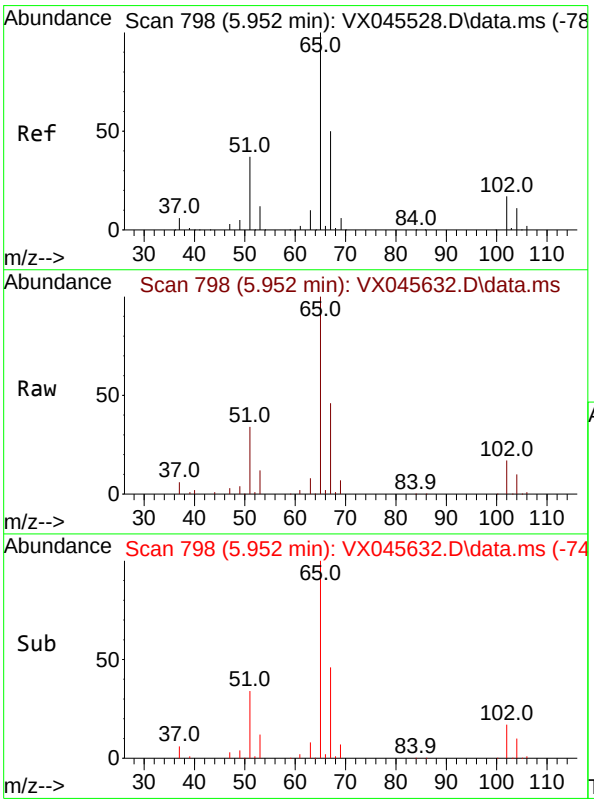
#30
Chloroform
Concen: 26.609 ug/l
RT: 5.092 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion: 83 Resp: 47011

Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.8	79.2

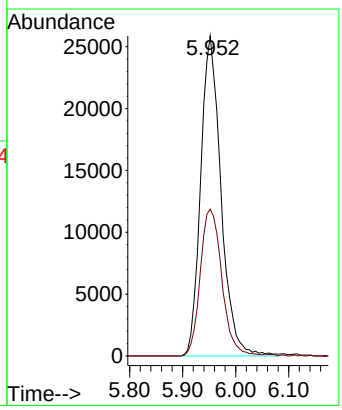


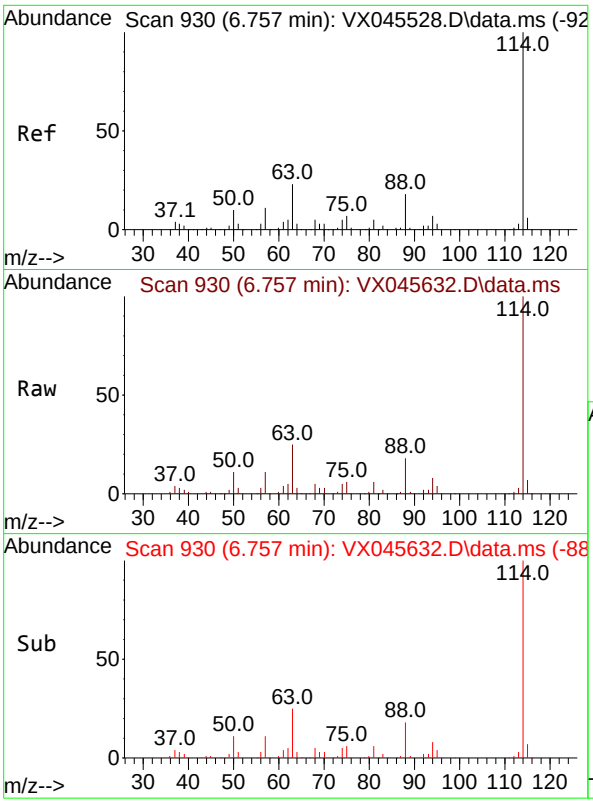


#33
1,2-Dichloroethane-d4
Concen: 55.708 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion: 65 Resp: 68932

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	99.0



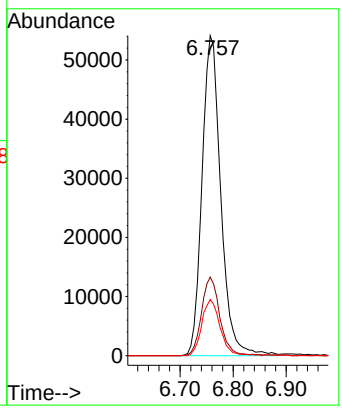


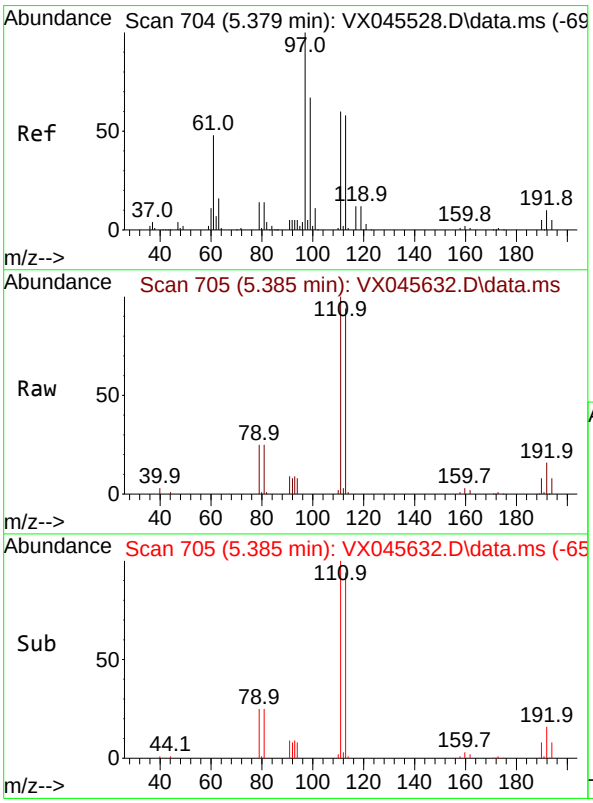
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion:114 Resp: 133111

Ion	Ratio	Lower	Upper
114	100		
63	24.6	0.0	46.8
88	17.5	0.0	35.4

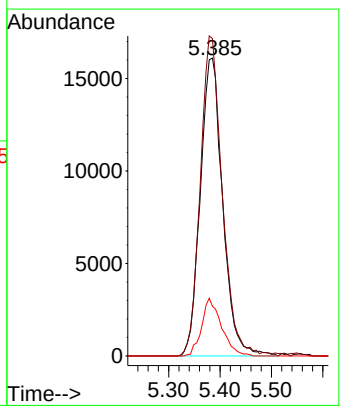


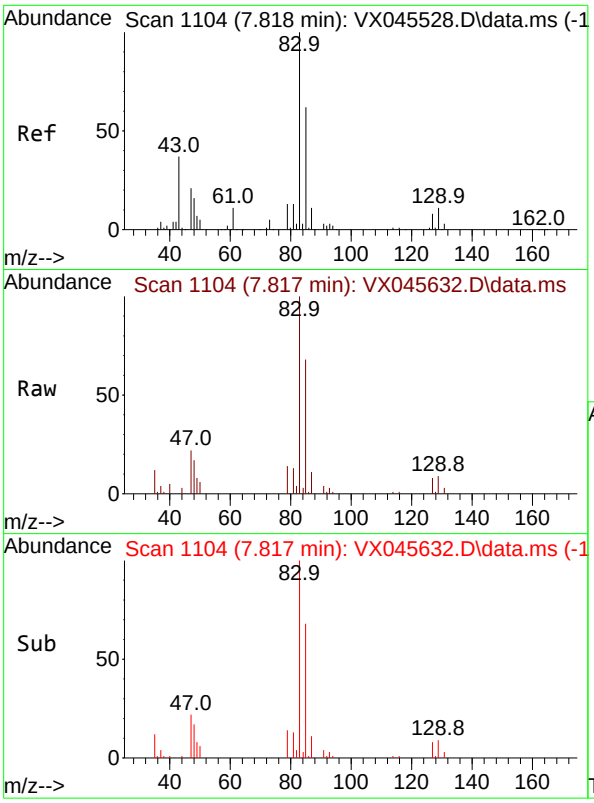


#35
Dibromofluoromethane
Concen: 51.545 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion:113 Resp: 48680

Ion	Ratio	Lower	Upper
113	100		
111	105.4	81.8	122.6
192	17.2	13.8	20.6



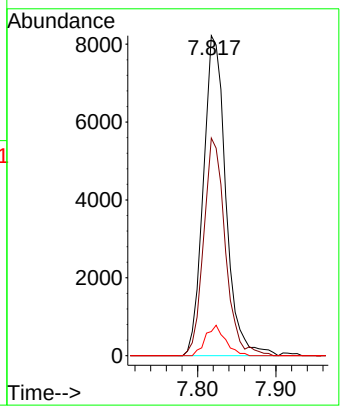


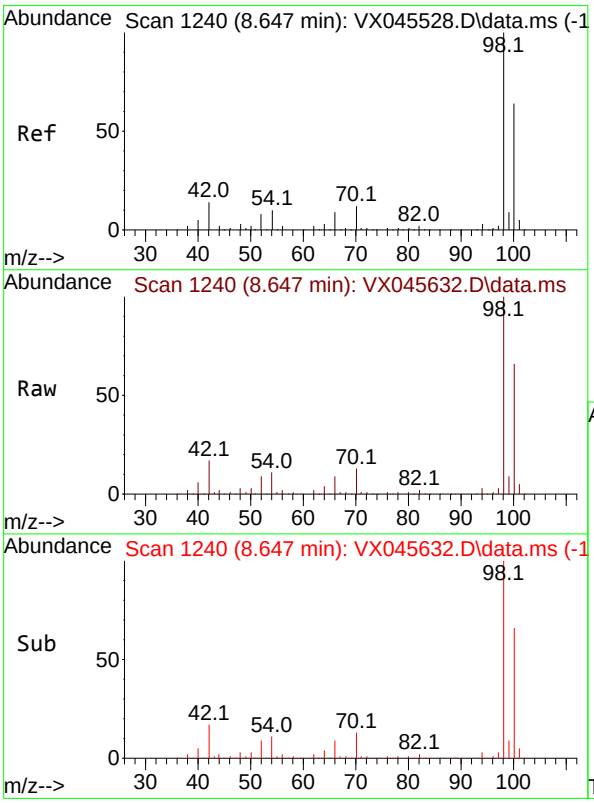
#47
Bromodichloromethane
Concen: 10.979 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion: 83 Resp: 16355

Ion	Ratio	Lower	Upper
83	100		
85	68.0	49.7	74.5
127	7.5	6.1	9.1

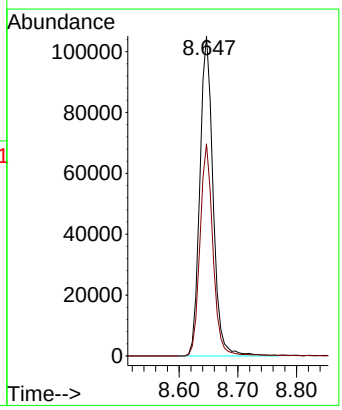


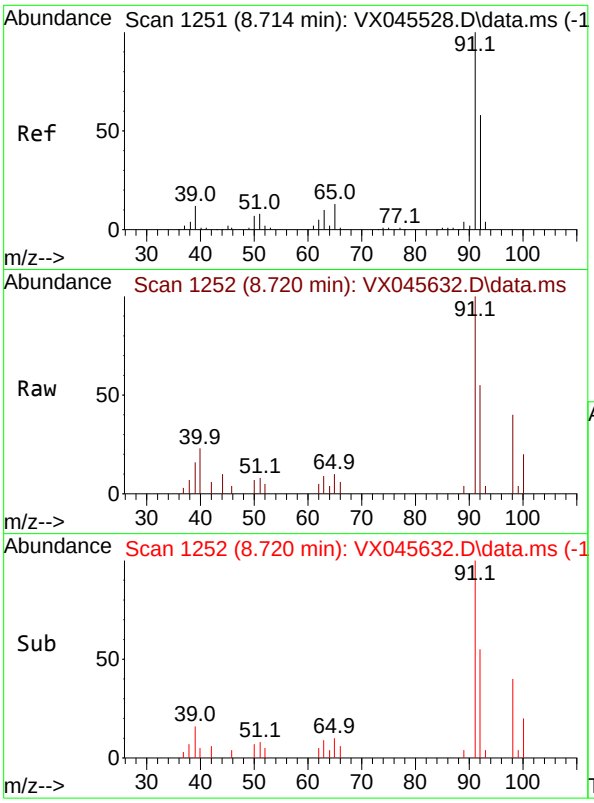


#50
Toluene-d8
Concen: 49.874 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion: 98 Resp: 164404

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.2	78.4



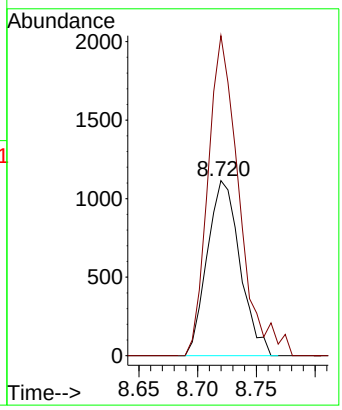


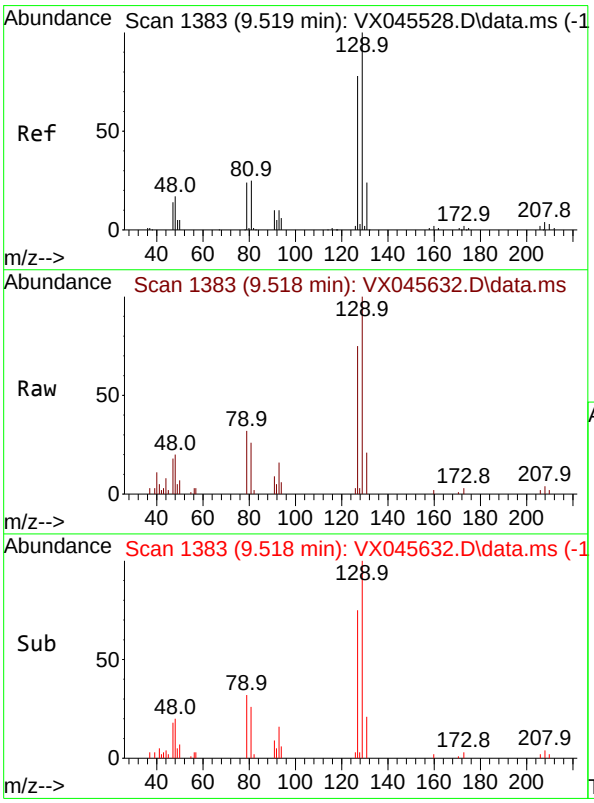
#52
Toluene
Concen: 0.920 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion: 92 Resp: 2167

Ion	Ratio	Lower	Upper
92	100		
91	173.7	138.7	208.1

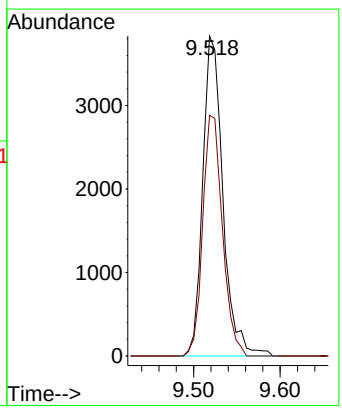


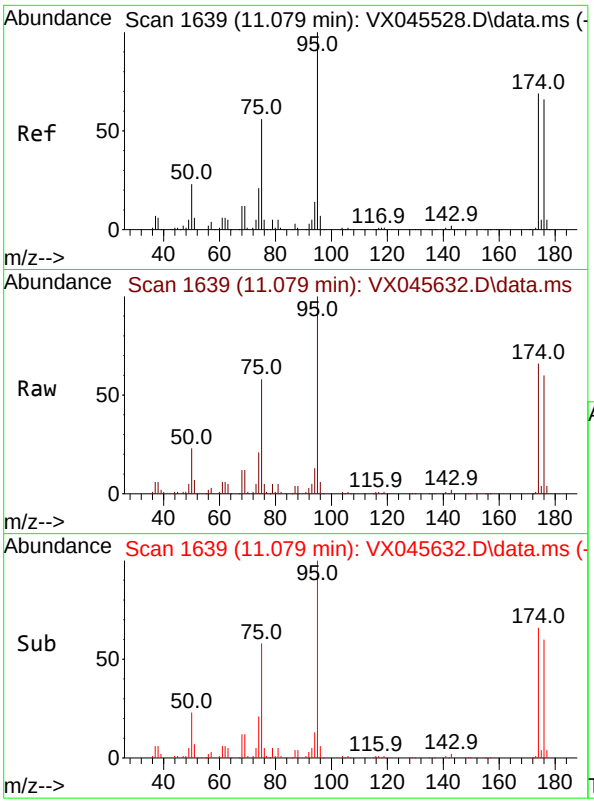


#60
Dibromochloromethane
Concen: 6.042 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion:129 Resp: 6185

Ion	Ratio	Lower	Upper
129	100		
127	73.6	39.4	118.2



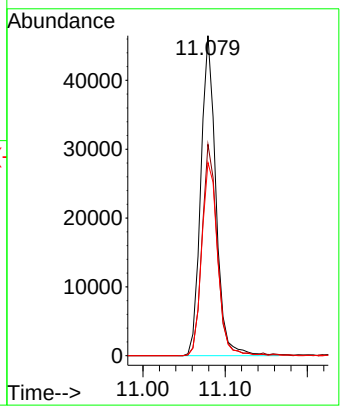


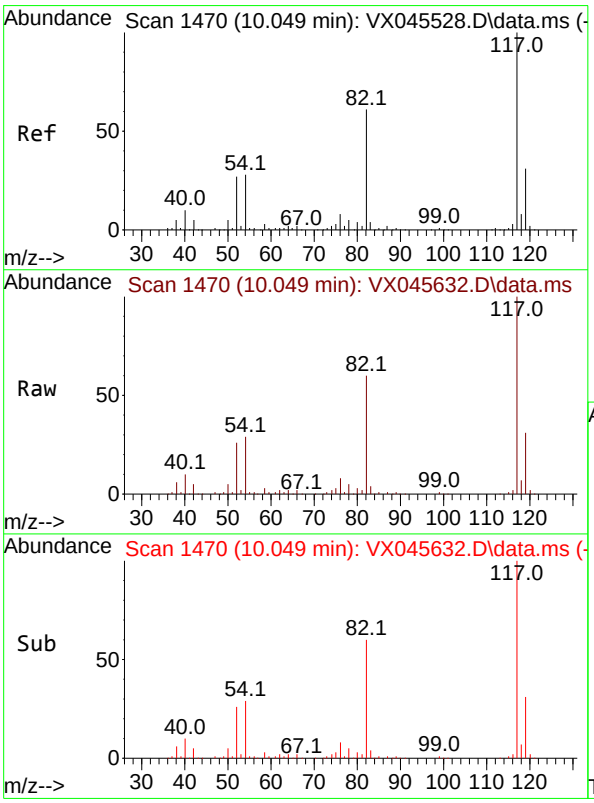
#62
4-Bromofluorobenzene
Concen: 49.255 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion: 95 Resp: 59141

Ion	Ratio	Lower	Upper
95	100		
174	66.3	0.0	135.8
176	64.2	0.0	131.4

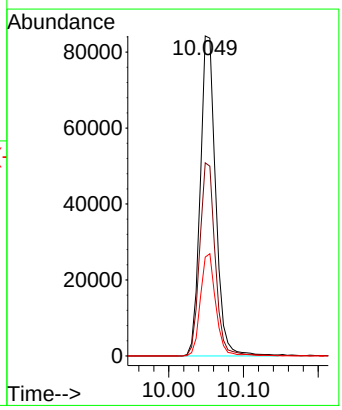


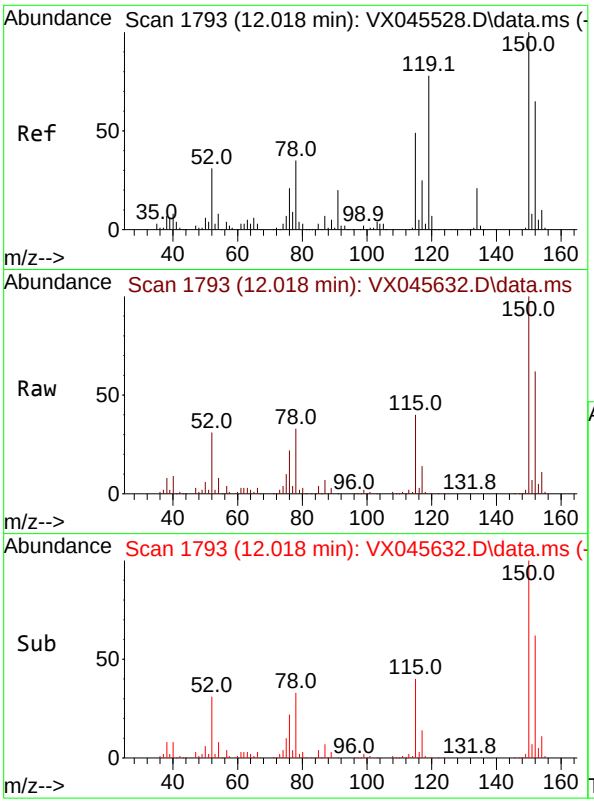


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Tgt Ion:117 Resp: 120863

Ion	Ratio	Lower	Upper
117	100		
82	60.4	49.2	73.8
119	30.9	25.1	37.7



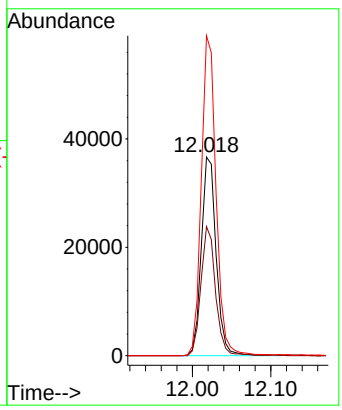


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045632.D
Acq: 07 Apr 2025 16:31

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Tgt Ion:152 Resp: 48275

Ion	Ratio	Lower	Upper
152	100		
115	63.9	46.9	140.7
150	159.7	0.0	349.4



Sample Results: **VX045632.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045632.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	18	rVB2	4182	6383	1.38%	0.235%
2	1.246	21	26	32	rBV4	3486	6817	1.47%	0.251%
3	1.453	56	60	68	rVV	4179	5196	1.12%	0.191%
4	1.605	70	85	88	rBV3	5405	16782	3.63%	0.617%
5	2.386	206	213	220	rBV	5299	9821	2.12%	0.361%
6	5.086	644	656	673	rBV	39420	124067	26.84%	4.559%
7	5.379	694	704	718	rBV	56963	167769	36.30%	6.165%
8	5.550	721	732	746	rVV	78981	226560	49.02%	8.325%
9	5.952	787	798	815	rBV	66321	182842	39.56%	6.719%
10	6.757	921	930	944	rBV	140139	338723	73.28%	12.447%
11	7.817	1098	1104	1113	rBV	25986	49621	10.74%	1.823%
12	8.647	1234	1240	1249	rBV	300439	462223	100.00%	16.985%
13	8.714	1249	1251	1263	rVB2	6103	11770	2.55%	0.433%
14	9.524	1378	1384	1395	rBV3	15377	26979	5.84%	0.991%
15	10.049	1465	1470	1486	rBV	288767	413912	89.55%	15.210%
16	11.079	1634	1639	1649	rBV	226783	293526	63.50%	10.786%
17	12.018	1788	1793	1805	rBV	263344	334426	72.35%	12.289%
18	12.219	1822	1826	1833	rBV2	7899	12759	2.76%	0.469%
19	13.268	1994	1998	2000	rBV3	6288	7557	1.63%	0.278%
20	13.774	2078	2081	2088	rVB4	3788	6550	1.42%	0.241%
21	14.036	2119	2124	2129	rBV2	11170	12181	2.64%	0.448%
22	14.755	2238	2242	2245	rBV	3974	4857	1.05%	0.178%

Sum of corrected areas: 2721321

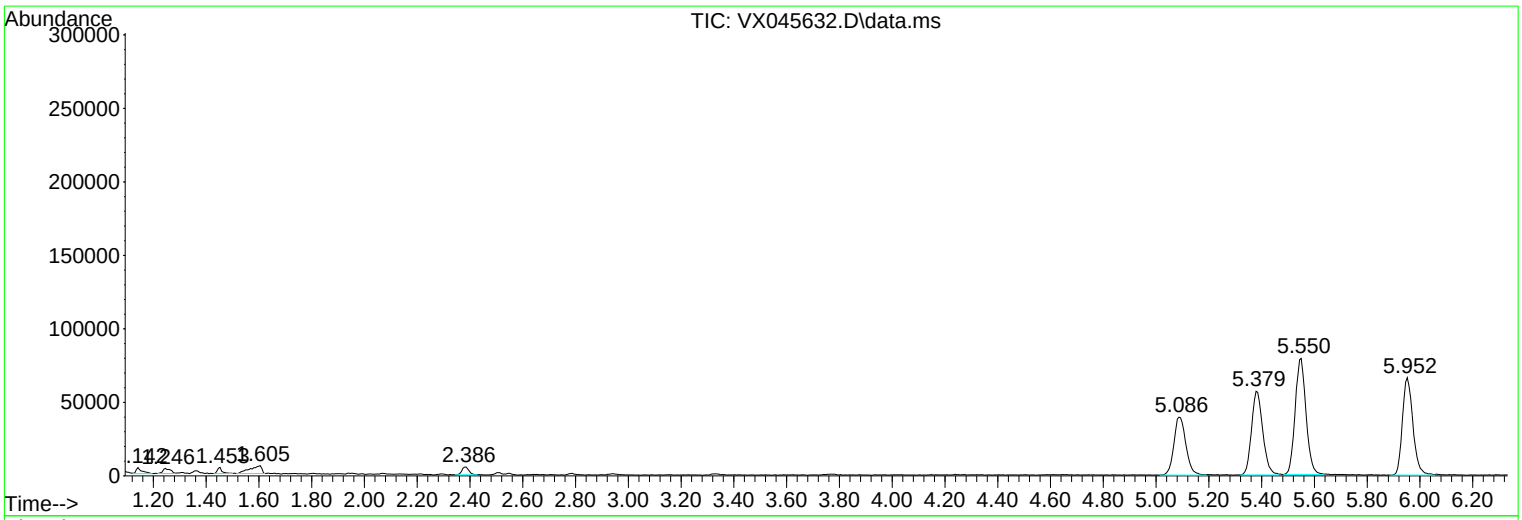
Sample Results: **VX045632.D**

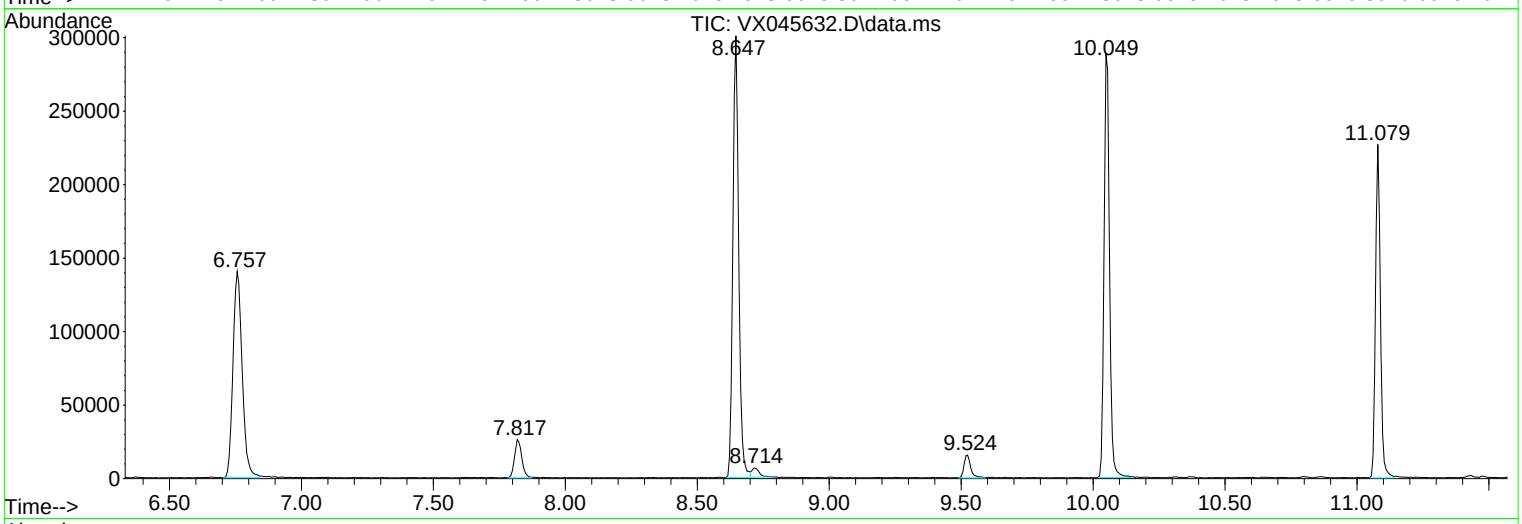
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

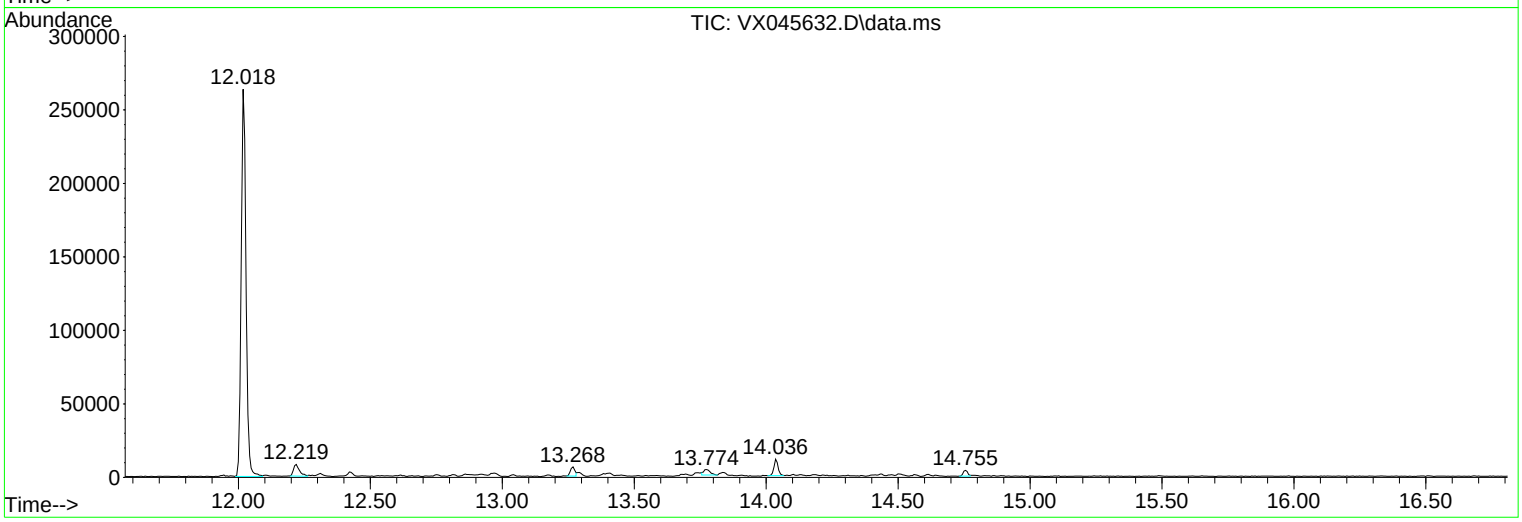
Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VX045632.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045632.D
Acq On : 07 Apr 2025 16:31
Operator : JC/MD
Sample : Q1746-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Time: Apr 09 01:34:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

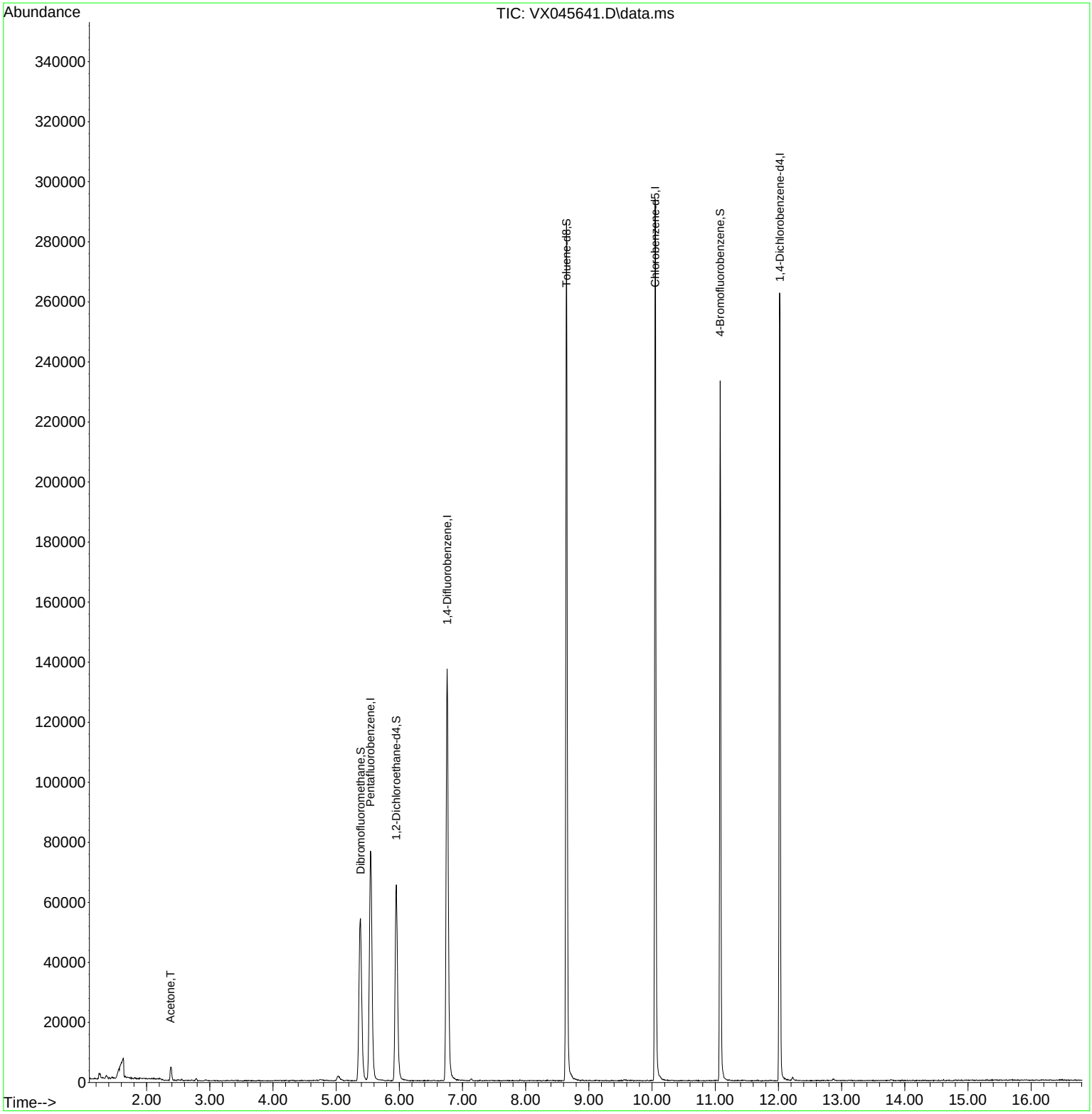
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	65792	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130088	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	121595	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	51094	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66630	55.379	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.760%			
35) Dibromofluoromethane	5.385	113	47792	51.780	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.560%			
50) Toluene-d8	8.646	98	164135	50.949	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.900%			
62) 4-Bromofluorobenzene	11.079	95	61154	52.115	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.220%			
Target Compounds						Qvalue
16) Acetone	2.379	43	5243	10.612	ug/l	94

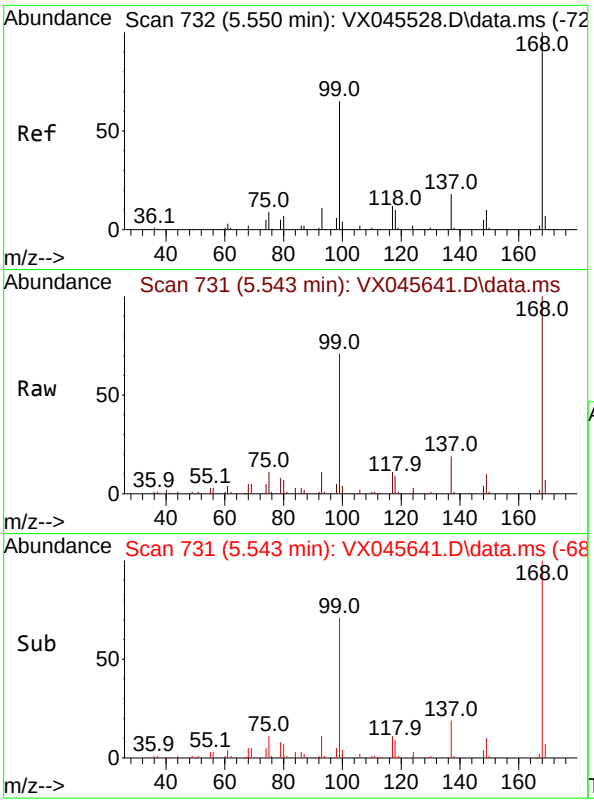
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Time: Apr 09 01:34:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



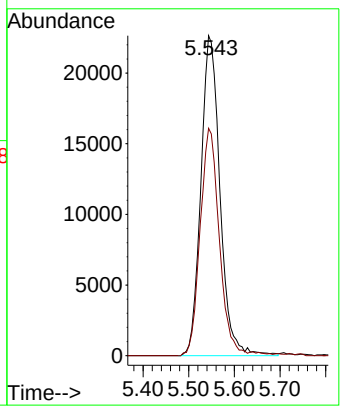


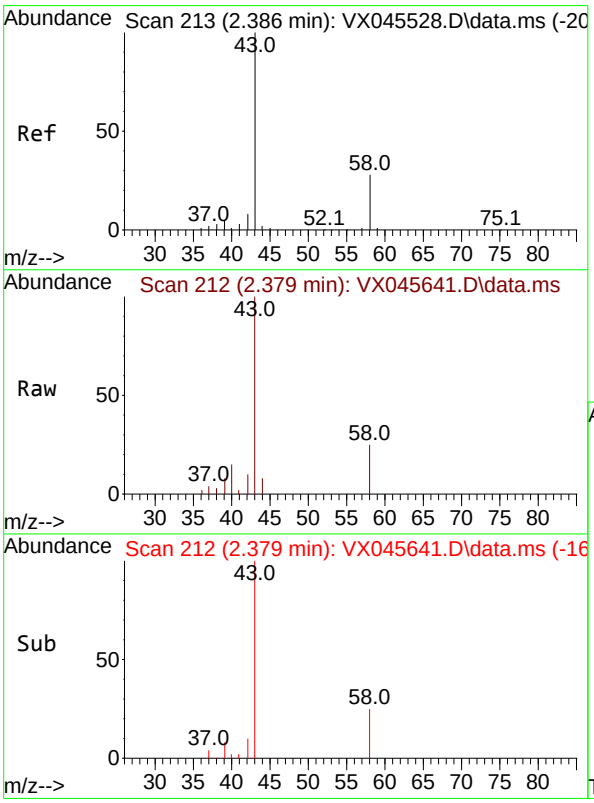
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Tgt Ion:168 Resp: 65792

Ion	Ratio	Lower	Upper
168	100		
99	71.1	52.3	78.5

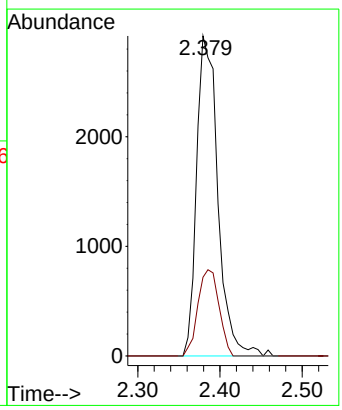


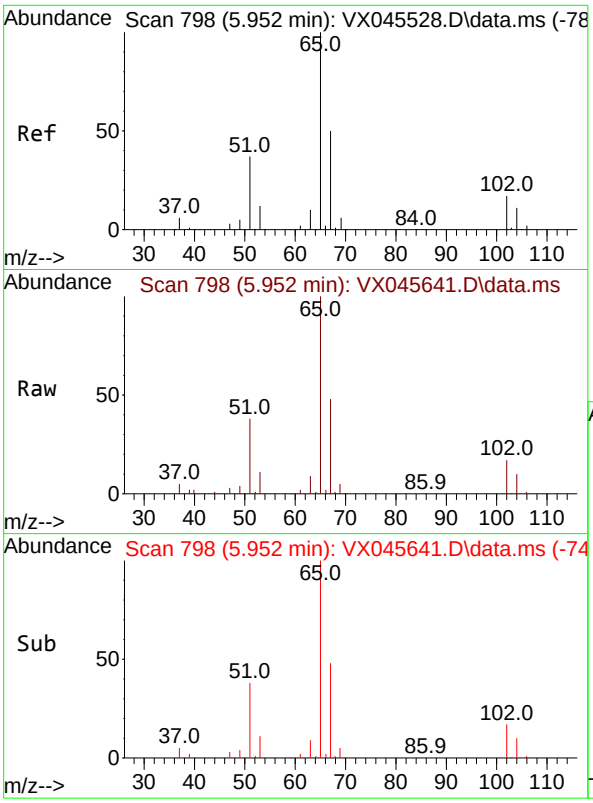


#16
Acetone
Concen: 10.612 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 43 Resp: 5243

Ion	Ratio	Lower	Upper
43	100		
58	24.6	22.3	33.5



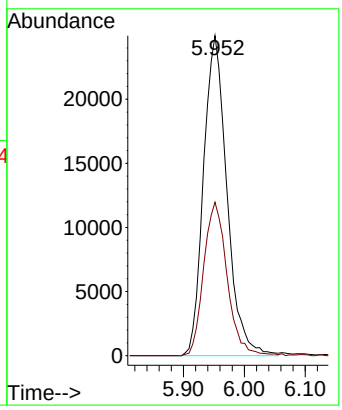


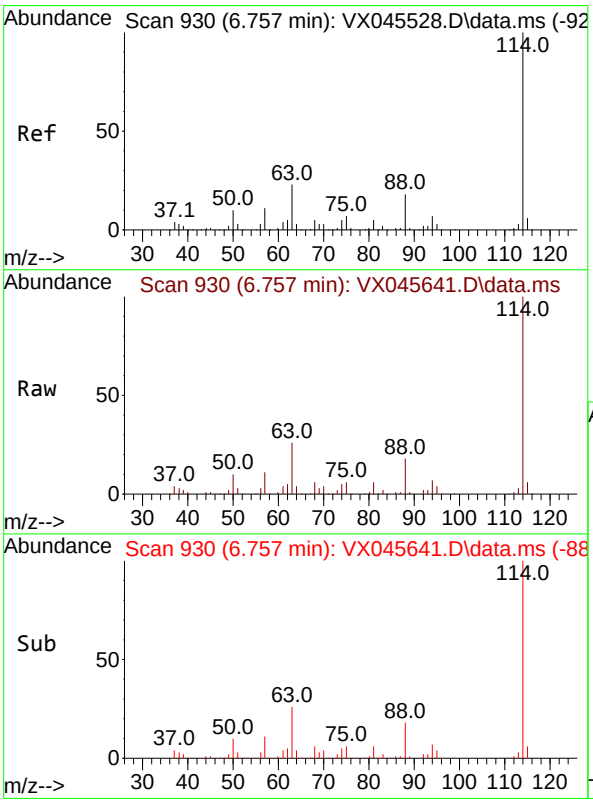
#33
1,2-Dichloroethane-d4
Concen: 55.379 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Tgt Ion: 65 Resp: 66630

Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	99.0

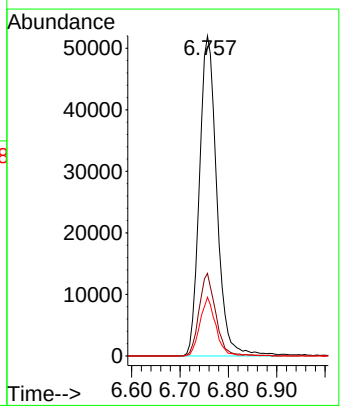


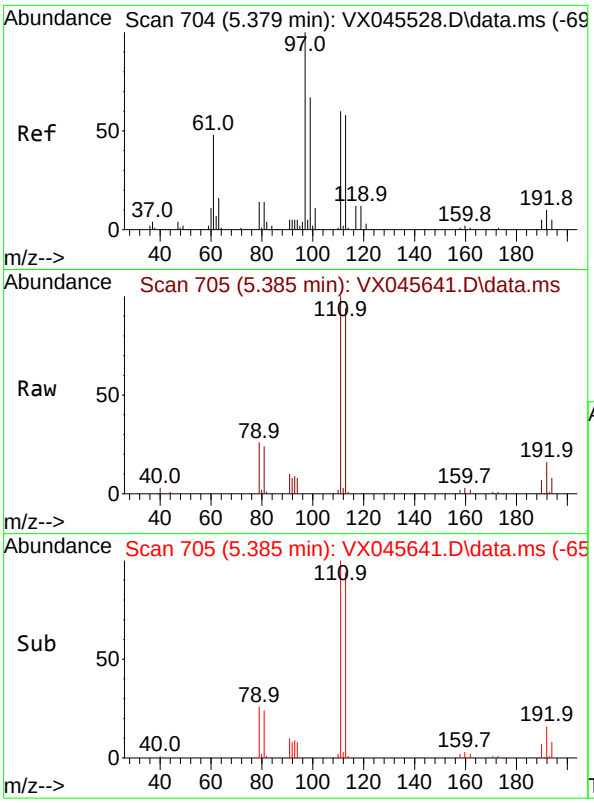


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Tgt Ion:114 Resp: 130088

Ion	Ratio	Lower	Upper
114	100		
63	25.8	0.0	46.8
88	18.4	0.0	35.4



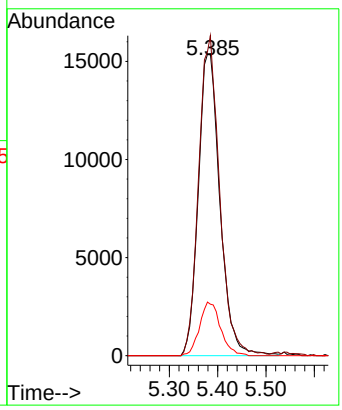


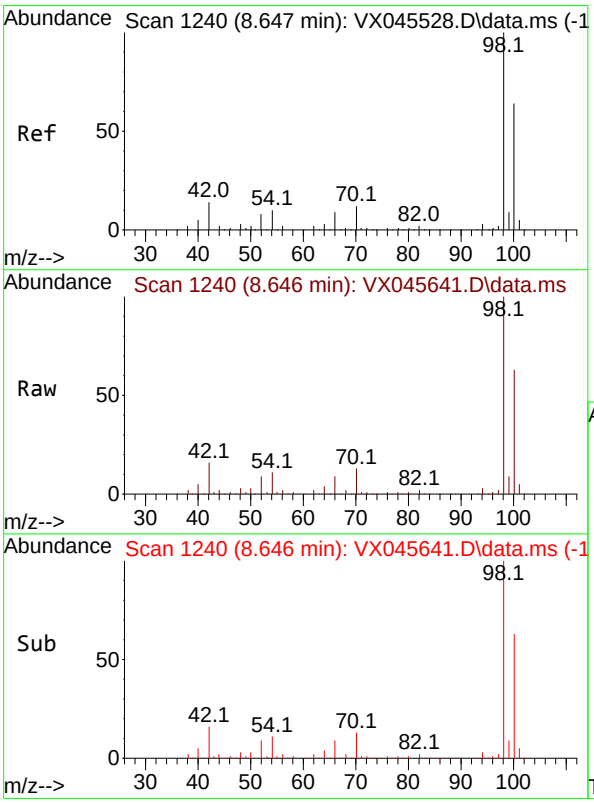
#35
Dibromofluoromethane
Concen: 51.780 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Tgt Ion:113 Resp: 47792

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.8	122.6
192	17.3	13.8	20.6

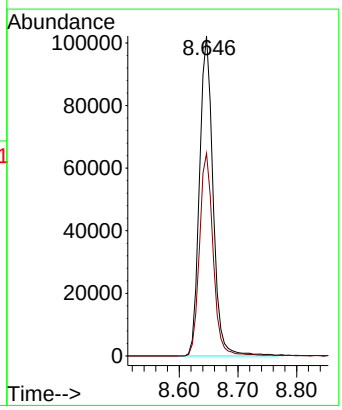


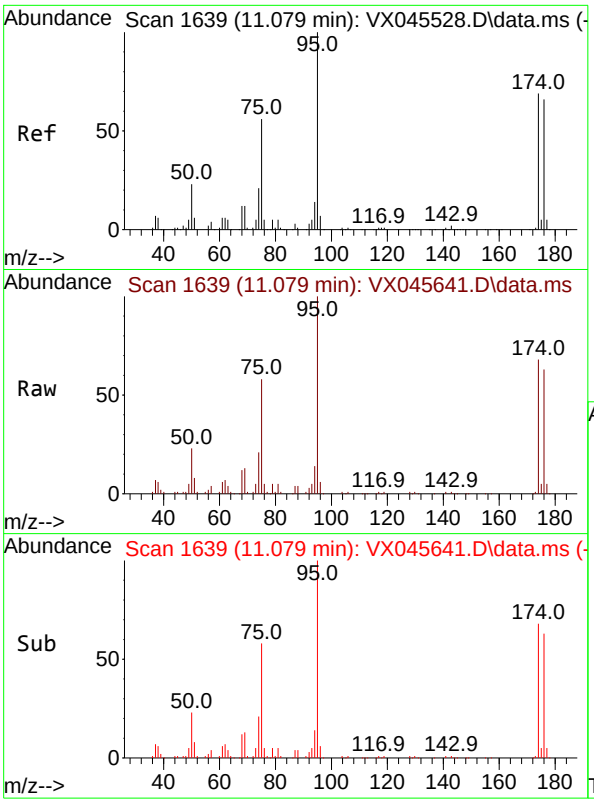


#50
Toluene-d8
Concen: 50.949 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Tgt Ion: 98 Resp: 164135

Ion	Ratio	Lower	Upper
98	100		
100	63.9	52.2	78.4



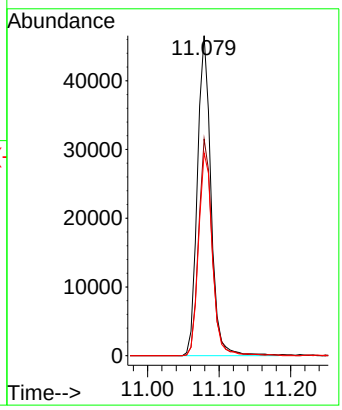


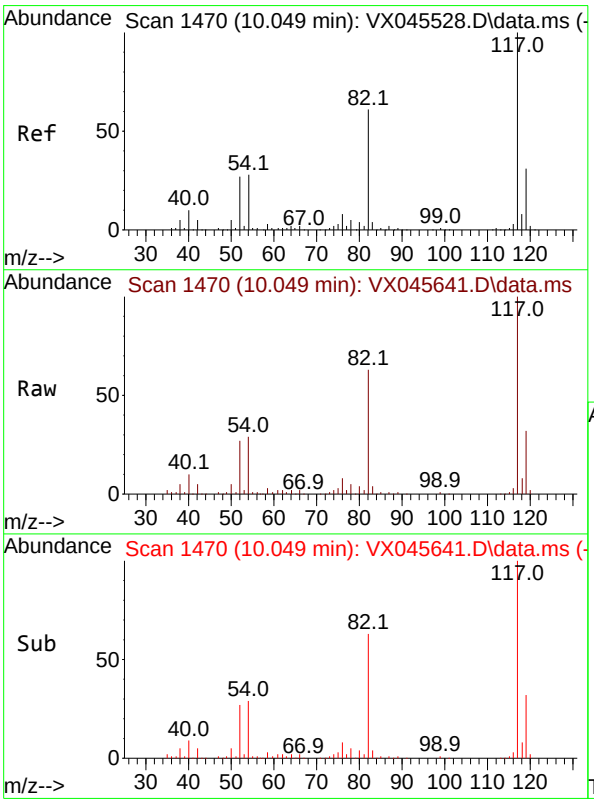
#62
4-Bromofluorobenzene
Concen: 52.115 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Tgt Ion: 95 Resp: 61154

Ion	Ratio	Lower	Upper
95	100		
174	67.9	0.0	135.8
176	64.7	0.0	131.4

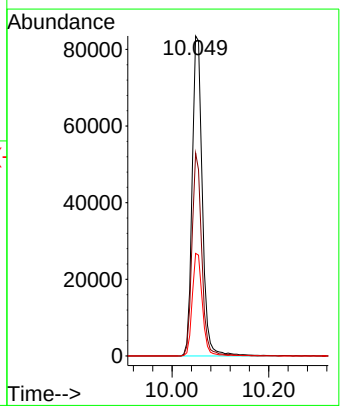


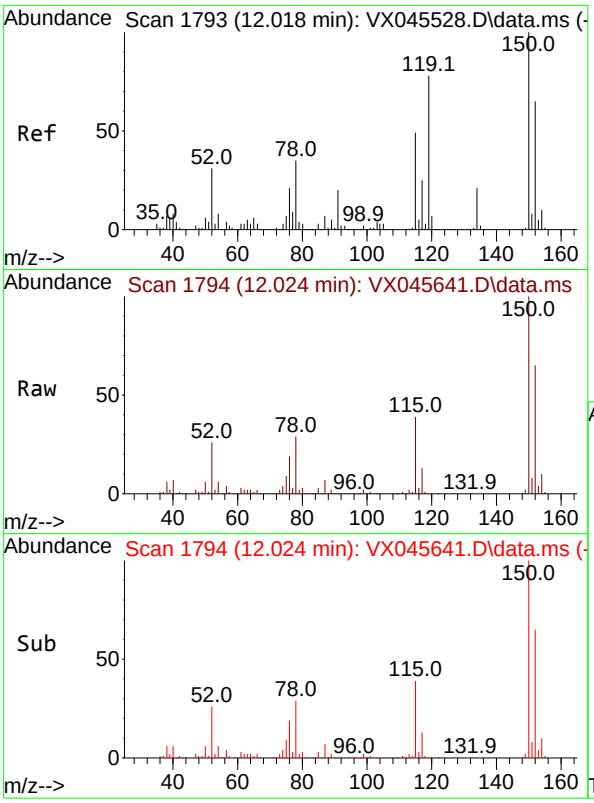


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Tgt Ion:117 Resp: 121595

Ion	Ratio	Lower	Upper
117	100		
82	63.4	49.2	73.8
119	32.1	25.1	37.7



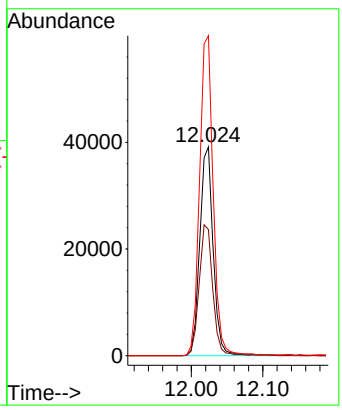


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045641.D
Acq: 08 Apr 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Tgt Ion:152 Resp: 51094

Ion	Ratio	Lower	Upper
152	100		
115	63.5	46.9	140.7
150	155.4	0.0	349.4



Sample Results: **VX045641.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045641.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.562	69	78	79	rBV3	3288	6489	1.41%	0.264%
2	1.629	79	89	92	rVB4	6263	20353	4.41%	0.827%
3	2.385	208	213	220	rBV2	4560	8444	1.83%	0.343%
4	5.031	641	647	658	rBV4	1501	4820	1.04%	0.196%
5	5.385	695	705	719	rBV	53987	163005	35.33%	6.621%
6	5.543	721	731	755	rVB	76294	220819	47.86%	8.970%
7	5.952	788	798	814	rBV	65308	174790	37.88%	7.100%
8	6.757	919	930	946	rBV	137233	332769	72.13%	13.517%
9	8.646	1233	1240	1257	rBV	285654	461375	100.00%	18.741%
10	10.049	1465	1470	1482	rBV	293660	415377	90.03%	16.873%
11	11.079	1634	1639	1657	rBV	233176	306875	66.51%	12.466%
12	12.018	1788	1793	1805	rBV	262466	346678	75.14%	14.082%

Sum of corrected areas: 2461794

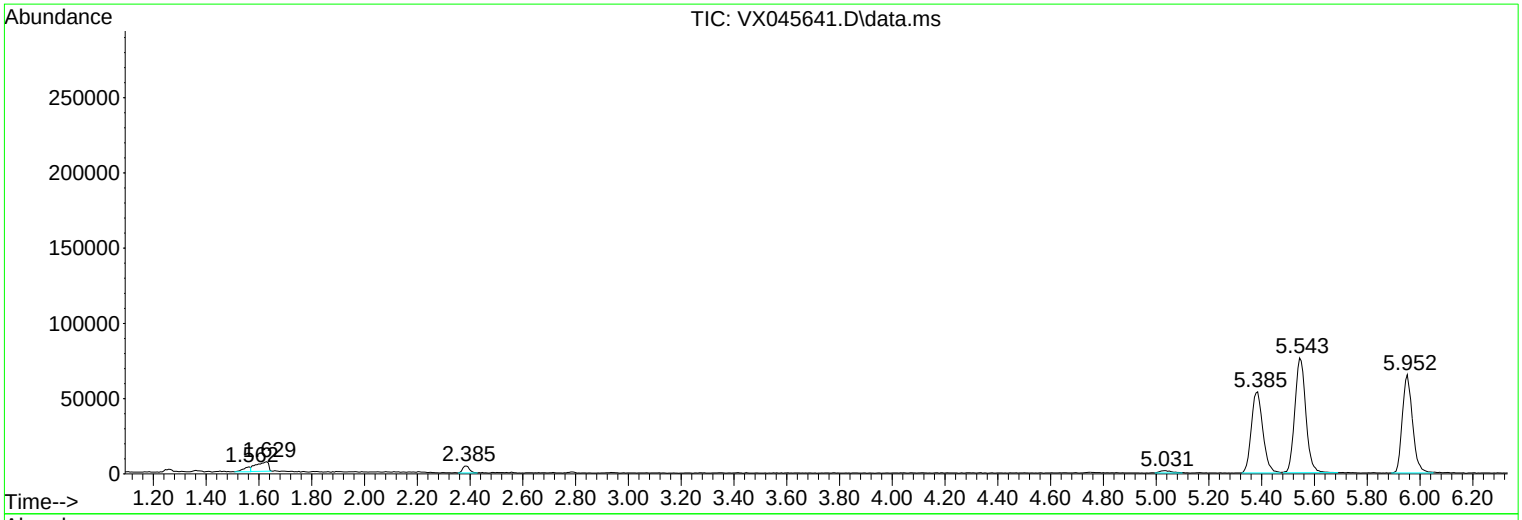
Sample Results: **VX045641.D**

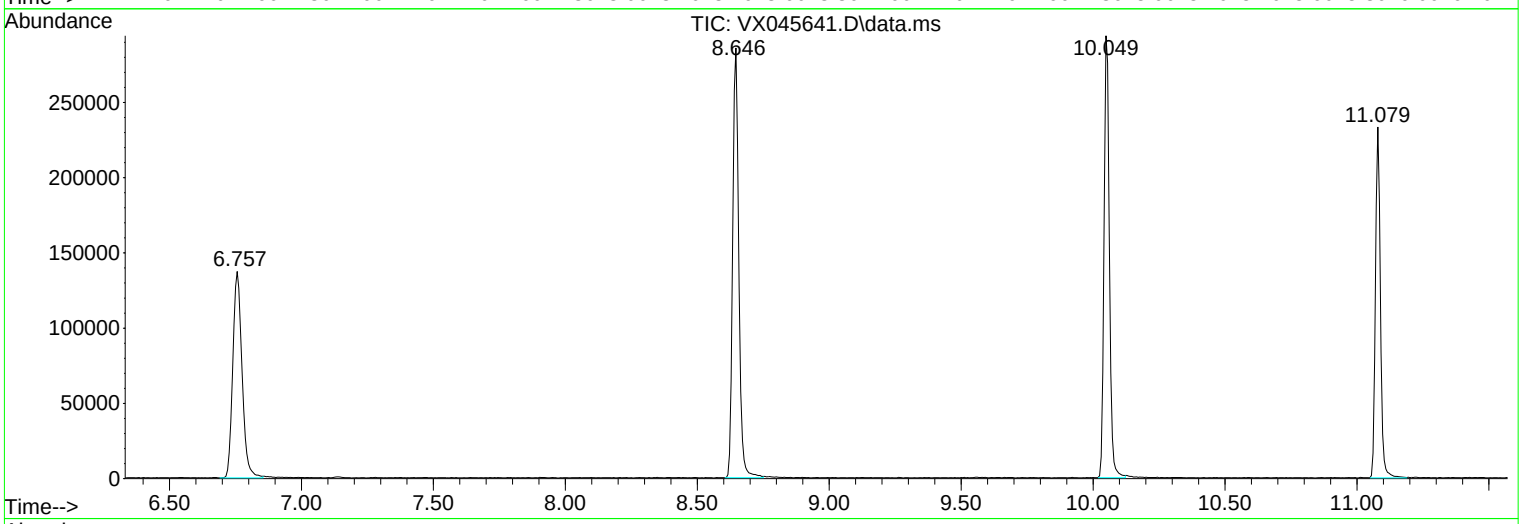
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

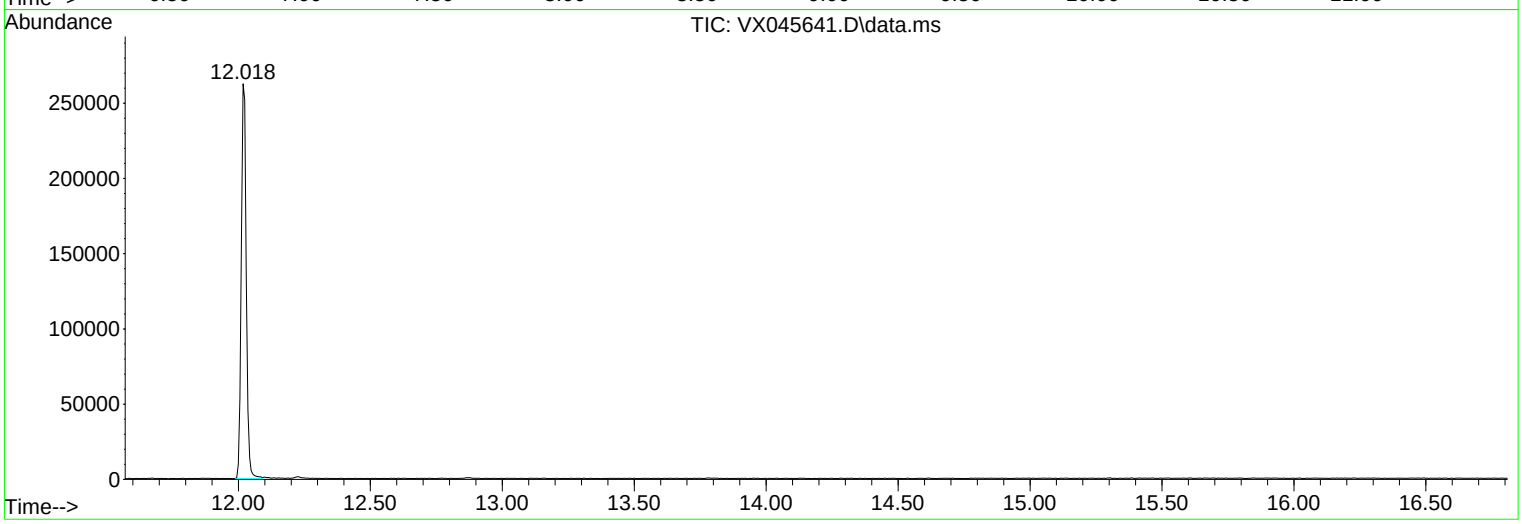
Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VX045641.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045641.D
Acq On : 08 Apr 2025 10:55
Operator : JC/MD
Sample : Q1746-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Time: Apr 08 01:36:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	64229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130025	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	121327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49684	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	67959	57.858	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.720%			
35) Dibromofluoromethane	5.379	113	48346	52.406	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.820%			
50) Toluene-d8	8.647	98	162793	50.557	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.120%			
62) 4-Bromofluorobenzene	11.079	95	60662	51.721	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.440%			

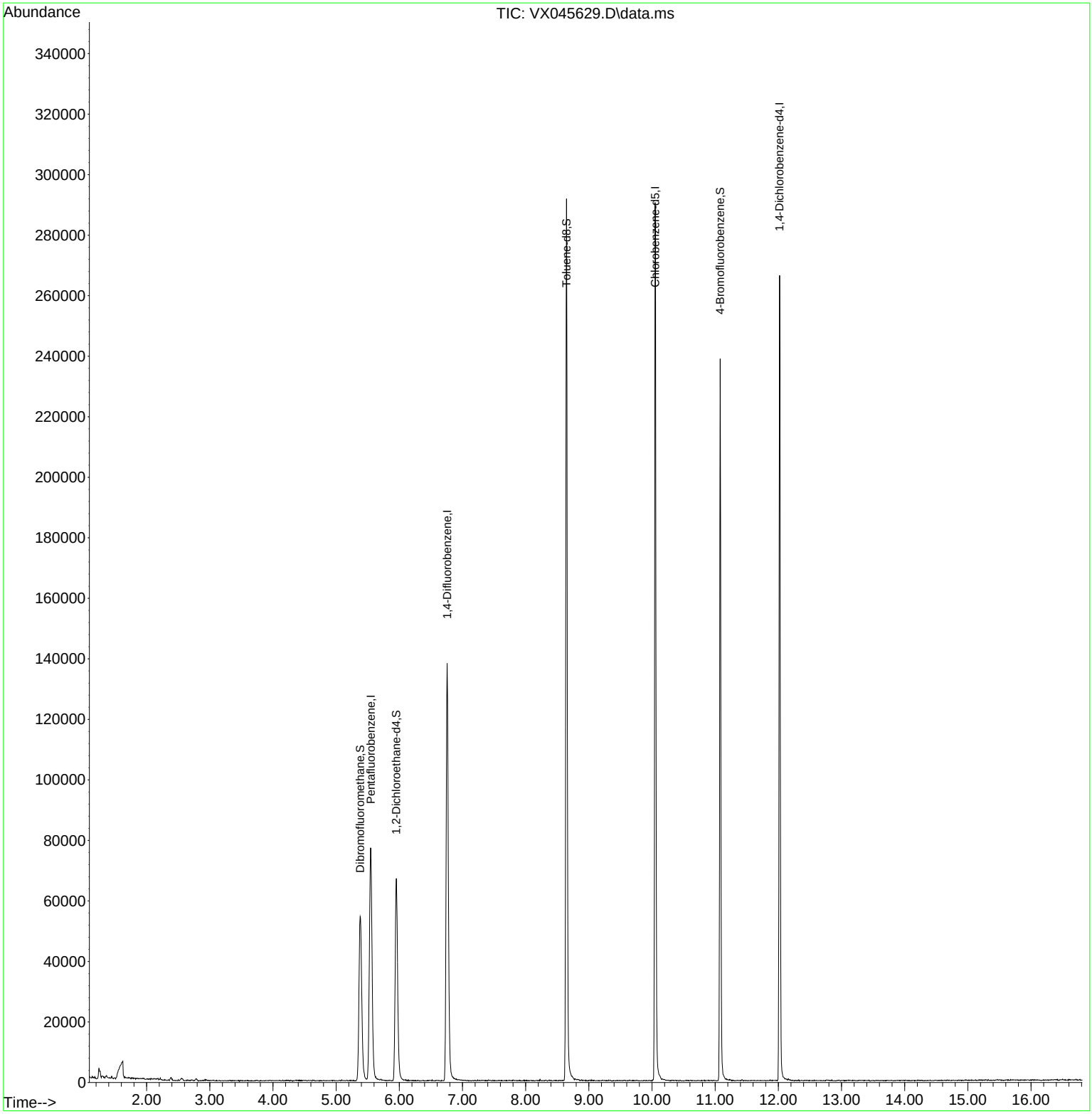
Target Compounds Qvalue

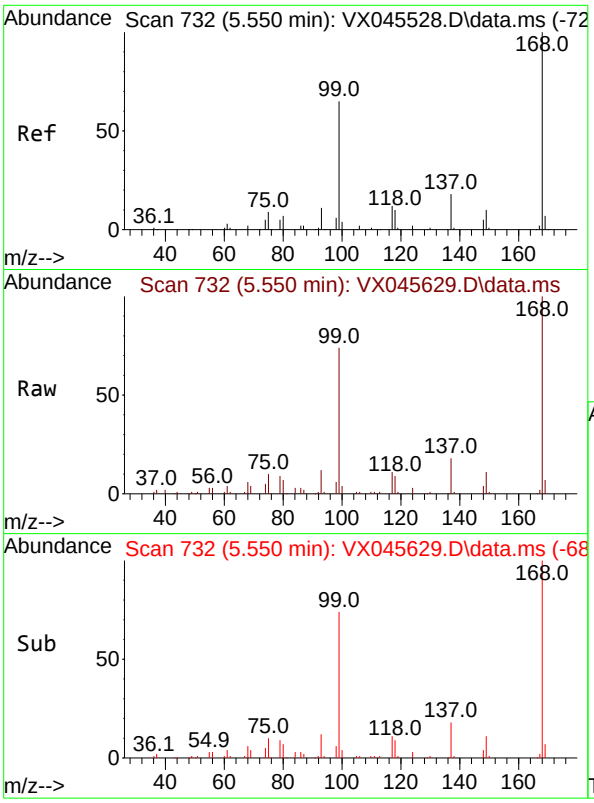
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Time: Apr 08 01:36:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



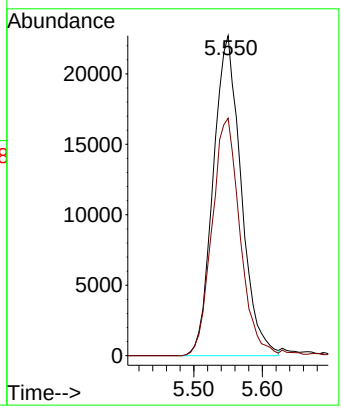


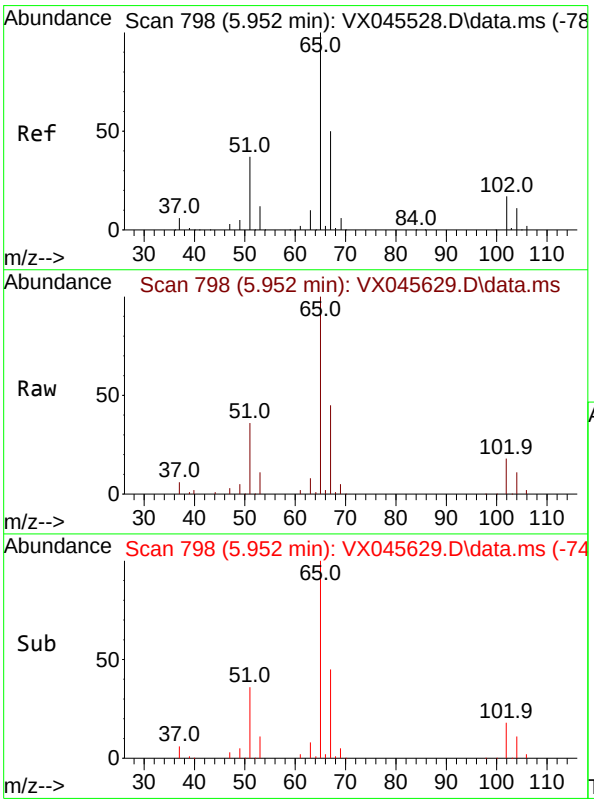
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Tgt Ion:168 Resp: 64229

Ion	Ratio	Lower	Upper
168	100		
99	74.2	52.3	78.5

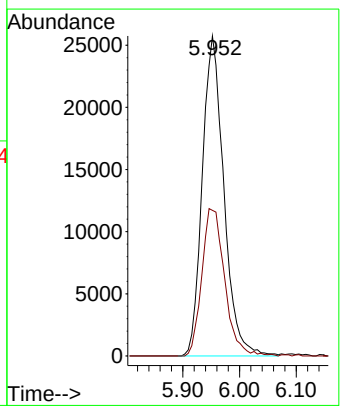


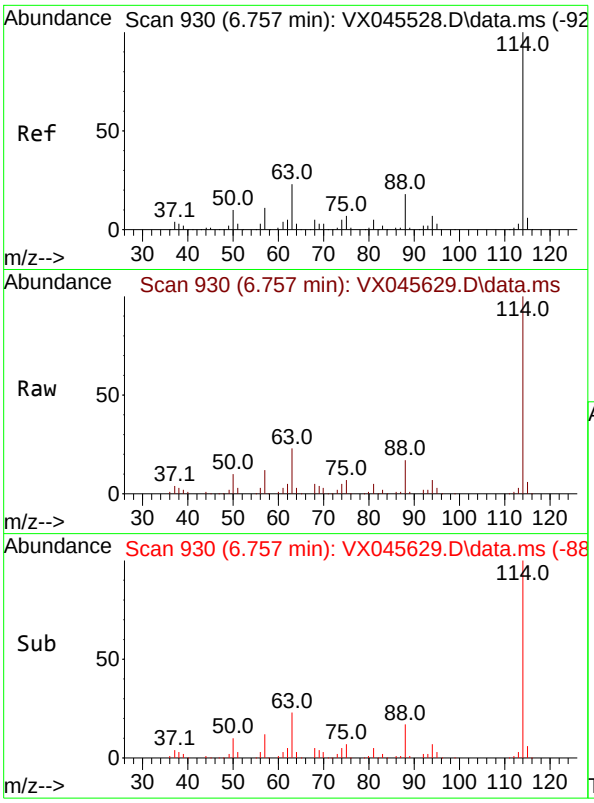


#33
1,2-Dichloroethane-d4
Concen: 57.858 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Tgt Ion: 65 Resp: 67959

Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	99.0



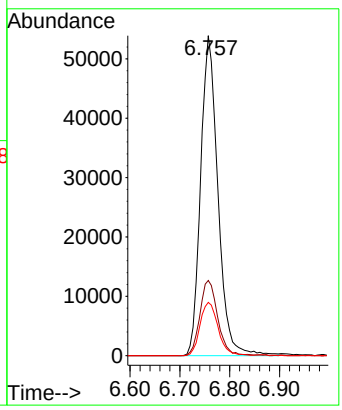


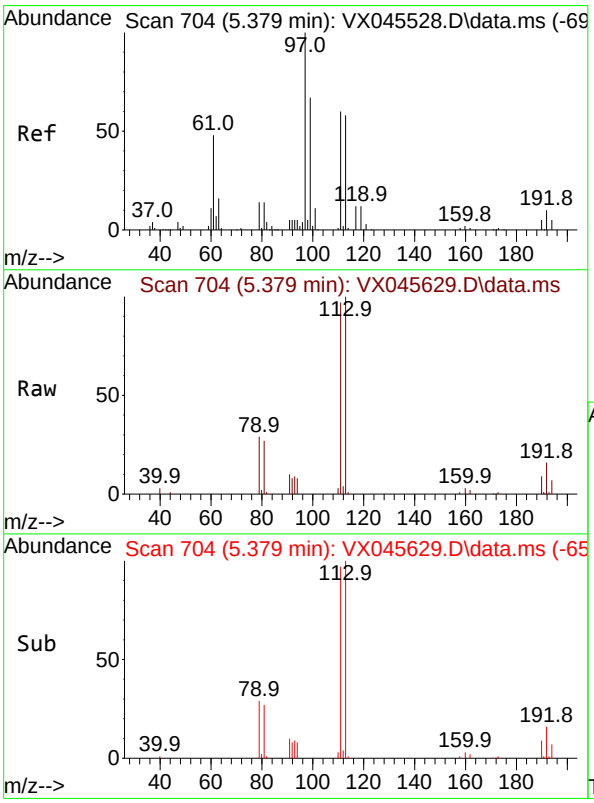
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Tgt Ion:114 Resp: 130025

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	46.8
88	16.6	0.0	35.4

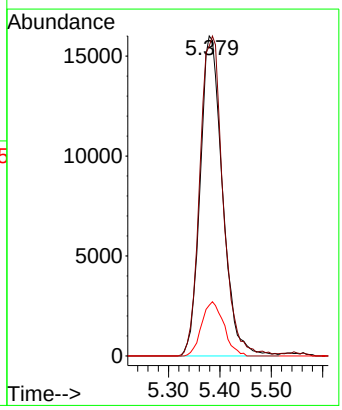


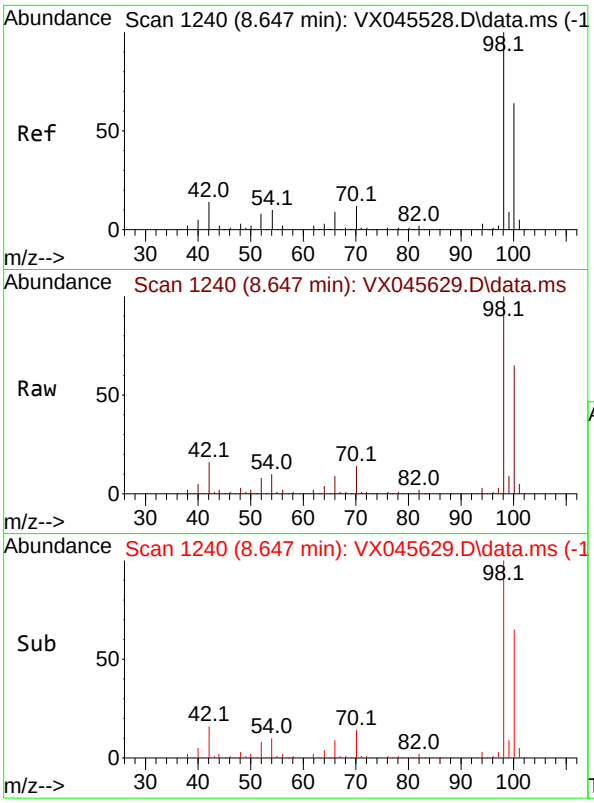


#35
Dibromofluoromethane
Concen: 52.406 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Tgt Ion:113 Resp: 48346

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.6
192	16.9	13.8	20.6



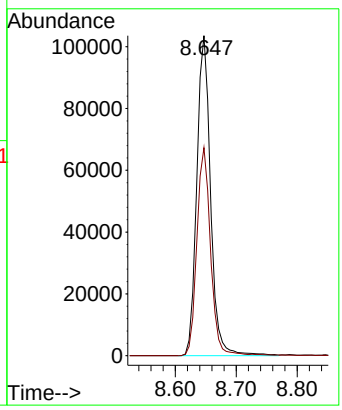


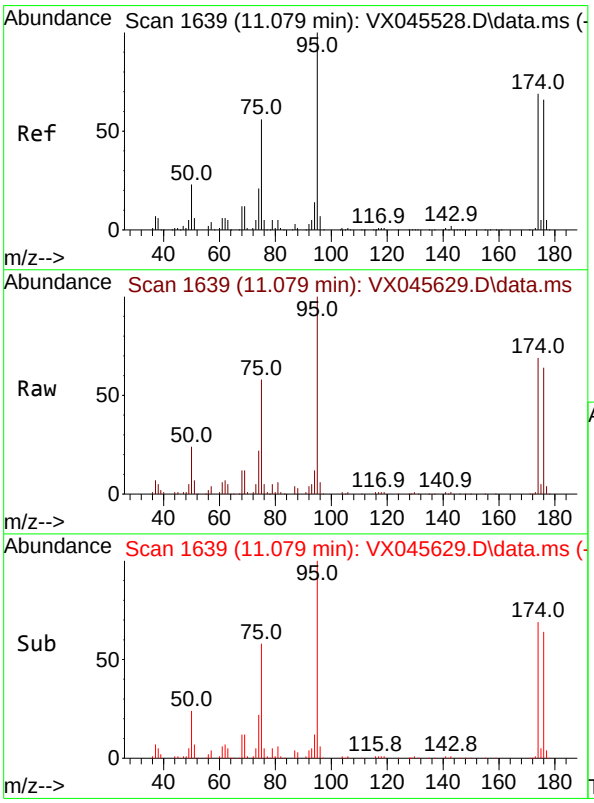
#50
Toluene-d8
Concen: 50.557 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Tgt Ion: 98 Resp: 162793

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4

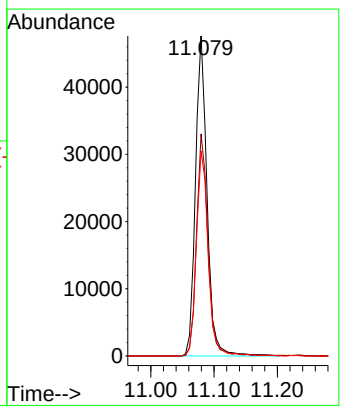


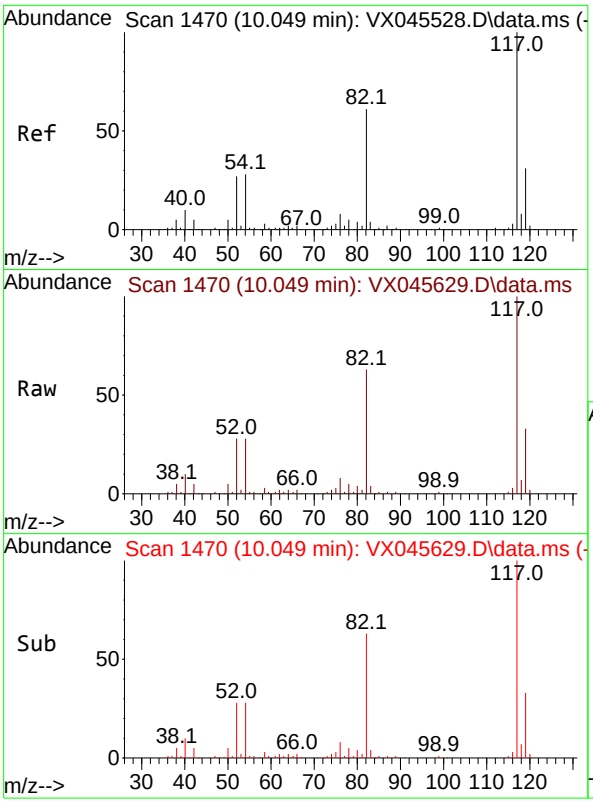


#62
4-Bromofluorobenzene
Concen: 51.721 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Tgt Ion: 95 Resp: 60662

Ion	Ratio	Lower	Upper
95	100		
174	69.3	0.0	135.8
176	65.0	0.0	131.4



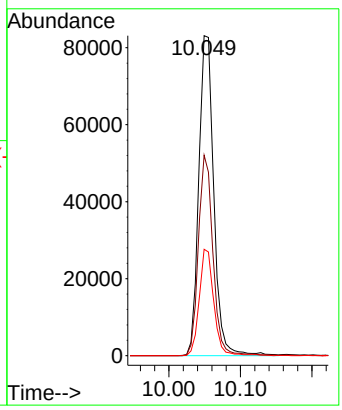


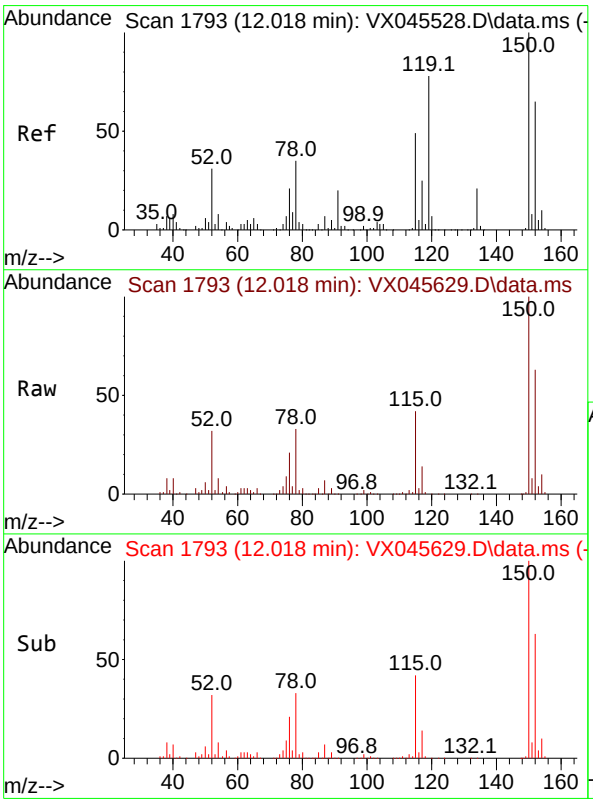
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Tgt Ion:117 Resp: 121327

Ion	Ratio	Lower	Upper
117	100		
82	62.7	49.2	73.8
119	33.3	25.1	37.7

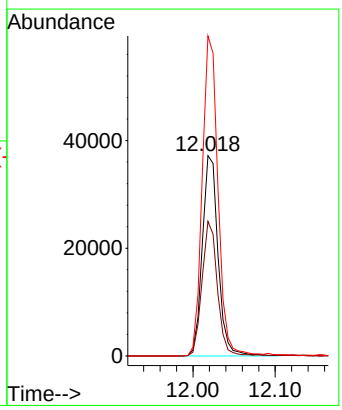




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045629.D
Acq: 07 Apr 2025 15:21

Tgt Ion:152 Resp: 49684

Ion	Ratio	Lower	Upper
152	100		
115	65.4	46.9	140.7
150	158.7	0.0	349.4



LSC Area Percent Report

Sample Results: **VX045629.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045629.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	32	rBV4	3261	5966	1.30%	0.243%
2	1.624	69	88	92	rBV5	5842	24879	5.43%	1.015%
3	5.379	693	704	721	rBV2	54258	166503	36.33%	6.791%
4	5.544	721	731	747	rVV2	76435	221098	48.25%	9.018%
5	5.952	789	798	817	rBV	66829	179797	39.24%	7.333%
6	6.757	921	930	948	rBV	137904	335435	73.20%	13.681%
7	8.647	1234	1240	1253	rBV	291243	458248	100.00%	18.690%
8	10.049	1465	1470	1487	rBV	289926	413083	90.14%	16.848%
9	11.079	1634	1639	1652	rBV	238472	301518	65.80%	12.298%
10	12.018	1788	1793	1808	rBV	266113	345309	75.35%	14.084%

Sum of corrected areas: 2451836

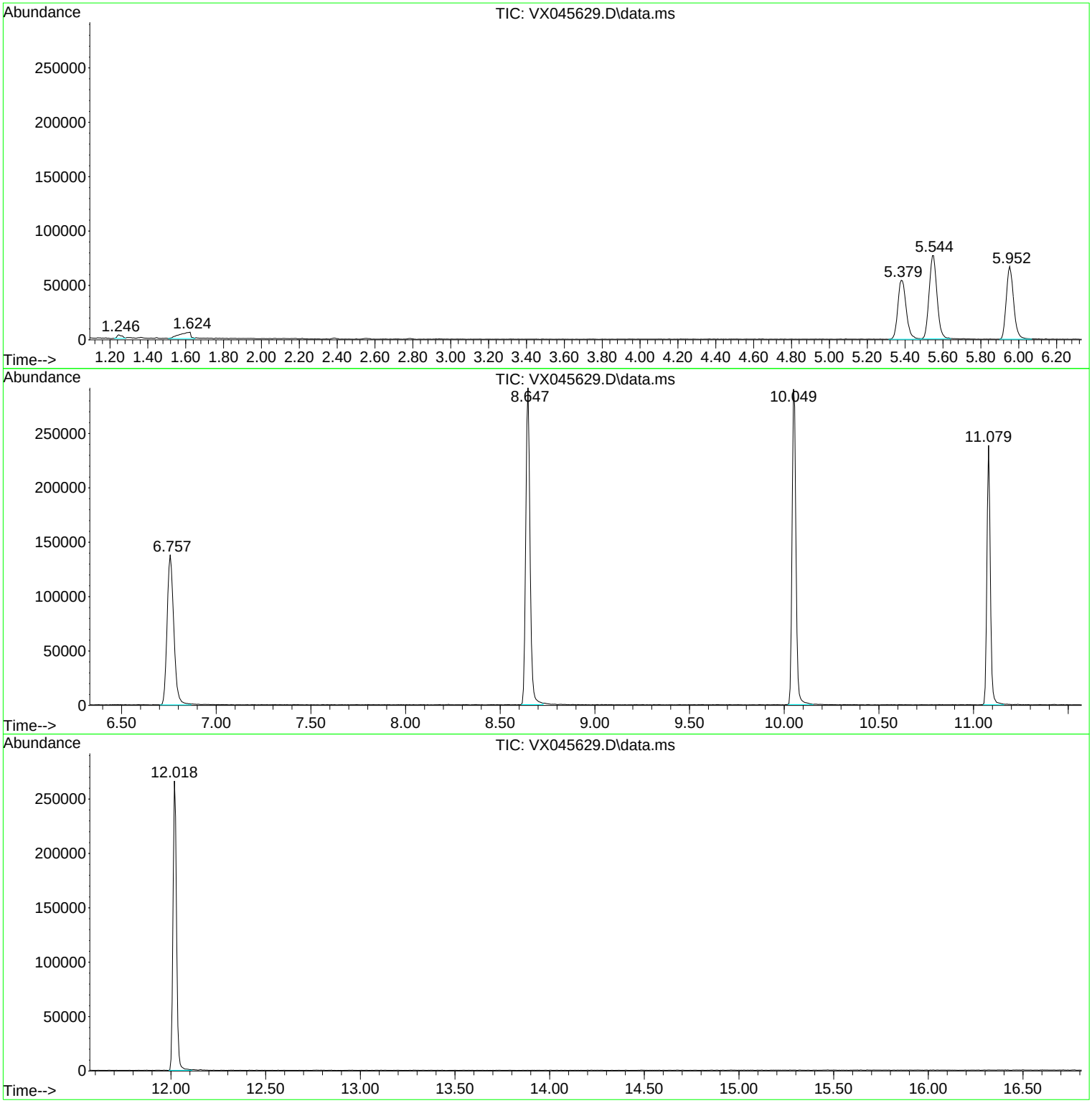
Sample Results: **VX045629.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VX045629.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045629.D
Acq On : 07 Apr 2025 15:21
Operator : JC/MD
Sample : Q1746-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-2025-4-7

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Time: Apr 08 01:34:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	67505	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	132975	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123601	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49926	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	69079	55.957	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.920%			
35) Dibromofluoromethane	5.385	113	49178	52.125	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.260%			
50) Toluene-d8	8.647	98	167958	51.004	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.000%			
62) 4-Bromofluorobenzene	11.079	95	61925	51.626	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.260%			

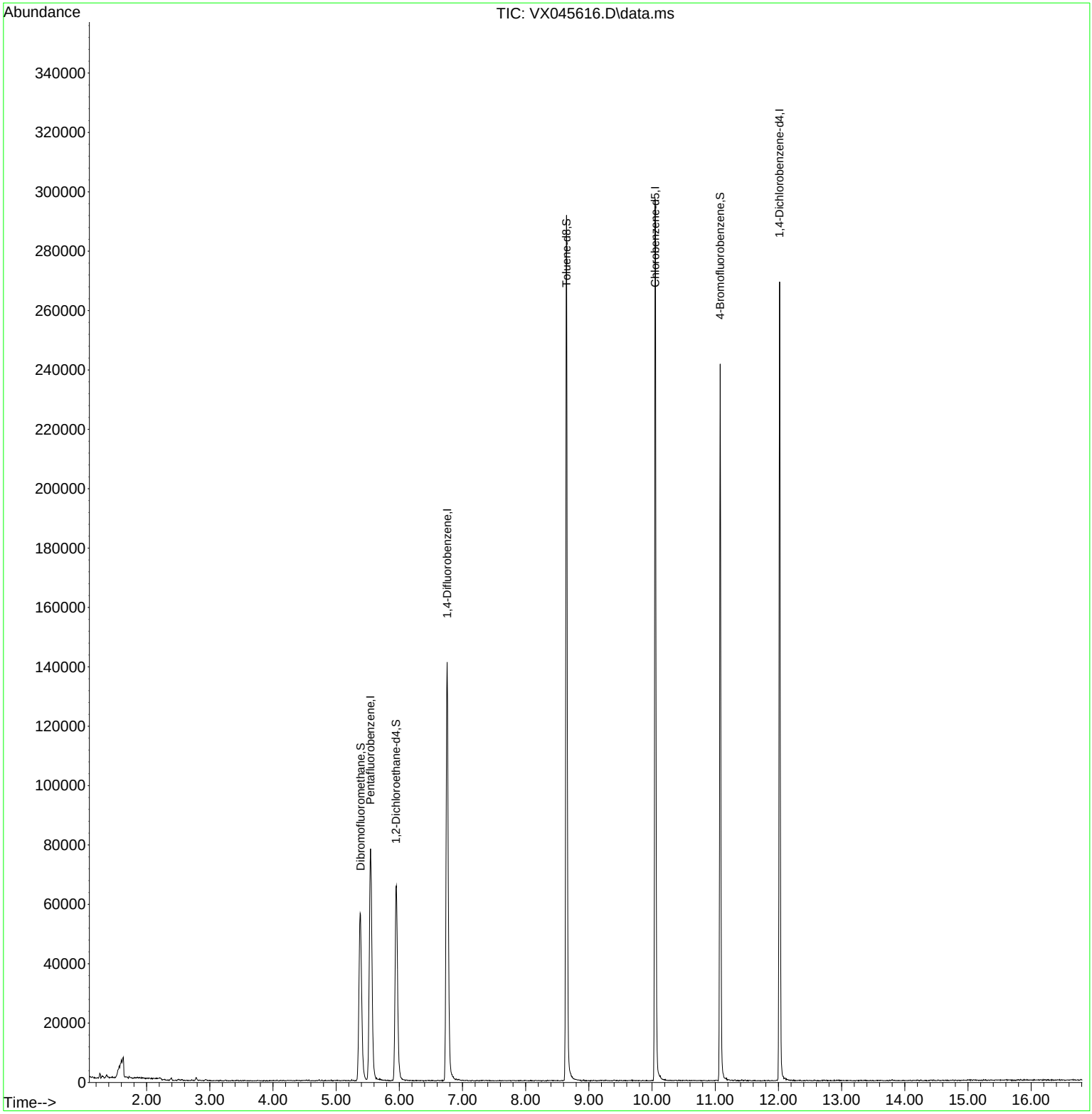
Target Compounds Qvalue

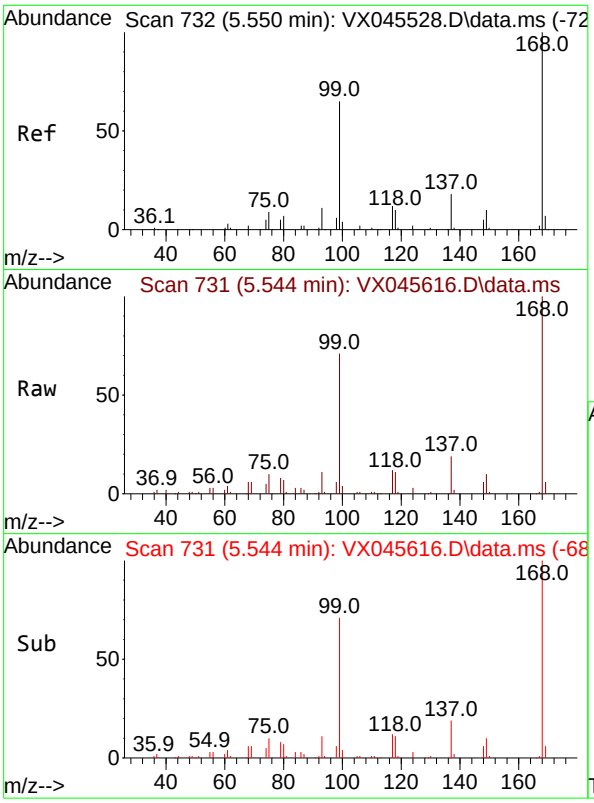
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Time: Apr 08 01:34:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



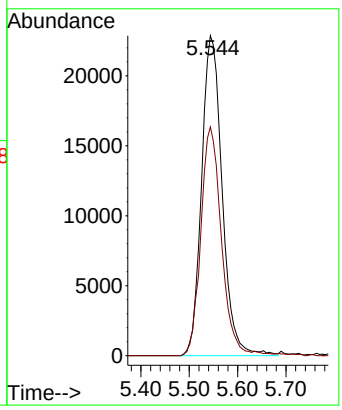


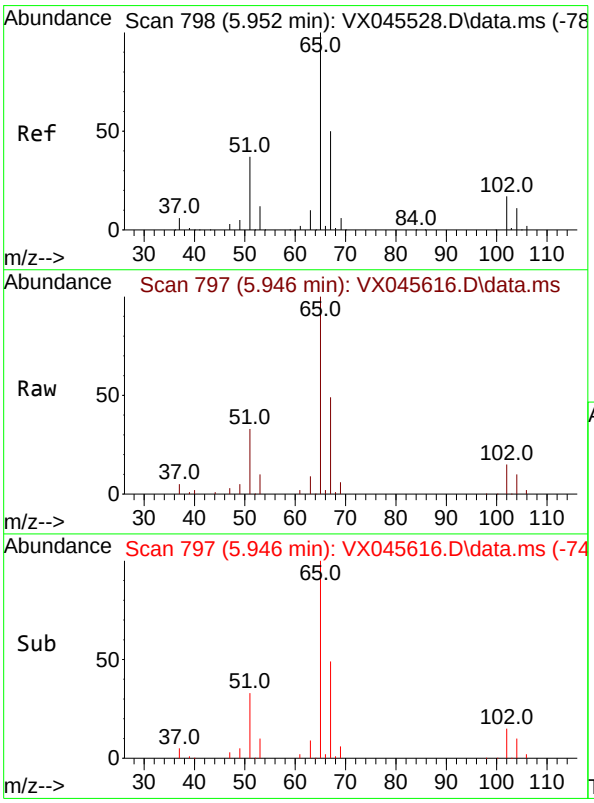
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Tgt Ion:168 Resp: 67505

Ion	Ratio	Lower	Upper
168	100		
99	71.5	52.3	78.5

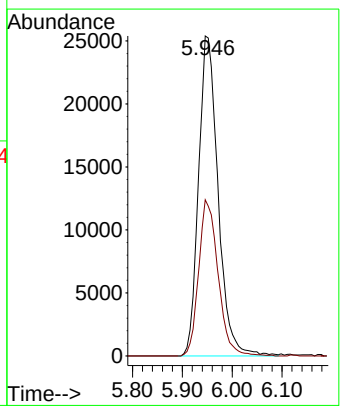


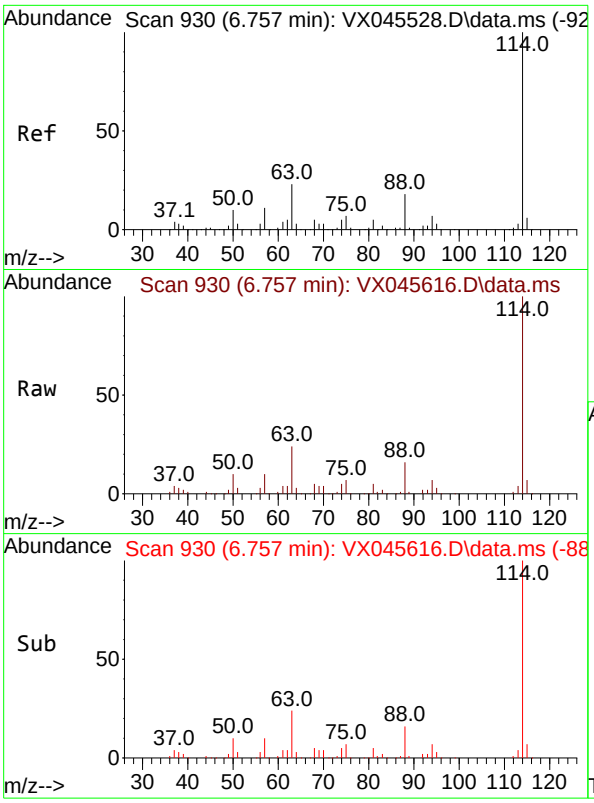


#33
1,2-Dichloroethane-d4
Concen: 55.957 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Tgt Ion: 65 Resp: 69079

Ion	Ratio	Lower	Upper
65	100		
67	48.6	0.0	99.0



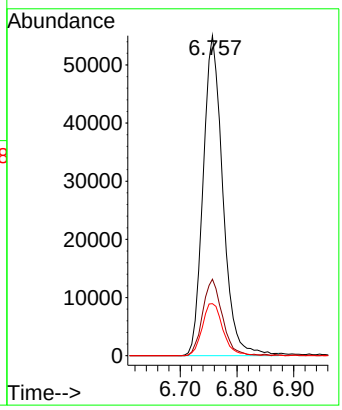


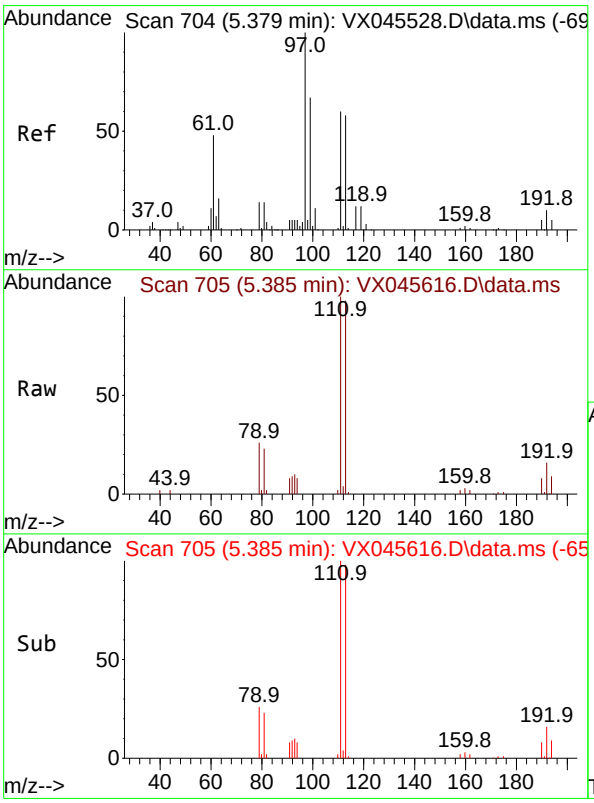
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Tgt Ion:114 Resp: 132975

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	46.8
88	16.2	0.0	35.4

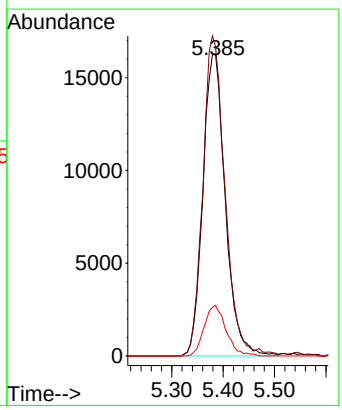


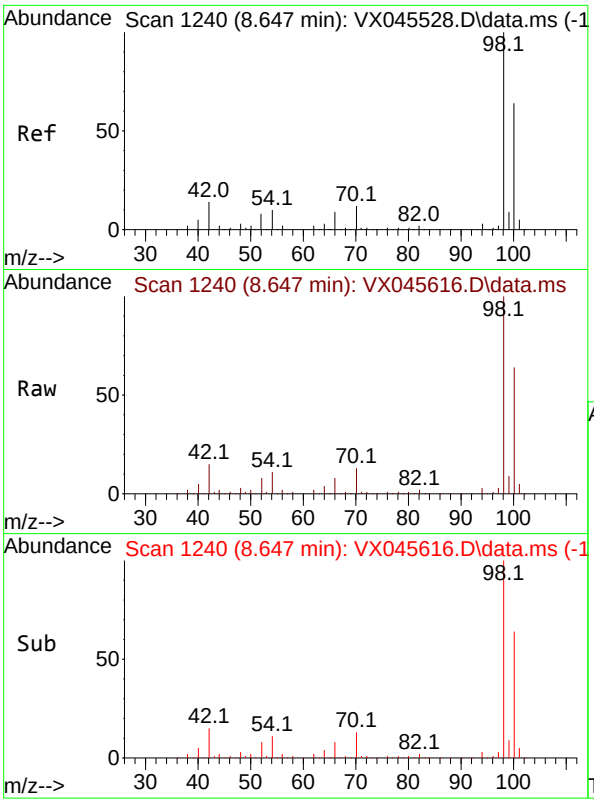


#35
Dibromofluoromethane
Concen: 52.125 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Tgt Ion:113 Resp: 49178

Ion	Ratio	Lower	Upper
113	100		
111	105.0	81.8	122.6
192	16.4	13.8	20.6



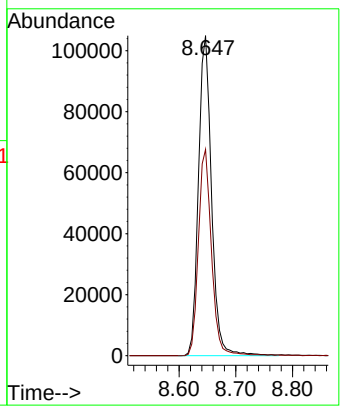


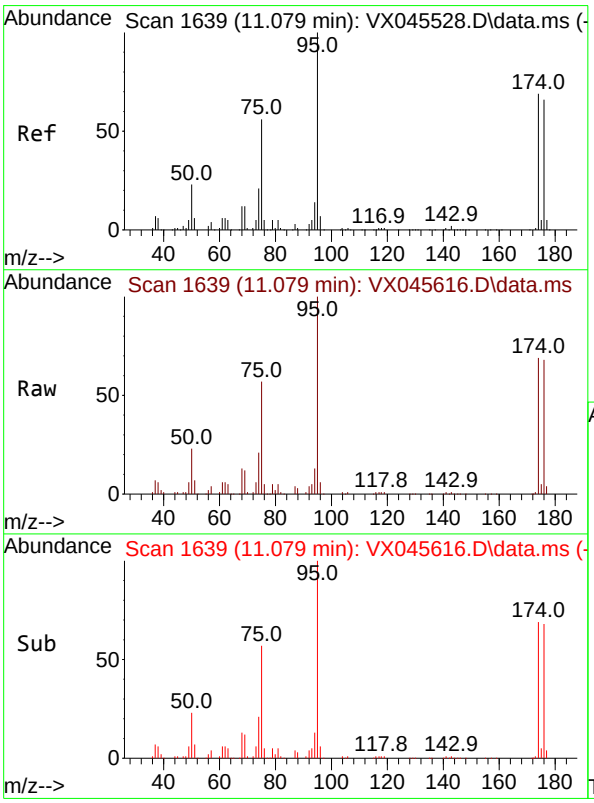
#50
Toluene-d8
Concen: 51.004 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Tgt Ion: 98 Resp: 167958

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.4

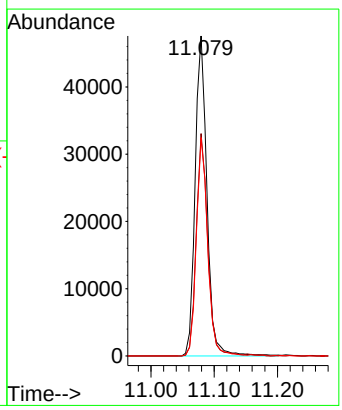


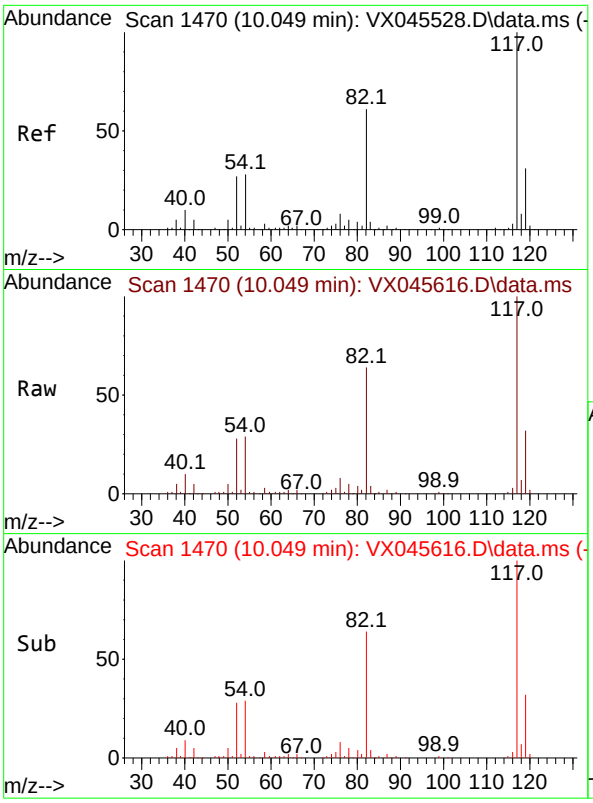


#62
4-Bromofluorobenzene
Concen: 51.626 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Tgt Ion: 95 Resp: 61925

Ion	Ratio	Lower	Upper
95	100		
174	67.3	0.0	135.8
176	65.4	0.0	131.4



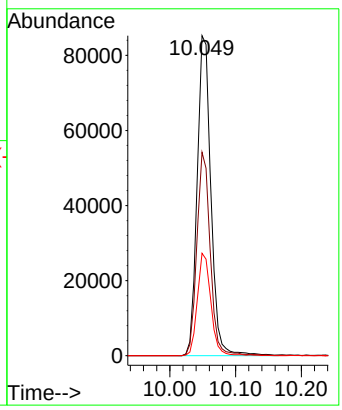


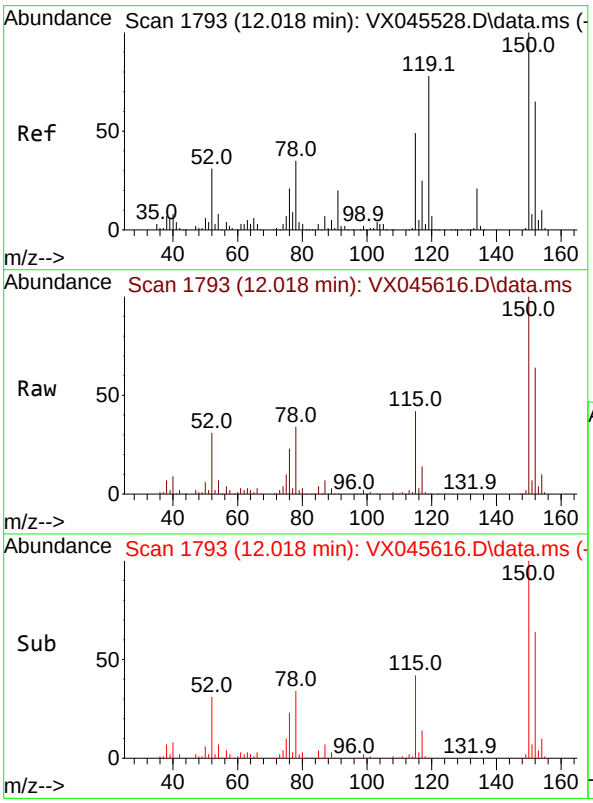
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Tgt Ion:117 Resp: 123601

Ion	Ratio	Lower	Upper
117	100		
82	63.5	49.2	73.8
119	32.0	25.1	37.7

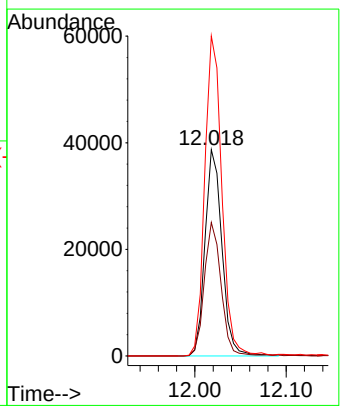




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045616.D
Acq: 07 Apr 2025 10:11

Tgt Ion:152 Resp: 49926

Ion	Ratio	Lower	Upper
152	100		
115	64.5	46.9	140.7
150	156.2	0.0	349.4



Sample Results: **VX045616.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045616.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.569	68	79	80	rBV3	4016	9062	1.93%	0.365%
2	1.599	80	84	86	rVV5	5888	11080	2.36%	0.447%
3	1.630	86	89	93	rVB3	6782	9179	1.96%	0.370%
4	5.379	693	704	720	rBV	56454	168857	35.97%	6.810%
5	5.544	721	731	745	rVV	77738	223369	47.58%	9.009%
6	5.952	789	798	818	rBV2	65657	179851	38.31%	7.254%
7	6.757	921	930	945	rBV	140908	340483	72.53%	13.732%
8	8.647	1234	1240	1260	rBV	291366	469416	100.00%	18.932%
9	10.049	1465	1470	1482	rBV	297022	421347	89.76%	16.993%
10	11.079	1634	1639	1650	rBV	241438	307193	65.44%	12.389%
11	12.018	1788	1793	1802	rBV	268939	339633	72.35%	13.698%

Sum of corrected areas: 2479470

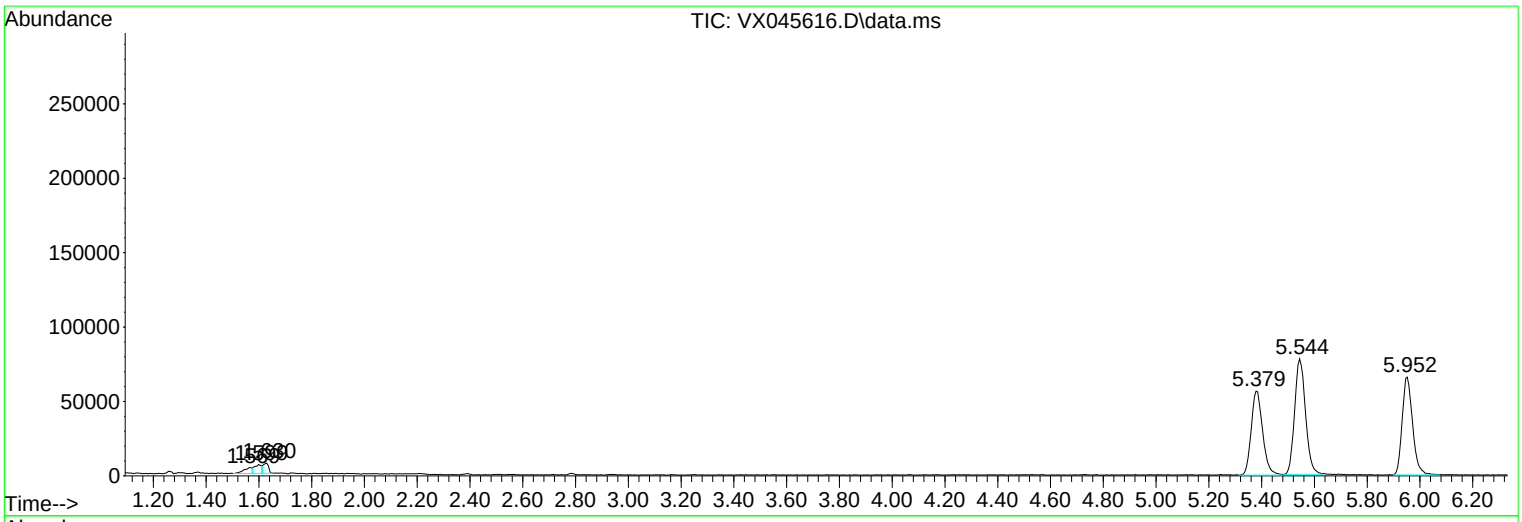
Sample Results: **VX045616.D**

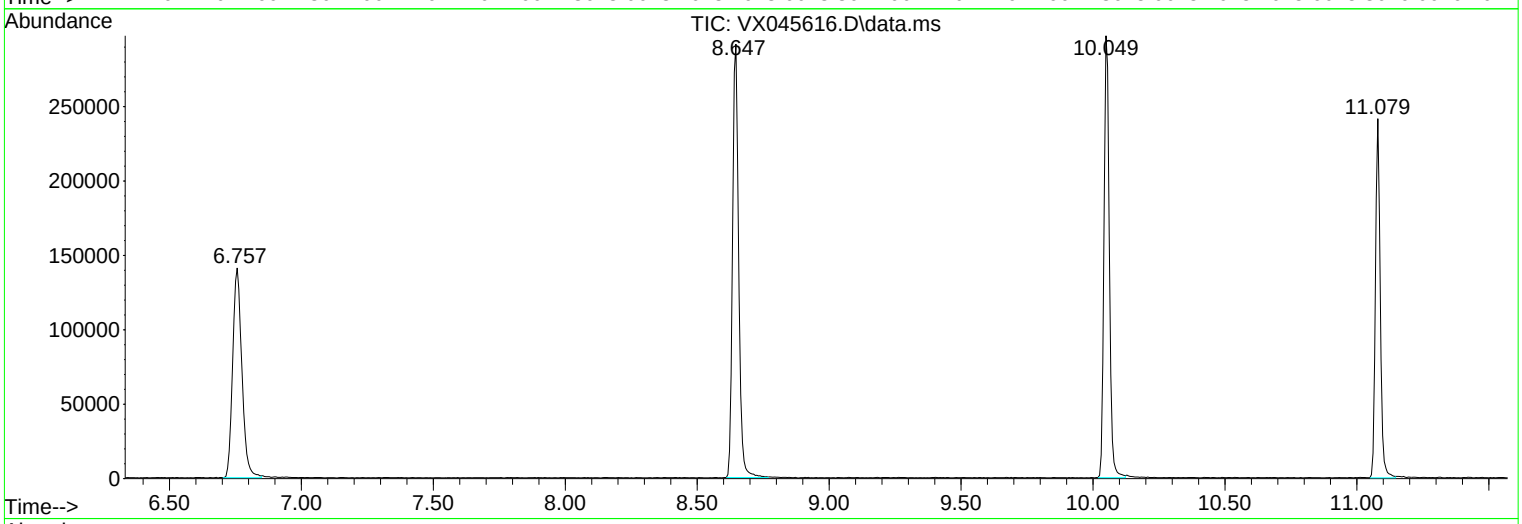
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

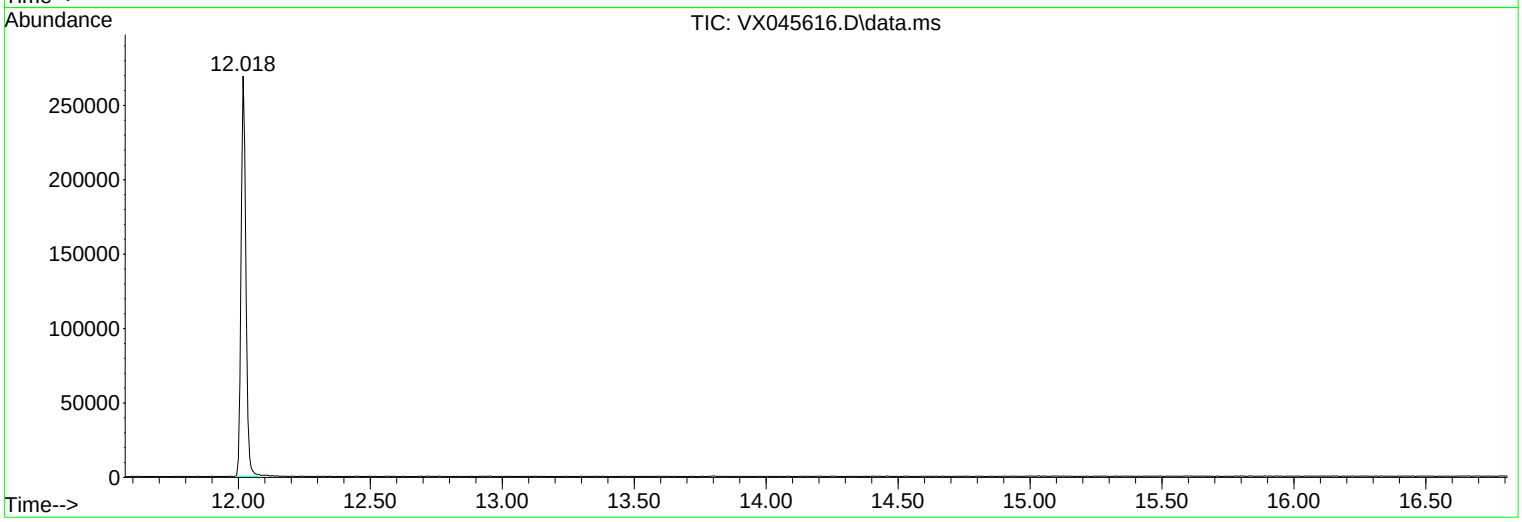
Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VX045616.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045616.D
Acq On : 07 Apr 2025 10:11
Operator : JC/MD
Sample : VX0407WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Time: Apr 09 01:31:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	66539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129800	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51559	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	67529	55.496	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.000%			
35) Dibromofluoromethane	5.379	113	48500	52.664	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.320%			
50) Toluene-d8	8.646	98	165054	51.348	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.700%			
62) 4-Bromofluorobenzene	11.079	95	60782	51.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.820%			

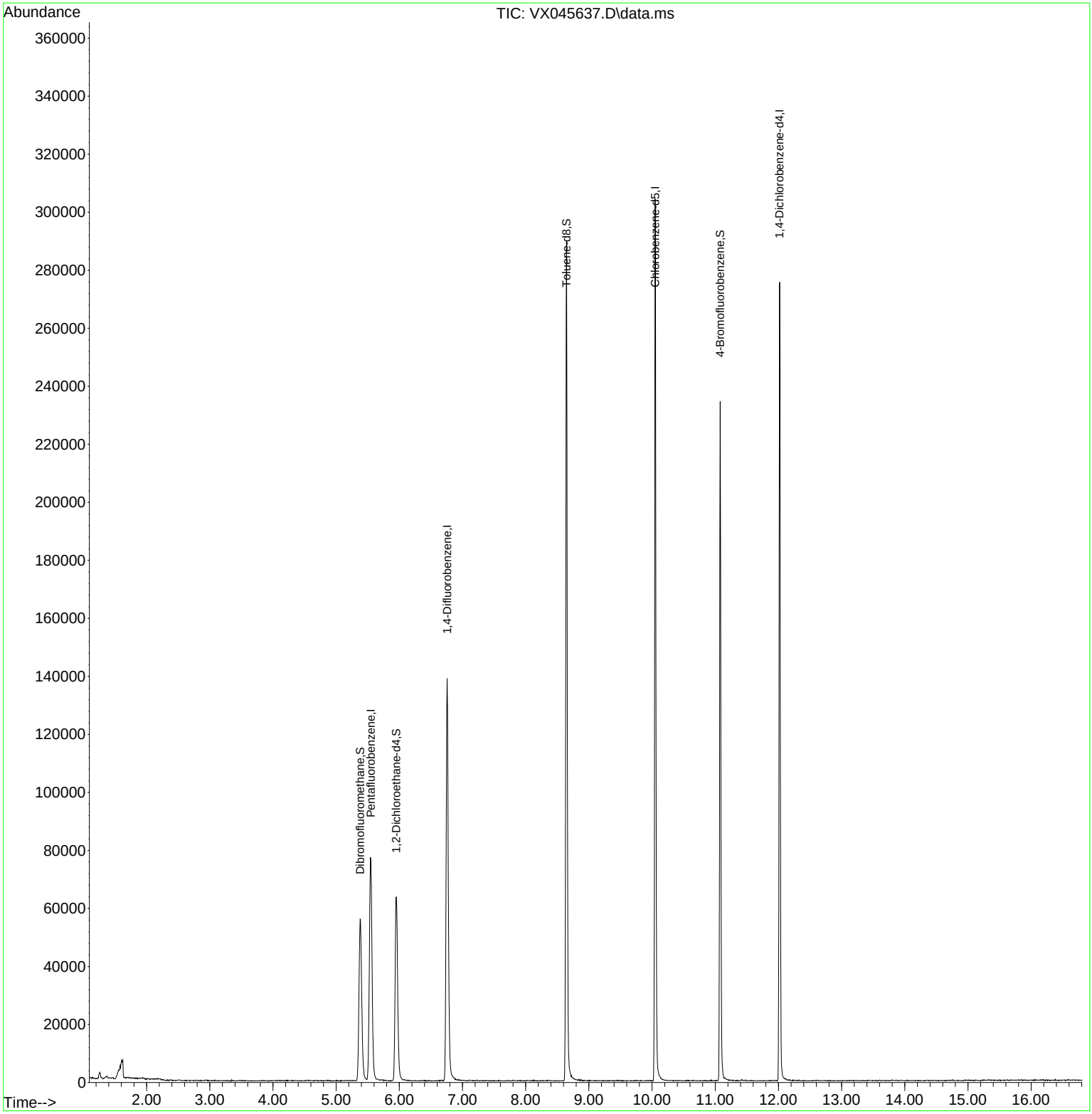
Target Compounds Qvalue

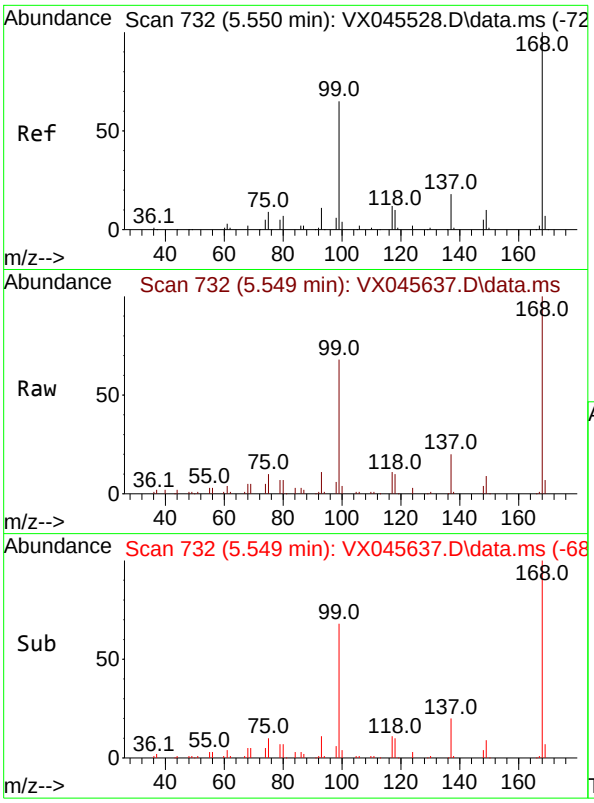
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Time: Apr 09 01:31:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



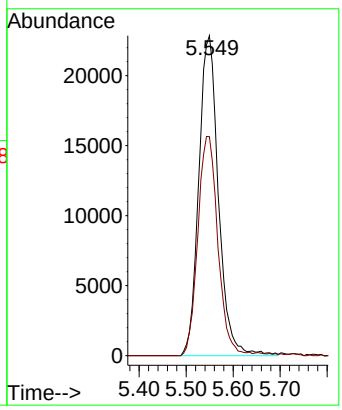


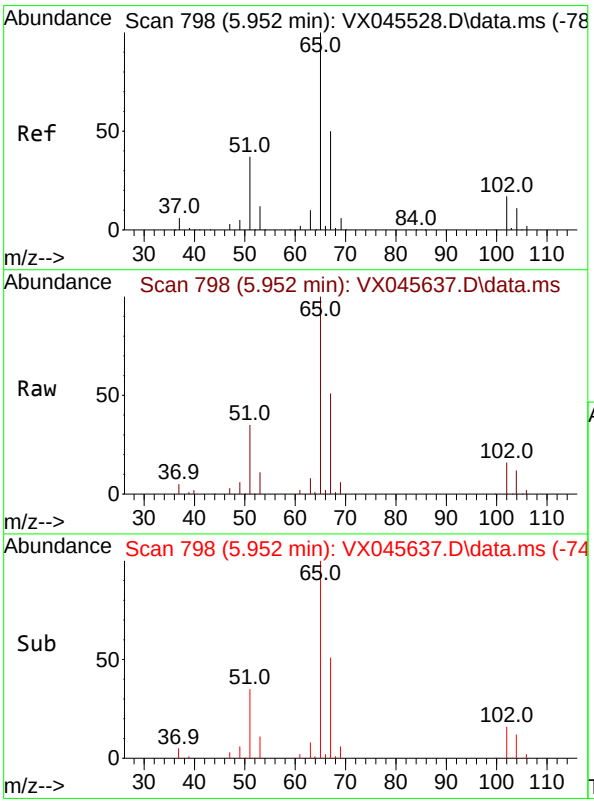
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion:168 Resp: 66539

Ion	Ratio	Lower	Upper
168	100		
99	68.5	52.3	78.5

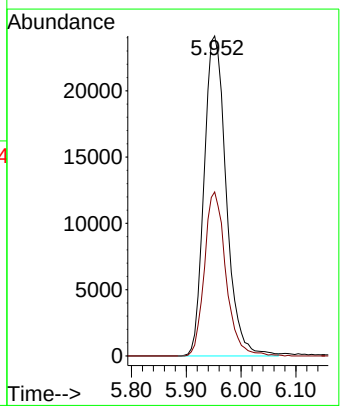


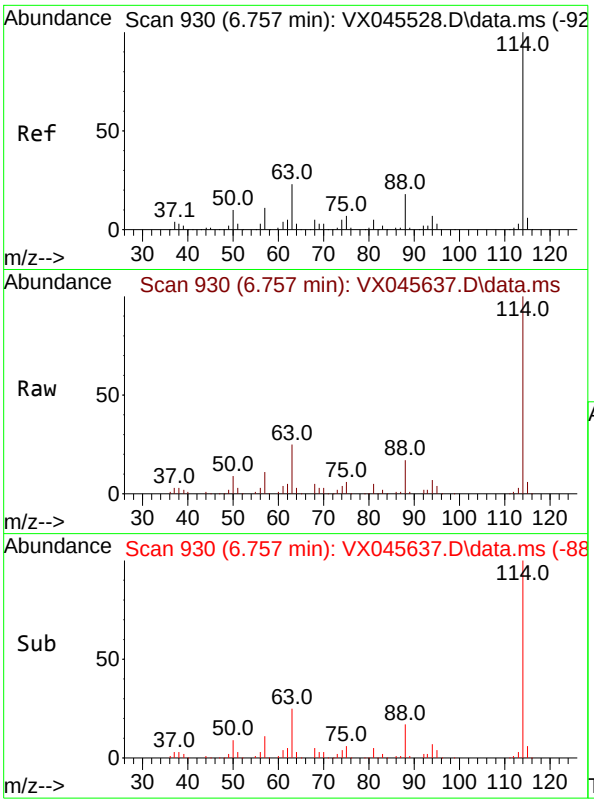


#33
1,2-Dichloroethane-d4
Concen: 55.496 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion: 65 Resp: 67529

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0



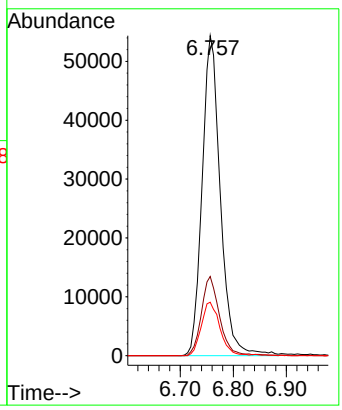


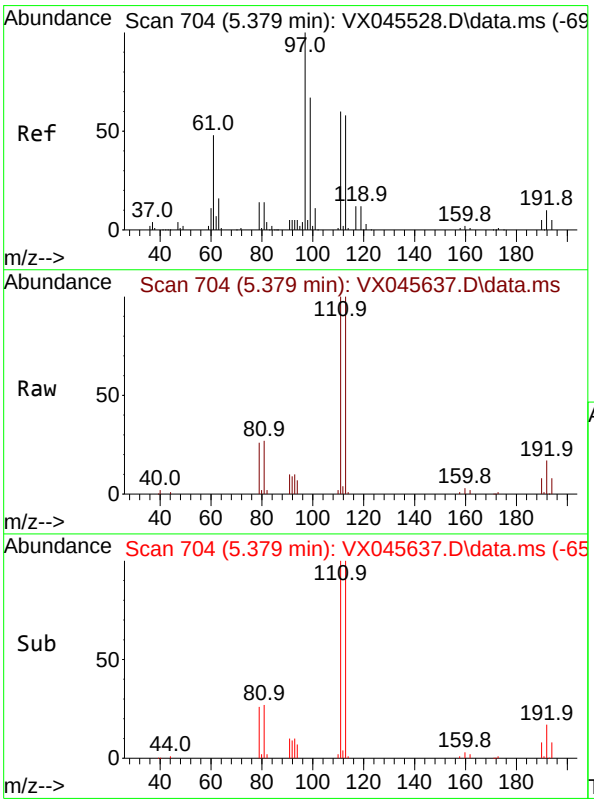
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion:114 Resp: 129800

Ion	Ratio	Lower	Upper
114	100		
63	24.8	0.0	46.8
88	16.7	0.0	35.4

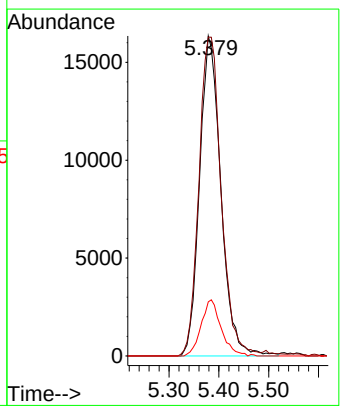


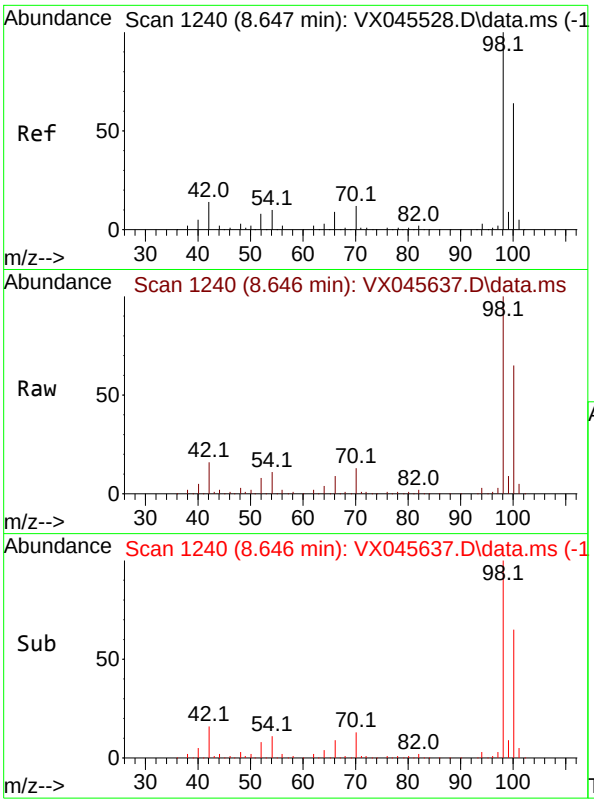


#35
Dibromofluoromethane
Concen: 52.664 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion:113 Resp: 48500

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	16.5	13.8	20.6



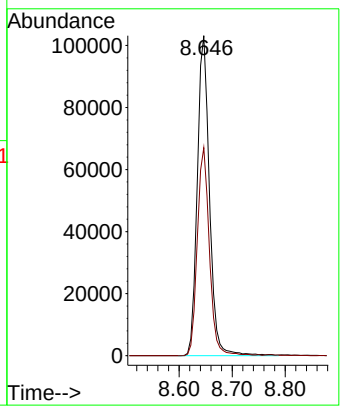


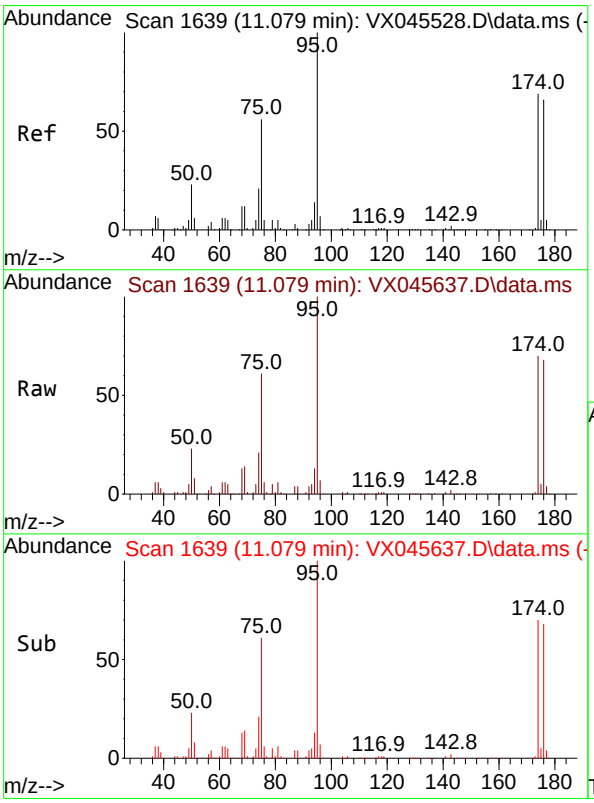
#50
Toluene-d8
Concen: 51.348 ug/l
RT: 8.646 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion: 98 Resp: 165054

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.4

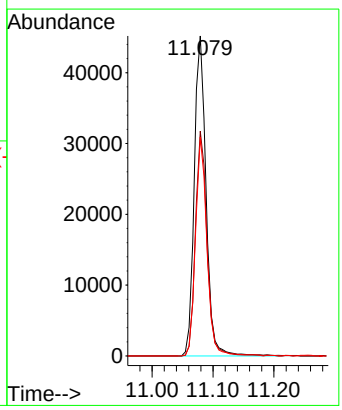


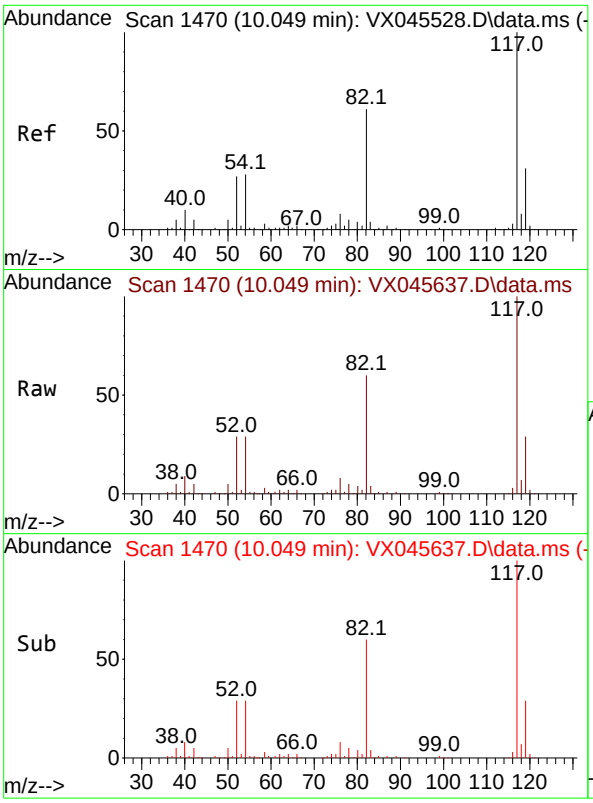


#62
4-Bromofluorobenzene
Concen: 51.913 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion: 95 Resp: 60782

Ion	Ratio	Lower	Upper
95	100		
174	69.3	0.0	135.8
176	66.0	0.0	131.4



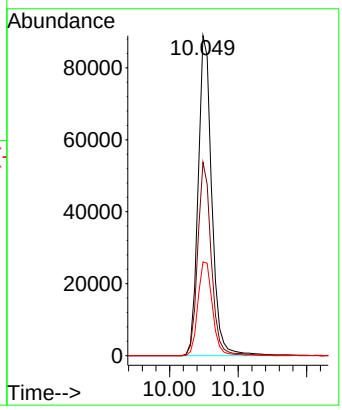


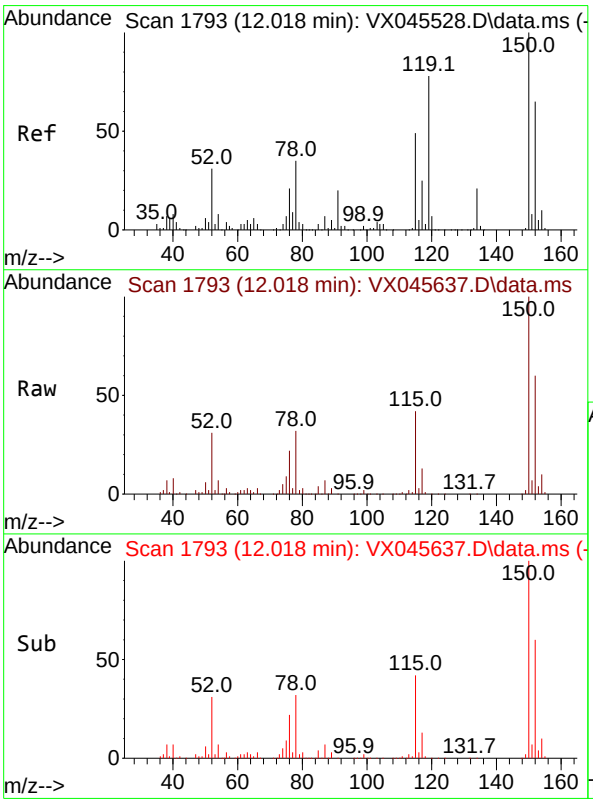
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion:117 Resp: 123174

Ion	Ratio	Lower	Upper
117	100		
82	60.4	49.2	73.8
119	29.3	25.1	37.7

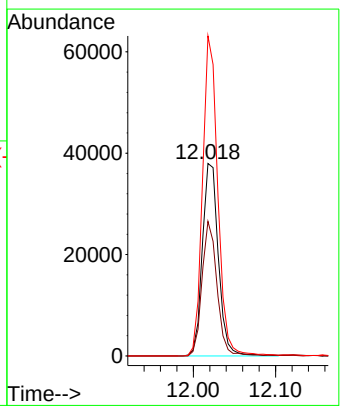




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion:152 Resp: 51559

Ion	Ratio	Lower	Upper
152	100		
115	65.5	46.9	140.7
150	157.9	0.0	349.4



Sample Results: **VX045637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260

Signal : TIC: VX045637.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.556	69	77	78	rBV3	2971	5721	1.23%	0.233%
2	1.605	79	85	87	rVV4	2999	5114	1.10%	0.208%
3	5.379	694	704	722	rBV	55856	167410	35.88%	6.807%
4	5.543	722	731	747	rVV	76622	220279	47.21%	8.957%
5	5.952	785	798	816	rBV	63432	178462	38.25%	7.256%
6	6.757	921	930	951	rBV	138693	335523	71.91%	13.643%
7	8.646	1233	1240	1255	rBV	289533	466613	100.00%	18.973%
8	10.049	1465	1470	1485	rBV	304050	418138	89.61%	17.002%
9	11.079	1634	1639	1651	rBV	234026	306164	65.61%	12.449%
10	12.018	1788	1793	1804	rBV	275317	355919	76.28%	14.472%

Sum of corrected areas: 2459343

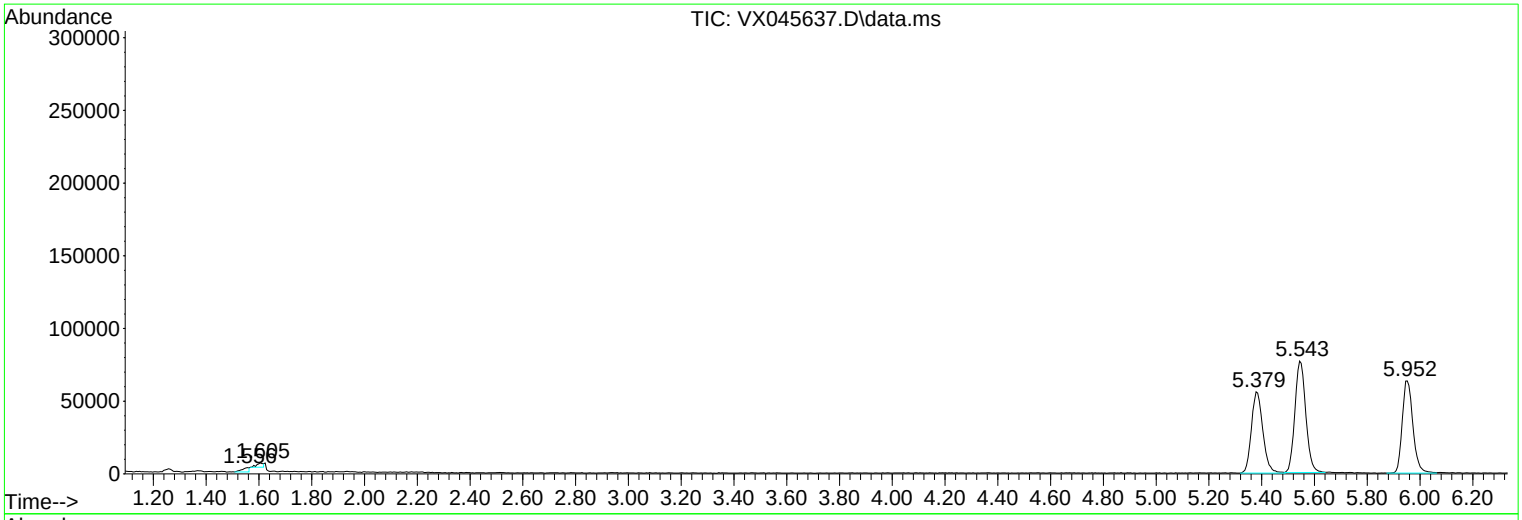
Sample Results: **VX045637.D**

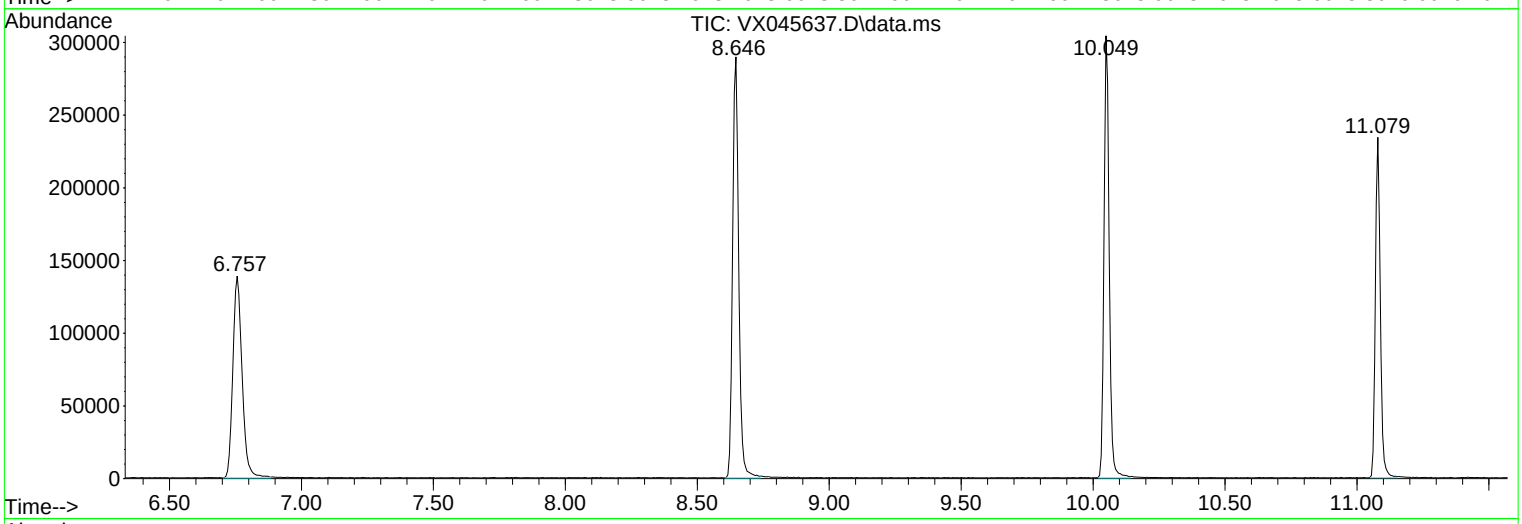
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

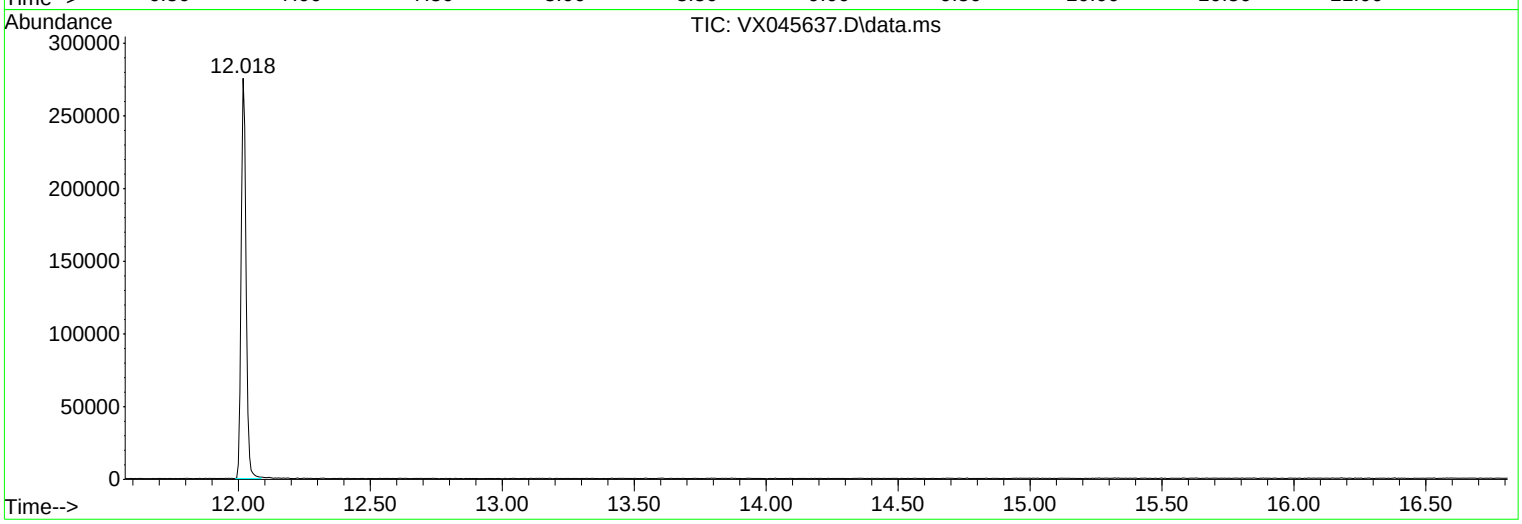
Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **VX045637.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Time: Apr 11 01:49:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	241941	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	436661	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	362482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	131635	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122060	46.564	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.120%		
35) Dibromofluoromethane	7.640	113	141417	49.926	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.860%		
50) Toluene-d8	10.109	98	522401	48.479	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.960%		
62) 4-Bromofluorobenzene	12.408	95	139589	38.297	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	76.600%		

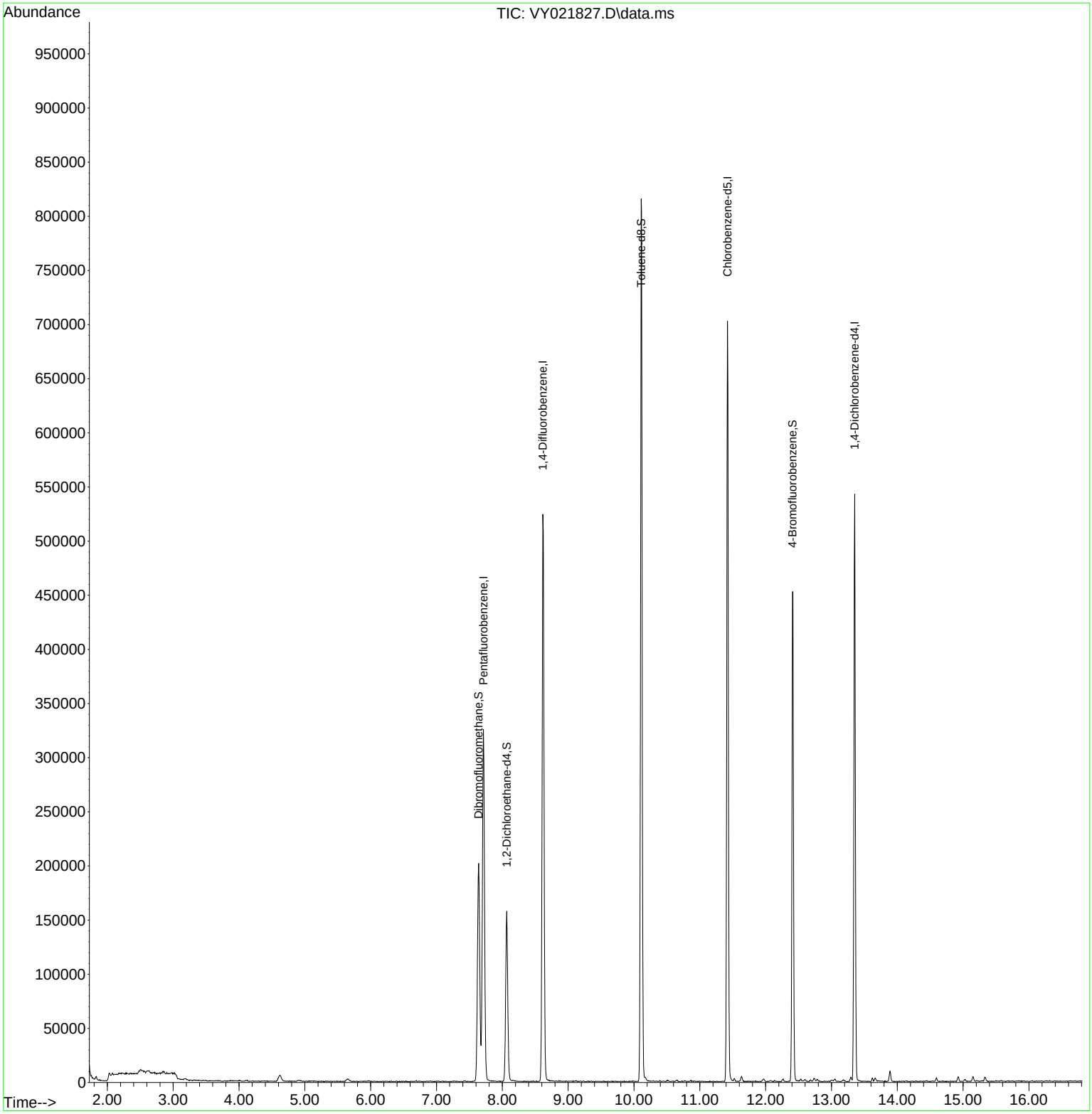
Target Compounds Qvalue

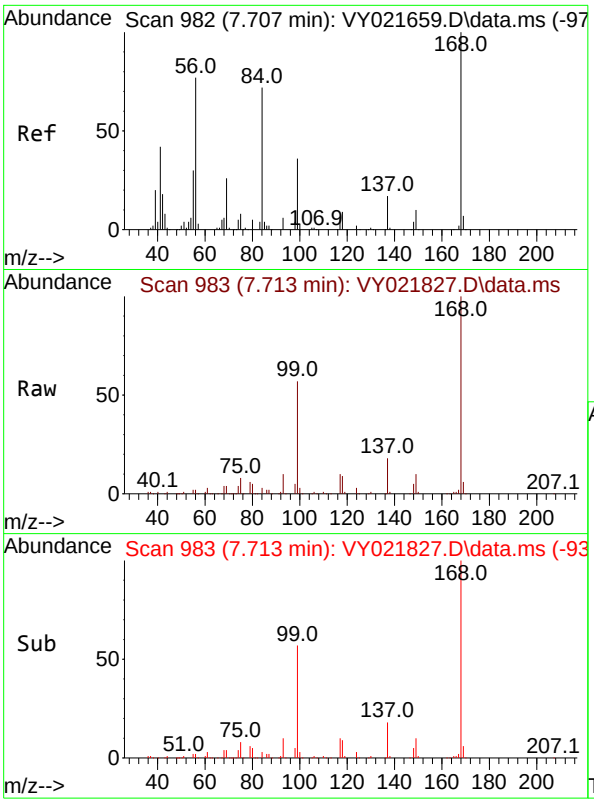
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Time: Apr 11 01:49:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



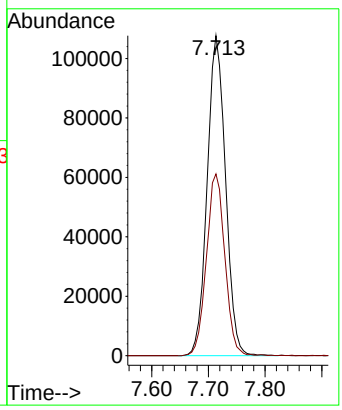


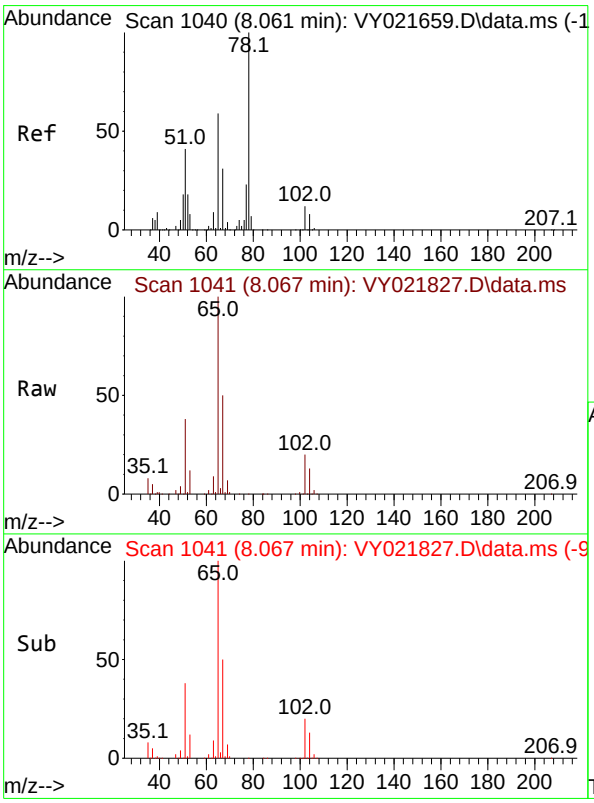
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion:168 Resp: 241941

Ion	Ratio	Lower	Upper
168	100		
99	56.8	46.7	70.1

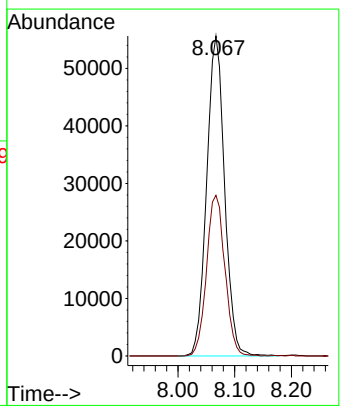


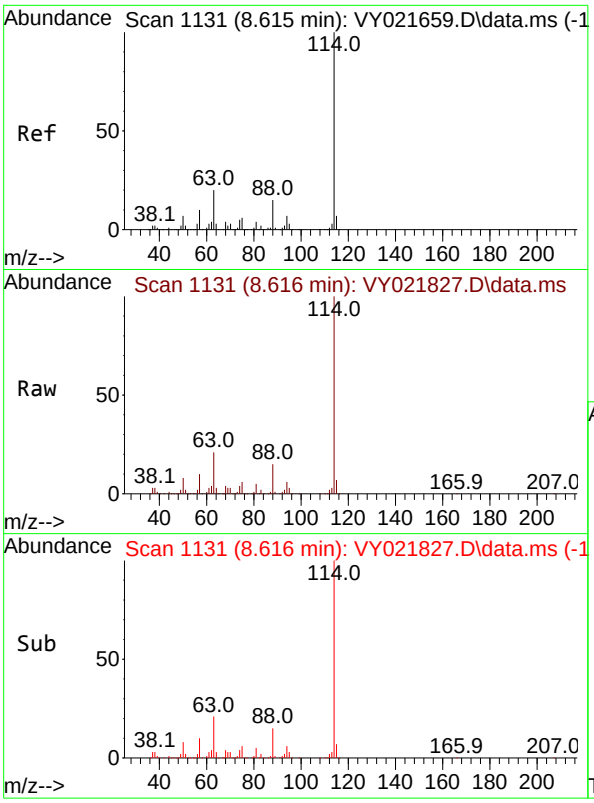


#33
1,2-Dichloroethane-d4
Concen: 46.564 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion: 65 Resp: 122060

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	104.6



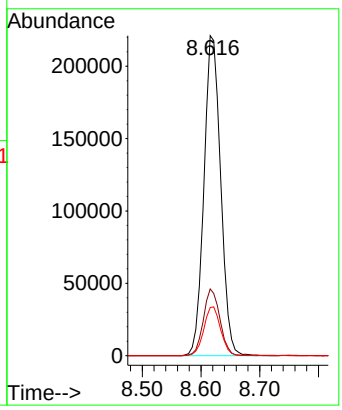


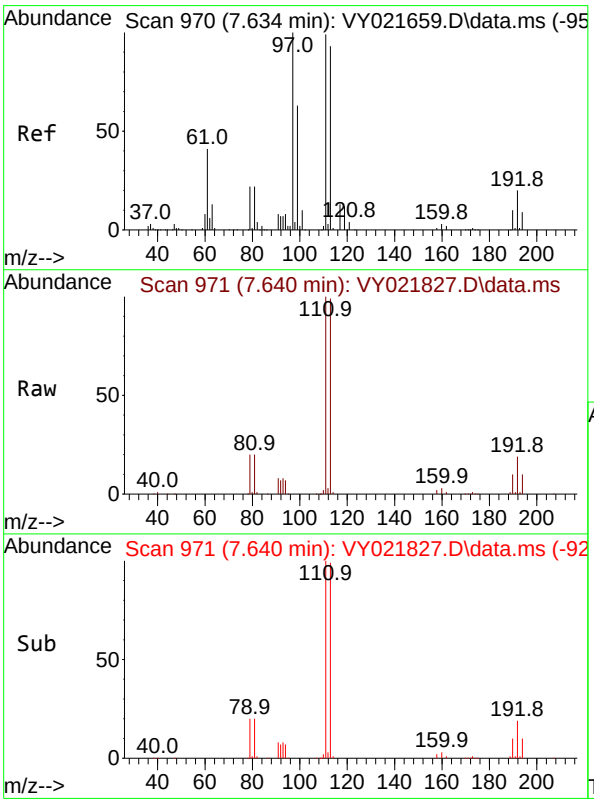
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion:114 Resp: 436661

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.2
88	15.0	0.0	29.8

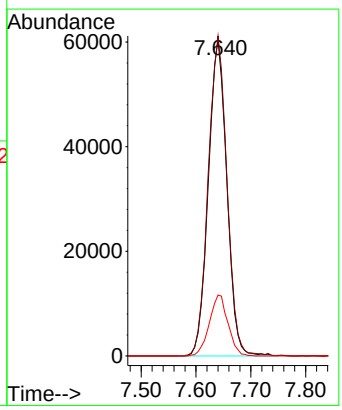


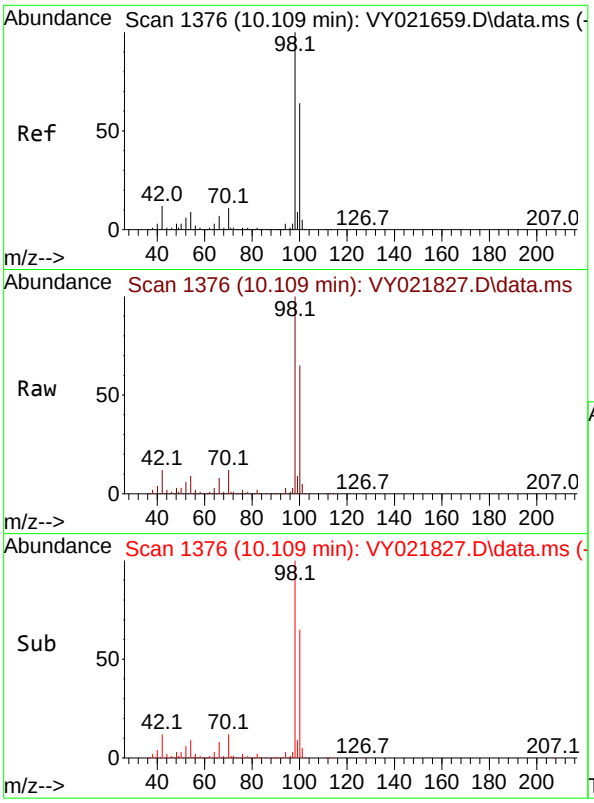


#35
Dibromofluoromethane
Concen: 49.926 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion:113 Resp: 141417

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	123.8
192	19.4	16.2	24.4



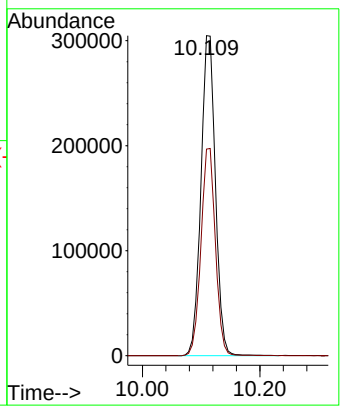


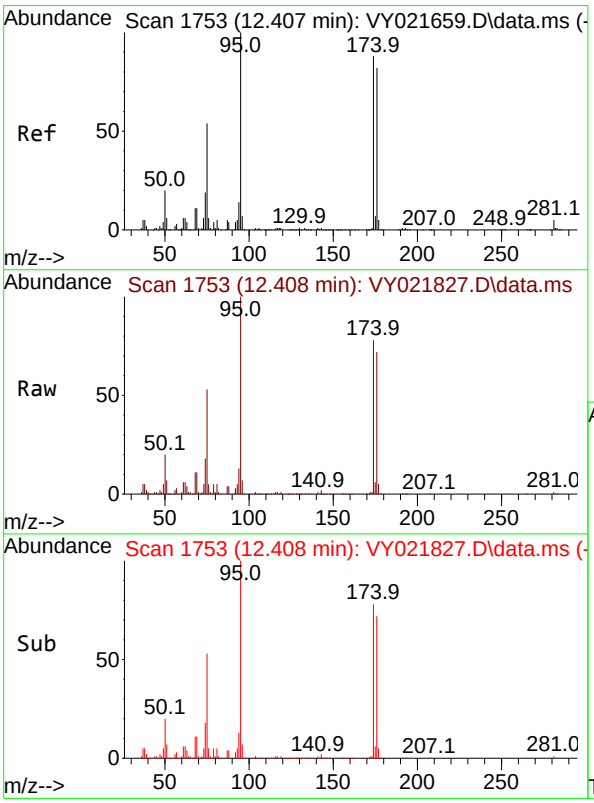
#50
Toluene-d8
Concen: 48.479 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion: 98 Resp: 522401

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1

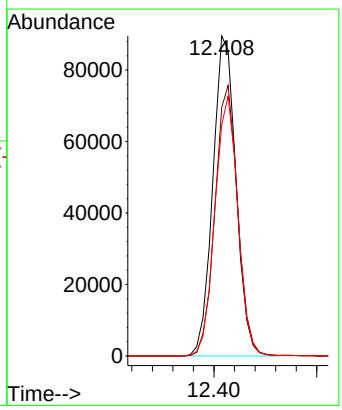


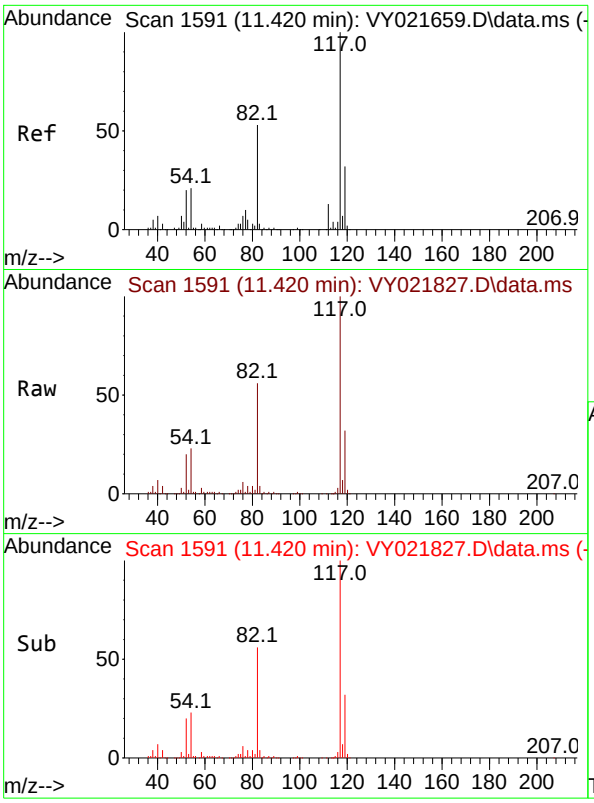


#62
4-Bromofluorobenzene
Concen: 38.297 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion: 95 Resp: 139589

Ion	Ratio	Lower	Upper
95	100		
174	83.3	0.0	170.8
176	80.5	0.0	162.0



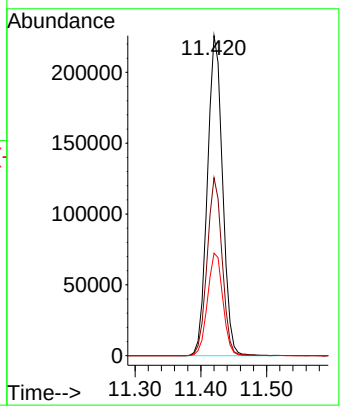


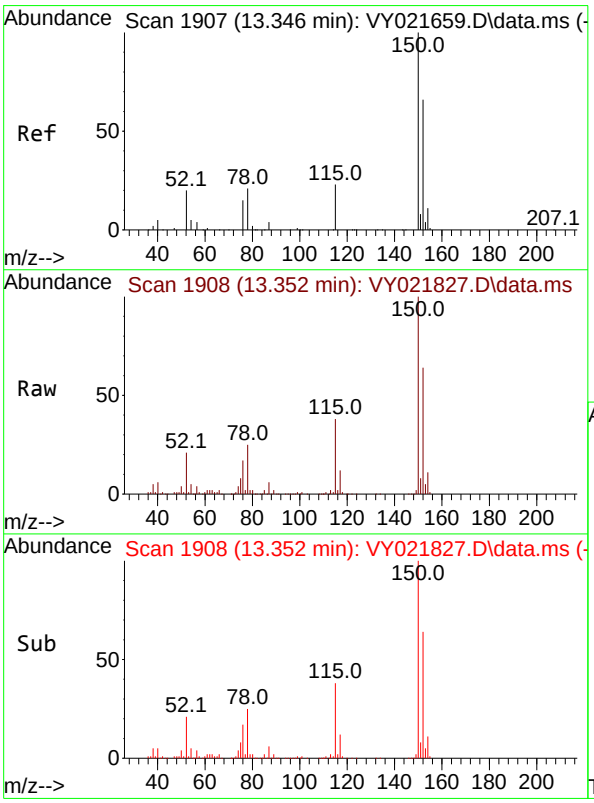
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion:117 Resp: 362482

Ion	Ratio	Lower	Upper
117	100		
82	55.6	42.8	64.2
119	32.1	25.7	38.5

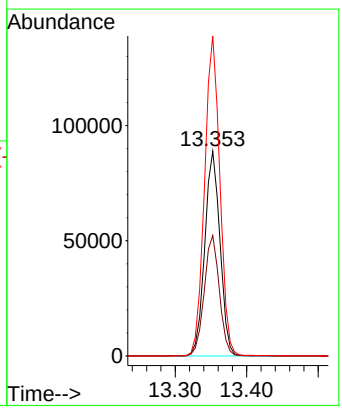




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion:152 Resp: 131635

Ion	Ratio	Lower	Upper
152	100		
115	58.3	28.8	86.5
150	157.0	0.0	348.4



Sample Results: **VY021827.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021827.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.031	44	51	54	rBV2	7198	15307	1.09%	0.228%
2	4.616	467	475	487	rBV4	5587	18418	1.32%	0.274%
3	7.640	961	971	977	rBV2	201212	482255	34.47%	7.170%
4	7.713	977	983	998	rVB	324739	729522	52.14%	10.846%
5	8.067	1031	1041	1054	rBV	157406	345294	24.68%	5.134%
6	8.616	1122	1131	1146	rBV	523823	1036542	74.08%	15.411%
7	10.109	1369	1376	1385	rBV	815279	1399248	100.00%	20.804%
8	11.420	1584	1591	1605	rBV	702355	1135945	81.18%	16.889%
9	12.408	1747	1753	1763	rBV	452170	733514	52.42%	10.906%
10	13.353	1902	1908	1922	rVB	542232	814033	58.18%	12.103%
11	13.889	1991	1996	2005	rVB3	9424	15827	1.13%	0.235%

Sum of corrected areas: 6725905

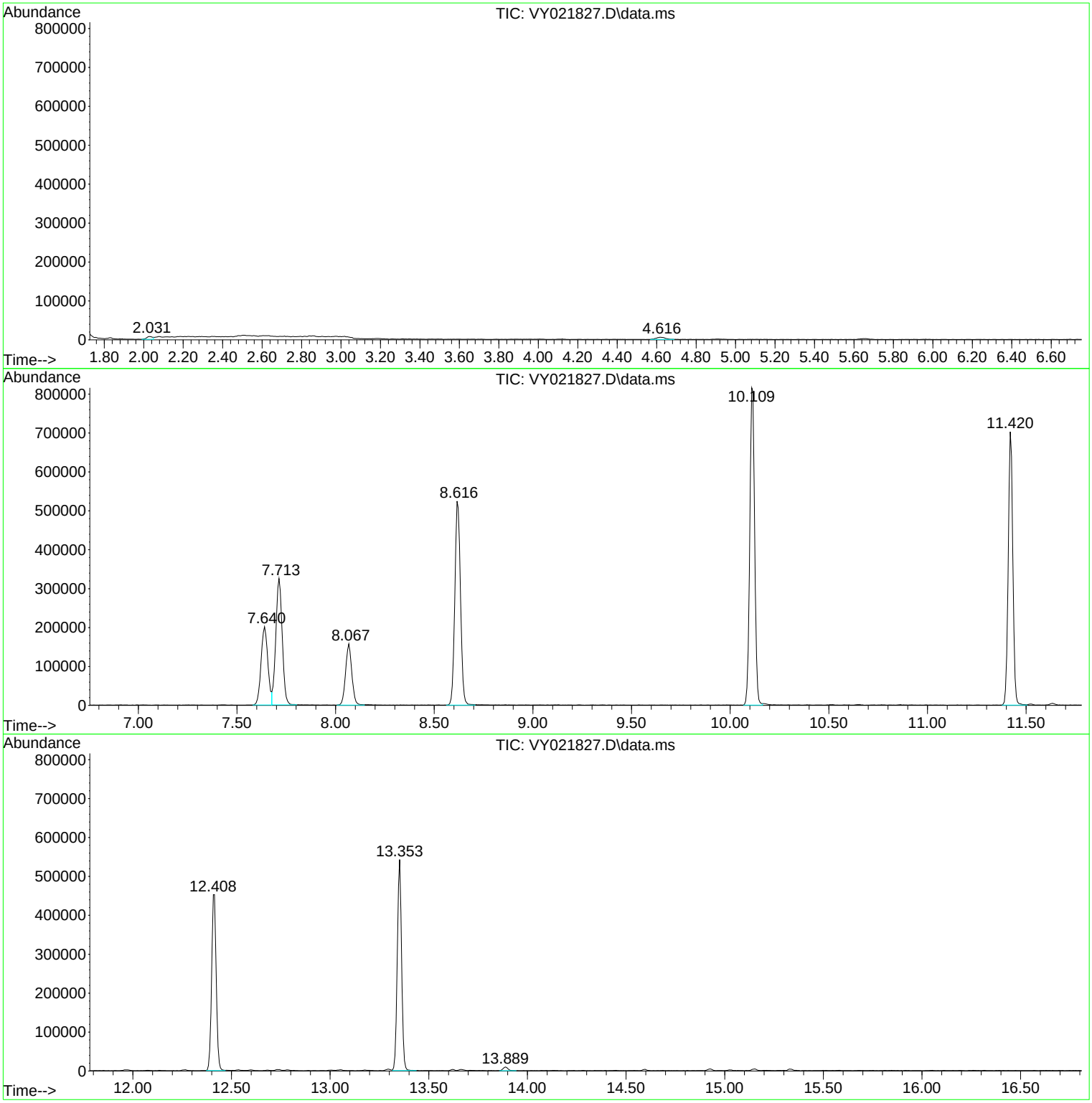
Sample Results: **VY021827.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VY021827.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

A
B
C
D
E
F
G
H
I
J

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045617.D
Acq On : 07 Apr 2025 10:34
Operator : JC/MD
Sample : VX0407WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 08 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	89694	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	158717	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64861	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83331	50.803	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.600%			
35) Dibromofluoromethane	5.379	113	56342	50.033	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.060%			
50) Toluene-d8	8.647	98	195538	49.749	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.500%			
62) 4-Bromofluorobenzene	11.079	95	72106	50.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.720%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	26539	19.785	ug/l	96
3) Chloromethane	1.307	50	24082	17.476	ug/l	98
4) Vinyl Chloride	1.374	62	22749	18.039	ug/l	96
5) Bromomethane	1.593	94	10531	17.611	ug/l	95
6) Chloroethane	1.666	64	13064	19.525	ug/l	95
7) Trichlorofluoromethane	1.874	101	35064	18.645	ug/l	98
8) Diethyl Ether	2.130	74	10899	17.262	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	20363	18.479	ug/l	99
10) Methyl Iodide	2.447	142	23748	17.277	ug/l	98
11) Tert butyl alcohol	2.977	59	19430	88.142	ug/l	99
12) 1,1-Dichloroethene	2.313	96	18864	17.519	ug/l	96
13) Acrolein	2.233	56	32886	108.334	ug/l	98
14) Allyl chloride	2.654	41	37227	18.221	ug/l	99
15) Acrylonitrile	3.062	53	64059	92.059	ug/l	98
16) Acetone	2.380	43	60898	90.415	ug/l	96
17) Carbon Disulfide	2.502	76	44530	16.744	ug/l	100
18) Methyl Acetate	2.703	43	29937	19.305	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	66392	17.626	ug/l	99
20) Methylene Chloride	2.782	84	22301	17.686	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	19342	17.583	ug/l	96
22) Diisopropyl ether	3.764	45	70517	17.522	ug/l	90
23) Vinyl Acetate	3.721	43	307639	88.474	ug/l	98
24) 1,1-Dichloroethane	3.605	63	40491	17.790	ug/l	99
25) 2-Butanone	4.556	43	89883	91.166	ug/l	100
26) 2,2-Dichloropropane	4.465	77	29308	19.930	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	23391	17.453	ug/l	96
28) Bromochloromethane	4.897	49	22119	20.110	ug/l	99
29) Tetrahydrofuran	5.007	42	57774	90.384	ug/l	99
30) Chloroform	5.093	83	42943	18.336	ug/l	99
31) Cyclohexane	5.458	56	34529	17.161	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	35642	17.986	ug/l	99
36) 1,1-Dichloropropene	5.684	75	27361	17.995	ug/l	99
37) Ethyl Acetate	4.721	43	32485	16.954	ug/l	98
38) Carbon Tetrachloride	5.672	117	30822	18.757	ug/l	97
39) Methylcyclohexane	7.373	83	32996	17.704	ug/l	97
40) Benzene	6.031	78	83405	17.961	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045617.D
Acq On : 07 Apr 2025 10:34
Operator : JC/MD
Sample : VX0407WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 08 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	18930	18.724	ug/l		99
42) 1,2-Dichloroethane	6.086	62	35769	18.650	ug/l		100
43) Isopropyl Acetate	6.342	43	52567	18.101	ug/l		99
44) Trichloroethene	7.123	130	19895	18.025	ug/l		98
45) 1,2-Dichloropropane	7.428	63	21087	18.200	ug/l		100
46) Dibromomethane	7.580	93	16073	18.071	ug/l		97
47) Bromodichloromethane	7.818	83	32271	18.168	ug/l		97
48) Methyl methacrylate	7.696	41	27006	18.011	ug/l		99
49) 1,4-Dioxane	7.659	88	10577	389.882	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	181149	94.095	ug/l		98
52) Toluene	8.714	92	50130	17.841	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	26146	16.895	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	30988	18.565	ug/l		99
55) 1,1,2-Trichloroethane	9.153	97	20414	18.232	ug/l		92
56) Ethyl methacrylate	9.116	69	30029	17.329	ug/l		96
57) 1,3-Dichloropropane	9.305	76	35623	18.270	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	69612	79.411	ug/l		100
59) 2-Hexanone	9.427	43	130780	91.734	ug/l		100
60) Dibromochloromethane	9.519	129	22685	18.584	ug/l		99
61) 1,2-Dibromoethane	9.610	107	20690	18.254	ug/l		99
64) Tetrachloroethene	9.269	164	18965	19.327	ug/l		93
65) Chlorobenzene	10.079	112	54159	18.237	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	18533	17.975	ug/l		100
67) Ethyl Benzene	10.189	91	96615	18.164	ug/l		98
68) m/p-Xylenes	10.299	106	70049	36.210	ug/l		98
69) o-Xylene	10.640	106	34794	18.258	ug/l		98
70) Styrene	10.653	104	57575	18.305	ug/l		99
71) Bromoform	10.799	173	14155	18.386	ug/l	#	98
73) Isopropylbenzene	10.963	105	92499	17.804	ug/l		99
74) N-amyl acetate	10.842	43	42430	17.073	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	32065	17.569	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	27650m	17.477	ug/l		
77) Bromobenzene	11.195	156	21356	17.790	ug/l		98
78) n-propylbenzene	11.305	91	105538	17.636	ug/l		100
79) 2-Chlorotoluene	11.360	91	67251	17.579	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	76216	17.740	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	7803	16.739	ug/l		96
82) 4-Chlorotoluene	11.451	91	75042	17.593	ug/l		100
83) tert-Butylbenzene	11.713	119	74797	17.585	ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	76620	17.769	ug/l		99
85) sec-Butylbenzene	11.890	105	92241	17.657	ug/l		100
86) p-Isopropyltoluene	12.006	119	75592	17.551	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	37807	17.302	ug/l		99
88) 1,4-Dichlorobenzene	12.043	146	37519	16.936	ug/l		97
89) n-Butylbenzene	12.329	91	64350	17.230	ug/l		98
90) Hexachloroethane	12.536	117	13254	17.906	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	38002	17.492	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6802	17.821	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	19889	16.447	ug/l		98
94) Hexachlorobutadiene	13.719	225	9339	17.922	ug/l		96
95) Naphthalene	13.774	128	73854	16.411	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	21009	16.591	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045617.D
Acq On : 07 Apr 2025 10:34
Operator : JC/MD
Sample : VX0407WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 08 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

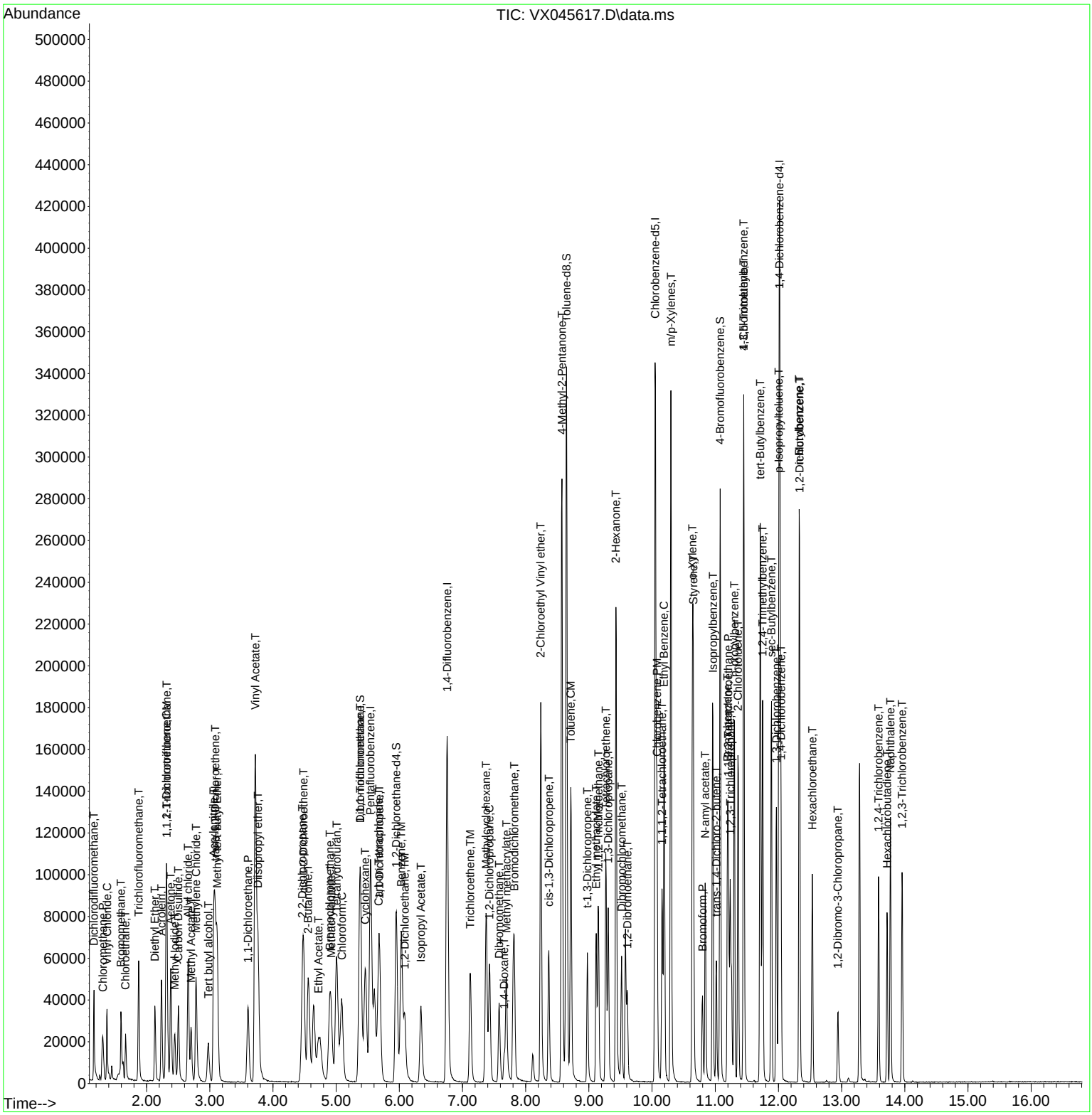
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045617.D
Acq On : 07 Apr 2025 10:34
Operator : JC/MD
Sample : VX0407WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 08 01:34:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	106087	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	183473	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162323	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92530	47.695	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.380%			
35) Dibromofluoromethane	5.373	113	61662	47.369	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.740%			
50) Toluene-d8	8.641	98	216926	47.743	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.480%			
62) 4-Bromofluorobenzene	11.079	95	80611	48.707	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29914	18.855	ug/l	99
3) Chloromethane	1.307	50	27322	16.763	ug/l	98
4) Vinyl Chloride	1.374	62	25746	17.260	ug/l	100
5) Bromomethane	1.593	94	11482	16.235	ug/l	96
6) Chloroethane	1.666	64	14395	18.190	ug/l	95
7) Trichlorofluoromethane	1.874	101	40244	18.093	ug/l	97
8) Diethyl Ether	2.130	74	12439	16.657	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	23844	18.294	ug/l	97
10) Methyl Iodide	2.441	142	26769	16.466	ug/l	98
11) Tert butyl alcohol	2.971	59	21638	82.991	ug/l	97
12) 1,1-Dichloroethene	2.313	96	21916	17.208	ug/l	95
13) Acrolein	2.233	56	36556	101.816	ug/l	98
14) Allyl chloride	2.654	41	42463	17.572	ug/l	99
15) Acrylonitrile	3.062	53	70851	86.086	ug/l	99
16) Acetone	2.380	43	81335	102.097	ug/l	100
17) Carbon Disulfide	2.502	76	51049	16.229	ug/l	97
18) Methyl Acetate	2.703	43	34096	18.589	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	75408	16.926	ug/l	98
20) Methylene Chloride	2.782	84	25221	16.911	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	21749	16.716	ug/l	99
22) Diisopropyl ether	3.757	45	81207	17.060	ug/l	92
23) Vinyl Acetate	3.715	43	348840	84.821	ug/l	99
24) 1,1-Dichloroethane	3.599	63	45621	16.947	ug/l	99
25) 2-Butanone	4.550	43	107323	92.034	ug/l	98
26) 2,2-Dichloropropane	4.465	77	33325	19.160	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	26725	16.859	ug/l	98
28) Bromochloromethane	4.891	49	22375	17.200	ug/l	99
29) Tetrahydrofuran	5.001	42	62452	82.605	ug/l	98
30) Chloroform	5.080	83	48636	17.558	ug/l	98
31) Cyclohexane	5.464	56	39885	16.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	40095	17.106	ug/l	99
36) 1,1-Dichloropropene	5.684	75	31193	17.747	ug/l	99
37) Ethyl Acetate	4.709	43	38472	17.369	ug/l	99
38) Carbon Tetrachloride	5.666	117	35214	18.538	ug/l	98
39) Methylcyclohexane	7.373	83	40391	18.747	ug/l	99
40) Benzene	6.025	78	94288	17.565	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	21289	18.216	ug/l		99
42) 1,2-Dichloroethane	6.080	62	40303	18.178	ug/l		99
43) Isopropyl Acetate	6.336	43	57663	17.177	ug/l		99
44) Trichloroethene	7.117	130	22414	17.568	ug/l		93
45) 1,2-Dichloropropane	7.421	63	23615	17.632	ug/l		100
46) Dibromomethane	7.574	93	18014	17.521	ug/l		99
47) Bromodichloromethane	7.818	83	37430	18.230	ug/l		99
48) Methyl methacrylate	7.690	41	30543	17.621	ug/l		99
49) 1,4-Dioxane	7.659	88	11370	362.562	ug/l		98
51) 4-Methyl-2-Pentanone	8.568	43	202243	90.877	ug/l		99
52) Toluene	8.714	92	56640	17.438	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	29965	16.770	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	34907	18.091	ug/l		92
55) 1,1,2-Trichloroethane	9.147	97	23346	18.037	ug/l		96
56) Ethyl methacrylate	9.116	69	34568	17.257	ug/l		99
57) 1,3-Dichloropropane	9.305	76	40917	18.154	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	85635	84.508	ug/l		100
59) 2-Hexanone	9.427	43	149739	90.861	ug/l		99
60) Dibromochloromethane	9.519	129	25744	18.244	ug/l		99
61) 1,2-Dibromoethane	9.604	107	23565	17.985	ug/l		99
64) Tetrachloroethene	9.269	164	20355	17.761	ug/l		99
65) Chlorobenzene	10.073	112	62155	17.919	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	20950	17.397	ug/l		98
67) Ethyl Benzene	10.189	91	111490	17.947	ug/l		100
68) m/p-Xylenes	10.299	106	83112	36.784	ug/l		100
69) o-Xylene	10.640	106	40448	18.172	ug/l		100
70) Styrene	10.653	104	67373	18.340	ug/l		99
71) Bromoform	10.799	173	15756	17.523	ug/l	#	99
73) Isopropylbenzene	10.957	105	107684	17.994	ug/l		100
74) N-amyl acetate	10.842	43	47535	16.605	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	35893	17.074	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	31468m	17.268	ug/l		
77) Bromobenzene	11.195	156	24173	17.482	ug/l		98
78) n-propylbenzene	11.299	91	124284	18.031	ug/l		99
79) 2-Chlorotoluene	11.360	91	78306	17.770	ug/l		98
80) 1,3,5-Trimethylbenzene	11.445	105	91086	18.407	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	8668	16.143	ug/l		92
82) 4-Chlorotoluene	11.451	91	88617	18.037	ug/l		99
83) tert-Butylbenzene	11.713	119	89150	18.197	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	90268	18.174	ug/l		100
85) sec-Butylbenzene	11.890	105	112118	18.632	ug/l		100
86) p-Isopropyltoluene	12.006	119	91838	18.512	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	45298	17.997	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	44628	17.490	ug/l		98
89) n-Butylbenzene	12.329	91	79354	18.446	ug/l		100
90) Hexachloroethane	12.536	117	15692	18.405	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	44340	17.719	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7797	17.735	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	23843	17.118	ug/l		98
94) Hexachlorobutadiene	13.725	225	11570	19.276	ug/l		98
95) Naphthalene	13.774	128	86898	16.764	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	24888	17.064	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

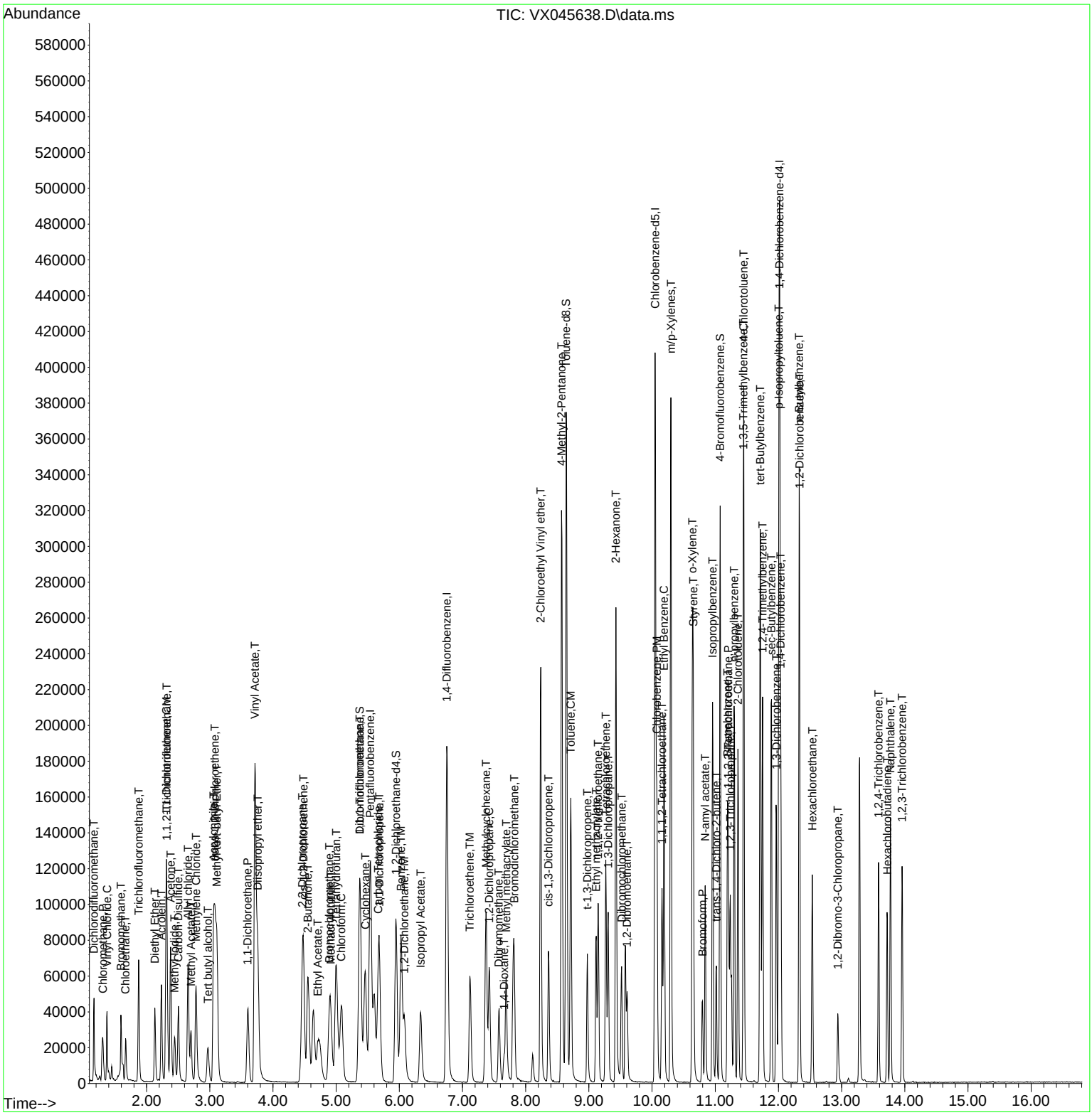
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	202932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	310477	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	276303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	144045	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	108092	49.162	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.320%			
35) Dibromofluoromethane	7.634	113	107537	53.394	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.780%			
50) Toluene-d8	10.109	98	416120	54.310	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.620%			
62) 4-Bromofluorobenzene	12.408	95	138064	53.273	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	38628	18.365	ug/l	99
3) Chloromethane	2.068	50	58925	19.923	ug/l	96
4) Vinyl Chloride	2.208	62	64218	19.200	ug/l	98
5) Bromomethane	2.592	94	43240	18.954	ug/l	99
6) Chloroethane	2.739	64	42301	19.327	ug/l	99
7) Trichlorofluoromethane	3.062	101	83189	19.415	ug/l	99
8) Diethyl Ether	3.458	74	21206	18.199	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	46562	20.604	ug/l	99
10) Methyl Iodide	4.007	142	53784	21.694	ug/l	98
11) Tert butyl alcohol	4.879	59	10132	70.946	ug/l	95
12) 1,1-Dichloroethene	3.793	96	42528	19.980	ug/l	99
13) Acrolein	3.653	56	11686	44.814	ug/l	94
14) Allyl chloride	4.385	41	65088	19.178	ug/l	99
15) Acrylonitrile	5.068	53	43512	89.436	ug/l	98
16) Acetone	3.873	43	41416	92.038	ug/l	96
17) Carbon Disulfide	4.110	76	130398	18.599	ug/l	97
18) Methyl Acetate	4.397	43	20074	17.999	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	92229	17.404	ug/l	98
20) Methylene Chloride	4.622	84	50670	20.749	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	45867	19.571	ug/l	97
22) Diisopropyl ether	6.019	45	141226	19.837	ug/l	96
23) Vinyl Acetate	5.964	43	365289	87.708	ug/l	100
24) 1,1-Dichloroethane	5.921	63	86526	20.326	ug/l	97
25) 2-Butanone	6.896	43	56134	87.338	ug/l	96
26) 2,2-Dichloropropane	6.890	77	75531	19.946	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	51999	19.730	ug/l	98
28) Bromochloromethane	7.250	49	34985	19.487	ug/l	99
29) Tetrahydrofuran	7.262	42	32784	79.255	ug/l	99
30) Chloroform	7.427	83	88600	20.010	ug/l	96
31) Cyclohexane	7.701	56	71321	18.379	ug/l	93
32) 1,1,1-Trichloroethane	7.622	97	80250	20.053	ug/l	99
36) 1,1-Dichloropropene	7.841	75	62612	20.410	ug/l	98
37) Ethyl Acetate	6.982	43	24672	17.041	ug/l	97
38) Carbon Tetrachloride	7.823	117	72409	20.609	ug/l	96
39) Methylcyclohexane	9.116	83	71676	19.559	ug/l	98
40) Benzene	8.085	78	187821	20.444	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	14459m	18.806	ug/l		
42) 1,2-Dichloroethane	8.165	62	51955	20.061	ug/l		99
43) Isopropyl Acetate	8.201	43	49178	17.925	ug/l		98
44) Trichloroethene	8.872	130	48276	20.624	ug/l		95
45) 1,2-Dichloropropane	9.146	63	45055	20.719	ug/l		96
46) Dibromomethane	9.238	93	24846	19.825	ug/l		96
47) Bromodichloromethane	9.426	83	66235	20.396	ug/l		96
48) Methyl methacrylate	9.225	41	22658	17.994	ug/l		96
49) 1,4-Dioxane	9.244	88	4766	354.991	ug/l		91
51) 4-Methyl-2-Pentanone	10.000	43	122559	85.840	ug/l		100
52) Toluene	10.176	92	120366	21.000	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	55243	19.152	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	66307	19.486	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	32227	19.982	ug/l		99
56) Ethyl methacrylate	10.445	69	37122	18.026	ug/l		98
57) 1,3-Dichloropropane	10.719	76	55701	19.997	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	94741	94.305	ug/l		99
59) 2-Hexanone	10.768	43	82164	86.409	ug/l		99
60) Dibromochloromethane	10.914	129	44255	20.098	ug/l		97
61) 1,2-Dibromoethane	11.018	107	30322	20.042	ug/l		98
64) Tetrachloroethene	10.652	164	52581	20.895	ug/l		99
65) Chlorobenzene	11.444	112	130234	20.562	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	46518	20.700	ug/l		100
67) Ethyl Benzene	11.524	91	222629	20.498	ug/l		100
68) m/p-Xylenes	11.633	106	174884	42.050	ug/l		99
69) o-Xylene	11.957	106	78381	20.417	ug/l		99
70) Styrene	11.975	104	131308	20.514	ug/l		100
71) Bromoform	12.133	173	24956	19.469	ug/l	#	98
73) Isopropylbenzene	12.261	105	211237	19.744	ug/l		100
74) N-amyl acetate	12.072	43	42471	16.915	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.511	83	34921	18.155	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	28984m	20.299	ug/l		
77) Bromobenzene	12.536	156	50775	19.766	ug/l		97
78) n-propylbenzene	12.597	91	263112	20.456	ug/l		100
79) 2-Chlorotoluene	12.682	91	150601	20.159	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	176133	20.143	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	10119	16.329	ug/l		98
82) 4-Chlorotoluene	12.780	91	156256	20.062	ug/l		98
83) tert-Butylbenzene	12.999	119	151289	19.425	ug/l		97
84) 1,2,4-Trimethylbenzene	13.048	105	178636	20.670	ug/l		99
85) sec-Butylbenzene	13.176	105	233001	20.471	ug/l		100
86) p-Isopropyltoluene	13.298	119	192832	20.499	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	104101	20.569	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	102343	20.468	ug/l		98
89) n-Butylbenzene	13.621	91	177878	20.446	ug/l		100
90) Hexachloroethane	13.883	117	41809	20.281	ug/l		99
91) 1,2-Dichlorobenzene	13.664	146	89555	20.328	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5251	17.613	ug/l		100
93) 1,2,4-Trichlorobenzene	14.926	180	47966	20.077	ug/l		100
94) Hexachlorobutadiene	15.029	225	32148	21.546	ug/l		97
95) Naphthalene	15.145	128	69458	17.539	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	39920	19.594	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

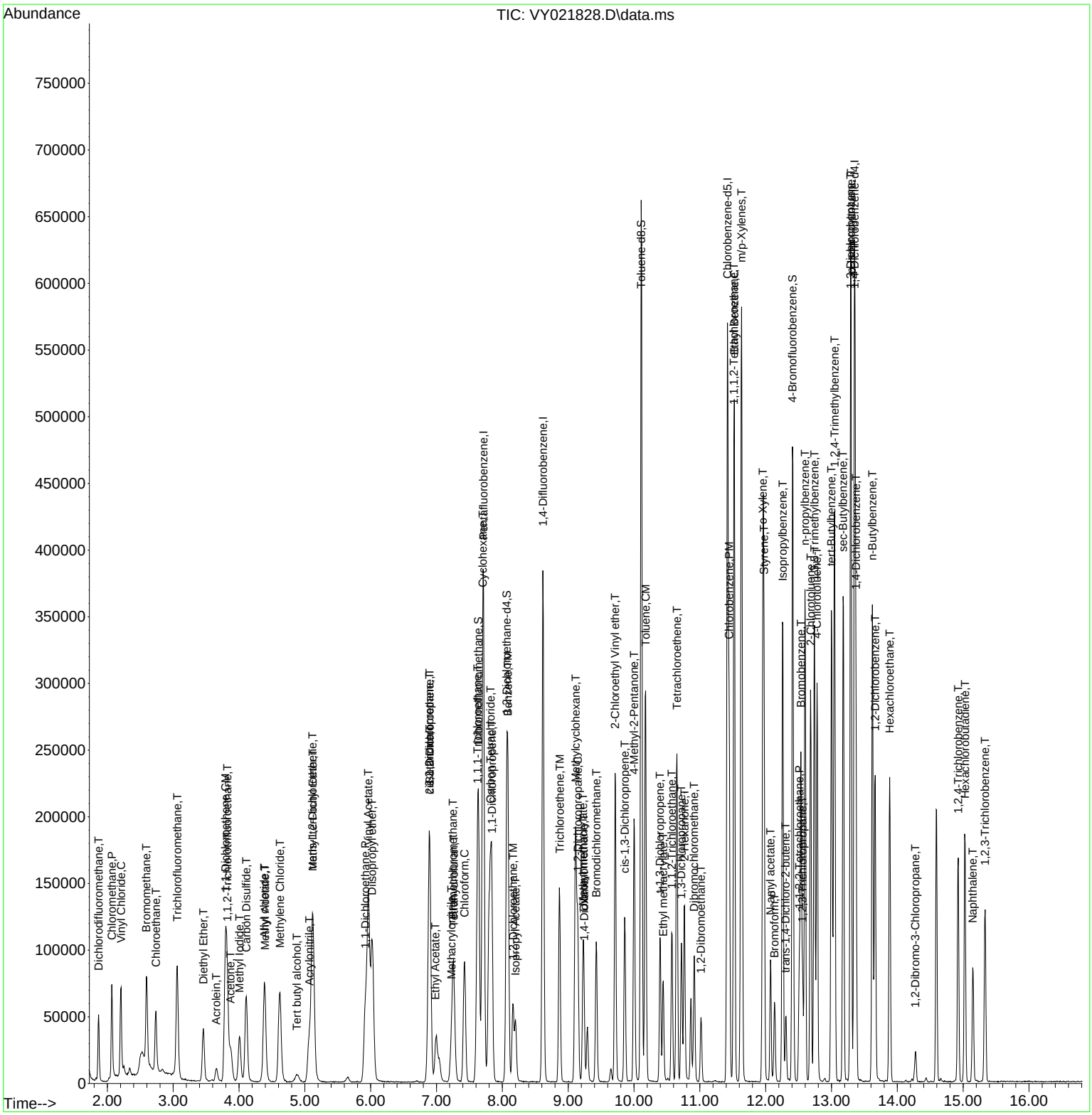
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045618.D
Acq On : 07 Apr 2025 11:00
Operator : JC/MD
Sample : VX0407WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 08 01:34:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	93507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162585	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	145391	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67274	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86754	50.733	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.460%			
35) Dibromofluoromethane	5.379	113	58627	50.823	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.640%			
50) Toluene-d8	8.647	98	205510	51.042	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	11.079	95	77176	52.623	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28256	20.206	ug/l	97
3) Chloromethane	1.307	50	26379	18.362	ug/l	98
4) Vinyl Chloride	1.374	62	24396	18.556	ug/l	99
5) Bromomethane	1.593	94	11442	18.355	ug/l	100
6) Chloroethane	1.666	64	13473	19.315	ug/l	98
7) Trichlorofluoromethane	1.874	101	37936	19.350	ug/l	96
8) Diethyl Ether	2.130	74	12915	19.621	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	22715	19.772	ug/l	98
10) Methyl Iodide	2.447	142	26869	18.751	ug/l	97
11) Tert butyl alcohol	2.971	59	22868	99.508	ug/l	97
12) 1,1-Dichloroethene	2.306	96	21168	18.857	ug/l	99
13) Acrolein	2.233	56	35924	113.516	ug/l	100
14) Allyl chloride	2.654	41	40789	19.151	ug/l	98
15) Acrylonitrile	3.062	53	73196	100.900	ug/l	99
16) Acetone	2.380	43	68241	97.185	ug/l	98
17) Carbon Disulfide	2.502	76	48814	17.606	ug/l	98
18) Methyl Acetate	2.703	43	34680	21.452	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	76336	19.439	ug/l	98
20) Methylene Chloride	2.782	84	25518	19.412	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	21273	18.549	ug/l	100
22) Diisopropyl ether	3.764	45	80682	19.230	ug/l	98
23) Vinyl Acetate	3.715	43	356046	98.220	ug/l	99
24) 1,1-Dichloroethane	3.605	63	44356	18.694	ug/l	97
25) 2-Butanone	4.556	43	104492	101.662	ug/l	98
26) 2,2-Dichloropropane	4.465	77	31982	20.862	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	26011	18.616	ug/l	97
28) Bromochloromethane	4.891	49	22978	20.040	ug/l	98
29) Tetrahydrofuran	5.001	42	65156	97.776	ug/l	99
30) Chloroform	5.086	83	47624	19.506	ug/l	96
31) Cyclohexane	5.464	56	38905	18.547	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	39618	19.177	ug/l	100
36) 1,1-Dichloropropene	5.684	75	30465	19.560	ug/l	100
37) Ethyl Acetate	4.721	43	38899	19.818	ug/l	99
38) Carbon Tetrachloride	5.666	117	33248	19.752	ug/l	98
39) Methylcyclohexane	7.373	83	38177	19.996	ug/l	96
40) Benzene	6.031	78	91150	19.162	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045618.D
Acq On : 07 Apr 2025 11:00
Operator : JC/MD
Sample : VX0407WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 08 01:34:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	21271	20.539	ug/l		99
42) 1,2-Dichloroethane	6.080	62	39959	20.339	ug/l		100
43) Isopropyl Acetate	6.342	43	58786	19.761	ug/l		99
44) Trichloroethene	7.123	130	21729	19.219	ug/l		88
45) 1,2-Dichloropropane	7.421	63	23702	19.970	ug/l		98
46) Dibromomethane	7.580	93	18716	20.542	ug/l		99
47) Bromodichloromethane	7.818	83	36649	20.142	ug/l		99
48) Methyl methacrylate	7.690	41	31907	20.773	ug/l		97
49) 1,4-Dioxane	7.659	88	11975	430.912	ug/l		97
51) 4-Methyl-2-Pentanone	8.568	43	211251	107.120	ug/l		98
52) Toluene	8.714	92	55720	19.358	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	31005	19.198	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	34423	20.132	ug/l		94
55) 1,1,2-Trichloroethane	9.147	97	23192	20.220	ug/l		98
56) Ethyl methacrylate	9.116	69	35299	19.886	ug/l		97
57) 1,3-Dichloropropane	9.305	76	40797	20.426	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	87486	97.427	ug/l		100
59) 2-Hexanone	9.427	43	153590	105.171	ug/l		99
60) Dibromochloromethane	9.519	129	26035	20.821	ug/l		97
61) 1,2-Dibromoethane	9.604	107	23509	20.247	ug/l		98
64) Tetrachloroethene	9.269	164	20605	20.073	ug/l		94
65) Chlorobenzene	10.079	112	60863	19.590	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	20941	19.415	ug/l		100
67) Ethyl Benzene	10.189	91	107790	19.372	ug/l		96
68) m/p-Xylenes	10.299	106	80662	39.857	ug/l		99
69) o-Xylene	10.640	106	39467	19.797	ug/l		100
70) Styrene	10.653	104	64968	19.745	ug/l		98
71) Bromoform	10.799	173	16188	20.100	ug/l	#	99
73) Isopropylbenzene	10.957	105	103110	19.134	ug/l		99
74) N-amyl acetate	10.842	43	48934	18.984	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	36638	19.355	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	31763m	19.356	ug/l		
77) Bromobenzene	11.195	156	23480	18.858	ug/l		98
78) n-propylbenzene	11.299	91	121267	19.537	ug/l		100
79) 2-Chlorotoluene	11.360	91	75840	19.113	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	87725	19.687	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	8584	17.754	ug/l		89
82) 4-Chlorotoluene	11.451	91	85085	19.232	ug/l		99
83) tert-Butylbenzene	11.713	119	84926	19.251	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	88466	19.780	ug/l		99
85) sec-Butylbenzene	11.890	105	107778	19.891	ug/l		99
86) p-Isopropyltoluene	12.006	119	88276	19.761	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	43318	19.113	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	42759	18.610	ug/l		97
89) n-Butylbenzene	12.329	91	74035	19.112	ug/l		99
90) Hexachloroethane	12.536	117	15028	19.575	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	42539	18.878	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8100	20.460	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	22882	18.243	ug/l		99
94) Hexachlorobutadiene	13.725	225	10556	19.531	ug/l		98
95) Naphthalene	13.774	128	86377	18.506	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	23845	18.156	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045618.D
Acq On : 07 Apr 2025 11:00
Operator : JC/MD
Sample : VX0407WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 08 01:34:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

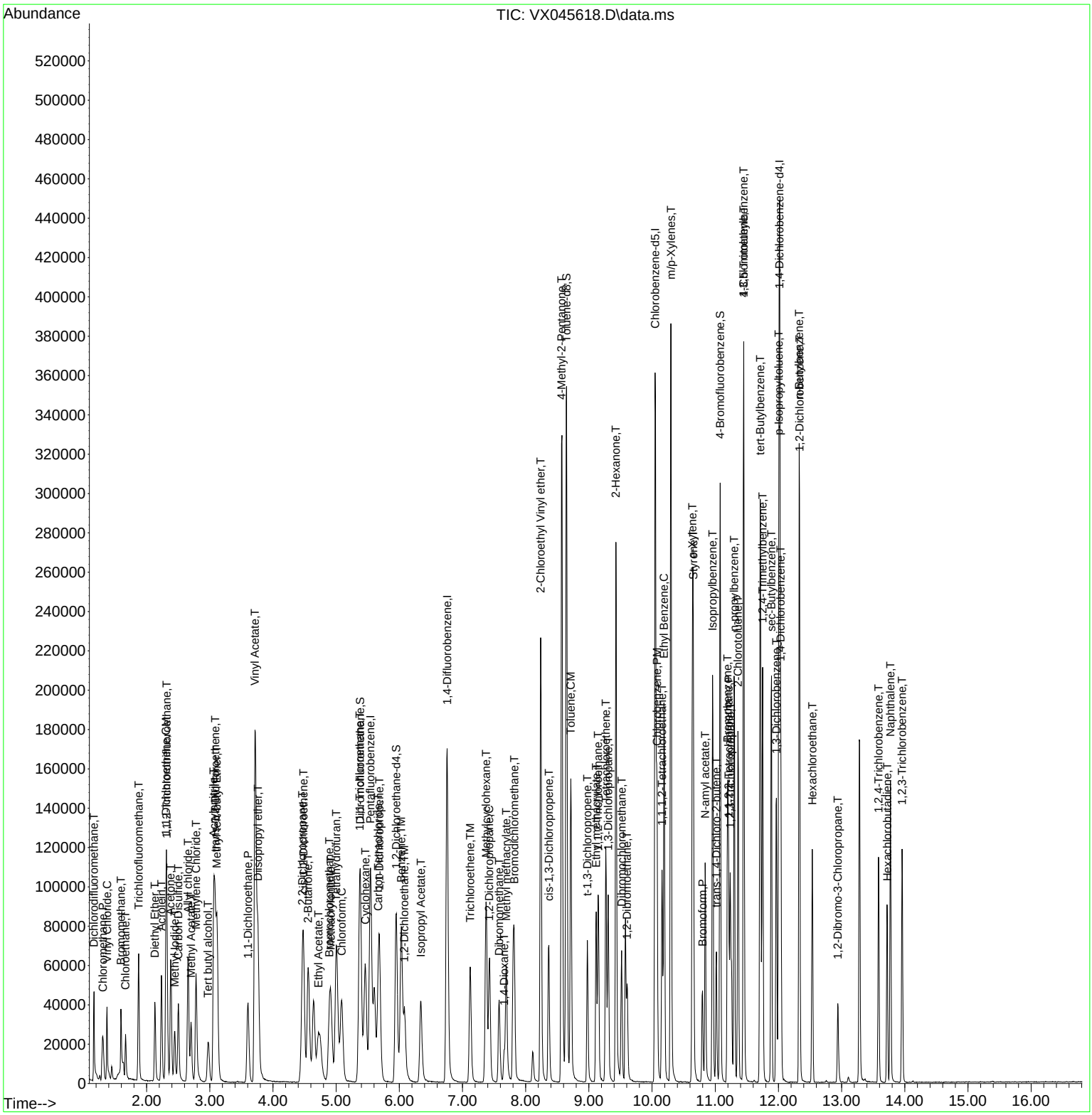
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040725\
Data File : VX045618.D
Acq On : 07 Apr 2025 11:00
Operator : JC/MD
Sample : VX0407WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 08 01:34:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0407WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/08/2025
Supervised By :Mahesh Dadoda 04/08/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021829.D
Acq On : 10 Apr 2025 11:22
Operator : SY/MD
Sample : VY0410SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 01:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	207811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	318832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	284393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	148690	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	109229	48.512	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.020%			
35) Dibromofluoromethane	7.634	113	105361	50.943	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.880%			
50) Toluene-d8	10.109	98	404007	51.348	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.700%			
62) 4-Bromofluorobenzene	12.407	95	134999	50.726	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	39252	18.224	ug/l	100
3) Chloromethane	2.068	50	59786	19.740	ug/l	97
4) Vinyl Chloride	2.202	62	63877	18.649	ug/l	98
5) Bromomethane	2.592	94	43697	18.705	ug/l	98
6) Chloroethane	2.732	64	42704	19.053	ug/l	97
7) Trichlorofluoromethane	3.055	101	84703	19.305	ug/l	96
8) Diethyl Ether	3.458	74	22632	18.967	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.811	101	46252	19.986	ug/l	99
10) Methyl Iodide	4.007	142	55133	21.716	ug/l	100
11) Tert butyl alcohol	4.872	59	12367	84.563	ug/l #	88
12) 1,1-Dichloroethene	3.793	96	40908	18.767	ug/l	93
13) Acrolein	3.659	56	13077	48.971	ug/l	98
14) Allyl chloride	4.384	41	64598	18.587	ug/l	98
15) Acrylonitrile	5.067	53	47442	95.225	ug/l	99
16) Acetone	3.878	43	43633	94.688	ug/l	98
17) Carbon Disulfide	4.104	76	131412	18.304	ug/l	98
18) Methyl Acetate	4.391	43	23701	20.753	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	101520	18.707	ug/l	97
20) Methylene Chloride	4.616	84	50284	19.978	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	46410	19.338	ug/l	96
22) Diisopropyl ether	6.018	45	143976	19.749	ug/l	97
23) Vinyl Acetate	5.963	43	388600	91.114	ug/l	99
24) 1,1-Dichloroethane	5.921	63	86621	19.870	ug/l	99
25) 2-Butanone	6.902	43	60799	92.375	ug/l	98
26) 2,2-Dichloropropane	6.884	77	75992	19.597	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	52039	19.281	ug/l	99
28) Bromochloromethane	7.244	49	35396	19.253	ug/l	99
29) Tetrahydrofuran	7.268	42	38098	89.940	ug/l	99
30) Chloroform	7.421	83	91139	20.100	ug/l	98
31) Cyclohexane	7.707	56	71948	18.105	ug/l	92
32) 1,1,1-Trichloroethane	7.622	97	80786	19.713	ug/l	100
36) 1,1-Dichloropropene	7.835	75	63772	20.244	ug/l	99
37) Ethyl Acetate	6.988	43	28649	19.270	ug/l	99
38) Carbon Tetrachloride	7.817	117	72496	20.093	ug/l	97
39) Methylcyclohexane	9.109	83	71764	19.070	ug/l	96
40) Benzene	8.079	78	191172	20.264	ug/l	99

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Quant Title : SW846 8260
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Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	13035	16.509	ug/l	#	100
42) 1,2-Dichloroethane	8.158	62	53226	20.013	ug/l		100
43) Isopropyl Acetate	8.195	43	52654	18.689	ug/l		97
44) Trichloroethene	8.865	130	49203	20.469	ug/l		99
45) 1,2-Dichloropropane	9.140	63	45352	20.309	ug/l		97
46) Dibromomethane	9.231	93	26214	20.368	ug/l		96
47) Bromodichloromethane	9.426	83	68651	20.586	ug/l		97
48) Methyl methacrylate	9.219	41	24785	19.167	ug/l		99
49) 1,4-Dioxane	9.231	88	5304	384.711	ug/l		92
51) 4-Methyl-2-Pentanone	9.999	43	140723	95.979	ug/l		99
52) Toluene	10.170	92	122020	20.730	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	57294	19.343	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	66901	19.145	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	34280	20.698	ug/l		97
56) Ethyl methacrylate	10.438	69	40341	19.076	ug/l		98
57) 1,3-Dichloropropane	10.719	76	58064	20.300	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	104087	100.892	ug/l		99
59) 2-Hexanone	10.761	43	92479	94.709	ug/l		100
60) Dibromochloromethane	10.914	129	46927	20.753	ug/l		100
61) 1,2-Dibromoethane	11.017	107	30845	19.853	ug/l		99
64) Tetrachloroethene	10.646	164	53276	20.569	ug/l		98
65) Chlorobenzene	11.444	112	130948	20.086	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	47375	20.482	ug/l		99
67) Ethyl Benzene	11.517	91	222087	19.866	ug/l		99
68) m/p-Xylenes	11.627	106	173922	40.629	ug/l		99
69) o-Xylene	11.956	106	79796	20.194	ug/l		99
70) Styrene	11.969	104	133731	20.298	ug/l		99
71) Bromoform	12.133	173	26634	20.187	ug/l	#	99
73) Isopropylbenzene	12.255	105	210811	19.089	ug/l		100
74) N-amyl acetate	12.072	43	45971	17.737	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37011	18.640	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	29935m	20.310	ug/l		
77) Bromobenzene	12.535	156	51940	19.588	ug/l		99
78) n-propylbenzene	12.596	91	262187	19.747	ug/l		99
79) 2-Chlorotoluene	12.682	91	150997	19.580	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	176431	19.547	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	10813	16.904	ug/l		96
82) 4-Chlorotoluene	12.779	91	158350	19.696	ug/l		100
83) tert-Butylbenzene	12.999	119	153070	19.040	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	178830	20.046	ug/l		100
85) sec-Butylbenzene	13.176	105	232616	19.799	ug/l		100
86) p-Isopropyltoluene	13.291	119	193062	19.882	ug/l		100
87) 1,3-Dichlorobenzene	13.291	146	103726	19.855	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	103913	20.132	ug/l		98
89) n-Butylbenzene	13.621	91	175553	19.549	ug/l		99
90) Hexachloroethane	13.883	117	41979	19.728	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	91313	20.079	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5989	19.461	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	51079	20.712	ug/l		99
94) Hexachlorobutadiene	15.023	225	32403	21.038	ug/l		99
95) Naphthalene	15.145	128	81360	19.903	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	44068	20.955	ug/l		100

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Quant Title : SW846 8260
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Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

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Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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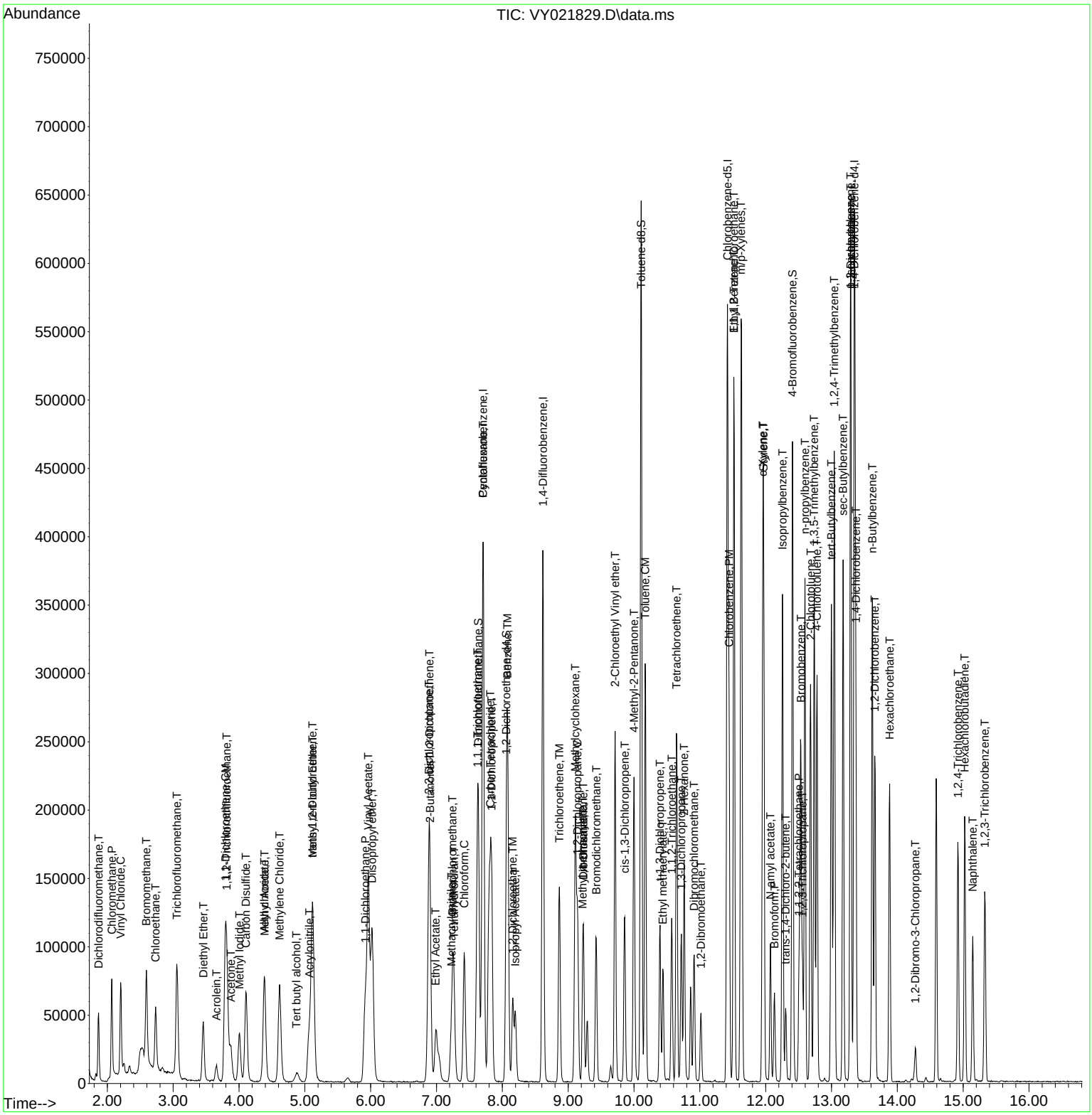

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vx040725	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045614.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:15 AM	MMDadoda	4/8/2025 2:05:07 PM	Peak Integrated by Software
VX0407WBS01	VX045617.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:20 AM	MMDadoda	4/8/2025 2:05:09 PM	Peak Integrated by Software
VX0407WBSD01	VX045618.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:24 AM	MMDadoda	4/8/2025 2:05:10 PM	Peak Integrated by Software
VSTDCCC050	VX045633.D	1,2,3-Trichloropropane	JOHN	4/8/2025 9:58:32 AM	MMDadoda	4/8/2025 2:05:14 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx040825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045635.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:37 AM	MMDadoda	4/9/2025 11:41:11 AM	Peak Integrated by Software
VX0408WBS01	VX045638.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:42 AM	MMDadoda	4/9/2025 11:41:13 AM	Peak Integrated by Software
VSTDCCC050	VX045662.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:53 AM	MMDadoda	4/9/2025 11:41:16 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy032725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021656.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICC005	VY021656.D	Methacrylonitrile	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	Methacrylonitrile	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC020	VY021658.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:20 AM	MMDadoda	3/28/2025 9:32:41 AM	Peak Integrated by Software
VSTDICCC050	VY021659.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICCC050	VY021659.D	Methacrylonitrile	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICC100	VY021660.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:15 AM	MMDadoda	3/28/2025 9:32:49 AM	Peak Integrated by Software
VSTDICC150	VY021661.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:43 AM	MMDadoda	3/28/2025 9:32:53 AM	Peak Integrated by Software
VSTDICV050	VY021663.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:11 AM	MMDadoda	3/28/2025 9:32:04 AM	Peak Integrated by Software
VSTDCCC050	VY021680.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:58 AM	MMDadoda	3/28/2025 9:32:15 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY041025	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021826.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:51 PM	SAM	4/11/2025 2:00:34 PM	Peak Integrated by Software
VY0410SBS01	VY021828.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:53 PM	SAM	4/11/2025 2:00:35 PM	Peak Integrated by Software
VY0410SBS01	VY021828.D	Methacrylonitrile	MMDadoda	4/11/2025 1:58:53 PM	SAM	4/11/2025 2:00:35 PM	Peak Integrated by Software
VY0410SBSD01	VY021829.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:55 PM	SAM	4/11/2025 2:00:37 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040725

Review By	John Carlone	Review On	4/8/2025 10:03:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/8/2025 2:05:33 PM		
SubDirectory	VX040725	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133600
Initial Calibration Stds	
CCC	VP133601,VP133602
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045613.D	07 Apr 2025 08:34	JC/MD	Ok
2	VSTDCCC050	VX045614.D	07 Apr 2025 09:17	JC/MD	Ok,M
3	VX0407MBL01	VX045615.D	07 Apr 2025 09:47	JC/MD	Ok
4	VX0407WBL01	VX045616.D	07 Apr 2025 10:11	JC/MD	Ok
5	VX0407WBS01	VX045617.D	07 Apr 2025 10:34	JC/MD	Ok,M
6	VX0407WBSD01	VX045618.D	07 Apr 2025 11:00	JC/MD	Ok,M
7	Q1731-04	VX045619.D	07 Apr 2025 11:23	JC/MD	Ok
8	Q1731-01	VX045620.D	07 Apr 2025 11:46	JC/MD	Ok,M
9	Q1731-02	VX045621.D	07 Apr 2025 12:09	JC/MD	Ok
10	Q1731-03	VX045622.D	07 Apr 2025 12:33	JC/MD	Ok
11	Q1741-03	VX045623.D	07 Apr 2025 12:56	JC/MD	Ok
12	Q1741-04	VX045624.D	07 Apr 2025 13:19	JC/MD	Ok
13	Q1741-01	VX045625.D	07 Apr 2025 13:43	JC/MD	Not Ok
14	Q1741-02	VX045626.D	07 Apr 2025 14:06	JC/MD	Not Ok
15	IBLK	VX045627.D	07 Apr 2025 14:35	JC/MD	Ok
16	Q1741-02	VX045628.D	07 Apr 2025 14:58	JC/MD	Ok
17	Q1746-08	VX045629.D	07 Apr 2025 15:21	JC/MD	Ok
18	Q1746-07	VX045630.D	07 Apr 2025 15:45	JC/MD	ReRun
19	Q1746-05	VX045631.D	07 Apr 2025 16:08	JC/MD	Ok
20	Q1746-06	VX045632.D	07 Apr 2025 16:31	JC/MD	Ok
21	VSTDCCC050	VX045633.D	07 Apr 2025 16:55	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045634.D	08 Apr 2025 07:49	JC/MD	Ok
2	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	JC/MD	Ok,M
3	VX0408MBL01	VX045636.D	08 Apr 2025 08:49	JC/MD	Ok
4	VX0408WBL01	VX045637.D	08 Apr 2025 09:12	JC/MD	Ok
5	VX0408WBS01	VX045638.D	08 Apr 2025 09:43	JC/MD	Ok,M
6	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08	JC/MD	Ok,M
7	Q1741-01	VX045640.D	08 Apr 2025 10:32	JC/MD	Ok
8	Q1746-07	VX045641.D	08 Apr 2025 10:55	JC/MD	Ok
9	Q1702-03	VX045642.D	08 Apr 2025 11:18	JC/MD	Ok
10	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41	JC/MD	Ok
11	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05	JC/MD	Ok
12	Q1737-02	VX045645.D	08 Apr 2025 12:28	JC/MD	Ok
13	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51	JC/MD	Ok
14	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14	JC/MD	Ok
15	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38	JC/MD	Ok
16	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01	JC/MD	Ok
17	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24	JC/MD	Ok
18	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47	JC/MD	Ok
19	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11	JC/MD	Ok
20	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34	JC/MD	Ok
21	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1745-04	VX045655.D	08 Apr 2025 16:21	JC/MD	Ok
23	Q1732-04	VX045656.D	08 Apr 2025 16:44	JC/MD	Ok
24	Q1740-04	VX045657.D	08 Apr 2025 17:07	JC/MD	Ok
25	Q1745-12	VX045658.D	08 Apr 2025 17:31	JC/MD	Ok
26	Q1743-04	VX045659.D	08 Apr 2025 17:54	JC/MD	Ok
27	Q1744-02	VX045660.D	08 Apr 2025 18:17	JC/MD	Ok
28	Q1744-04	VX045661.D	08 Apr 2025 18:40	JC/MD	Ok
29	VSTDCCC050	VX045662.D	08 Apr 2025 19:04	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM				
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021655.D	27 Mar 2025 09:23	SY/MD	Ok
2	VSTDICC005	VY021656.D	27 Mar 2025 10:08	SY/MD	Ok,M
3	VSTDICC010	VY021657.D	27 Mar 2025 10:31	SY/MD	Ok,M
4	VSTDICC020	VY021658.D	27 Mar 2025 10:54	SY/MD	Ok,M
5	VSTDICCC050	VY021659.D	27 Mar 2025 11:16	SY/MD	Ok,M
6	VSTDICC100	VY021660.D	27 Mar 2025 11:39	SY/MD	Ok,M
7	VSTDICC150	VY021661.D	27 Mar 2025 12:02	SY/MD	Ok,M
8	VIBLK	VY021662.D	27 Mar 2025 12:35	SY/MD	Ok
9	VSTDICV050	VY021663.D	27 Mar 2025 13:15	SY/MD	Ok,M
10	VY0327SBL01	VY021664.D	27 Mar 2025 13:59	SY/MD	Ok
11	VY0327SBS01	VY021665.D	27 Mar 2025 14:38	SY/MD	Ok,M
12	VY0327SBSD01	VY021666.D	27 Mar 2025 15:00	SY/MD	Ok,M
13	Q1661-02	VY021667.D	27 Mar 2025 15:24	SY/MD	Not Ok
14	Q1645-03RE	VY021668.D	27 Mar 2025 15:48	SY/MD	Confirms
15	Q1662-03	VY021669.D	27 Mar 2025 16:11	SY/MD	Not Ok
16	Q1662-07	VY021670.D	27 Mar 2025 16:35	SY/MD	ReRun
17	Q1661-02	VY021671.D	27 Mar 2025 16:58	SY/MD	Not Ok
18	Q1650-02	VY021672.D	27 Mar 2025 17:21	SY/MD	Not Ok
19	Q1654-01	VY021673.D	27 Mar 2025 17:45	SY/MD	Ok
20	Q1656-01	VY021674.D	27 Mar 2025 18:08	SY/MD	Not Ok
21	Q1648-09	VY021675.D	27 Mar 2025 18:32	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM				
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1648-07	VY021676.D	27 Mar 2025 18:55	SY/MD	Ok
23	Q1648-05	VY021677.D	27 Mar 2025 19:19	SY/MD	Ok
24	Q1648-01	VY021678.D	27 Mar 2025 19:42	SY/MD	Ok
25	Q1648-03	VY021679.D	27 Mar 2025 20:05	SY/MD	Ok
26	VSTDCCC050	VY021680.D	27 Mar 2025 20:28	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM				
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021825.D	10 Apr 2025 08:34	SY/MD	Ok
2	VSTDCCC050	VY021826.D	10 Apr 2025 09:51	SY/MD	Ok,M
3	VY0410SBL01	VY021827.D	10 Apr 2025 10:28	SY/MD	Ok
4	VY0410SBS01	VY021828.D	10 Apr 2025 10:59	SY/MD	Ok,M
5	VY0410SBSD01	VY021829.D	10 Apr 2025 11:22	SY/MD	Ok,M
6	Q1747-01RE	VY021830.D	10 Apr 2025 12:06	SY/MD	Not Ok
7	Q1754-01RE	VY021831.D	10 Apr 2025 12:29	SY/MD	Not Ok
8	Q1732-03	VY021832.D	10 Apr 2025 12:53	SY/MD	Ok
9	Q1746-01	VY021833.D	10 Apr 2025 13:16	SY/MD	Ok
10	Q1746-03	VY021834.D	10 Apr 2025 13:40	SY/MD	Ok
11	Q1744-01	VY021835.D	10 Apr 2025 14:03	SY/MD	Ok
12	Q1744-03	VY021836.D	10 Apr 2025 14:26	SY/MD	Ok
13	Q1738-01RE	VY021837.D	10 Apr 2025 14:50	SY/MD	Confirms
14	Q1749-03	VY021838.D	10 Apr 2025 15:13	SY/MD	Ok
15	Q1743-03	VY021839.D	10 Apr 2025 15:37	SY/MD	Ok
16	Q1752-01	VY021840.D	10 Apr 2025 16:00	SY/MD	Ok
17	Q1752-03	VY021841.D	10 Apr 2025 16:24	SY/MD	Ok
18	Q1752-05	VY021842.D	10 Apr 2025 16:47	SY/MD	Ok
19	Q1752-07	VY021843.D	10 Apr 2025 17:10	SY/MD	Ok
20	Q1771-03	VY021844.D	10 Apr 2025 17:34	SY/MD	Ok
21	Q1771-07	VY021845.D	10 Apr 2025 17:57	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1771-11	VY021846.D	10 Apr 2025 18:21	SY/MD	Ok
23	Q1760-03	VY021847.D	10 Apr 2025 18:44	SY/MD	Ok
24	Q1760-07	VY021848.D	10 Apr 2025 19:08	SY/MD	Dilution

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER-	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER-	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040725

Review By	John Carlone	Review On	4/8/2025 10:03:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/8/2025 2:05:33 PM		
SubDirectory	VX040725	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133600
Initial Calibration Stds	
CCC	VP133601,VP133602
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045613.D	07 Apr 2025 08:34		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045614.D	07 Apr 2025 09:17		JC/MD	Ok,M
3	VX0407MBL01	VX0407MBL01	VX045615.D	07 Apr 2025 09:47	pH#Lot#V12668	JC/MD	Ok
4	VX0407WBL01	VX0407WBL01	VX045616.D	07 Apr 2025 10:11		JC/MD	Ok
5	VX0407WBS01	VX0407WBS01	VX045617.D	07 Apr 2025 10:34		JC/MD	Ok,M
6	VX0407WBSD01	VX0407WBSD01	VX045618.D	07 Apr 2025 11:00		JC/MD	Ok,M
7	Q1731-04	RMW-03B-90-040325	VX045619.D	07 Apr 2025 11:23	vial A pH<2	JC/MD	Ok
8	Q1731-01	RMW-01B-82-040325	VX045620.D	07 Apr 2025 11:46	vial A pH<2	JC/MD	Ok,M
9	Q1731-02	RMW-04B-91-040325	VX045621.D	07 Apr 2025 12:09	vial A pH<2	JC/MD	Ok
10	Q1731-03	RMW-01B-82-040325-F	VX045622.D	07 Apr 2025 12:33	vial A pH<2	JC/MD	Ok
11	Q1741-03	FB01-040425	VX045623.D	07 Apr 2025 12:56	vial A pH<2,FB	JC/MD	Ok
12	Q1741-04	TB01-040425	VX045624.D	07 Apr 2025 13:19	vial A pH<2,TB	JC/MD	Ok
13	Q1741-01	RMW-02B-66-040425	VX045625.D	07 Apr 2025 13:43	run 50x	JC/MD	Not Ok
14	Q1741-02	RMW-06B-74-040425	VX045626.D	07 Apr 2025 14:06	Need Straight Run	JC/MD	Not Ok
15	IBLK	IBLK	VX045627.D	07 Apr 2025 14:35		JC/MD	Ok
16	Q1741-02	RMW-06B-74-040425	VX045628.D	07 Apr 2025 14:58	vial A pH<2	JC/MD	Ok
17	Q1746-08	TB-2025-4-7	VX045629.D	07 Apr 2025 15:21	vial A pH<2 TB	JC/MD	Ok
18	Q1746-07	EB-2025-4-7	VX045630.D	07 Apr 2025 15:45	vial A pH<2 EB,Hit of com.#16	JC/MD	ReRun

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040725

Review By	John Carlone	Review On	4/8/2025 10:03:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/8/2025 2:05:33 PM		
SubDirectory	VX040725	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133600
Initial Calibration Stds	
CCC	VP133601,VP133602
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1746-05	B-158-GW01	VX045631.D	07 Apr 2025 16:08	vial A pH<2	JC/MD	Ok
20	Q1746-06	B-149-GW01	VX045632.D	07 Apr 2025 16:31	vial A pH<2	JC/MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VX045633.D	07 Apr 2025 16:55		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045634.D	08 Apr 2025 07:49		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	pH#Lot#V12668	JC/MD	Ok,M
3	VX0408MBL01	VX0408MBL01	VX045636.D	08 Apr 2025 08:49		JC/MD	Ok
4	VX0408WBL01	VX0408BWL01	VX045637.D	08 Apr 2025 09:12		JC/MD	Ok
5	VX0408WBS01	VX0408WBS01	VX045638.D	08 Apr 2025 09:43		JC/MD	Ok,M
6	VX0408WBSD01	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08		JC/MD	Ok,M
7	Q1741-01	RMW-02B-66-040425	VX045640.D	08 Apr 2025 10:32	vial A pH<2	JC/MD	Ok
8	Q1746-07	EB-2025-4-7	VX045641.D	08 Apr 2025 10:55	vial B pH<2 EB	JC/MD	Ok
9	Q1702-03	60442	VX045642.D	08 Apr 2025 11:18	vial A pH<2 Foamy sample	JC/MD	Ok
10	PB167492ZHE01	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41		JC/MD	Ok
11	PB167492ZHE02	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05		JC/MD	Ok
12	Q1737-02	RT3069	VX045645.D	08 Apr 2025 12:28	vial A pH#5.0	JC/MD	Ok
13	PB167492ZHE04	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51		JC/MD	Ok
14	PB167492ZHE05	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14		JC/MD	Ok
15	PB167492ZHE06	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38		JC/MD	Ok
16	PB167492ZHE07	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01		JC/MD	Ok
17	PB167492ZHE08	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24		JC/MD	Ok
18	PB167492ZHE09	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47		JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167492ZHE10	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11		JC/MD	Ok
20	PB167492ZHE11	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34		JC/MD	Ok
21	PB167492ZHE03	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58		JC/MD	Ok
22	Q1745-04	IB-6A-WC	VX045655.D	08 Apr 2025 16:21	vial A pH#5.0	JC/MD	Ok
23	Q1732-04	TT-8	VX045656.D	08 Apr 2025 16:44	vial A pH#5.0	JC/MD	Ok
24	Q1740-04	TP-20	VX045657.D	08 Apr 2025 17:07	vial A pH#5.0	JC/MD	Ok
25	Q1745-12	IB-6.5-WC	VX045658.D	08 Apr 2025 17:31	vial A pH#5.0	JC/MD	Ok
26	Q1743-04	TP-16	VX045659.D	08 Apr 2025 17:54	vial A pH#5.0	JC/MD	Ok
27	Q1744-02	B-158-SB01	VX045660.D	08 Apr 2025 18:17	vial A pH#5.0	JC/MD	Ok
28	Q1744-04	B-158-SB02	VX045661.D	08 Apr 2025 18:40	vial A pH#5.0	JC/MD	Ok
29	VSTDCCC050	VSTDCCC050EC	VX045662.D	08 Apr 2025 19:04		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021655.D	27 Mar 2025 09:23		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021656.D	27 Mar 2025 10:08		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021657.D	27 Mar 2025 10:31		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021658.D	27 Mar 2025 10:54	Comp.#20 is on Linear Regression	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021659.D	27 Mar 2025 11:16		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021660.D	27 Mar 2025 11:39		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021661.D	27 Mar 2025 12:02		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021662.D	27 Mar 2025 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY032725	VY021663.D	27 Mar 2025 13:15		SY/MD	Ok,M
10	VY0327SBL01	VY0327SBL01	VY021664.D	27 Mar 2025 13:59		SY/MD	Ok
11	VY0327SBS01	VY0327SBS01	VY021665.D	27 Mar 2025 14:38		SY/MD	Ok,M
12	VY0327SBSD01	VY0327SBSD01	VY021666.D	27 Mar 2025 15:00		SY/MD	Ok,M
13	Q1661-02	351	VY021667.D	27 Mar 2025 15:24	vial-B Not purge	SY/MD	Not Ok
14	Q1645-03RE	TP-4-VOCRE	VY021668.D	27 Mar 2025 15:48	vial-B Internal Standard Fail	SY/MD	Confirms
15	Q1662-03	TP-6-VOC	VY021669.D	27 Mar 2025 16:11	vial-A NOT PURGE	SY/MD	Not Ok
16	Q1662-07	TP-7-VOC	VY021670.D	27 Mar 2025 16:35	vial-A Internal Standard Fail	SY/MD	ReRun
17	Q1661-02	351	VY021671.D	27 Mar 2025 16:58	vial-A NOT PURGE	SY/MD	Not Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1650-02	STOCK-PILE-BIN2	VY021672.D	27 Mar 2025 17:21	vial-A NOT PURGE	SY/MD	Not Ok
19	Q1654-01	RT3407	VY021673.D	27 Mar 2025 17:45	vial-A Internal Standard Fail	SY/MD	Ok
20	Q1656-01	VNJ239	VY021674.D	27 Mar 2025 18:08	vial-A NOT PURGE	SY/MD	Not Ok
21	Q1648-09	TP-7	VY021675.D	27 Mar 2025 18:32	vial-A	SY/MD	Ok
22	Q1648-07	TP-6	VY021676.D	27 Mar 2025 18:55	vial-A	SY/MD	Ok
23	Q1648-05	TP-3	VY021677.D	27 Mar 2025 19:19	vial-A	SY/MD	Ok
24	Q1648-01	TP-4	VY021678.D	27 Mar 2025 19:42	vial-A	SY/MD	Ok
25	Q1648-03	TP-5	VY021679.D	27 Mar 2025 20:05	vial-A	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY021680.D	27 Mar 2025 20:28		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021825.D	10 Apr 2025 08:34		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021826.D	10 Apr 2025 09:51		SY/MD	Ok,M
3	VY0410SBL01	VY0410SBL01	VY021827.D	10 Apr 2025 10:28		SY/MD	Ok
4	VY0410SBS01	VY0410SBS01	VY021828.D	10 Apr 2025 10:59		SY/MD	Ok,M
5	VY0410SBSD01	VY0410SBSD01	VY021829.D	10 Apr 2025 11:22		SY/MD	Ok,M
6	Q1747-01RE	ARS20-0008RE	VY021830.D	10 Apr 2025 12:06	vial-B not purged	SY/MD	Not Ok
7	Q1754-01RE	TP-1RE	VY021831.D	10 Apr 2025 12:29	vial-B Internal standard fail;Not match for com.#64	SY/MD	Not Ok
8	Q1732-03	TT-8-VOC	VY021832.D	10 Apr 2025 12:53	vial-A	SY/MD	Ok
9	Q1746-01	B-149-SB01	VY021833.D	10 Apr 2025 13:16	vial-A	SY/MD	Ok
10	Q1746-03	B-149-SB02	VY021834.D	10 Apr 2025 13:40	vial-A	SY/MD	Ok
11	Q1744-01	B-158-SB01	VY021835.D	10 Apr 2025 14:03	vial-A	SY/MD	Ok
12	Q1744-03	B-158-SB02	VY021836.D	10 Apr 2025 14:26	vial-A	SY/MD	Ok
13	Q1738-01RE	OK-02-040425RE	VY021837.D	10 Apr 2025 14:50	vial-B Internal Standard Fail	SY/MD	Confirms
14	Q1749-03	TP-14-VOC	VY021838.D	10 Apr 2025 15:13	vial-A	SY/MD	Ok
15	Q1743-03	TP-16-VOC	VY021839.D	10 Apr 2025 15:37	vial-A	SY/MD	Ok
16	Q1752-01	TP-1	VY021840.D	10 Apr 2025 16:00	vial-A	SY/MD	Ok
17	Q1752-03	TP-2	VY021841.D	10 Apr 2025 16:24	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1752-05	TP-4	VY021842.D	10 Apr 2025 16:47	vial-A	SY/MD	Ok
19	Q1752-07	TP-3	VY021843.D	10 Apr 2025 17:10	vial-A	SY/MD	Ok
20	Q1771-03	TP-6C-VOC	VY021844.D	10 Apr 2025 17:34	vial-A	SY/MD	Ok
21	Q1771-07	TP-7C-VOC	VY021845.D	10 Apr 2025 17:57	vial-A	SY/MD	Ok
22	Q1771-11	TP-3A-VOC	VY021846.D	10 Apr 2025 18:21	vial-A	SY/MD	Ok
23	Q1760-03	TP-17-VOC	VY021847.D	10 Apr 2025 18:44	vial-A	SY/MD	Ok
24	Q1760-07	TP-15-VOC	VY021848.D	10 Apr 2025 19:08	vial-A Internal Standard Fail; Surrogate Fail;Need MeoH	SY/MD	Dilution

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			VOC-TCLVOA-10	8260D			04/10/25	
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP VOA	8260D			04/09/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			VOC-TCLVOA-10	8260D			04/10/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP VOA	8260D			04/09/25	
Q1746-05	**B-158-GW01**	**Water**			**04/05/25**			**04/07/25**
			VOC-TCLVOA-10	8260-Low			04/07/25	
Q1746-06	**B-149-GW01**	**Water**			**04/06/25**			**04/07/25**
			VOC-TCLVOA-10	8260-Low			04/07/25	
Q1746-07	**EB-2025-4-7**	**Water**			**04/07/25**			**04/07/25**
			VOC-TCLVOA-10	8260-Low			04/08/25	
Q1746-08	**TB-2025-4-7**	**Water**			**04/07/25**			**04/07/25**
			VOC-TCLVOA-10	8260-Low			04/07/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**B-149-SB01**							
Q1746-02	B-149-SB01	TCLP	2-Butanone	5.00	J	0.98	25.0	ug/L
			Total Voc :	5.00				
			Total Concentration:	5.00				
Client ID:	**B-149-SB02**							
Q1746-04	B-149-SB02	TCLP	2-Butanone	12.3	J	0.98	25.0	ug/L
			Total Voc :	12.3				
			Total Concentration:	12.3				

SAMPLE DATA

Raw Data: **VX045678.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-02	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045678.D	1		04/09/25 16:06	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	5.00	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.8		70 (74) - 130 (125)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64800	5.544			
540-36-3	1,4-Difluorobenzene	131000	6.757			
3114-55-4	Chlorobenzene-d5	125000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	52800	12.018			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045679.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-04	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045679.D	1		04/09/25 16:29	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	12.3	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.1		70 (74) - 130 (125)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	52.0		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.5		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66400	5.55			
540-36-3	1,4-Difluorobenzene	132000	6.757			
3114-55-4	Chlorobenzene-d5	127000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	54300	12.018			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1746-02	B-149-SB01	1,2-Dichloroethane-d4	50	57.8	116	70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105	70 (75)	130 (124)
		Toluene-d8	50	52.1	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.6	107	70 (77)	130 (121)
Q1746-04	B-149-SB02	1,2-Dichloroethane-d4	50	56.1	112	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	52.0	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.5	107	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX0409WBL01	VX0409WBL01	1,2-Dichloroethane-d4	50	53.5	107	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100	70 (77)	130 (121)
VX0409WBS01	VX0409WBS01	1,2-Dichloroethane-d4	50	53.5	107	70 (74)	130 (125)
		Dibromofluoromethane	50	54.5	109	70 (75)	130 (124)
		Toluene-d8	50	53.1	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.6	105	70 (77)	130 (121)
VX0409WBSD0	VX0409WBSD01	1,2-Dichloroethane-d4	50	54.1	108	70 (74)	130 (125)
		Dibromofluoromethane	50	53.8	108	70 (75)	130 (124)
		Toluene-d8	50	53.1	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.3	109	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045667.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0409WBS01	Vinyl chloride	20	18.5	ug/L	93			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.4	ug/L	92			70 (74)	130 (110)	
	2-Butanone	100	94.6	ug/L	95			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.1	ug/L	101			70 (77)	130 (113)	
	Chloroform	20	19.3	ug/L	97			70 (79)	130 (113)	
	Benzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.4	ug/L	102			70 (80)	130 (115)	
	Trichloroethene	20	19.2	ug/L	96			70 (77)	130 (113)	
	Tetrachloroethene	20	20.9	ug/L	104			70 (67)	130 (123)	
	Chlorobenzene	20	20.3	ug/L	102			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045668.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0409WBSD01	Vinyl chloride	20	18.9	ug/L	95	2		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	19.2	ug/L	96	4		70 (74)	130 (110)	20 (20)
	2-Butanone	100	100	ug/L	100	5		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.2	ug/L	106	5		70 (77)	130 (113)	20 (20)
	Chloroform	20	20.8	ug/L	104	7		70 (79)	130 (113)	20 (20)
	Benzene	20	20.4	ug/L	102	5		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.5	ug/L	108	6		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.4	ug/L	102	6		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	22.0	ug/L	110	6		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.9	ug/L	104	2		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0409WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045666.D Lab Sample ID: VX0409WBL01

Date Analyzed: 04/09/2025 Time Analyzed: 11:26

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0409WBS01	VX0409WBS01	VX045667.D	04/09/2025
VX0409WBSD01	VX0409WBSD01	VX045668.D	04/09/2025
B-149-SB01	Q1746-02	VX045678.D	04/09/2025
B-149-SB02	Q1746-04	VX045679.D	04/09/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045524.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_X BFB Injection Time: 16:15

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045663.D BFB Injection Date: 04/09/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:38

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	59.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	67.4
175	5.0 - 9.0% of mass 174	5.1 (7.5) 1
176	95.0 - 101.0% of mass 174	66.1 (98) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045664.D	04/09/2025	10:35
VX0409WBL01	VX0409WBL01	VX045666.D	04/09/2025	11:26
VX0409WBS01	VX0409WBS01	VX045667.D	04/09/2025	11:49
VX0409WBSD01	VX0409WBSD01	VX045668.D	04/09/2025	12:14
B-149-SB01	Q1746-02	VX045678.D	04/09/2025	16:06
B-149-SB02	Q1746-04	VX045679.D	04/09/2025	16:29

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045664.D Date Analyzed: 04/09/2025

Instrument ID: MSVOA_X Time Analyzed: 10:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	98594	5.54	170453	6.75	147839	10.05
UPPER LIMIT	197188	6.044	340906	7.251	295678	10.549
LOWER LIMIT	49297	5.044	85226.5	6.251	73919.5	9.549
EPA SAMPLE NO.						
B-149-SB01	64791	5.54	130620	6.76	124927	10.05
B-149-SB02	66411	5.55	132306	6.76	127098	10.05
VX0409WBL01	69921	5.54	138334	6.76	127856	10.05
VX0409WBS01	94074	5.54	163361	6.76	141398	10.05
VX0409WBSD01	83922	5.54	147335	6.76	129399	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: VX045664.D Date Analyzed: 04/09/2025

Instrument ID: MSVOA_X Time Analyzed: 10:35

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	71972	12.018				
UPPER LIMIT	143944	12.518				
LOWER LIMIT	35986	11.518				
EPA SAMPLE NO.						
B-149-SB01	52795	12.02				
B-149-SB02	54289	12.02				
VX0409WBL01	50474	12.02				
VX0409WBS01	64175	12.02				
VX0409WBSD01	60456	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Raw Data: **VX045666.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0409WBL01	SDG No.:	Q1746
Lab Sample ID:	VX0409WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045666.D	1		04/09/25 11:26	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	69900	5.544			
540-36-3	1,4-Difluorobenzene	138000	6.757			
3114-55-4	Chlorobenzene-d5	128000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	50500	12.018			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045667.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0409WBS01	SDG No.:	Q1746
Lab Sample ID:	VX0409WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045667.D	1		04/09/25 11:49	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.5		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.23	1.00	ug/L
78-93-3	2-Butanone	94.6		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
67-66-3	Chloroform	19.3		0.25	1.00	ug/L
71-43-2	Benzene	19.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	20.9		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	53.1		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	94100	5.544			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	141000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	64200	12.018			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **VX045668.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0409WBSD01	SDG No.:	Q1746
Lab Sample ID:	VX0409WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045668.D	1		04/09/25 12:14	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.9		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.2		0.25	1.00	ug/L
67-66-3	Chloroform	20.8		0.25	1.00	ug/L
71-43-2	Benzene	20.4		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.4		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	22.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.9		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	53.1		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	83900	5.544			
540-36-3	1,4-Difluorobenzene	147000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	60500	12.018			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: MSVOA_X Calibration Date/Time: 04/09/2025 10:35

Lab File ID: VX045664.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.690		-1.85	20
1,1-Dichloroethene	0.600	0.586		-2.33	20
2-Butanone	0.550	0.538		-2.18	20
Carbon Tetrachloride	0.518	0.553		6.76	20
Chloroform	1.306	1.317		0.84	20
Benzene	1.463	1.461		-0.14	20
1,2-Dichloroethane	0.604	0.626		3.64	20
Trichloroethene	0.348	0.351		0.86	20
Tetrachloroethene	0.353	0.373		5.67	20
Chlorobenzene	1.068	1.118	0.3	4.68	20
1,2-Dichloroethane-d4	0.914	0.945		3.39	20
Dibromofluoromethane	0.355	0.379		6.76	20
Toluene-d8	1.238	1.272		2.75	20
4-Bromofluorobenzene	0.451	0.501		11.09	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045678.D
Acq On : 09 Apr 2025 16:06
Operator : JC/MD
Sample : Q1746-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Quant Time: Apr 10 01:36:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

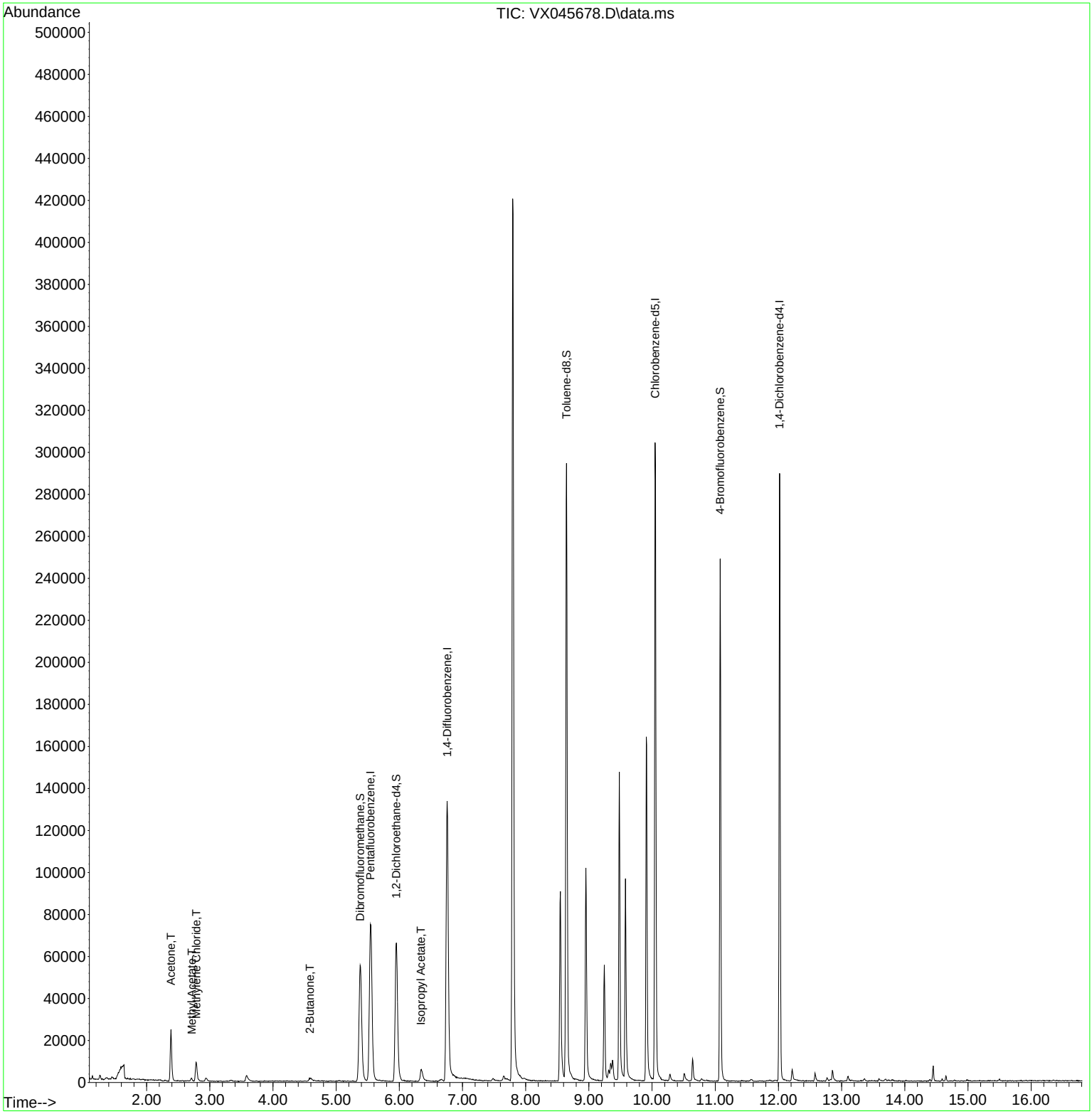
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	64791	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130620	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	124927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	52795	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68461	57.780	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.560%			
35) Dibromofluoromethane	5.379	113	48432	52.260	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.520%			
50) Toluene-d8	8.647	98	168400	52.060	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.120%			
62) 4-Bromofluorobenzene	11.079	95	63131	53.580	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.160%			
Target Compounds						Qvalue
16) Acetone	2.386	43	25809	53.046	ug/l	96
18) Methyl Acetate	2.715	43	1950	1.741	ug/l #	89
20) Methylene Chloride	2.788	84	4407	4.838	ug/l	90
25) 2-Butanone	4.586	43	3565	5.006	ug/l	99
43) Isopropyl Acetate	6.342	43	8737	3.656	ug/l	99

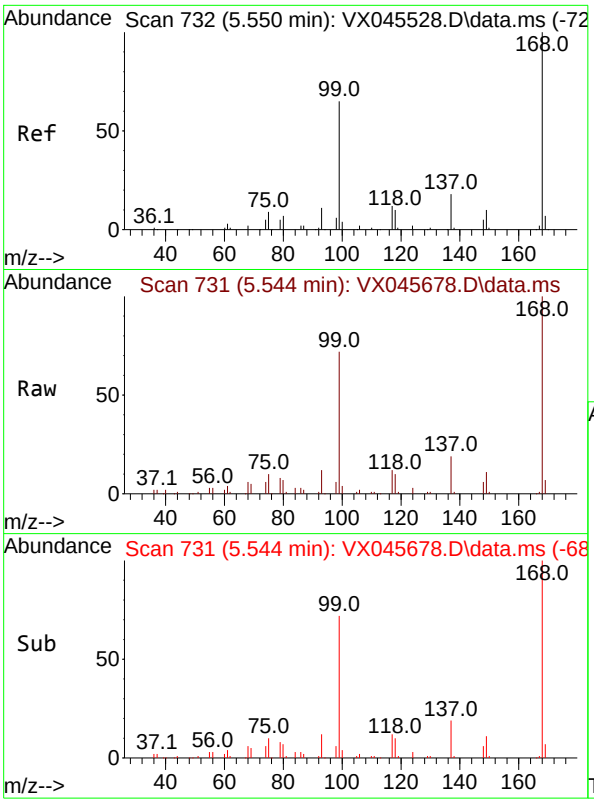
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045678.D
Acq On : 09 Apr 2025 16:06
Operator : JC/MD
Sample : Q1746-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Quant Time: Apr 10 01:36:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



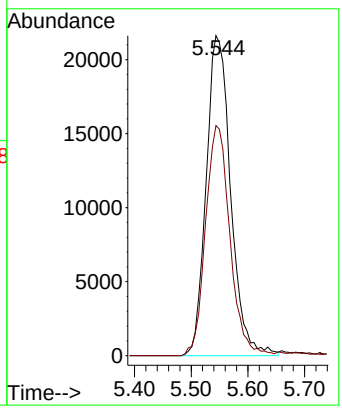


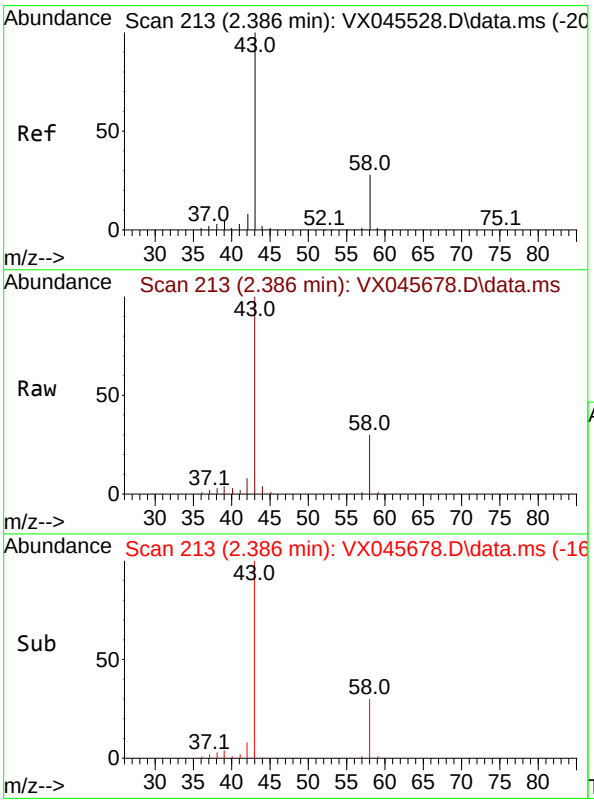
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Tgt Ion:168 Resp: 64791

Ion	Ratio	Lower	Upper
168	100		
99	71.9	52.3	78.5

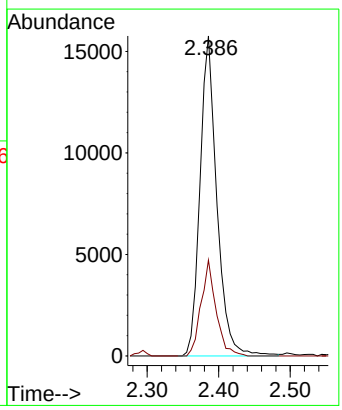


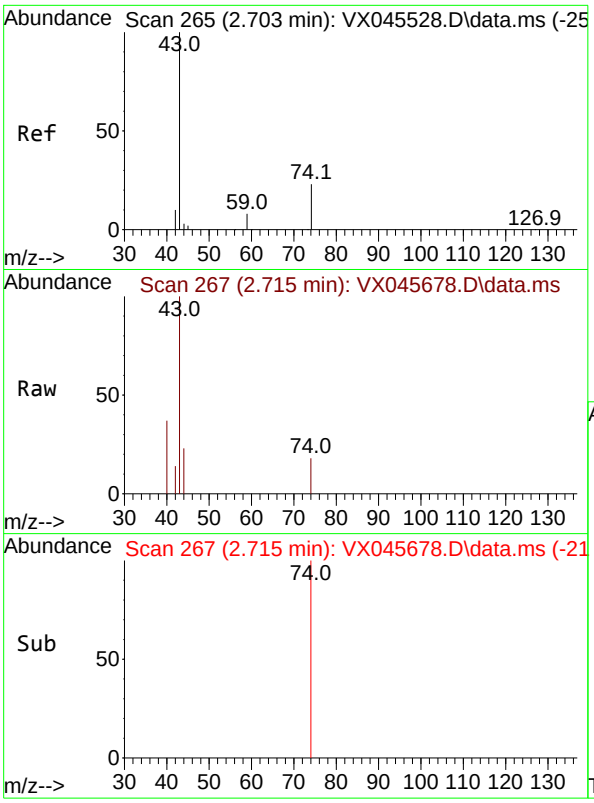


#16
Acetone
Concen: 53.046 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Tgt Ion: 43 Resp: 25809

Ion	Ratio	Lower	Upper
43	100		
58	29.9	22.3	33.5



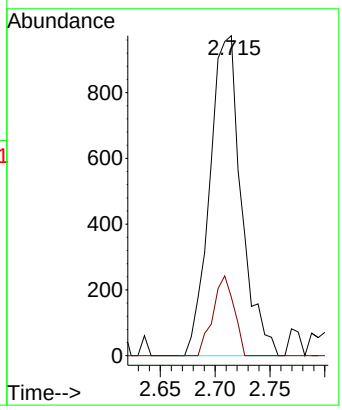


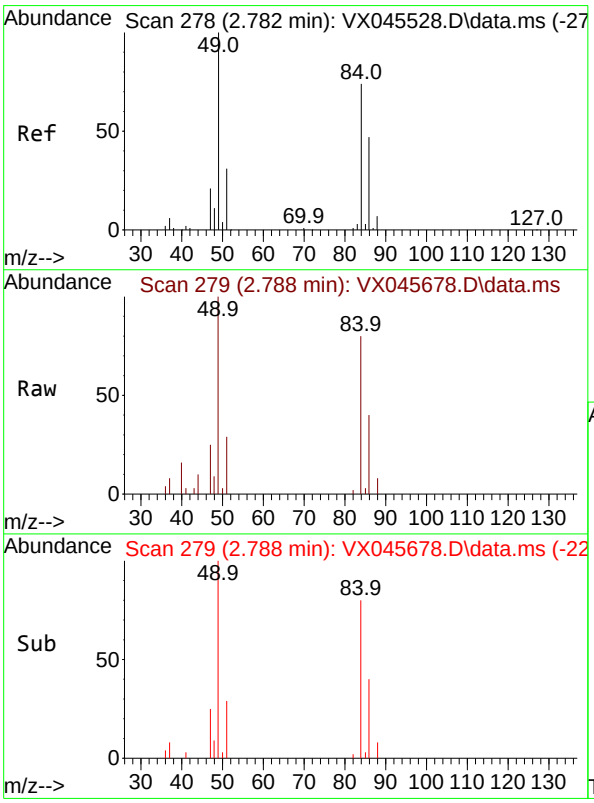
#18
Methyl Acetate
Concen: 1.741 ug/l
RT: 2.715 min Scan# 2
Delta R.T. 0.012 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Tgt Ion: 43 Resp: 1950

Ion	Ratio	Lower	Upper
43	100		
74	16.7	17.5	26.3#

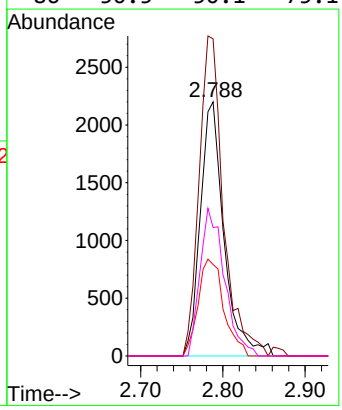


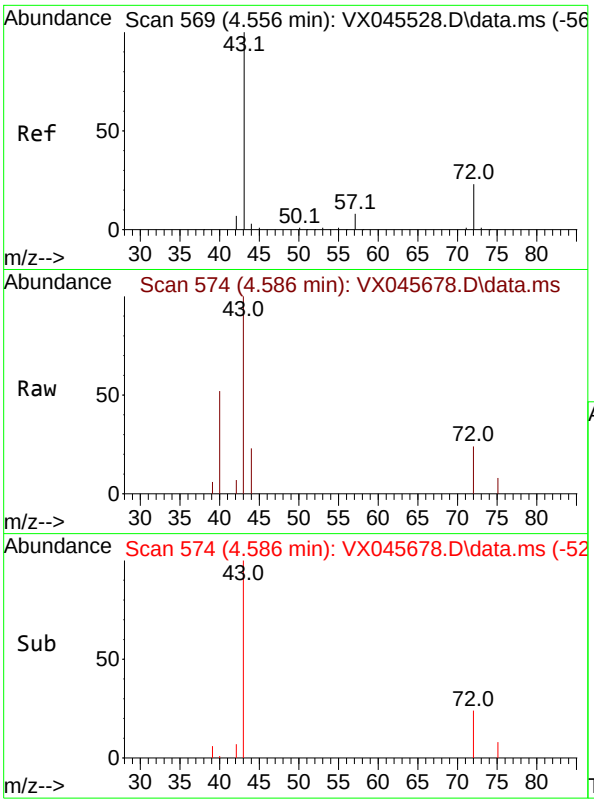


#20
Methylene Chloride
Concen: 4.838 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Tgt Ion: 84 Resp: 4407

Ion	Ratio	Lower	Upper
84	100		
49	124.8	107.5	161.3
51	36.0	33.0	49.6
86	50.5	50.1	75.1



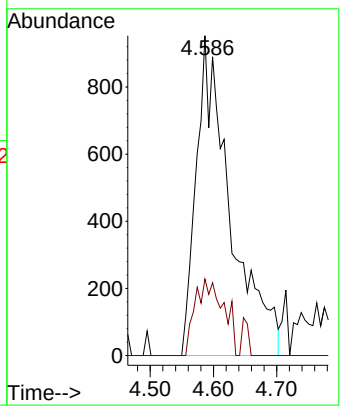


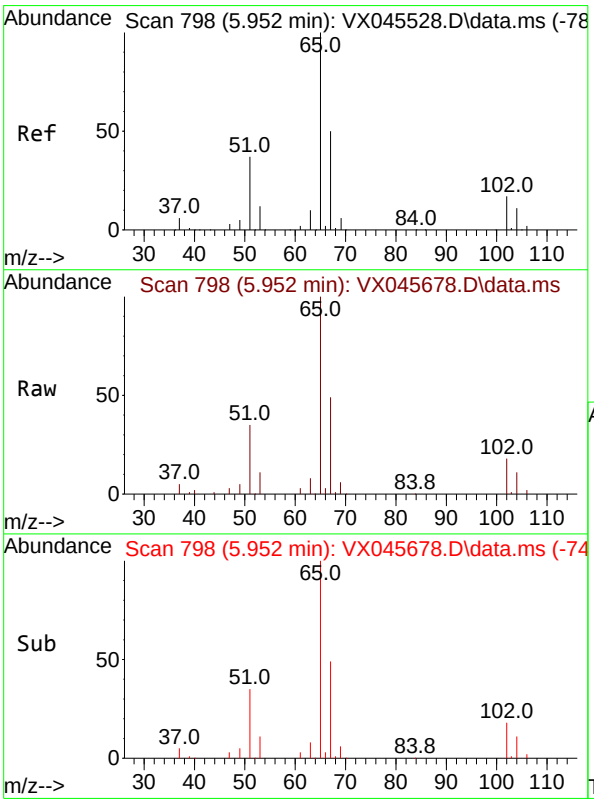
#25
2-Butanone
Concen: 5.006 ug/l
RT: 4.586 min Scan# 5
Delta R.T. 0.030 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Tgt Ion: 43 Resp: 3565

Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.6	28.0

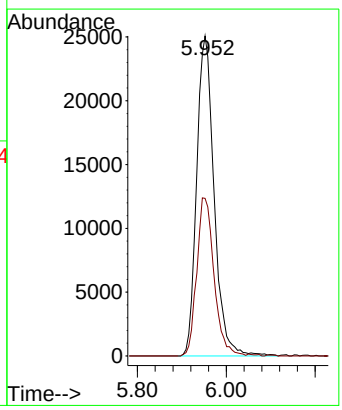


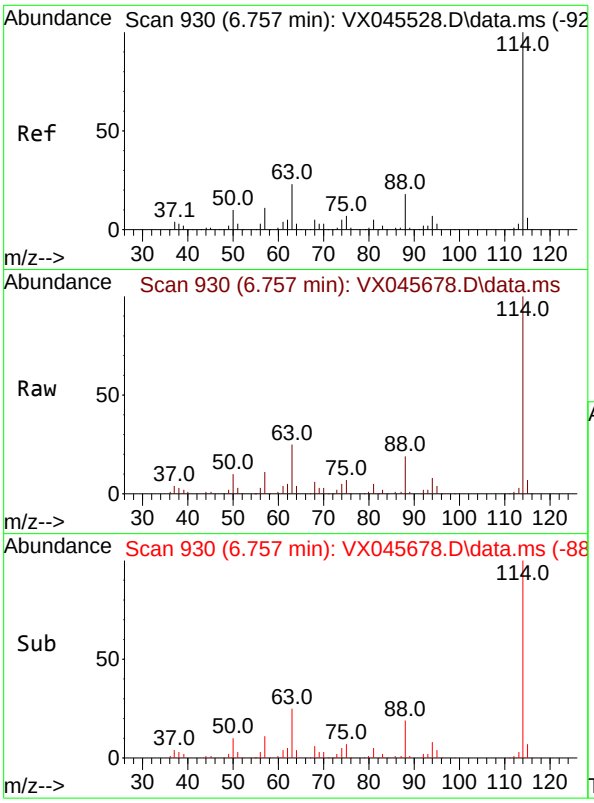


#33
1,2-Dichloroethane-d4
Concen: 57.780 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Tgt Ion: 65 Resp: 68461

Ion	Ratio	Lower	Upper
65	100		
67	49.0	0.0	99.0



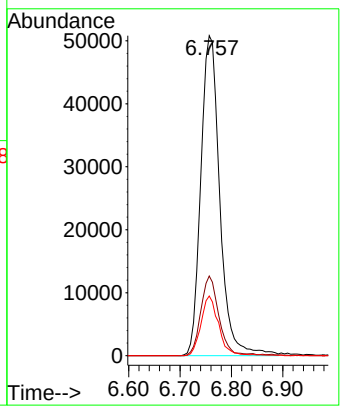


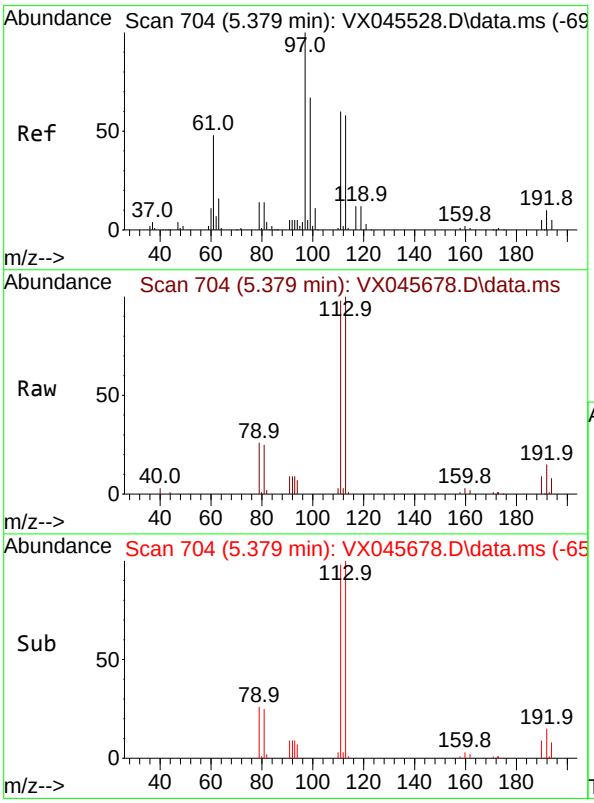
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Tgt Ion:114 Resp: 130620

Ion	Ratio	Lower	Upper
114	100		
63	24.9	0.0	46.8
88	18.6	0.0	35.4

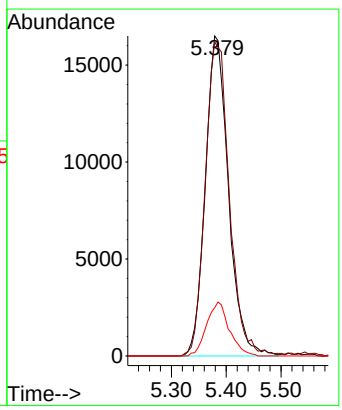


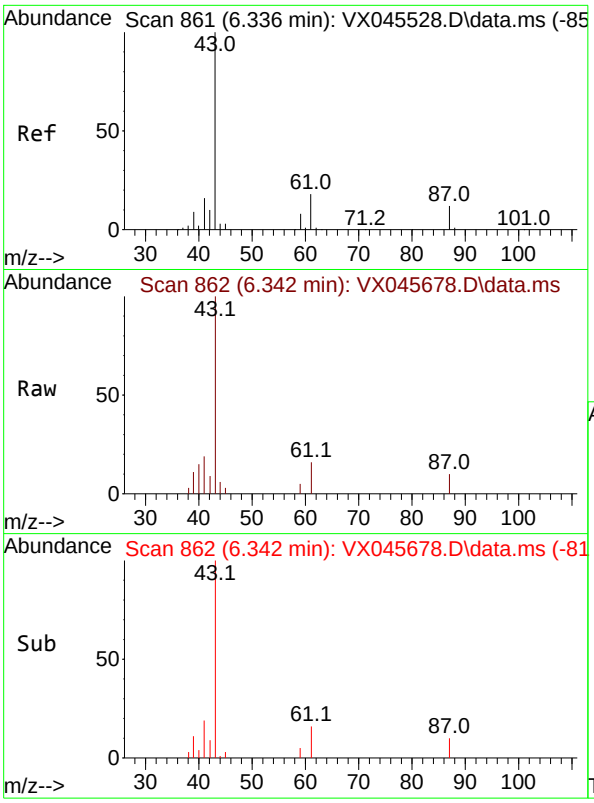


#35
Dibromofluoromethane
Concen: 52.260 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Tgt Ion:113 Resp: 48432

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	16.5	13.8	20.6



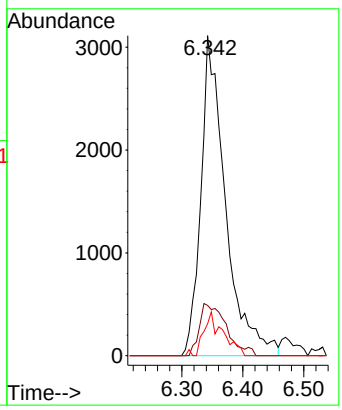


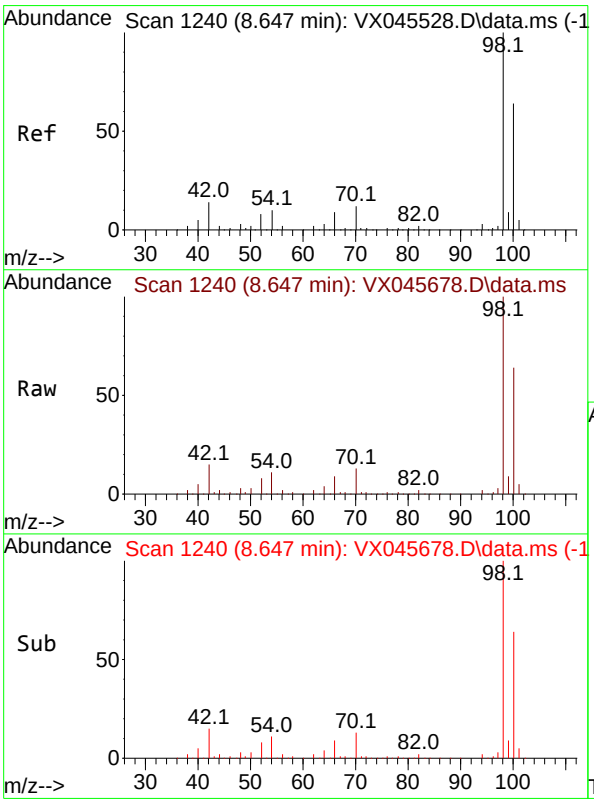
#43
Isopropyl Acetate
Concen: 3.656 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Tgt Ion: 43 Resp: 8737

Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.1	21.1
87	10.8	9.2	13.8

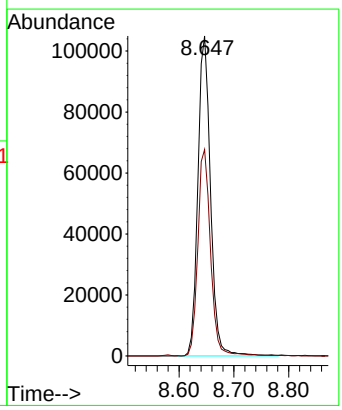


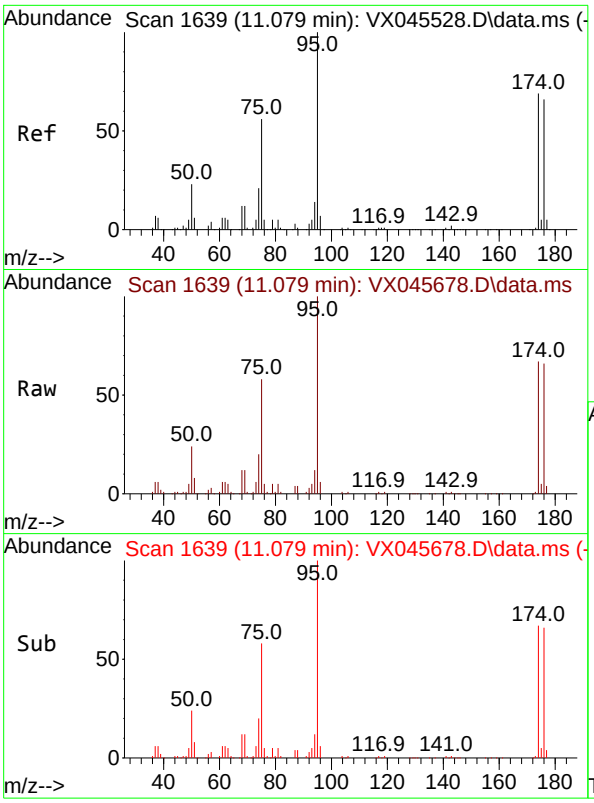


#50
Toluene-d8
Concen: 52.060 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Tgt Ion: 98 Resp: 168400

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.4



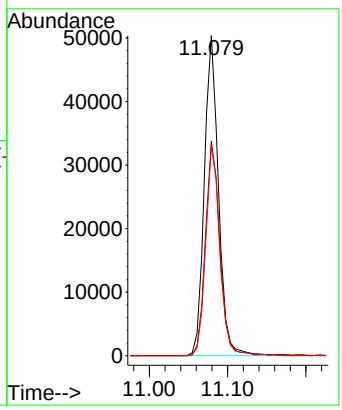


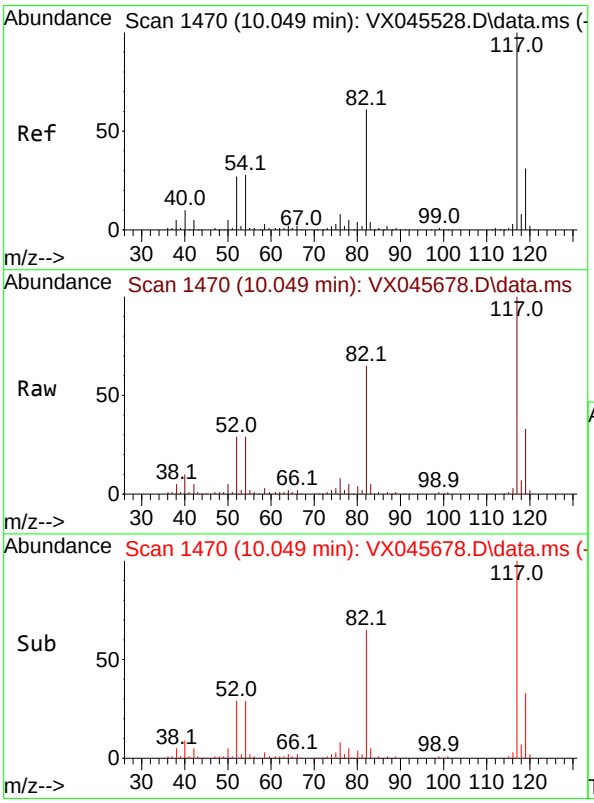
#62
4-Bromofluorobenzene
Concen: 53.580 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Tgt Ion: 95 Resp: 63131

Ion	Ratio	Lower	Upper
95	100		
174	68.1	0.0	135.8
176	64.8	0.0	131.4

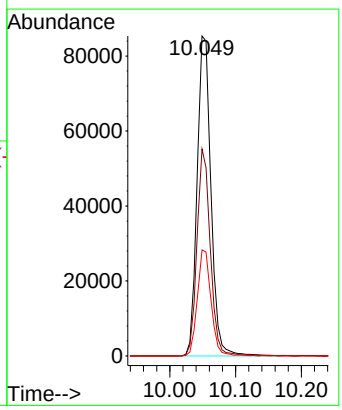


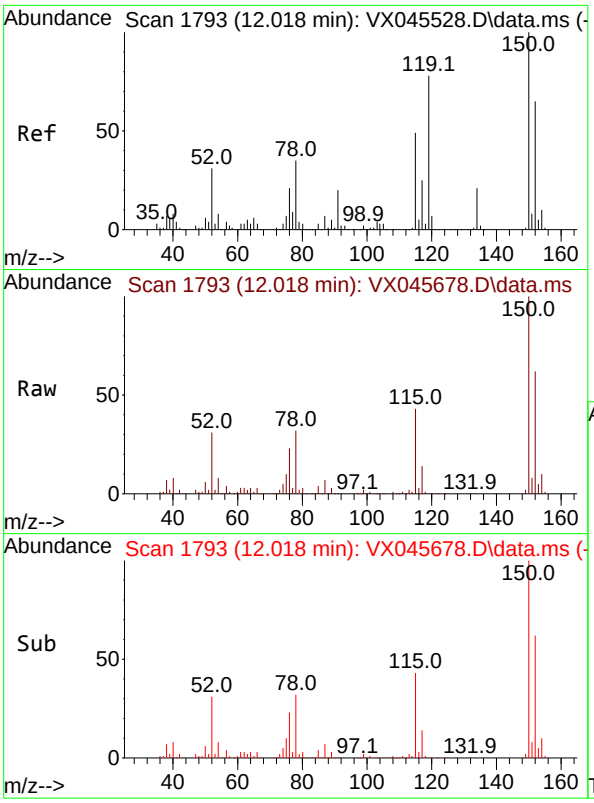


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Tgt Ion:117 Resp: 124927

Ion	Ratio	Lower	Upper
117	100		
82	64.6	49.2	73.8
119	33.2	25.1	37.7



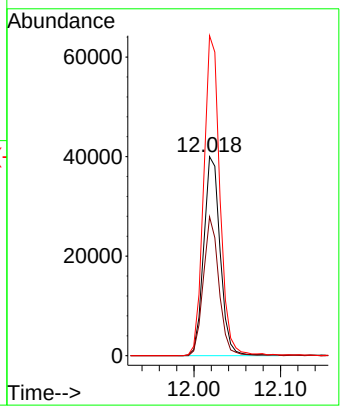


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045678.D
Acq: 09 Apr 2025 16:06

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB01

Tgt Ion:152 Resp: 52795

Ion	Ratio	Lower	Upper
152	100		
115	66.1	46.9	140.7
150	158.9	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045679.D
Acq On : 09 Apr 2025 16:29
Operator : JC/MD
Sample : Q1746-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Quant Time: Apr 10 01:36:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

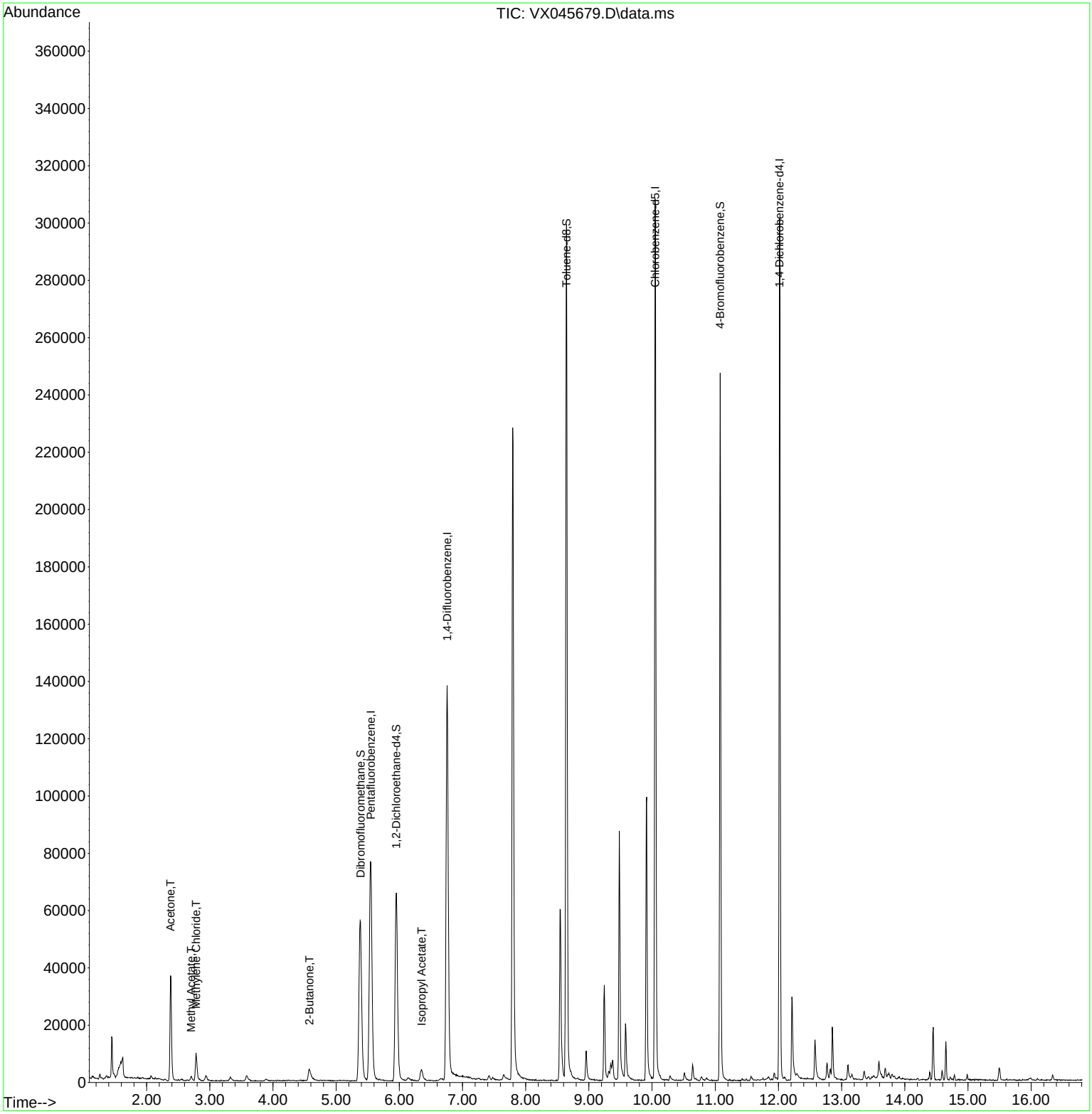
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	66411	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	132306	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	127098	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	54289	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68181	56.140	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.280%			
35) Dibromofluoromethane	5.385	113	48876	52.067	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.140%			
50) Toluene-d8	8.647	98	170273	51.968	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.940%			
62) 4-Bromofluorobenzene	11.079	95	63846	53.497	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.000%			
Target Compounds						Qvalue
16) Acetone	2.380	43	40298	80.806	ug/l	97
18) Methyl Acetate	2.703	43	1949	1.697	ug/l	93
20) Methylene Chloride	2.782	84	4301	4.607	ug/l #	90
25) 2-Butanone	4.574	43	8961	12.275	ug/l	100
43) Isopropyl Acetate	6.354	43	6357	2.626	ug/l	96

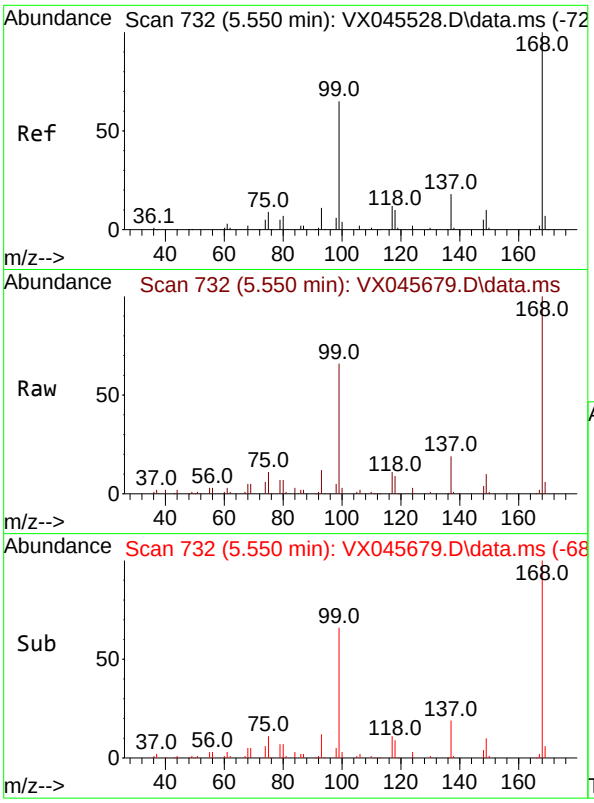
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045679.D
Acq On : 09 Apr 2025 16:29
Operator : JC/MD
Sample : Q1746-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Quant Time: Apr 10 01:36:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



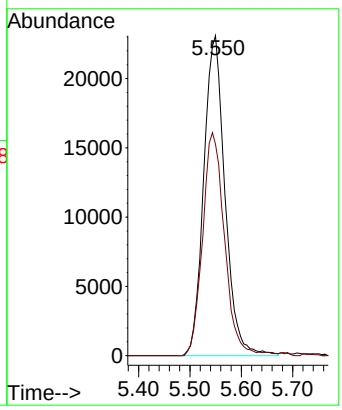


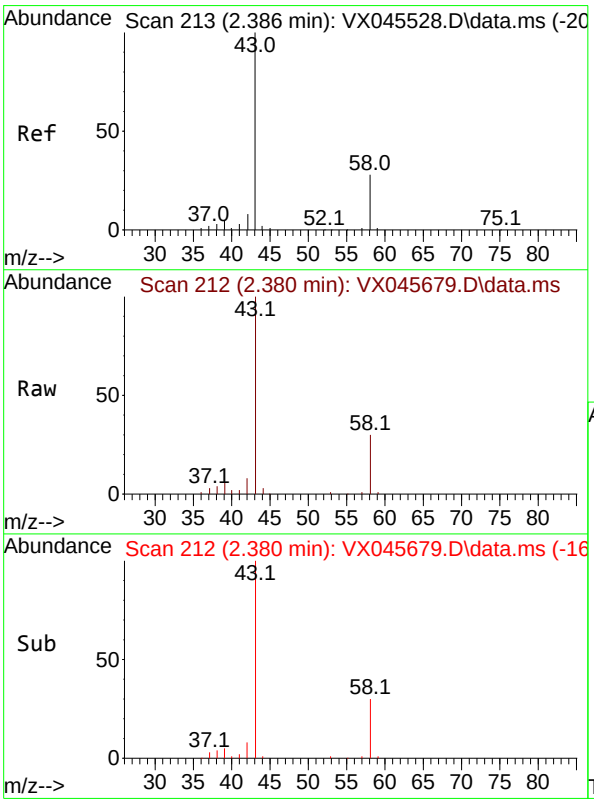
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Tgt Ion:168 Resp: 66411

Ion	Ratio	Lower	Upper
168	100		
99	66.1	52.3	78.5

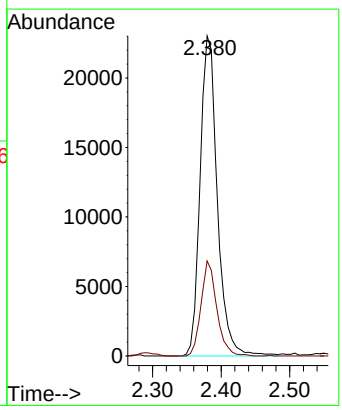


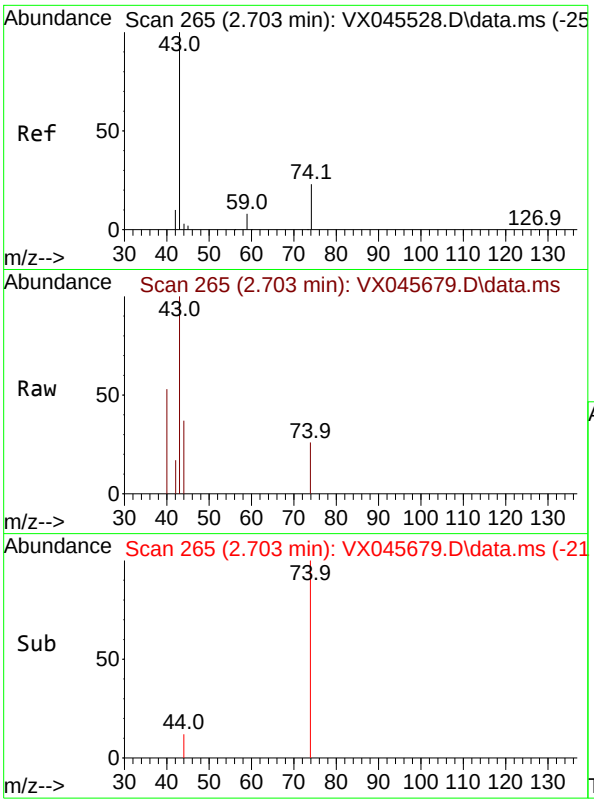


#16
Acetone
Concen: 80.806 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Tgt Ion: 43 Resp: 40298

Ion	Ratio	Lower	Upper
43	100		
58	29.7	22.3	33.5



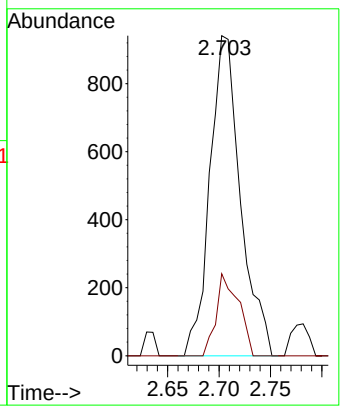


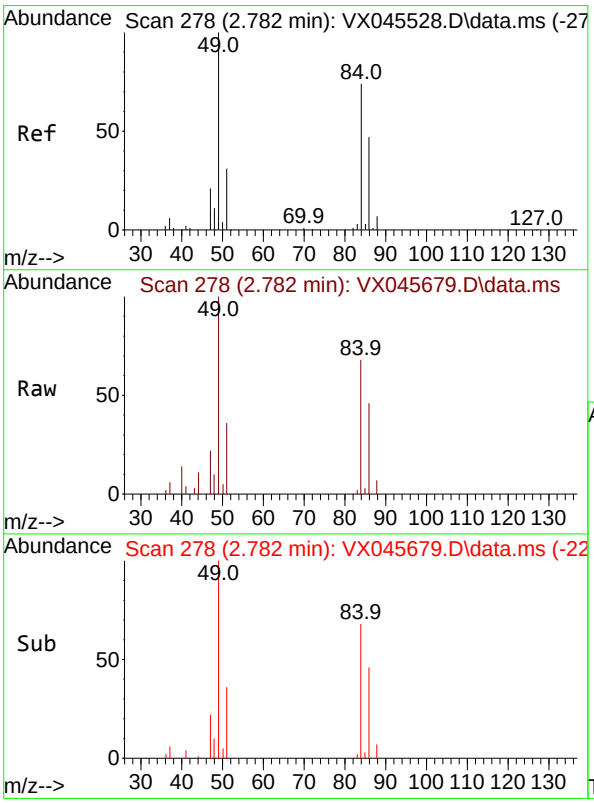
#18
Methyl Acetate
Concen: 1.697 ug/l
RT: 2.703 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Tgt Ion: 43 Resp: 1949

Ion	Ratio	Lower	Upper
43	100		
74	18.7	17.5	26.3

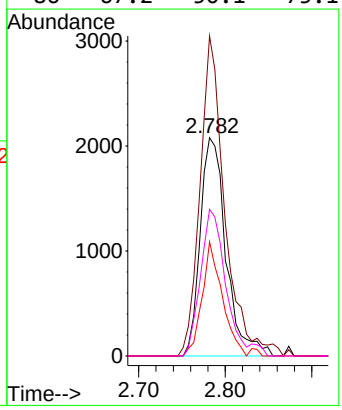


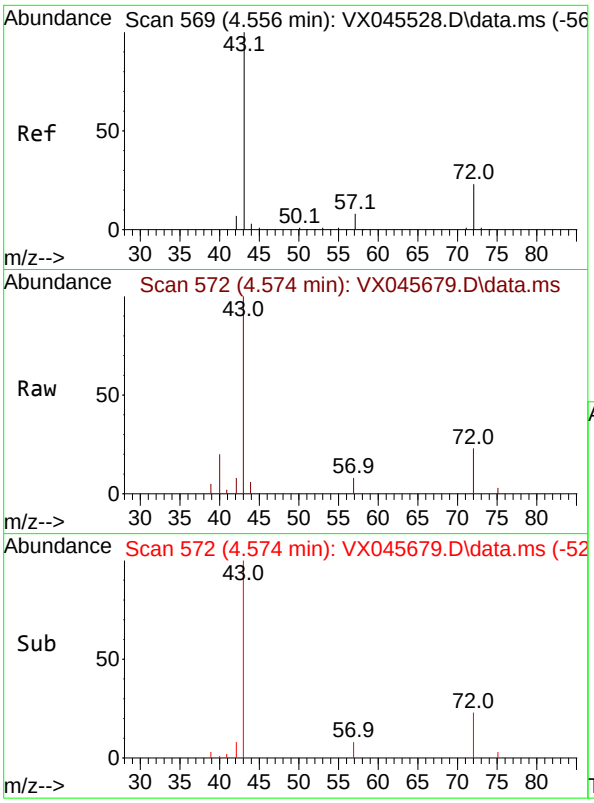


#20
Methylene Chloride
Concen: 4.607 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Tgt Ion: 84 Resp: 4301

Ion	Ratio	Lower	Upper
84	100		
49	146.6	107.5	161.3
51	52.3	33.0	49.6#
86	67.2	50.1	75.1



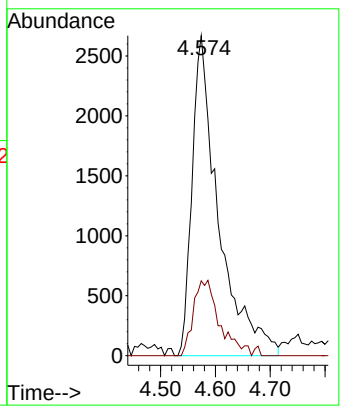


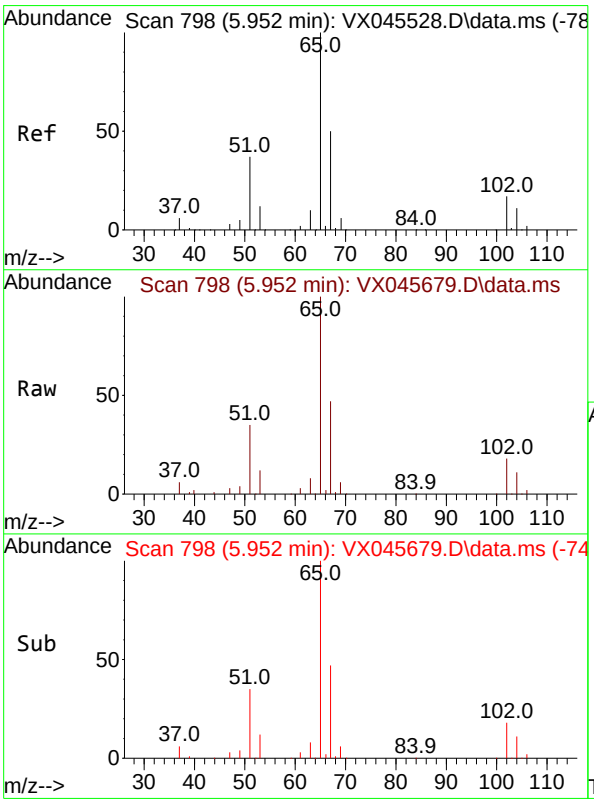
#25
2-Butanone
Concen: 12.275 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Tgt Ion: 43 Resp: 8961

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.6	28.0

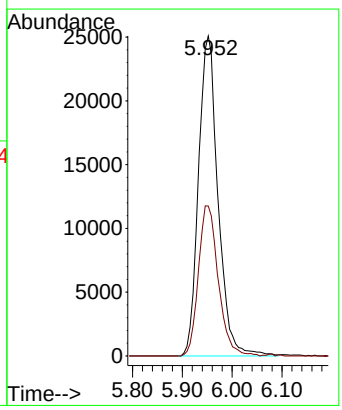


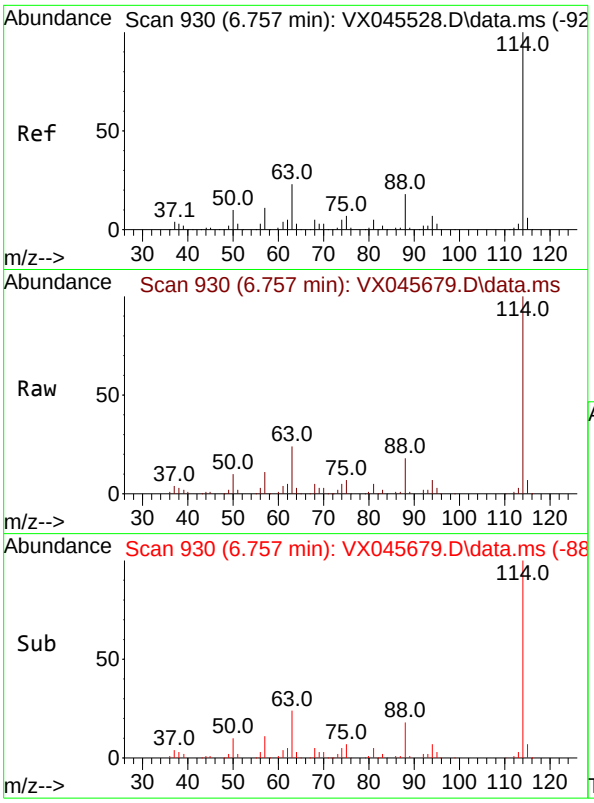


#33
1,2-Dichloroethane-d4
Concen: 56.140 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Tgt Ion: 65 Resp: 68181

Ion	Ratio	Lower	Upper
65	100		
67	47.8	0.0	99.0



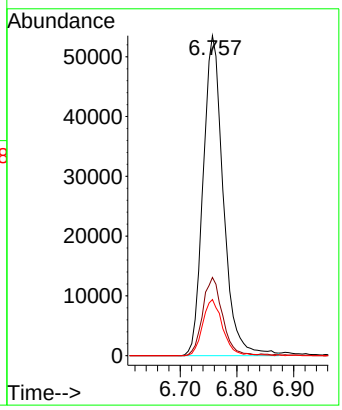


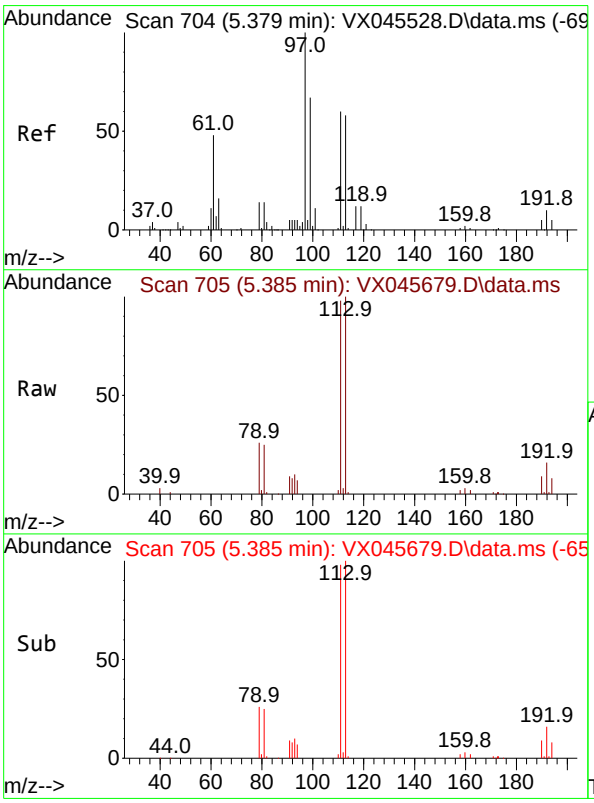
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Tgt Ion:114 Resp: 132306

Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	46.8
88	17.5	0.0	35.4

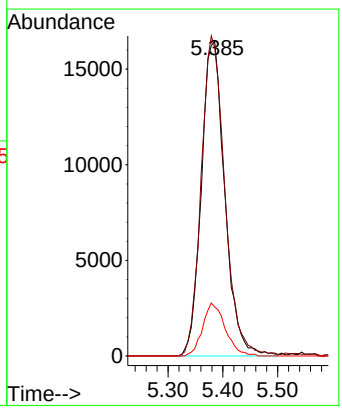


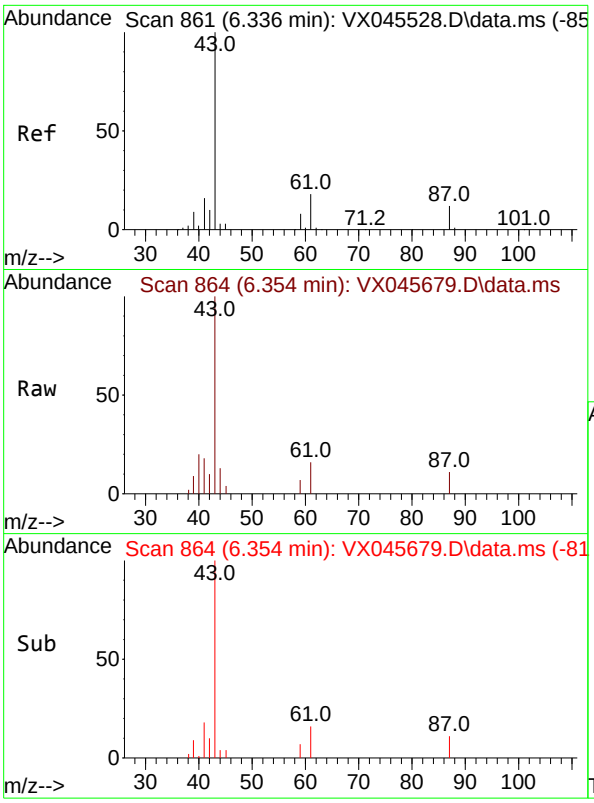


#35
Dibromofluoromethane
Concen: 52.067 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Tgt Ion:113 Resp: 48876

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	16.2	13.8	20.6



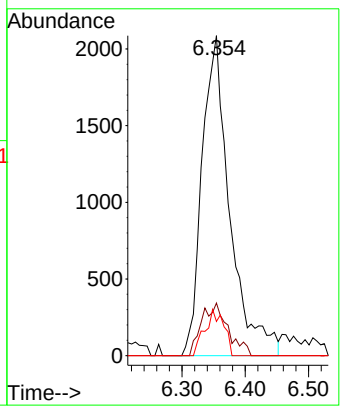


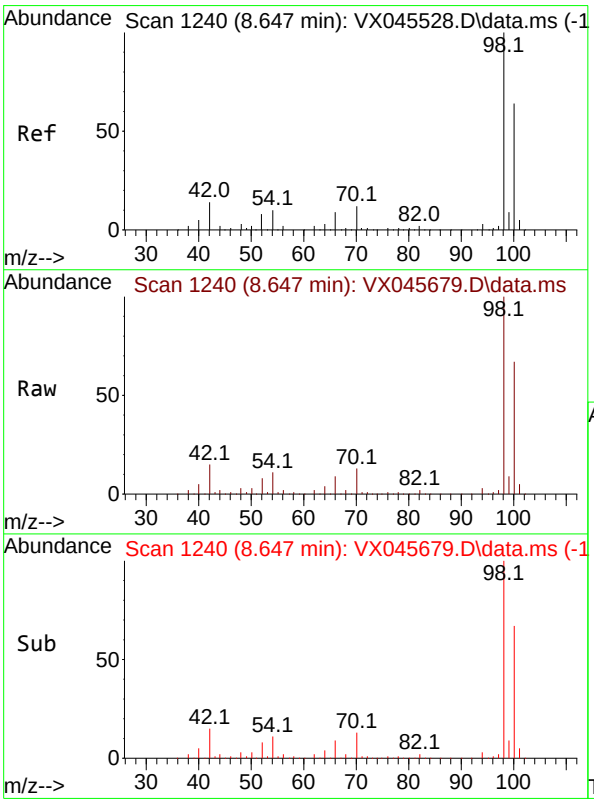
#43
Isopropyl Acetate
Concen: 2.626 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Tgt Ion: 43 Resp: 6357

Ion	Ratio	Lower	Upper
43	100		
61	15.6	14.1	21.1
87	9.9	9.2	13.8

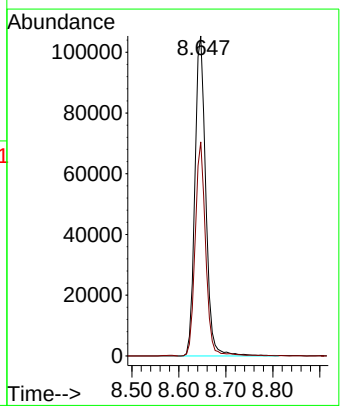


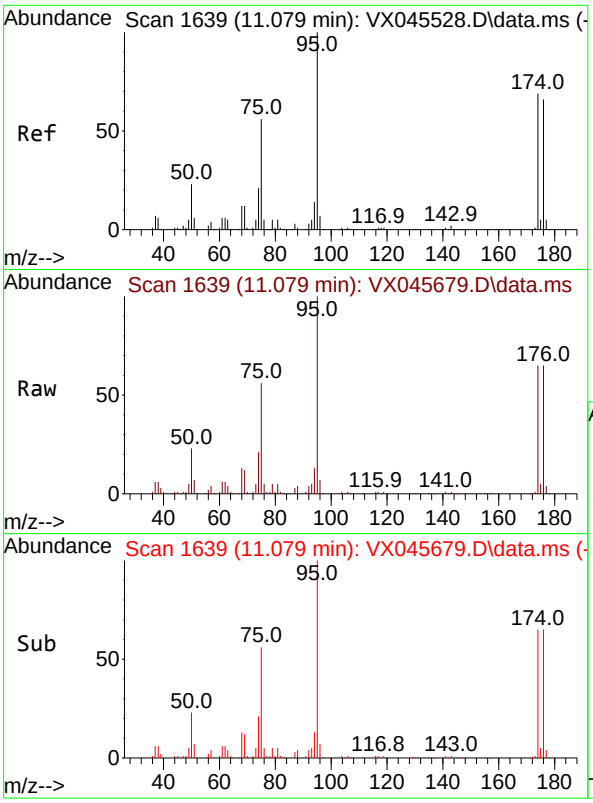


#50
Toluene-d8
Concen: 51.968 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Tgt Ion: 98 Resp: 170273

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4



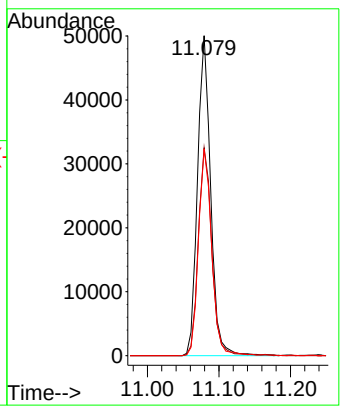


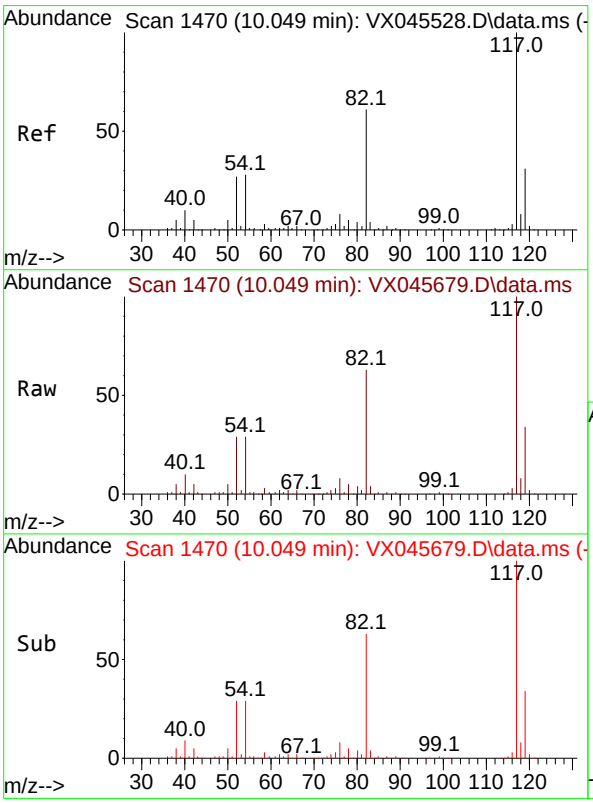
#62
4-Bromofluorobenzene
Concen: 53.497 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Tgt Ion: 95 Resp: 63846

Ion	Ratio	Lower	Upper
95	100		
174	66.7	0.0	135.8
176	65.1	0.0	131.4

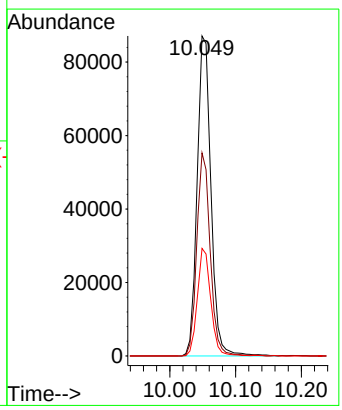


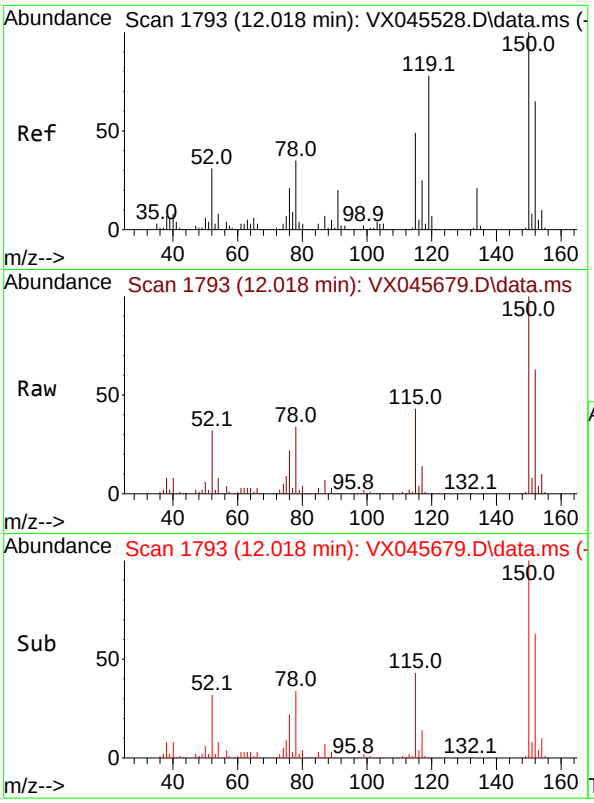


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Tgt Ion:117 Resp: 127098

Ion	Ratio	Lower	Upper
117	100		
82	63.4	49.2	73.8
119	33.6	25.1	37.7



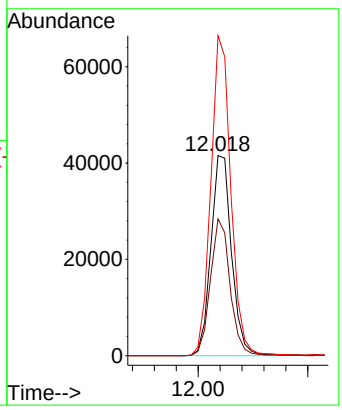


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045679.D
Acq: 09 Apr 2025 16:29

Instrument :
MSVOA_X
ClientSampleId :
B-149-SB02

Tgt Ion:152 Resp: 54289

Ion	Ratio	Lower	Upper
152	100		
115	65.3	46.9	140.7
150	155.1	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045666.D
Acq On : 09 Apr 2025 11:26
Operator : JC/MD
Sample : VX0409WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Quant Time: Apr 10 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	69921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	138334	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	127856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50474	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68376	53.474	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.940%			
35) Dibromofluoromethane	5.379	113	50392	51.343	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.680%			
50) Toluene-d8	8.647	98	172860	50.459	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.920%			
62) 4-Bromofluorobenzene	11.079	95	62262	49.896	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.800%			

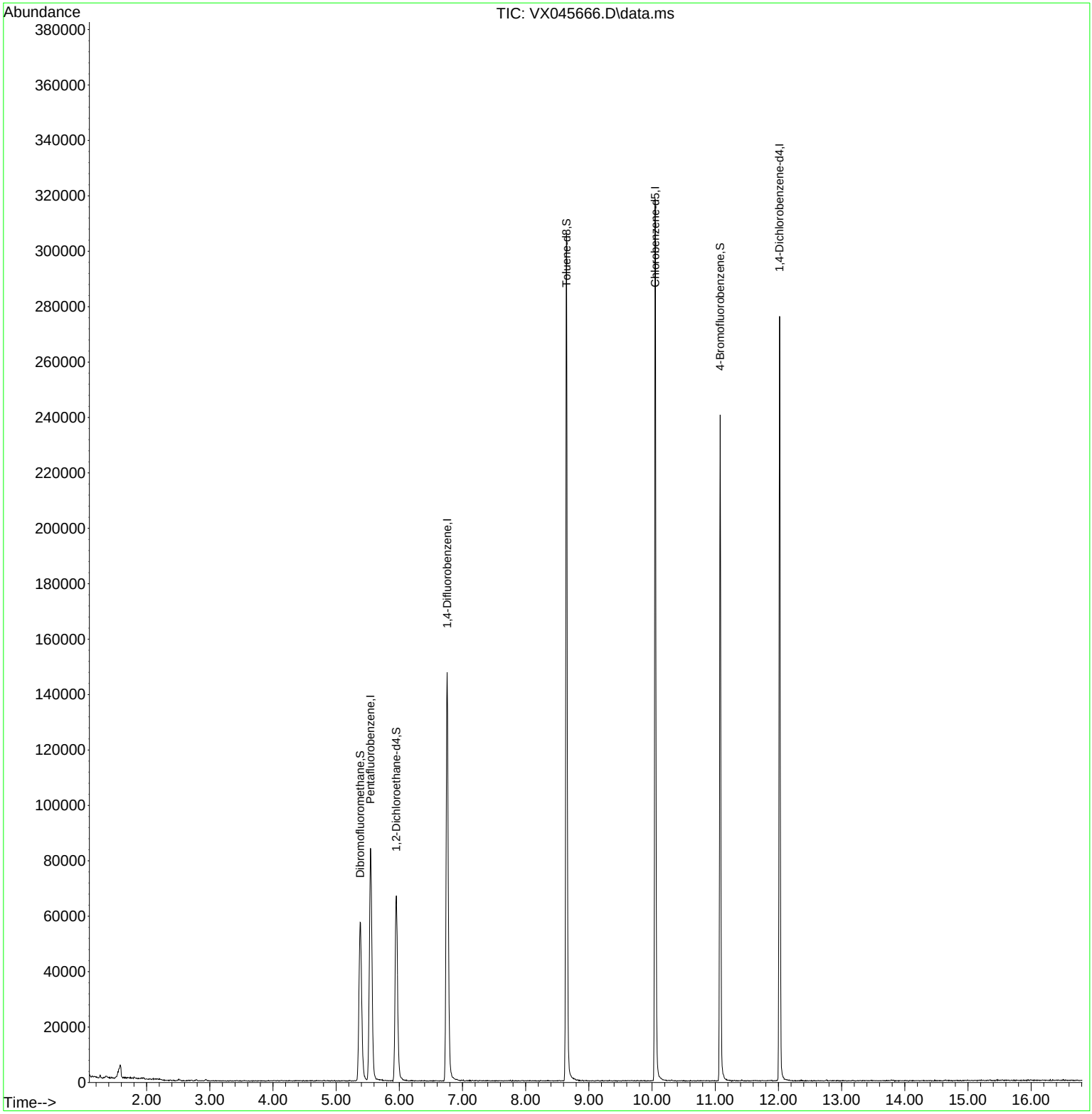
Target Compounds Qvalue

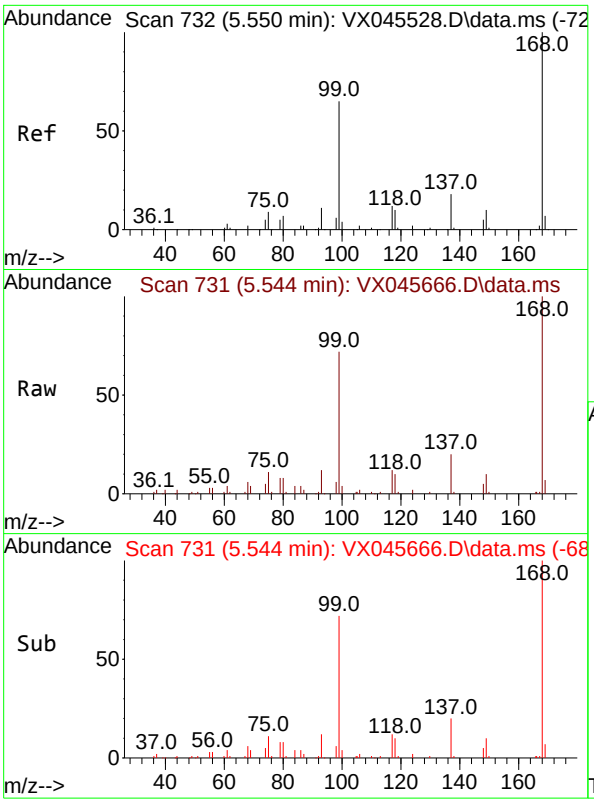
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045666.D
Acq On : 09 Apr 2025 11:26
Operator : JC/MD
Sample : VX0409WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Quant Time: Apr 10 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



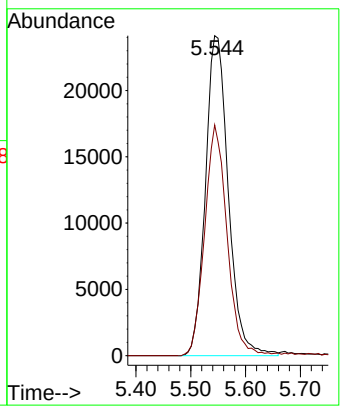


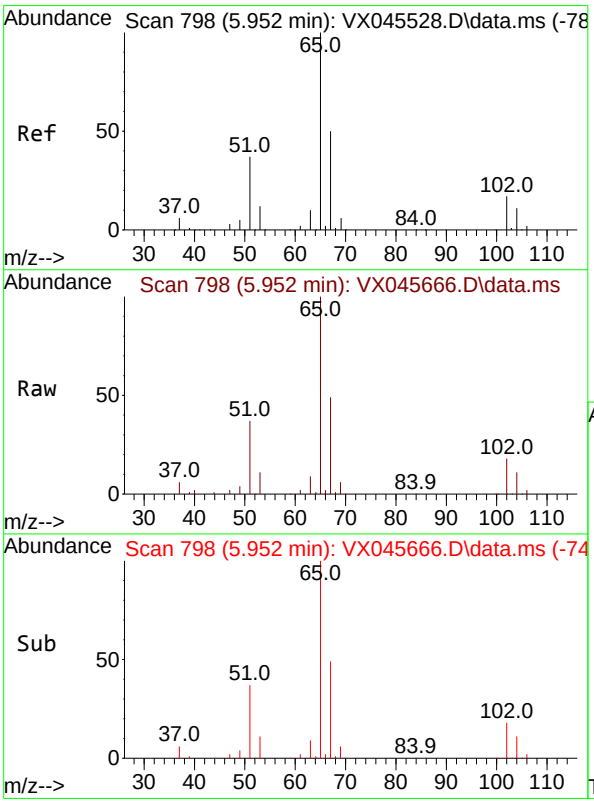
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Tgt Ion:168 Resp: 69921

Ion	Ratio	Lower	Upper
168	100		
99	72.1	52.3	78.5

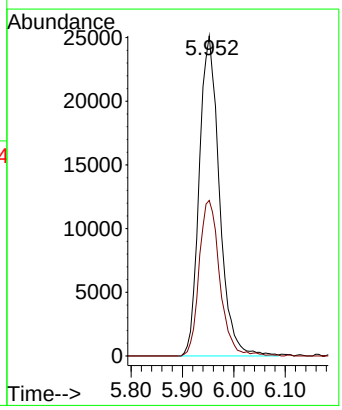


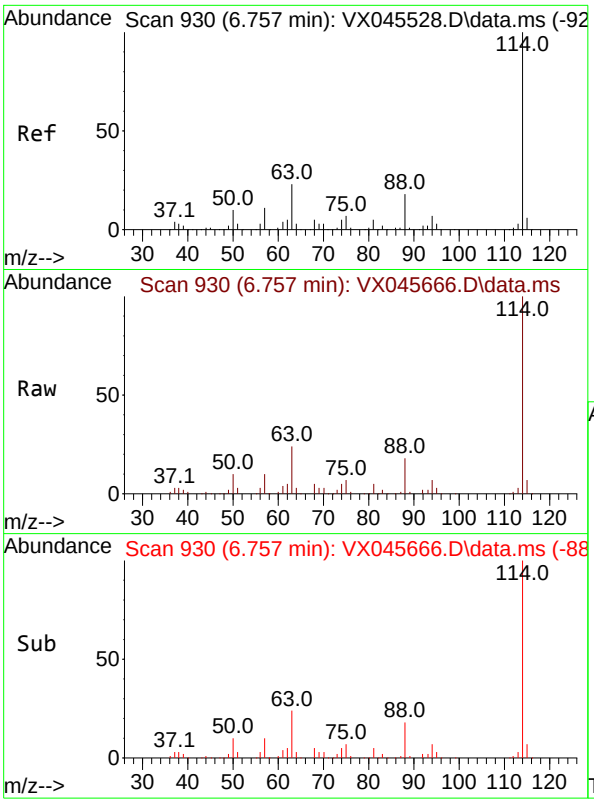


#33
1,2-Dichloroethane-d4
Concen: 53.474 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Tgt Ion: 65 Resp: 68376

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0



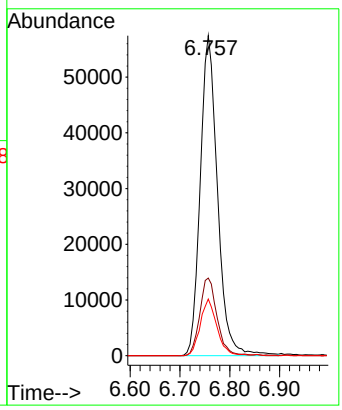


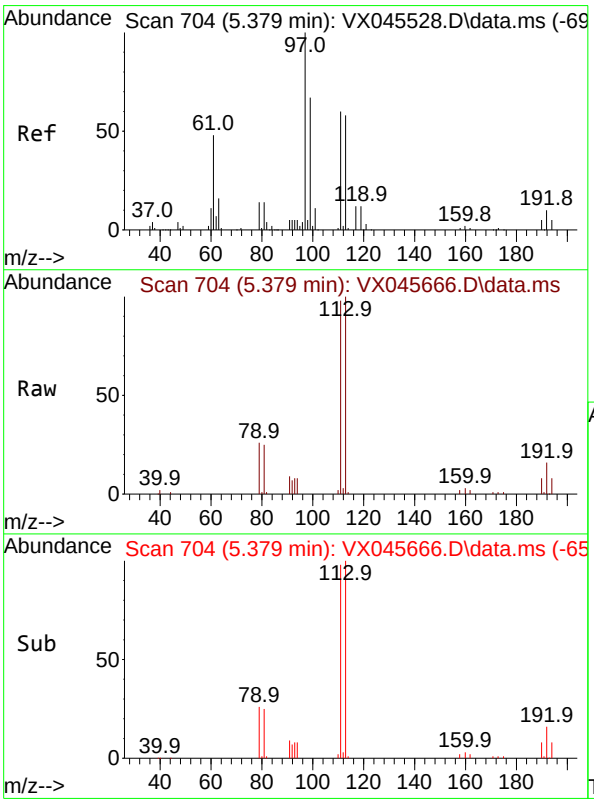
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Tgt Ion:114 Resp: 138334

Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	46.8
88	17.7	0.0	35.4

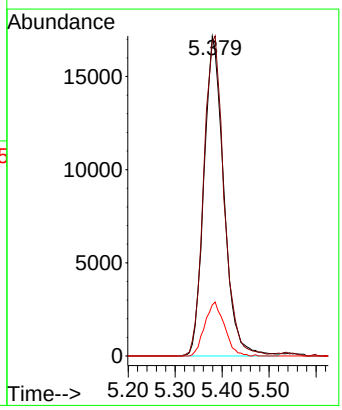


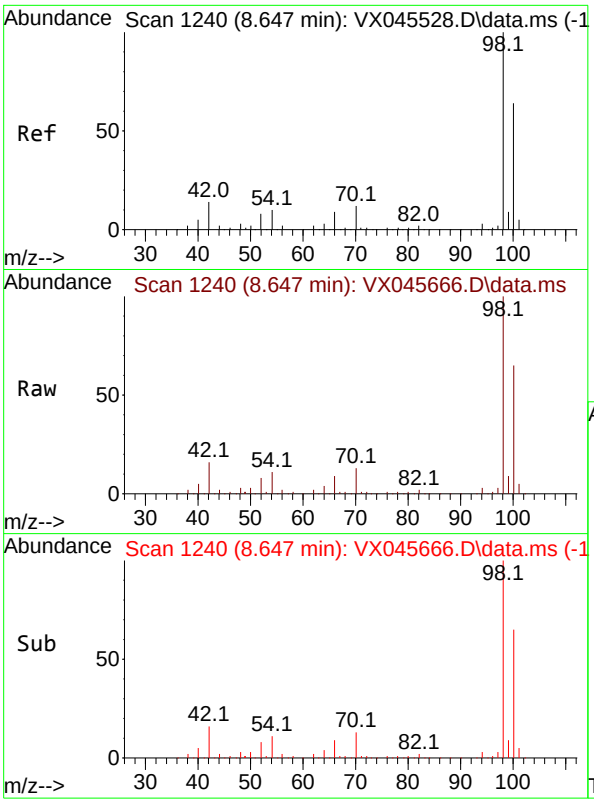


#35
Dibromofluoromethane
Concen: 51.343 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Tgt Ion:113 Resp: 50392

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.6
192	16.7	13.8	20.6



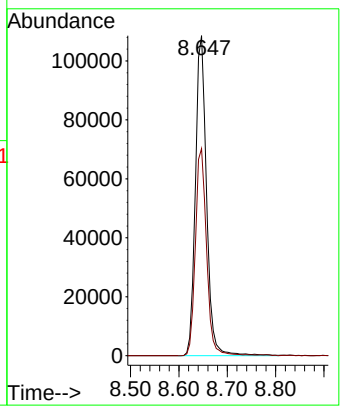


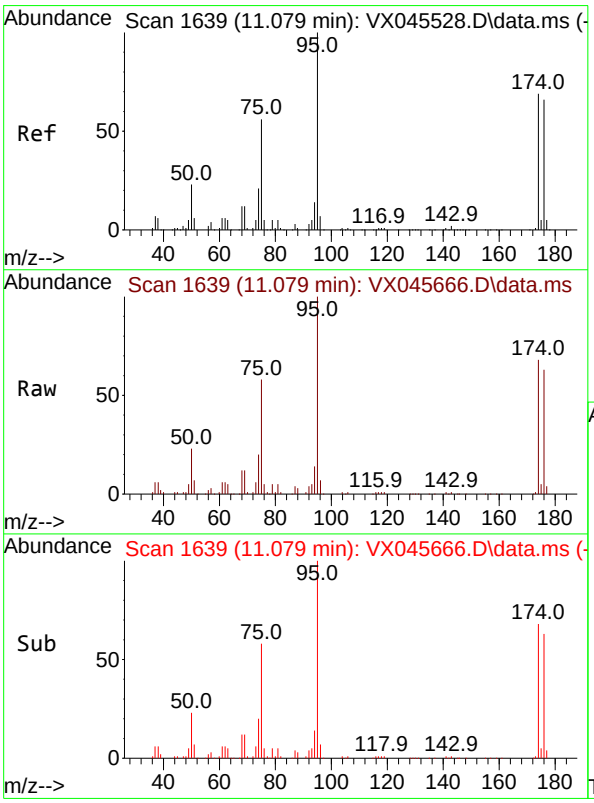
#50
Toluene-d8
Concen: 50.459 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Tgt Ion: 98 Resp: 172860

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.2	78.4

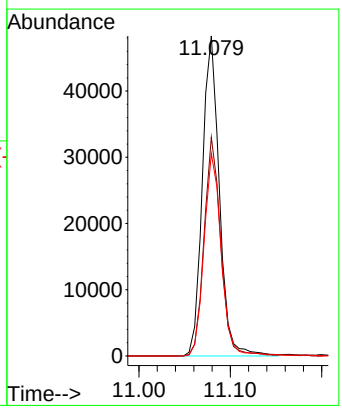


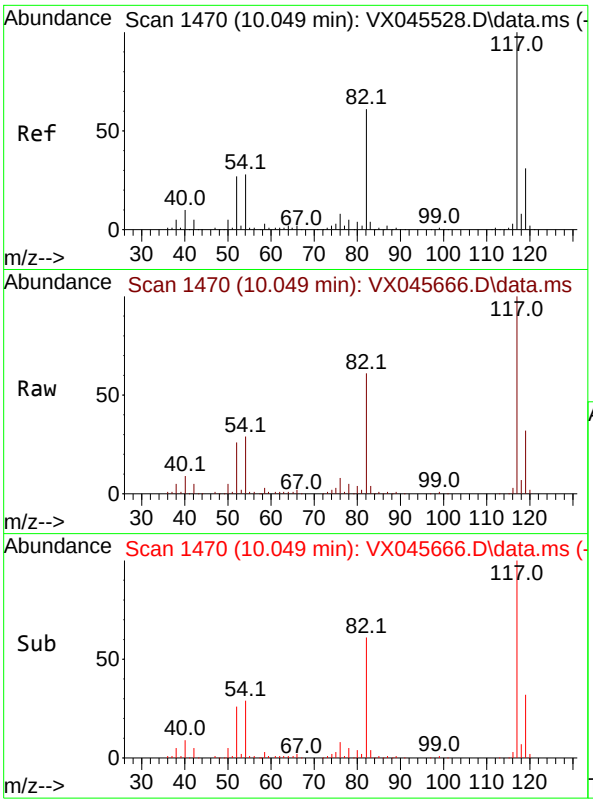


#62
4-Bromofluorobenzene
Concen: 49.896 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Tgt Ion: 95 Resp: 62262

Ion	Ratio	Lower	Upper
95	100		
174	67.0	0.0	135.8
176	63.9	0.0	131.4



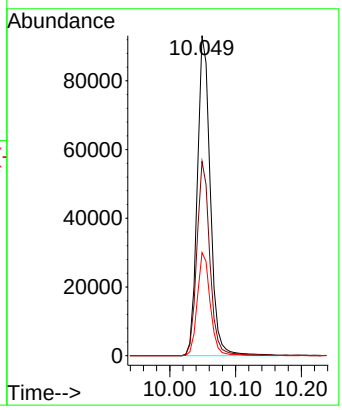


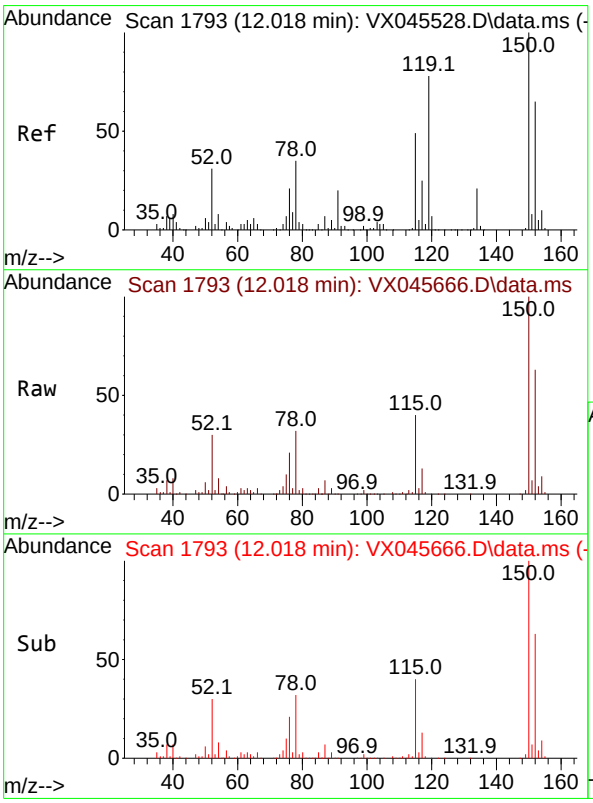
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Tgt Ion:117 Resp: 127856

Ion	Ratio	Lower	Upper
117	100		
82	60.7	49.2	73.8
119	32.2	25.1	37.7

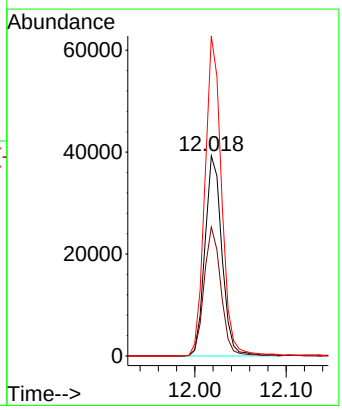




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045666.D
Acq: 09 Apr 2025 11:26

Tgt Ion:152 Resp: 50474

Ion	Ratio	Lower	Upper
152	100		
115	64.3	46.9	140.7
150	157.2	0.0	349.4



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045667.D
Acq On : 09 Apr 2025 11:49
Operator : JC/MD
Sample : VX0409WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	94074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	163361	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	141398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	92053	53.508	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.020%			
35) Dibromofluoromethane	5.379	113	63174	54.505	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.020%			
50) Toluene-d8	8.647	98	214655	53.060	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.120%			
62) 4-Bromofluorobenzene	11.079	95	77473	52.574	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28296	20.113	ug/l	99
3) Chloromethane	1.301	50	27094	18.746	ug/l	96
4) Vinyl Chloride	1.374	62	24425	18.466	ug/l	98
5) Bromomethane	1.593	94	11395	18.169	ug/l	98
6) Chloroethane	1.672	64	14346	20.443	ug/l	100
7) Trichlorofluoromethane	1.880	101	38861	19.702	ug/l	96
8) Diethyl Ether	2.130	74	12161	18.364	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.319	101	23620	20.436	ug/l	95
10) Methyl Iodide	2.447	142	26699	18.520	ug/l	98
11) Tert butyl alcohol	2.965	59	22380	96.798	ug/l	97
12) 1,1-Dichloroethene	2.313	96	20770	18.391	ug/l	96
13) Acrolein	2.233	56	25659	80.591	ug/l	99
14) Allyl chloride	2.660	41	41579	19.404	ug/l	98
15) Acrylonitrile	3.062	53	68147	93.374	ug/l	99
16) Acetone	2.380	43	65896	93.280	ug/l	95
17) Carbon Disulfide	2.508	76	46029	16.502	ug/l	99
18) Methyl Acetate	2.703	43	32926	20.244	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	76110	19.265	ug/l	100
20) Methylene Chloride	2.782	84	24229	18.320	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	21257	18.424	ug/l	97
22) Diisopropyl ether	3.757	45	79613	18.861	ug/l #	83
23) Vinyl Acetate	3.721	43	345218	94.659	ug/l	100
24) 1,1-Dichloroethane	3.605	63	45684	19.137	ug/l	99
25) 2-Butanone	4.556	43	97809	94.586	ug/l	98
26) 2,2-Dichloropropane	4.471	77	32813	21.275	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	26125	18.585	ug/l	97
28) Bromochloromethane	4.891	49	22802	19.766	ug/l	99
29) Tetrahydrofuran	5.007	42	62847	93.742	ug/l	99
30) Chloroform	5.086	83	47524	19.348	ug/l	98
31) Cyclohexane	5.458	56	39121	18.537	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	39802	19.150	ug/l	99
36) 1,1-Dichloropropene	5.684	75	30850	19.713	ug/l	98
37) Ethyl Acetate	4.715	43	35720	18.112	ug/l	99
38) Carbon Tetrachloride	5.666	117	33982	20.092	ug/l	96
39) Methylcyclohexane	7.373	83	37396	19.494	ug/l	95
40) Benzene	6.031	78	92251	19.301	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045667.D
Acq On : 09 Apr 2025 11:49
Operator : JC/MD
Sample : VX0409WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	21224	20.397	ug/l		97
42) 1,2-Dichloroethane	6.086	62	40264	20.397	ug/l		99
43) Isopropyl Acetate	6.336	43	57645	19.285	ug/l		100
44) Trichloroethene	7.123	130	21805	19.194	ug/l		97
45) 1,2-Dichloropropane	7.428	63	23339	19.571	ug/l		100
46) Dibromomethane	7.580	93	17802	19.446	ug/l		98
47) Bromodichloromethane	7.818	83	35828	19.598	ug/l		98
48) Methyl methacrylate	7.690	41	30321	19.647	ug/l		99
49) 1,4-Dioxane	7.659	88	11977	428.937	ug/l		97
51) 4-Methyl-2-Pentanone	8.568	43	200067	100.967	ug/l		99
52) Toluene	8.714	92	55913	19.333	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	30206	18.684	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	34931	20.333	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	22964	19.926	ug/l		96
56) Ethyl methacrylate	9.116	69	35297	19.790	ug/l		99
57) 1,3-Dichloropropane	9.305	76	39607	19.736	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	88591	98.189	ug/l		100
59) 2-Hexanone	9.427	43	148084	100.919	ug/l		99
60) Dibromochloromethane	9.519	129	24830	19.763	ug/l		98
61) 1,2-Dibromoethane	9.604	107	23143	19.837	ug/l		99
64) Tetrachloroethene	9.269	164	20900	20.935	ug/l		98
65) Chlorobenzene	10.073	112	61480	20.348	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	20527	19.568	ug/l		99
67) Ethyl Benzene	10.189	91	108358	20.024	ug/l		98
68) m/p-Xylenes	10.299	106	79752	40.521	ug/l		99
69) o-Xylene	10.640	106	39137	20.186	ug/l		99
70) Styrene	10.653	104	64826	20.258	ug/l		98
71) Bromoform	10.799	173	15275	19.502	ug/l	#	100
73) Isopropylbenzene	10.957	105	104506	20.330	ug/l		99
74) N-amyl acetate	10.842	43	49023	19.937	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	35954	19.910	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	31590m	20.180	ug/l		
77) Bromobenzene	11.195	156	24141	20.325	ug/l		98
78) n-propylbenzene	11.299	91	120369	20.329	ug/l		100
79) 2-Chlorotoluene	11.360	91	74998	19.813	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	88053	20.715	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	8674	18.806	ug/l		95
82) 4-Chlorotoluene	11.451	91	86832	20.575	ug/l		100
83) tert-Butylbenzene	11.713	119	84807	20.152	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	86160	20.195	ug/l		99
85) sec-Butylbenzene	11.890	105	106901	20.682	ug/l		100
86) p-Isopropyltoluene	12.006	119	86083	20.201	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	42896	19.841	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	43700	19.938	ug/l		97
89) n-Butylbenzene	12.329	91	74429	20.141	ug/l		99
90) Hexachloroethane	12.536	117	14599	19.934	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	44205	20.565	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7722	20.447	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	22901	19.140	ug/l		99
94) Hexachlorobutadiene	13.725	225	10679	20.712	ug/l		98
95) Naphthalene	13.774	128	87230	19.591	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	24734	19.742	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045667.D
Acq On : 09 Apr 2025 11:49
Operator : JC/MD
Sample : VX0409WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

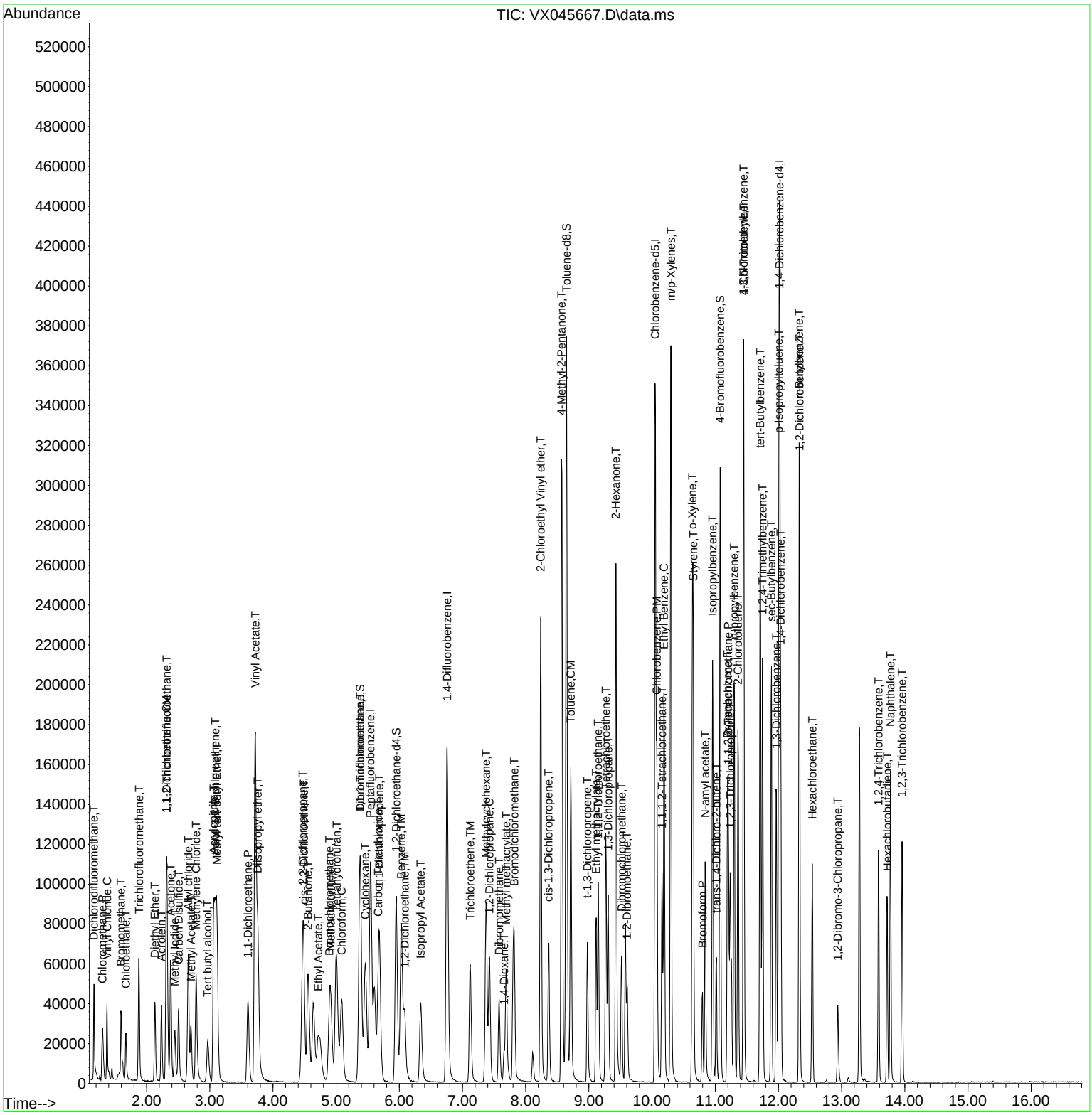
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045667.D
Acq On : 09 Apr 2025 11:49
Operator : JC/MD
Sample : VX0409WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045668.D
Acq On : 09 Apr 2025 12:14
Operator : JC/MD
Sample : VX0409WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 01:34:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	83922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	147335	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60456	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	83081	54.134	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.260%			
35) Dibromofluoromethane	5.379	113	56225	53.786	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.580%			
50) Toluene-d8	8.647	98	193619	53.066	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.140%			
62) 4-Bromofluorobenzene	11.079	95	72225	54.344	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.680%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	26359	21.002	ug/l	97
3) Chloromethane	1.301	50	24598	19.078	ug/l	96
4) Vinyl Chloride	1.374	62	22249	18.856	ug/l	98
5) Bromomethane	1.593	94	10738	19.193	ug/l	96
6) Chloroethane	1.672	64	13084	20.900	ug/l	96
7) Trichlorofluoromethane	1.874	101	37130	21.102	ug/l	98
8) Diethyl Ether	2.130	74	12288	20.801	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	22284	21.613	ug/l	98
10) Methyl Iodide	2.447	142	25440	19.781	ug/l	98
11) Tert butyl alcohol	2.971	59	21640	104.919	ug/l	97
12) 1,1-Dichloroethene	2.313	96	19384	19.240	ug/l	96
13) Acrolein	2.233	56	24667	86.848	ug/l	100
14) Allyl chloride	2.660	41	38545	20.164	ug/l	100
15) Acrylonitrile	3.062	53	66469	102.092	ug/l	98
16) Acetone	2.380	43	63148	100.204	ug/l	100
17) Carbon Disulfide	2.502	76	43259	17.385	ug/l	98
18) Methyl Acetate	2.703	43	32001	22.055	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	74214	21.058	ug/l	99
20) Methylene Chloride	2.782	84	23629	20.028	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	20510	19.927	ug/l	95
22) Diisopropyl ether	3.757	45	76032	20.192	ug/l #	84
23) Vinyl Acetate	3.715	43	337495	103.736	ug/l	100
24) 1,1-Dichloroethane	3.605	63	42727	20.064	ug/l	98
25) 2-Butanone	4.556	43	93998	101.897	ug/l	98
26) 2,2-Dichloropropane	4.471	77	31085	22.593	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	24738	19.727	ug/l	97
28) Bromochloromethane	4.891	49	22944	22.295	ug/l	95
29) Tetrahydrofuran	5.001	42	60710	101.509	ug/l	99
30) Chloroform	5.086	83	45617	20.818	ug/l	95
31) Cyclohexane	5.464	56	36967	19.636	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	37694	20.330	ug/l	99
36) 1,1-Dichloropropene	5.684	75	29168	20.666	ug/l	97
37) Ethyl Acetate	4.715	43	35265	19.826	ug/l	99
38) Carbon Tetrachloride	5.666	117	32304	21.177	ug/l	96
39) Methylcyclohexane	7.373	83	36184	20.914	ug/l	97
40) Benzene	6.031	78	88084	20.434	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045668.D
Acq On : 09 Apr 2025 12:14
Operator : JC/MD
Sample : VX0409WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 01:34:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	19925	21.231	ug/l		98
42) 1,2-Dichloroethane	6.080	62	38327	21.527	ug/l		98
43) Isopropyl Acetate	6.336	43	56680	21.025	ug/l		99
44) Trichloroethene	7.117	130	20859	20.359	ug/l		98
45) 1,2-Dichloropropane	7.421	63	22357	20.787	ug/l		97
46) Dibromomethane	7.580	93	17307	20.962	ug/l		99
47) Bromodichloromethane	7.818	83	34699	21.045	ug/l		97
48) Methyl methacrylate	7.690	41	29460	21.165	ug/l		99
49) 1,4-Dioxane	7.659	88	12023	477.420	ug/l		97
51) 4-Methyl-2-Pentanone	8.568	43	193392	108.215	ug/l		99
52) Toluene	8.714	92	53050	20.338	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	28240	19.284	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	33764	21.791	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	21842	21.014	ug/l		97
56) Ethyl methacrylate	9.116	69	34262	21.299	ug/l		99
57) 1,3-Dichloropropane	9.305	76	38282	21.151	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	86030	105.722	ug/l		99
59) 2-Hexanone	9.427	43	144024	108.828	ug/l		100
60) Dibromochloromethane	9.519	129	23898	21.090	ug/l		100
61) 1,2-Dibromoethane	9.604	107	22040	20.947	ug/l		100
64) Tetrachloroethene	9.269	164	20103	22.004	ug/l		98
65) Chlorobenzene	10.073	112	57784	20.898	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	20170	21.011	ug/l		99
67) Ethyl Benzene	10.189	91	103577	20.915	ug/l		97
68) m/p-Xylenes	10.299	106	76264	42.342	ug/l		99
69) o-Xylene	10.640	106	36814	20.748	ug/l		97
70) Styrene	10.653	104	62023	21.179	ug/l		99
71) Bromoform	10.799	173	14473	20.192	ug/l	#	96
73) Isopropylbenzene	10.957	105	100080	20.667	ug/l		100
74) N-amyl acetate	10.842	43	48343	20.869	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	34910	20.522	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	30554m	20.719	ug/l		
77) Bromobenzene	11.195	156	22419	20.037	ug/l		99
78) n-propylbenzene	11.299	91	114673	20.559	ug/l		100
79) 2-Chlorotoluene	11.360	91	72313	20.279	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	84415	21.081	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	8233	18.948	ug/l		91
82) 4-Chlorotoluene	11.451	91	81662	20.540	ug/l		99
83) tert-Butylbenzene	11.713	119	81324	20.513	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	84218	20.954	ug/l		98
85) sec-Butylbenzene	11.890	105	102552	21.061	ug/l		99
86) p-Isopropyltoluene	12.006	119	83431	20.783	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	41742	20.495	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	41769	20.229	ug/l		97
89) n-Butylbenzene	12.329	91	72507	20.828	ug/l		99
90) Hexachloroethane	12.536	117	13954	20.226	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	42899	21.185	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7403	20.808	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	23347	20.713	ug/l		98
94) Hexachlorobutadiene	13.725	225	10328	21.264	ug/l		99
95) Naphthalene	13.774	128	85609	20.410	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	23965	20.305	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045668.D
Acq On : 09 Apr 2025 12:14
Operator : JC/MD
Sample : VX0409WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 01:34:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

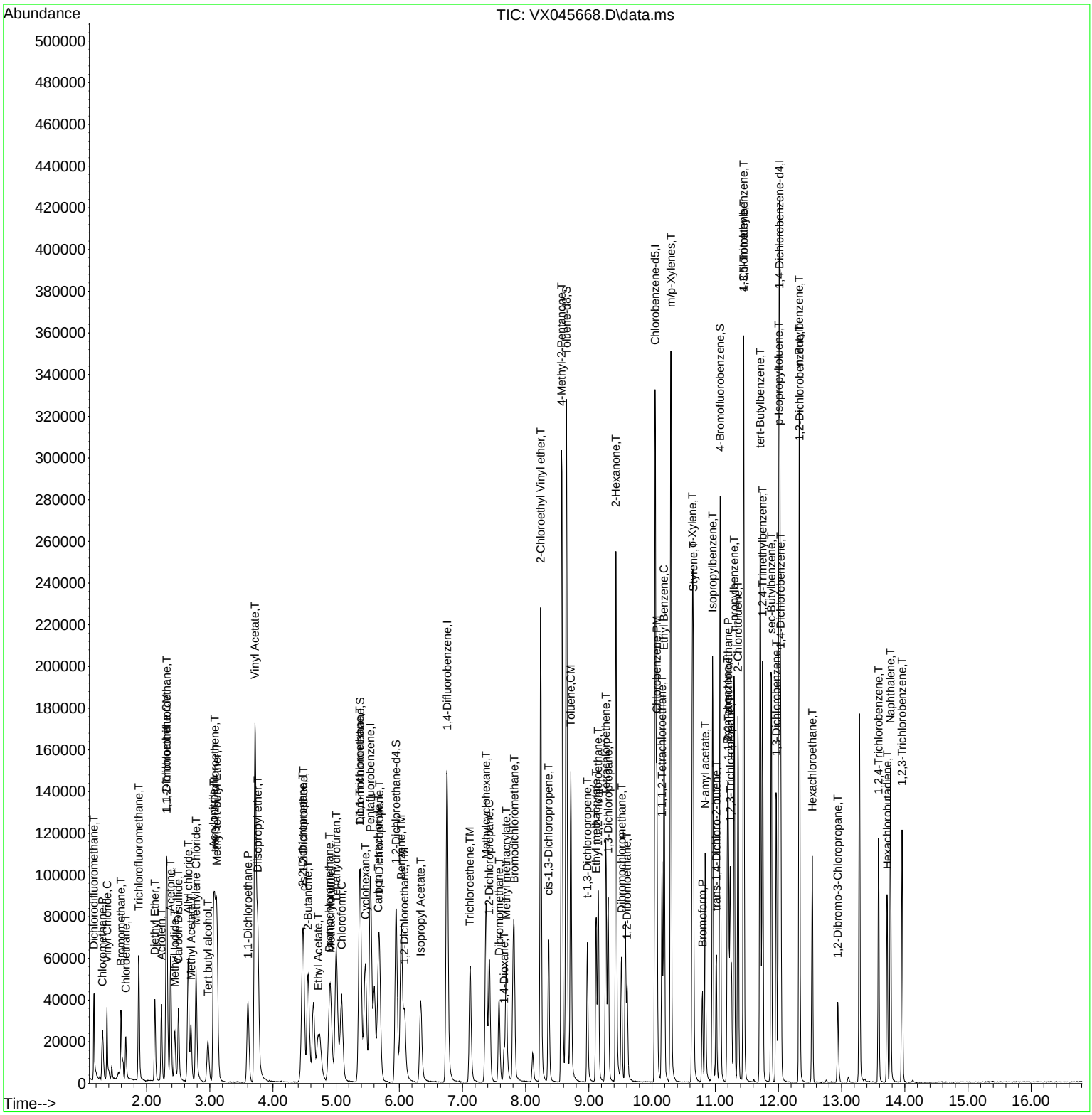
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045668.D
Acq On : 09 Apr 2025 12:14
Operator : JC/MD
Sample : VX0409WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 01:34:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vx040925	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045664.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:23 AM	MMDadoda	4/10/2025 10:14:42 AM	Peak Integrated by Software
VX0409WBS01	VX045667.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:27 AM	MMDadoda	4/10/2025 10:14:37 AM	Peak Integrated by Software
VX0409WBSD01	VX045668.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:33 AM	MMDadoda	4/10/2025 10:14:34 AM	Peak Integrated by Software
VSTDCCC050	VX045684.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:38 AM	MMDadoda	4/10/2025 10:14:29 AM	Peak Integrated by Software

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 10:14:57 AM		
SubDirectory	VX040925	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133622
Initial Calibration Stds	
CCC	VP133623,VP133624
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045663.D	09 Apr 2025 09:38	JC/MD	Ok
2	VSTDCCC050	VX045664.D	09 Apr 2025 10:35	JC/MD	Ok,M
3	VX0409MBL01	VX045665.D	09 Apr 2025 11:03	JC/MD	Ok
4	VX0409WBL01	VX045666.D	09 Apr 2025 11:26	JC/MD	Ok
5	VX0409WBS01	VX045667.D	09 Apr 2025 11:49	JC/MD	Ok,M
6	VX0409WBSD01	VX045668.D	09 Apr 2025 12:14	JC/MD	Ok,M
7	Q1739-01	VX045669.D	09 Apr 2025 12:38	JC/MD	Ok
8	Q1739-02	VX045670.D	09 Apr 2025 13:01	JC/MD	Ok
9	PB167487TB	VX045671.D	09 Apr 2025 13:24	JC/MD	Ok
10	IBLK	VX045672.D	09 Apr 2025 13:47	JC/MD	Ok
11	Q1729-01	VX045673.D	09 Apr 2025 14:10	JC/MD	Ok
12	Q1729-02	VX045674.D	09 Apr 2025 14:33	JC/MD	Ok
13	Q1729-03	VX045675.D	09 Apr 2025 14:57	JC/MD	Ok
14	Q1729-04	VX045676.D	09 Apr 2025 15:20	JC/MD	Ok
15	PB167492TB	VX045677.D	09 Apr 2025 15:43	JC/MD	Ok
16	Q1746-02	VX045678.D	09 Apr 2025 16:06	JC/MD	Ok
17	Q1746-04	VX045679.D	09 Apr 2025 16:29	JC/MD	Ok
18	IBLK	VX045680.D	09 Apr 2025 16:52	JC/MD	Ok
19	Q1762-01	VX045681.D	09 Apr 2025 17:16	JC/MD	Dilution
20	Q1762-02	VX045682.D	09 Apr 2025 17:39	JC/MD	Ok
21	IBLK	VX045683.D	09 Apr 2025 18:02	JC/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 10:14:57 AM		
SubDirectory	VX040925	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133622
Initial Calibration Stds	
CCC	VP133623,VP133624
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VX045684.D	09 Apr 2025 18:25	JC/MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER-	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER-	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 10:14:57 AM		
SubDirectory	VX040925	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133622
Initial Calibration Stds	
CCC	VP133623,VP133624
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045663.D	09 Apr 2025 09:38		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045664.D	09 Apr 2025 10:35	pH#Lot#V12668	JC/MD	Ok,M
3	VX0409MBL01	VX0409MBL01	VX045665.D	09 Apr 2025 11:03		JC/MD	Ok
4	VX0409WBL01	VX0409WBL01	VX045666.D	09 Apr 2025 11:26		JC/MD	Ok
5	VX0409WBS01	VX0409WBS01	VX045667.D	09 Apr 2025 11:49		JC/MD	Ok,M
6	VX0409WBSD01	VX0409WBSD01	VX045668.D	09 Apr 2025 12:14		JC/MD	Ok,M
7	Q1739-01	WC-LIQUID-20250404	VX045669.D	09 Apr 2025 12:38	vial A pH<2 oily sample	JC/MD	Ok
8	Q1739-02	WC-LIQUID-20250404	VX045670.D	09 Apr 2025 13:01	vial A pH<2 oily sample	JC/MD	Ok
9	PB167487TB	PB167487TB	VX045671.D	09 Apr 2025 13:24		JC/MD	Ok
10	IBLK	IBLK	VX045672.D	09 Apr 2025 13:47		JC/MD	Ok
11	Q1729-01	Storage-Blank-SOIL-RE	VX045673.D	09 Apr 2025 14:10	vial A pH<2	JC/MD	Ok
12	Q1729-02	Storage-Blank-WATER-	VX045674.D	09 Apr 2025 14:33	vial A pH<2	JC/MD	Ok
13	Q1729-03	Storage-Blank-WATER-	VX045675.D	09 Apr 2025 14:57	vial A pH<2	JC/MD	Ok
14	Q1729-04	Storage-Blank-SAMPLE	VX045676.D	09 Apr 2025 15:20	vial A pH<2	JC/MD	Ok
15	PB167492TB	PB167492TB	VX045677.D	09 Apr 2025 15:43		JC/MD	Ok
16	Q1746-02	B-149-SB01	VX045678.D	09 Apr 2025 16:06	vial A pH#5.0	JC/MD	Ok
17	Q1746-04	B-149-SB02	VX045679.D	09 Apr 2025 16:29	vial A pH#5.0	JC/MD	Ok
18	IBLK	IBLK	VX045680.D	09 Apr 2025 16:52		JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 10:14:57 AM		
SubDirectory	VX040925	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133622
Initial Calibration Stds	
CCC	VP133623,VP133624
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1762-01	MW4	VX045681.D	09 Apr 2025 17:16	vial A pH<2 Need 5X	JC/MD	Dilution
20	Q1762-02	MW5	VX045682.D	09 Apr 2025 17:39	vial A pH<2	JC/MD	Ok
21	IBLK	IBLK	VX045683.D	09 Apr 2025 18:02		JC/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VX045684.D	09 Apr 2025 18:25		JC/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP VOA	8260D			04/09/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP VOA	8260D			04/09/25	

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TCLP EXTRACTION LOGPAGE

PB167492

SOP ID : M1311-TCLP-15

SDG No : N/A

Start Prep Date : 04/07/2025 **Time :** 15:00

Weigh By : JP

End Prep Date : 04/08/2025 **Time :** 09:25

Balance ID : WC SC-7

Combination Ratio : 20

pH Meter ID : WC PH METER-1

ZHE Cleaning Batch : ~~N/A~~ JP VX040825.

Extraction By : JP

Initial Room Temperature: 23 °C

Filter By : JP

Final Room Temperature: 21 °C

Pippete ID : WC

TCLP Technician Signature : JP

Tumbler ID : ZHE-1

Supervisor By : 12

TCLP Filter ID : 50223706

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	23237	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling. TUMBLER ZHE-1 checked,30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25 11:45	JP / ZHE Room	S.T / VOC Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167492

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167492TB	LEB492	11	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-1
Q1732-04	TT-8	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1737-02	RT3069	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1740-04	TP-20	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1743-04	TP-16	04	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1744-02	B-158-SB01	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1744-04	B-158-SB02	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1745-04	IB-6A-WC	07	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1745-12	IB-6.5-WC	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1746-02	B-149-SB01	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1746-04	B-149-SB02	10	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167492TB	LEB492	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	N/A	N/A	N/A	N/A	100	N/A
Q1737-02	RT3069	N/A	N/A	N/A	N/A	100	N/A
Q1740-04	TP-20	N/A	N/A	N/A	N/A	100	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1746 **WorkList ID :** 188780 **Department :** TCLP Extraction **Date :** 04-07-2025 13:59:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1732-04	TT-8	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	04/04/2025	1311 ZHE
Q1737-02	RT3069	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	04/04/2025	1311 ZHE
Q1740-04	TP-20	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	04/04/2025	1311 ZHE
Q1743-04	TP-16	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311 ZHE
Q1744-02	B-158-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1744-04	B-158-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1745-04	IB-6A-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311 ZHE
Q1745-12	IB-6.5-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311 ZHE
Q1746-02	B-149-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1746-04	B-149-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311 ZHE

Date/Time 04/07/25 14:10
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 04/07/25 17:00
Raw Sample Received by:
Raw Sample Relinquished by: Cool C

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Hit Summary Sheet
SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-149-SB01**								
Q1746-01	B-149-SB01	SOIL	Phenanthrene		110.000	J	23.4	190	ug/Kg
Q1746-01	B-149-SB01	SOIL	Fluoranthene		200.000		33.6	190	ug/Kg
Q1746-01	B-149-SB01	SOIL	Pyrene		190.000		40.3	190	ug/Kg
Q1746-01	B-149-SB01	SOIL	Benzo(a)anthracene		100.000	J	25.7	190	ug/Kg
Q1746-01	B-149-SB01	SOIL	Chrysene		120.000	J	22.3	190	ug/Kg
Q1746-01	B-149-SB01	SOIL	Benzo(b)fluoranthene		130.000	J	21.3	190	ug/Kg
Q1746-01	B-149-SB01	SOIL	Benzo(a)pyrene		100.000	J	33	190	ug/Kg
			Total Svoc :		**950.00**				
Q1746-01	B-149-SB01	SOIL	Hexanedioic acid, bis(2-ethylhexy	*	160.000	J	0	0	ug/Kg
Q1746-01	B-149-SB01	SOIL	n-Hexadecanoic acid	*	210.000	JB	0	0	ug/Kg
Q1746-01	B-149-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	350.000	AB	0	0	ug/Kg
Q1746-01	B-149-SB01	SOIL	3-Eicosene, (E)-	*	75.300	J	0	0	ug/Kg
Q1746-01	B-149-SB01	SOIL	Benzophenone	*	290.000	J	0	0	ug/Kg
Q1746-01	B-149-SB01	SOIL	Butyl citrate	*	120.000	J	0	0	ug/Kg
			Total Tics :		**1,205.30**				
			Total Concentration:		**2,155.30**				
Client ID :	**B-149-SB02**								
Q1746-03	B-149-SB02	SOIL	Chrysene		86.400	J	23.4	200	ug/Kg
Q1746-03	B-149-SB02	SOIL	Benzo(b)fluoranthene		110.000	J	22.4	200	ug/Kg
Q1746-03	B-149-SB02	SOIL	Benzo(k)fluoranthene		100.000	J	26.4	200	ug/Kg
			Total Svoc :		**296.40**				
Q1746-03	B-149-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	530.000	AB	0	0	ug/Kg
Q1746-03	B-149-SB02	SOIL	Benzophenone	*	410.000	J	0	0	ug/Kg
Q1746-03	B-149-SB02	SOIL	Cyclotetracosane	*	160.000	J	0	0	ug/Kg
Q1746-03	B-149-SB02	SOIL	n-Hexadecanoic acid	*	450.000	JB	0	0	ug/Kg
Q1746-03	B-149-SB02	SOIL	Octadecanoic acid	*	140.000	JB	0	0	ug/Kg
			Total Tics :		**1,690.00**				
			Total Concentration:		**1,986.40**				
Client ID :	**B-158-GW01**								
Q1746-05	B-158-GW01	WATER	1-Heneicosanol	*	10.500	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	1-Phenyl-1-butene	*	3.500	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.600	AB	0	0	ug/L
Q1746-05	B-158-GW01	WATER	Benzene, 1,2,3,4-tetramethyl-	*	2.300	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	Benzene, 1,2,3,5-tetramethyl-	*	4.700	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	Benzene, 1,2,4,5-tetramethyl-	*	2.800	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	Benzophenone	*	11.100	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	Butyl citrate	*	8.900	J	0	0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Q1746-05	B-158-GW01	WATER	Ethanol, 2-(2-butoxyethoxy)-	*	24.400	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	n-Hexadecanoic acid	*	17.700	J	0	0	ug/L
Q1746-05	B-158-GW01	WATER	Octadecanoic acid	*	20.800	J	0	0	ug/L
			Total Tics :		**110.30**				
			Total Concentration:		**110.30**				
Client ID :	**B-149-GW01**								
Q1746-06	B-149-GW01	WATER	Di-n-butylphthalate		4.100	J	1.3	5.2	ug/L
			Total Svoc :		**4.10**				
Q1746-06	B-149-GW01	WATER	1,2-Benzenedicarboxylic acid, bis	*	2.500	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	1,4-Dibutyl benzene-1,4-dicarbox	*	4.600	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	1-Hexacosene	*	3.200	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.900	AB	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Adipic acid, butyl 3-pentyl ester	*	69.500	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Benzophenone	*	3.600	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Butyl citrate	*	5.800	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Ethanol, 2-(2-butoxyethoxy)-	*	8.900	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Ethanol, 2-[2-(2-butoxyethoxy)eth	*	2.300	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Hexanoic acid, 2-ethyl-	*	31.100	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	n-Hexadecanoic acid	*	31.200	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Octadecanoic acid	*	51.500	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Pentanoic acid, 2,2,4-trimethyl-3-	*	5.700	J	0	0	ug/L
Q1746-06	B-149-GW01	WATER	Benzoic acid	*	5.000	J	4.3	10.3	ug/L
			Total Tics :		**229.80**				
			Total Concentration:		**233.90**				
Client ID :	**EB-2025-4-7**								
Q1746-07	EB-2025-4-7	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	5.400	AB	0	0	ug/L
Q1746-07	EB-2025-4-7	WATER	7,9-Di-tert-butyl-1-oxaspiro(4,5)d	*	4.200	J	0	0	ug/L
Q1746-07	EB-2025-4-7	WATER	trans-13-Octadecenoic acid	*	2.500	J	0	0	ug/L
			Total Tics :		**12.10**				
			Total Concentration:		**12.10**				

SAMPLE DATA

Raw Data: **BP024240.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024240.D	1	04/08/25 08:59	04/09/25 18:22	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.7	U	24.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.2	U	27.2	190	ug/Kg
95-57-8	2-Chlorophenol	27.3	U	27.3	190	ug/Kg
95-48-7	2-Methylphenol	33.4	U	33.4	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.0	U	42.0	190	ug/Kg
98-86-2	Acetophenone	33.0	U	33.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.0	U	46.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.0	U	53.0	89.5	ug/Kg
67-72-1	Hexachloroethane	19.7	U	19.7	190	ug/Kg
98-95-3	Nitrobenzene	20.5	U	20.5	190	ug/Kg
78-59-1	Isophorone	36.7	U	36.7	190	ug/Kg
88-75-5	2-Nitrophenol	65.1	U	65.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.5	U	72.5	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.5	U	34.5	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.7	U	31.7	190	ug/Kg
91-20-3	Naphthalene	25.4	U	25.4	190	ug/Kg
106-47-8	4-Chloroaniline	39.6	UQ	39.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.3	U	28.3	190	ug/Kg
105-60-2	Caprolactam	58.3	U	58.3	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.1	U	32.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.6	U	28.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.2	U	22.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.6	U	32.6	190	ug/Kg
92-52-4	1,1-Biphenyl	24.4	U	24.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.2	U	25.2	190	ug/Kg
88-74-4	2-Nitroaniline	53.8	U	53.8	190	ug/Kg
131-11-3	Dimethylphthalate	30.3	U	30.3	190	ug/Kg

Raw Data: **BP024240.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024240.D	1	04/08/25 08:59	04/09/25 18:22	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.3	U	32.3	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.6	U	37.6	190	ug/Kg
99-09-2	3-Nitroaniline	51.5	UQ	51.5	190	ug/Kg
83-32-9	Acenaphthene	23.8	U	23.8	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.4	U	25.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.0	U	56.0	190	ug/Kg
84-66-2	Diethylphthalate	31.7	U	31.7	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.9	U	29.9	190	ug/Kg
86-73-7	Fluorene	28.3	U	28.3	190	ug/Kg
100-01-6	4-Nitroaniline	71.8	U	71.8	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.8	U	36.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.1	U	31.1	190	ug/Kg
118-74-1	Hexachlorobenzene	28.3	U	28.3	190	ug/Kg
1912-24-9	Atrazine	38.0	U	38.0	190	ug/Kg
87-86-5	Pentachlorophenol	57.4	U	57.4	370	ug/Kg
85-01-8	Phenanthrene	110	J	23.4	190	ug/Kg
120-12-7	Anthracene	37.3	U	37.3	190	ug/Kg
86-74-8	Carbazole	34.9	U	34.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.6	U	53.6	190	ug/Kg
206-44-0	Fluoranthene	200		33.6	190	ug/Kg
129-00-0	Pyrene	190		40.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.9	U	79.9	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.1	U	41.1	370	ug/Kg
56-55-3	Benzo(a)anthracene	100	J	25.7	190	ug/Kg
218-01-9	Chrysene	120	J	22.3	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.2	U	66.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.1	U	97.1	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	21.3	190	ug/Kg

Raw Data: **BP024240.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024240.D	1	04/08/25 08:59	04/09/25 18:22	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.1	U	25.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	J	33.0	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.6	U	32.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.7	U	30.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.8	U	28.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.6	U	28.6	190	ug/Kg
123-91-1	1,4-Dioxane	50.6	U	50.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.7	U	30.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	105		30 (15) - 130 (107)	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.2		30 (18) - 130 (107)	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.6		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		30 (10) - 130 (116)	69%	SPK: 150
1718-51-0	Terphenyl-d14	62.9		30 (10) - 130 (105)	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	274000	7.74			
1146-65-2	Naphthalene-d8	1110000	10.516			
15067-26-2	Acenaphthene-d10	675000	14.375			
1517-22-2	Phenanthrene-d10	1350000	17.175			
1719-03-5	Chrysene-d12	1470000	21.621			
1520-96-3	Perylene-d12	1670000	24.992			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	350	AB		4.90	ug/Kg
000119-61-9	Benzophenone	290	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	JB		18.1	ug/Kg
000077-94-1	Butyl citrate	120	J		19.6	ug/Kg
000103-23-1	Hexanedioic acid, bis(2-ethylhexyl	160	J		20.7	ug/Kg
074685-33-9	3-Eicosene, (E)-	75.3	J		21.3	ug/Kg

Raw Data: **BP024240.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024240.D	1	04/08/25 08:59	04/09/25 18:22	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM049868.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	84.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049868.D	1	04/08/25 08:59	04/09/25 15:05	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	26.0	U	26.0	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.6	U	28.6	200	ug/Kg
95-57-8	2-Chlorophenol	28.7	U	28.7	200	ug/Kg
95-48-7	2-Methylphenol	35.2	U	35.2	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.1	U	44.1	200	ug/Kg
98-86-2	Acetophenone	34.7	U	34.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.4	U	48.4	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.8	U	55.8	94.1	ug/Kg
67-72-1	Hexachloroethane	20.7	U	20.7	200	ug/Kg
98-95-3	Nitrobenzene	21.5	U	21.5	200	ug/Kg
78-59-1	Isophorone	38.6	U	38.6	200	ug/Kg
88-75-5	2-Nitrophenol	68.5	U	68.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.2	U	76.2	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.2	U	36.2	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.3	U	33.3	200	ug/Kg
91-20-3	Naphthalene	26.7	U	26.7	200	ug/Kg
106-47-8	4-Chloroaniline	41.6	UQ	41.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.8	U	29.8	200	ug/Kg
105-60-2	Caprolactam	61.3	U	61.3	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.8	U	33.8	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.1	U	30.1	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.3	U	23.3	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.2	U	34.2	200	ug/Kg
92-52-4	1,1-Biphenyl	25.6	U	25.6	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.5	U	26.5	200	ug/Kg
88-74-4	2-Nitroaniline	56.6	U	56.6	200	ug/Kg
131-11-3	Dimethylphthalate	31.9	U	31.9	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	84.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049868.D	1	04/08/25 08:59	04/09/25 15:05	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.0	U	34.0	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.5	U	39.5	200	ug/Kg
99-09-2	3-Nitroaniline	54.1	UQ	54.1	200	ug/Kg
83-32-9	Acenaphthene	25.1	U	25.1	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	26.7	U	26.7	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.9	U	58.9	200	ug/Kg
84-66-2	Diethylphthalate	33.3	U	33.3	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.4	U	31.4	200	ug/Kg
86-73-7	Fluorene	29.8	U	29.8	200	ug/Kg
100-01-6	4-Nitroaniline	75.5	U	75.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.7	U	38.7	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.7	U	32.7	200	ug/Kg
118-74-1	Hexachlorobenzene	29.8	U	29.8	200	ug/Kg
1912-24-9	Atrazine	40.0	U	40.0	200	ug/Kg
87-86-5	Pentachlorophenol	60.4	U	60.4	390	ug/Kg
85-01-8	Phenanthrene	24.6	U	24.6	200	ug/Kg
120-12-7	Anthracene	39.2	U	39.2	200	ug/Kg
86-74-8	Carbazole	36.7	U	36.7	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.4	U	56.4	200	ug/Kg
206-44-0	Fluoranthene	35.3	U	35.3	200	ug/Kg
129-00-0	Pyrene	42.4	U	42.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	84.0	U	84.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.2	U	43.2	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.1	U	27.1	200	ug/Kg
218-01-9	Chrysene	86.4	J	23.4	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.6	U	69.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	J	22.4	200	ug/Kg

Raw Data: **BM049868.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	84.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049868.D	1	04/08/25 08:59	04/09/25 15:05	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	J	26.4	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.7	U	34.7	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.2	U	34.2	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.2	U	32.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.2	U	30.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.1	U	30.1	200	ug/Kg
123-91-1	1,4-Dioxane	53.2	U	53.2	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.2	U	32.2	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	152		30 (18) - 130 (112)	102%	SPK: 150
13127-88-3	Phenol-d6	155		30 (15) - 130 (107)	104%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (18) - 130 (107)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		30 (20) - 130 (109)	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	177		30 (10) - 130 (116)	118%	SPK: 150
1718-51-0	Terphenyl-d14	109		30 (10) - 130 (105)	109%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	322000	7.781			
1146-65-2	Naphthalene-d8	1150000	10.575			
15067-26-2	Acenaphthene-d10	771000	14.421			
1517-22-2	Phenanthrene-d10	1530000	17.162			
1719-03-5	Chrysene-d12	1430000	21.397			
1520-96-3	Perylene-d12	1580000	24.397			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	530	AB		4.90	ug/Kg
000119-61-9	Benzophenone	410	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	450	JB		18.1	ug/Kg
000057-11-4	Octadecanoic acid	140	JB		19.3	ug/Kg
000297-03-0	Cyclotetracosane	160	J		21.1	ug/Kg

Raw Data: **BM049868.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	84.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049868.D	1	04/08/25 08:59	04/09/25 15:05	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024252.D	1	04/08/25 11:55	04/10/25 14:36	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.2	ug/L
108-95-2	Phenol	0.93	U	0.93	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.83	U	0.83	5.10	ug/L
95-57-8	2-Chlorophenol	0.59	U	0.59	5.10	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.10	ug/L
98-86-2	Acetophenone	0.76	U	0.76	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.60	ug/L
67-72-1	Hexachloroethane	0.66	U	0.66	5.10	ug/L
98-95-3	Nitrobenzene	0.78	U	0.78	5.10	ug/L
78-59-1	Isophorone	0.77	U	0.77	5.10	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.69	U	0.69	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.53	U	0.53	5.10	ug/L
91-20-3	Naphthalene	0.51	U	0.51	5.10	ug/L
106-47-8	4-Chloroaniline	0.86	UQ	0.86	5.10	ug/L
87-68-3	Hexachlorobutadiene	0.55	U	0.55	5.10	ug/L
105-60-2	Caprolactam	1.20	U	1.20	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.60	U	0.60	5.10	ug/L
91-57-6	2-Methylnaphthalene	0.57	U	0.57	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	UQ	3.70	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.52	U	0.52	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	0.63	U	0.63	5.10	ug/L
92-52-4	1,1-Biphenyl	0.54	U	0.54	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.62	U	0.62	5.10	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.10	ug/L
131-11-3	Dimethylphthalate	0.62	U	0.62	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024252.D	1	04/08/25 11:55	04/10/25 14:36	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.77	U	0.77	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	0.94	U	0.94	5.10	ug/L
99-09-2	3-Nitroaniline	1.10	UQ	1.10	5.10	ug/L
83-32-9	Acenaphthene	0.56	U	0.56	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.10	U	6.10	10.2	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.2	ug/L
132-64-9	Dibenzofuran	0.62	U	0.62	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.10	ug/L
84-66-2	Diethylphthalate	0.70	U	0.70	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.69	U	0.69	5.10	ug/L
86-73-7	Fluorene	0.64	U	0.64	5.10	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.59	U	0.59	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.41	U	0.41	5.10	ug/L
118-74-1	Hexachlorobenzene	0.53	U	0.53	5.10	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.10	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.2	ug/L
85-01-8	Phenanthrene	0.51	U	0.51	5.10	ug/L
120-12-7	Anthracene	0.62	U	0.62	5.10	ug/L
86-74-8	Carbazole	0.73	U	0.73	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.10	ug/L
206-44-0	Fluoranthene	0.84	U	0.84	5.10	ug/L
129-00-0	Pyrene	0.51	U	0.51	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.00	U	2.00	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	0.95	UQ	0.95	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.46	U	0.46	5.10	ug/L
218-01-9	Chrysene	0.45	U	0.45	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.50	U	0.50	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024252.D	1	04/08/25 11:55	04/10/25 14:36	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.49	U	0.49	5.10	ug/L
50-32-8	Benzo(a)pyrene	0.56	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.60	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.68	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.70	U	0.70	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	5.10	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.73	U	0.73	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	37.1		15 (10) - 110 (139)	25%	SPK: 150
13127-88-3	Phenol-d6	23.0		15 (10) - 110 (134)	15%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.7		30 (49) - 130 (133)	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.4		30 (52) - 130 (132)	61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.8		15 (44) - 110 (137)	56%	SPK: 150
1718-51-0	Terphenyl-d14	58.4		30 (48) - 130 (125)	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	263000	7.74			
1146-65-2	Naphthalene-d8	1030000	10.516			
15067-26-2	Acenaphthene-d10	601000	14.369			
1517-22-2	Phenanthrene-d10	1140000	17.175			
1719-03-5	Chrysene-d12	1210000	21.616			
1520-96-3	Perylene-d12	1470000	24.974			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.60	AB		4.90	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	2.30	J		8.37	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	2.80	J		9.35	ug/L
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	4.70	J		9.41	ug/L
000824-90-8	1-Phenyl-1-butene	3.50	J		9.92	ug/L
000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	24.4	J		10.3	ug/L
000119-61-9	Benzophenone	11.1	J		15.8	ug/L

Raw Data: **BP024252.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024252.D	1	04/08/25 11:55	04/10/25 14:36	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000057-10-3	n-Hexadecanoic acid	17.7	J		18.1	ug/L
000057-11-4	Octadecanoic acid	20.8	J		19.4	ug/L
000077-94-1	Butyl citrate	8.90	J		19.6	ug/L
015594-90-8	1-Heneicosanol	10.5	J		21.3	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024253.D	1	04/08/25 11:55	04/10/25 15:17	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.3	ug/L
108-95-2	Phenol	0.94	U	0.94	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.84	U	0.84	5.20	ug/L
95-57-8	2-Chlorophenol	0.60	U	0.60	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.20	ug/L
98-86-2	Acetophenone	0.76	U	0.76	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	0.67	U	0.67	5.20	ug/L
98-95-3	Nitrobenzene	0.78	U	0.78	5.20	ug/L
78-59-1	Isophorone	0.77	U	0.77	5.20	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.70	U	0.70	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.54	U	0.54	5.20	ug/L
91-20-3	Naphthalene	0.52	U	0.52	5.20	ug/L
106-47-8	4-Chloroaniline	0.87	UQ	0.87	5.20	ug/L
87-68-3	Hexachlorobutadiene	0.56	U	0.56	5.20	ug/L
105-60-2	Caprolactam	1.20	U	1.20	10.3	ug/L
59-50-7	4-Chloro-3-methylphenol	0.61	U	0.61	5.20	ug/L
91-57-6	2-Methylnaphthalene	0.58	U	0.58	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	UQ	3.70	10.3	ug/L
88-06-2	2,4,6-Trichlorophenol	0.53	U	0.53	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	0.64	U	0.64	5.20	ug/L
92-52-4	1,1-Biphenyl	0.55	U	0.55	5.20	ug/L
91-58-7	2-Chloronaphthalene	0.63	U	0.63	5.20	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.20	ug/L
131-11-3	Dimethylphthalate	0.63	U	0.63	5.20	ug/L

Raw Data: **BP024253.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024253.D	1	04/08/25 11:55	04/10/25 15:17	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.77	U	0.77	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	0.95	U	0.95	5.20	ug/L
99-09-2	3-Nitroaniline	1.10	UQ	1.10	5.20	ug/L
83-32-9	Acenaphthene	0.57	U	0.57	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.20	U	6.20	10.3	ug/L
100-02-7	4-Nitrophenol	2.50	U	2.50	10.3	ug/L
132-64-9	Dibenzofuran	0.63	U	0.63	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
84-66-2	Diethylphthalate	0.71	U	0.71	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.70	U	0.70	5.20	ug/L
86-73-7	Fluorene	0.65	U	0.65	5.20	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.00	U	3.00	10.3	ug/L
86-30-6	n-Nitrosodiphenylamine	0.60	U	0.60	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.41	U	0.41	5.20	ug/L
118-74-1	Hexachlorobenzene	0.54	U	0.54	5.20	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.20	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.3	ug/L
85-01-8	Phenanthrene	0.52	U	0.52	5.20	ug/L
120-12-7	Anthracene	0.63	U	0.63	5.20	ug/L
86-74-8	Carbazole	0.74	U	0.74	5.20	ug/L
84-74-2	Di-n-butylphthalate	4.10	J	1.30	5.20	ug/L
206-44-0	Fluoranthene	0.85	U	0.85	5.20	ug/L
129-00-0	Pyrene	0.52	U	0.52	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.00	U	2.00	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	0.96	UQ	0.96	10.3	ug/L
56-55-3	Benzo(a)anthracene	0.46	U	0.46	5.20	ug/L
218-01-9	Chrysene	0.45	U	0.45	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	0.51	U	0.51	5.20	ug/L

Raw Data: **BP024253.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024253.D	1	04/08/25 11:55	04/10/25 15:17	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.49	U	0.49	5.20	ug/L
50-32-8	Benzo(a)pyrene	0.57	U	0.57	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	U	0.61	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.69	U	0.69	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	0.71	U	0.71	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.54	U	0.54	5.20	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.74	U	0.74	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	68.5		15 (10) - 110 (139)	46%	SPK: 150
13127-88-3	Phenol-d6	40.8		15 (10) - 110 (134)	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.7		30 (49) - 130 (133)	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.1		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	172	*	15 (44) - 110 (137)	114%	SPK: 150
1718-51-0	Terphenyl-d14	96.3		30 (48) - 130 (125)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	263000	7.74			
1146-65-2	Naphthalene-d8	1040000	10.516			
15067-26-2	Acenaphthene-d10	640000	14.375			
1517-22-2	Phenanthrene-d10	1290000	17.175			
1719-03-5	Chrysene-d12	1390000	21.622			
1520-96-3	Perylene-d12	1580000	24.992			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.90	AB		4.90	ug/L
000149-57-5	Hexanoic acid, 2-ethyl-	31.1	J		9.07	ug/L
65-85-0	Benzoic acid	5.00	J		9.78	ug/L
000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	8.90	J		10.3	ug/L
000143-22-6	Ethanol, 2-[2-(2-butoxyethoxy)etho	2.30	J		13.9	ug/L
1000140-77-5	Pentanoic acid, 2,2,4-trimethyl-3-	5.70	J		15.2	ug/L
000119-61-9	Benzophenone	3.60	J		15.8	ug/L

Raw Data: **BP024253.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024253.D	1	04/08/25 11:55	04/10/25 15:17	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000084-69-5	1,2-Benzenedicarboxylic acid, bis(	2.50	J		17.5	ug/L
001962-75-0	1,4-Dibutyl benzene-1,4-dicarboxyl	4.60	J		17.8	ug/L
000057-10-3	n-Hexadecanoic acid	31.2	J		18.1	ug/L
000077-94-1	Butyl citrate	5.80	J		19.3	ug/L
000057-11-4	Octadecanoic acid	51.5	J		19.5	ug/L
1000324-60-5	Adipic acid, butyl 3-pentyl ester	69.5	J		19.6	ug/L
018835-33-1	1-Hexacosene	3.20	J		21.3	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024239.D	1	04/08/25 11:55	04/09/25 17:41	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.3	ug/L
108-95-2	Phenol	0.94	U	0.94	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.84	U	0.84	5.20	ug/L
95-57-8	2-Chlorophenol	0.60	U	0.60	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.20	ug/L
98-86-2	Acetophenone	0.76	U	0.76	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	0.67	U	0.67	5.20	ug/L
98-95-3	Nitrobenzene	0.78	U	0.78	5.20	ug/L
78-59-1	Isophorone	0.77	U	0.77	5.20	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.70	U	0.70	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.54	U	0.54	5.20	ug/L
91-20-3	Naphthalene	0.52	U	0.52	5.20	ug/L
106-47-8	4-Chloroaniline	0.87	UQ	0.87	5.20	ug/L
87-68-3	Hexachlorobutadiene	0.56	U	0.56	5.20	ug/L
105-60-2	Caprolactam	1.20	U	1.20	10.3	ug/L
59-50-7	4-Chloro-3-methylphenol	0.61	U	0.61	5.20	ug/L
91-57-6	2-Methylnaphthalene	0.58	U	0.58	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	UQ	3.70	10.3	ug/L
88-06-2	2,4,6-Trichlorophenol	0.53	U	0.53	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	0.64	U	0.64	5.20	ug/L
92-52-4	1,1-Biphenyl	0.55	U	0.55	5.20	ug/L
91-58-7	2-Chloronaphthalene	0.63	U	0.63	5.20	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.20	ug/L
131-11-3	Dimethylphthalate	0.63	U	0.63	5.20	ug/L

Raw Data: **BP024239.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024239.D	1	04/08/25 11:55	04/09/25 17:41	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.77	U	0.77	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	0.95	U	0.95	5.20	ug/L
99-09-2	3-Nitroaniline	1.10	UQ	1.10	5.20	ug/L
83-32-9	Acenaphthene	0.57	U	0.57	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.20	U	6.20	10.3	ug/L
100-02-7	4-Nitrophenol	2.50	U	2.50	10.3	ug/L
132-64-9	Dibenzofuran	0.63	U	0.63	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
84-66-2	Diethylphthalate	0.71	U	0.71	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.70	U	0.70	5.20	ug/L
86-73-7	Fluorene	0.65	U	0.65	5.20	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.00	U	3.00	10.3	ug/L
86-30-6	n-Nitrosodiphenylamine	0.60	U	0.60	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.41	U	0.41	5.20	ug/L
118-74-1	Hexachlorobenzene	0.54	U	0.54	5.20	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.20	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.3	ug/L
85-01-8	Phenanthrene	0.52	U	0.52	5.20	ug/L
120-12-7	Anthracene	0.63	U	0.63	5.20	ug/L
86-74-8	Carbazole	0.74	U	0.74	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.30	U	1.30	5.20	ug/L
206-44-0	Fluoranthene	0.85	U	0.85	5.20	ug/L
129-00-0	Pyrene	0.52	U	0.52	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.00	U	2.00	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	0.96	UQ	0.96	10.3	ug/L
56-55-3	Benzo(a)anthracene	0.46	U	0.46	5.20	ug/L
218-01-9	Chrysene	0.45	U	0.45	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	0.51	U	0.51	5.20	ug/L

Raw Data: **BP024239.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024239.D	1	04/08/25 11:55	04/09/25 17:41	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.49	U	0.49	5.20	ug/L
50-32-8	Benzo(a)pyrene	0.57	U	0.57	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	U	0.61	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.69	U	0.69	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	0.71	U	0.71	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.54	U	0.54	5.20	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.74	U	0.74	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	68.3		15 (10) - 110 (139)	46%	SPK: 150
13127-88-3	Phenol-d6	38.6		15 (10) - 110 (134)	26%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (49) - 130 (133)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.4		30 (52) - 130 (132)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	172	*	15 (44) - 110 (137)	115%	SPK: 150
1718-51-0	Terphenyl-d14	104		30 (48) - 130 (125)	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	236000	7.74			
1146-65-2	Naphthalene-d8	911000	10.516			
15067-26-2	Acenaphthene-d10	559000	14.381			
1517-22-2	Phenanthrene-d10	1170000	17.175			
1719-03-5	Chrysene-d12	1380000	21.616			
1520-96-3	Perylene-d12	1470000	24.992			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.40	AB		4.90	ug/L
082304-66-3	7,9-Di-tert-butyl-1-oxaspiro(4,5)d	4.20	J		17.9	ug/L
000693-71-0	trans-13-Octadecenoic acid	2.50	J		19.3	ug/L

Raw Data: **BP024239.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024239.D	1	04/08/25 11:55	04/09/25 17:41	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167509BL	PB167509BL	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	134	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	95.5	95		30 (18)	130 (107)
		2-Fluorobiphenyl	100	96.3	96		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	146	97		30 (10)	130 (116)
		Terphenyl-d14	100	112	112		30 (10)	130 (105)
PB167509BS	PB167509BS	2-Fluorophenol	150	127	85		30 (18)	130 (112)
		Phenol-d6	150	126	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.2	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	89.2	89		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	145	97		30 (10)	130 (116)
		Terphenyl-d14	100	101	101		30 (10)	130 (105)
Q1744-01MS	B-158-SB01MS	2-Fluorophenol	150	123	82		30 (18)	130 (112)
		Phenol-d6	150	125	83		30 (15)	130 (107)
		Nitrobenzene-d5	100	82.9	83		30 (18)	130 (107)
		2-Fluorobiphenyl	100	81.7	82		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	89.4	89		30 (10)	130 (105)
Q1744-01MSD	B-158-SB01MSD	2-Fluorophenol	150	127	85		30 (18)	130 (112)
		Phenol-d6	150	130	87		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.2	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	85.2	85		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	141	94		30 (10)	130 (116)
		Terphenyl-d14	100	93.3	93		30 (10)	130 (105)
Q1746-01	B-149-SB01	2-Fluorophenol	150	107	71		30 (18)	130 (112)
		Phenol-d6	150	105	70		30 (15)	130 (107)
		Nitrobenzene-d5	100	73.2	73		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.6	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	103	69		30 (10)	130 (116)
		Terphenyl-d14	100	62.9	63		30 (10)	130 (105)
Q1746-03	B-149-SB02	2-Fluorophenol	150	152	102		30 (18)	130 (112)
		Phenol-d6	150	155	104		30 (15)	130 (107)
		Nitrobenzene-d5	100	105	105		30 (18)	130 (107)
		2-Fluorobiphenyl	100	101	101		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	177	118		30 (10)	130 (116)
		Terphenyl-d14	100	109	109		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167521BL	PB167521BL	2-Fluorophenol	150	128	86		15 (10)	110 (139)
		Phenol-d6	150	125	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	88.3	88		30 (49)	130 (133)
		2-Fluorobiphenyl	100	89.2	89		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	136	91		15 (44)	110 (137)
		Terphenyl-d14	100	108	108		30 (48)	130 (125)
PB167521BS	PB167521BS	2-Fluorophenol	150	119	79		15 (10)	110 (139)
		Phenol-d6	150	118	78		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.5	79		30 (49)	130 (133)
		2-Fluorobiphenyl	100	82.6	83		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	94.4	94		30 (48)	130 (125)
PB167521BSD	PB167521BSD	2-Fluorophenol	150	125	83		15 (10)	110 (139)
		Phenol-d6	150	122	82		15 (10)	110 (134)
		Nitrobenzene-d5	100	84.5	84		30 (49)	130 (133)
		2-Fluorobiphenyl	100	84.4	84		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	136	91		15 (44)	110 (137)
		Terphenyl-d14	100	98.6	99		30 (48)	130 (125)
Q1746-05	B-158-GW01	2-Fluorophenol	150	37.1	25		15 (10)	110 (139)
		Phenol-d6	150	23.0	15		15 (10)	110 (134)
		Nitrobenzene-d5	100	65.7	66		30 (49)	130 (133)
		2-Fluorobiphenyl	100	61.4	61		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	83.8	56		15 (44)	110 (137)
		Terphenyl-d14	100	58.4	58		30 (48)	130 (125)
Q1746-06	B-149-GW01	2-Fluorophenol	150	68.5	46		15 (10)	110 (139)
		Phenol-d6	150	40.8	27		15 (10)	110 (134)
		Nitrobenzene-d5	100	99.7	100		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.1	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	172	114	*	15 (44)	110 (137)
		Terphenyl-d14	100	96.3	96		30 (48)	130 (125)
Q1746-07	EB-2025-4-7	2-Fluorophenol	150	68.3	46		15 (10)	110 (139)
		Phenol-d6	150	38.6	26		15 (10)	110 (134)
		Nitrobenzene-d5	100	105	105		30 (49)	130 (133)
		2-Fluorobiphenyl	100	92.4	92		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	172	115	*	15 (44)	110 (137)
		Terphenyl-d14	100	104	104		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1744-01MS		**Client Sample ID: B-158-SB01MS**						**DataFile: BM049865.D**			
Benzaldehyde	1800	0	1600	ug/Kg	89				20 (10)	160 (86)	
Phenol	1800	0	1900	ug/Kg	106				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94				70 (54)	130 (125)	
2-Chlorophenol	1800	0	1800	ug/Kg	100				70 (79)	130 (107)	
2-Methylphenol	1800	0	1900	ug/Kg	106				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1800	0	1800	ug/Kg	100				70 (65)	130 (110)	
Acetophenone	1800	0	1700	ug/Kg	94				70 (75)	130 (111)	
3+4-Methylphenols	1800	0	1900	ug/Kg	106				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1800	0	1800	ug/Kg	100				70 (59)	130 (119)	
Hexachloroethane	1800	0	1700	ug/Kg	94				20 (65)	160 (117)	
Nitrobenzene	1800	0	1700	ug/Kg	94				70 (70)	130 (119)	
Isophorone	1800	0	1900	ug/Kg	106				70 (76)	130 (122)	
2-Nitrophenol	1800	0	1700	ug/Kg	94				70 (54)	130 (145)	
2,4-Dimethylphenol	1800	0	2600	ug/Kg	144	*			70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1800	0	1700	ug/Kg	94				70 (68)	130 (112)	
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (118)	
Naphthalene	1800	0	1700	ug/Kg	94				70 (72)	130 (110)	
4-Chloroaniline	1800	0	410	ug/Kg	23	*			70 (10)	130 (91)	
Hexachlorobutadiene	1800	0	1700	ug/Kg	94				70 (66)	130 (114)	
Caprolactam	1800	0	1700	ug/Kg	94				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1800	0	1800	ug/Kg	100				70 (57)	130 (132)	
2-Methylnaphthalene	1800	0	1600	ug/Kg	89				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3700	0	6500	ug/Kg	176	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	1800	0	1700	ug/Kg	94				70 (75)	130 (113)	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
2-Nitroaniline	1800	0	1800	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1800	0	1700	ug/Kg	94				70 (70)	130 (113)	
Acenaphthylene	1800	0	1900	ug/Kg	106				70 (79)	130 (118)	
2,6-Dinitrotoluene	1800	0	1800	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	1800	0	500	ug/Kg	28	*			70 (30)	130 (99)	
Acenaphthene	1800	0	1700	ug/Kg	94				70 (70)	130 (121)	
2,4-Dinitrophenol	3700	0	3100	ug/Kg	84				20 (10)	160 (155)	
4-Nitrophenol	3700	0	3900	ug/Kg	105				20 (45)	160 (133)	
Dibenzofuran	1800	0	1700	ug/Kg	94				70 (72)	130 (110)	
2,4-Dinitrotoluene	1800	0	1900	ug/Kg	106				70 (55)	130 (128)	
Diethylphthalate	1800	0	1700	ug/Kg	94				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (71)	130 (108)	
Fluorene	1800	0	1800	ug/Kg	100				70 (68)	130 (116)	
4-Nitroaniline	1800	0	1600	ug/Kg	89				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1800	0	1700	ug/Kg	94				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1800	0	1800	ug/Kg	100				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1800	0	1700	ug/Kg	94				70 (65)	130 (121)	
Hexachlorobenzene	1800	0	1800	ug/Kg	100				70 (67)	130 (118)	
Atrazine	1800	0	2500	ug/Kg	139	*			70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3700	0	3600	ug/Kg	97				20 (47)	160 (128)	
Phenanthrene	1800	0	1800	ug/Kg	100				70 (52)	130 (128)	
Anthracene	1800	0	1800	ug/Kg	100				70 (62)	130 (124)	
Carbazole	1800	0	1800	ug/Kg	100				70 (59)	130 (119)	
Di-n-butylphthalate	1800	0	1700	ug/Kg	94				70 (69)	130 (118)	
Fluoranthene	1800	0	1800	ug/Kg	100				70 (44)	130 (125)	
Pyrene	1800	0	1700	ug/Kg	94				70 (26)	130 (142)	
Butylbenzylphthalate	1800	0	1600	ug/Kg	89				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1800	0	550	ug/Kg	31	*			70 (33)	130 (116)	
Benzo(a)anthracene	1800	81.9	1800	ug/Kg	95				70 (71)	130 (114)	
Chrysene	1800	160	1900	ug/Kg	97				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1800	0	1700	ug/Kg	94				70 (42)	130 (169)	
Di-n-octyl phthalate	1800	0	1600	ug/Kg	89				70 (23)	130 (175)	
Benzo(b)fluoranthene	1800	160	1900	ug/Kg	97				70 (67)	130 (121)	
Benzo(k)fluoranthene	1800	160	1900	ug/Kg	97				70 (57)	130 (134)	
Benzo(a)pyrene	1800	0	1900	ug/Kg	106				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1800	0	1800	ug/Kg	100				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1800	0	1800	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1800	0	1700	ug/Kg	94				70 (69)	130 (124)	
1,4-Dioxane	1800	0	1600	ug/Kg	89				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1800	0	1700	ug/Kg	94				70 (69)	130 (112)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1744-01MSD		**Client Sample ID: B-158-SB01MSD**						**DataFile: BM049866.D**			
Benzaldehyde	1800	0	1600	ug/Kg	89		0		20 (10)	160 (86)	30 (20)
Phenol	1800	0	1900	ug/Kg	106		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1800	0	1800	ug/Kg	100		6		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1800	0	1900	ug/Kg	106		6		70 (79)	130 (107)	30 (20)
2-Methylphenol	1800	0	2000	ug/Kg	111		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1800	0	1900	ug/Kg	106		6		70 (65)	130 (110)	30 (20)
Acetophenone	1800	0	1800	ug/Kg	100		6		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1800	0	2000	ug/Kg	111		5		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1800	0	1900	ug/Kg	106		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	1800	0	1800	ug/Kg	100		6		20 (65)	160 (117)	30 (20)
Nitrobenzene	1800	0	1800	ug/Kg	100		6		70 (70)	130 (119)	30 (20)
Isophorone	1800	0	1900	ug/Kg	106		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1800	0	1800	ug/Kg	100		6		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1800	0	2700	ug/Kg	150	*	4		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1800	0	1800	ug/Kg	100		6		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (118)	30 (20)
Naphthalene	1800	0	1700	ug/Kg	94		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1800	0	450	ug/Kg	25	*	8		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1800	0	1800	ug/Kg	100		6		70 (66)	130 (114)	30 (20)
Caprolactam	1800	0	1800	ug/Kg	100		6		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1800	0	1900	ug/Kg	106		6		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1800	0	1600	ug/Kg	89		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3700	0	6800	ug/Kg	184	*	4		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1800	0	1800	ug/Kg	100		6		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1800	0	1800	ug/Kg	100		6		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1800	0	1900	ug/Kg	106		6		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1800	0	1800	ug/Kg	100		6		70 (70)	130 (113)	30 (20)
Acenaphthylene	1800	0	1900	ug/Kg	106		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1800	0	1900	ug/Kg	106		6		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1800	0	510	ug/Kg	28	*	0		70 (30)	130 (99)	30 (20)
Acenaphthene	1800	0	1800	ug/Kg	100		6		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3700	0	3200	ug/Kg	86		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3700	0	4100	ug/Kg	111		6		20 (45)	160 (133)	30 (20)
Dibenzofuran	1800	0	1700	ug/Kg	94		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1800	0	2000	ug/Kg	111		5		70 (55)	130 (128)	30 (20)
Diethylphthalate	1800	0	1800	ug/Kg	100		6		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (71)	130 (108)	30 (20)
Fluorene	1800	0	1800	ug/Kg	100		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1800	0	1700	ug/Kg	94		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1800	0	1800	ug/Kg	100		6		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1800	0	1800	ug/Kg	100		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1800	0	1800	ug/Kg	100		6		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1800	0	1800	ug/Kg	100		0		70 (67)	130 (118)	30 (20)
Atrazine	1800	0	2600	ug/Kg	144	*	4		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3700	0	3700	ug/Kg	100		3		20 (47)	160 (128)	30 (20)
Phenanthrene	1800	0	1800	ug/Kg	100		0		70 (52)	130 (128)	30 (20)
Anthracene	1800	0	1900	ug/Kg	106		6		70 (62)	130 (124)	30 (20)
Carbazole	1800	0	1900	ug/Kg	106		6		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1800	0	1800	ug/Kg	100		6		70 (69)	130 (118)	30 (20)
Fluoranthene	1800	0	1900	ug/Kg	106		6		70 (44)	130 (125)	30 (20)
Pyrene	1800	0	1800	ug/Kg	100		6		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1800	0	1700	ug/Kg	94		5		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1800	0	580	ug/Kg	32	*	3		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1800	81.9	1900	ug/Kg	101		6		70 (71)	130 (114)	30 (20)
Chrysene	1800	160	1900	ug/Kg	97		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1800	0	1700	ug/Kg	94		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1800	0	1700	ug/Kg	94		5		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1800	160	1900	ug/Kg	97		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1800	160	2000	ug/Kg	102		5		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1800	0	2000	ug/Kg	111		5		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106		6		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1800	0	1900	ug/Kg	106		6		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1800	0	1800	ug/Kg	100		6		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1800	0	1800	ug/Kg	100		6		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1800	0	1600	ug/Kg	89		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1800	0	1800	ug/Kg	100		6		70 (69)	130 (112)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049861.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167521BS	Benzaldehyde	50	35.7	ug/L	71				20 (10)	160 (162)	
	Phenol	50	42.1	ug/L	84				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	41.4	ug/L	83				70 (62)	130 (103)	
	2-Chlorophenol	50	41.6	ug/L	83				70 (70)	130 (117)	
	2-Methylphenol	50	44.0	ug/L	88				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	43.2	ug/L	86				70 (65)	130 (100)	
	Acetophenone	50	41.0	ug/L	82				70 (60)	130 (104)	
	3+4-Methylphenols	50	43.6	ug/L	87				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	42.8	ug/L	86				70 (57)	130 (107)	
	Hexachloroethane	50	41.0	ug/L	82				20 (76)	160 (118)	
	Nitrobenzene	50	40.6	ug/L	81				70 (58)	130 (106)	
	Isophorone	50	43.6	ug/L	87				70 (61)	130 (102)	
	2-Nitrophenol	50	40.0	ug/L	80				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	60.6	ug/L	121				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.6	ug/L	83				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	41.7	ug/L	83				70 (66)	130 (115)	
	Naphthalene	50	39.4	ug/L	79				70 (64)	130 (107)	
	4-Chloroaniline	50	21.2	ug/L	42		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	41.2	ug/L	82				70 (69)	130 (101)	
	Caprolactam	50	39.5	ug/L	79				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	41.8	ug/L	84				70 (65)	130 (114)	
	2-Methylnaphthalene	50	36.8	ug/L	74				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	180	ug/L	180		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	43.1	ug/L	86				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	43.2	ug/L	86				70 (70)	130 (106)	
	1,1-Biphenyl	50	41.6	ug/L	83				70 (72)	130 (98)	
	2-Chloronaphthalene	50	42.2	ug/L	84				70 (59)	130 (106)	
	2-Nitroaniline	50	43.8	ug/L	88				70 (73)	130 (114)	
	Dimethylphthalate	50	42.1	ug/L	84				70 (64)	130 (103)	
	Acenaphthylene	50	45.7	ug/L	91				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	43.4	ug/L	87				70 (64)	130 (110)	
	3-Nitroaniline	50	22.2	ug/L	44		*		70 (28)	130 (100)	
	Acenaphthene	50	41.7	ug/L	83				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	80.2	ug/L	80				20 (36)	160 (166)	
	4-Nitrophenol	100	92.4	ug/L	92				20 (45)	160 (147)	
	Dibenzofuran	50	40.7	ug/L	81				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	45.8	ug/L	92				70 (60)	130 (115)	
	Diethylphthalate	50	41.2	ug/L	82				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	43.1	ug/L	86				70 (61)	130 (104)	
	Fluorene	50	42.7	ug/L	85				70 (64)	130 (107)	
	4-Nitroaniline	50	41.6	ug/L	83				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	43.6	ug/L	87				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	44.3	ug/L	89				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.4	ug/L	87				70 (73)	130 (103)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049861.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167521BS	Hexachlorobenzene	50	43.8	ug/L	88				70 (73)	130 (106)	
	Atrazine	50	62.2	ug/L	124				70 (76)	130 (120)	
	Pentachlorophenol	100	87.0	ug/L	87				20 (47)	160 (114)	
	Phenanthrene	50	43.8	ug/L	88				70 (62)	130 (109)	
	Anthracene	50	45.4	ug/L	91				70 (65)	130 (110)	
	Carbazole	50	43.7	ug/L	87				70 (62)	130 (106)	
	Di-n-butylphthalate	50	41.8	ug/L	84				70 (64)	130 (106)	
	Fluoranthene	50	42.1	ug/L	84				70 (64)	130 (110)	
	Pyrene	50	43.8	ug/L	88				70 (71)	130 (103)	
	Butylbenzylphthalate	50	42.3	ug/L	85				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	23.5	ug/L	47		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	44.0	ug/L	88				70 (62)	130 (107)	
	Chrysene	50	43.1	ug/L	86				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	41.7	ug/L	83				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	40.0	ug/L	80				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	41.9	ug/L	84				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	44.5	ug/L	89				70 (77)	130 (105)	
	Benzo(a)pyrene	50	46.4	ug/L	93				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	44.5	ug/L	89				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	44.0	ug/L	88				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	42.3	ug/L	85				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	42.4	ug/L	85				70 (72)	130 (101)	
	1,4-Dioxane	50	32.1	ug/L	64				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	42.1	ug/L	84				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167521BSD	Benzaldehyde	50	37.4	ug/L	75	5			20 (10)	160 (162)	20 (20)
	Phenol	50	44.7	ug/L	89	6			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	43.9	ug/L	88	6			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	44.4	ug/L	89	7			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	46.6	ug/L	93	6			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	45.5	ug/L	91	5			70 (65)	130 (100)	20 (20)
	Acetophenone	50	43.3	ug/L	87	5			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.7	ug/L	91	5			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	44.1	ug/L	88	3			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	43.4	ug/L	87	6			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	43.6	ug/L	87	7			70 (58)	130 (106)	20 (20)
	Isophorone	50	46.7	ug/L	93	7			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	43.4	ug/L	87	8			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	63.9	ug/L	128	5			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	44.3	ug/L	89	6			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	44.3	ug/L	89	6			70 (66)	130 (115)	20 (20)
	Naphthalene	50	42.1	ug/L	84	7			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	25.5	ug/L	51	18	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	44.3	ug/L	89	7			70 (69)	130 (101)	20 (20)
	Caprolactam	50	42.2	ug/L	84	7			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	43.7	ug/L	87	4			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	39.1	ug/L	78	6			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	190	ug/L	190	5	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	44.4	ug/L	89	3			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	45.0	ug/L	90	4			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	43.1	ug/L	86	4			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	43.6	ug/L	87	3			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	45.9	ug/L	92	5			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	43.8	ug/L	88	4			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	47.0	ug/L	94	3			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	45.4	ug/L	91	5			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	26.5	ug/L	53	18	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	42.9	ug/L	86	3			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	84.7	ug/L	85	5			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	99.6	ug/L	100	7			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	41.8	ug/L	84	3			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	48.1	ug/L	96	5			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	42.9	ug/L	86	4			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.7	ug/L	89	4			70 (61)	130 (104)	20 (20)
	Fluorene	50	44.5	ug/L	89	4			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	44.6	ug/L	89	7			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	45.4	ug/L	91	4			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	45.8	ug/L	92	3			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	44.9	ug/L	90	3			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167521BSD	Hexachlorobenzene	50	45.6	ug/L	91	4			70 (73)	130 (106)	20 (20)
	Atrazine	50	66.0	ug/L	132	6	*		70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	92.0	ug/L	92	6			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	45.9	ug/L	92	5			70 (62)	130 (109)	20 (20)
	Anthracene	50	47.6	ug/L	95	5			70 (65)	130 (110)	20 (20)
	Carbazole	50	46.1	ug/L	92	5			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	44.1	ug/L	88	5			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	45.0	ug/L	90	7			70 (64)	130 (110)	20 (20)
	Pyrene	50	45.9	ug/L	92	5			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	44.3	ug/L	89	5			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	25.9	ug/L	52	10	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	46.5	ug/L	93	6			70 (62)	130 (107)	20 (20)
	Chrysene	50	45.1	ug/L	90	5			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	44.1	ug/L	88	6			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	42.3	ug/L	85	6			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	45.0	ug/L	90	7			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	47.2	ug/L	94	6			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	49.1	ug/L	98	6			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	46.9	ug/L	94	5			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	46.2	ug/L	92	5			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	44.3	ug/L	89	5			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	44.4	ug/L	89	5			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	35.7	ug/L	71	11			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	43.7	ug/L	87	4			70 (63)	130 (116)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049947.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167509BS	Benzaldehyde	1700	1100	ug/Kg	65				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1600	ug/Kg	94				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	2200	ug/Kg	129				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	820	ug/Kg	48		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1500	ug/Kg	88				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5400	ug/Kg	164		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Acenaphthylene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1500	ug/Kg	88				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2900	ug/Kg	88				20 (37)	160 (128)	
	4-Nitrophenol	3300	3200	ug/Kg	97				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049947.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167509BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	2200	ug/Kg	129				70 (47)	130 (152)	
	Pentachlorophenol	3300	3100	ug/Kg	94				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1700	ug/Kg	100				70 (61)	130 (105)	
	Carbazole	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1600	ug/Kg	94				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1200	ug/Kg	71				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167509BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BM049877.D Lab Sample ID: PB167509BL

Instrument ID: BNA_M Date Extracted: 04/08/2025

Matrix: (soil/water) SOIL Date Analyzed: 04/10/2025

Level: (low/med) LOW Time Analyzed: 10:11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167509BS	PB167509BS	BM049947.D	04/16/2025
B-149-SB01	Q1746-01	BP024240.D	04/09/2025
B-158-SB01MS	Q1744-01MS	BM049865.D	04/09/2025
B-158-SB01MSD	Q1744-01MSD	BM049866.D	04/09/2025
B-149-SB02	Q1746-03	BM049868.D	04/09/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167521BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BM049860.D Lab Sample ID: PB167521BL

Instrument ID: BNA_M Date Extracted: 04/08/2025

Matrix: (soil/water) Water Date Analyzed: 04/09/2025

Level: (low/med) LOW Time Analyzed: 09:48

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167521BS	PB167521BS	BM049861.D	04/09/2025
PB167521BSD	PB167521BSD	BM049862.D	04/09/2025
B-158-GW01	Q1746-05	BP024252.D	04/10/2025
B-149-GW01	Q1746-06	BP024253.D	04/10/2025
EB-2025-4-7	Q1746-07	BP024239.D	04/09/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BM049847.D DFTPP Injection Date: 04/08/2025

Instrument ID: BNA_M DFTPP Injection Time: 12:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.1
68	Less than 2.0% of mass 69	0.3 (1.2) 1
69	Mass 69 relative abundance	26.5
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	34.9
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	12.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.3 (18.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM049848.D	04/08/2025	13:35
SSTDICC005	SSTDICC005	BM049849.D	04/08/2025	14:14
SSTDICC010	SSTDICC010	BM049850.D	04/08/2025	14:53
SSTDICC020	SSTDICC020	BM049851.D	04/08/2025	15:32
SSTDICCC040	SSTDICCC040	BM049852.D	04/08/2025	16:12
SSTDICC050	SSTDICC050	BM049853.D	04/08/2025	17:30
SSTDICC060	SSTDICC060	BM049854.D	04/08/2025	19:28
SSTDICC080	SSTDICC080	BM049855.D	04/08/2025	20:07

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BM049858.D DFTPP Injection Date: 04/09/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.8
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	28.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	35.4
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	11.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	13.8 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM049859.D	04/09/2025	09:09
PB167521BL	PB167521BL	BM049860.D	04/09/2025	09:48
PB167521BS	PB167521BS	BM049861.D	04/09/2025	10:27
PB167521BSD	PB167521BSD	BM049862.D	04/09/2025	11:06
B-158-SB01MS	Q1744-01MS	BM049865.D	04/09/2025	13:08
B-158-SB01MSD	Q1744-01MSD	BM049866.D	04/09/2025	13:47
B-149-SB02	Q1746-03	BM049868.D	04/09/2025	15:05

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BM049875.D DFTPP Injection Date: 04/10/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	25.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	33.2
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM049876.D	04/10/2025	09:32
PB167509BL	PB167509BL	BM049877.D	04/10/2025	10:11

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BM049943.D DFTPP Injection Date: 04/16/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	27.6
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	34.9
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.1
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.6 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM049944.D	04/16/2025	09:28
PB167509BS	PB167509BS	BM049947.D	04/16/2025	11:26

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BP024159.D DFTPP Injection Date: 03/12/2025

Instrument ID: BNA_P DFTPP Injection Time: 15:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.5
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.5
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (19.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024160.D	03/12/2025	16:17
SSTDICC005	SSTDICC005	BP024161.D	03/12/2025	16:57
SSTDICC010	SSTDICC010	BP024162.D	03/12/2025	17:38
SSTDICC020	SSTDICC020	BP024163.D	03/12/2025	18:19
SSTDICCC040	SSTDICCC040	BP024164.D	03/12/2025	19:00
SSTDICC050	SSTDICC050	BP024165.D	03/12/2025	19:41
SSTDICC060	SSTDICC060	BP024166.D	03/12/2025	20:21
SSTDICC080	SSTDICC080	BP024167.D	03/12/2025	21:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BP024227.D DFTPP Injection Date: 04/09/2025

Instrument ID: BNA_P DFTPP Injection Time: 08:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.2
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	34.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.3 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024228.D	04/09/2025	10:08
EB-2025-4-7	Q1746-07	BP024239.D	04/09/2025	17:41
B-149-SB01	Q1746-01	BP024240.D	04/09/2025	18:22

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BP024244.D DFTPP Injection Date: 04/10/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.8
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.5
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024245.D	04/10/2025	09:46
B-158-GW01	Q1746-05	BP024252.D	04/10/2025	14:36
B-149-GW01	Q1746-06	BP024253.D	04/10/2025	15:17

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/09/2025

Lab File ID: BM049859.D Time Analyzed: 09:09

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	296698	7.775	1015270	10.57	639621	14.42
	UPPER LIMIT	593396	8.275	2030540	11.069	1279240	14.922
	LOWER LIMIT	148349	7.275	507635	10.069	319811	13.922
	EPA SAMPLE NO.						
01	B-158-SB01MS	298114	7.78	1050150	10.57	691142	14.42
02	B-158-SB01MSD	285351	7.78	1005760	10.57	663787	14.42
03	B-149-SB02	322464	7.78	1148080	10.58	770952	14.42
04	PB167521BL	332281	7.78	1132680	10.57	701970	14.42
05	PB167521BS	336910	7.78	1172190	10.57	730256	14.42
06	PB167521BSD	335066	7.78	1150030	10.57	735598	14.42

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/09/2025

Lab File ID: BM049859.D Time Analyzed: 09:09

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1259630	17.163	1253560	21.398	1316820	24.397
	UPPER LIMIT	2519260	17.663	2507120	21.898	2633640	24.897
	LOWER LIMIT	629815	16.663	626780	20.898	658410	23.897
	EPA SAMPLE NO.						
01	B-158-SB01MS	1385050	17.16	1462180	21.40	1514540	24.39
02	B-158-SB01MSD	1342340	17.16	1401870	21.40	1461450	24.39
03	B-149-SB02	1525450	17.16	1431870	21.40	1579360	24.40
04	PB167521BL	1345530	17.16	1270010	21.40	1381060	24.39
05	PB167521BS	1422910	17.16	1400190	21.40	1421400	24.39
06	PB167521BSD	1446570	17.16	1438520	21.40	1424300	24.39

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/10/2025

Lab File ID: BM049876.D Time Analyzed: 09:32

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	319220	7.781	1042650	10.57	653251	14.42
	UPPER LIMIT	638440	8.281	2085300	11.074	1306500	14.921
	LOWER LIMIT	159610	7.281	521325	10.074	326626	13.921
	EPA SAMPLE NO.						
01	PB167509BL	304918	7.78	1031960	10.57	649646	14.42

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/10/2025

Lab File ID: BM049876.D Time Analyzed: 09:32

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1279700	17.162	1240970	21.397	1368350	24.397
	UPPER LIMIT	2559400	17.662	2481940	21.897	2736700	24.897
	LOWER LIMIT	639850	16.662	620485	20.897	684175	23.897
	EPA SAMPLE NO.						
01	PB167509BL	1225290	17.16	1173500	21.40	1306480	24.40

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/16/2025

Lab File ID: BM049944.D Time Analyzed: 09:28

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	390253	7.769	1356600	10.56	881748	14.42
	UPPER LIMIT	780506	8.269	2713200	11.063	1763500	14.916
	LOWER LIMIT	195127	7.269	678300	10.063	440874	13.916
	EPA SAMPLE NO.						
01	PB167509BS	335569	7.77	1154160	10.56	723173	14.42

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/16/2025

Lab File ID: BM049944.D Time Analyzed: 09:28

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1791610	17.163	1770470	21.403	1819920	24.409
	UPPER LIMIT	3583220	17.663	3540940	21.903	3639840	24.909
	LOWER LIMIT	895805	16.663	885235	20.903	909960	23.909
	EPA SAMPLE NO.						
01	PB167509BS	1408530	17.16	1396790	21.40	1468800	24.40

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/09/2025

Lab File ID: BP024228.D Time Analyzed: 10:08

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	293576	7.769	1173450	10.55	712048	14.40
	UPPER LIMIT	587152	8.269	2346900	11.052	1424100	14.904
	LOWER LIMIT	146788	7.269	586725	10.052	356024	13.904
	EPA SAMPLE NO.						
01	B-149-SB01	273538	7.74	1106820	10.52	675246	14.38
02	EB-2025-4-7	235704	7.74	911036	10.52	559100	14.38

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/09/2025

Lab File ID: BP024228.D Time Analyzed: 10:08

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1380060	17.222	1470280	21.651	1654290	25.033
	UPPER LIMIT	2760120	17.722	2940560	22.151	3308580	25.533
	LOWER LIMIT	690030	16.722	735140	21.151	827145	24.533
	EPA SAMPLE NO.						
01	B-149-SB01	1352000	17.18	1469550	21.62	1665460	24.99
02	EB-2025-4-7	1174140	17.18	1378630	21.62	1470680	24.99

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/10/2025

Lab File ID: BP024245.D Time Analyzed: 09:46

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	322953	7.746	1317780	10.53	792808	14.39
	UPPER LIMIT	645906	8.246	2635560	11.028	1585620	14.892
	LOWER LIMIT	161477	7.246	658890	10.028	396404	13.892
	EPA SAMPLE NO.						
01	B-158-GW01	262571	7.74	1031590	10.52	601225	14.37
02	B-149-GW01	262973	7.74	1043720	10.52	640452	14.38

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/10/2025

Lab File ID: BP024245.D Time Analyzed: 09:46

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1512090	17.192	1553360	21.645	1762600	25.009
	UPPER LIMIT	3024180	17.692	3106720	22.145	3525200	25.509
	LOWER LIMIT	756045	16.692	776680	21.145	881300	24.509
	EPA SAMPLE NO.						
01	B-158-GW01	1138230	17.18	1210780	21.62	1465710	24.97
02	B-149-GW01	1285270	17.18	1386090	21.62	1576980	24.99

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Raw Data: **BM049877.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BL	SDG No.:	Q1746
Lab Sample ID:	PB167509BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.1	U	58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.7	U	64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.0	U	52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

Raw Data: **BM049877.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BL	SDG No.:	Q1746
Lab Sample ID:	PB167509BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.0	U	50.0	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.1	U	64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.2	U	51.2	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.3	U	71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.1	U	59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

Raw Data: **BM049877.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BL	SDG No.:	Q1746
Lab Sample ID:	PB167509BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	134		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.5		30 (18) - 130 (107)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.3		30 (20) - 130 (109)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	146		30 (10) - 130 (116)	97%	SPK: 150
1718-51-0	Terphenyl-d14	112		30 (10) - 130 (105)	112%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	305000	7.775			
1146-65-2	Naphthalene-d8	1030000	10.569			
15067-26-2	Acenaphthene-d10	650000	14.421			
1517-22-2	Phenanthrene-d10	1230000	17.162			
1719-03-5	Chrysene-d12	1170000	21.397			
1520-96-3	Perylene-d12	1310000	24.397			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	350	A		4.89	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.1	ug/Kg
000057-11-4	Octadecanoic acid	81.3	J		19.3	ug/Kg

Raw Data: **BM049877.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167509BL			SDG No.:	Q1746
Lab Sample ID:	PB167509BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM049860.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BL	SDG No.:	Q1746
Lab Sample ID:	PB167521BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049860.D	1	04/08/25 11:55	04/09/25 09:48	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BL	SDG No.:	Q1746
Lab Sample ID:	PB167521BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049860.D	1	04/08/25 11:55	04/09/25 09:48	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BL	SDG No.:	Q1746
Lab Sample ID:	PB167521BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049860.D	1	04/08/25 11:55	04/09/25 09:48	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		15 (10) - 110 (139)	86%	SPK: 150
13127-88-3	Phenol-d6	125		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.3		30 (49) - 130 (133)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.2		30 (52) - 130 (132)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		15 (44) - 110 (137)	91%	SPK: 150
1718-51-0	Terphenyl-d14	108		30 (48) - 130 (125)	108%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	332000	7.775			
1146-65-2	Naphthalene-d8	1130000	10.569			
15067-26-2	Acenaphthene-d10	702000	14.416			
1517-22-2	Phenanthrene-d10	1350000	17.162			
1719-03-5	Chrysene-d12	1270000	21.397			
1520-96-3	Perylene-d12	1380000	24.391			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	9.20	A		4.89	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167521BL			SDG No.:	Q1746
Lab Sample ID:	PB167521BL			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049860.D	1	04/08/25 11:55	04/09/25 09:48	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM049947.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BS	SDG No.:	Q1746
Lab Sample ID:	PB167509BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049947.D	1	04/08/25 08:59	04/16/25 11:26	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1600		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1600		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	820		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5400	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1600		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

Raw Data: **BM049947.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BS	SDG No.:	Q1746
Lab Sample ID:	PB167509BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049947.D	1	04/08/25 08:59	04/16/25 11:26	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1100		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2900	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3200	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	2200		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3100	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1600		20.9	170	ug/Kg
120-12-7	Anthracene	1700		33.3	170	ug/Kg
86-74-8	Carbazole	1600		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BS	SDG No.:	Q1746
Lab Sample ID:	PB167509BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049947.D	1	04/08/25 08:59	04/16/25 11:26	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1200		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		30 (18) - 130 (112)	85%	SPK: 150
13127-88-3	Phenol-d6	126		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.2		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.2		30 (20) - 130 (109)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		30 (10) - 130 (116)	97%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (10) - 130 (105)	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	336000	7.769			
1146-65-2	Naphthalene-d8	1150000	10.563			
15067-26-2	Acenaphthene-d10	723000	14.416			
1517-22-2	Phenanthrene-d10	1410000	17.157			
1719-03-5	Chrysene-d12	1400000	21.404			
1520-96-3	Perylene-d12	1470000	24.403			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM049861.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BS	SDG No.:	Q1746
Lab Sample ID:	PB167521BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049861.D	1	04/08/25 11:55	04/09/25 10:27	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	35.7		3.90	10.0	ug/L
108-95-2	Phenol	42.1		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.4		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	41.6		0.58	5.00	ug/L
95-48-7	2-Methylphenol	44.0		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	43.2		1.30	5.00	ug/L
98-86-2	Acetophenone	41.0		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.6		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	42.8		1.40	2.50	ug/L
67-72-1	Hexachloroethane	41.0		0.65	5.00	ug/L
98-95-3	Nitrobenzene	40.6		0.76	5.00	ug/L
78-59-1	Isophorone	43.6		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	40.0		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	60.6		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.6		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	41.7		0.52	5.00	ug/L
91-20-3	Naphthalene	39.4		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	21.2		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.2		0.54	5.00	ug/L
105-60-2	Caprolactam	39.5		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.8		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	36.8		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	180	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	43.1		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	43.2		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	41.6		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.2		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	43.8		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	42.1		0.61	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BS	SDG No.:	Q1746
Lab Sample ID:	PB167521BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049861.D	1	04/08/25 11:55	04/09/25 10:27	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	45.7		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.4		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	22.2		1.10	5.00	ug/L
83-32-9	Acenaphthene	41.7		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	80.2	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	92.4	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	40.7		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.8		1.20	5.00	ug/L
84-66-2	Diethylphthalate	41.2		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	43.1		0.68	5.00	ug/L
86-73-7	Fluorene	42.7		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	41.6		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43.6		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	44.3		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.4		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	43.8		0.52	5.00	ug/L
1912-24-9	Atrazine	62.2		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	87.0	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	43.8		0.50	5.00	ug/L
120-12-7	Anthracene	45.4		0.61	5.00	ug/L
86-74-8	Carbazole	43.7		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	41.8		1.20	5.00	ug/L
206-44-0	Fluoranthene	42.1		0.82	5.00	ug/L
129-00-0	Pyrene	43.8		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	42.3		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	23.5		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.0		0.45	5.00	ug/L
218-01-9	Chrysene	43.1		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	41.7		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	40.0		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	41.9		0.49	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BS	SDG No.:	Q1746
Lab Sample ID:	PB167521BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049861.D	1	04/08/25 11:55	04/09/25 10:27	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.5		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	46.4		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	44.5		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	44.0		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.3		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	42.4		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	32.1		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.1		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	119		15 (10) - 110 (139)	79%	SPK: 150
13127-88-3	Phenol-d6	118		15 (10) - 110 (134)	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.5		30 (49) - 130 (133)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.6		30 (52) - 130 (132)	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	94.4		30 (48) - 130 (125)	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	337000	7.775			
1146-65-2	Naphthalene-d8	1170000	10.569			
15067-26-2	Acenaphthene-d10	730000	14.421			
1517-22-2	Phenanthrene-d10	1420000	17.162			
1719-03-5	Chrysene-d12	1400000	21.397			
1520-96-3	Perylene-d12	1420000	24.391			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM049862.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BSD	SDG No.:	Q1746
Lab Sample ID:	PB167521BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049862.D	1	04/08/25 11:55	04/09/25 11:06	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	37.4		3.90	10.0	ug/L
108-95-2	Phenol	44.7		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.9		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	44.4		0.58	5.00	ug/L
95-48-7	2-Methylphenol	46.6		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	45.5		1.30	5.00	ug/L
98-86-2	Acetophenone	43.3		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.7		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	44.1		1.40	2.50	ug/L
67-72-1	Hexachloroethane	43.4		0.65	5.00	ug/L
98-95-3	Nitrobenzene	43.6		0.76	5.00	ug/L
78-59-1	Isophorone	46.7		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	43.4		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	63.9		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.3		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.3		0.52	5.00	ug/L
91-20-3	Naphthalene	42.1		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	25.5		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.3		0.54	5.00	ug/L
105-60-2	Caprolactam	42.2		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.7		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.1		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	190	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	44.4		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.0		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	43.1		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.6		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	45.9		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	43.8		0.61	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BSD	SDG No.:	Q1746
Lab Sample ID:	PB167521BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049862.D	1	04/08/25 11:55	04/09/25 11:06	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	47.0		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	45.4		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	26.5		1.10	5.00	ug/L
83-32-9	Acenaphthene	42.9		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	84.7	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	99.6	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	41.8		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.1		1.20	5.00	ug/L
84-66-2	Diethylphthalate	42.9		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.7		0.68	5.00	ug/L
86-73-7	Fluorene	44.5		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	44.6		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	45.4		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.8		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	44.9		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	45.6		0.52	5.00	ug/L
1912-24-9	Atrazine	66.0		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	92.0	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	45.9		0.50	5.00	ug/L
120-12-7	Anthracene	47.6		0.61	5.00	ug/L
86-74-8	Carbazole	46.1		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.1		1.20	5.00	ug/L
206-44-0	Fluoranthene	45.0		0.82	5.00	ug/L
129-00-0	Pyrene	45.9		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	44.3		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	25.9		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.5		0.45	5.00	ug/L
218-01-9	Chrysene	45.1		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44.1		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	42.3		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.0		0.49	5.00	ug/L

Raw Data: **BM049862.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167521BSD	SDG No.:	Q1746
Lab Sample ID:	PB167521BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049862.D	1	04/08/25 11:55	04/09/25 11:06	PB167521

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	47.2		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	49.1		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.9		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.2		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.3		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	44.4		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	35.7		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.7		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		15 (10) - 110 (139)	83%	SPK: 150
13127-88-3	Phenol-d6	122		15 (10) - 110 (134)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.5		30 (49) - 130 (133)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.4		30 (52) - 130 (132)	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		15 (44) - 110 (137)	91%	SPK: 150
1718-51-0	Terphenyl-d14	98.6		30 (48) - 130 (125)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	335000	7.775			
1146-65-2	Naphthalene-d8	1150000	10.569			
15067-26-2	Acenaphthene-d10	736000	14.415			
1517-22-2	Phenanthrene-d10	1450000	17.162			
1719-03-5	Chrysene-d12	1440000	21.397			
1520-96-3	Perylene-d12	1420000	24.391			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM049865.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MS	SDG No.:	Q1746
Lab Sample ID:	Q1744-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049865.D	1	04/08/25 08:59	04/09/25 13:08	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1600		170	370	ug/Kg
108-95-2	Phenol	1900		24.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1800		27.1	190	ug/Kg
95-48-7	2-Methylphenol	1900		33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		41.6	190	ug/Kg
98-86-2	Acetophenone	1700		32.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1900		45.6	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		52.6	88.8	ug/Kg
67-72-1	Hexachloroethane	1700		19.5	190	ug/Kg
98-95-3	Nitrobenzene	1700		20.3	190	ug/Kg
78-59-1	Isophorone	1900		36.4	190	ug/Kg
88-75-5	2-Nitrophenol	1700		64.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2600		71.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		31.4	190	ug/Kg
91-20-3	Naphthalene	1700		25.2	190	ug/Kg
106-47-8	4-Chloroaniline	410		39.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1700		28.1	190	ug/Kg
105-60-2	Caprolactam	1700		57.8	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		31.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6500	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		32.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1800		53.4	190	ug/Kg
131-11-3	Dimethylphthalate	1700		30.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MS	SDG No.:	Q1746
Lab Sample ID:	Q1744-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049865.D	1	04/08/25 08:59	04/09/25 13:08	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		37.3	190	ug/Kg
99-09-2	3-Nitroaniline	500		51.0	190	ug/Kg
83-32-9	Acenaphthene	1700		23.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	3900	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1700		25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		55.6	190	ug/Kg
84-66-2	Diethylphthalate	1700		31.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		29.6	190	ug/Kg
86-73-7	Fluorene	1800		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1600		71.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		36.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		30.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		28.1	190	ug/Kg
1912-24-9	Atrazine	2500		37.7	190	ug/Kg
87-86-5	Pentachlorophenol	3600	E	56.9	370	ug/Kg
85-01-8	Phenanthrene	1800		23.2	190	ug/Kg
120-12-7	Anthracene	1800		37.0	190	ug/Kg
86-74-8	Carbazole	1800		34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	1700		53.2	190	ug/Kg
206-44-0	Fluoranthene	1800		33.3	190	ug/Kg
129-00-0	Pyrene	1700		39.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	1600		79.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	550		40.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	1800		25.5	190	ug/Kg
218-01-9	Chrysene	1900		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		65.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		96.3	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MS	SDG No.:	Q1746
Lab Sample ID:	Q1744-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049865.D	1	04/08/25 08:59	04/09/25 13:08	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	1900		32.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		32.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		30.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		28.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		28.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		50.2	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		30.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	123		30 (18) - 130 (112)	82%	SPK: 150
13127-88-3	Phenol-d6	125		30 (15) - 130 (107)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.9		30 (18) - 130 (107)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.7		30 (20) - 130 (109)	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	89.4		30 (10) - 130 (105)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	298000	7.775			
1146-65-2	Naphthalene-d8	1050000	10.569			
15067-26-2	Acenaphthene-d10	691000	14.421			
1517-22-2	Phenanthrene-d10	1390000	17.162			
1719-03-5	Chrysene-d12	1460000	21.398			
1520-96-3	Perylene-d12	1510000	24.391			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM049866.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MSD	SDG No.:	Q1746
Lab Sample ID:	Q1744-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049866.D	1	04/08/25 08:59	04/09/25 13:47	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1600		170	370	ug/Kg
108-95-2	Phenol	1900		24.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1900		27.1	190	ug/Kg
95-48-7	2-Methylphenol	2000		33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		41.6	190	ug/Kg
98-86-2	Acetophenone	1800		32.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	2000		45.6	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		52.6	88.7	ug/Kg
67-72-1	Hexachloroethane	1800		19.5	190	ug/Kg
98-95-3	Nitrobenzene	1800		20.3	190	ug/Kg
78-59-1	Isophorone	1900		36.4	190	ug/Kg
88-75-5	2-Nitrophenol	1800		64.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		71.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		31.4	190	ug/Kg
91-20-3	Naphthalene	1700		25.2	190	ug/Kg
106-47-8	4-Chloroaniline	450		39.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		28.1	190	ug/Kg
105-60-2	Caprolactam	1800		57.8	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		31.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6800	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		32.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	1800		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1900		53.4	190	ug/Kg
131-11-3	Dimethylphthalate	1800		30.1	190	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MSD	SDG No.:	Q1746
Lab Sample ID:	Q1744-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049866.D	1	04/08/25 08:59	04/09/25 13:47	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		37.3	190	ug/Kg
99-09-2	3-Nitroaniline	510		51.0	190	ug/Kg
83-32-9	Acenaphthene	1800		23.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3200	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1700		25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		55.6	190	ug/Kg
84-66-2	Diethylphthalate	1800		31.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		29.6	190	ug/Kg
86-73-7	Fluorene	1800		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1700		71.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		36.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		30.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		28.1	190	ug/Kg
1912-24-9	Atrazine	2600		37.7	190	ug/Kg
87-86-5	Pentachlorophenol	3700	E	56.9	370	ug/Kg
85-01-8	Phenanthrene	1800		23.2	190	ug/Kg
120-12-7	Anthracene	1900		36.9	190	ug/Kg
86-74-8	Carbazole	1900		34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	1800		53.1	190	ug/Kg
206-44-0	Fluoranthene	1900		33.3	190	ug/Kg
129-00-0	Pyrene	1800		39.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	1700		79.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	580		40.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	1900		25.5	190	ug/Kg
218-01-9	Chrysene	1900		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		65.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		96.3	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MSD	SDG No.:	Q1746
Lab Sample ID:	Q1744-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049866.D	1	04/08/25 08:59	04/09/25 13:47	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2000		24.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	2000		32.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		32.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		30.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		28.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		28.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		50.1	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		30.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		30 (18) - 130 (112)	85%	SPK: 150
13127-88-3	Phenol-d6	130		30 (15) - 130 (107)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.2		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.2		30 (20) - 130 (109)	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		30 (10) - 130 (116)	94%	SPK: 150
1718-51-0	Terphenyl-d14	93.3		30 (10) - 130 (105)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	285000	7.775			
1146-65-2	Naphthalene-d8	1010000	10.569			
15067-26-2	Acenaphthene-d10	664000	14.421			
1517-22-2	Phenanthrene-d10	1340000	17.162			
1719-03-5	Chrysene-d12	1400000	21.397			
1520-96-3	Perylene-d12	1460000	24.391			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 09 04:00:55 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM049848.D 5 =BM049849.D 10 =BM049850.D 20 =BM049851.D 40 =BM049852.D 50 =BM049853.D 60 =BM049854.D 80 =BM0498
55.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.497	0.470	0.501	0.488	0.486	0.471	0.483	0.485	2.47
3)		Pyridine		1.262	1.220	1.322	1.287	1.276	1.278	1.276	1.274	2.40
4)		n-Nitrosodimet...		0.478	0.461	0.496	0.489	0.484	0.500	0.488	0.485	2.67
5)	S	2-Fluorophenol		1.145	1.144	1.213	1.191	1.165	1.210	1.177	1.178	2.40
6)		Aniline		1.304	1.315	1.396	1.325	1.153	1.142	1.154	1.256	8.22
7)	S	Phenol-d6		1.391	1.392	1.523	1.491	1.433	1.543	1.485	1.465	4.15
8)		2-Chlorophenol		1.180	1.191	1.250	1.218	1.174	1.239	1.199	1.207	2.42
9)		Benzaldehyde		0.873	0.830	0.838	0.750	0.712	0.701	0.561	0.752	14.25
10)	C	Phenol		1.376	1.370	1.482	1.441	1.394	1.496	1.451	1.430	3.56
11)		bis(2-Chloroet...		1.113	1.084	1.147	1.135	1.096	1.160	1.114	1.121	2.45
12)		1,3-Dichlorobe...		1.417	1.391	1.475	1.438	1.418	1.441	1.409	1.427	1.90
13)	C	1,4-Dichlorobe...		1.418	1.399	1.488	1.453	1.412	1.455	1.426	1.436	2.15
14)		1,2-Dichlorobe...		1.348	1.325	1.402	1.374	1.324	1.359	1.334	1.352	2.12
15)		Benzyl Alcohol		0.852	0.857	0.950	0.953	0.904	0.993	0.951	0.923	5.79
16)		2,2'-oxybis(1-...		1.268	1.235	1.312	1.267	1.192	1.261	1.214	1.250	3.18
17)		2-Methylphenol		0.858	0.856	0.916	0.891	0.850	0.920	0.877	0.881	3.29
18)		Hexachloroethane		0.505	0.494	0.520	0.504	0.486	0.501	0.488	0.500	2.32
19)	P	n-Nitroso-di-n...	0.760	0.786	0.783	0.860	0.836	0.793	0.859	0.816	0.812	4.60
20)		3+4-Methylphenols		1.140	1.142	1.246	1.224	1.170	1.272	1.215	1.201	4.31
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.463	0.477	0.496	0.498	0.482	0.494	0.493	0.486	2.64
23)	S	Nitrobenzene-d5		0.335	0.344	0.366	0.368	0.361	0.370	0.371	0.359	3.96
24)		Nitrobenzene		0.329	0.329	0.354	0.356	0.345	0.353	0.354	0.346	3.49
25)		Isophorone		0.569	0.568	0.613	0.616	0.598	0.628	0.620	0.602	4.05
26)	C	2-Nitrophenol		0.162	0.165	0.183	0.189	0.190	0.197	0.197	0.183	7.91
27)		2,4-Dimethylph...		0.185	0.194	0.208	0.213	0.212	0.221	0.221	0.208	6.48
28)		bis(2-Chloroet...		0.386	0.386	0.411	0.410	0.399	0.415	0.412	0.403	3.08
29)	C	2,4-Dichloroph...		0.319	0.320	0.348	0.353	0.349	0.364	0.364	0.345	5.45
30)		1,2,4-Trichlor...		0.386	0.380	0.401	0.404	0.399	0.412	0.413	0.399	3.11
31)		Naphthalene		1.004	0.990	1.045	1.042	1.019	1.050	1.045	1.028	2.32
32)		Benzoic acid			0.109	0.175	0.230	0.240	0.283	0.283	0.220	30.63
33)		4-Chloroaniline		0.348	0.351	0.376	0.380	0.359	0.359	0.366	0.363	3.34
34)	C	Hexachlorobuta...		0.238	0.236	0.245	0.249	0.249	0.255	0.258	0.247	3.33
35)		Caprolactam		0.093	0.089	0.100	0.102	0.099	0.107	0.104	0.099	6.29
36)	C	4-Chloro-3-met...		0.277	0.276	0.305	0.309	0.303	0.326	0.321	0.302	6.41
37)		2-Methylnaphth...		0.683	0.685	0.729	0.734	0.721	0.762	0.755	0.724	4.23
38)		1-Methylnaphth...		0.680	0.659	0.711	0.713	0.703	0.739	0.732	0.705	3.97

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM040825.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.664	0.662	0.697	0.706	0.711	0.721	0.737	0.700	4.02
41)	P	Hexachlorocycl...	0.214	0.223	0.247	0.264	0.260	0.258	0.251	0.245	7.86
42)	S	2,4,6-Tribromo...	0.258	0.255	0.280	0.294	0.298	0.323	0.328	0.291	9.94
43)	C	2,4,6-Trichlor...	0.417	0.420	0.444	0.459	0.449	0.459	0.468	0.445	4.46
44)		2,4,5-Trichlor...	0.465	0.452	0.472	0.500	0.483	0.504	0.510	0.484	4.52
45)	S	2-Fluorobiphenyl	1.425	1.414	1.499	1.515	1.486	1.482	1.504	1.475	2.68
46)		1,1'-Biphenyl	1.451	1.429	1.514	1.528	1.480	1.490	1.515	1.487	2.45
47)		2-Chloronaphth...	1.140	1.144	1.188	1.194	1.163	1.162	1.189	1.169	1.88
48)		2-Nitroaniline	0.232	0.242	0.272	0.283	0.281	0.286	0.295	0.270	8.83
49)		Acenaphthylene	1.627	1.613	1.718	1.742	1.711	1.735	1.768	1.702	3.46
50)		Dimethylphthalate	1.366	1.331	1.430	1.438	1.411	1.446	1.455	1.411	3.27
51)		2,6-Dinitrotol...	0.249	0.265	0.303	0.310	0.305	0.317	0.320	0.296	9.38
52)	C	Acenaphthene	1.027	1.023	1.089	1.113	1.089	1.110	1.127	1.083	3.83
53)		3-Nitroaniline	0.236	0.253	0.290	0.310	0.295	0.295	0.321	0.286	10.64
54)	P	2,4-Dinitrophenol		0.097	0.148	0.184	0.194	0.212	0.216	0.175	26.04
55)		Dibenzofuran	1.737	1.709	1.821	1.845	1.815	1.862	1.879	1.810	3.52
56)	P	4-Nitrophenol	0.195	0.213	0.257	0.270	0.273	0.286	0.288	0.255	14.34
57)		2,4-Dinitrotol...	0.309	0.333	0.395	0.421	0.420	0.440	0.443	0.394	13.45
58)		Fluorene	1.354	1.335	1.450	1.481	1.456	1.489	1.505	1.439	4.67
59)		2,3,4,6-Tetrac...	0.418	0.397	0.416	0.427	0.420	0.440	0.452	0.424	4.21
60)		Diethylphthalate	1.311	1.270	1.378	1.390	1.347	1.378	1.397	1.353	3.46
61)		4-Chlorophenyl...	0.699	0.694	0.761	0.789	0.791	0.830	0.836	0.771	7.43
62)		4-Nitroaniline	0.227	0.247	0.301	0.320	0.316	0.327	0.331	0.295	14.02
63)		Azobenzene	1.077	1.085	1.185	1.202	1.167	1.192	1.200	1.158	4.67
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.094	0.119	0.132	0.133	0.138	0.140	0.126	13.60
66)	c	n-Nitrosodiphe...	0.561	0.578	0.606	0.619	0.602	0.610	0.614	0.599	3.54
67)		4-Bromophenyl-...	0.212	0.212	0.227	0.239	0.237	0.247	0.252	0.232	6.83
68)		Hexachlorobenzene	0.249	0.250	0.262	0.273	0.268	0.279	0.284	0.266	5.08
69)		Atrazine	0.186	0.177	0.142	0.130	0.142		0.155		15.89
70)	C	Pentachlorophenol	0.181	0.186	0.191	0.204	0.197	0.204	0.210	0.196	5.46
71)		Phenanthrene	1.031	1.030	1.095	1.133	1.104	1.135	1.147	1.096	4.41
72)		Anthracene	0.997	1.004	1.074	1.125	1.099	1.125	1.140	1.081	5.41
73)		Carbazole	0.922	0.952	1.024	1.059	1.038	1.060	1.071	1.018	5.69
74)		Di-n-butylphth...	1.119	1.120	1.189	1.216	1.176	1.191	1.196	1.172	3.22
75)	C	Fluoranthene	1.187	1.206	1.310	1.387	1.395	1.463	1.488	1.348	8.78
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.319	0.260	0.205	0.403	0.163	0.150	0.357	0.265	36.93
78)		Pyrene	1.310	1.280	1.395	1.408	1.393	1.419	1.443	1.378	4.35
79)	S	Terphenyl-d14	0.988	1.004	1.139	1.187	1.142	1.007	1.004	1.067	7.91
80)		Butylbenzylpht...	0.502	0.500	0.537	0.536	0.511	0.516	0.523	0.518	2.88
81)		Benzo(a)anthra...	1.237	1.226	1.335	1.362	1.345	1.391	1.408	1.329	5.38
82)		3,3'-Dichlorob...	0.428	0.450	0.492	0.526	0.516	0.538	0.565	0.502	9.74
83)		Chrysene	1.179	1.173	1.261	1.292	1.277	1.318	1.346	1.264	5.21
84)		Bis(2-ethylhex...	0.758	0.747	0.790	0.783	0.740	0.727	0.737	0.755	3.16
85)	c	Di-n-octyl pht...	1.291	1.287	1.366	1.362	1.307	1.311	1.316	1.320	2.42

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM040825.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.375	1.368	1.480	1.507	1.523	1.577	1.606	1.491	6.16
88)		Benzo(b)fluora...	1.141	1.157	1.223	1.308	1.313	1.379	1.420	1.277	8.40
89)		Benzo(k)fluora...	1.132	1.122	1.209	1.242	1.263	1.336	1.362	1.238	7.46
90)	C	Benzo(a)pyrene	1.011	1.026	1.096	1.130	1.154	1.209	1.230	1.122	7.50
91)		Dibenzo(a,h)an...	1.128	1.128	1.205	1.244	1.258	1.301	1.331	1.228	6.43
92)		Benzo(g,h,i)pe...	1.178	1.179	1.255	1.265	1.269	1.310	1.328	1.255	4.65

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 13 05:55:58 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024160.D 5 =BP024161.D 10 =BP024162.D 20 =BP024163.D 40 =BP024164.D 50 =BP024165.D 60 =BP024166.D 80 =BP0241
67.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.503	0.499	0.518	0.469	0.496	0.498	0.493	0.497	2.93
3)		Pyridine		1.296	1.269	1.406	1.311	1.396	1.398	1.429	1.358	4.69
4)		n-Nitrosodimet...		0.444	0.436	0.476	0.431	0.461	0.466	0.461	0.454	3.66
5)	S	2-Fluorophenol		1.158	1.194	1.307	1.211	1.291	1.307	1.303	1.253	5.06
6)		Aniline		1.508	1.531	1.656	1.484	1.548	1.512	1.447	1.527	4.31
7)	S	Phenol-d6		1.518	1.581	1.747	1.631	1.749	1.754	1.748	1.675	5.86
8)		2-Chlorophenol		1.257	1.310	1.413	1.306	1.391	1.400	1.397	1.353	4.52
9)		Benzaldehyde		0.971	0.949	0.930	0.780	0.751	0.702	0.577	0.809	18.20
10)	C	Phenol		1.579	1.632	1.754	1.628	1.744	1.752	1.751	1.691	4.46
11)		bis(2-Chloroet...		1.286	1.317	1.407	1.273	1.341	1.358	1.356	1.334	3.45
12)		1,3-Dichlorobe...		1.466	1.448	1.522	1.387	1.477	1.471	1.445	1.459	2.79
13)	C	1,4-Dichlorobe...		1.507	1.474	1.562	1.413	1.493	1.503	1.479	1.490	3.01
14)		1,2-Dichlorobe...		1.446	1.426	1.494	1.358	1.435	1.440	1.411	1.430	2.85
15)		Benzyl Alcohol		0.934	0.966	1.096	1.042	1.122	1.126	1.139	1.061	7.77
16)		2,2'-oxybis(1-...		1.374	1.367	1.434	1.293	1.365	1.362	1.336	1.361	3.11
17)		2-Methylphenol		0.932	0.997	1.120	1.038	1.116	1.113	1.109	1.061	6.96
18)		Hexachloroethane		0.533	0.512	0.547	0.508	0.533	0.538	0.529	0.529	2.67
19)	P	n-Nitroso-di-n...	0.869	0.910	0.956	1.048	0.962	1.026	1.007	0.997	0.972	6.18
20)		3+4-Methylphenols		1.265	1.360	1.530	1.433	1.547	1.530	1.534	1.457	7.50
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.483	0.490	0.531	0.496	0.508	0.519	0.512	0.506	3.37
23)	S	Nitrobenzene-d5		0.330	0.338	0.366	0.351	0.362	0.368	0.367	0.354	4.34
24)		Nitrobenzene		0.330	0.336	0.362	0.341	0.355	0.363	0.361	0.350	3.88
25)		Isophorone		0.532	0.562	0.631	0.602	0.635	0.642	0.649	0.608	7.33
26)	C	2-Nitrophenol		0.126	0.141	0.167	0.171	0.182	0.189	0.192	0.167	14.92
27)		2,4-Dimethylph...		0.186	0.198	0.220	0.215	0.223	0.229	0.232	0.215	7.94
28)		bis(2-Chloroet...		0.414	0.418	0.438	0.418	0.429	0.437	0.439	0.427	2.55
29)	C	2,4-Dichloroph...		0.237	0.263	0.298	0.296	0.306	0.314	0.319	0.291	10.21
30)		1,2,4-Trichlor...		0.310	0.312	0.329	0.312	0.322	0.331	0.331	0.321	2.94
31)		Naphthalene		1.041	1.037	1.099	1.029	1.069	1.078	1.069	1.060	2.38
32)		Benzoic acid			0.148	0.190	0.218	0.239	0.252		0.209	19.82
33)		4-Chloroaniline		0.344	0.356	0.397	0.377	0.394	0.389	0.398	0.379	5.63
34)	C	Hexachlorobuta...		0.177	0.178	0.187	0.180	0.187	0.192	0.191	0.185	3.36
35)		Caprolactam		0.072	0.079	0.097	0.097	0.107	0.104	0.111	0.095	15.56
36)	C	4-Chloro-3-met...		0.261	0.283	0.324	0.314	0.333	0.332	0.348	0.313	9.83
37)		2-Methylnaphth...		0.689	0.684	0.737	0.704	0.731	0.734	0.735	0.716	3.27
38)		1-Methylnaphth...		0.674	0.673	0.728	0.673	0.704	0.705	0.720	0.697	3.32

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.548	0.560	0.596	0.558	0.580	0.608	0.596	0.578	3.98
41)	P	Hexachlorocycl...	0.169	0.189	0.214	0.212	0.220	0.234	0.222	0.208	10.65
42)	S	2,4,6-Tribromo...	0.203	0.222	0.256	0.252	0.270	0.275	0.285	0.252	11.69
43)	C	2,4,6-Trichlor...	0.291	0.324	0.379	0.372	0.391	0.409	0.406	0.367	11.98
44)		2,4,5-Trichlor...	0.331	0.362	0.414	0.409	0.422	0.439	0.443	0.403	10.23
45)	S	2-Fluorobiphenyl	1.364	1.358	1.420	1.319	1.335	1.367	1.332	1.356	2.44
46)		1,1'-Biphenyl	1.467	1.475	1.566	1.462	1.493	1.536	1.521	1.503	2.60
47)		2-Chloronaphth...	1.108	1.100	1.180	1.095	1.115	1.164	1.152	1.130	3.01
48)		2-Nitroaniline	0.228	0.252	0.300	0.292	0.311	0.317	0.324	0.289	12.34
49)		Acenaphthylene	1.586	1.628	1.776	1.661	1.749	1.789	1.784	1.710	4.91
50)		Dimethylphthalate	1.351	1.349	1.459	1.358	1.417	1.424	1.439	1.399	3.27
51)		2,6-Dinitrotol...	0.248	0.266	0.303	0.294	0.312	0.316	0.322	0.294	9.40
52)	C	Acenaphthene	1.057	1.056	1.136	1.061	1.096	1.123	1.121	1.093	3.18
53)		3-Nitroaniline	0.253	0.276	0.328	0.322	0.344	0.343	0.359	0.318	12.24
54)	P	2,4-Dinitrophenol		0.108	0.146	0.160	0.179	0.186		0.156	19.97
55)		Dibenzofuran	1.759	1.751	1.835	1.711	1.768	1.799	1.769	1.770	2.18
56)	P	4-Nitrophenol	0.187	0.218	0.271	0.277	0.299	0.296	0.312	0.266	17.41
57)		2,4-Dinitrotol...	0.295	0.334	0.400	0.394	0.423	0.431	0.446	0.389	14.19
58)		Fluorene	1.309	1.343	1.442	1.345	1.407	1.407	1.402	1.379	3.43
59)		2,3,4,6-Tetrac...	0.316	0.323	0.365	0.356	0.371	0.376	0.386	0.356	7.54
60)		Diethylphthalate	1.297	1.336	1.437	1.358	1.422	1.435	1.469	1.394	4.53
61)		4-Chlorophenyl...	0.658	0.660	0.696	0.658	0.685	0.689	0.690	0.676	2.53
62)		4-Nitroaniline	0.246	0.292	0.348	0.343	0.362	0.365	0.379	0.334	14.22
63)		Azobenzene	1.215	1.251	1.369	1.291	1.341	1.363	1.365	1.314	4.73
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.085	0.111	0.120	0.127	0.132	0.137	0.119	15.85
66)	c	n-Nitrosodiphe...	0.564	0.583	0.629	0.600	0.617	0.632	0.626	0.607	4.27
67)		4-Bromophenyl-...	0.206	0.207	0.222	0.217	0.224	0.229	0.231	0.220	4.60
68)		Hexachlorobenzene	0.248	0.249	0.263	0.254	0.263	0.270	0.272	0.260	3.76
69)		Atrazine	0.165	0.171	0.157	0.135	0.105			0.147	18.49
70)	C	Pentachlorophenol	0.121	0.140	0.166	0.177	0.184	0.190	0.197	0.168	16.61
71)		Phenanthrene	1.068	1.059	1.126	1.083	1.100	1.111	1.102	1.093	2.19
72)		Anthracene	0.993	1.012	1.101	1.063	1.092	1.090	1.098	1.064	4.16
73)		Carbazole	0.920	0.975	1.060	1.041	1.060	1.061	1.066	1.026	5.50
74)		Di-n-butylphth...	1.026	1.121	1.247	1.260	1.272	1.297	1.304	1.218	8.57
75)	C	Fluoranthene	1.173	1.220	1.287	1.264	1.305	1.298	1.312	1.265	4.07
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.222	0.199	0.178	0.258	0.173	0.278	0.222	0.219	17.88
78)		Pyrene	1.177	1.190	1.299	1.204	1.266	1.293	1.274	1.243	4.12
79)	S	Terphenyl-d14	0.967	0.973	1.033	0.948	0.966	0.971	0.924	0.969	3.45
80)		Butylbenzylpht...	0.399	0.441	0.513	0.524	0.554	0.581	0.576	0.513	13.49
81)		Benzo(a)anthra...	1.194	1.194	1.291	1.208	1.261	1.285	1.271	1.243	3.47
82)		3,3'-Dichlorob...	0.340	0.369	0.429	0.428	0.434	0.467	0.450	0.417	10.94
83)		Chrysene	1.185	1.159	1.224	1.158	1.212	1.220	1.209	1.195	2.36
84)		Bis(2-ethylhex...	0.613	0.678	0.784	0.792	0.819	0.878	0.851	0.774	12.30
85)	c	Di-n-octyl pht...	0.922	1.033	1.224	1.272	1.357	1.435	1.433	1.240	15.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.274	1.289	1.421	1.366	1.442	1.479	1.499	1.396	6.38
88)		Benzo(b)fluora...	1.103	1.116	1.258	1.190	1.244	1.266	1.264	1.206	5.85
89)		Benzo(k)fluora...	1.092	1.136	1.213	1.130	1.203	1.251	1.232	1.180	5.07
90)	C	Benzo(a)pyrene	0.953	0.959	1.065	1.029	1.094	1.119	1.122	1.049	6.77
91)		Dibenzo(a,h)an...	1.063	1.083	1.184	1.137	1.191	1.226	1.244	1.161	5.97
92)		Benzo(g,h,i)pe...	1.097	1.107	1.199	1.154	1.202	1.246	1.259	1.180	5.39

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_M Calibration Date/Time: 04/09/2025 09:09

Lab File ID: BM049859.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.178	1.196		1.5	
Benzaldehyde	0.752	0.661		-12.1	
Phenol-d6	1.465	1.508		2.9	
Phenol	1.430	1.460		2.1	20.0
bis(2-Chloroethyl)ether	1.121	1.160		3.5	
2-Chlorophenol	1.207	1.229		1.8	
2-Methylphenol	0.881	0.897		1.8	
2,2-oxybis(1-Chloropropane)	1.250	1.279		2.3	
Acetophenone	0.486	0.499		2.7	
3+4-Methylphenols	1.201	1.214		1.1	
n-Nitroso-di-n-propylamine	0.812	0.846	0.050	4.2	
Nitrobenzene-d5	0.359	0.370		3.1	
Hexachloroethane	0.500	0.504		0.8	
Nitrobenzene	0.346	0.354		2.3	
Isophorone	0.602	0.610		1.3	
2-Nitrophenol	0.183	0.186		1.6	20.0
2,4-Dimethylphenol	0.208	0.214		2.9	
bis(2-Chloroethoxy)methane	0.403	0.417		3.5	
2,4-Dichlorophenol	0.345	0.348		0.9	20.0
Naphthalene	1.028	1.045		1.7	
4-Chloroaniline	0.363	0.379		4.4	
Hexachlorobutadiene	0.247	0.252		2.0	20.0
Caprolactam	0.099	0.097		-2.0	
4-Chloro-3-methylphenol	0.302	0.306		1.3	20.0
2-Methylnaphthalene	0.724	0.748		3.3	
Hexachlorocyclopentadiene	0.245	0.263	0.050	7.3	
2,4,6-Trichlorophenol	0.445	0.457		2.7	20.0
2-Fluorobiphenyl	1.475	1.541		4.5	
2,4,5-Trichlorophenol	0.484	0.490		1.2	
1,1-Biphenyl	1.487	1.543		3.8	
2-Chloronaphthalene	1.169	1.198		2.5	
2-Nitroaniline	0.270	0.281		4.1	
Dimethylphthalate	1.411	1.453		3.0	
Acenaphthylene	1.702	1.748		2.7	
2,6-Dinitrotoluene	0.296	0.310		4.7	
3-Nitroaniline	0.286	0.305		6.6	
Acenaphthene	1.083	1.114		2.9	20.0
2,4-Dinitrophenol	0.175	0.181	0.050	3.4	
4-Nitrophenol	0.255	0.271	0.050	6.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_M Calibration Date/Time: 04/09/2025 09:09

Lab File ID: BM049859.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.810	1.863		2.9	
2,4-Dinitrotoluene	0.394	0.418		6.1	
Diethylphthalate	1.353	1.394		3.0	
4-Chlorophenyl-phenylether	0.771	0.808		4.8	
Fluorene	1.439	1.500		4.2	
4-Nitroaniline	0.295	0.317		7.5	
4,6-Dinitro-2-methylphenol	0.126	0.128		1.6	
n-Nitrosodiphenylamine	0.599	0.620		3.5	20.0
2,4,6-Tribromophenol	0.291	0.294		1.0	
4-Bromophenyl-phenylether	0.232	0.238		2.6	
Hexachlorobenzene	0.266	0.274		3.0	
Atrazine	0.155	0.137		-11.6	
Pentachlorophenol	0.196	0.192		-2.0	20.0
Phenanthrene	1.096	1.136		3.7	
Anthracene	1.081	1.120		3.6	
Carbazole	1.018	1.055		3.6	
Di-n-butylphthalate	1.172	1.208		3.1	
Fluoranthene	1.348	1.391		3.2	20.0
Pyrene	1.378	1.446		4.9	
Terphenyl-d14	1.067	1.223		14.6	
Butylbenzylphthalate	0.518	0.527		1.7	
3,3-Dichlorobenzidine	0.502	0.507		1.0	
Benzo(a)anthracene	1.329	1.372		3.2	
Chrysene	1.264	1.297		2.6	
Bis(2-ethylhexyl)phthalate	0.755	0.791		4.8	
Di-n-octyl phthalate	1.320	1.321		0.1	20.0
Benzo(b)fluoranthene	1.277	1.298		1.6	
Benzo(k)fluoranthene	1.238	1.290		4.2	
Benzo(a)pyrene	1.122	1.138		1.4	20.0
Indeno(1,2,3-cd)pyrene	1.491	1.514		1.5	
Dibenzo(a,h)anthracene	1.228	1.243		1.2	
Benzo(g,h,i)perylene	1.255	1.265		0.8	
1,2,4,5-Tetrachlorobenzene	0.700	0.722		3.1	
1,4-Dioxane	0.485	0.491		1.2	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.427		0.7	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_M Calibration Date/Time: 04/10/2025 09:32

Lab File ID: BM049876.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.178	1.166		-1.0	
Benzaldehyde	0.752	0.687		-8.6	
Phenol-d6	1.465	1.437		-1.9	
Phenol	1.430	1.404		-1.8	20.0
bis(2-Chloroethyl)ether	1.121	1.103		-1.6	
2-Chlorophenol	1.207	1.188		-1.6	
2-Methylphenol	0.881	0.857		-2.7	
2,2-oxybis(1-Chloropropane)	1.250	1.227		-1.8	
Acetophenone	0.486	0.492		1.2	
3+4-Methylphenols	1.201	1.171		-2.5	
n-Nitroso-di-n-propylamine	0.812	0.797	0.050	-1.8	
Nitrobenzene-d5	0.359	0.367		2.2	
Hexachloroethane	0.500	0.490		-2.0	
Nitrobenzene	0.346	0.348		0.6	
Isophorone	0.602	0.607		0.8	
2-Nitrophenol	0.183	0.190		3.8	20.0
2,4-Dimethylphenol	0.208	0.213		2.4	
bis(2-Chloroethoxy)methane	0.403	0.407		1.0	
2,4-Dichlorophenol	0.345	0.354		2.6	20.0
Naphthalene	1.028	1.040		1.2	
4-Chloroaniline	0.363	0.372		2.5	
Hexachlorobutadiene	0.247	0.257		4.0	20.0
Caprolactam	0.099	0.097		-2.0	
4-Chloro-3-methylphenol	0.302	0.304		0.7	20.0
2-Methylnaphthalene	0.724	0.739		2.1	
Hexachlorocyclopentadiene	0.245	0.267	0.050	9.0	
2,4,6-Trichlorophenol	0.445	0.462		3.8	20.0
2-Fluorobiphenyl	1.475	1.523		3.3	
2,4,5-Trichlorophenol	0.484	0.499		3.1	
1,1-Biphenyl	1.487	1.523		2.4	
2-Chloronaphthalene	1.169	1.192		2.0	
2-Nitroaniline	0.270	0.275		1.9	
Dimethylphthalate	1.411	1.436		1.8	
Acenaphthylene	1.702	1.738		2.1	
2,6-Dinitrotoluene	0.296	0.308		4.1	
3-Nitroaniline	0.286	0.303		5.9	
Acenaphthene	1.083	1.105		2.0	20.0
2,4-Dinitrophenol	0.175	0.186	0.050	6.3	
4-Nitrophenol	0.255	0.263	0.050	3.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_M Calibration Date/Time: 04/10/2025 09:32

Lab File ID: BM049876.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.810	1.845		1.9	
2,4-Dinitrotoluene	0.394	0.418		6.1	
Diethylphthalate	1.353	1.368		1.1	
4-Chlorophenyl-phenylether	0.771	0.783		1.6	
Fluorene	1.439	1.462		1.6	
4-Nitroaniline	0.295	0.311		5.4	
4,6-Dinitro-2-methylphenol	0.126	0.129		2.4	
n-Nitrosodiphenylamine	0.599	0.614		2.5	20.0
2,4,6-Tribromophenol	0.291	0.295		1.4	
4-Bromophenyl-phenylether	0.232	0.240		3.4	
Hexachlorobenzene	0.266	0.274		3.0	
Atrazine	0.155	0.167		7.7	
Pentachlorophenol	0.196	0.195		-0.5	20.0
Phenanthrene	1.096	1.123		2.5	
Anthracene	1.081	1.111		2.8	
Carbazole	1.018	1.043		2.5	
Di-n-butylphthalate	1.172	1.210		3.2	
Fluoranthene	1.348	1.368		1.5	20.0
Pyrene	1.378	1.448		5.1	
Terphenyl-d14	1.067	1.192		11.7	
Butylbenzylphthalate	0.518	0.545		5.2	
3,3-Dichlorobenzidine	0.502	0.524		4.4	
Benzo(a)anthracene	1.329	1.351		1.7	
Chrysene	1.264	1.292		2.2	
Bis(2-ethylhexyl)phthalate	0.755	0.777		2.9	
Di-n-octyl phthalate	1.320	1.367		3.6	20.0
Benzo(b)fluoranthene	1.277	1.267		-0.8	
Benzo(k)fluoranthene	1.238	1.241		0.2	
Benzo(a)pyrene	1.122	1.131		0.8	20.0
Indeno(1,2,3-cd)pyrene	1.491	1.512		1.4	
Dibenzo(a,h)anthracene	1.228	1.240		1.0	
Benzo(g,h,i)perylene	1.255	1.269		1.1	
1,2,4,5-Tetrachlorobenzene	0.700	0.726		3.7	
1,4-Dioxane	0.485	0.475		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.428		0.9	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_M Calibration Date/Time: 04/16/2025 09:28

Lab File ID: BM049944.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.178	1.130		-4.1	
Benzaldehyde	0.752	1.425		89.5	
Phenol-d6	1.465	1.430		-2.4	
Phenol	1.430	1.390		-2.8	20.0
bis(2-Chloroethyl)ether	1.121	1.132		1.0	
2-Chlorophenol	1.207	1.170		-3.1	
2-Methylphenol	0.881	0.869		-1.4	
2,2-oxybis(1-Chloropropane)	1.250	1.250		0.0	
Acetophenone	0.486	0.466		-4.1	
3+4-Methylphenols	1.201	1.188		-1.1	
n-Nitroso-di-n-propylamine	0.812	0.823	0.050	1.4	
Nitrobenzene-d5	0.359	0.349		-2.8	
Hexachloroethane	0.500	0.476		-4.8	
Nitrobenzene	0.346	0.333		-3.8	
Isophorone	0.602	0.598		-0.7	
2-Nitrophenol	0.183	0.184		0.5	20.0
2,4-Dimethylphenol	0.208	0.207		-0.5	
bis(2-Chloroethoxy)methane	0.403	0.396		-1.7	
2,4-Dichlorophenol	0.345	0.338		-2.0	20.0
Naphthalene	1.028	0.990		-3.7	
4-Chloroaniline	0.363	0.343		-5.5	
Hexachlorobutadiene	0.247	0.242		-2.0	20.0
Caprolactam	0.099	0.097		-2.0	
4-Chloro-3-methylphenol	0.302	0.302		0.0	20.0
2-Methylnaphthalene	0.724	0.714		-1.4	
Hexachlorocyclopentadiene	0.245	0.207	0.050	-15.5	
2,4,6-Trichlorophenol	0.445	0.441		-0.9	20.0
2-Fluorobiphenyl	1.475	1.434		-2.8	
2,4,5-Trichlorophenol	0.484	0.481		-0.6	
1,1-Biphenyl	1.487	1.435		-3.5	
2-Chloronaphthalene	1.169	1.113		-4.8	
2-Nitroaniline	0.270	0.275		1.9	
Dimethylphthalate	1.411	1.396		-1.1	
Acenaphthylene	1.702	1.657		-2.6	
2,6-Dinitrotoluene	0.296	0.304		2.7	
3-Nitroaniline	0.286	0.287		0.3	
Acenaphthene	1.083	1.048		-3.2	20.0
2,4-Dinitrophenol	0.175	0.173	0.050	-1.1	
4-Nitrophenol	0.255	0.247	0.050	-3.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_M Calibration Date/Time: 04/16/2025 09:28

Lab File ID: BM049944.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.810	1.768		-2.3	
2,4-Dinitrotoluene	0.394	0.416		5.6	
Diethylphthalate	1.353	1.343		-0.7	
4-Chlorophenyl-phenylether	0.771	0.772		0.1	
Fluorene	1.439	1.410		-2.0	
4-Nitroaniline	0.295	0.296		0.3	
4,6-Dinitro-2-methylphenol	0.126	0.121		-4.0	
n-Nitrosodiphenylamine	0.599	0.573		-4.3	20.0
2,4,6-Tribromophenol	0.291	0.301		3.4	
4-Bromophenyl-phenylether	0.232	0.231		-0.4	
Hexachlorobenzene	0.266	0.264		-0.8	
Atrazine	0.155	0.191		23.2	
Pentachlorophenol	0.196	0.179		-8.7	20.0
Phenanthrene	1.096	1.053		-3.9	
Anthracene	1.081	1.050		-2.9	
Carbazole	1.018	0.972		-4.5	
Di-n-butylphthalate	1.172	1.152		-1.7	
Fluoranthene	1.348	1.334		-1.0	20.0
Pyrene	1.378	1.390		0.9	
Terphenyl-d14	1.067	1.150		7.8	
Butylbenzylphthalate	0.518	0.514		-0.8	
3,3-Dichlorobenzidine	0.502	0.446		-11.2	
Benzo(a)anthracene	1.329	1.294		-2.6	
Chrysene	1.264	1.209		-4.4	
Bis(2-ethylhexyl)phthalate	0.755	0.731		-3.2	
Di-n-octyl phthalate	1.320	1.247		-5.5	20.0
Benzo(b)fluoranthene	1.277	1.237		-3.1	
Benzo(k)fluoranthene	1.238	1.213		-2.0	
Benzo(a)pyrene	1.122	1.079		-3.8	20.0
Indeno(1,2,3-cd)pyrene	1.491	1.332		-10.7	
Dibenzo(a,h)anthracene	1.228	1.092		-11.1	
Benzo(g,h,i)perylene	1.255	1.086		-13.5	
1,2,4,5-Tetrachlorobenzene	0.700	0.678		-3.1	
1,4-Dioxane	0.485	0.447		-7.8	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.416		-1.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_P Calibration Date/Time: 04/09/2025 10:08

Lab File ID: BP024228.D Init. Calib. Date(s): 03/12/2025 03/12/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:17 21:02

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.253	1.307		4.3	
Benzaldehyde	0.809	0.769		-4.9	
Phenol-d6	1.675	1.739		3.8	
Phenol	1.691	1.750		3.5	20.0
bis(2-Chloroethyl)ether	1.334	1.368		2.5	
2-Chlorophenol	1.353	1.387		2.5	
2-Methylphenol	1.061	1.121		5.7	
2,2-oxybis(1-Chloropropane)	1.361	1.437		5.6	
Acetophenone	0.506	0.525		3.8	
3+4-Methylphenols	1.457	1.527		4.8	
n-Nitroso-di-n-propylamine	0.972	1.033	0.050	6.3	
Nitrobenzene-d5	0.354	0.378		6.8	
Hexachloroethane	0.529	0.541		2.3	
Nitrobenzene	0.350	0.372		6.3	
Isophorone	0.608	0.657		8.1	
2-Nitrophenol	0.167	0.185		10.8	20.0
2,4-Dimethylphenol	0.215	0.225		4.7	
bis(2-Chloroethoxy)methane	0.427	0.449		5.2	
2,4-Dichlorophenol	0.291	0.311		6.9	20.0
Naphthalene	1.060	1.100		3.8	
4-Chloroaniline	0.379	0.401		5.8	
Hexachlorobutadiene	0.185	0.185		0.0	20.0
Caprolactam	0.095	0.110		15.8	
4-Chloro-3-methylphenol	0.313	0.341		8.9	20.0
2-Methylnaphthalene	0.716	0.745		4.1	
Hexachlorocyclopentadiene	0.208	0.215	0.050	3.4	
2,4,6-Trichlorophenol	0.367	0.387		5.4	20.0
2-Fluorobiphenyl	1.356	1.365		0.7	
2,4,5-Trichlorophenol	0.403	0.426		5.7	
1,1-Biphenyl	1.503	1.538		2.3	
2-Chloronaphthalene	1.130	1.141		1.0	
2-Nitroaniline	0.289	0.329		13.8	
Dimethylphthalate	1.399	1.466		4.8	
Acenaphthylene	1.710	1.788		4.6	
2,6-Dinitrotoluene	0.294	0.319		8.5	
3-Nitroaniline	0.318	0.355		11.6	
Acenaphthene	1.093	1.131		3.5	20.0
2,4-Dinitrophenol	0.156	0.179	0.050	14.7	
4-Nitrophenol	0.266	0.308	0.050	15.8	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_P Calibration Date/Time: 04/09/2025 10:08

Lab File ID: BP024228.D Init. Calib. Date(s): 03/12/2025 03/12/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:17 21:02

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.770	1.819		2.8	
2,4-Dinitrotoluene	0.389	0.439		12.9	
Diethylphthalate	1.394	1.496		7.3	
4-Chlorophenyl-phenylether	0.676	0.681		0.7	
Fluorene	1.379	1.420		3.0	
4-Nitroaniline	0.334	0.374		12.0	
4,6-Dinitro-2-methylphenol	0.119	0.126		5.9	
n-Nitrosodiphenylamine	0.607	0.626		3.1	20.0
2,4,6-Tribromophenol	0.252	0.271		7.5	
4-Bromophenyl-phenylether	0.220	0.220		0.0	
Hexachlorobenzene	0.260	0.261		0.4	
Atrazine	0.147	0.157		6.8	
Pentachlorophenol	0.168	0.183		8.9	20.0
Phenanthrene	1.093	1.117		2.2	
Anthracene	1.064	1.101		3.5	
Carbazole	1.026	1.092		6.4	
Di-n-butylphthalate	1.218	1.345		10.4	
Fluoranthene	1.265	1.339		5.8	20.0
Pyrene	1.243	1.315		5.8	
Terphenyl-d14	0.969	1.019		5.2	
Butylbenzylphthalate	0.513	0.579		12.9	
3,3-Dichlorobenzidine	0.417	0.477		14.4	
Benzo(a)anthracene	1.243	1.303		4.8	
Chrysene	1.195	1.236		3.4	
Bis(2-ethylhexyl)phthalate	0.774	0.866		11.9	
Di-n-octyl phthalate	1.240	1.441		16.2	20.0
Benzo(b)fluoranthene	1.206	1.262		4.6	
Benzo(k)fluoranthene	1.180	1.193		1.1	
Benzo(a)pyrene	1.049	1.081		3.1	20.0
Indeno(1,2,3-cd)pyrene	1.396	1.431		2.5	
Dibenzo(a,h)anthracene	1.161	1.190		2.5	
Benzo(g,h,i)perylene	1.180	1.210		2.5	
1,2,4,5-Tetrachlorobenzene	0.578	0.583		0.9	
1,4-Dioxane	0.497	0.516		3.8	20.0
2,3,4,6-Tetrachlorophenol	0.356	0.377		5.9	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_P Calibration Date/Time: 04/10/2025 09:46

Lab File ID: BP024245.D Init. Calib. Date(s): 03/12/2025 03/12/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:17 21:02

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.253	1.288		2.8	
Benzaldehyde	0.809	0.754		-6.8	
Phenol-d6	1.675	1.722		2.8	
Phenol	1.691	1.720		1.7	20.0
bis(2-Chloroethyl)ether	1.334	1.345		0.8	
2-Chlorophenol	1.353	1.391		2.8	
2-Methylphenol	1.061	1.118		5.4	
2,2-oxybis(1-Chloropropane)	1.361	1.415		4.0	
Acetophenone	0.506	0.514		1.6	
3+4-Methylphenols	1.457	1.542		5.8	
n-Nitroso-di-n-propylamine	0.972	1.019	0.050	4.8	
Nitrobenzene-d5	0.354	0.366		3.4	
Hexachloroethane	0.529	0.538		1.7	
Nitrobenzene	0.350	0.364		4.0	
Isophorone	0.608	0.646		6.3	
2-Nitrophenol	0.167	0.190		13.8	20.0
2,4-Dimethylphenol	0.215	0.225		4.7	
bis(2-Chloroethoxy)methane	0.427	0.432		1.2	
2,4-Dichlorophenol	0.291	0.309		6.2	20.0
Naphthalene	1.060	1.084		2.3	
4-Chloroaniline	0.379	0.399		5.3	
Hexachlorobutadiene	0.185	0.191		3.2	20.0
Caprolactam	0.095	0.107		12.6	
4-Chloro-3-methylphenol	0.313	0.342		9.3	20.0
2-Methylnaphthalene	0.716	0.736		2.8	
Hexachlorocyclopentadiene	0.208	0.220	0.050	5.8	
2,4,6-Trichlorophenol	0.367	0.401		9.3	20.0
2-Fluorobiphenyl	1.356	1.375		1.4	
2,4,5-Trichlorophenol	0.403	0.437		8.4	
1,1-Biphenyl	1.503	1.546		2.9	
2-Chloronaphthalene	1.130	1.164		3.0	
2-Nitroaniline	0.289	0.328		13.5	
Dimethylphthalate	1.399	1.457		4.1	
Acenaphthylene	1.710	1.814		6.1	
2,6-Dinitrotoluene	0.294	0.319		8.5	
3-Nitroaniline	0.318	0.343		7.9	
Acenaphthene	1.093	1.118		2.3	20.0
2,4-Dinitrophenol	0.156	0.187	0.050	19.9	
4-Nitrophenol	0.266	0.301	0.050	13.2	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_P Calibration Date/Time: 04/10/2025 09:46

Lab File ID: BP024245.D Init. Calib. Date(s): 03/12/2025 03/12/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:17 21:02

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.770	1.831		3.4	
2,4-Dinitrotoluene	0.389	0.440		13.1	
Diethylphthalate	1.394	1.493		7.1	
4-Chlorophenyl-phenylether	0.676	0.677		0.1	
Fluorene	1.379	1.402		1.7	
4-Nitroaniline	0.334	0.365		9.3	
4,6-Dinitro-2-methylphenol	0.119	0.133		11.8	
n-Nitrosodiphenylamine	0.607	0.627		3.3	20.0
2,4,6-Tribromophenol	0.252	0.289		14.7	
4-Bromophenyl-phenylether	0.220	0.233		5.9	
Hexachlorobenzene	0.260	0.272		4.6	
Atrazine	0.147	0.163		10.9	
Pentachlorophenol	0.168	0.196		16.7	20.0
Phenanthrene	1.093	1.113		1.8	
Anthracene	1.064	1.104		3.8	
Carbazole	1.026	1.069		4.2	
Di-n-butylphthalate	1.218	1.344		10.3	
Fluoranthene	1.265	1.307		3.3	20.0
Pyrene	1.243	1.314		5.7	
Terphenyl-d14	0.969	1.006		3.8	
Butylbenzylphthalate	0.513	0.605		17.9	
3,3-Dichlorobenzidine	0.417	0.484		16.1	
Benzo(a)anthracene	1.243	1.289		3.7	
Chrysene	1.195	1.222		2.3	
Bis(2-ethylhexyl)phthalate	0.774	0.886		14.5	
Di-n-octyl phthalate	1.240	1.522		22.7	20.0
Benzo(b)fluoranthene	1.206	1.239		2.7	
Benzo(k)fluoranthene	1.180	1.183		0.3	
Benzo(a)pyrene	1.049	1.081		3.1	20.0
Indeno(1,2,3-cd)pyrene	1.396	1.446		3.6	
Dibenzo(a,h)anthracene	1.161	1.193		2.8	
Benzo(g,h,i)perylene	1.180	1.203		1.9	
1,2,4,5-Tetrachlorobenzene	0.578	0.591		2.2	
1,4-Dioxane	0.497	0.491		-1.2	20.0
2,3,4,6-Tetrachlorophenol	0.356	0.385		8.1	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Time: Apr 10 01:00:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 05:55:58 2025
Response via : Initial Calibration

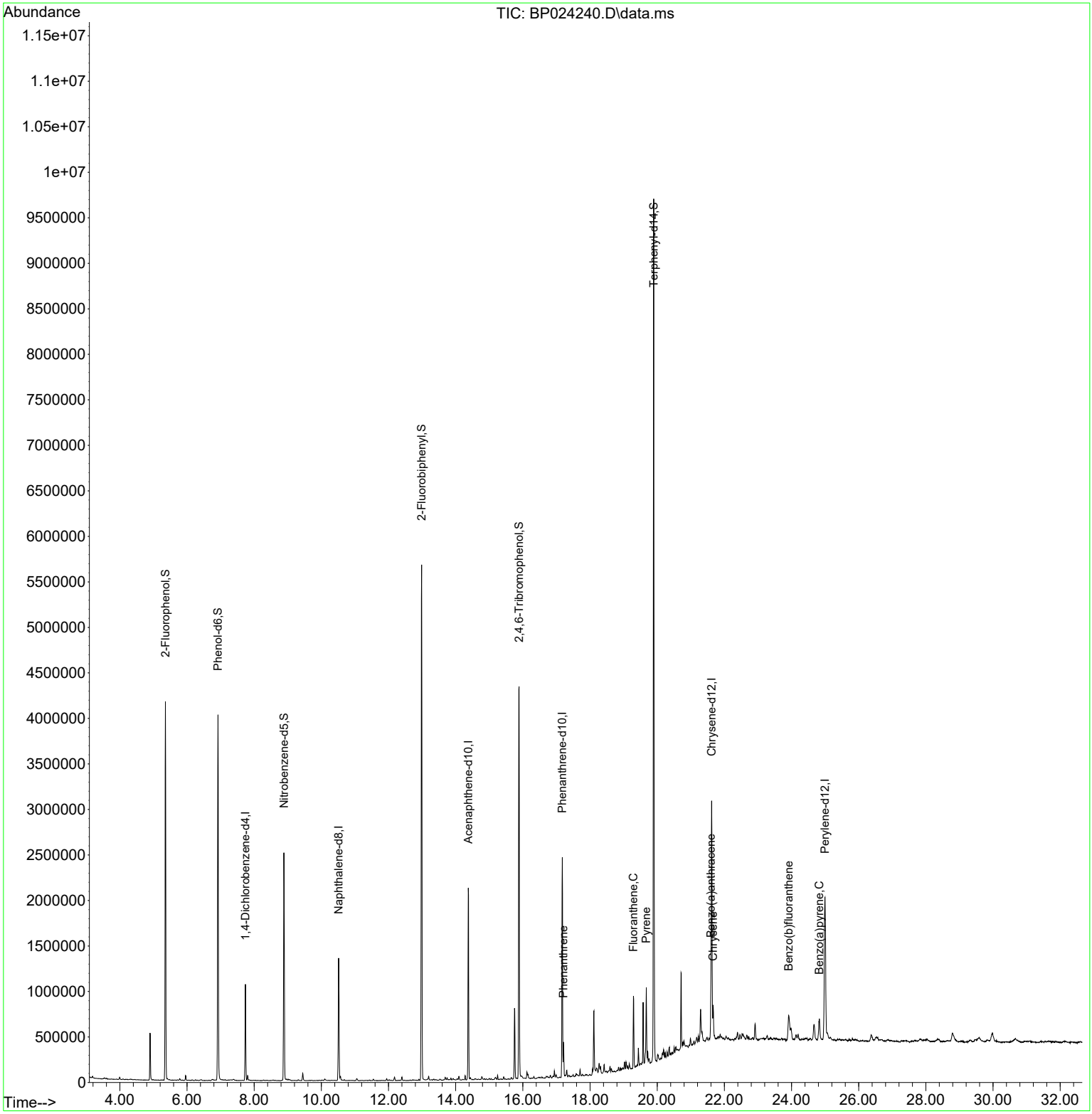
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.740	152	273538	20.000	ng		-0.03
21) Naphthalene-d8	10.516	136	1106820	20.000	ng		-0.04
39) Acenaphthene-d10	14.375	164	675246	20.000	ng		-0.03
64) Phenanthrene-d10	17.175	188	1351996	20.000	ng		-0.03
76) Chrysene-d12	21.621	240	1469545	20.000	ng		-0.04
86) Perylene-d12	24.992	264	1665459	20.000	ng		-0.06
System Monitoring Compounds							
5) 2-Fluorophenol	5.358	112	1830629	106.830	ng		-0.02
7) Phenol-d6	6.922	99	2412488	105.279	ng		-0.03
23) Nitrobenzene-d5	8.887	82	1436557	73.230	ng		-0.04
42) 2,4,6-Tribromophenol	15.886	330	875242	102.902	ng		-0.03
45) 2-Fluorobiphenyl	12.987	172	3002639	65.568	ng		-0.03
79) Terphenyl-d14	19.898	244	4475088	62.860	ng		-0.02
Target Compounds							Qvalue
71) Phenanthrene	17.210	178	214910	2.910	ng		99
75) Fluoranthene	19.292	202	460658	5.385	ng		98
78) Pyrene	19.675	202	469635	5.140	ng		99
81) Benzo(a)anthracene	21.598	228	255473	2.796	ng		97
83) Chrysene	21.663	228	273819	3.118	ng		98
88) Benzo(b)fluoranthene	23.915	252	347008	3.456	ng	#	96
90) Benzo(a)pyrene	24.827	252	236671	2.710	ng	#	96

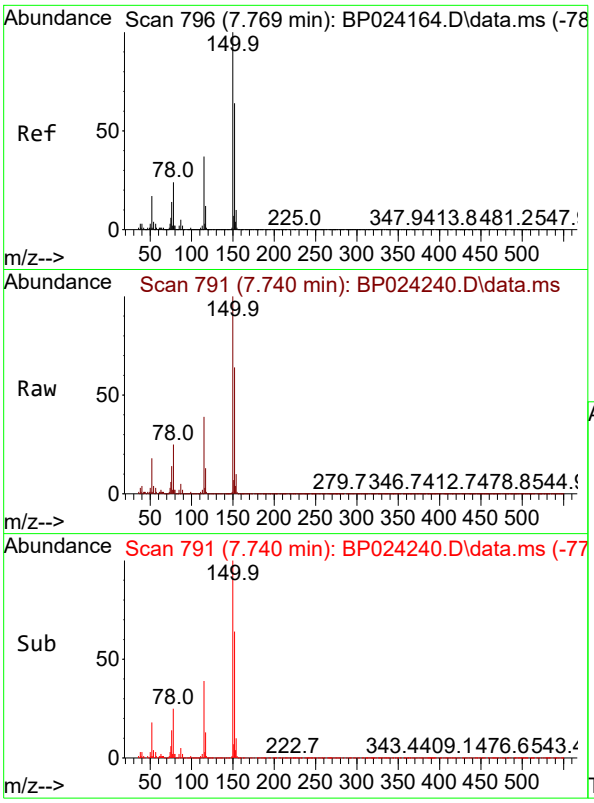
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Time: Apr 10 01:00:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 05:55:58 2025
Response via : Initial Calibration



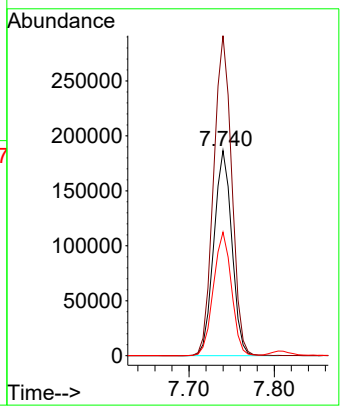


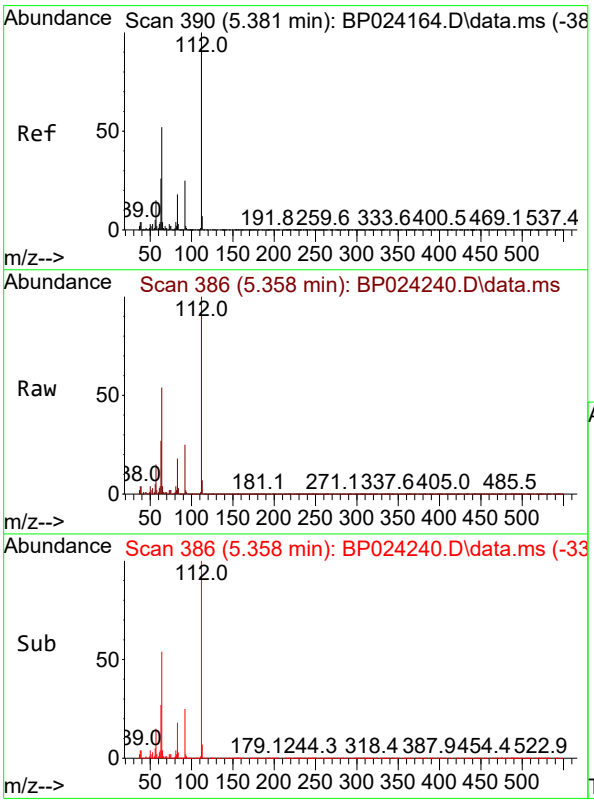
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.029 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:152 Resp: 273538

Ion	Ratio	Lower	Upper
152	100		
150	156.0	125.5	188.3
115	60.3	46.3	69.5

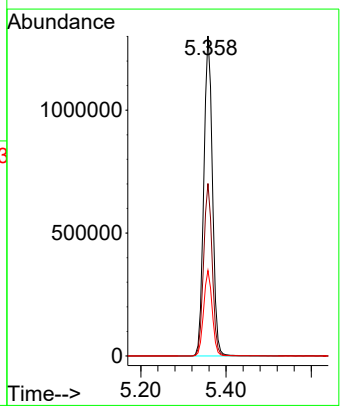


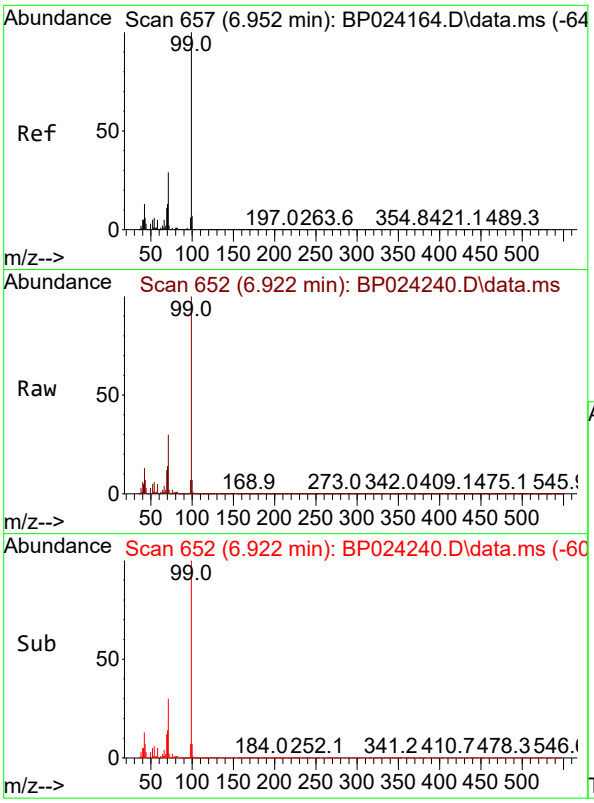


#5
2-Fluorophenol
Concen: 106.830 ng
RT: 5.358 min Scan# 386
Delta R.T. -0.024 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:112 Resp: 1830629

Ion	Ratio	Lower	Upper
112	100		
64	53.9	41.3	61.9
63	26.7	20.6	31.0



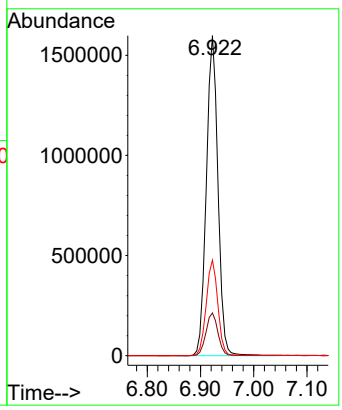


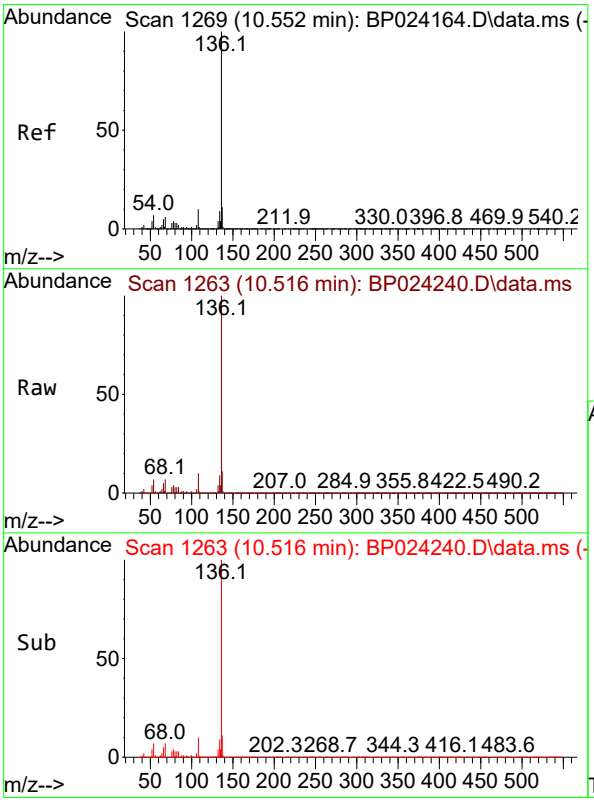
#7
Phenol-d6
Concen: 105.279 ng
RT: 6.922 min Scan# 6
Delta R.T. -0.030 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion: 99 Resp: 2412488

Ion	Ratio	Lower	Upper
99	100		
42	13.3	10.6	16.0
71	29.8	23.3	34.9

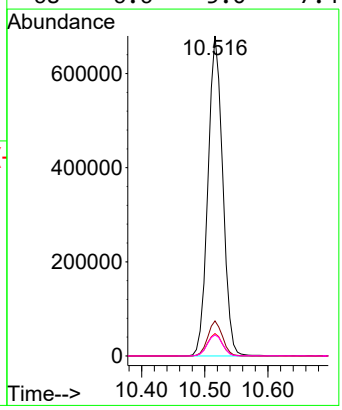


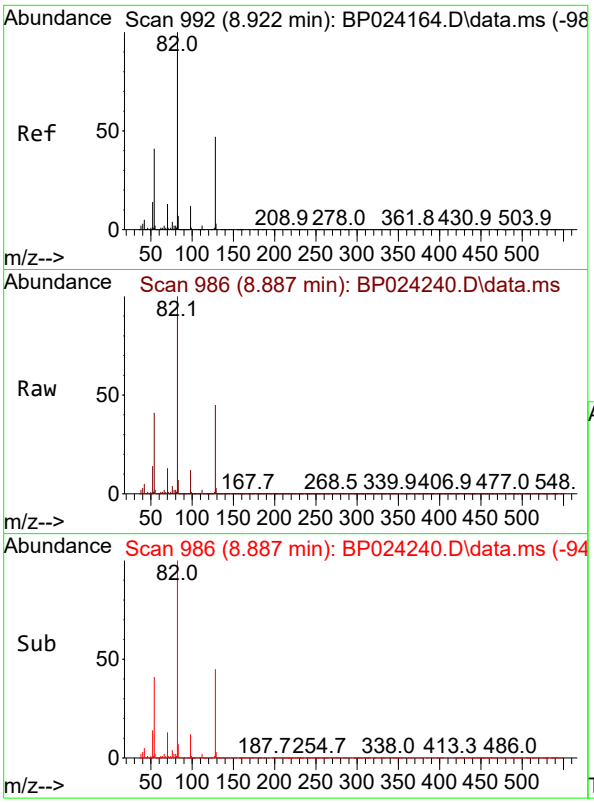


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.035 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:136 Resp: 1106820

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	7.0	5.3	7.9
68	6.6	5.0	7.4



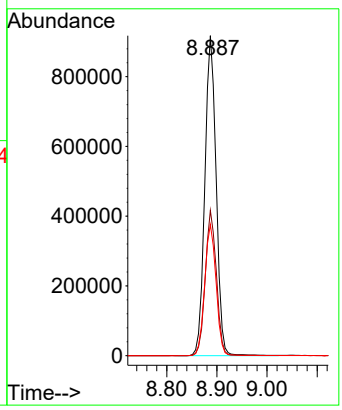


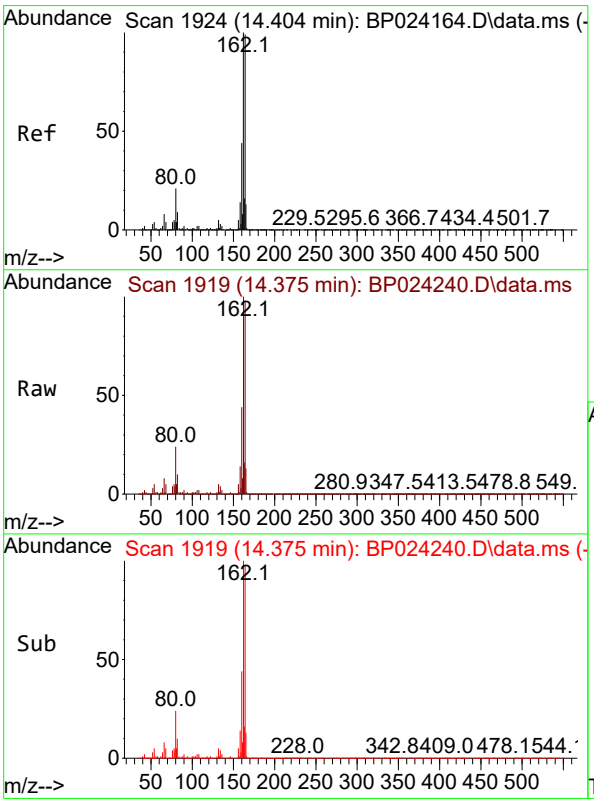
#23
Nitrobenzene-d5
Concen: 73.230 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.035 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion: 82 Resp: 1436557

Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.4	56.0
54	40.9	32.5	48.7

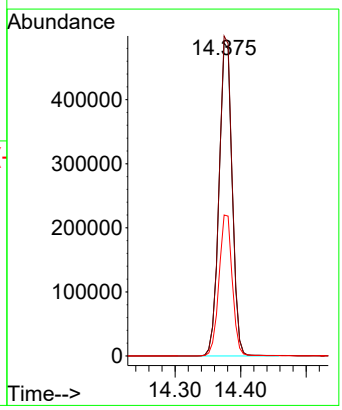


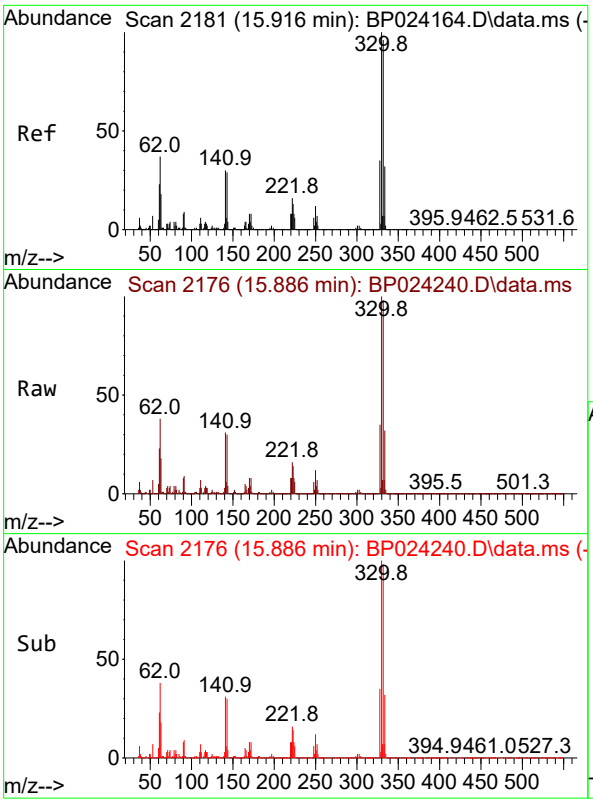


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.375 min Scan# 1919
Delta R.T. -0.030 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:164 Resp: 675246

Ion	Ratio	Lower	Upper
164	100		
162	102.2	80.6	121.0
160	45.0	35.4	53.2



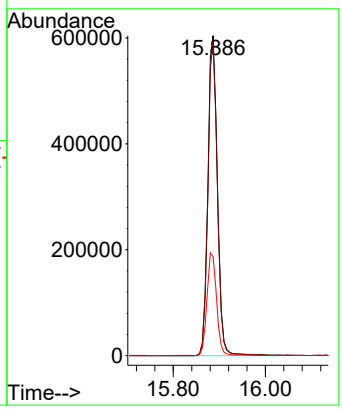


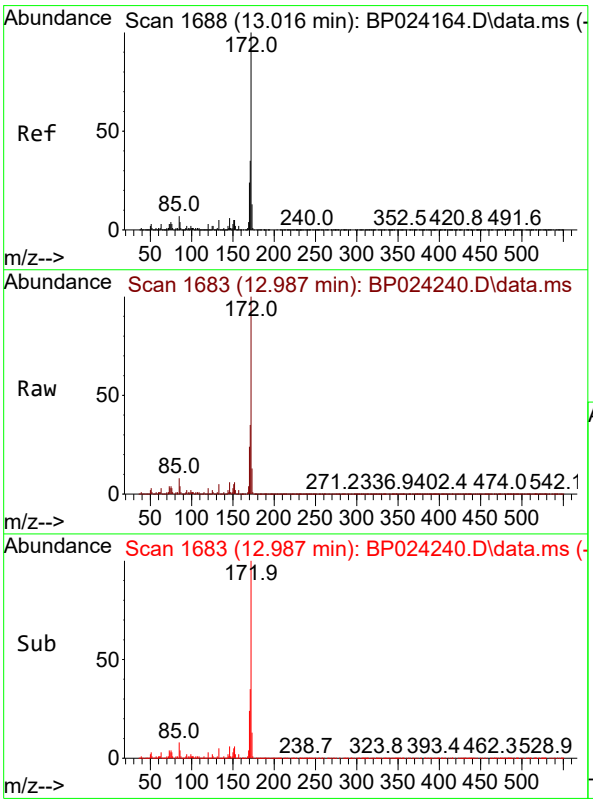
#42
2,4,6-Tribromophenol
Concen: 102.902 ng
RT: 15.886 min Scan# 21
Delta R.T. -0.030 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:330 Resp: 875242

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.6	116.4
141	32.3	25.0	37.6

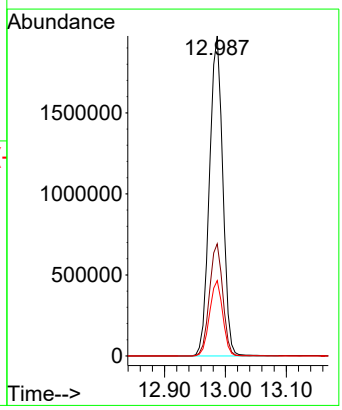


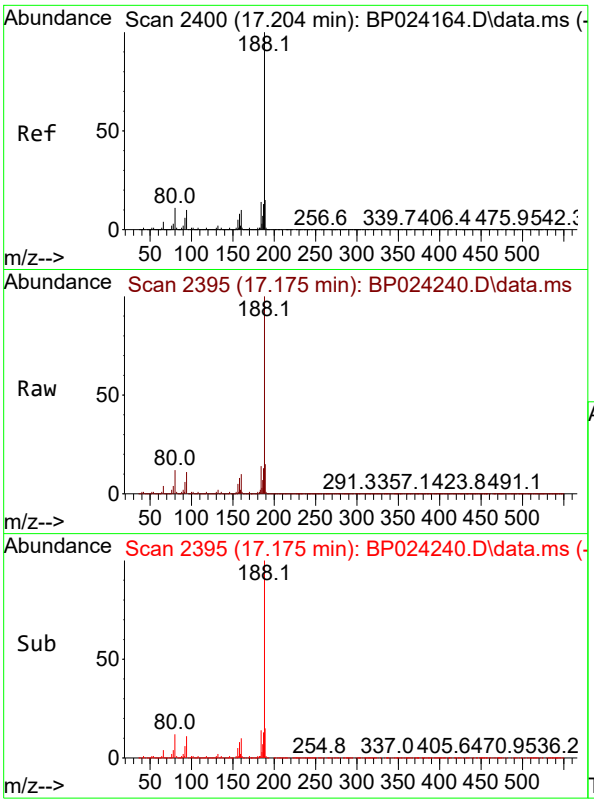


#45
2-Fluorobiphenyl
Concen: 65.568 ng
RT: 12.987 min Scan# 1683
Delta R.T. -0.030 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:172 Resp: 3002639

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.3	42.5
170	23.6	19.0	28.4



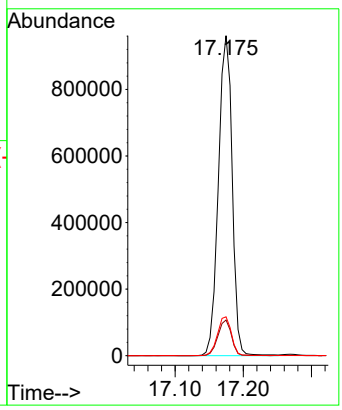


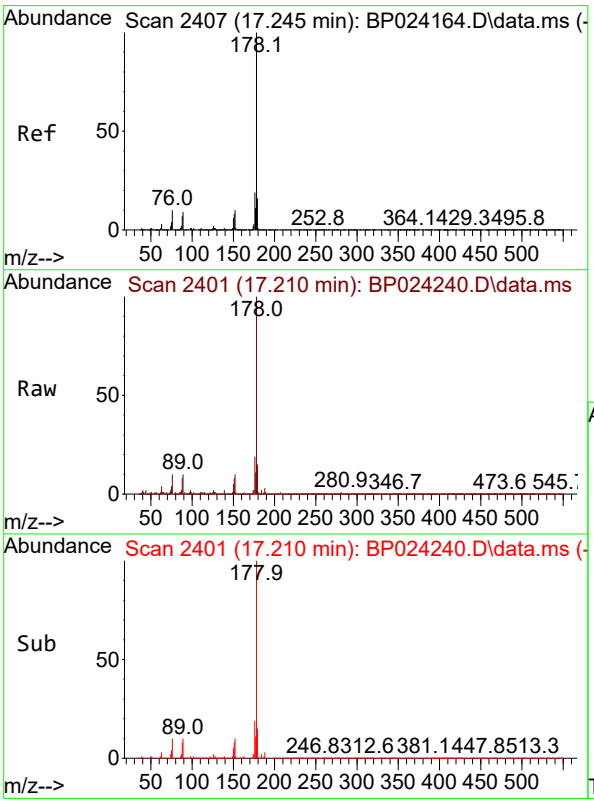
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.175 min Scan# 2
Delta R.T. -0.030 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:188 Resp: 1351996

Ion	Ratio	Lower	Upper
188	100		
94	11.1	8.1	12.1
80	12.2	8.9	13.3

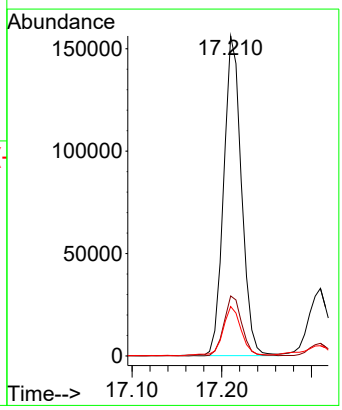


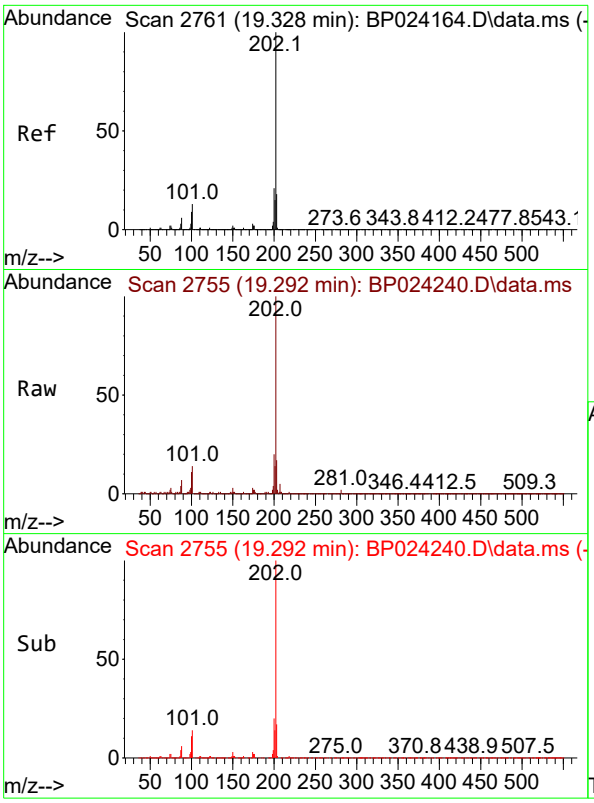


#71
Phenanthrene
Concen: 2.910 ng
RT: 17.210 min Scan# 2401
Delta R.T. -0.035 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:178 Resp: 214910

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.6	23.4
179	15.4	12.5	18.7



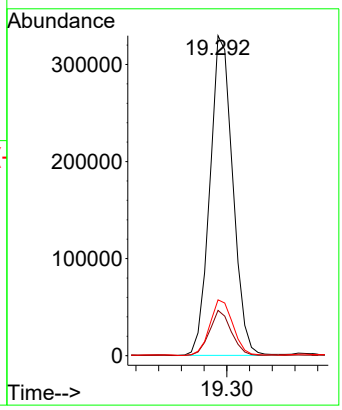


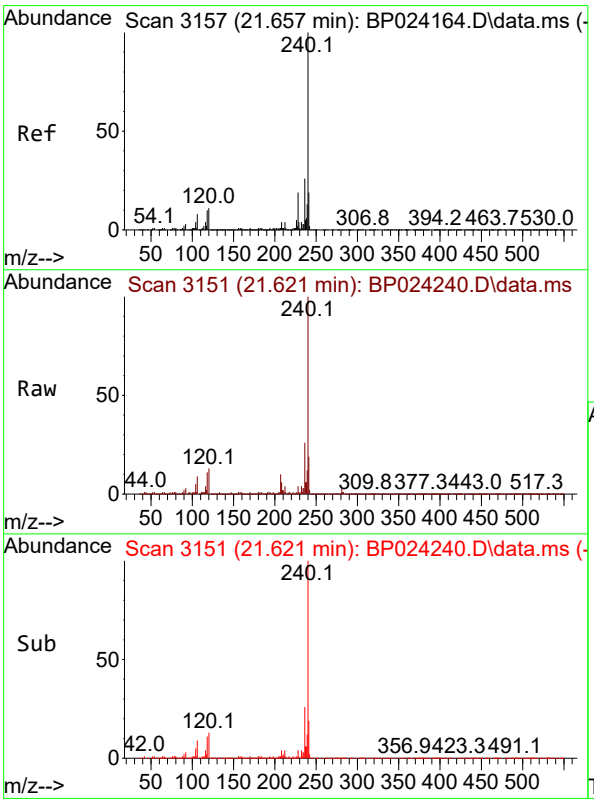
#75
Fluoranthene
Concen: 5.385 ng
RT: 19.292 min Scan# 2
Delta R.T. -0.035 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:202 Resp: 460658

Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	32.5
203	17.5	0.0	37.9

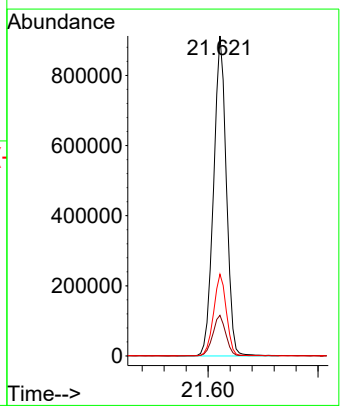


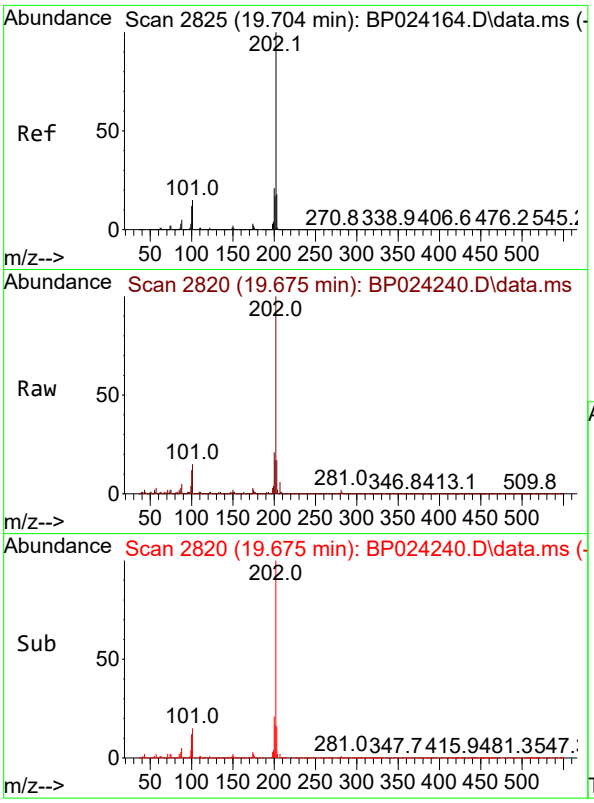


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.621 min Scan# 3151
Delta R.T. -0.035 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:240 Resp: 1469545

Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	25.6	20.4	30.6



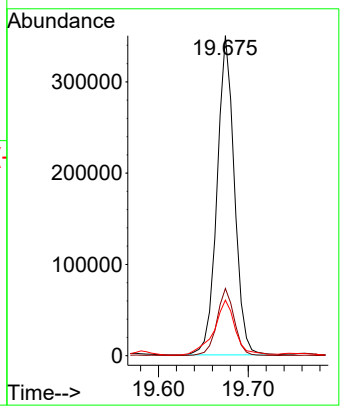


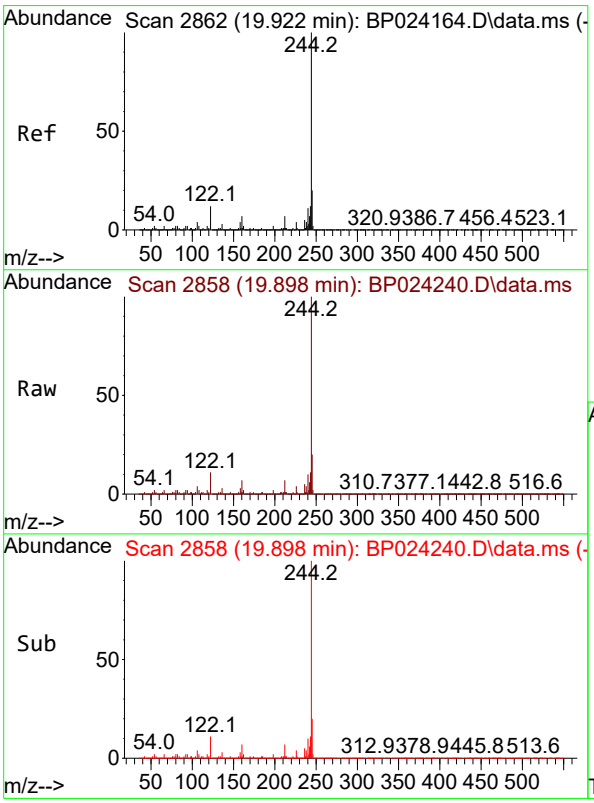
#78
Pyrene
Concen: 5.140 ng
RT: 19.675 min Scan# 2
Delta R.T. -0.030 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:202 Resp: 469635

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.1	25.7
203	17.3	14.2	21.4

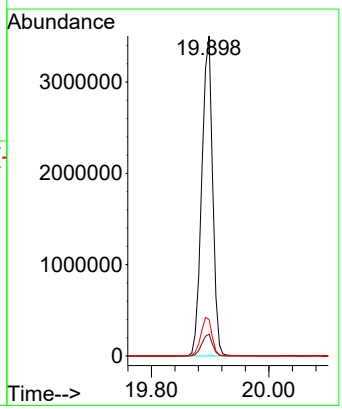


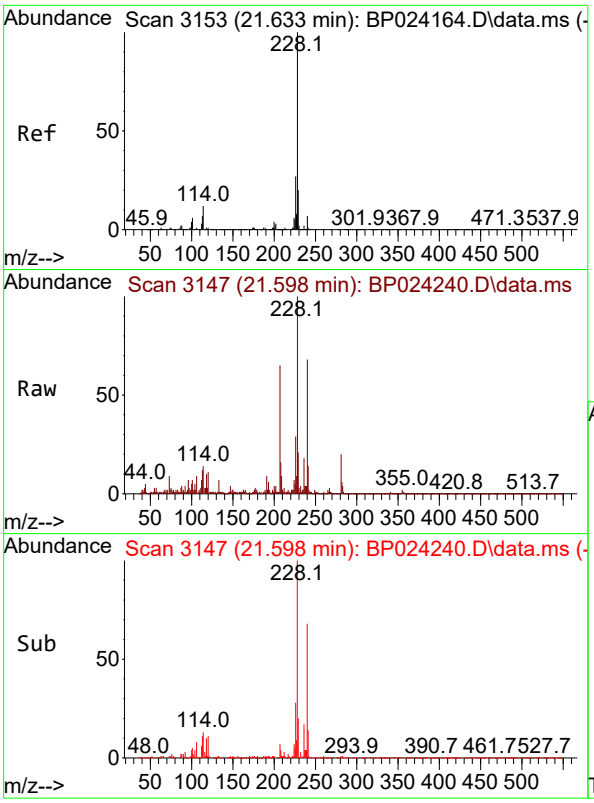


#79
Terphenyl-d14
Concen: 62.860 ng
RT: 19.898 min Scan# 2858
Delta R.T. -0.024 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:244 Resp: 4475088

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	11.4	9.6	14.4



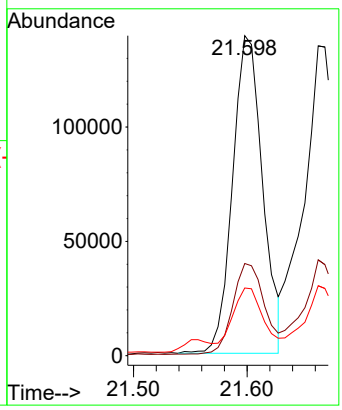


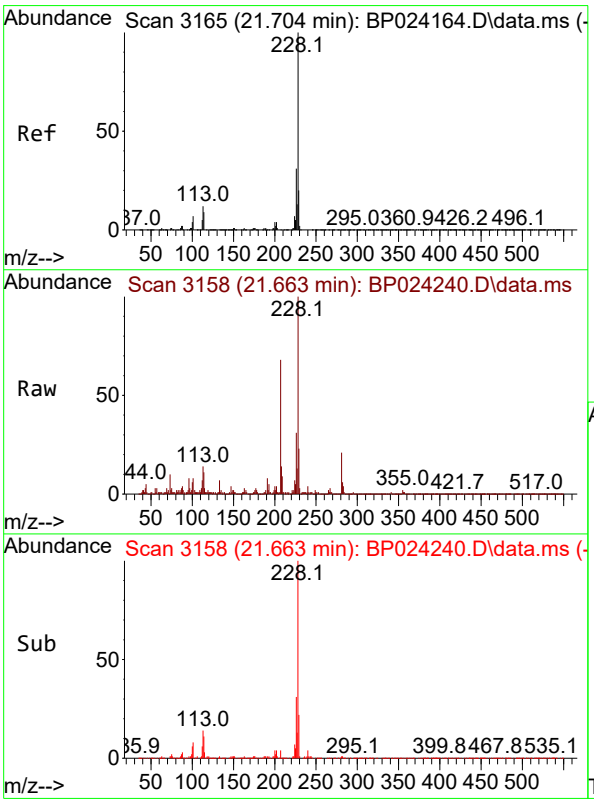
#81
Benzo(a)anthracene
Concen: 2.796 ng
RT: 21.598 min Scan# 3
Delta R.T. -0.035 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:228 Resp: 255473

Ion	Ratio	Lower	Upper
228	100		
226	28.8	21.8	32.8
229	21.2	16.0	24.0

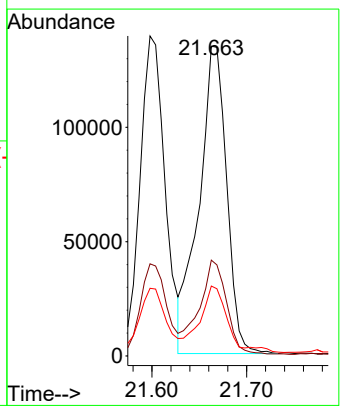


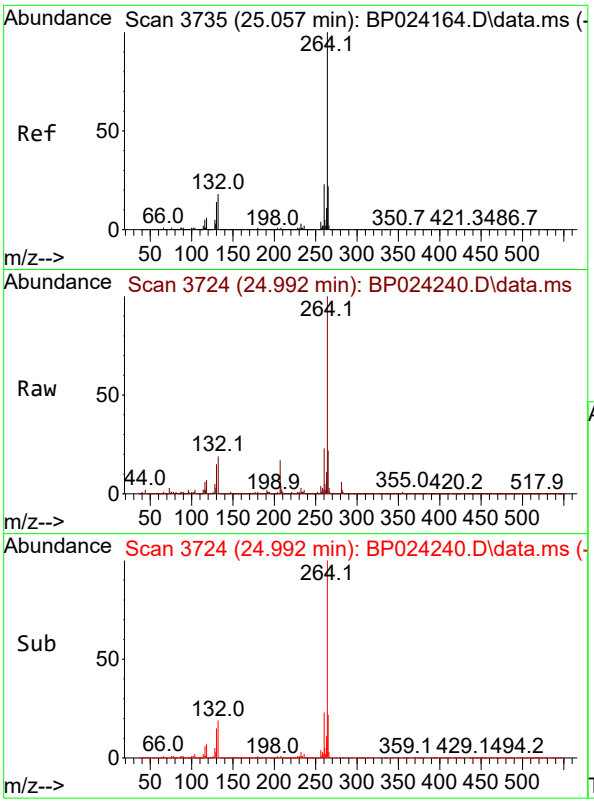


#83
Chrysene
Concen: 3.118 ng
RT: 21.663 min Scan# 3158
Delta R.T. -0.041 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:228 Resp: 273819

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	22.6	16.2	24.2



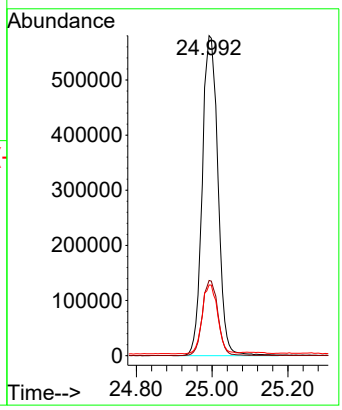


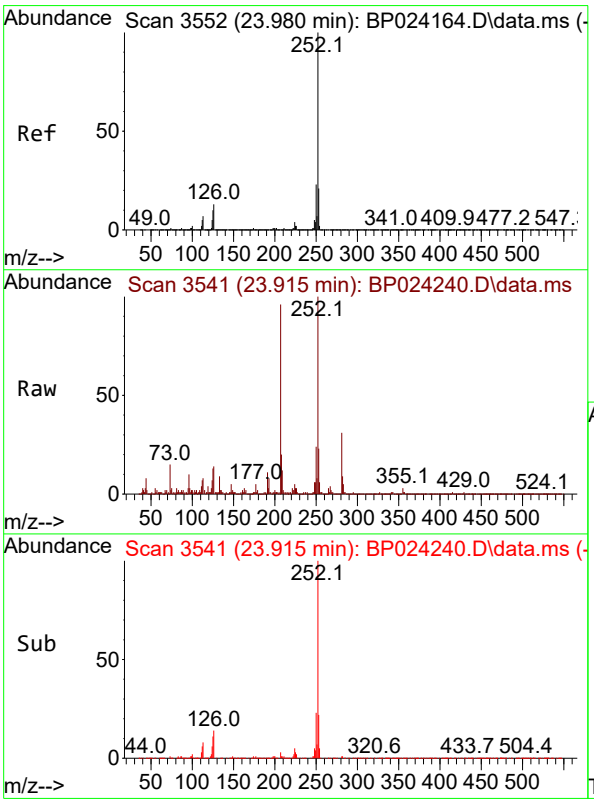
#86
Perylene-d12
Concen: 20.000 ng
RT: 24.992 min Scan# 3
Delta R.T. -0.065 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:264 Resp: 1665459

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.5	27.7
265	22.1	17.7	26.5

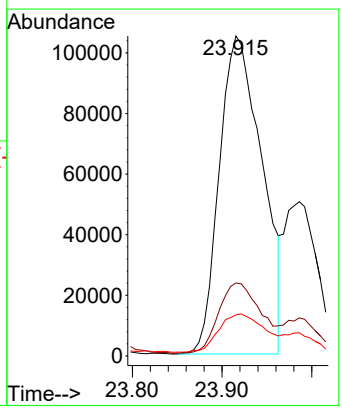


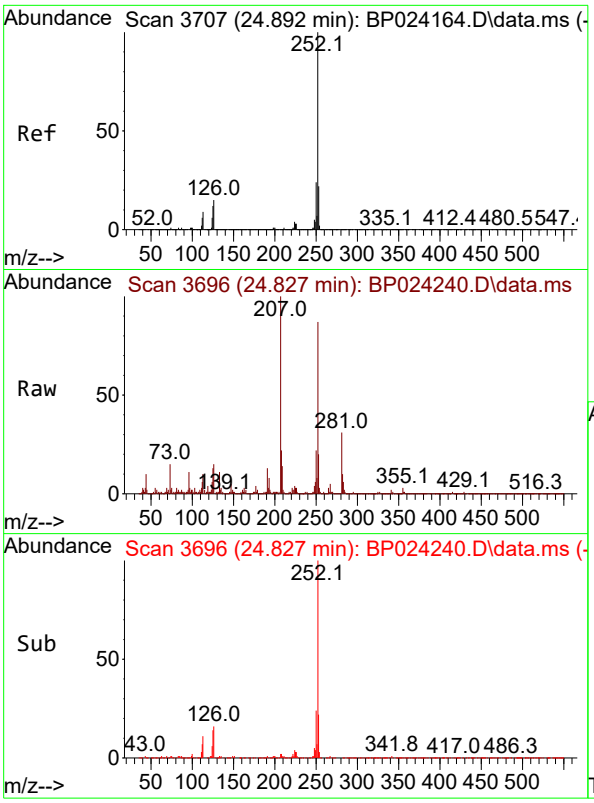


#88
Benzo(b)fluoranthene
Concen: 3.456 ng
RT: 23.915 min Scan# 3541
Delta R.T. -0.065 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Tgt Ion:252 Resp: 347008

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.2	25.8
125	12.8	8.2	12.4#



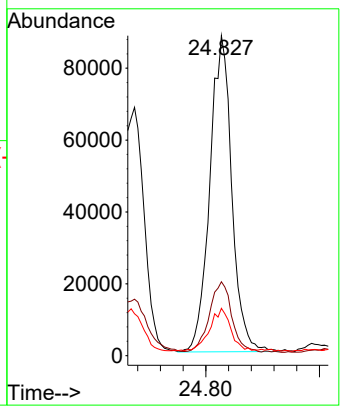


#90
Benzo(a)pyrene
Concen: 2.710 ng
RT: 24.827 min Scan# 3
Delta R.T. -0.065 min
Lab File: BP024240.D
Acq: 09 Apr 2025 18:22

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:252 Resp: 236671

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.0
125	14.8	9.6	14.4#



Sample Results: **BP024240.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024240.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.899	303	308	319	rVB	516946	739410	5.60%	1.016%
2	5.358	379	386	394	rBV	4159870	5806304	43.95%	7.977%
3	6.922	643	652	669	rBV	4014465	6245061	47.28%	8.580%
4	7.740	784	791	798	rBV	1056052	1563765	11.84%	2.148%
5	8.887	979	986	996	rBV	2500125	3907865	29.58%	5.369%
6	9.446	1074	1081	1094	rVB	80028	140502	1.06%	0.193%
7	10.516	1254	1263	1269	rBV	1345537	2218376	16.79%	3.048%
8	12.987	1674	1683	1701	rBV	5664759	8703197	65.88%	11.957%
9	14.375	1910	1919	1925	rBV	2108560	2922775	22.13%	4.015%
10	15.751	2147	2153	2161	rBV	775094	1129671	8.55%	1.552%
11	15.886	2169	2176	2185	rBV	4306445	6446570	48.80%	8.856%
12	17.175	2388	2395	2399	rBV2	2419788	3441649	26.05%	4.728%
13	17.210	2399	2401	2408	rVB	376376	464620	3.52%	0.638%
14	18.116	2550	2555	2565	rBV2	660838	977827	7.40%	1.343%
15	18.275	2577	2582	2586	rBV2	96098	187969	1.42%	0.258%
16	19.292	2750	2755	2764	rBV	797023	1191185	9.02%	1.636%
17	19.439	2776	2780	2786	rBV2	195263	254327	1.93%	0.349%
18	19.580	2800	2804	2810	rVB	672534	768787	5.82%	1.056%
19	19.675	2812	2820	2825	rVV	824209	1250285	9.46%	1.718%
20	19.898	2852	2858	2869	rVB	9471598	13209906	100.00%	18.148%
21	20.710	2992	2996	3002	rBV	834841	1030218	7.80%	1.415%
22	21.292	3091	3095	3100	rBV3	295818	487454	3.69%	0.670%
23	21.621	3143	3151	3156	rBV2	2602647	4831752	36.58%	6.638%
24	21.663	3156	3158	3170	rVB	373073	621547	4.71%	0.854%
25	24.998	3716	3725	3734	rBV	1527773	4248736	32.16%	5.837%

Sum of corrected areas: 72789758

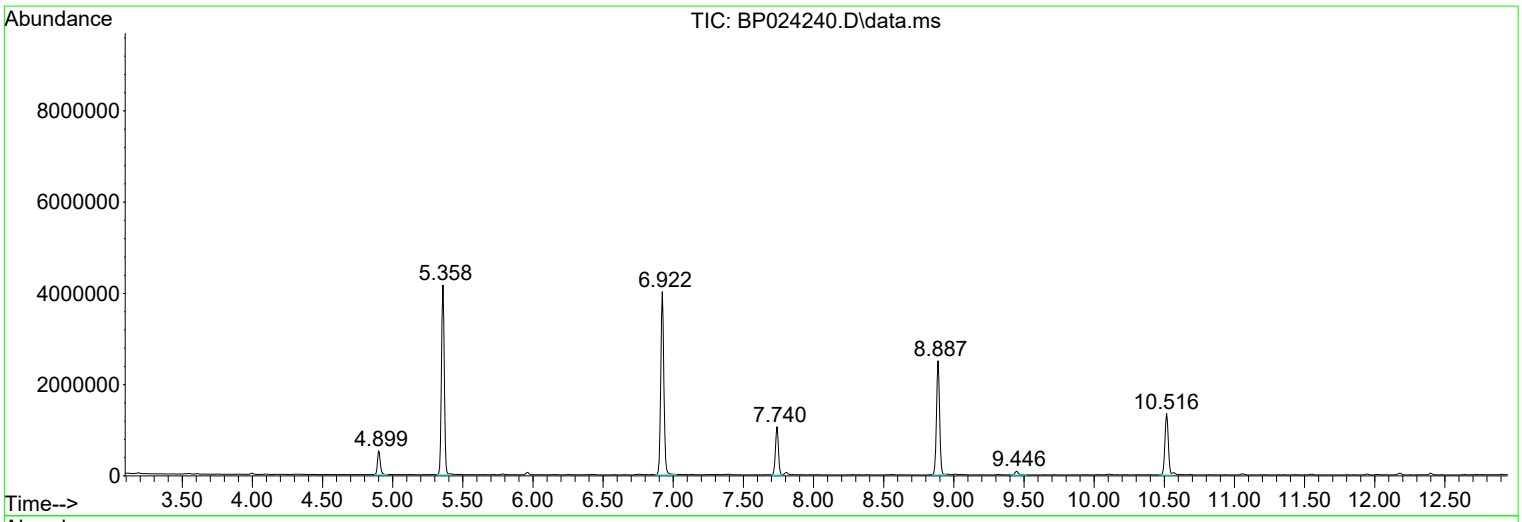
Sample Results: **BP024240.D**

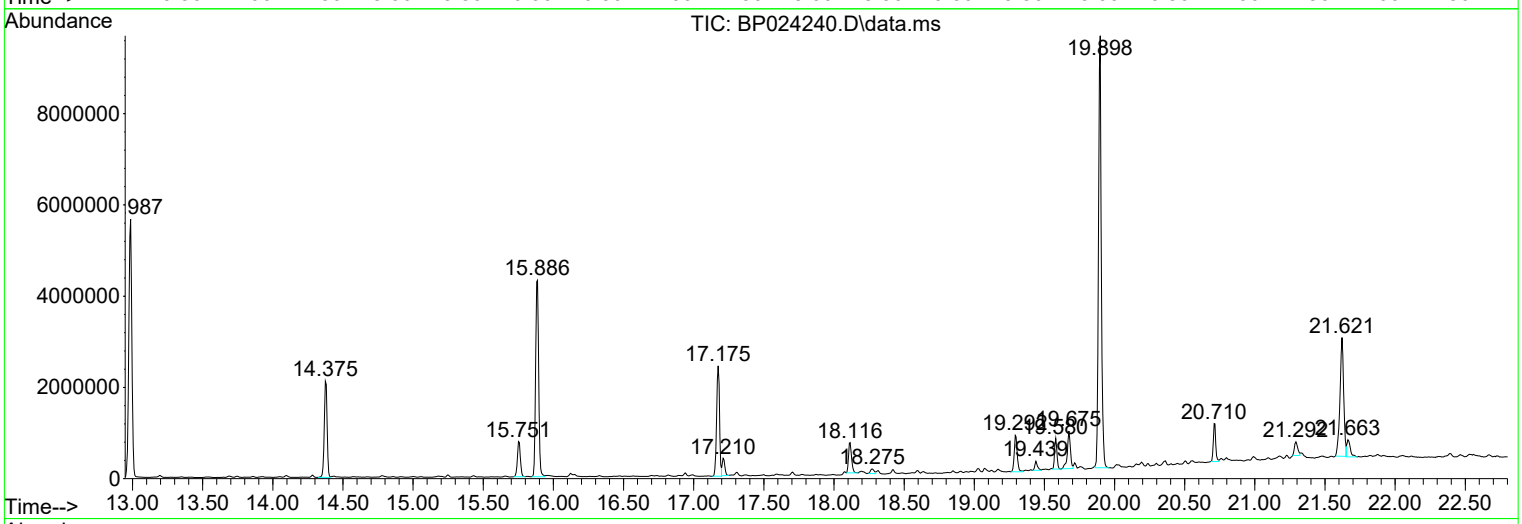
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

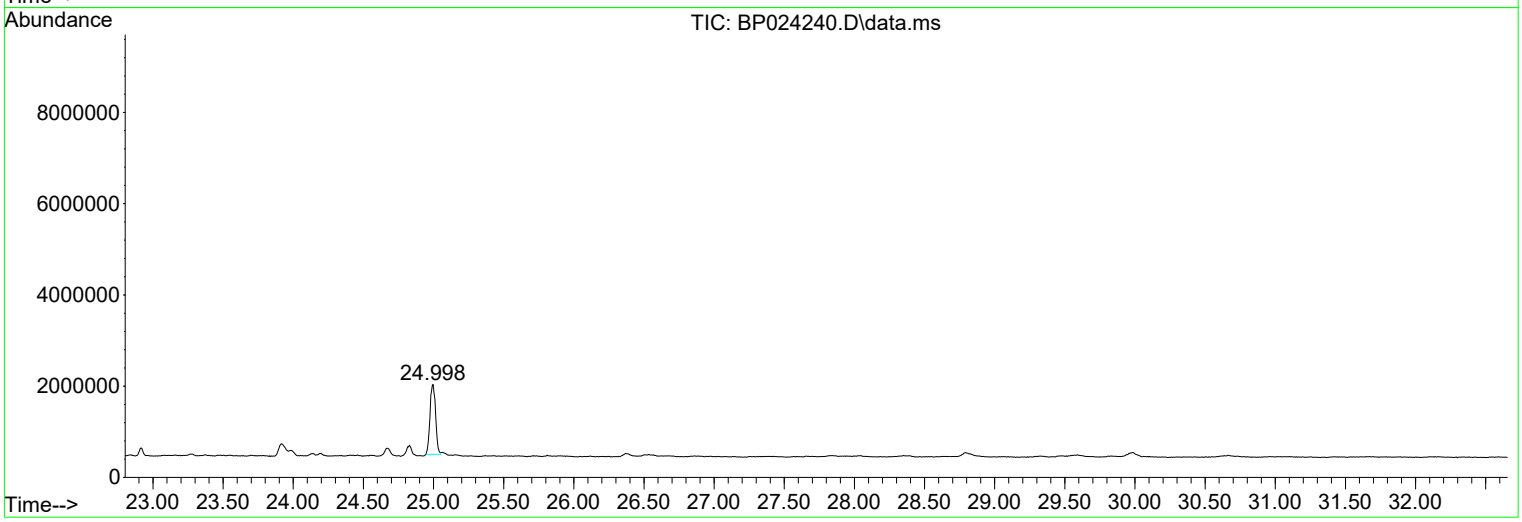
Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

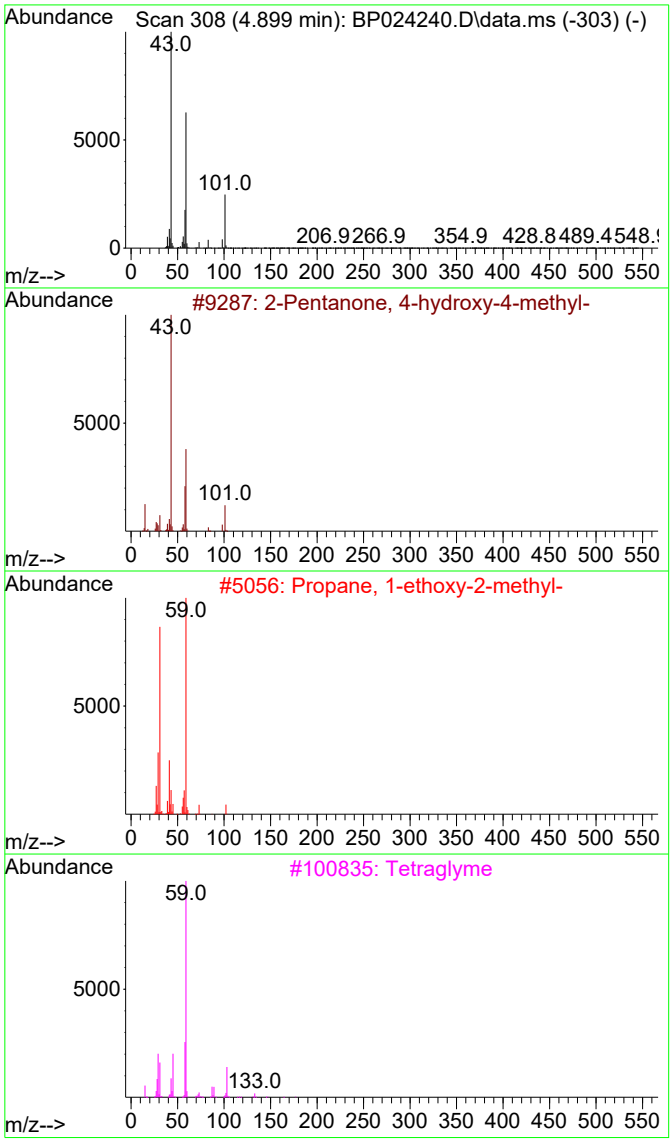
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

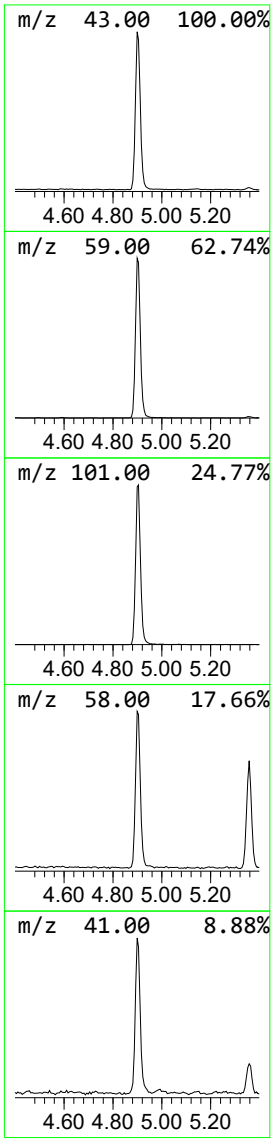
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.899	9.46 ng	739410	1,4-Dichlorobenzene-d4	7.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	38
3	Tetraglyme	222	C10H22O5	000143-24-8	25
4	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	23
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

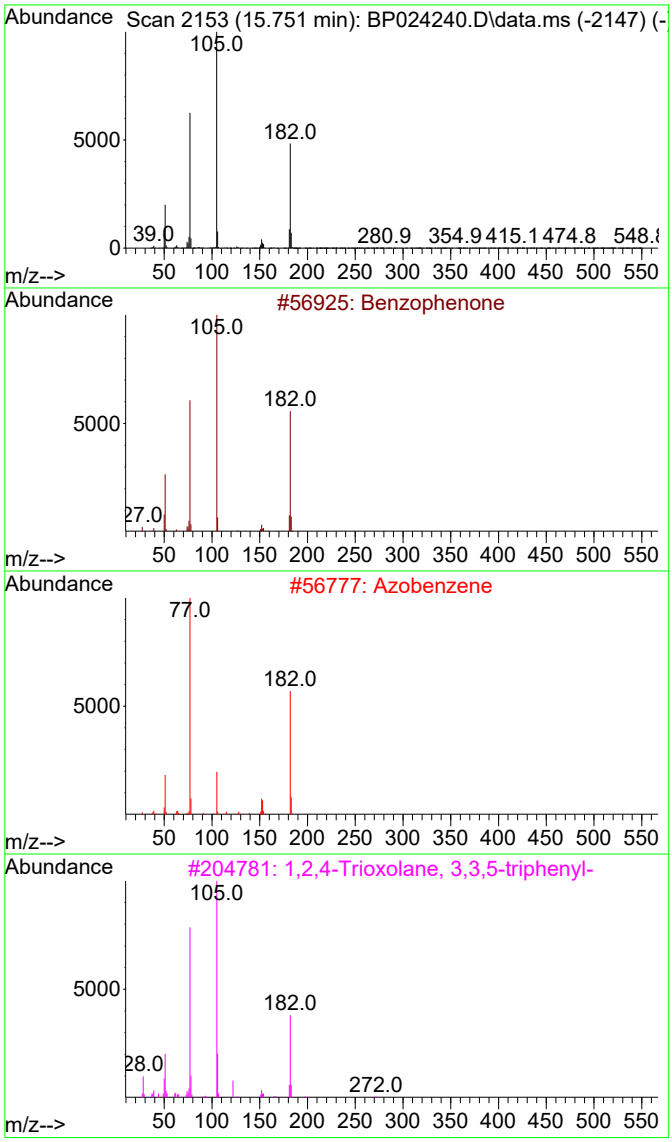
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

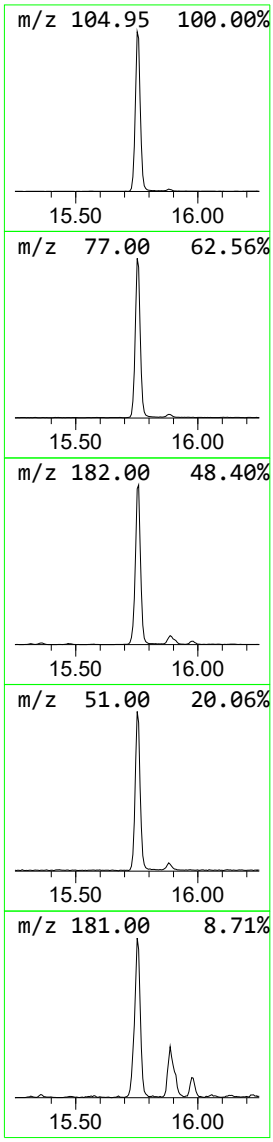
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.751	7.73 ng	1129670	Acenaphthene-d10	14.375

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	53
3	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	50
4	Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	50
5	Benzene, 4-methyl-1,2-dinitro-	182	C7H6N2O4	000610-39-9	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

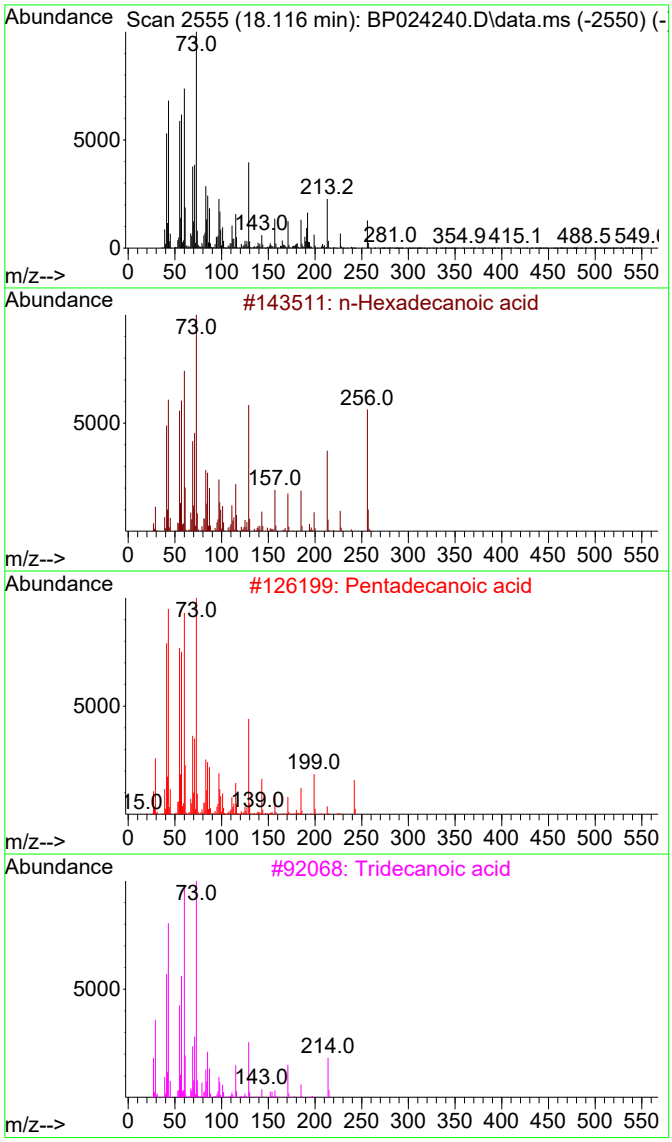
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

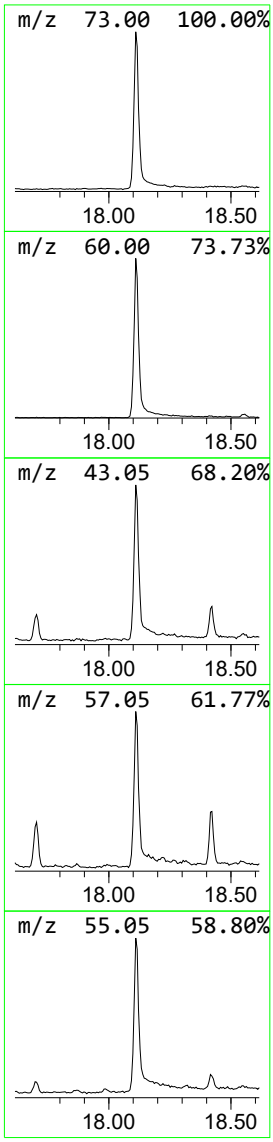
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.116	5.68 ng	977827	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	76
3	Tridecanoic acid	214	C13H26O2	000638-53-9	70
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	64
5	n-Decanoic acid	172	C10H20O2	000334-48-5	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

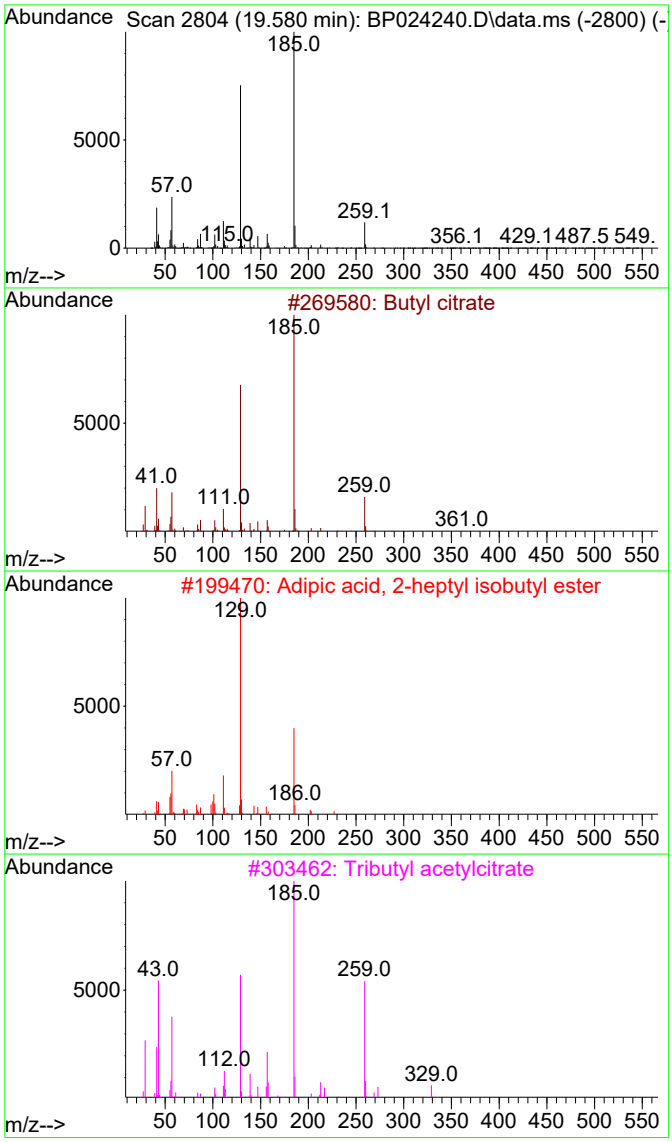
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

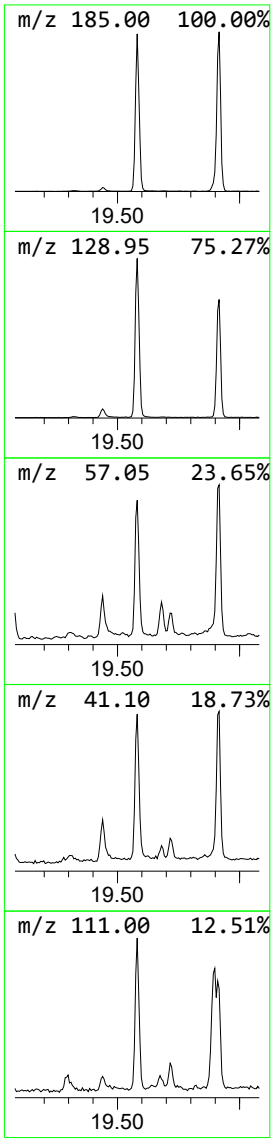
****

Peak Number 4 Butyl citrate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.580	3.18 ng	768787	Chrysene-d12	21.622

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	91
2	Adipic acid, 2-heptyl isobutyl e...	300	C17H32O4	1000353-64-3	64
3	Tributyl acetylcitrate	402	C20H34O8	000077-90-7	59
4	Adipic acid, 3,3-dimethylbut-2-y...	286	C16H30O4	1000353-66-7	56
5	Adipic acid, 4-bromophenyl butyl...	356	C16H21BrO4	1000324-37-9	56





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

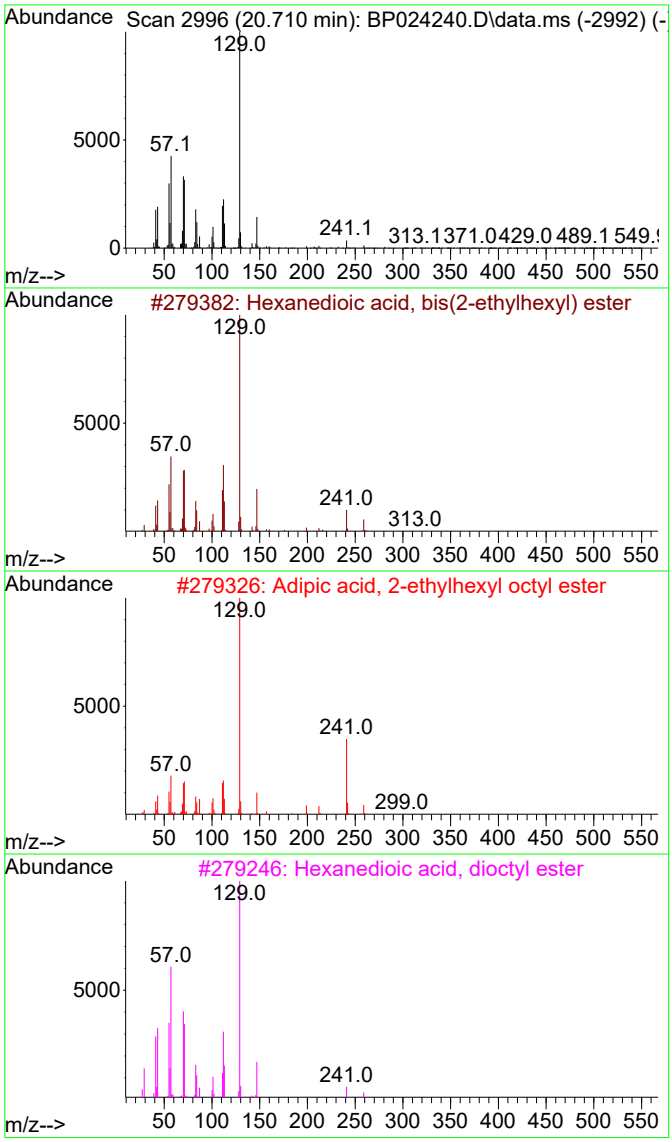
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

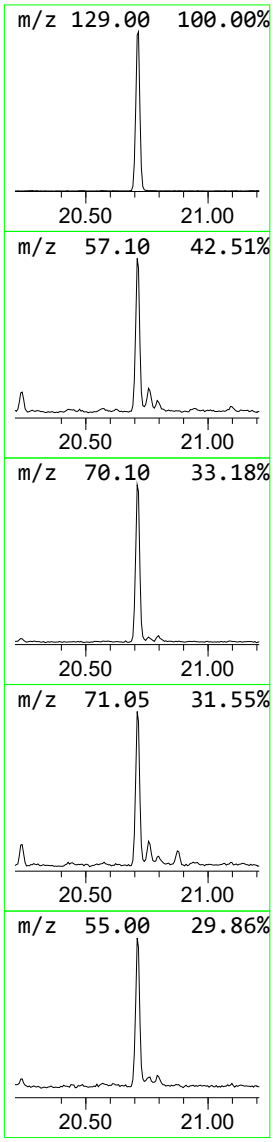
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Hexanedioic acid, bis(2-eth... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.710	4.26 ng	1030220	Chrysene-d12	21.622

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	91
2	Adipic acid, 2-ethylhexyl octyl ...	370	C22H42O4	1000324-48-6	90
3	Hexanedioic acid, dioctyl ester	370	C22H42O4	000123-79-5	70
4	Hexanedioic acid, mono(2-ethylhe...	258	C14H26O4	004337-65-9	64
5	Adipic acid, 2-ethylhexyl isobut...	314	C18H34O4	1010324-48-0	59





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

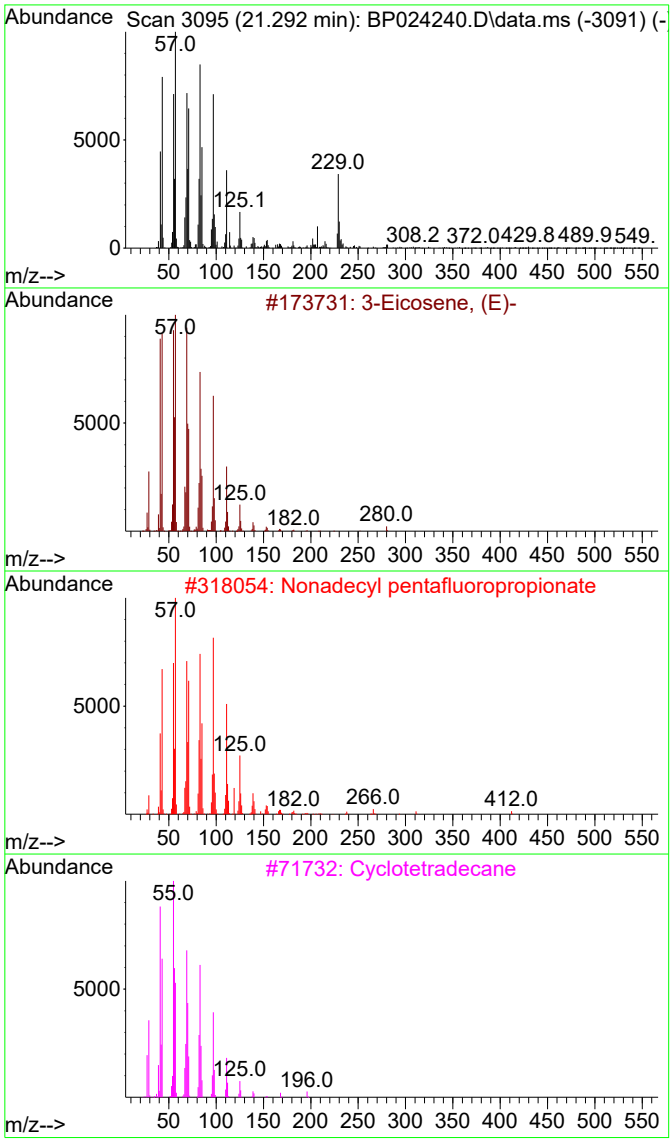
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

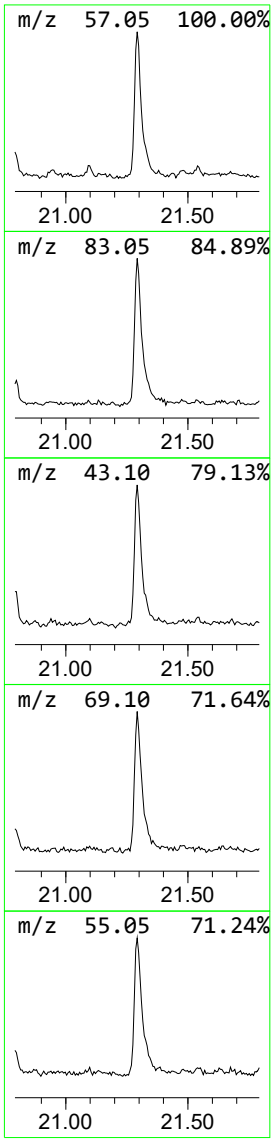
****

Peak Number 6 3-Eicosene, (E)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.292	2.02 ng	487454	Chrysene-d12	21.622

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	96
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	87
3	Cyclotetradecane	196	C14H28	000295-17-0	81
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	76
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024240.D
Acq On : 09 Apr 2025 18:22
Operator : RC/JU
Sample : Q1746-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.899	9.5	ng	739410	1	7.740	1563770	20.0
Benzophenone	15.751	7.7	ng	1129670	3	14.375	2922780	20.0
n-Hexadecanoic ...	18.116	5.7	ng	977827	4	17.175	3441650	20.0
Butyl citrate	19.580	3.2	ng	768787	5	21.622	4831750	20.0
Hexanedioic aci...	20.710	4.3	ng	1030220	5	21.622	4831750	20.0
3-Eicosene, (E)-	21.292	2.0	ng	487454	5	21.622	4831750	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Time: Apr 09 15:55:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

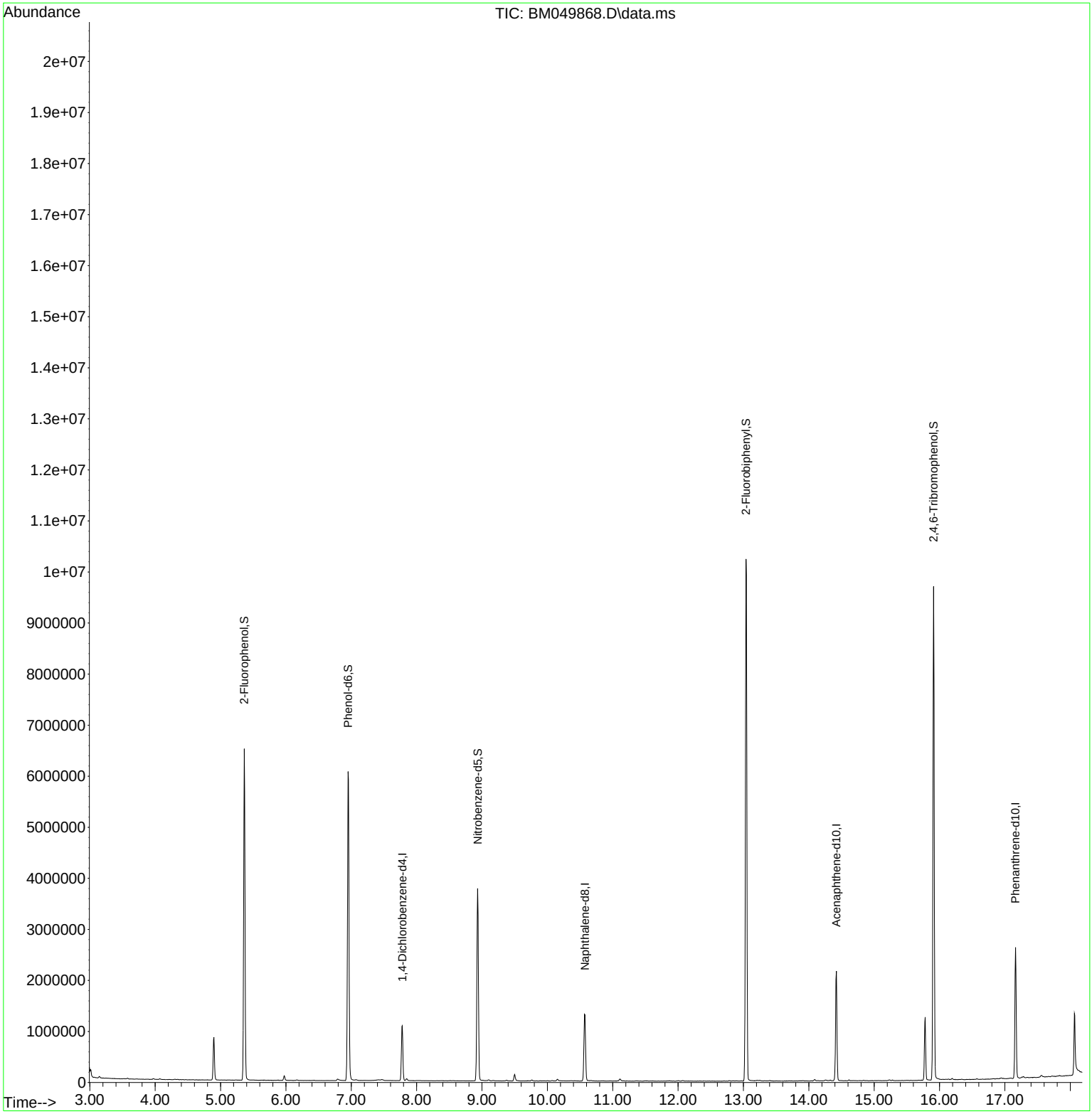
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.781	152	322464	20.000	ng		0.00
21) Naphthalene-d8	10.575	136	1148080	20.000	ng		0.00
39) Acenaphthene-d10	14.421	164	770952	20.000	ng		0.00
64) Phenanthrene-d10	17.162	188	1525445	20.000	ng		0.00
76) Chrysene-d12	21.397	240	1431866	20.000	ng		0.00
86) Perylene-d12	24.397	264	1579355	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2892852	152.336	ng		0.00
7) Phenol-d6	6.951	99	3668334	155.260	ng		0.00
23) Nitrobenzene-d5	8.934	82	2156634	104.603	ng		0.00
42) 2,4,6-Tribromophenol	15.910	330	1983101	176.845	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	5729173	100.769	ng		0.00
79) Terphenyl-d14	19.792	244	8296901	108.591	ng		0.00
Target Compounds							Qvalue
83) Chrysene	21.439	228	199224	2.202	ng		99
88) Benzo(b)fluoranthene	23.450	252	292483	2.900	ng	#	97
89) Benzo(k)fluoranthene	23.509	252	255087	2.610	ng	#	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

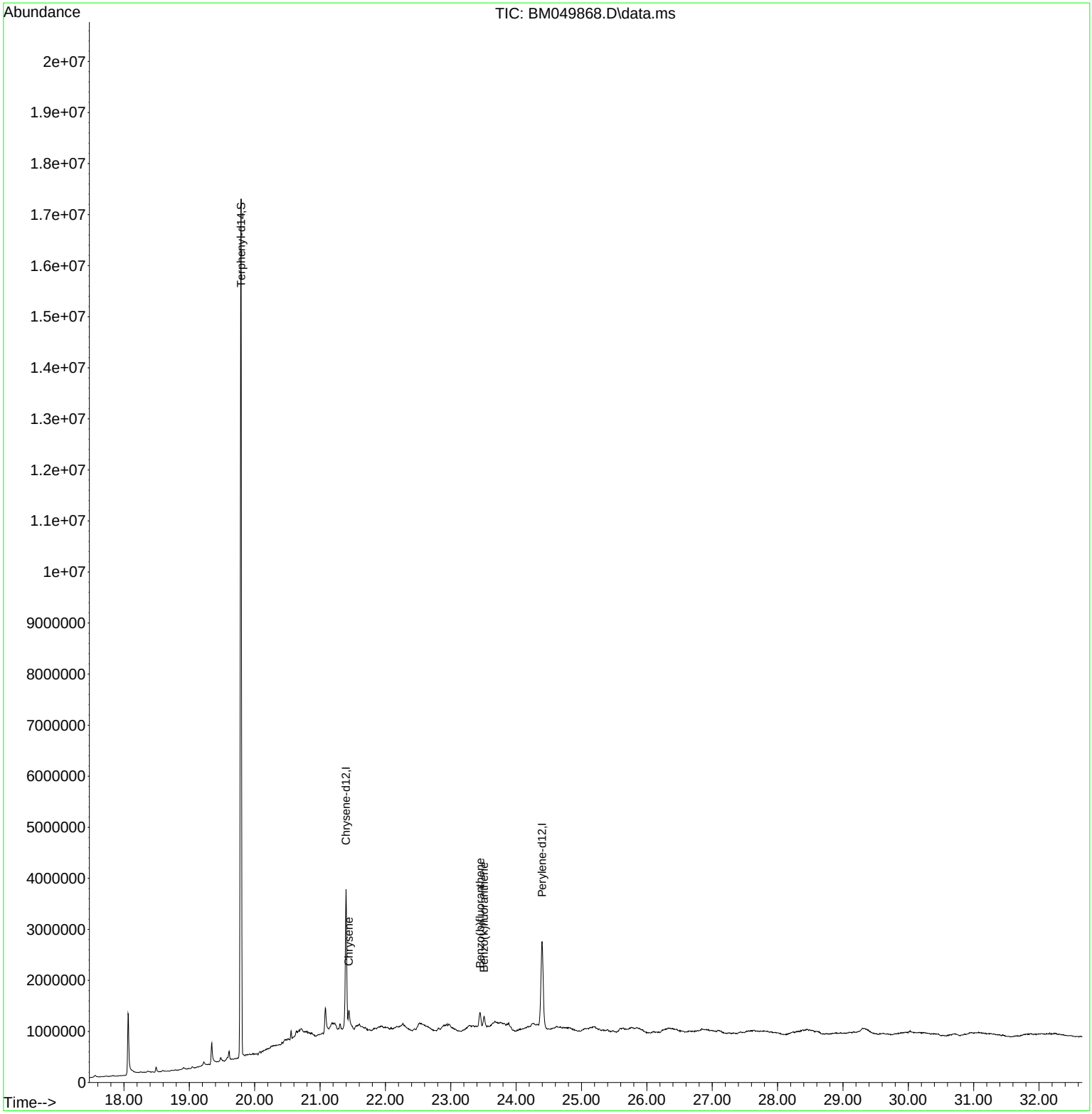
Quant Time: Apr 09 15:55:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

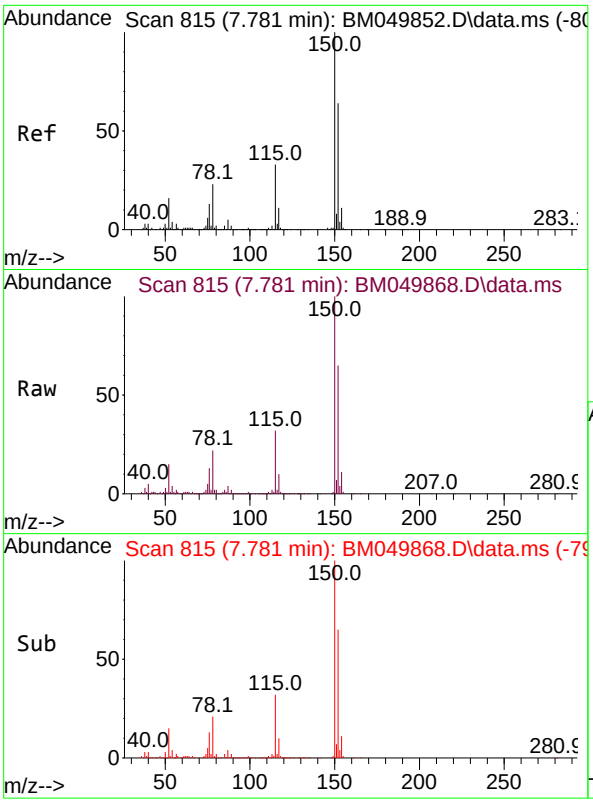


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Time: Apr 09 15:55:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



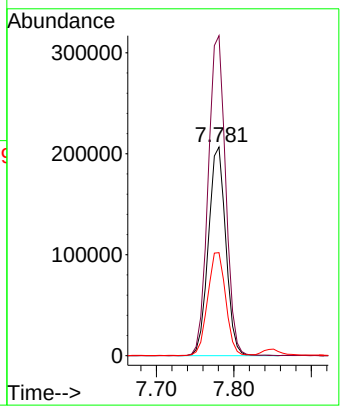


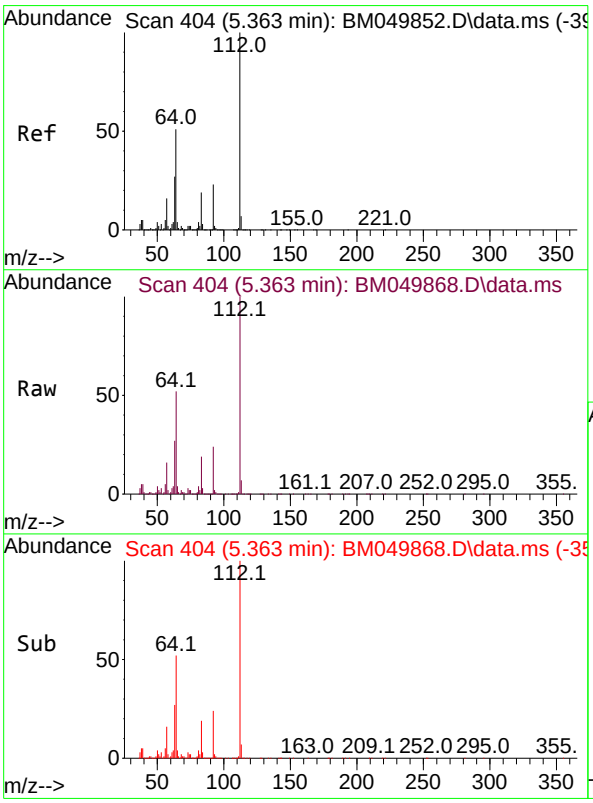
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.781 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion:152 Resp: 322464

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.3	186.5
115	49.4	41.1	61.7

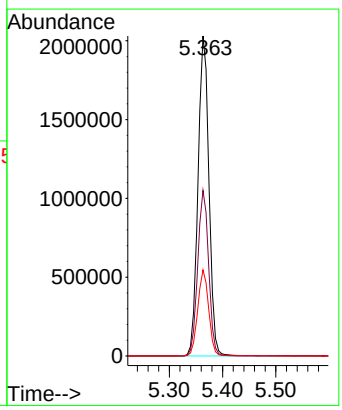


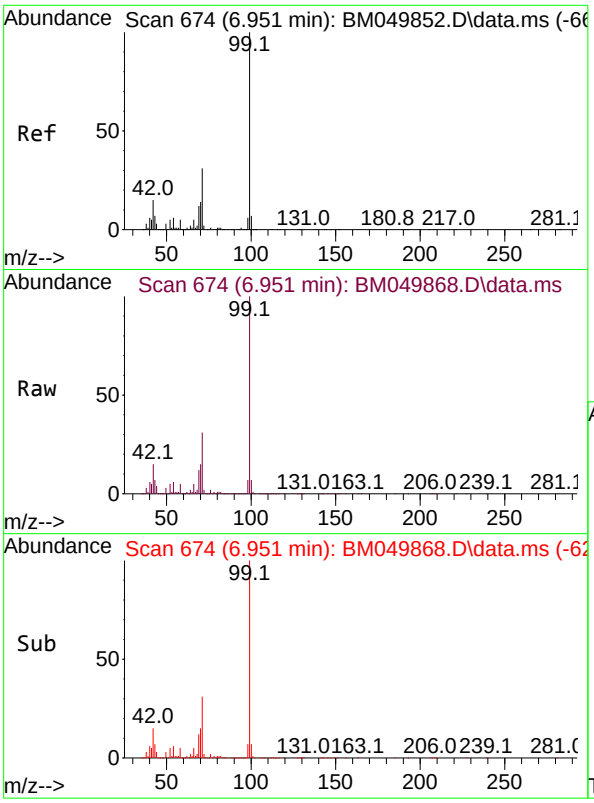


#5
2-Fluorophenol
Concen: 152.336 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Tgt Ion:112 Resp: 2892852

Ion	Ratio	Lower	Upper
112	100		
64	51.8	41.0	61.6
63	26.9	21.5	32.3



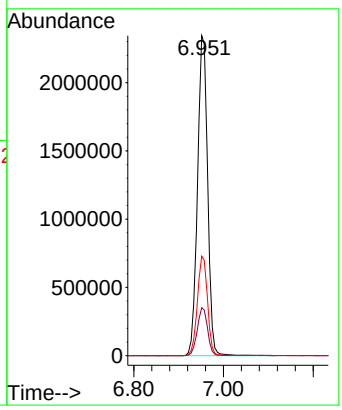


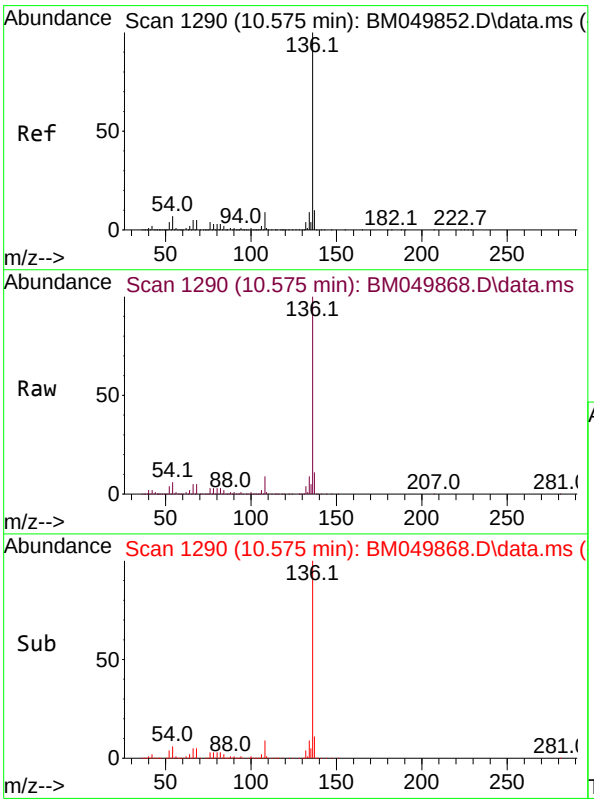
#7
Phenol-d6
Concen: 155.260 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion: 99 Resp: 3668334

Ion	Ratio	Lower	Upper
99	100		
42	15.0	12.1	18.1
71	31.1	24.9	37.3

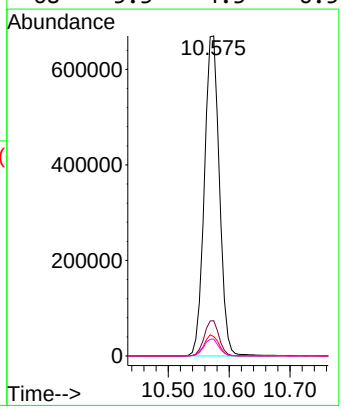


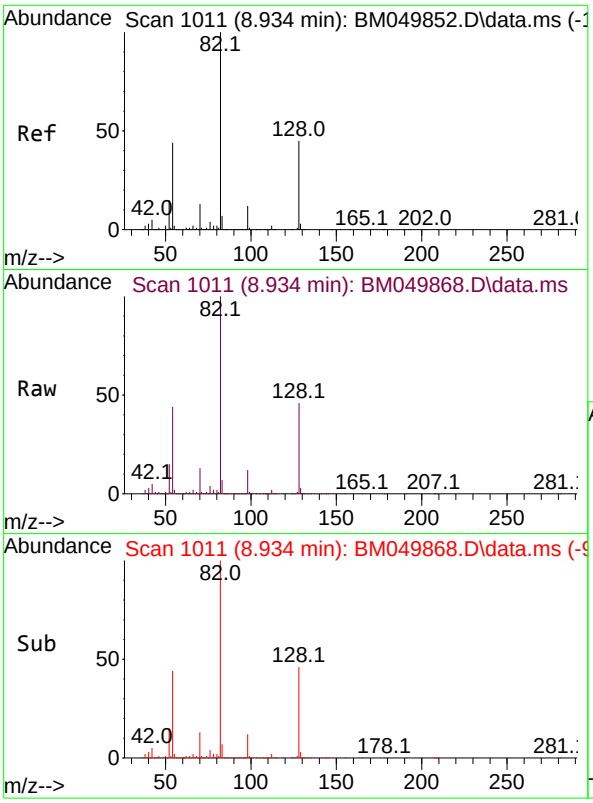


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Tgt Ion:136 Resp: 1148080

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.4	12.6
54	6.1	5.3	7.9
68	5.3	4.3	6.5



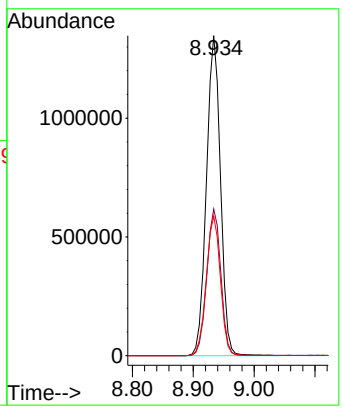


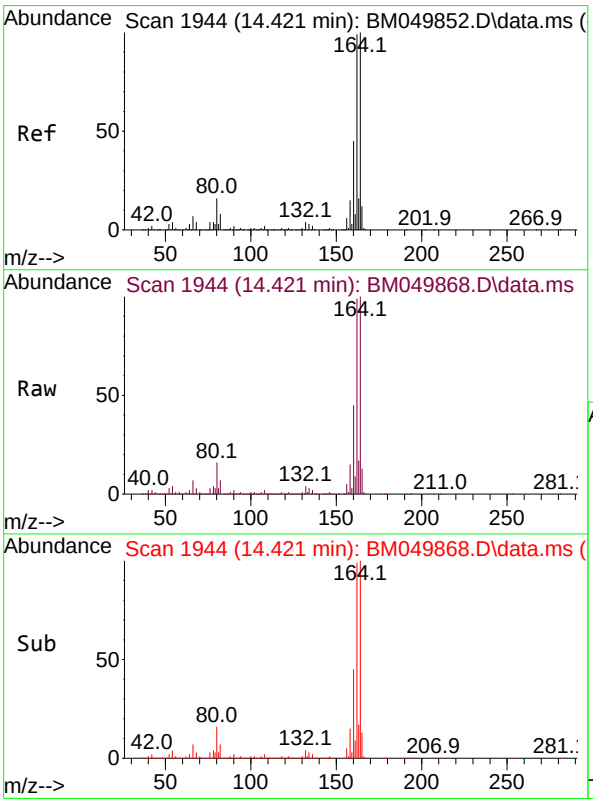
#23
Nitrobenzene-d5
Concen: 104.603 ng
RT: 8.934 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion: 82 Resp: 2156634

Ion	Ratio	Lower	Upper
82	100		
128	45.8	36.2	54.2
54	43.6	35.0	52.6

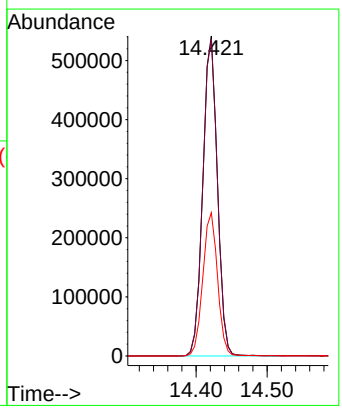


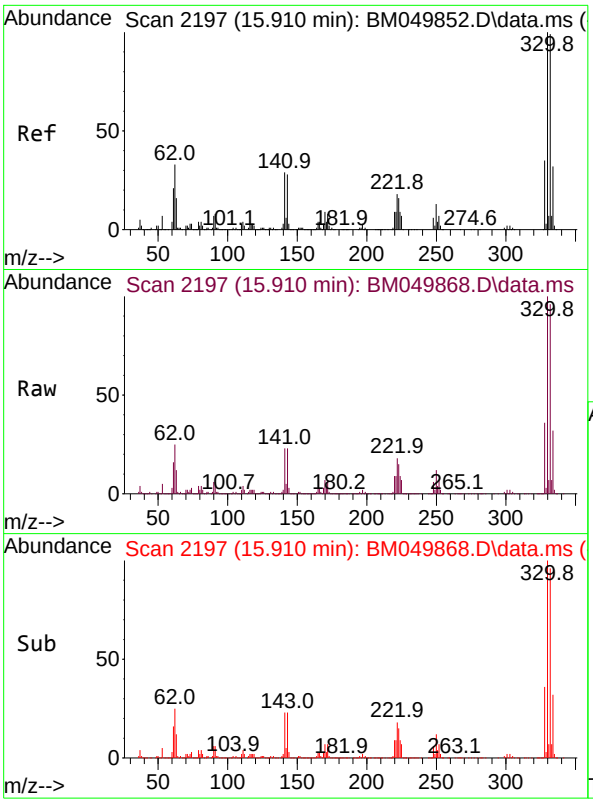


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.421 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Tgt Ion:164 Resp: 770952

Ion	Ratio	Lower	Upper
164	100		
162	99.0	79.4	119.0
160	44.8	36.2	54.2



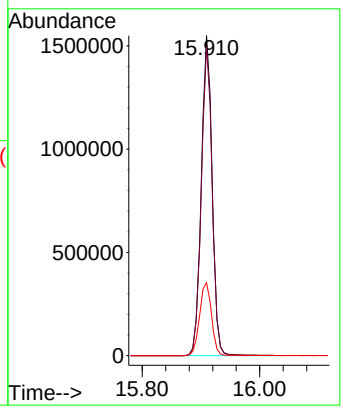


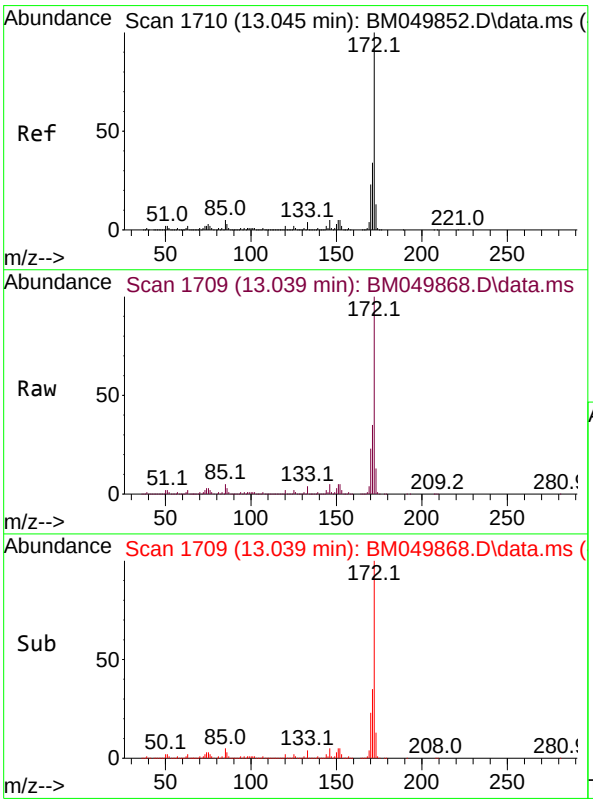
#42
2,4,6-Tribromophenol
Concen: 176.845 ng
RT: 15.910 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion:330 Resp: 1983101

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.0	117.0
141	25.0	23.5	35.3

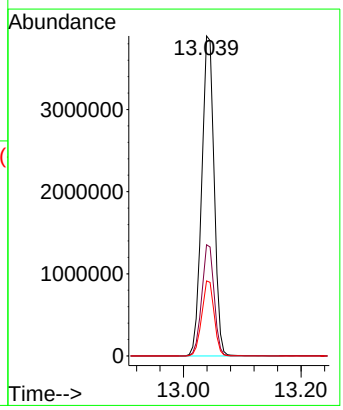


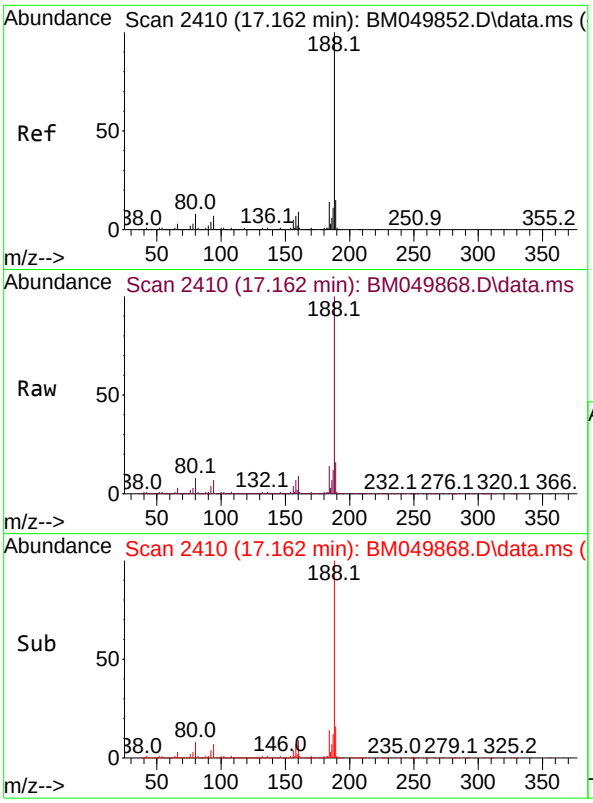


#45
2-Fluorobiphenyl
Concen: 100.769 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Tgt Ion:172 Resp: 5729173

Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.4	41.2
170	23.5	18.6	28.0



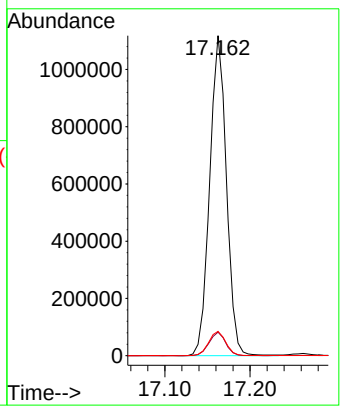


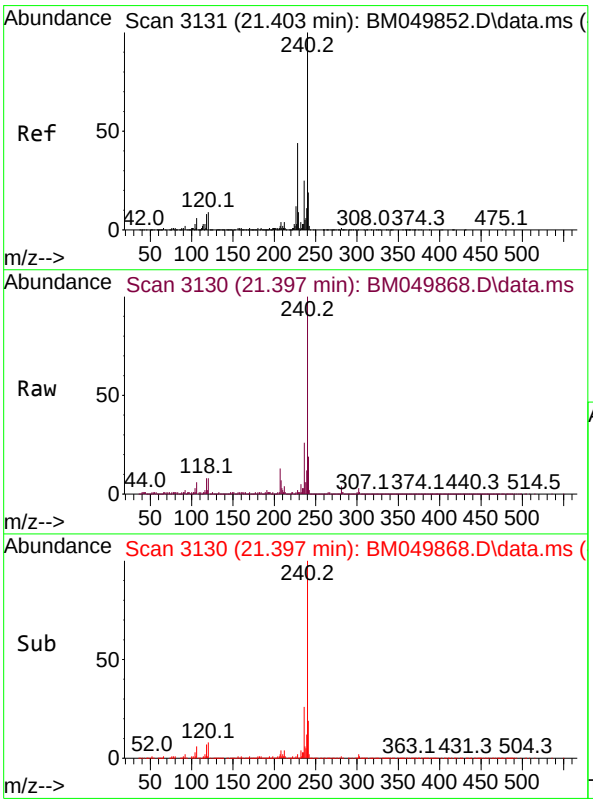
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.162 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion:188 Resp: 1525445

Ion	Ratio	Lower	Upper
188	100		
94	7.4	5.8	8.6
80	7.6	6.4	9.6

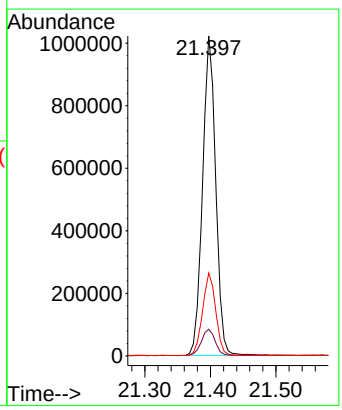


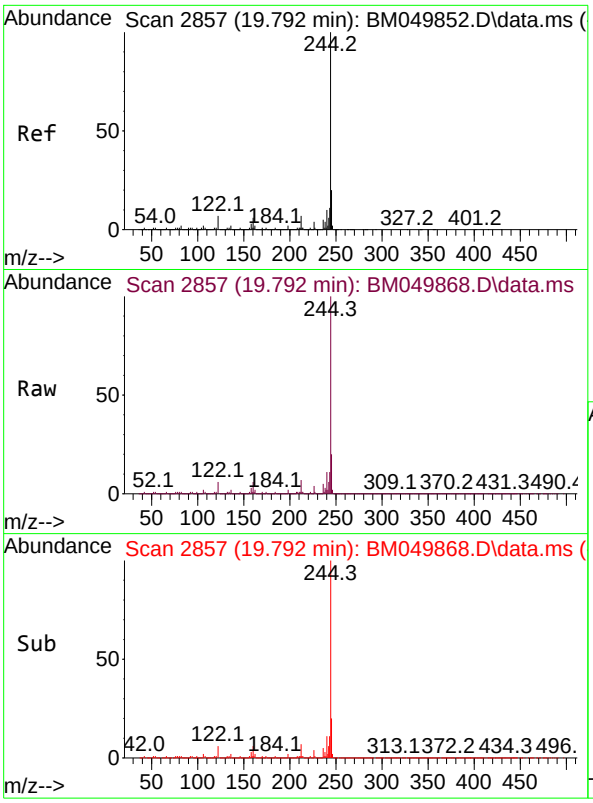


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Tgt Ion:240 Resp: 1431866

Ion	Ratio	Lower	Upper
240	100		
120	8.3	6.9	10.3
236	25.9	20.4	30.6



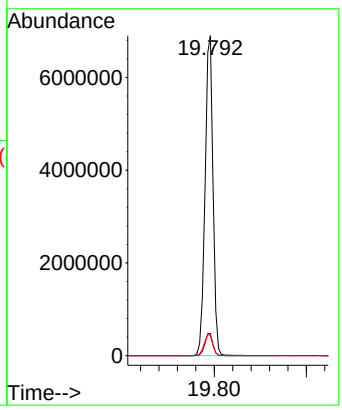


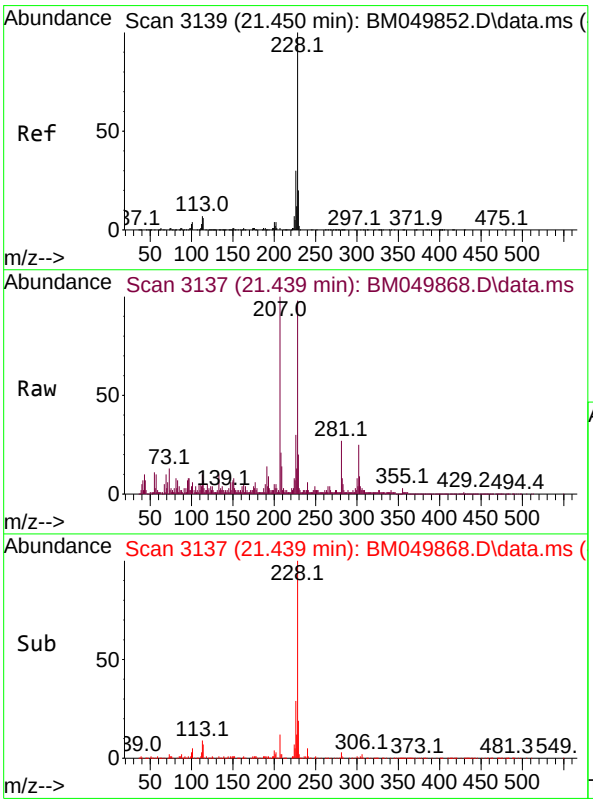
#79
Terphenyl-d14
Concen: 108.591 ng
RT: 19.792 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion:244 Resp: 8296901

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	6.2	5.4	8.0

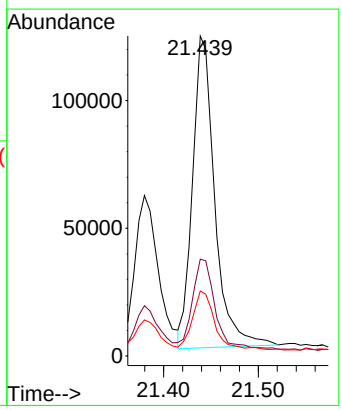


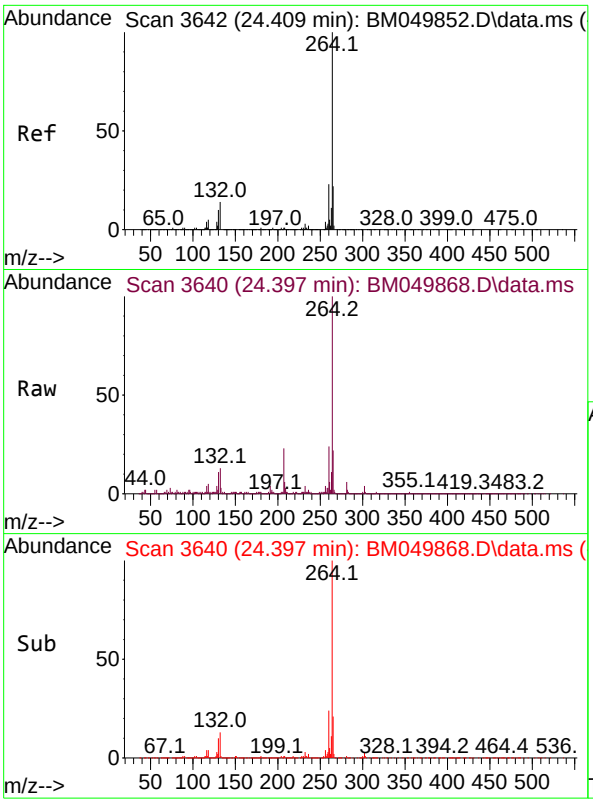


#83
Chrysene
Concen: 2.202 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Tgt Ion:228 Resp: 199224

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.1	36.1
229	20.3	15.8	23.6



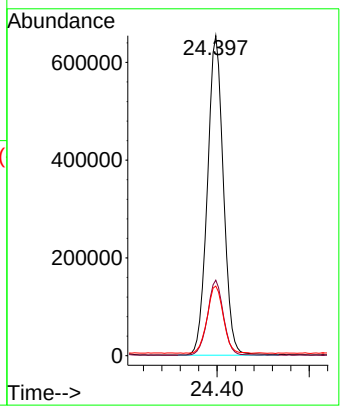


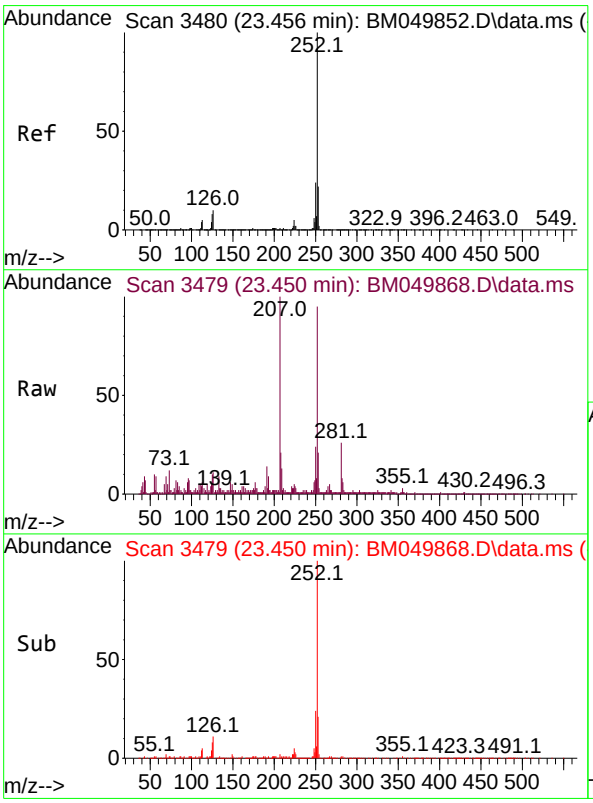
#86
Perylene-d12
Concen: 20.000 ng
RT: 24.397 min Scan# 3
Delta R.T. -0.012 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion:264 Resp: 1579355

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.8	17.8	26.8

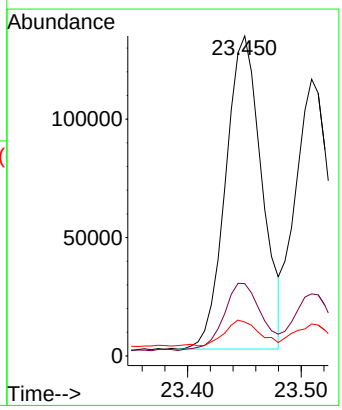


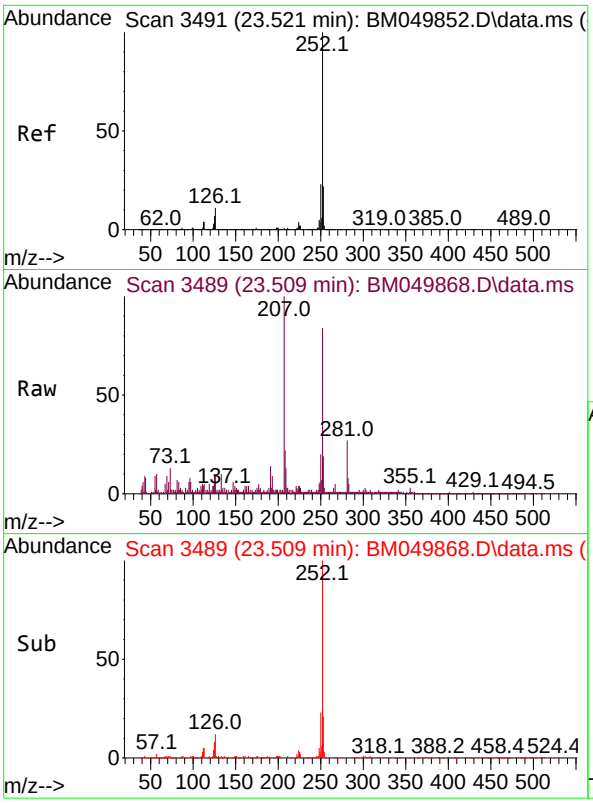


#88
Benzo(b)fluoranthene
Concen: 2.900 ng
RT: 23.450 min Scan# 3479
Delta R.T. -0.006 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Tgt Ion:252 Resp: 292483

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	10.6	6.2	9.4#



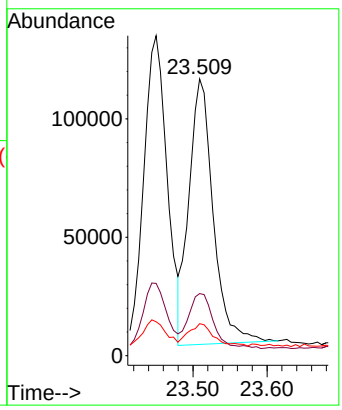


#89
Benzo(k)fluoranthene
Concen: 2.610 ng
RT: 23.509 min Scan# 34
Delta R.T. -0.012 min
Lab File: BM049868.D
Acq: 09 Apr 2025 15:05

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Tgt Ion:252 Resp: 255087

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.4	26.2
125	11.5	5.8	8.8#



Sample Results: **BM049868.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM049868.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.898	319	325	333	rVB	836722	1167673	5.68%	1.183%
2	5.363	397	404	421	rBV	6491424	9235392	44.90%	9.353%
3	6.951	667	674	689	rBV	6050820	9739153	47.35%	9.864%
4	7.781	808	815	822	rBV	1075610	1711934	8.32%	1.734%
5	8.934	1003	1011	1022	rBV	3767301	6067154	29.50%	6.145%
6	9.498	1101	1107	1115	rBV	127286	205984	1.00%	0.209%
7	10.569	1282	1289	1298	rBV	1309087	2241002	10.89%	2.270%
8	13.039	1702	1709	1722	rBV	10226591	15050381	73.17%	15.243%
9	14.421	1935	1944	1953	rBV	2146658	3128350	15.21%	3.168%
10	15.780	2168	2175	2180	rBV	1237394	1647178	8.01%	1.668%
11	15.910	2189	2197	2217	rBV	9669961	12949492	62.95%	13.115%
12	17.162	2404	2410	2421	rBV2	2564725	3547430	17.25%	3.593%
13	18.062	2558	2563	2578	rBV	1206746	2015496	9.80%	2.041%
14	19.345	2777	2781	2789	rBV	401179	647957	3.15%	0.656%
15	19.792	2851	2857	2862	rBV	16816039	20569600	100.00%	20.833%
16	21.080	3073	3076	3085	rBV	452092	781321	3.80%	0.791%
17	21.397	3125	3130	3135	rBV	2622489	3725512	18.11%	3.773%
18	24.397	3633	3640	3654	rVB	1717128	4306655	20.94%	4.362%

Sum of corrected areas: 98737664

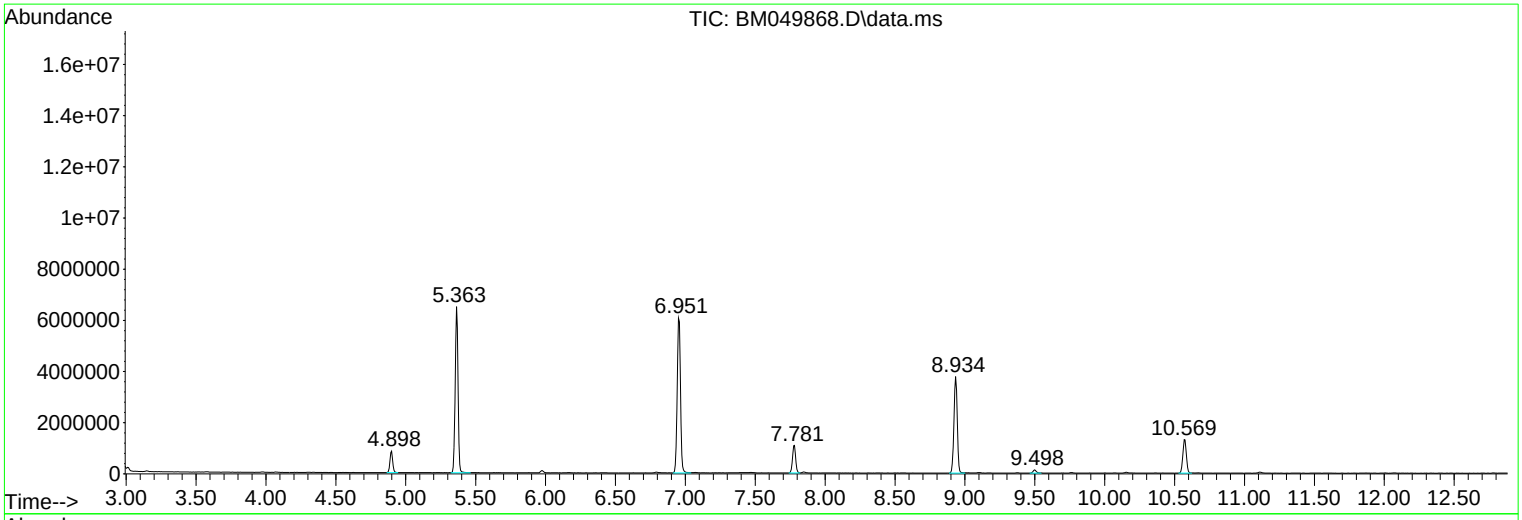
Sample Results: **BM049868.D**

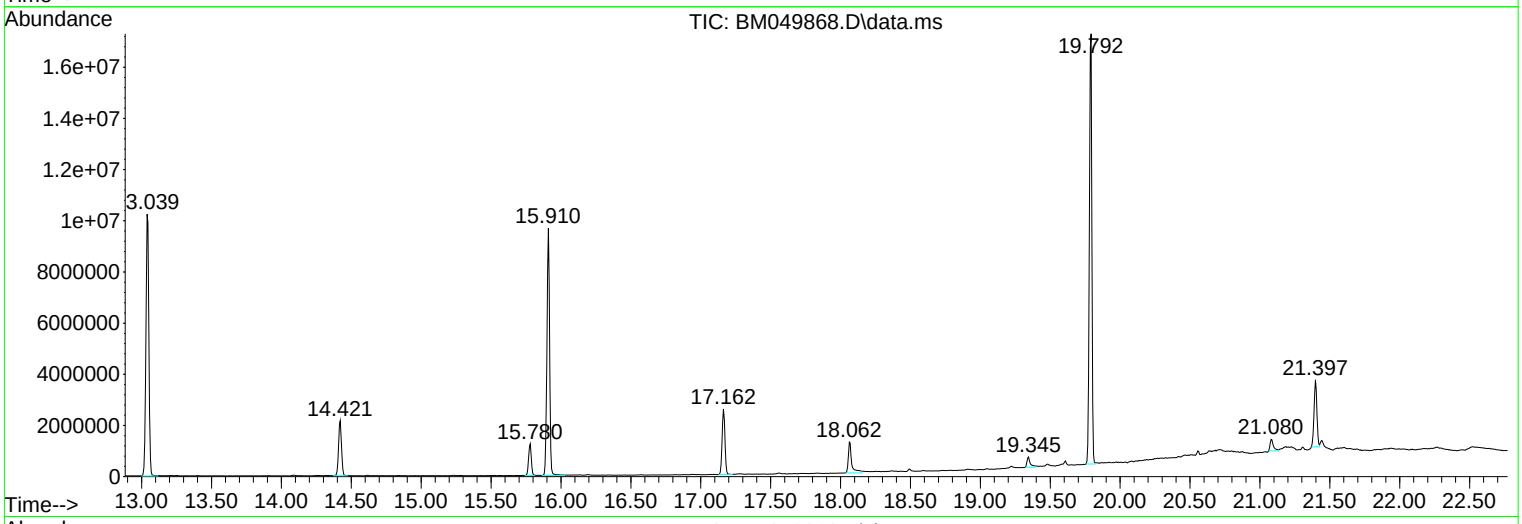
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

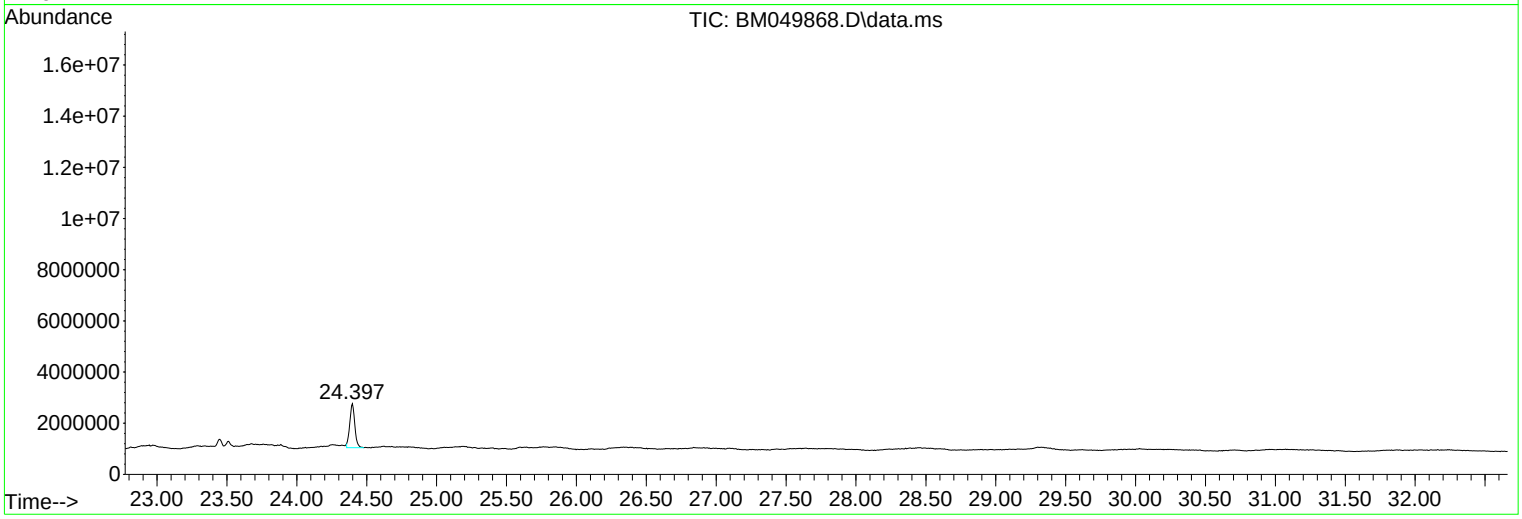
Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

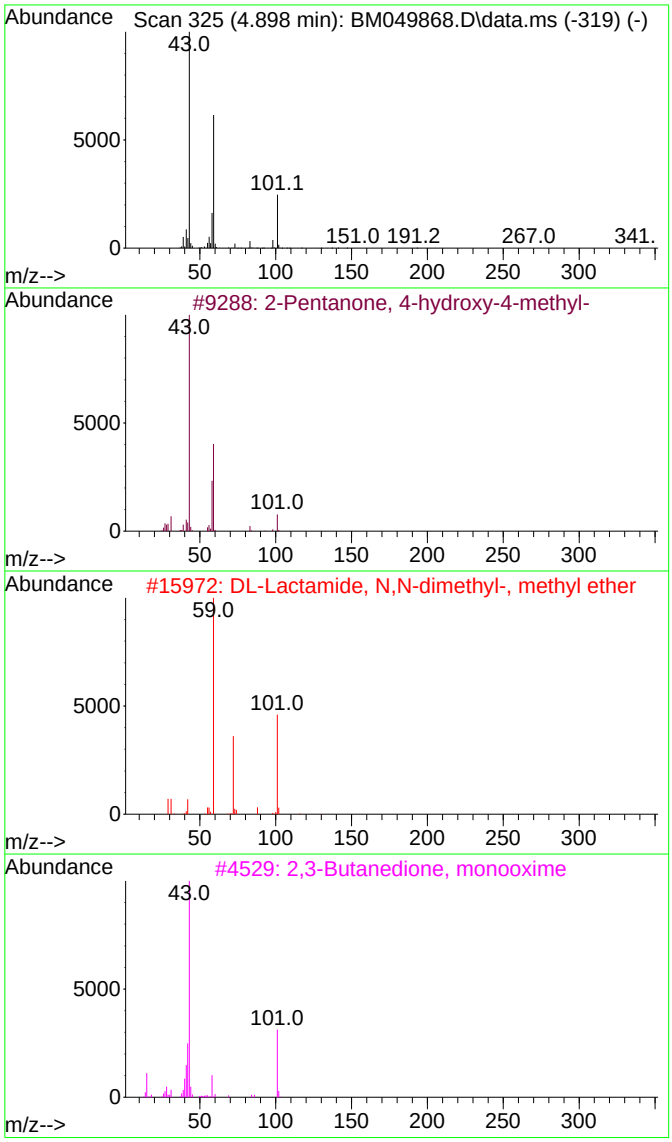
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

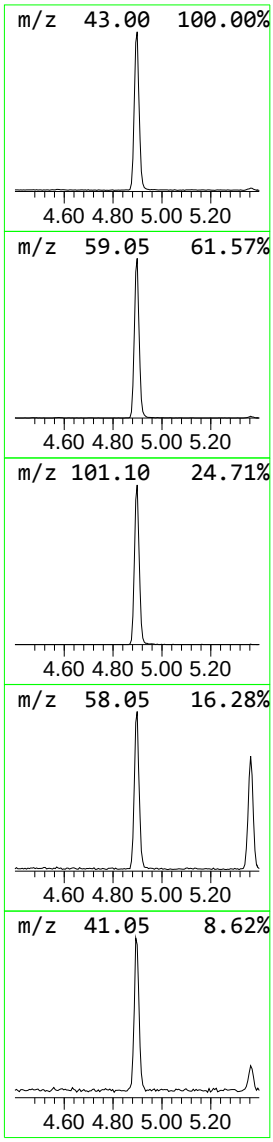
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.898	13.64 ng	1167670	1,4-Dichlorobenzene-d4	7.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	DL-Lactamide, N,N-dimethyl-, met...	131	C6H13NO2	1000452-57-0	33
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
4	1,3-Dioxolane-2-methanol, 2,4-di...	132	C6H12O3	053951-43-2	25
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

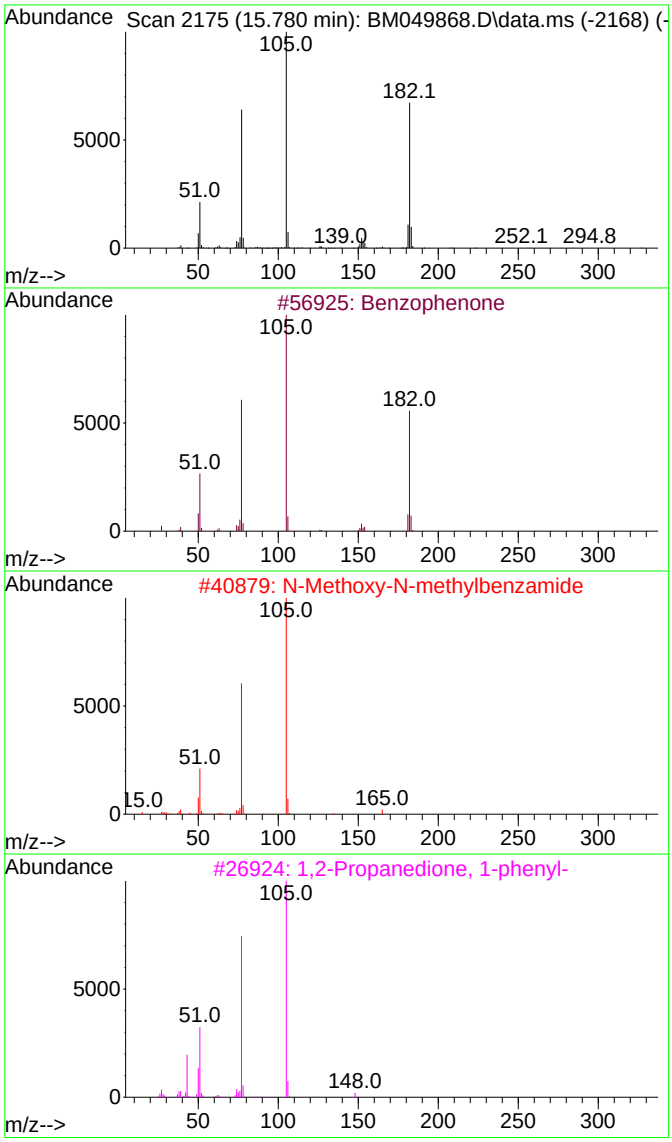
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

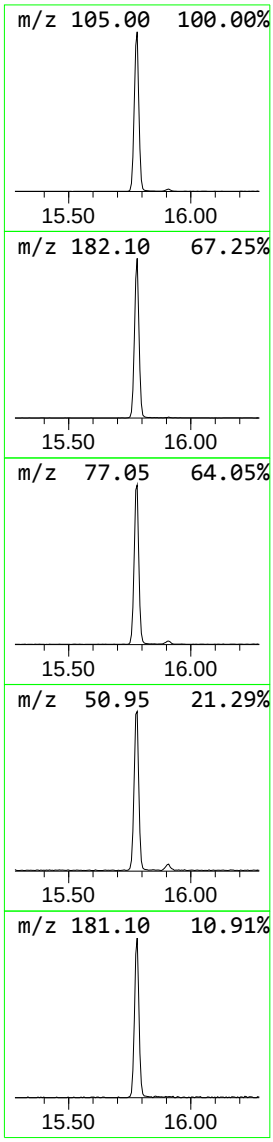
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.780	10.53 ng	1647180	Acenaphthene-d10	14.421

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	43
3	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	43
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	43
5	Ethanone, 2-hydroxy-1-phenyl-	136	C8H8O2	000582-24-1	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

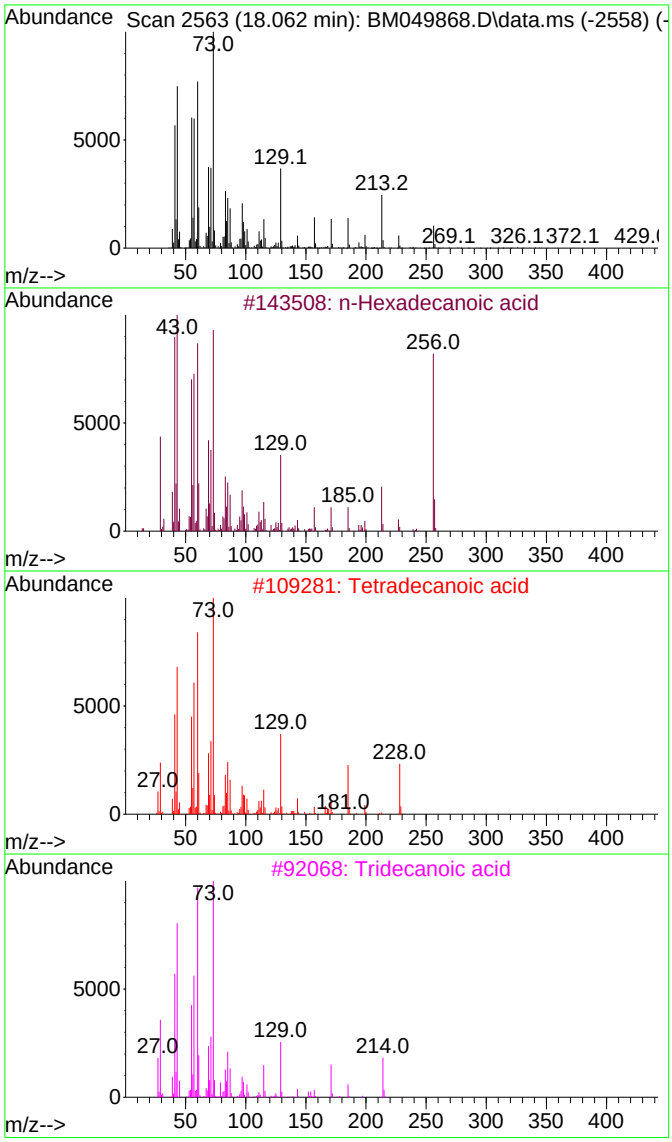
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

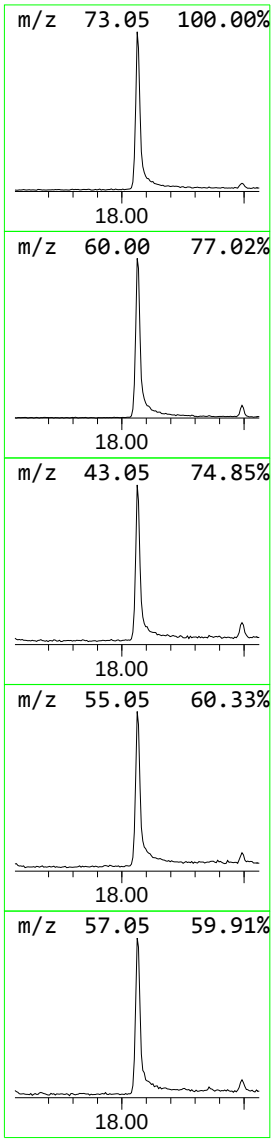
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.062	11.36 ng	2015500	Phenanthrene-d10	17.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Tridecanoic acid	214	C13H26O2	000638-53-9	90
4	Octadecanoic acid	284	C18H36O2	000057-11-4	81
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

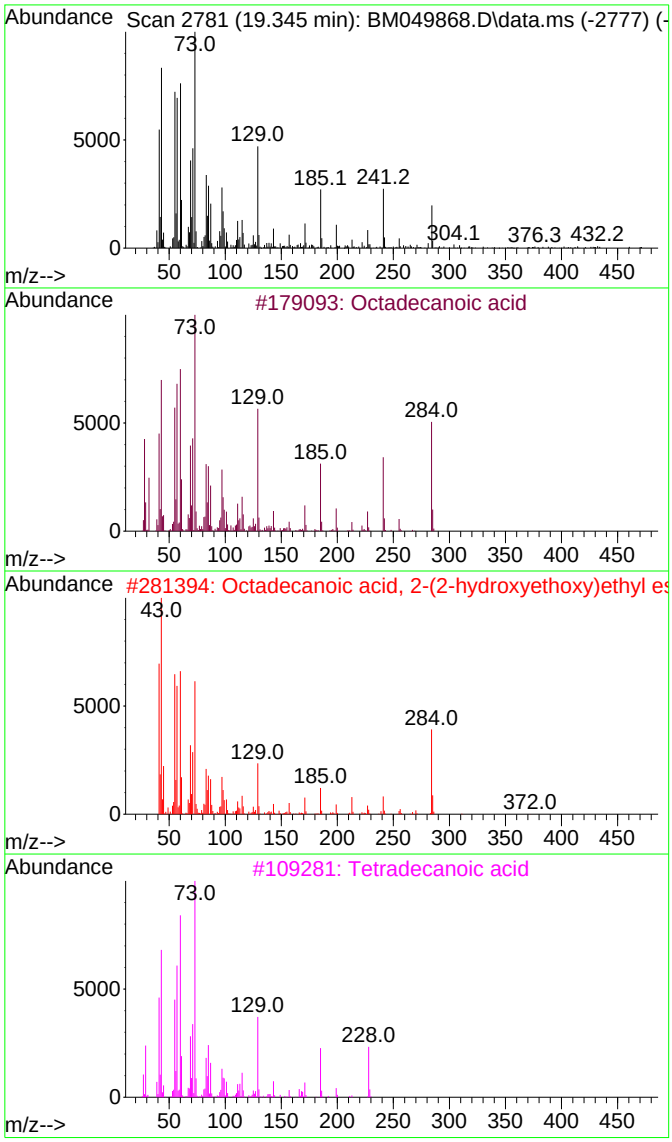
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

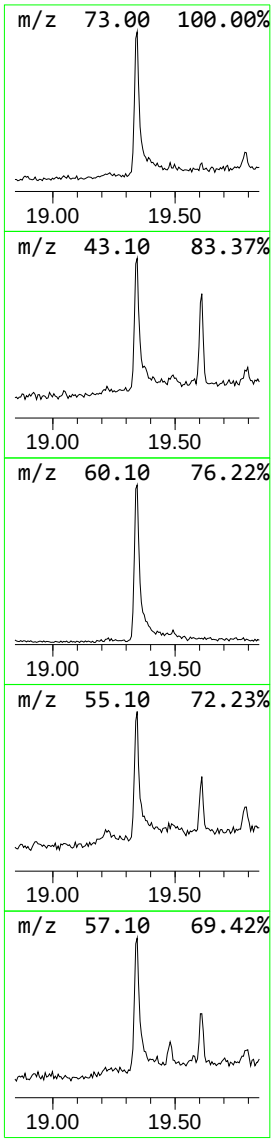
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.345	3.48 ng	647957	Chrysene-d12	21.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	72
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	68
4	Undecanoic acid	186	C11H22O2	000112-37-8	68
5	n-Decanoic acid	172	C10H20O2	000334-48-5	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

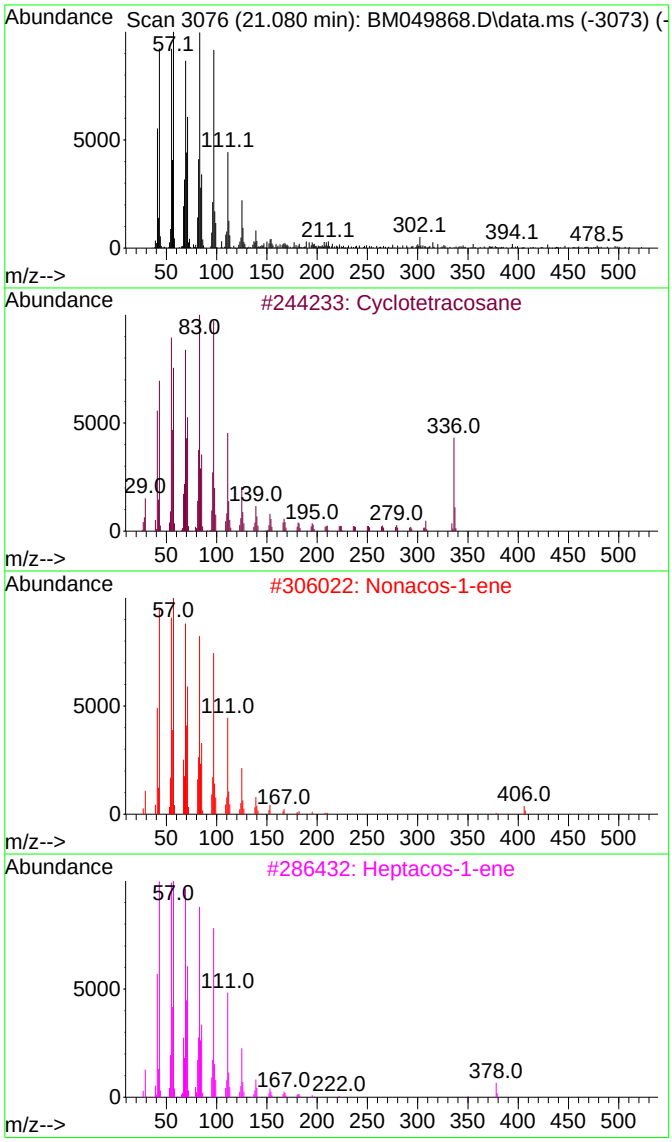
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

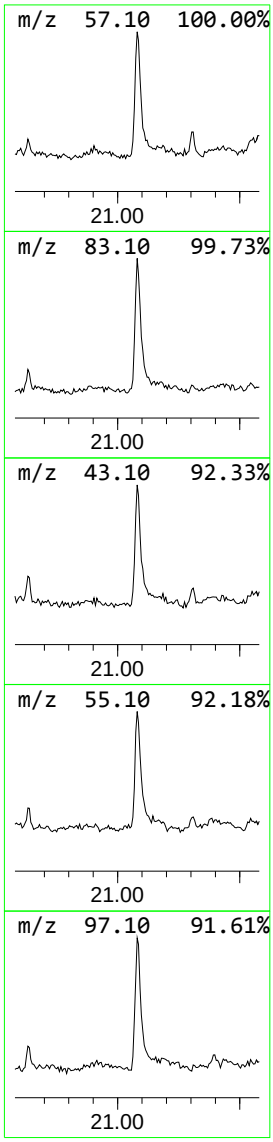
****

Peak Number 5 Cyclotetracosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.080	4.19 ng	781321	Chrysene-d12	21.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	99
2	Nonacos-1-ene	406	C29H58	018835-35-3	94
3	Heptacos-1-ene	378	C27H54	015306-27-1	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
5	1-Heneicosanol	312	C21H44O	015594-90-8	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049868.D
Acq On : 09 Apr 2025 15:05
Operator : RC/JU
Sample : Q1746-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-149-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.898	13.6	ng	1167670	1	7.781	1711930	20.0
Benzophenone	15.780	10.5	ng	1647180	3	14.421	3128350	20.0
n-Hexadecanoic ...	18.062	11.4	ng	2015500	4	17.162	3547430	20.0
Octadecanoic acid	19.345	3.5	ng	647957	5	21.397	3725510	20.0
Cyclotetracosane	21.080	4.2	ng	781321	5	21.397	3725510	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Time: Apr 10 15:01:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

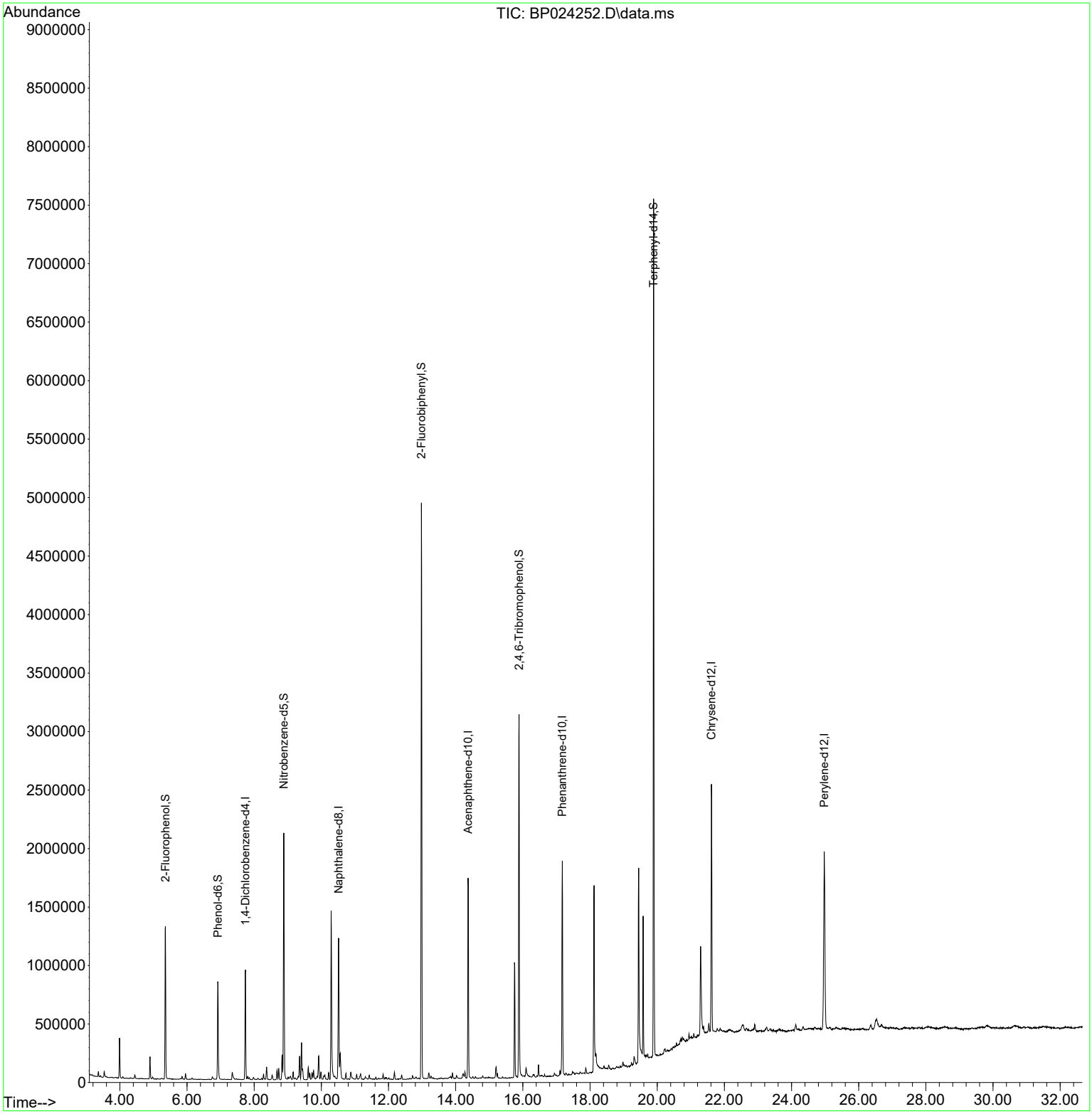
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	262571	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	1031585	20.000	ng	-0.01
39) Acenaphthene-d10	14.369	164	601225	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1138233	20.000	ng	-0.02
76) Chrysene-d12	21.616	240	1210776	20.000	ng	-0.03
86) Perylene-d12	24.974	264	1465709	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	610148	37.094	ng	0.00
7) Phenol-d6	6.916	99	505067	22.961	ng	-0.01
23) Nitrobenzene-d5	8.881	82	1201824	65.732	ng	-0.01
42) 2,4,6-Tribromophenol	15.887	330	634476	83.779	ng	-0.01
45) 2-Fluorobiphenyl	12.981	172	2505509	61.449	ng	-0.02
79) Terphenyl-d14	19.892	244	3422578	58.351	ng	-0.02
Target Compounds						Qvalue

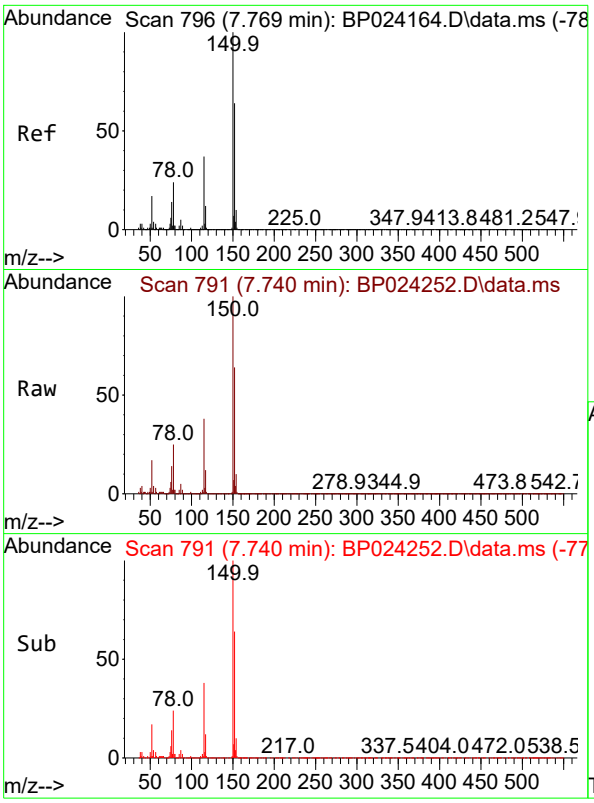
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Time: Apr 10 15:01:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



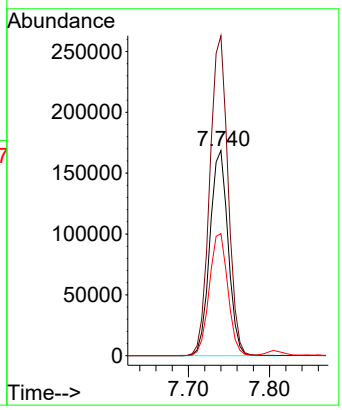


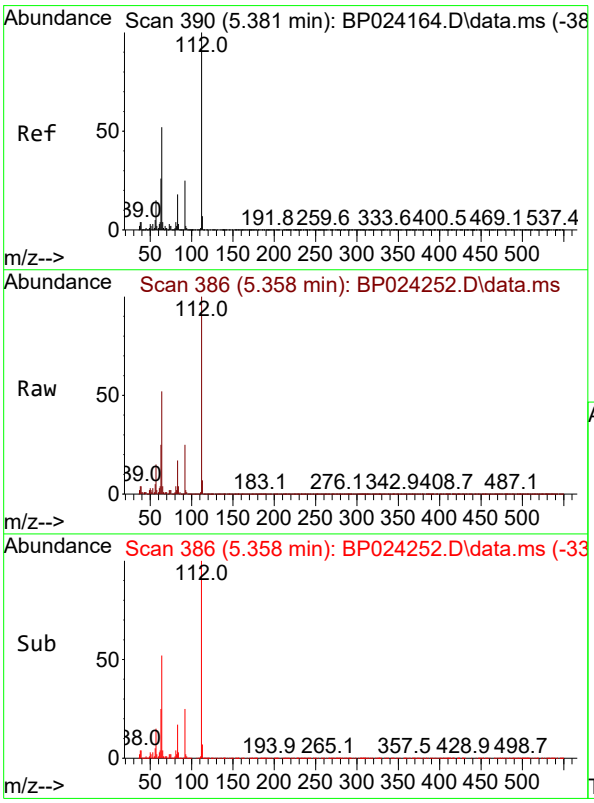
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Tgt Ion:152 Resp: 262571

Ion	Ratio	Lower	Upper
152	100		
150	156.1	125.5	188.3
115	59.6	46.3	69.5

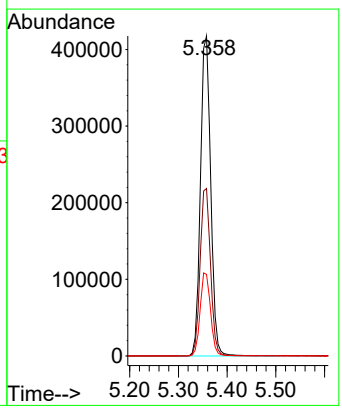


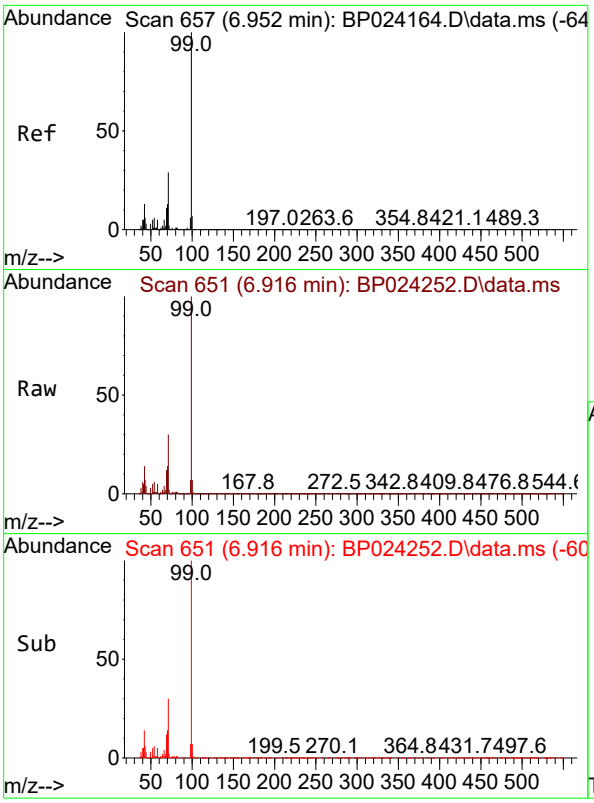


#5
2-Fluorophenol
Concen: 37.094 ng
RT: 5.358 min Scan# 386
Delta R.T. 0.000 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Tgt Ion:112 Resp: 610148

Ion	Ratio	Lower	Upper
112	100		
64	52.4	41.3	61.9
63	25.5	20.6	31.0



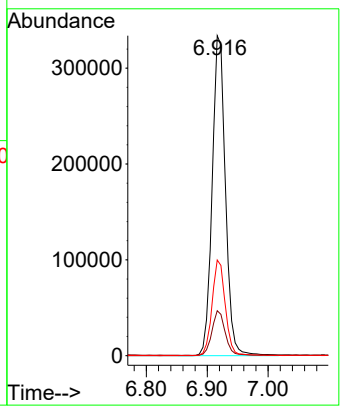


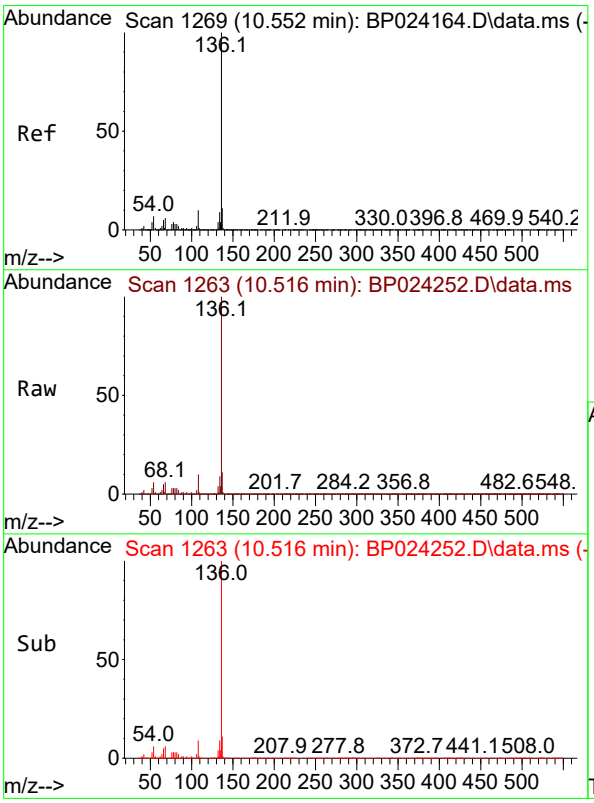
#7
Phenol-d6
Concen: 22.961 ng
RT: 6.916 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Tgt Ion: 99 Resp: 505067

Ion	Ratio	Lower	Upper
99	100		
42	14.1	10.6	16.0
71	29.9	23.3	34.9

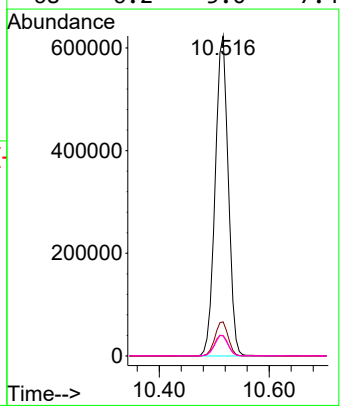


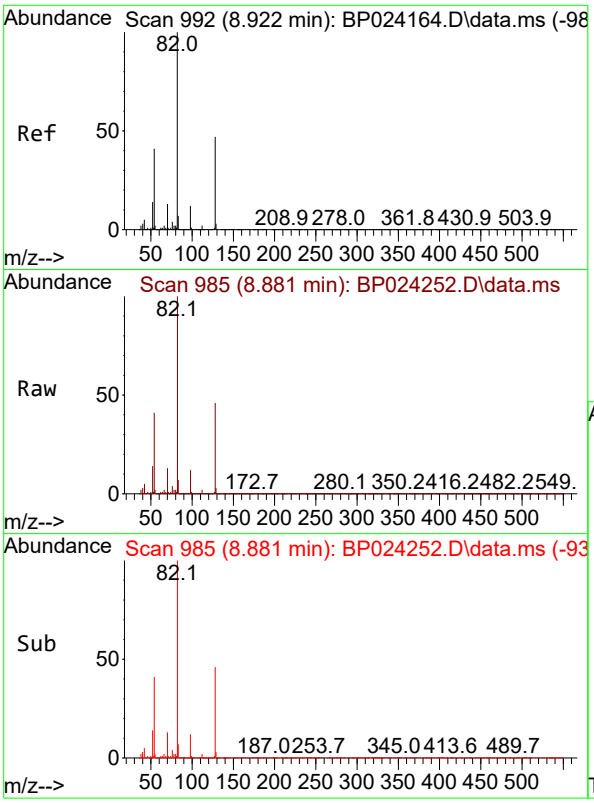


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.012 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Tgt Ion:136 Resp: 1031585

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.4	5.3	7.9
68	6.2	5.0	7.4



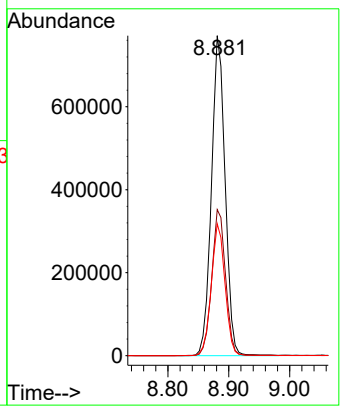


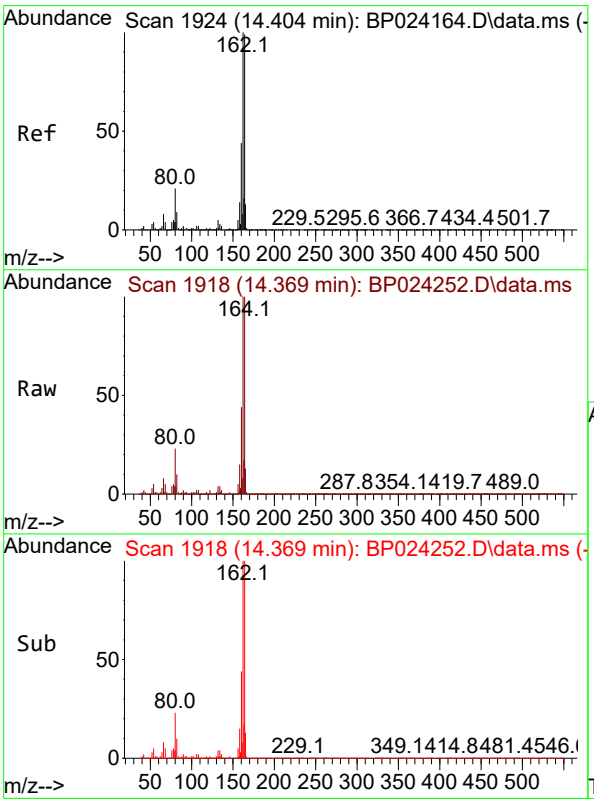
#23
Nitrobenzene-d5
Concen: 65.732 ng
RT: 8.881 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Tgt Ion: 82 Resp: 1201824

Ion	Ratio	Lower	Upper
82	100		
128	45.6	37.4	56.0
54	41.2	32.5	48.7

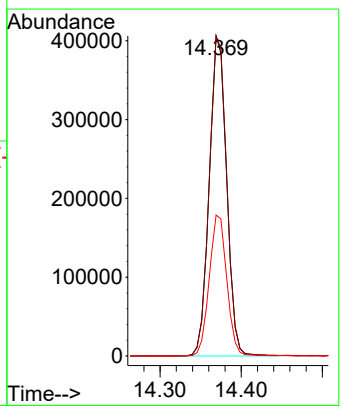


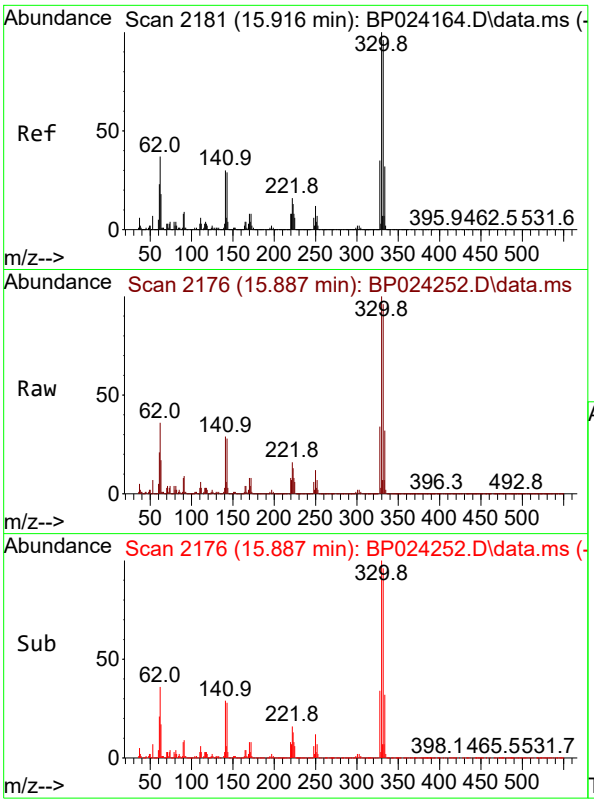


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.369 min Scan# 1918
Delta R.T. -0.023 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Tgt Ion:164 Resp: 601225

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.6	121.0
160	44.1	35.4	53.2



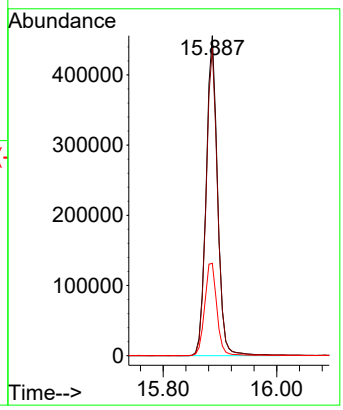


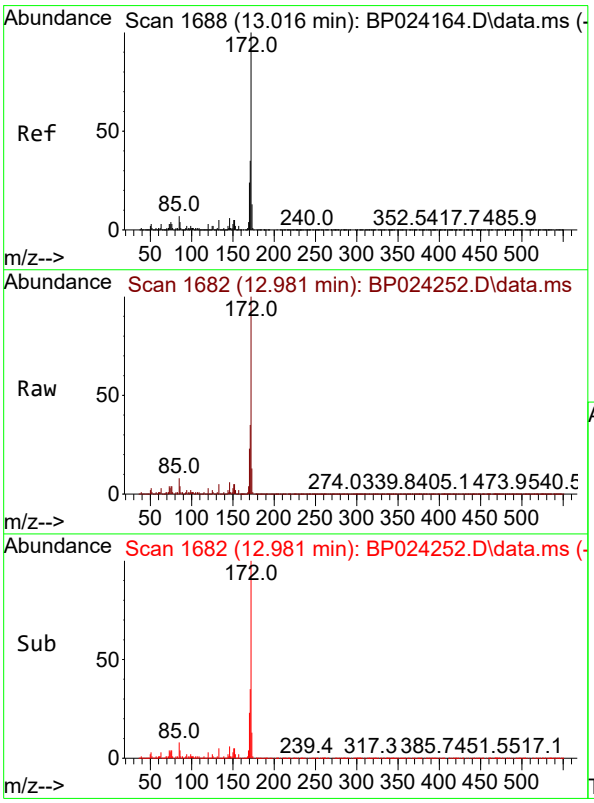
#42
2,4,6-Tribromophenol
Concen: 83.779 ng
RT: 15.887 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Tgt Ion:330 Resp: 634476

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.6	116.4
141	30.8	25.0	37.6

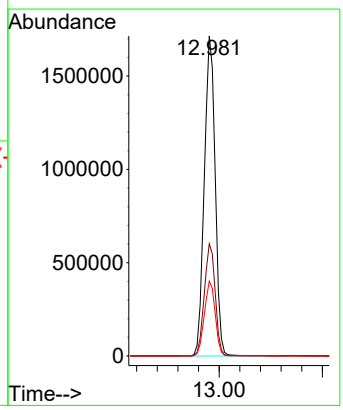


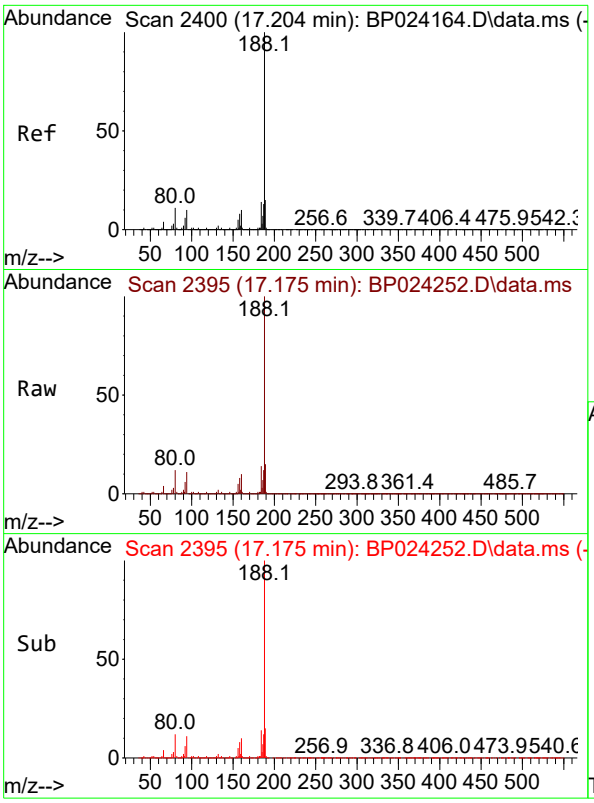


#45
2-Fluorobiphenyl
Concen: 61.449 ng
RT: 12.981 min Scan# 1682
Delta R.T. -0.017 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Tgt Ion:172 Resp: 2505509

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.3	42.5
170	23.4	19.0	28.4



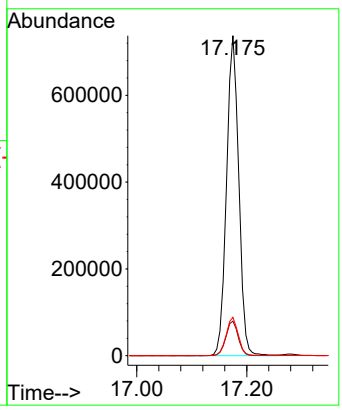


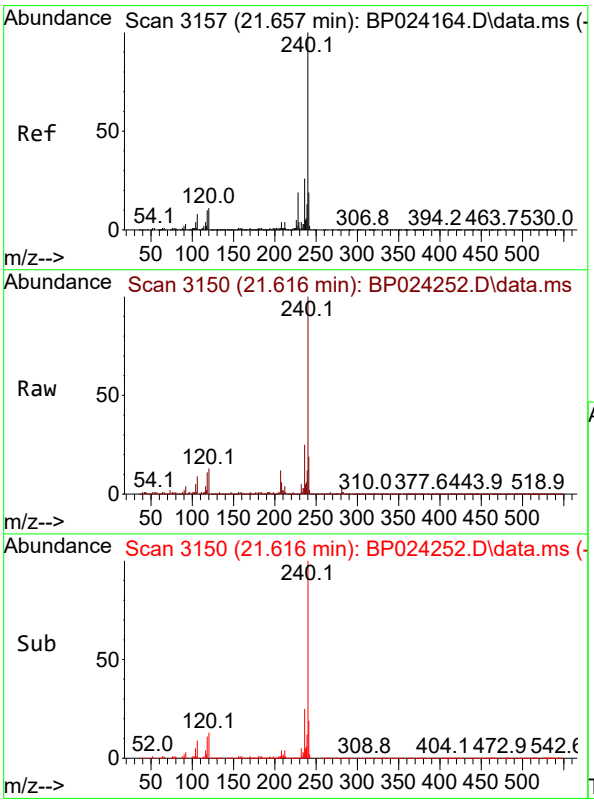
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.175 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Tgt Ion:188 Resp: 1138233

Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.1	12.1
80	12.0	8.9	13.3

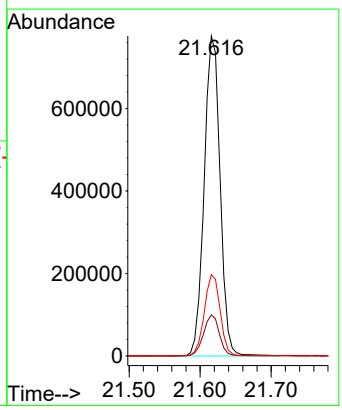


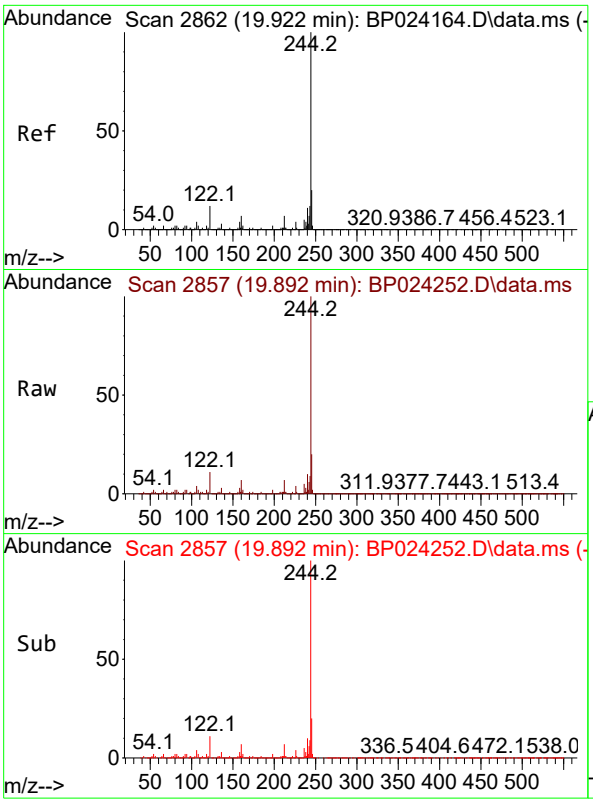


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.616 min Scan# 3150
Delta R.T. -0.029 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Tgt Ion:240 Resp: 1210776

Ion	Ratio	Lower	Upper
240	100		
120	12.8	9.2	13.8
236	25.4	20.4	30.6



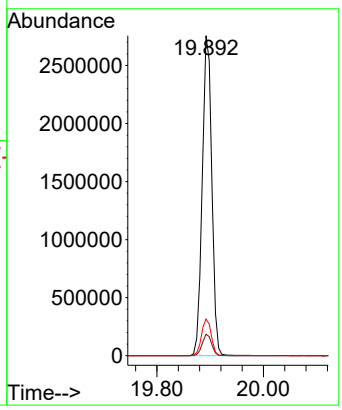


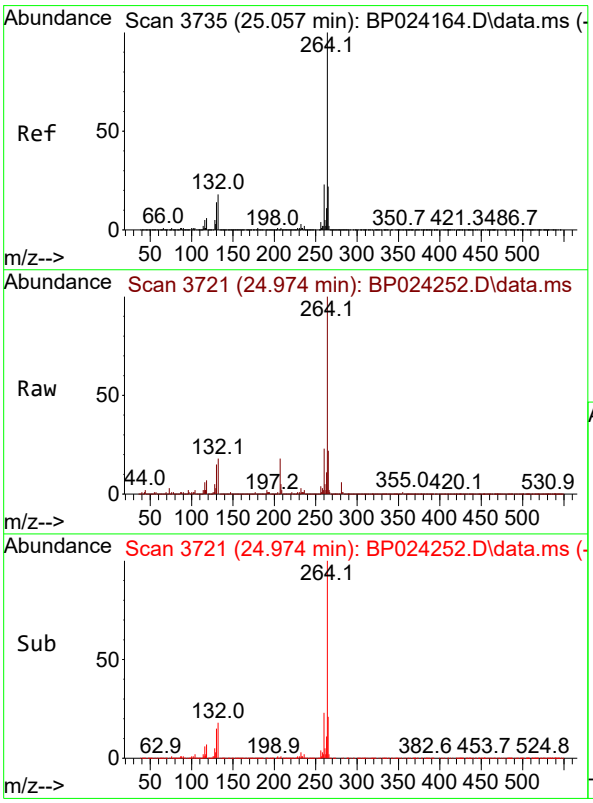
#79
Terphenyl-d14
Concen: 58.351 ng
RT: 19.892 min Scan# 2
Delta R.T. -0.023 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Tgt Ion:244 Resp: 3422578

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	11.4	9.6	14.4

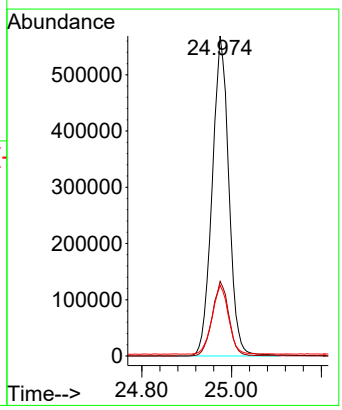




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.974 min Scan# 3721
Delta R.T. -0.035 min
Lab File: BP024252.D
Acq: 10 Apr 2025 14:36

Tgt Ion:264 Resp: 1465709

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.5	27.7
265	22.0	17.7	26.5



Sample Results: **BP024252.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024252.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.993	149	154	162	rVB	343593	438753	4.57%	0.713%
2	4.899	302	308	316	rBV	190075	261415	2.72%	0.425%
3	5.358	379	386	398	rBV	1306613	1933965	20.12%	3.144%
4	6.916	643	651	665	rBV	835706	1347024	14.02%	2.190%
5	7.352	719	725	737	rBV	60721	146786	1.53%	0.239%
6	7.740	782	791	797	rBV	937172	1471746	15.31%	2.393%
7	8.369	892	898	905	rVB	107028	169312	1.76%	0.275%
8	8.681	945	951	955	rBV	82214	123909	1.29%	0.201%
9	8.734	955	960	967	rVB	94790	147020	1.53%	0.239%
10	8.834	970	977	980	rBV	213149	332402	3.46%	0.540%
11	8.881	980	985	996	rVB	2099929	3285998	34.19%	5.342%
12	9.352	1060	1065	1070	rVB	192155	283989	2.96%	0.462%
13	9.410	1070	1075	1079	rBV	308718	476983	4.96%	0.775%
14	9.610	1104	1109	1113	rBV	104229	159275	1.66%	0.259%
15	9.722	1122	1128	1132	rBV3	57659	104469	1.09%	0.170%
16	9.769	1132	1136	1145	rVB	73030	124656	1.30%	0.203%
17	9.922	1156	1162	1168	rVB3	195659	350330	3.65%	0.570%
18	9.987	1168	1173	1182	rVB2	62231	108108	1.12%	0.176%
19	10.293	1218	1225	1240	rBV	1444969	2455281	25.55%	3.992%
20	10.516	1254	1263	1267	rBV	1202361	2056004	21.39%	3.342%
21	10.563	1267	1271	1282	rVB2	215843	423125	4.40%	0.688%
22	10.875	1318	1324	1331	rBV2	62989	142839	1.49%	0.232%
23	11.169	1362	1374	1380	rVB5	45189	113588	1.18%	0.185%
24	12.175	1536	1545	1551	rBV	63314	104942	1.09%	0.171%
25	12.981	1675	1682	1693	rBV	4925318	7208552	75.01%	11.719%
26	14.369	1911	1918	1935	rVB	1711210	2581411	26.86%	4.197%
27	15.204	2053	2060	2064	rBV2	93884	179088	1.86%	0.291%
28	15.751	2147	2153	2161	rBV	984271	1400509	14.57%	2.277%
29	15.887	2169	2176	2195	rBV	3102110	4578713	47.65%	7.444%
30	16.098	2205	2212	2225	rBV3	76492	184840	1.92%	0.300%
31	16.463	2270	2274	2280	rBV	98771	142181	1.48%	0.231%
32	17.175	2386	2395	2408	rVB2	1830661	2889719	30.07%	4.698%
33	18.122	2549	2556	2563	rBV	1593490	2512277	26.14%	4.084%
34	19.310	2755	2758	2769	rVB7	62287	146057	1.52%	0.237%
35	19.445	2776	2781	2800	rBV	1662091	3337861	34.73%	5.426%
36	19.581	2800	2804	2812	rVB	1204780	1426892	14.85%	2.320%

Sample Results: **BP024252.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	19.892	2852	2857	2868	rBV	7326736	9610036	100.00%	15.623%
38	21.292	3090	3095	3107	rBV	747952	1684709	17.53%	2.739%
39	21.616	3144	3150	3159	rBV2	2111306	3275539	34.08%	5.325%
40	24.974	3713	3721	3733	rVB	1506023	3791930	39.46%	6.165%

Sum of corrected areas: 61512233

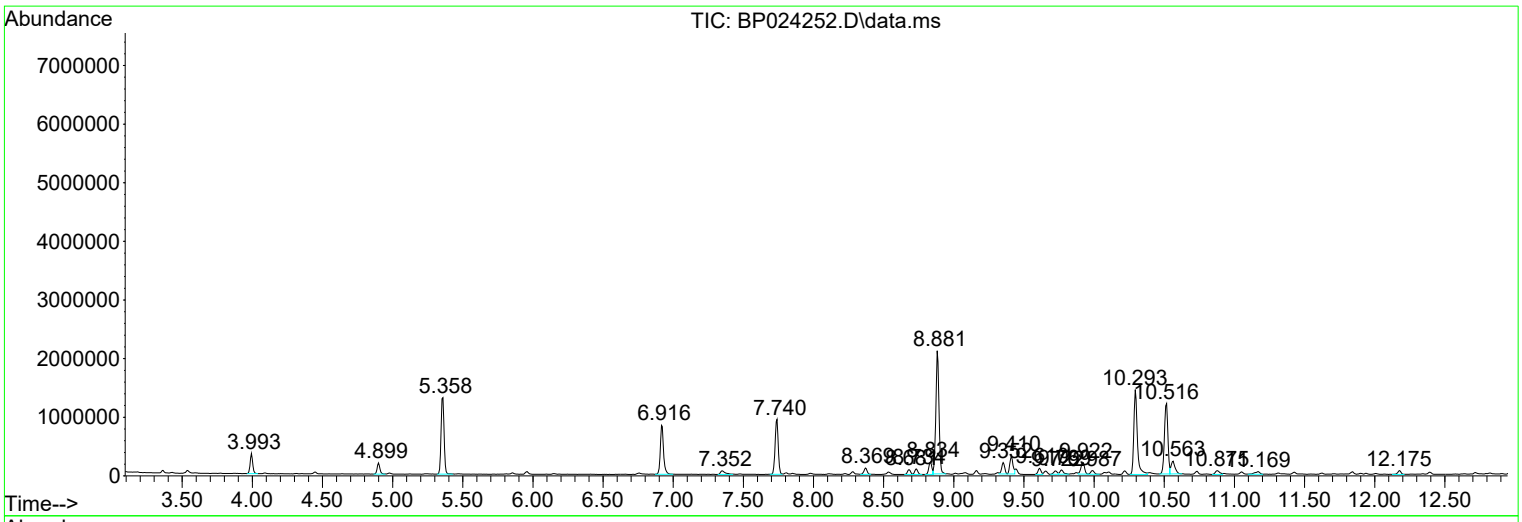
Sample Results: **BP024252.D**

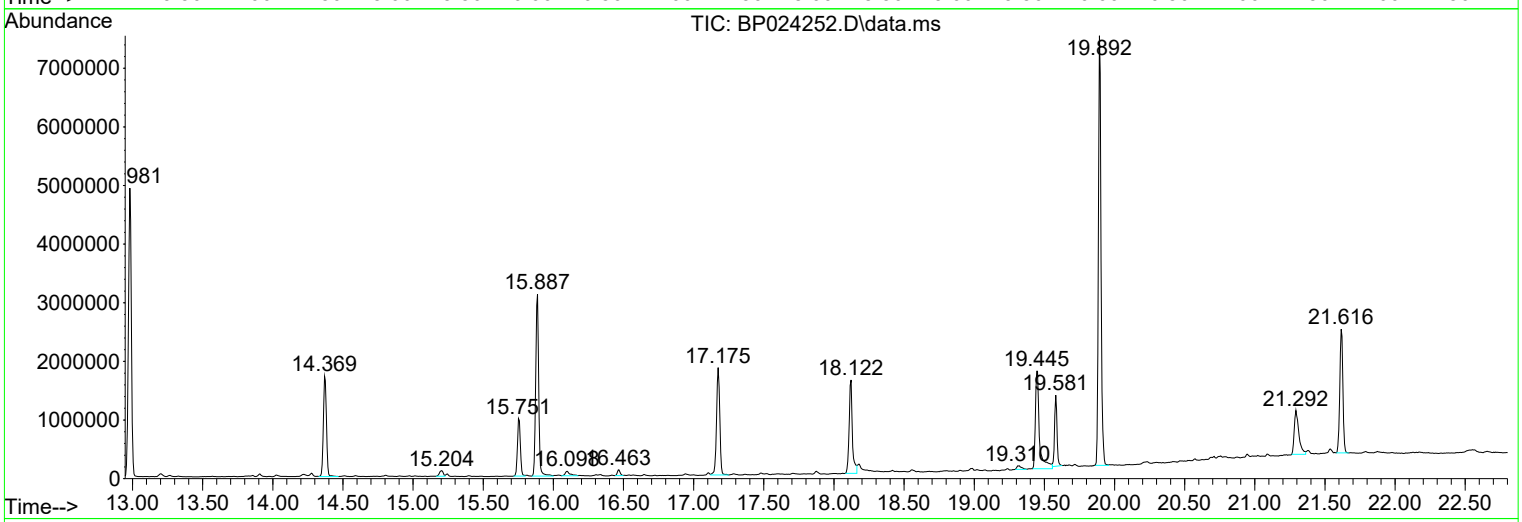
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

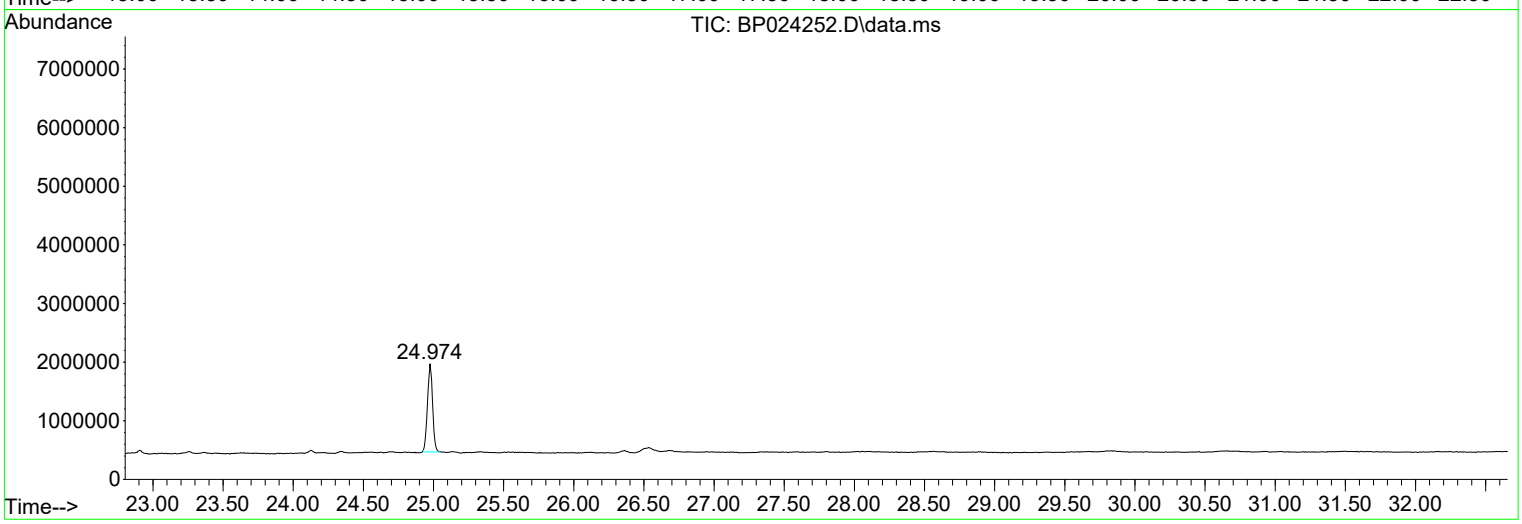
Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

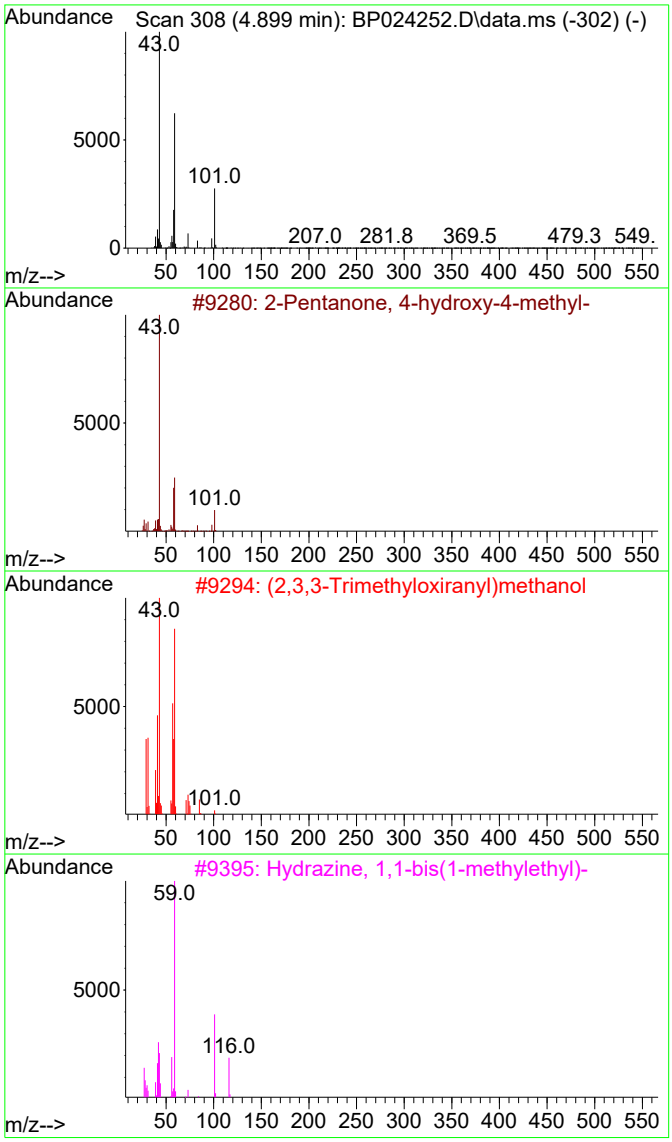
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

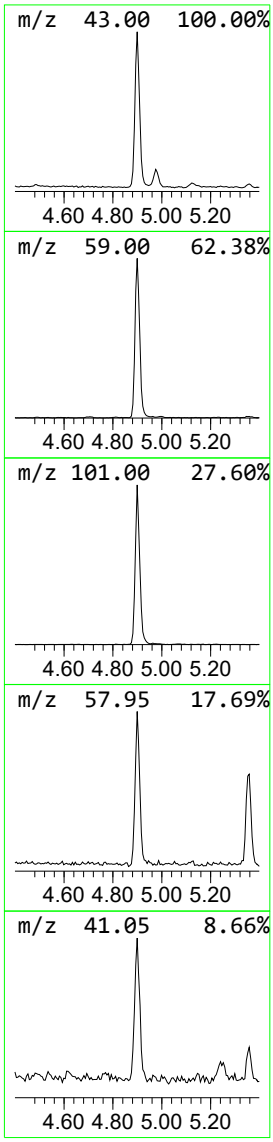
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.899	3.55 ng	261415	1,4-Dichlorobenzene-d4	7.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	(2,3,3-Trimethyloxiranyl)methanol	116	C6H12O2	1000306-64-7	33
3	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	28
4	Succinic acid, heptyl 2-methoxye...	274	C14H26O5	1000325-80-7	28
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

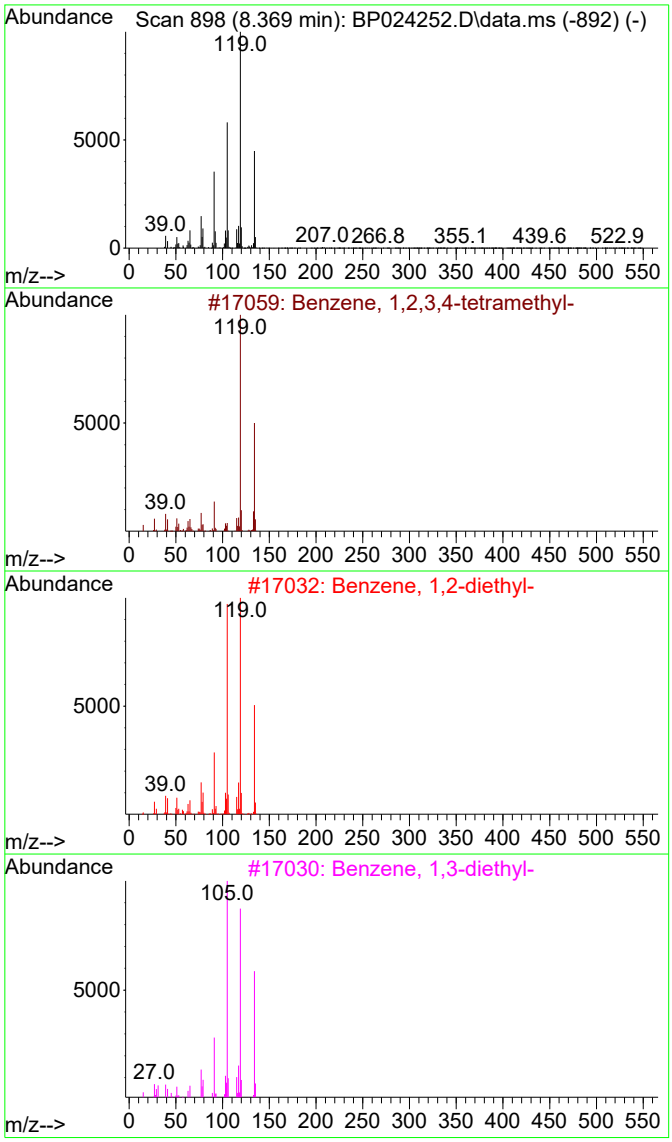
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

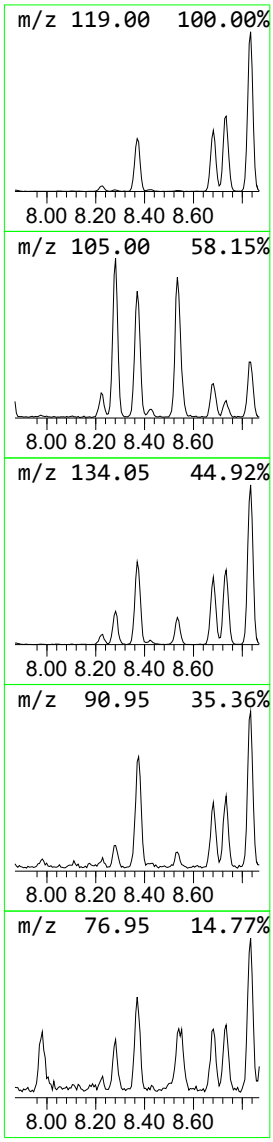
****

Peak Number 3 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.369	2.30 ng	169312	1,4-Dichlorobenzene-d4	7.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	93
4	o-Cymene	134	C10H14	000527-84-4	93
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

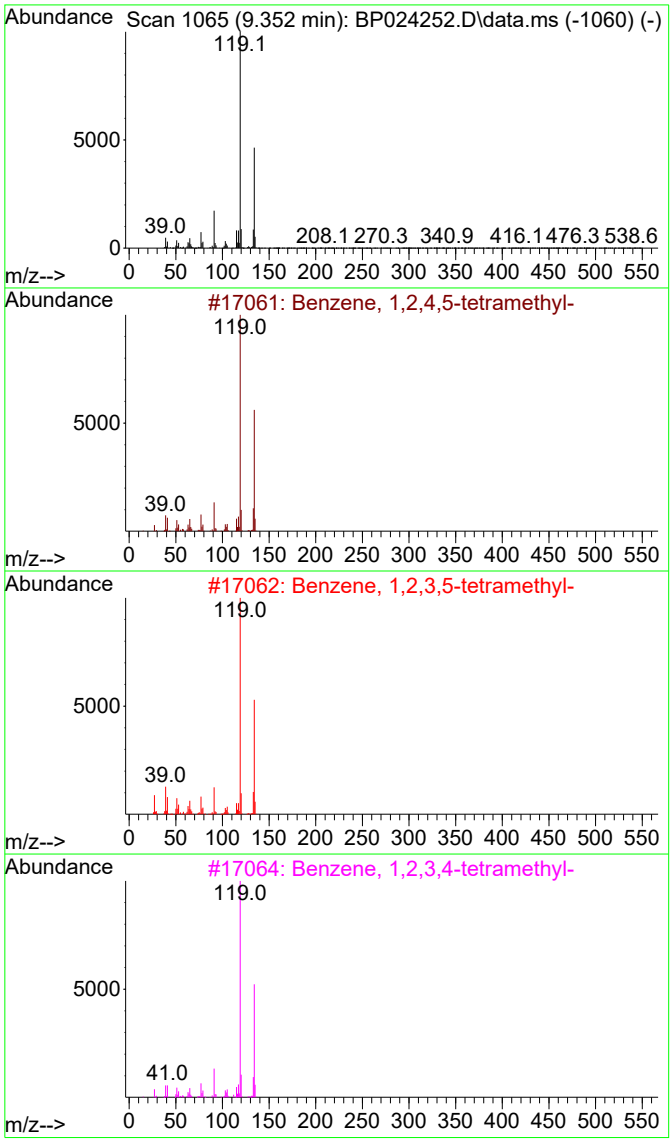
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

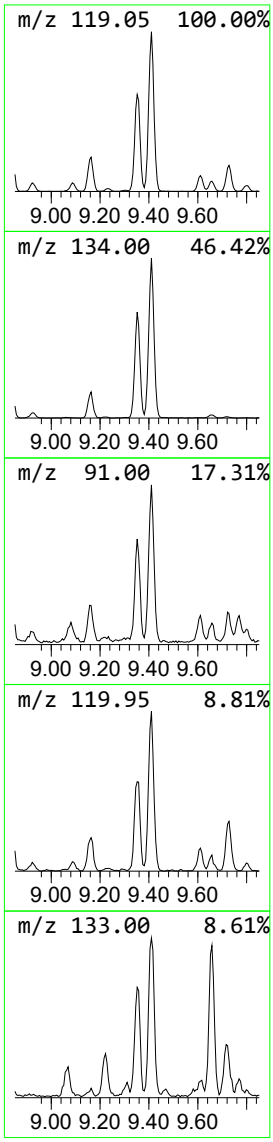
****

Peak Number 4 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.352	2.76 ng	283989	Naphthalene-d8	10.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

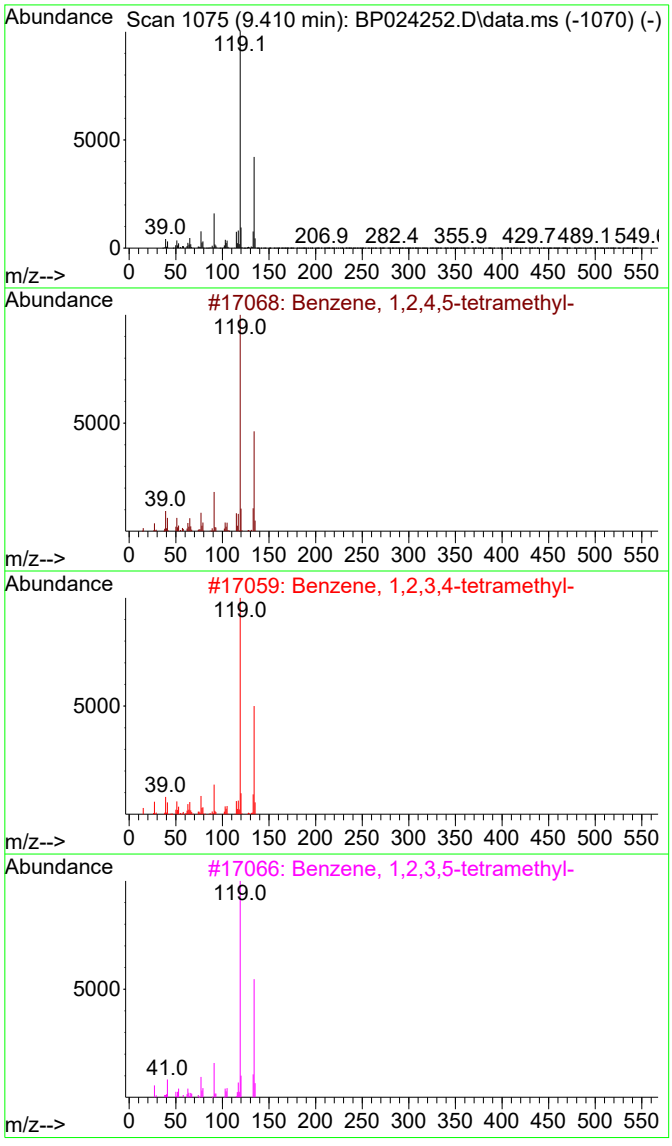
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

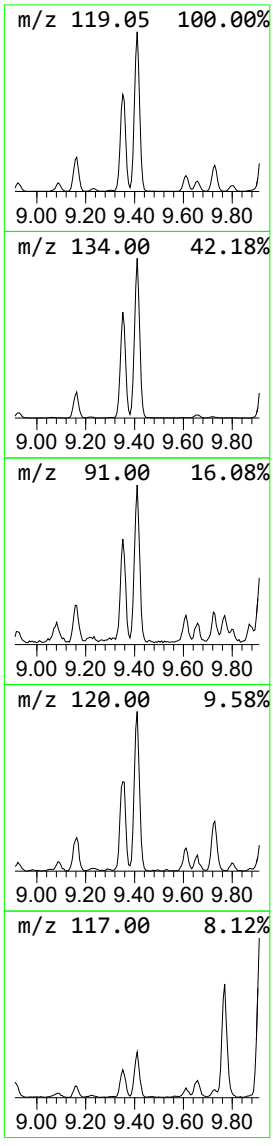
****

Peak Number 5 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.410	4.64 ng	476983	Naphthalene-d8	10.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

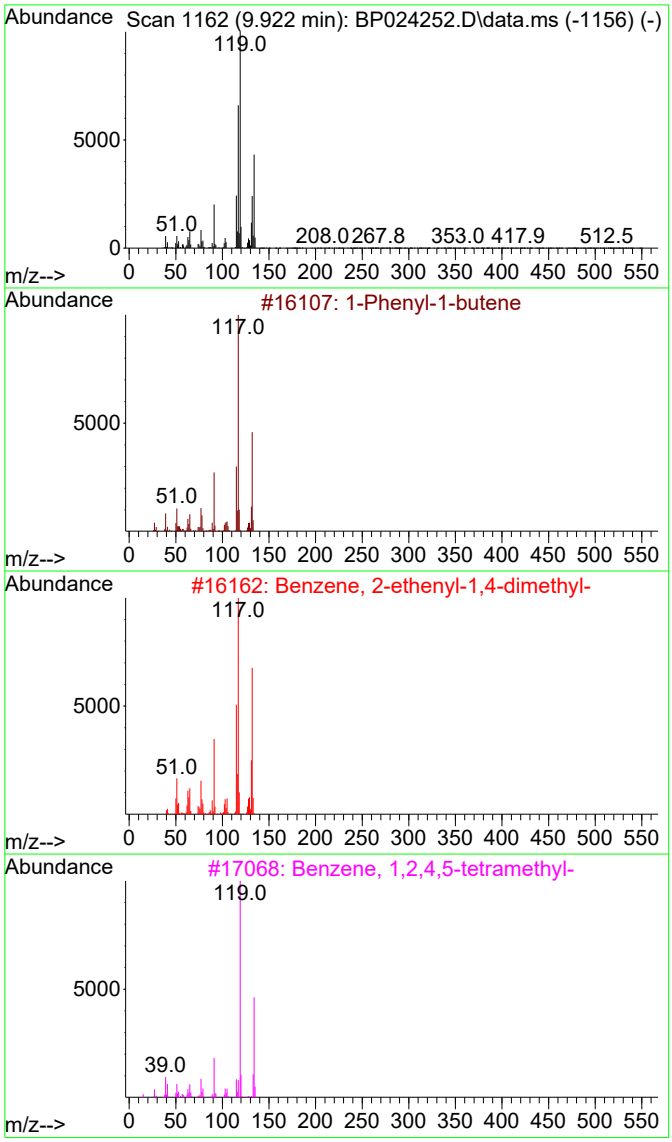
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

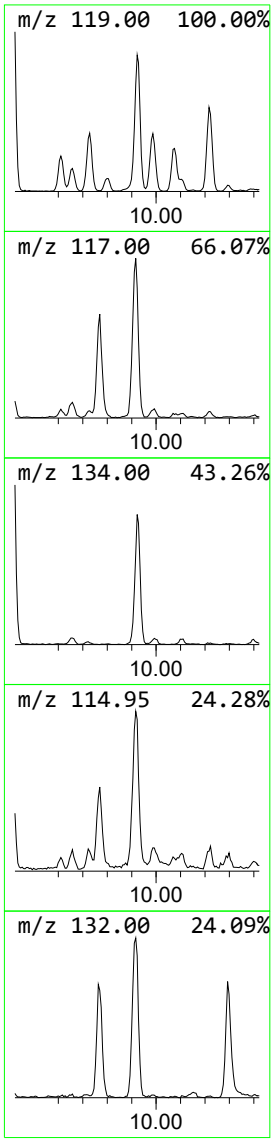
****

Peak Number 6 1-Phenyl-1-butene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.922	3.41 ng	350330	Naphthalene-d8	10.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	74
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	70
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	60
4	Ethanone, 1-(4-methylphenyl)-	134	C9H10O	000122-00-9	55
5	o-Cymene	134	C10H14	000527-84-4	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

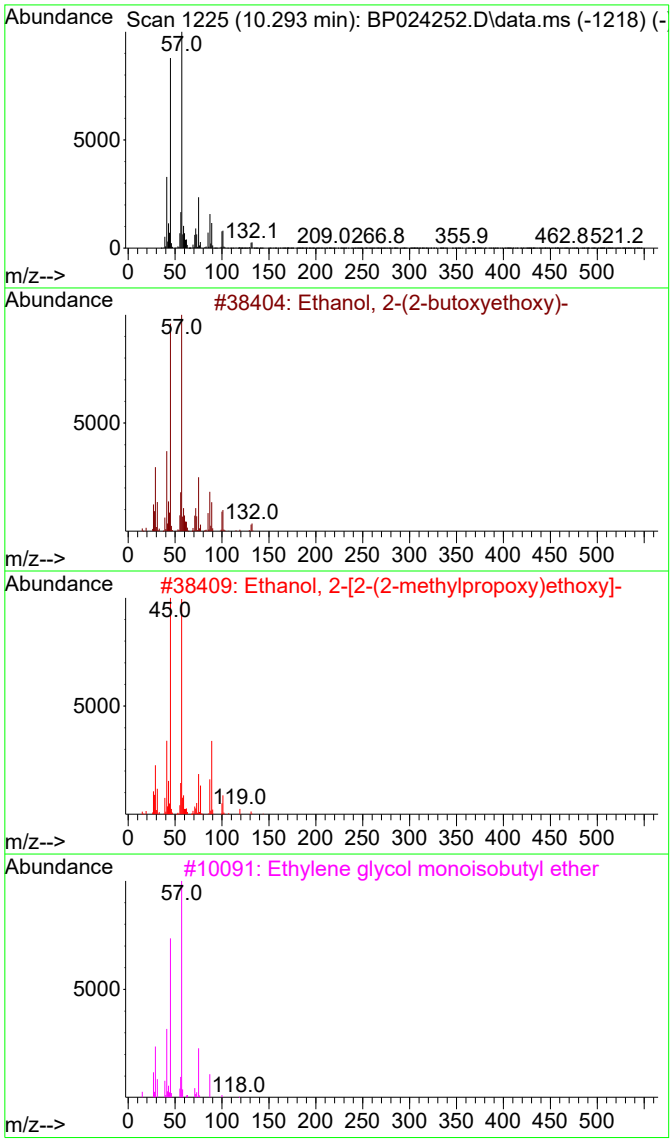
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

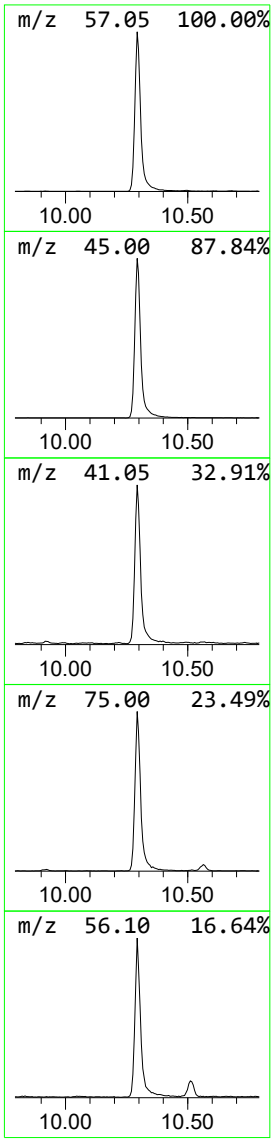
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Ethanol, 2-(2-butoxyethoxy)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.293	23.88 ng	2455280	Naphthalene-d8	10.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-butoxyethoxy)-	162	C8H18O3	000112-34-5	91
2	Ethanol, 2-[2-(2-methylpropoxy)e...	162	C8H18O3	018912-80-6	64
3	Ethylene glycol monoisobutyl ether	118	C6H14O2	004439-24-1	59
4	Ethanol, 1-(2-butoxyethoxy)-	162	C8H18O3	054446-78-5	50
5	3,3-Dimethylbutane-2-ol	102	C6H14O	000464-07-3	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

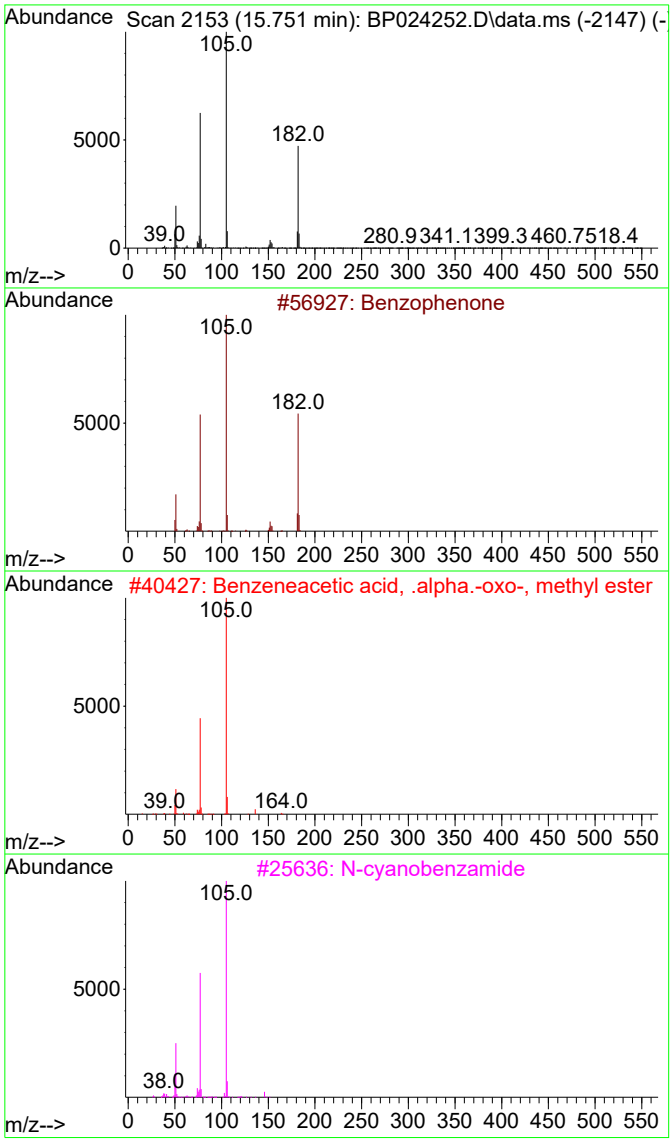
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

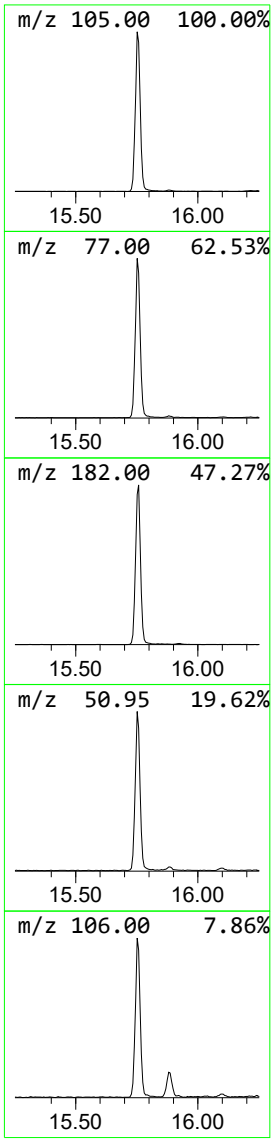
****

Peak Number 8 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.751	10.85 ng	1400510	Acenaphthene-d10	14.369

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	47
3	N-cyanobenzamide	146	C8H6N2O	015150-25-1	47
4	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
5	Ethanone, 2-hydroxy-1-phenyl-	136	C8H8O2	000582-24-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

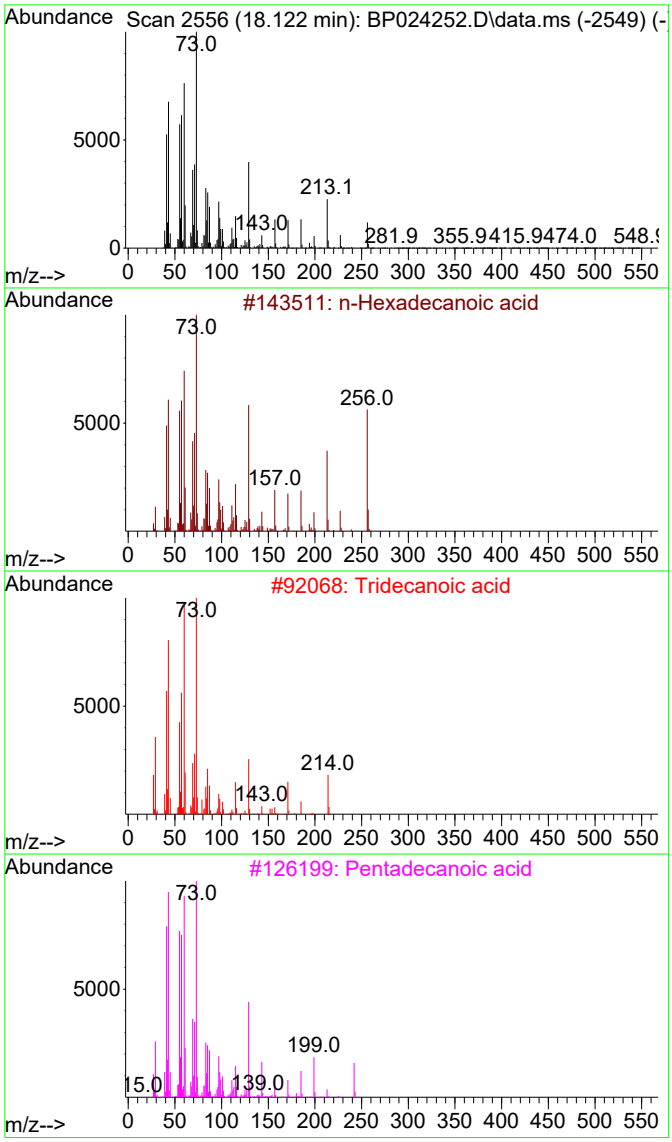
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

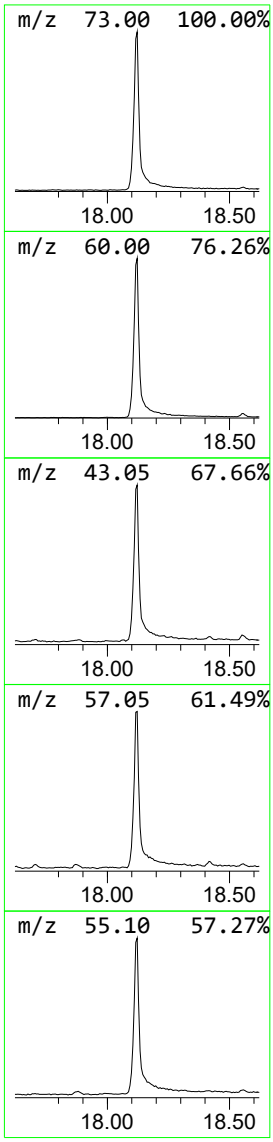
****

Peak Number 9 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.122	17.39 ng	2512280	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	n-Decanoic acid	172	C10H20O2	000334-48-5	76
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

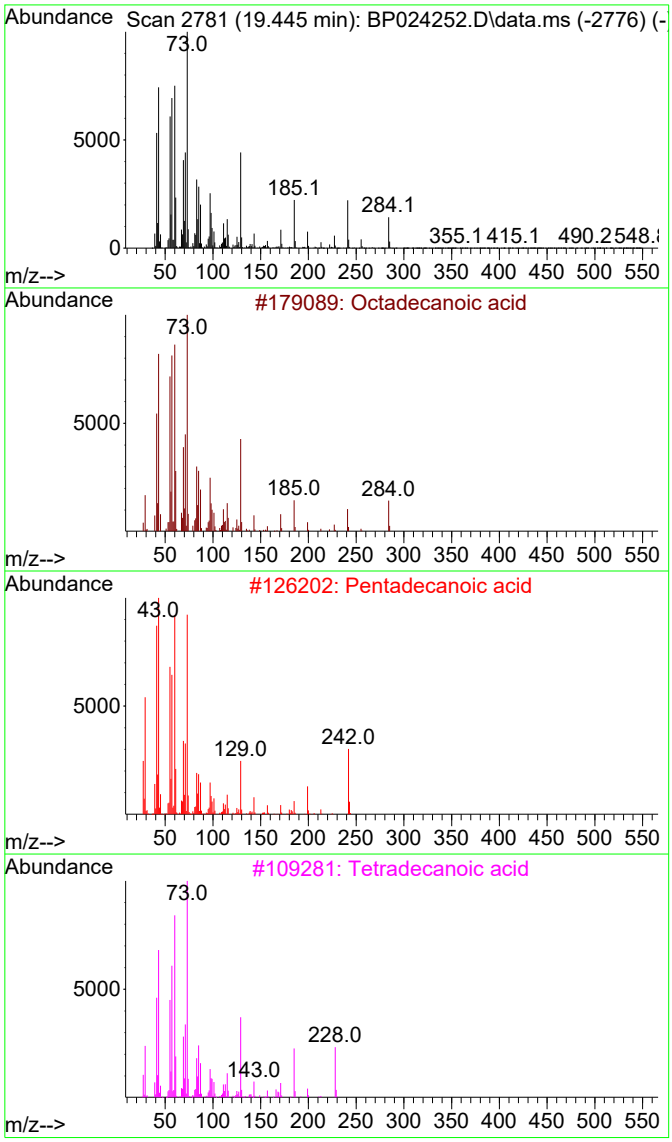
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

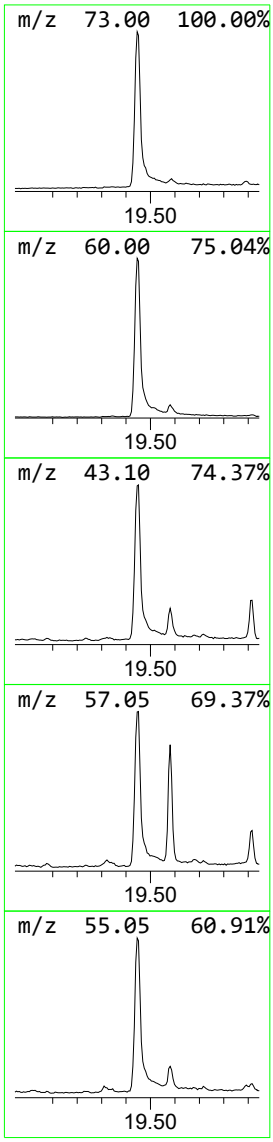
****

Peak Number 10 Octadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.445	20.38 ng	3337860	Chrysene-d12	21.616

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80
5	Tridecanoic acid	214	C13H26O2	000638-53-9	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

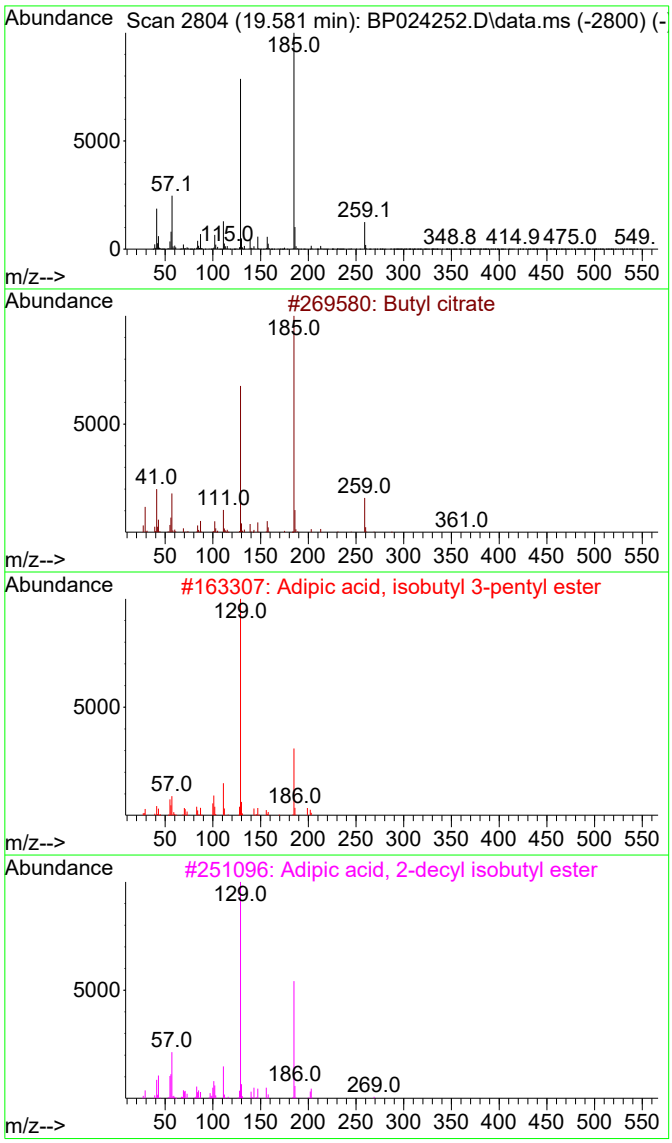
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

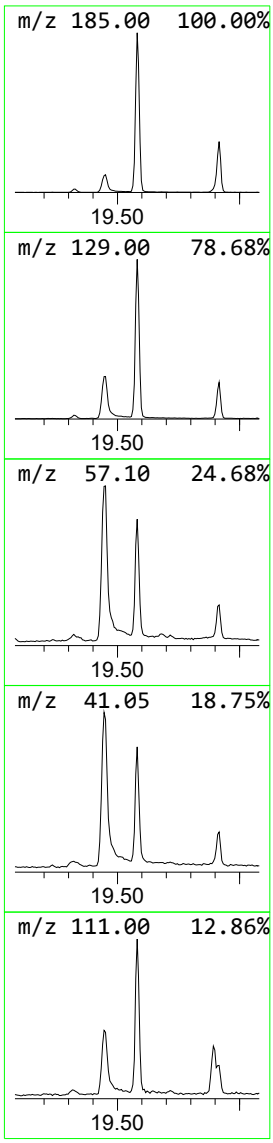
****

Peak Number 11 Butyl citrate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.581	8.71 ng	1426890	Chrysene-d12	21.616

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	91
2	Adipic acid, isobutyl 3-pentyl e...	272	C15H28O4	1000324-60-4	78
3	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	64
4	Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	64
5	Adipic acid, isobutyl 2-octyl ester	314	C18H34O4	1000324-44-5	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

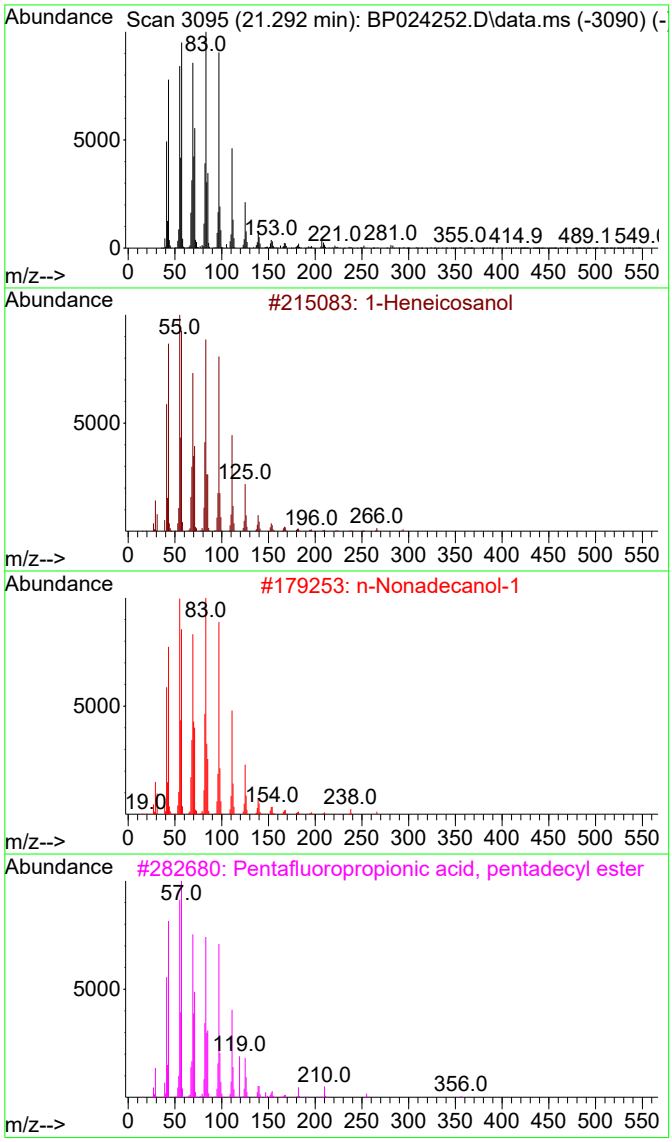
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

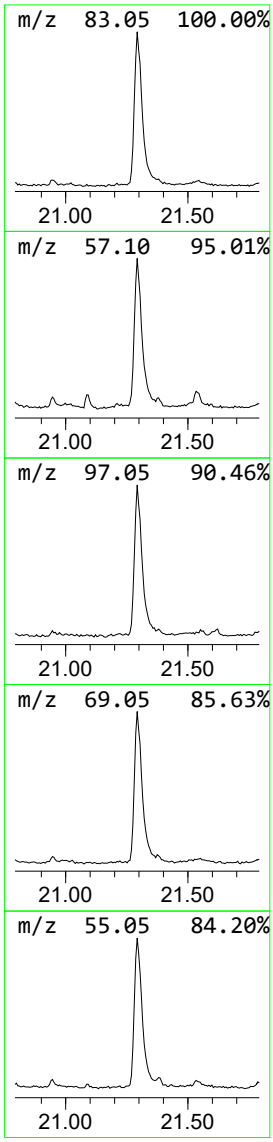
****

Peak Number 12 1-Heneicosanol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.292	10.29 ng	1684710	Chrysene-d12	21.616

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
3	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	94
4	Behenic alcohol	326	C22H46O	000661-19-8	94
5	Pentacos-1-ene	350	C25H50	016980-85-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024252.D
Acq On : 10 Apr 2025 14:36
Operator : RC/JU
Sample : Q1746-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.899	3.5	ng	261415	1	7.740	1471750	20.0
Benzene, 1,2,3,...	8.369	2.3	ng	169312	1	7.740	1471750	20.0
Benzene, 1,2,4,...	9.352	2.8	ng	283989	2	10.516	2056000	20.0
Benzene, 1,2,3,...	9.410	4.6	ng	476983	2	10.516	2056000	20.0
1-Phenyl-1-butene	9.922	3.4	ng	350330	2	10.516	2056000	20.0
Ethanol, 2-(2-b...	10.293	23.9	ng	2455280	2	10.516	2056000	20.0
Benzophenone	15.751	10.9	ng	1400510	3	14.369	2581410	20.0
n-Hexadecanoic ...	18.122	17.4	ng	2512280	4	17.175	2889720	20.0
Octadecanoic acid	19.445	20.4	ng	3337860	5	21.616	3275540	20.0
Butyl citrate	19.581	8.7	ng	1426890	5	21.616	3275540	20.0
1-Heneicosanol	21.292	10.3	ng	1684710	5	21.616	3275540	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024253.D
Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025

Quant Time: Apr 10 15:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	262973	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	1043722	20.000	ng	-0.01
39) Acenaphthene-d10	14.375	164	640452	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1285267	20.000	ng	-0.02
76) Chrysene-d12	21.622	240	1386094	20.000	ng	-0.02
86) Perylene-d12	24.992	264	1576982	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	1128096	68.477	ng	0.00
7) Phenol-d6	6.922	99	898829	40.800	ng	0.00
23) Nitrobenzene-d5	8.887	82	1844811	99.726	ng	0.00
42) 2,4,6-Tribromophenol	15.893	330	1385077	171.690	ng	0.00
45) 2-Fluorobiphenyl	12.987	172	4085839	94.069	ng	-0.01
79) Terphenyl-d14	19.904	244	6465473	96.286	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.781	122	52954m	4.844	ng	
74) Di-n-butylphthalate	18.192	149	313010	3.998	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024253.D
Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 10 15:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/11/2025
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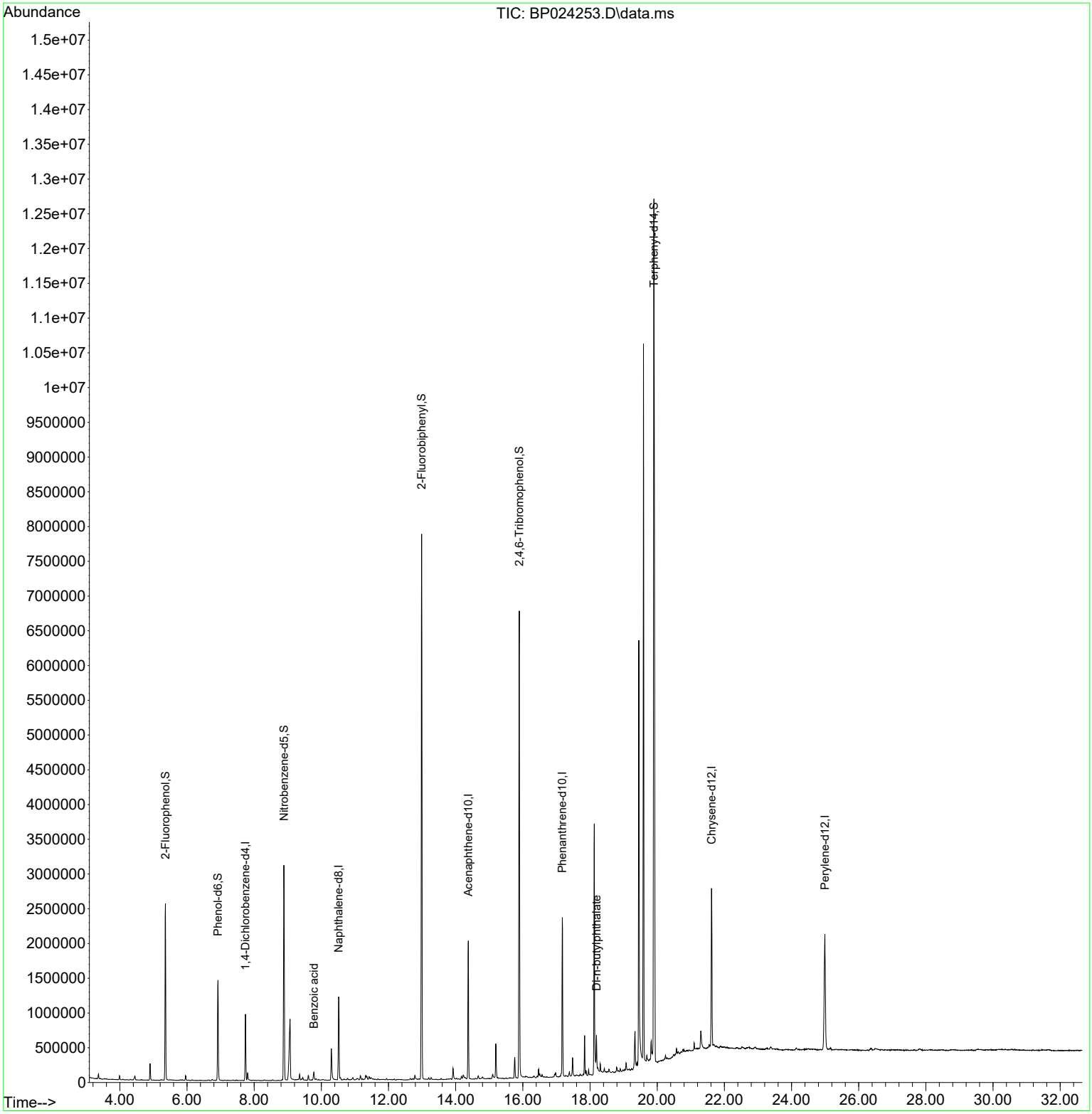
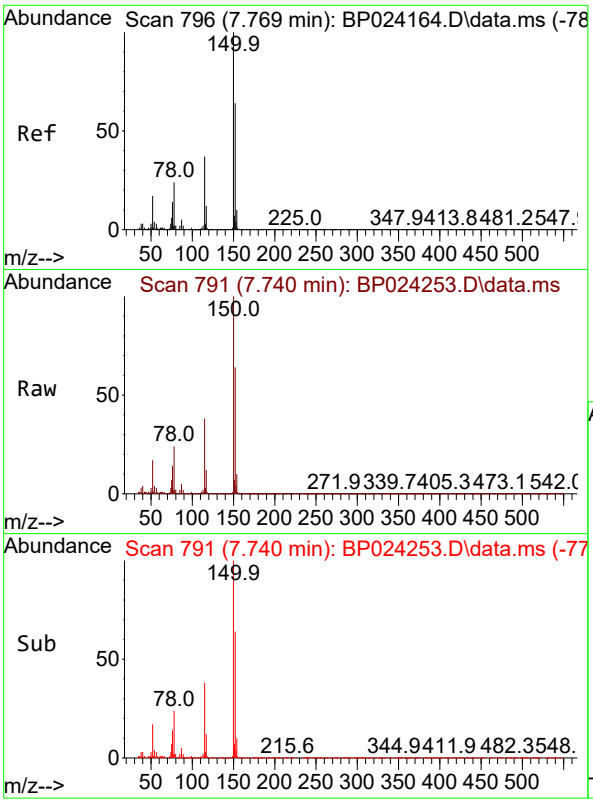
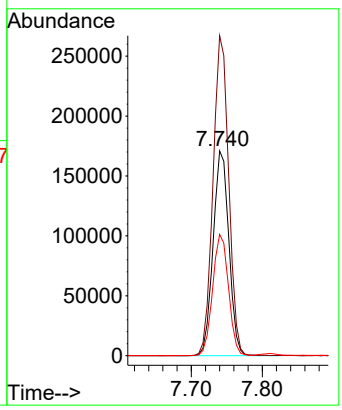




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:152 Resp: 26297

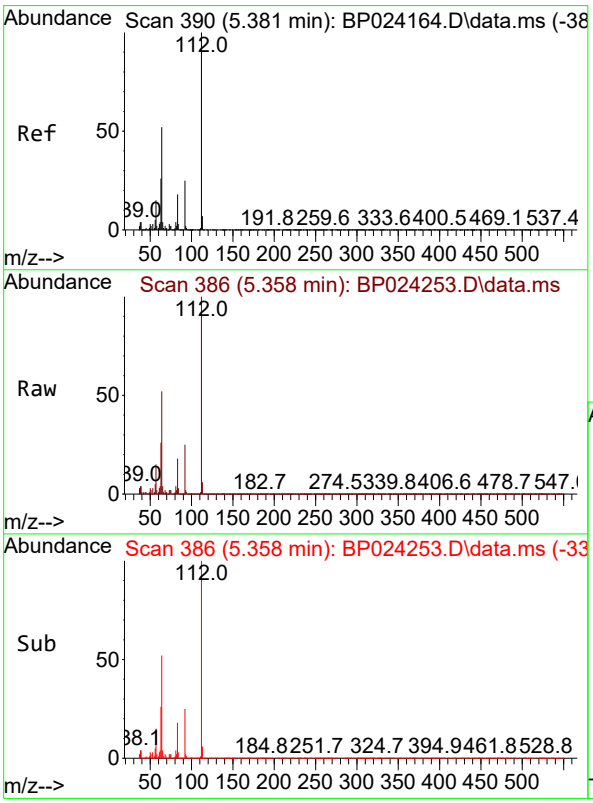
Ion	Ratio	Lower	Upper
152	100		
150	156.3	125.5	188.3
115	59.2	46.3	69.5



Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations APPROVED

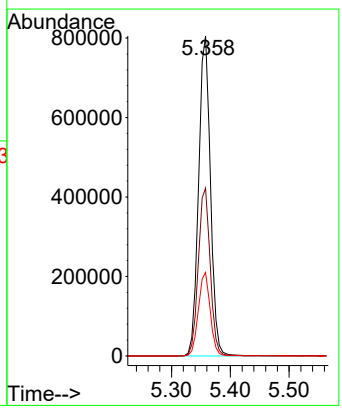
Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025

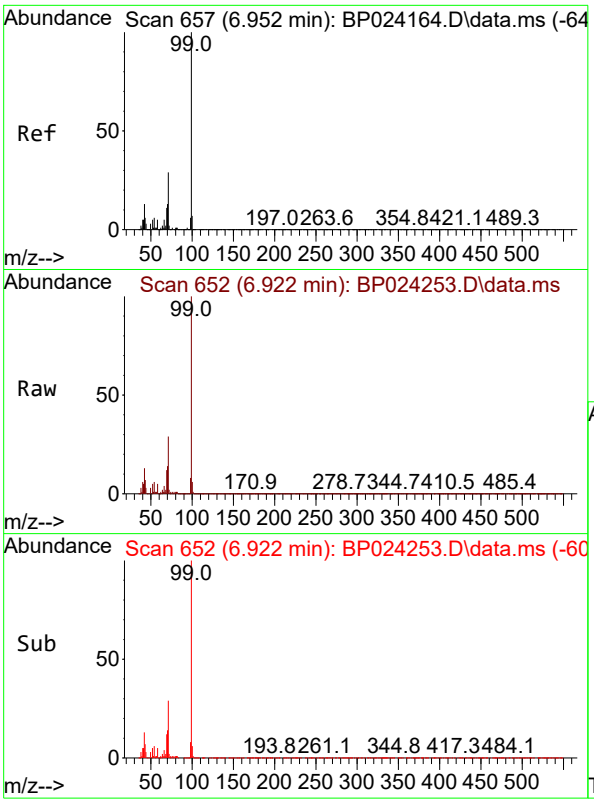


#5
2-Fluorophenol
Concen: 68.477 ng
RT: 5.358 min Scan# 386
Delta R.T. 0.000 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:112 Resp: 1128096

Ion	Ratio	Lower	Upper
112	100		
64	52.5	41.3	61.9
63	26.1	20.6	31.0

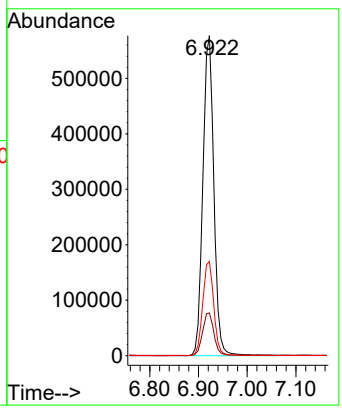




#7
Phenol-d6
Concen: 40.800 ng
RT: 6.922 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion: 99 Resp: 89882

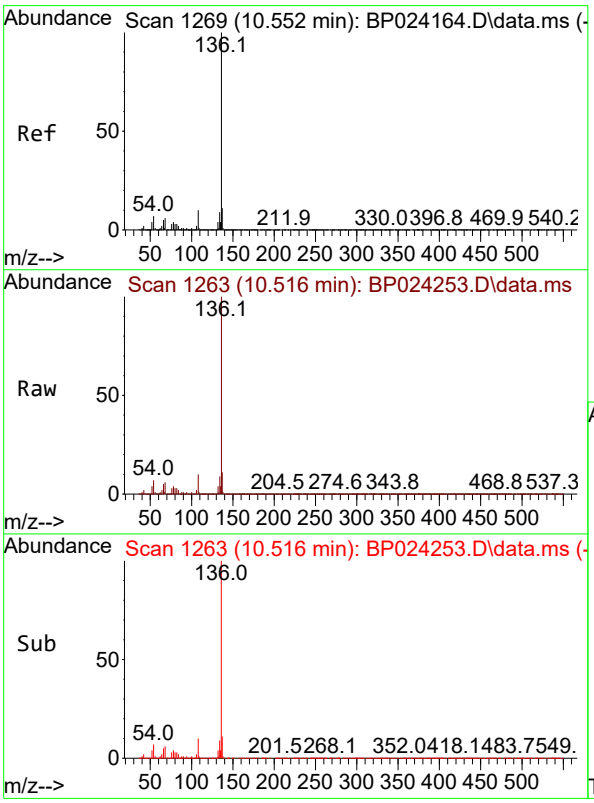
Ion	Ratio	Lower	Upper
99	100		
42	13.4	10.6	16.0
71	29.5	23.3	34.9



Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations APPROVED

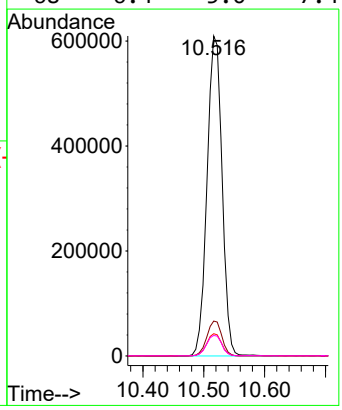
Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025

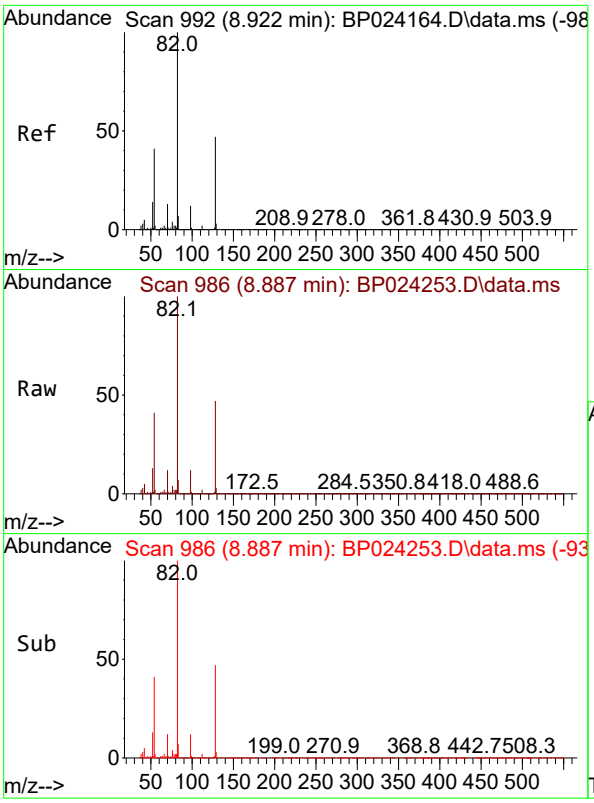


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.011 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:136 Resp: 1043722

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	7.0	5.3	7.9
68	6.4	5.0	7.4





#23
Nitrobenzene-d5
Concen: 99.726 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

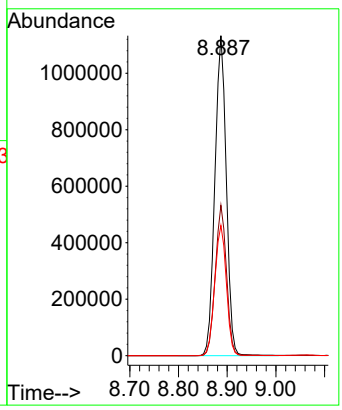
Tgt Ion: 82 Resp: 184481

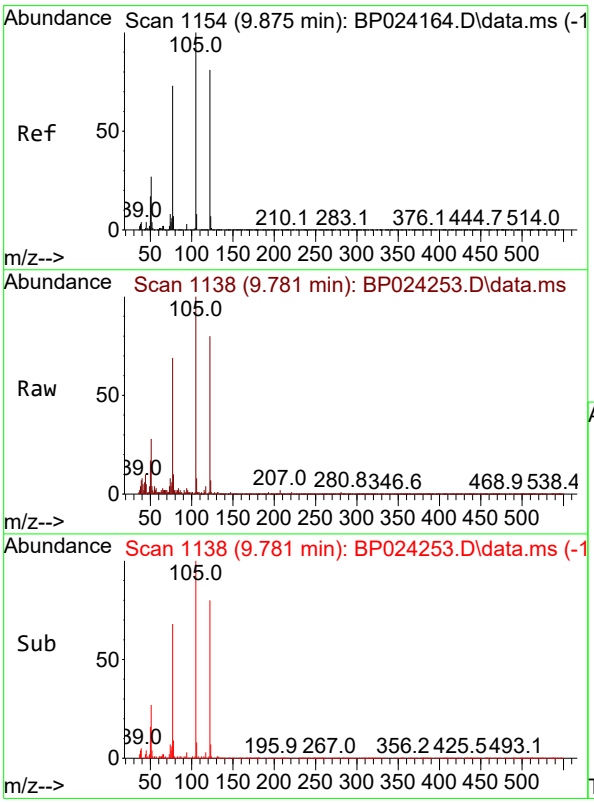
Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.4	56.0
54	40.7	32.5	48.7

Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025

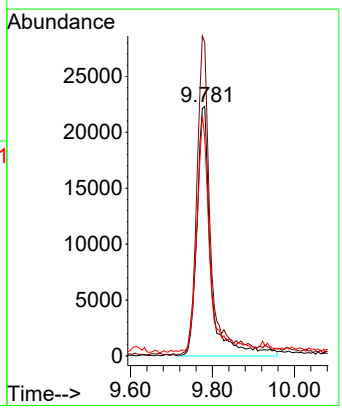


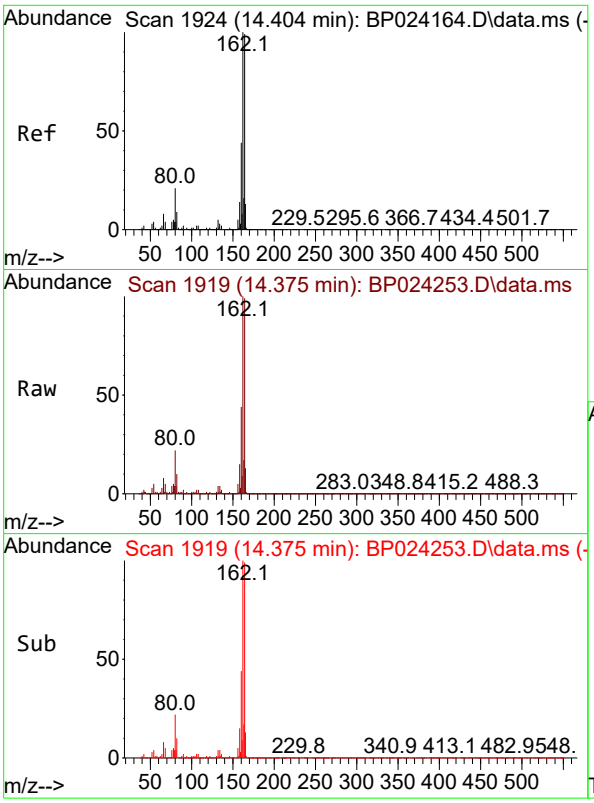


#32
Benzoic acid
Concen: 4.844 ng m
RT: 9.781 min Scan# 1138
Delta R.T. -0.070 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:122 Resp: 52954

Ion	Ratio	Lower	Upper
122	100		
105	125.6	100.3	140.3
77	87.3	69.1	109.1

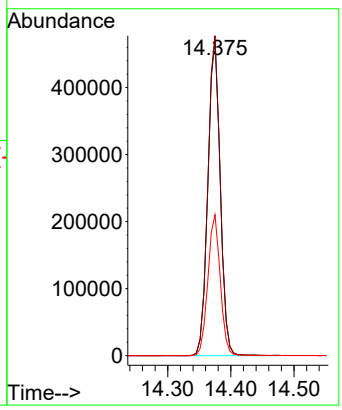




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.375 min Scan# 1
Delta R.T. -0.017 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:164 Resp: 64045

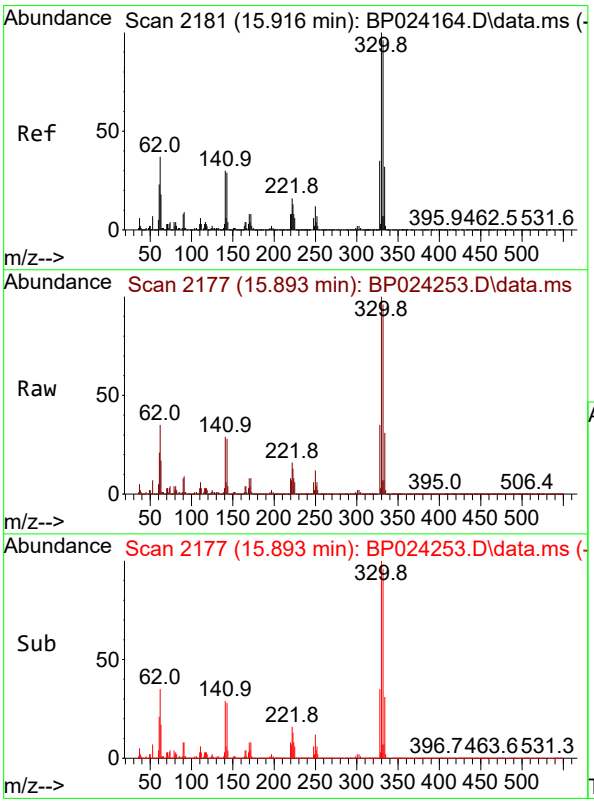
Ion	Ratio	Lower	Upper
164	100		
162	101.3	80.6	121.0
160	44.6	35.4	53.2



Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations APPROVED

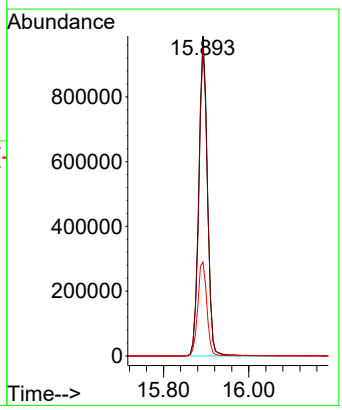
Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025

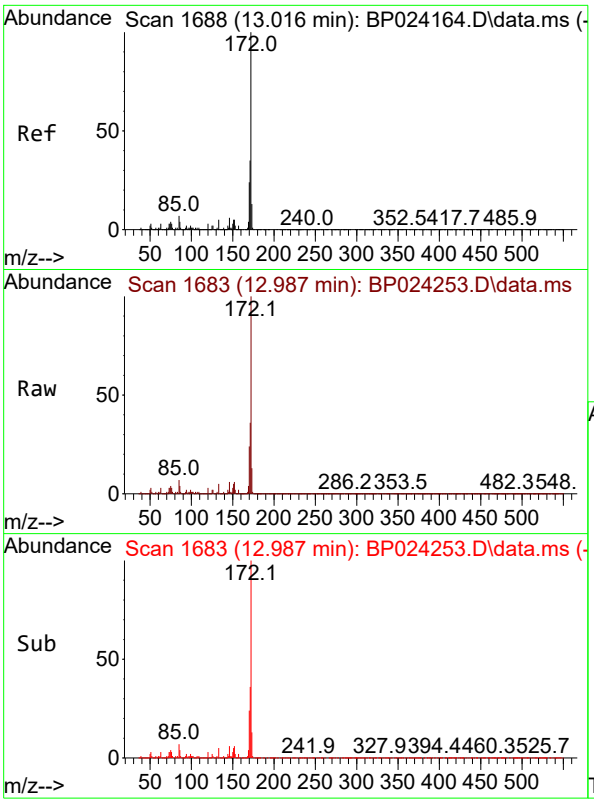


#42
2,4,6-Tribromophenol
Concen: 171.690 ng
RT: 15.893 min Scan# 2177
Delta R.T. -0.006 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:330 Resp: 1385077

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	30.9	25.0	37.6

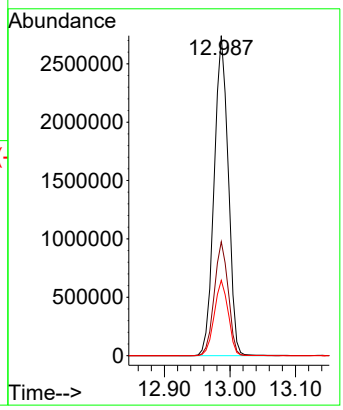




#45
2-Fluorobiphenyl
Concen: 94.069 ng
RT: 12.987 min Scan# 1
Delta R.T. -0.011 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:172 Resp: 408583

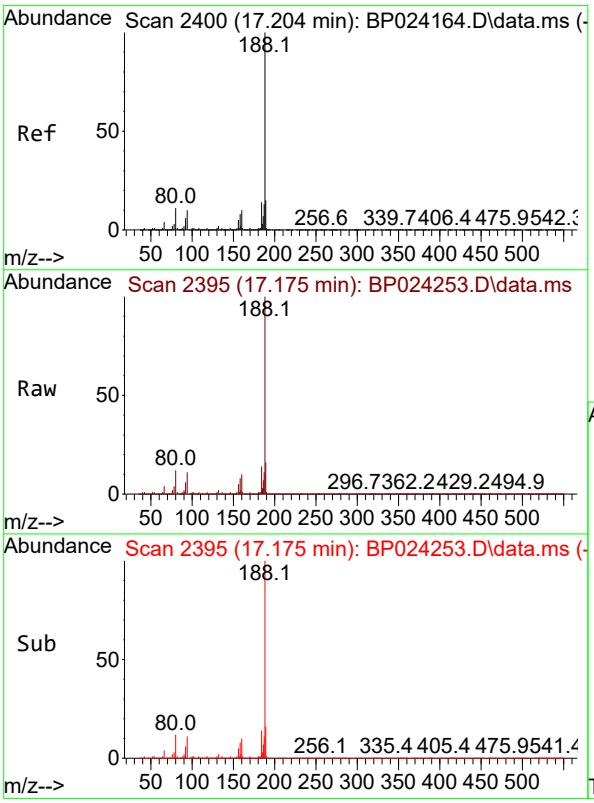
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.3	42.5
170	23.6	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations
APPROVED

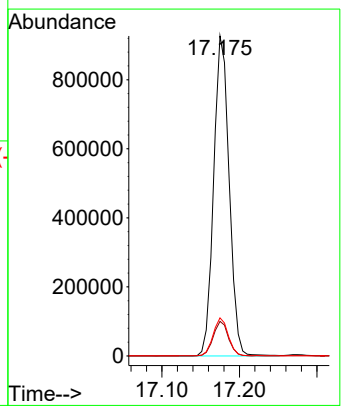
Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025

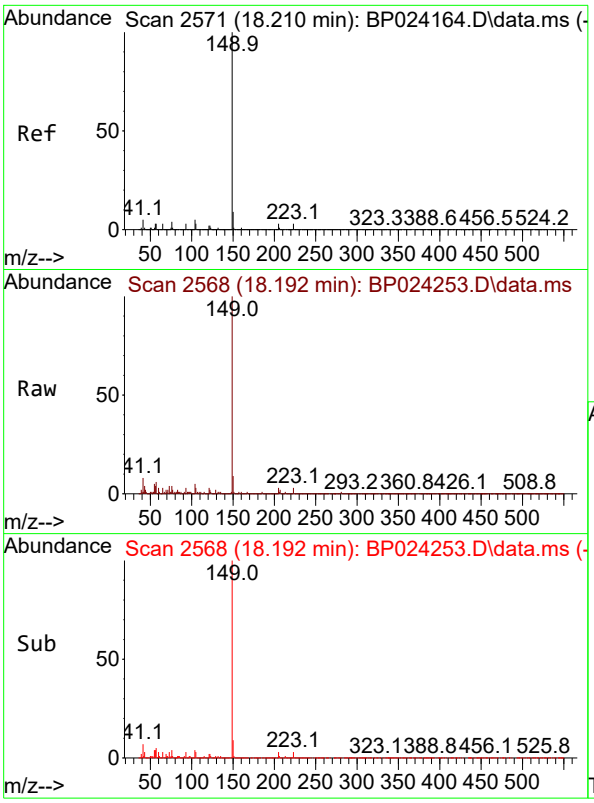


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.175 min Scan# 2395
Delta R.T. -0.017 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:188 Resp: 1285267

Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.1	12.1
80	11.9	8.9	13.3

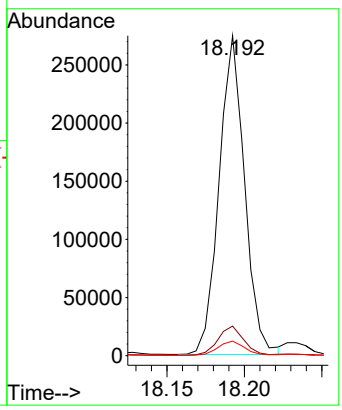




#74
Di-n-butylphthalate
Concen: 3.998 ng
RT: 18.192 min Scan# 2
Delta R.T. -0.011 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:149 Resp: 31301

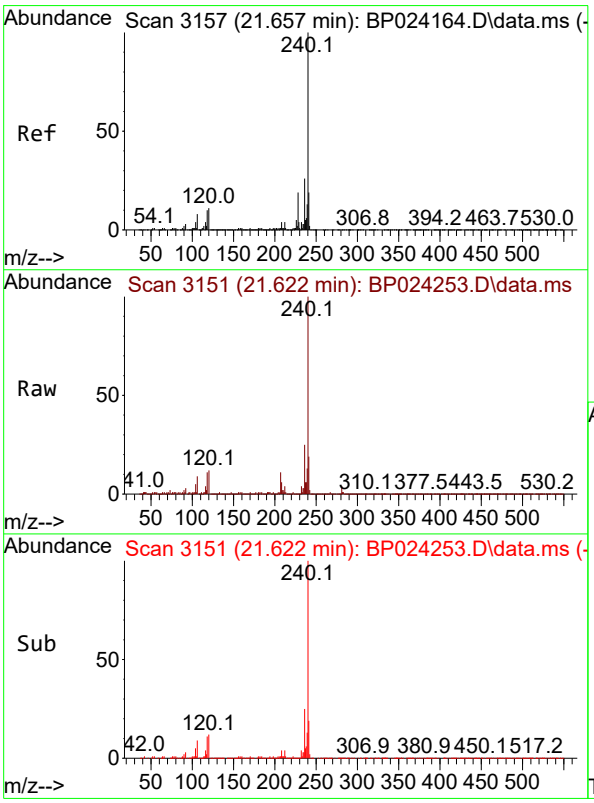
Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.6	11.4
104	4.6	3.9	5.9



Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations
APPROVED

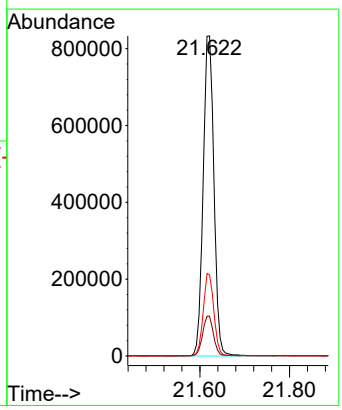
Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025

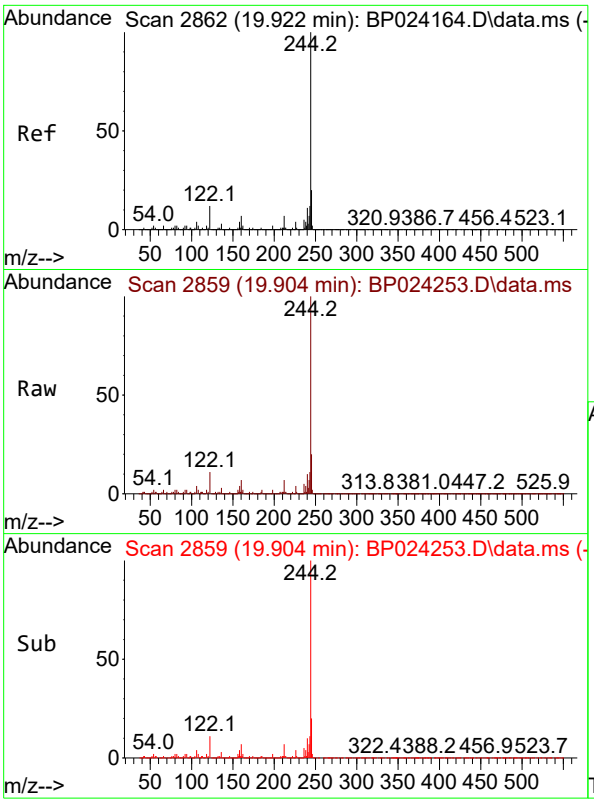


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.622 min Scan# 3151
Delta R.T. -0.023 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:240 Resp: 1386094

Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.2	13.8
236	25.4	20.4	30.6

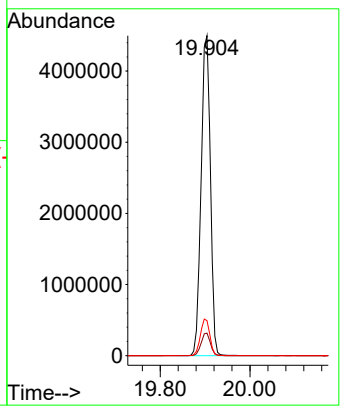




#79
Terphenyl-d14
Concen: 96.286 ng
RT: 19.904 min Scan# 2
Delta R.T. -0.011 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:244 Resp: 646547

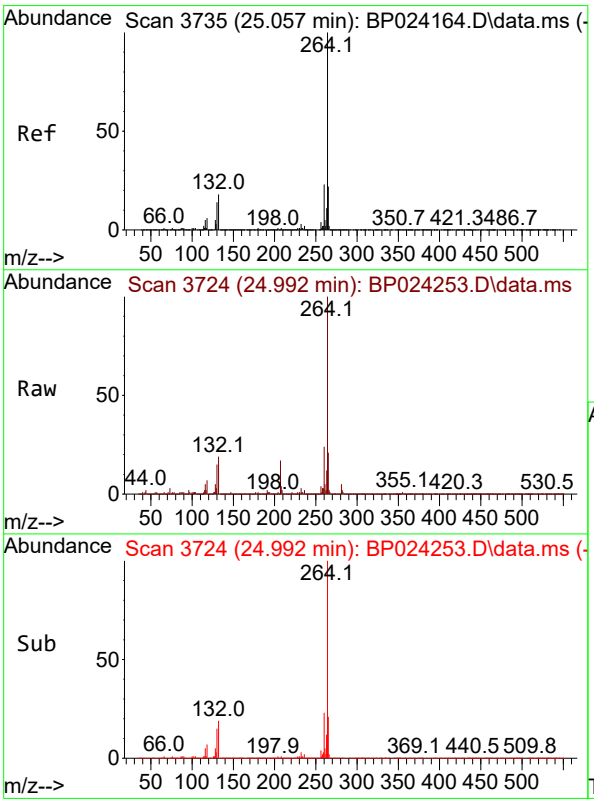
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	10.9	9.6	14.4



Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Manual Integrations
APPROVED

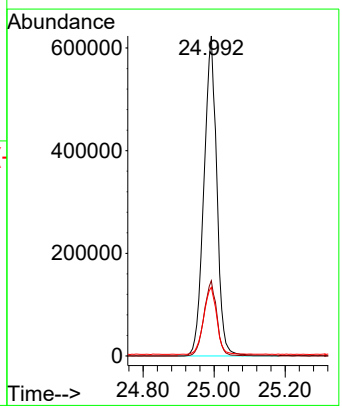
Reviewed By :Anahy Claudio 04/11/2025
Supervised By :Jagrut Upadhyay 04/11/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.992 min Scan# 3724
Delta R.T. -0.017 min
Lab File: BP024253.D
Acq: 10 Apr 2025 15:17

Tgt Ion:264 Resp: 1576982

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.5	27.7
265	21.5	17.7	26.5



Sample Results: **BP024253.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024253.D
Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024253.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.899	300	308	317	rBV	241377	348645	1.40%	0.318%
2	5.358	379	386	402	rBV	2541603	3566321	14.29%	3.251%
3	6.922	643	652	667	rBV	1441888	2298472	9.21%	2.095%
4	7.740	782	791	798	rBV	954225	1473423	5.90%	1.343%
5	8.887	979	986	997	rBV	3088961	5008040	20.07%	4.565%
6	9.069	1003	1017	1028	rBV	876415	2225212	8.92%	2.029%
7	10.299	1219	1226	1241	rBV	455556	884774	3.55%	0.807%
8	10.516	1256	1263	1269	rBV	1193915	2051177	8.22%	1.870%
9	12.987	1675	1683	1698	rVB	7845489	11700819	46.89%	10.667%
10	13.922	1835	1842	1850	rBV	161296	303139	1.21%	0.276%
11	14.375	1913	1919	1926	rVB	1979511	2686864	10.77%	2.449%
12	15.193	2053	2058	2066	rVB2	493694	746146	2.99%	0.680%
13	15.757	2148	2154	2162	rBV	302646	470488	1.89%	0.429%
14	15.893	2170	2177	2197	rBV	6721930	9892528	39.64%	9.018%
15	17.175	2390	2395	2406	rVB2	2285811	3203941	12.84%	2.921%
16	17.481	2442	2447	2456	rVB	263456	386521	1.55%	0.352%
17	17.839	2503	2508	2512	rBV	566479	717564	2.88%	0.654%
18	18.128	2551	2557	2564	rBV	3604023	4849310	19.43%	4.421%
19	18.192	2564	2568	2573	rVB	483265	629956	2.52%	0.574%
20	19.339	2756	2763	2769	rBV	516572	899305	3.60%	0.820%
21	19.451	2777	2782	2800	rBV	6105900	9229938	36.99%	8.414%
22	19.592	2800	2806	2819	rVB	10331271	12449703	49.89%	11.349%
23	19.822	2841	2845	2848	rBV	258526	364379	1.46%	0.332%
24	19.904	2852	2859	2868	rVB2	12413558	24955647	100.00%	22.750%
25	21.298	3092	3096	3115	rVB2	250337	572196	2.29%	0.522%
26	21.616	3145	3150	3157	rBV2	2255241	3693701	14.80%	3.367%
27	24.992	3715	3724	3736	rVB	1649588	4086896	16.38%	3.726%

Sum of corrected areas: 109695105

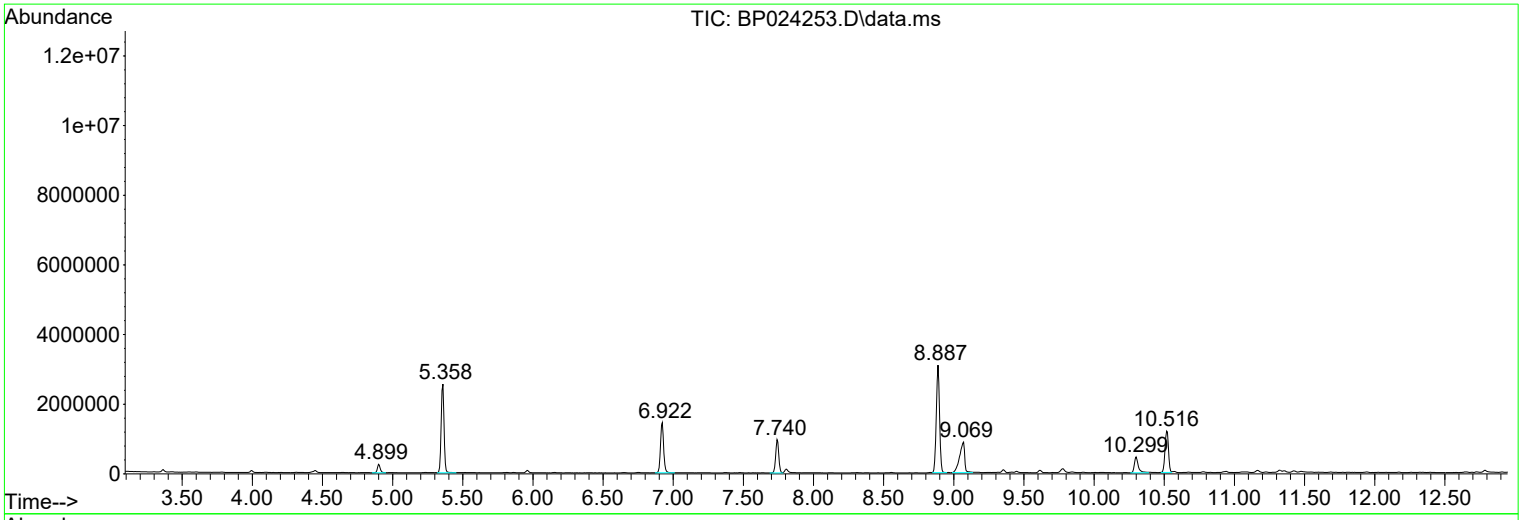
Sample Results: **BP024253.D**

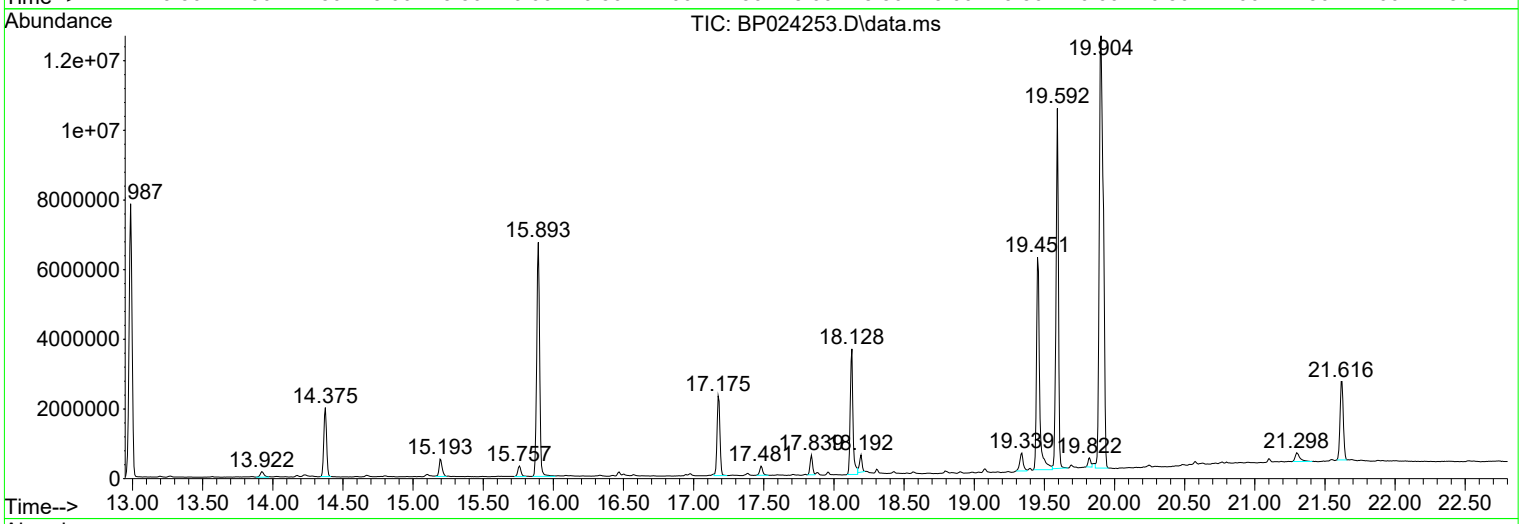
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024253.D
Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

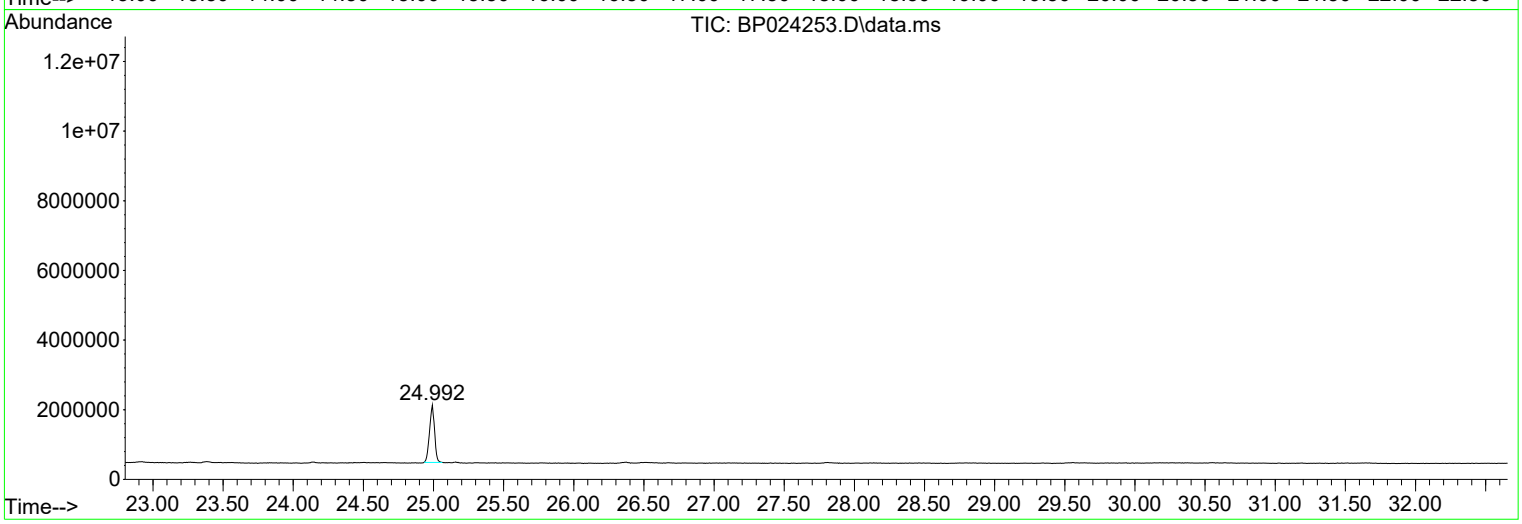
Instrument :
BNA_P
ClientSampleId :
B-149-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024253.D
Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-GW01

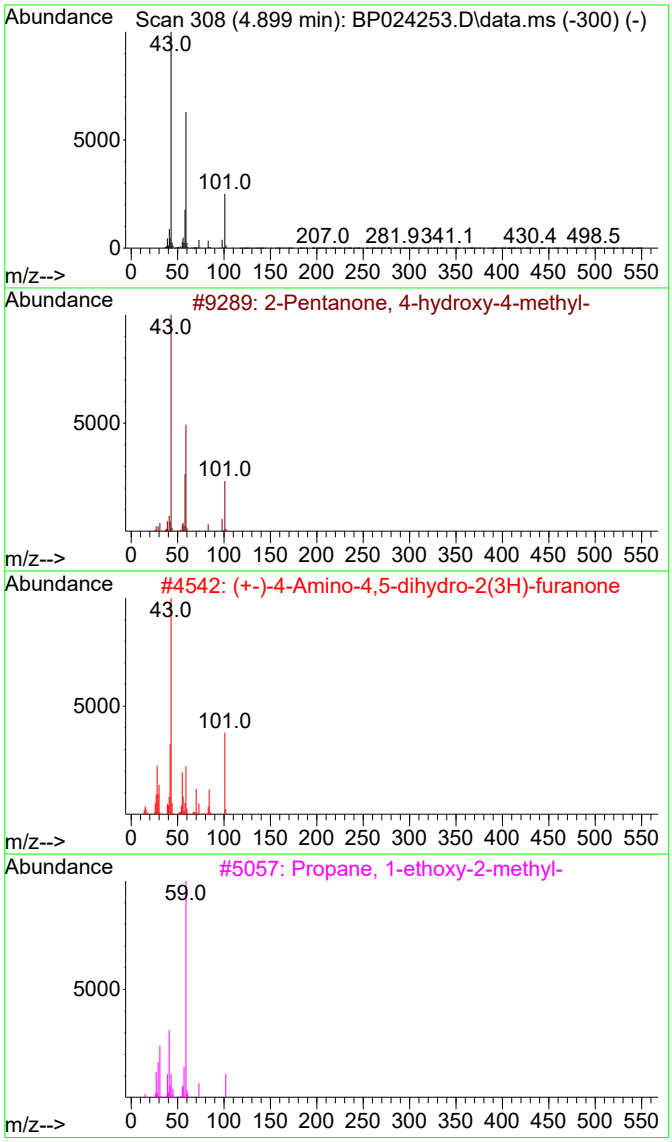
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

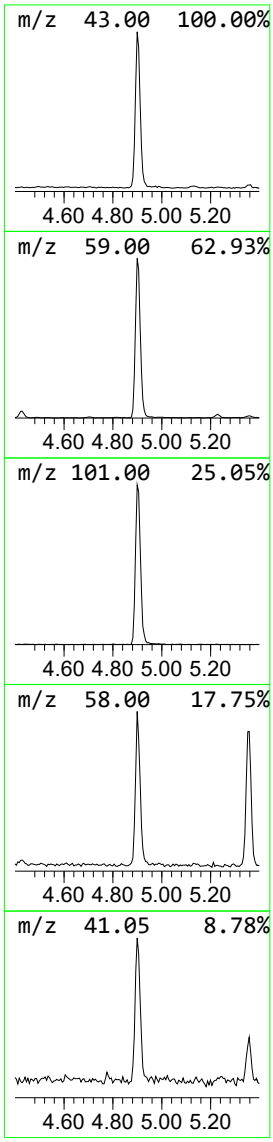
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.899	4.73 ng	348645	1,4-Dichlorobenzene-d4	7.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	37
3	Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	35
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
5	2-Pentanol, 2,4-dimethyl-	116	C7H16O	000625-06-9	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024253.D
Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-GW01

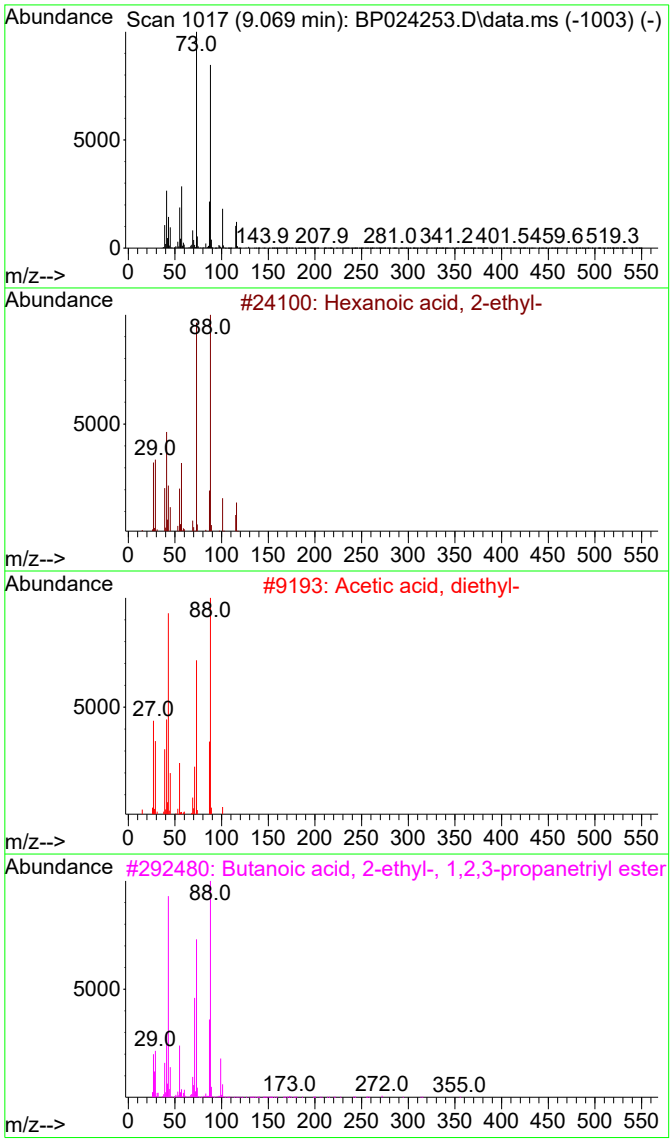
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

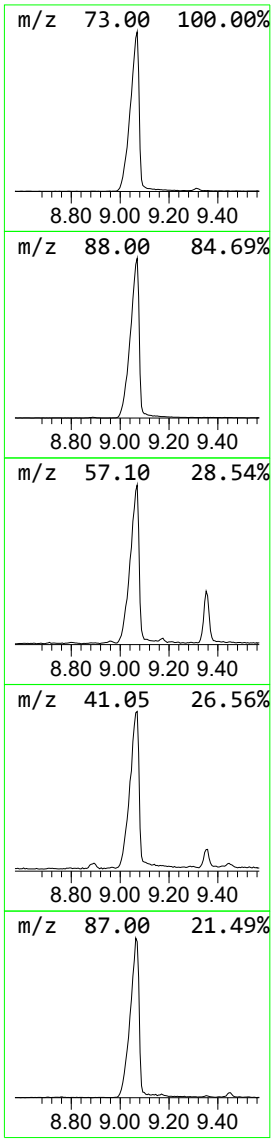
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Hexanoic acid, 2-ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.069	30.20 ng	2225210	1,4-Dichlorobenzene-d4	7.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2	Acetic acid, diethyl-	116	C6H12O2	000088-09-5	59
3	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	45
4	2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	43
5	Heptanoic acid, 2-ethyl-	158	C9H18O2	003274-29-1	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041025\
Data File : BP024253.D
Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-GW01

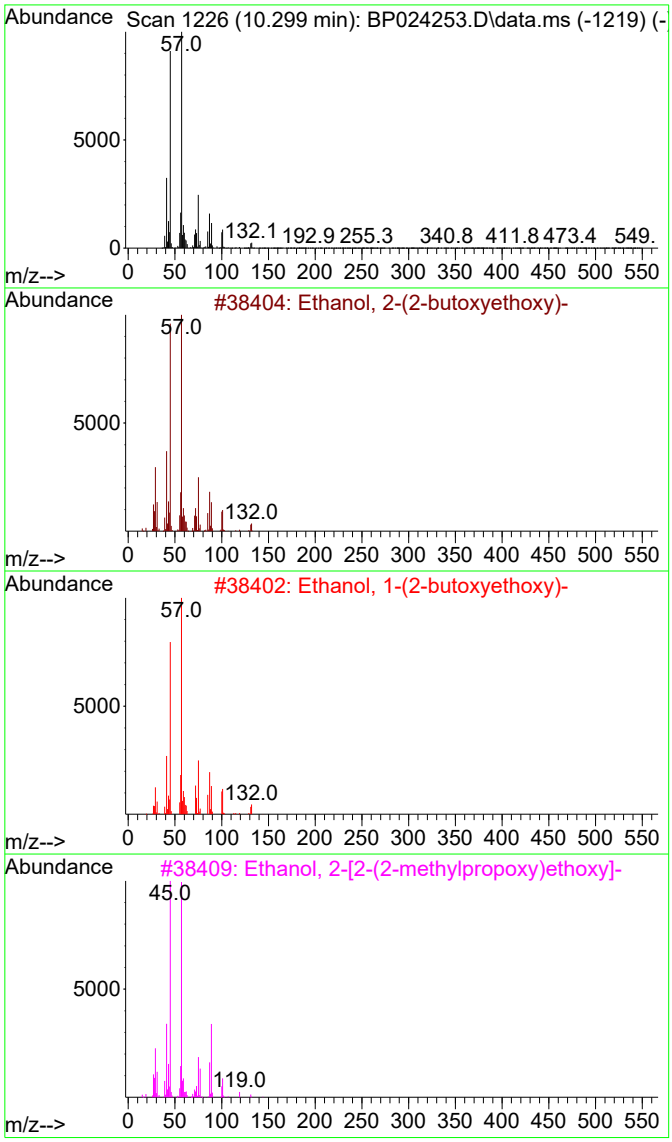
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

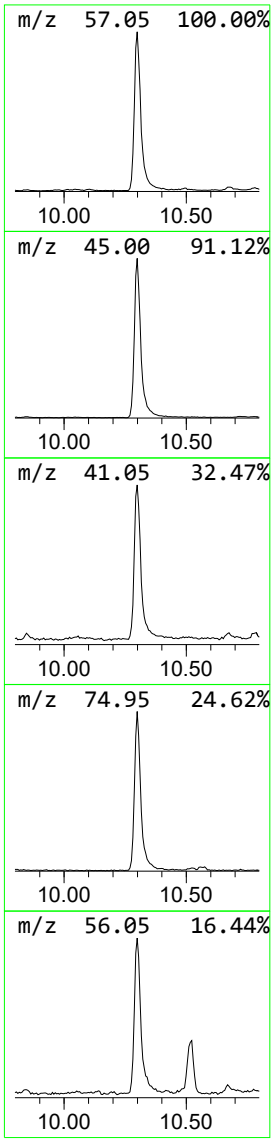
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Ethanol, 2-(2-butoxyethoxy)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.299	8.63 ng	884774	Naphthalene-d8	10.516

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-butoxyethoxy)-	162	C8H18O3	000112-34-5	91
2	Ethanol, 1-(2-butoxyethoxy)-	162	C8H18O3	054446-78-5	83
3	Ethanol, 2-[2-(2-methylpropoxy)e...	162	C8H18O3	018912-80-6	72
4	Ethylene glycol monoisobutyl ether	118	C6H14O2	004439-24-1	64
5	Di-sec-Butyl ether	130	C8H18O	006863-58-7	50





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Acq On : 10 Apr 2025 15:17
Operator : RC/JU
Sample : Q1746-06
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
B-149-GW01

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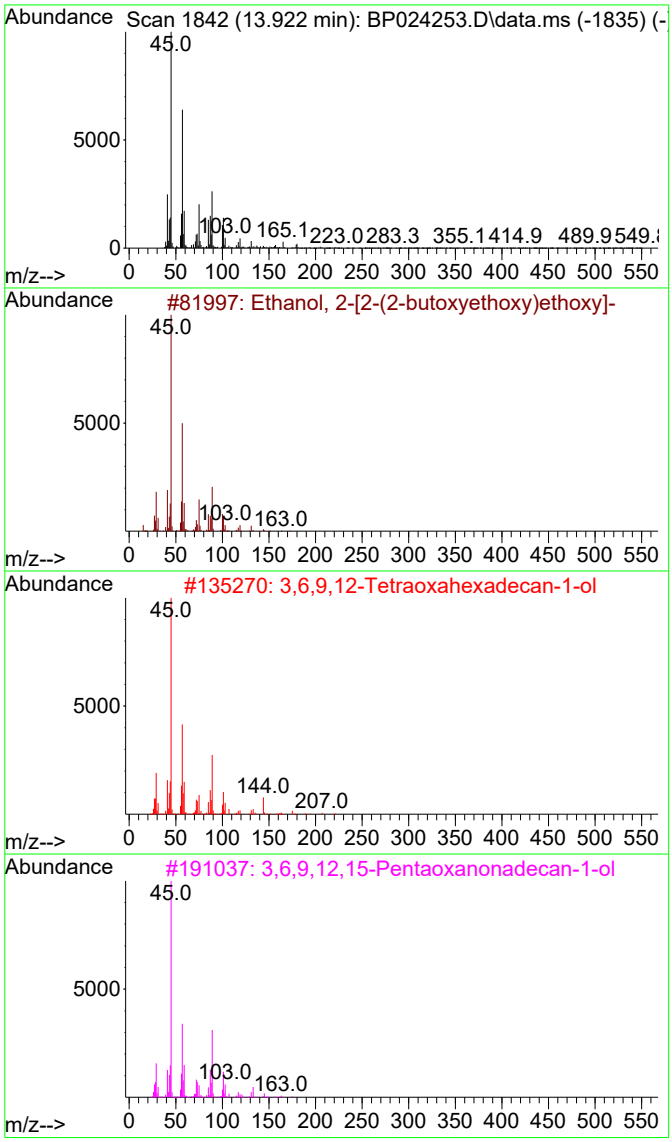
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

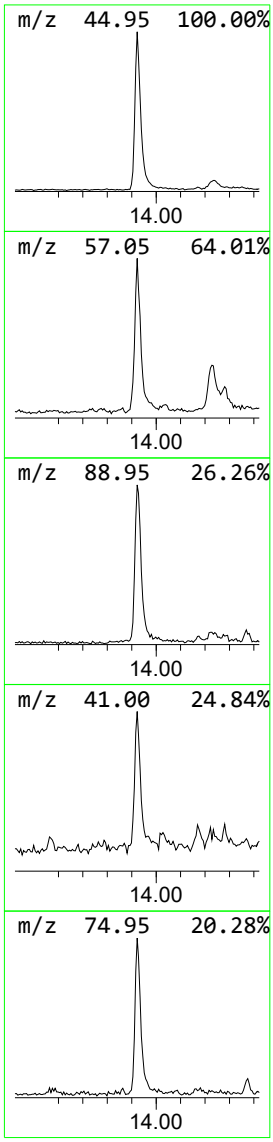
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Ethanol, 2-[2-(2-butoxyetho... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.922	2.26 ng	303139	Acenaphthene-d10	14.375

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-[2-(2-butoxyethoxy)et...	206	C10H22O4	000143-22-6	91
2	3,6,9,12-Tetraoxahexadecan-1-ol	250	C12H26O5	001559-34-8	72
3	3,6,9,12,15-Pentaoxanonadecan-1-ol	294	C14H30O6	001786-94-3	64
4	Ethanol, 2-(2-butoxyethoxy)-	162	C8H18O3	000112-34-5	64
5	Ethanol, 2-[2-(2-methylpropoxy)e...	162	C8H18O3	018912-80-6	64





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ClientSampleId :
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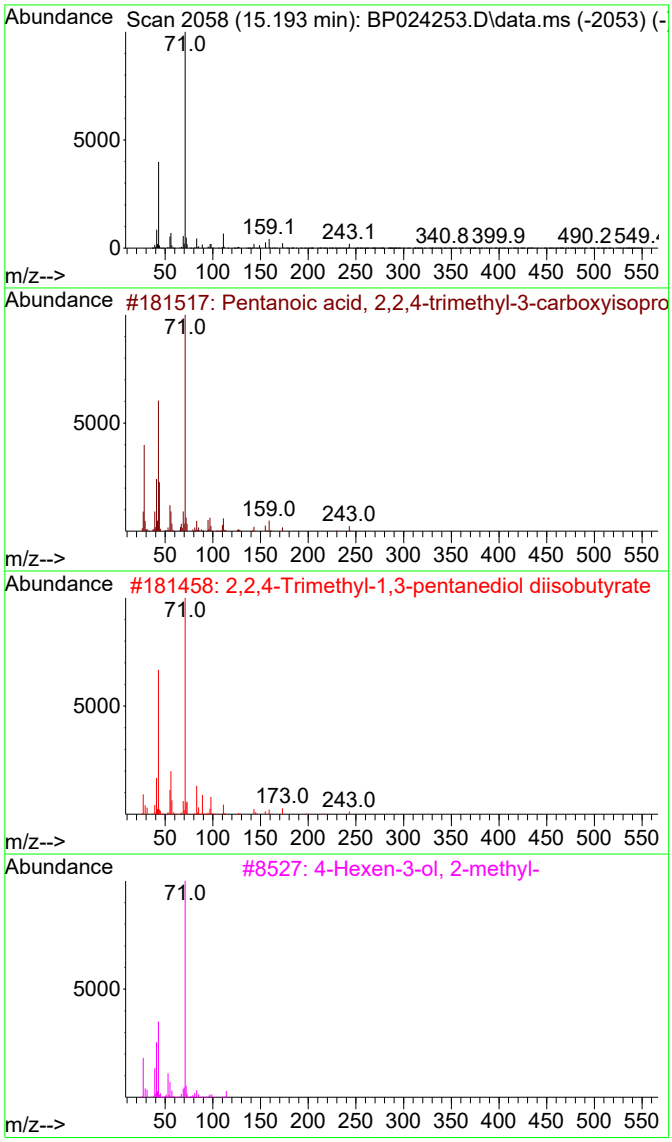
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

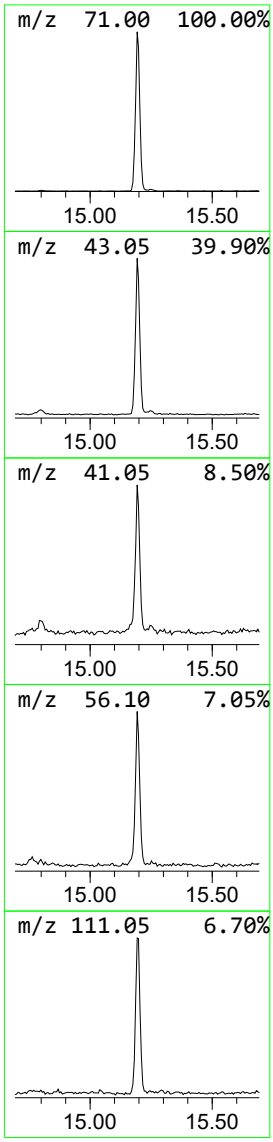
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Pentanoic acid, 2,2,4-trime... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.193	5.55 ng	746146	Acenaphthene-d10	14.375

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanoic acid, 2,2,4-trimethyl-...	286	C16H30O4	1000140-77-5	74
2	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	56
3	4-Hexen-3-ol, 2-methyl-	114	C7H14O	004798-60-1	45
4	Fumaric acid, nonyl tetrahydrofu...	326	C18H30O5	1000330-58-3	45
5	Diethylmalonic acid, monochlorid...	262	C12H19ClO4	1000370-65-0	45





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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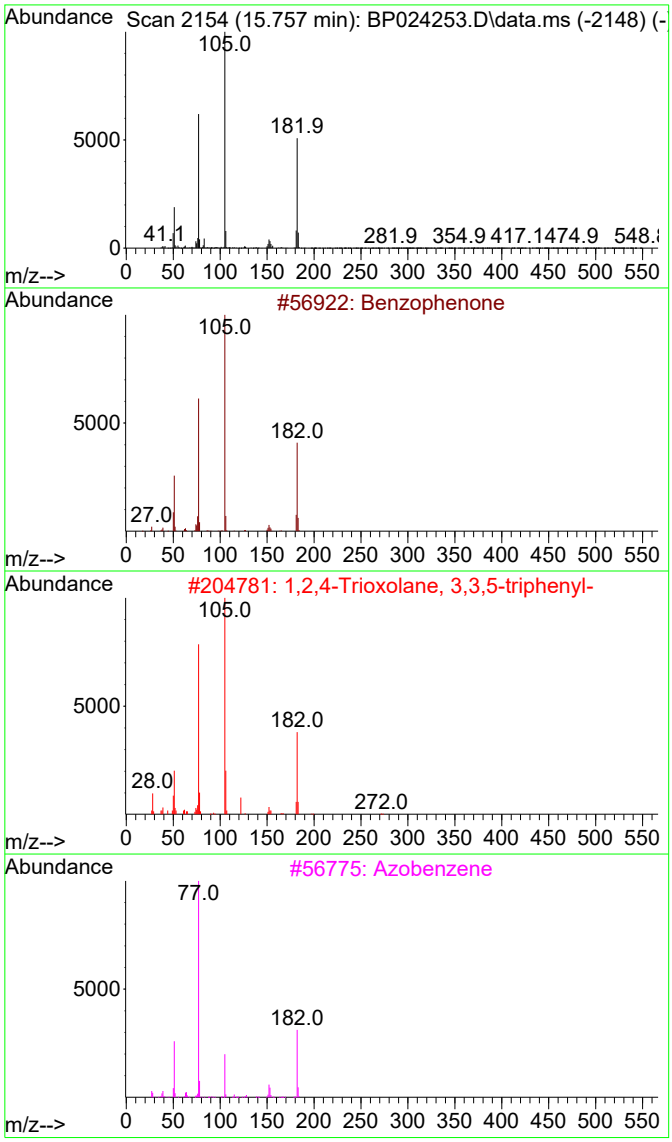
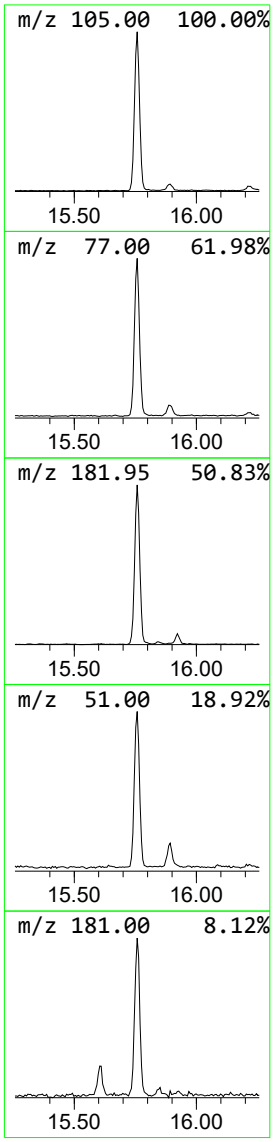
****

Peak Number 6 Benzophenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.757	3.50 ng	470488	Acenaphthene-d10	14.375

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	50
3	Azobenzene	182	C12H10N2	000103-33-3	45
4	Azobenzene, (E)-	182	C12H10N2	017082-12-1	42
5	1,1-Diphenyl-2-phenylthiobut-3-e...	332	C22H20OS	097370-20-2	38





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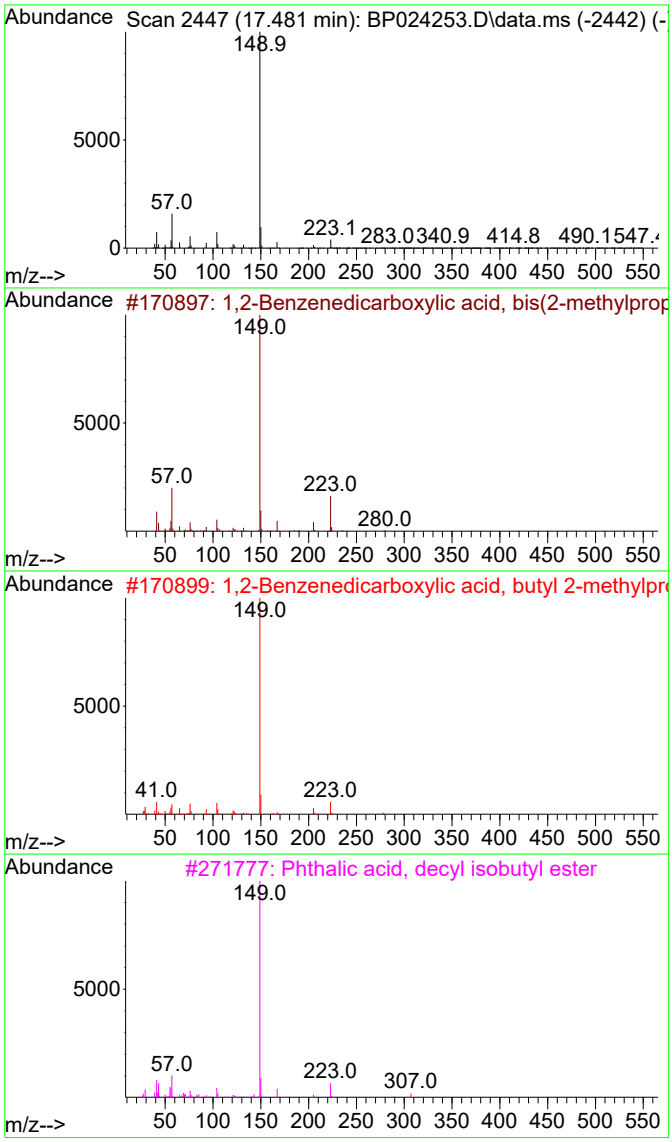
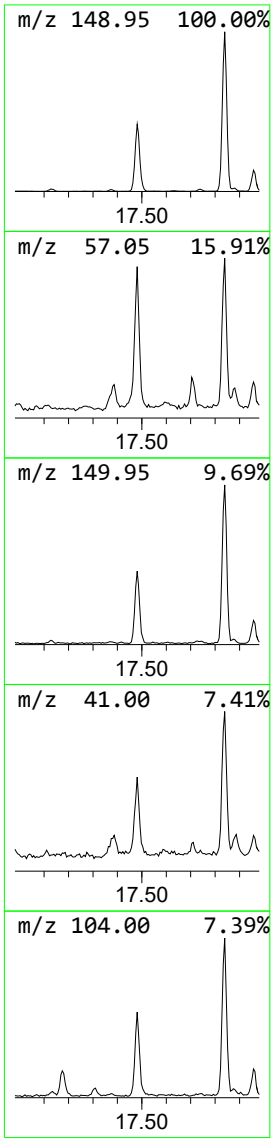
****
Peak Number 7 1,2-Benzenedicarboxylic aci... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.481	2.41 ng	386521	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	91
2	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	86
3	Phthalic acid, decyl isobutyl ester	362	C22H34O4	1000308-94-2	83
4	Phthalic acid, butyl 2-ethylbuty...	306	C18H26O4	1000356-89-0	80
5	Dibutyl phthalate	278	C16H22O4	000084-74-2	78





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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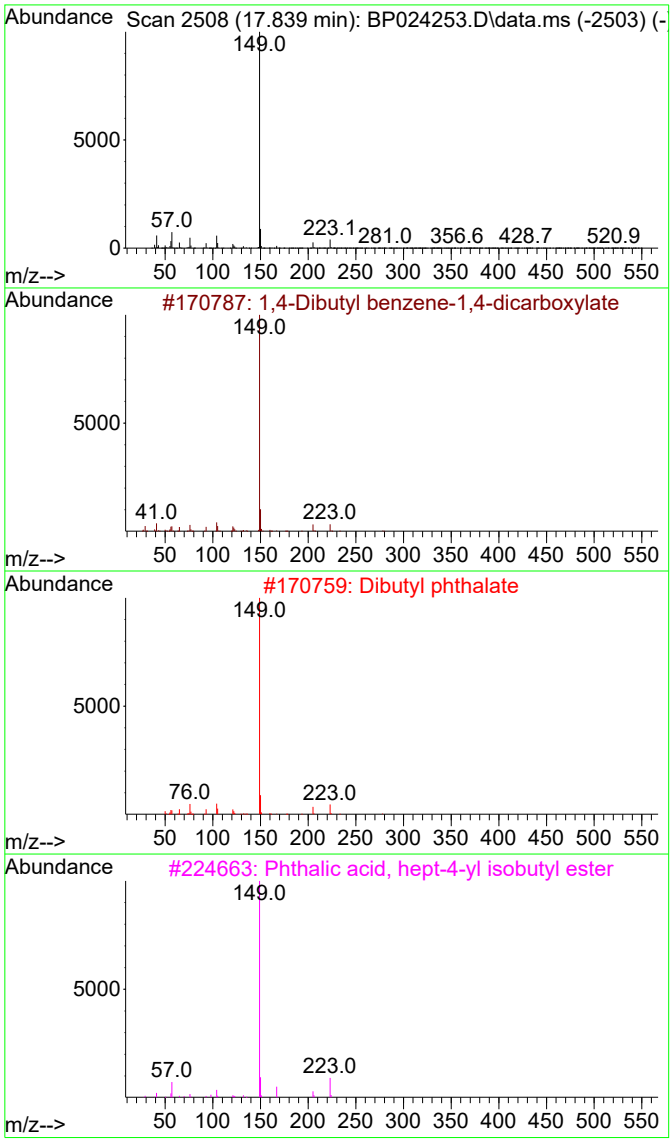
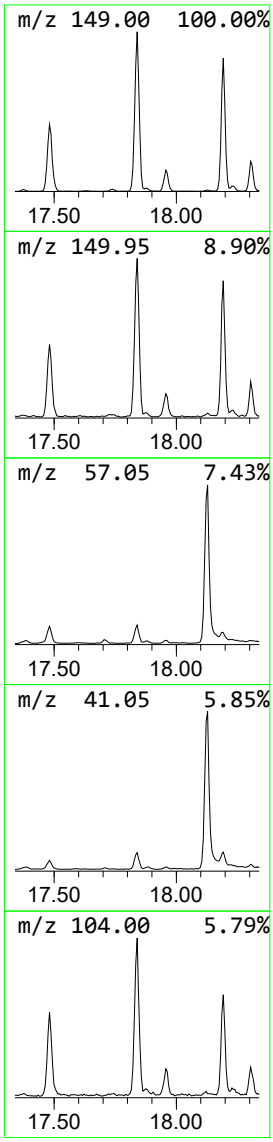
****
Peak Number 8 1,4-Dibutyl benzene-1,4-dic... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.839	4.48 ng	717564	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dibutyl benzene-1,4-dicarbox...	278	C16H22O4	001962-75-0	90
2	Dibutyl phthalate	278	C16H22O4	000084-74-2	90
3	Phthalic acid, hept-4-yl isobuty...	320	C19H28O4	1000356-78-3	83
4	Phthalic acid, cyclohexylmethyl ...	318	C19H26O4	1000309-08-6	83
5	1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	83





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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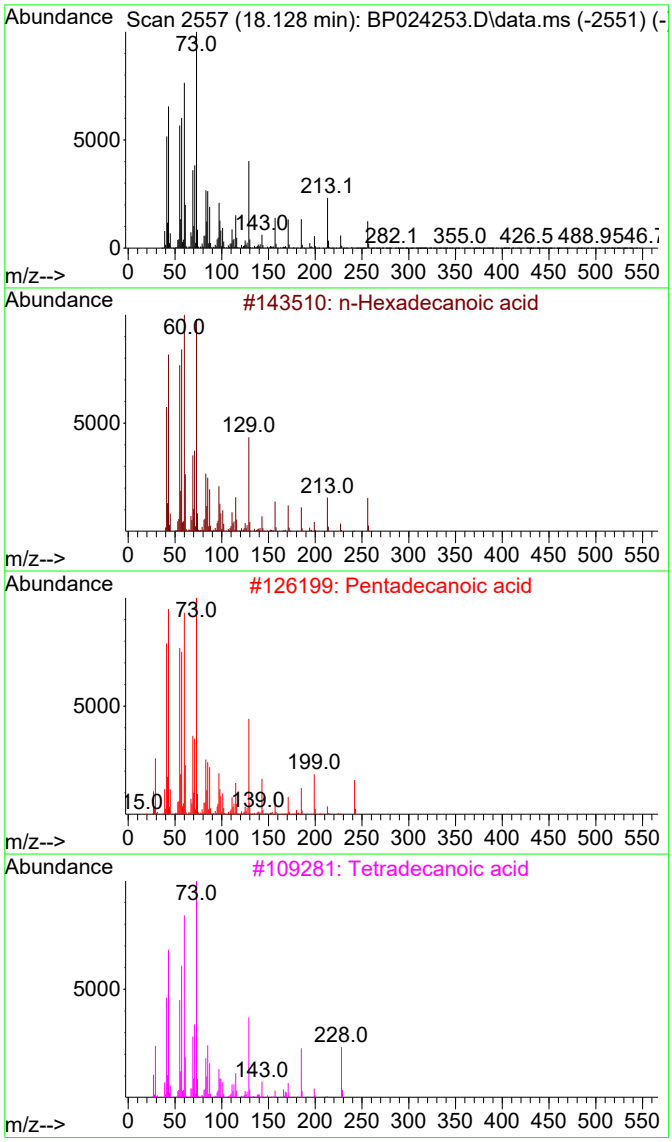
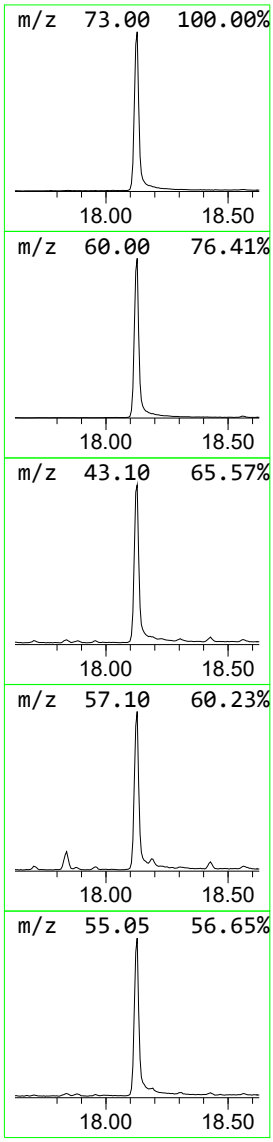
****

Peak Number 9 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.128	30.27 ng	4849310	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4	n-Decanoic acid	172	C10H20O2	000334-48-5	68
5	Tridecanoic acid	214	C13H26O2	000638-53-9	60





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

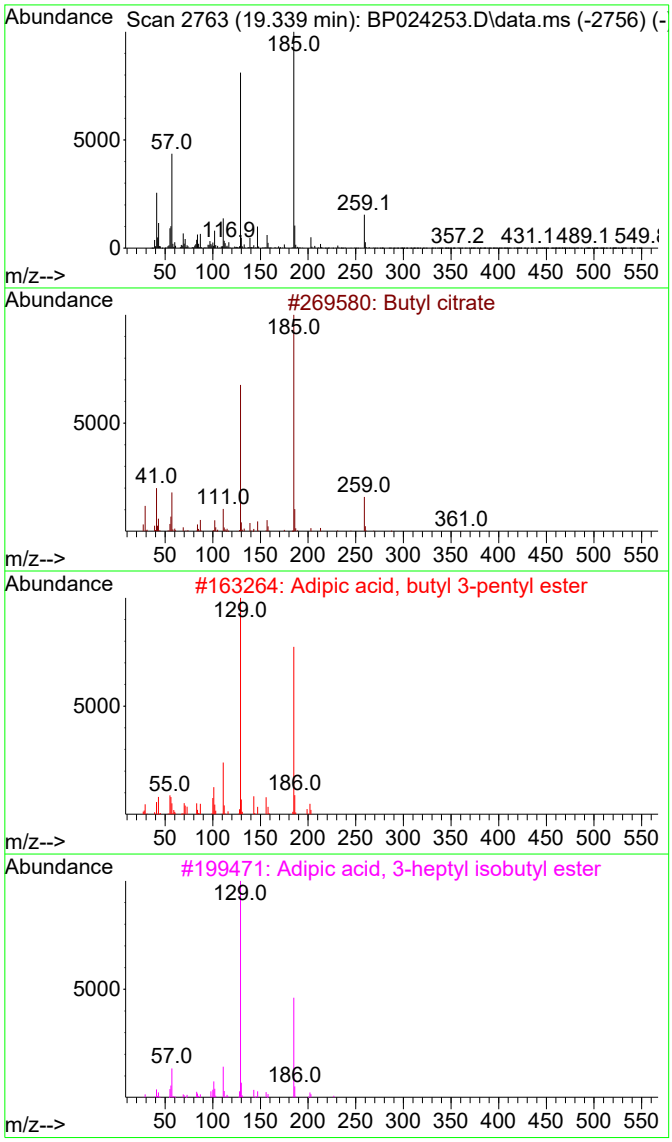
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

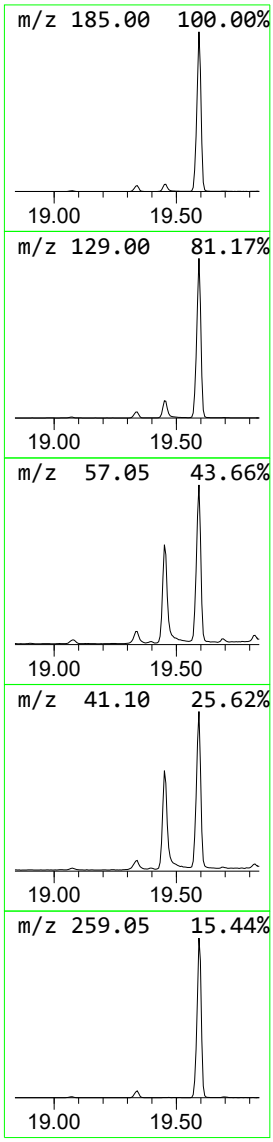
****

Peak Number 10 Butyl citrate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.339	5.61 ng	899305	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	91
2	Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	72
3	Adipic acid, 3-heptyl isobutyl e...	300	C17H32O4	1000353-64-8	72
4	Adipic acid, 4-heptyl isobutyl e...	300	C17H32O4	1000349-73-6	72
5	Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	72





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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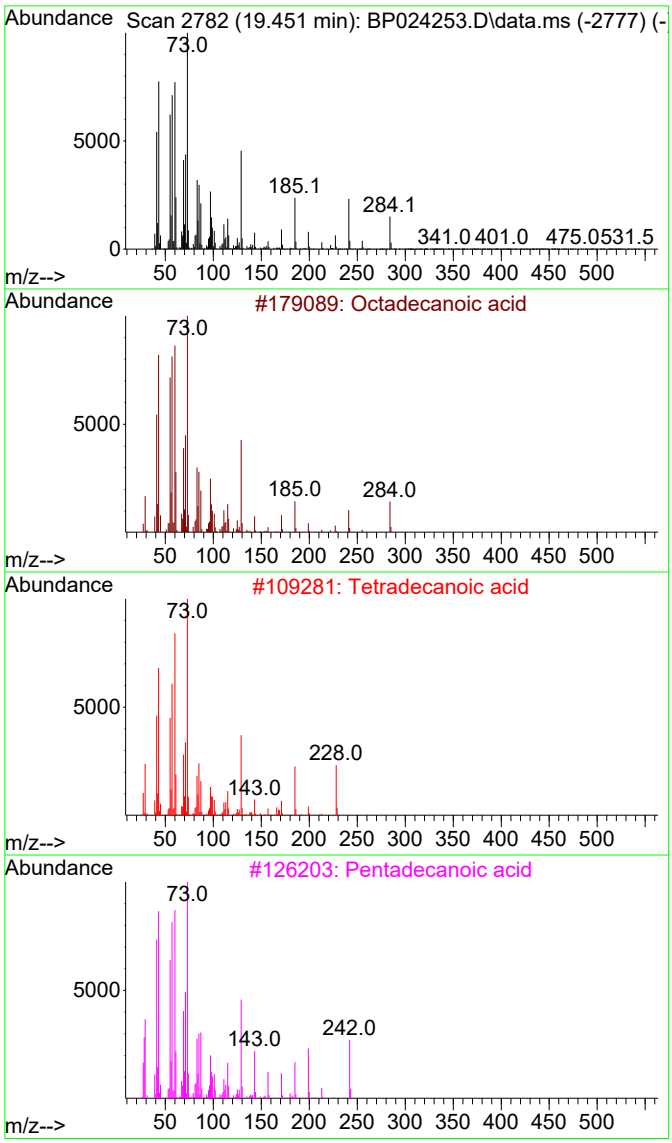
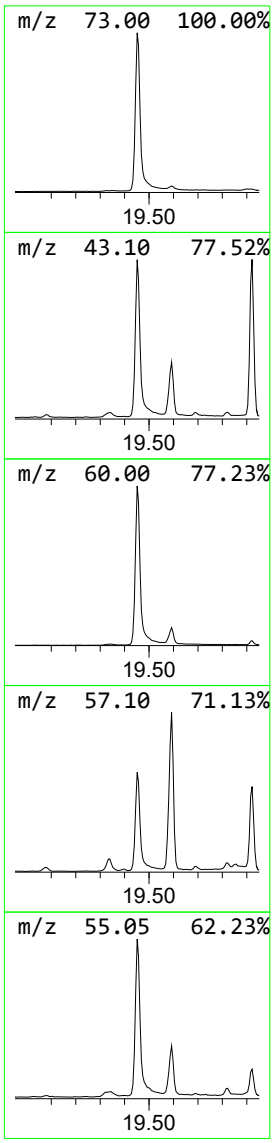
****

Peak Number 11 Octadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.451	49.98 ng	9229940	Chrysene-d12	21.622

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64





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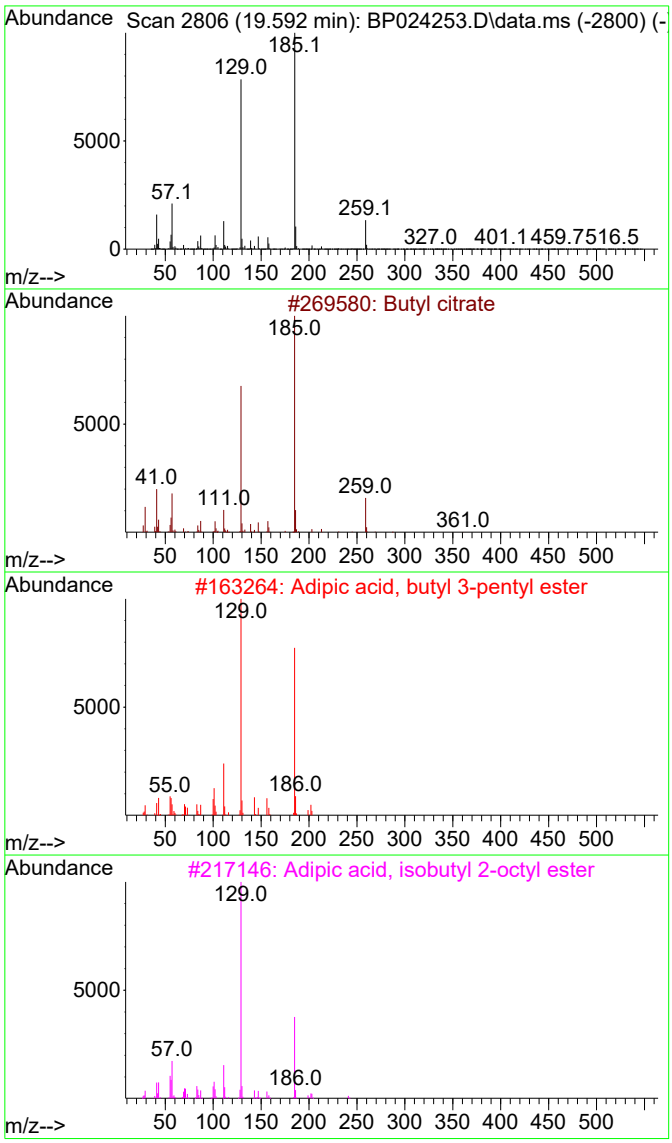
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

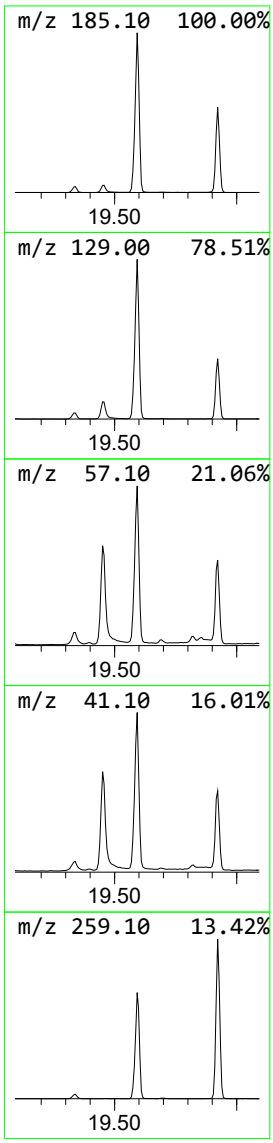
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Adipic acid, butyl 3-pentyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.592	67.41 ng	12449700	Chrysene-d12	21.622

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	94
2	Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	64
3	Adipic acid, isobutyl 2-octyl ester	314	C18H34O4	1000324-44-5	64
4	Adipic acid, isobutyl pent-4-en-...	270	C15H26O4	1000354-11-8	56
5	Adipic acid, cycloheptyl isobuty...	298	C17H30O4	1000324-71-5	56





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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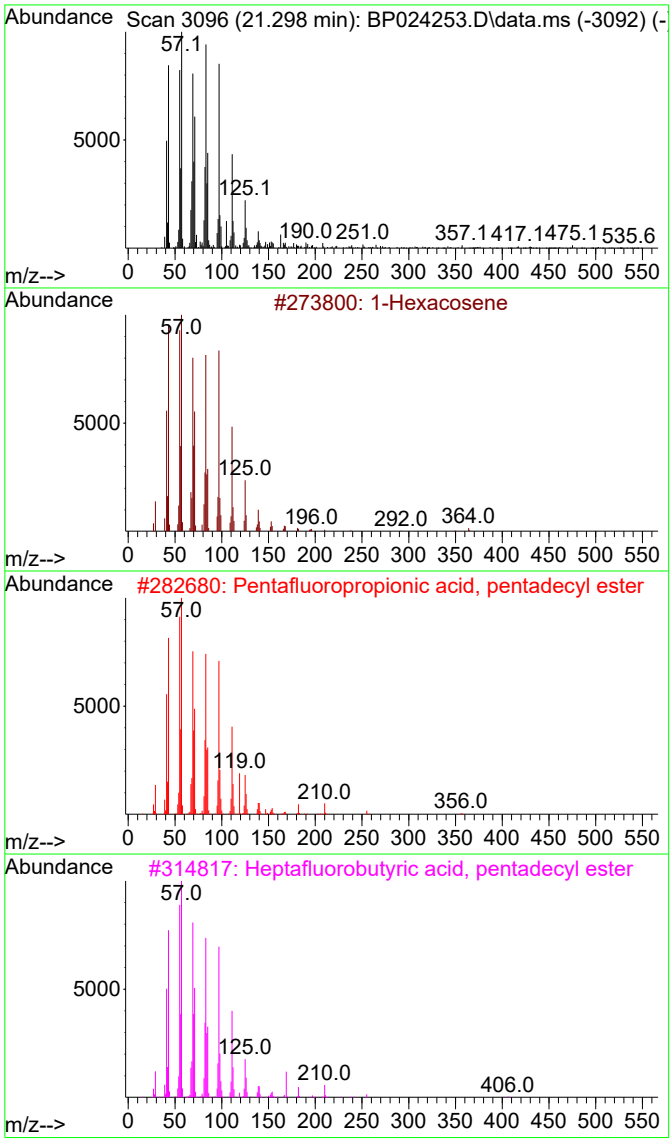
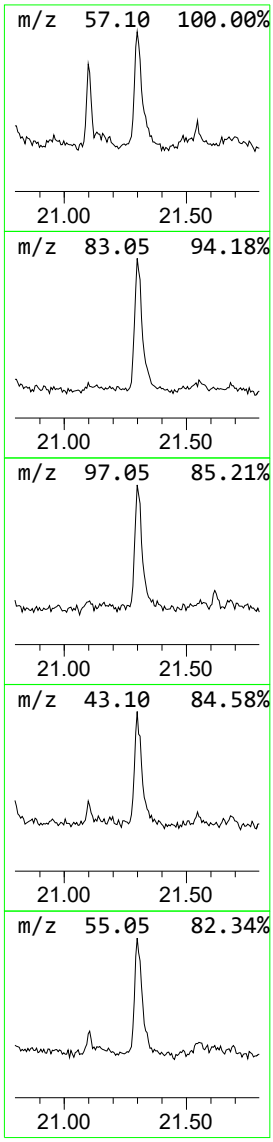
Peak Number 13 1-Hexacosene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.298	3.10 ng	572196	Chrysene-d12	21.622

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	94
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	91
3	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	91
4	Pentacos-1-ene	350	C25H50	016980-85-1	91
5	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	91





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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.899	4.7	ng	348645	1	7.740	1473420	20.0
Hexanoic acid, ...	9.069	30.2	ng	2225210	1	7.740	1473420	20.0
Ethanol, 2-(2-b...	10.299	8.6	ng	884774	2	10.516	2051180	20.0
Ethanol, 2-[2-(...	13.922	2.3	ng	303139	3	14.375	2686860	20.0
Pentanoic acid,...	15.193	5.5	ng	746146	3	14.375	2686860	20.0
Benzophenone	15.757	3.5	ng	470488	3	14.375	2686860	20.0
1,2-Benzenedica...	17.481	2.4	ng	386521	4	17.175	3203940	20.0
1,4-Dibutyl ben...	17.839	4.5	ng	717564	4	17.175	3203940	20.0
n-Hexadecanoic ...	18.128	30.3	ng	4849310	4	17.175	3203940	20.0
Butyl citrate	19.339	5.6	ng	899305	4	17.175	3203940	20.0
Octadecanoic acid	19.451	50.0	ng	9229940	5	21.622	3693700	20.0
Adipic acid, bu...	19.592	67.4	ng	12449700	5	21.622	3693700	20.0
1-Hexacosene	21.298	3.1	ng	572196	5	21.622	3693700	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Quant Time: Apr 09 18:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 05:55:58 2025
Response via : Initial Calibration

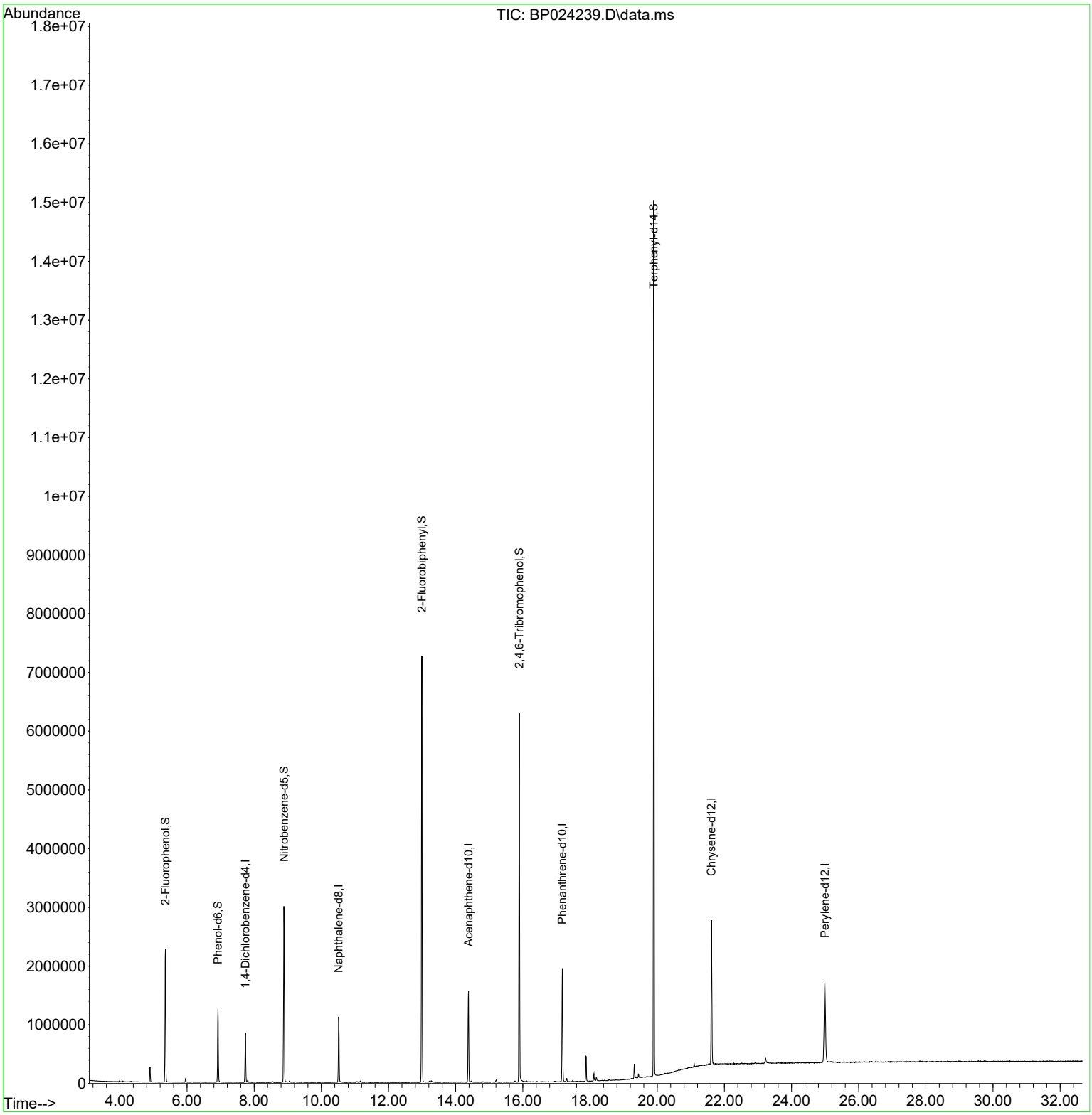
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	235704	20.000	ng	-0.03
21) Naphthalene-d8	10.516	136	911036	20.000	ng	-0.04
39) Acenaphthene-d10	14.381	164	559100	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1174144	20.000	ng	-0.03
76) Chrysene-d12	21.616	240	1378627	20.000	ng	-0.04
86) Perylene-d12	24.992	264	1470675	20.000	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	1007759	68.250	ng	-0.02
7) Phenol-d6	6.922	99	762285	38.605	ng	-0.03
23) Nitrobenzene-d5	8.887	82	1695704	105.016	ng	-0.04
42) 2,4,6-Tribromophenol	15.892	330	1210524	171.887	ng	-0.02
45) 2-Fluorobiphenyl	12.993	172	3503535	92.399	ng	-0.02
79) Terphenyl-d14	19.898	244	6947270	104.022	ng	-0.02
Target Compounds						Qvalue

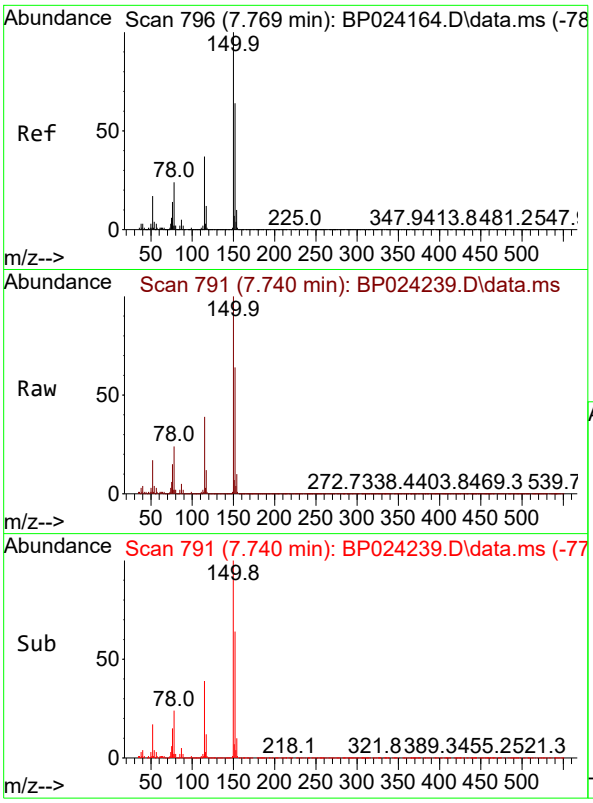
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Quant Time: Apr 09 18:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 05:55:58 2025
Response via : Initial Calibration



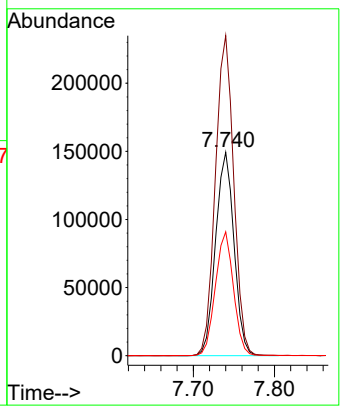


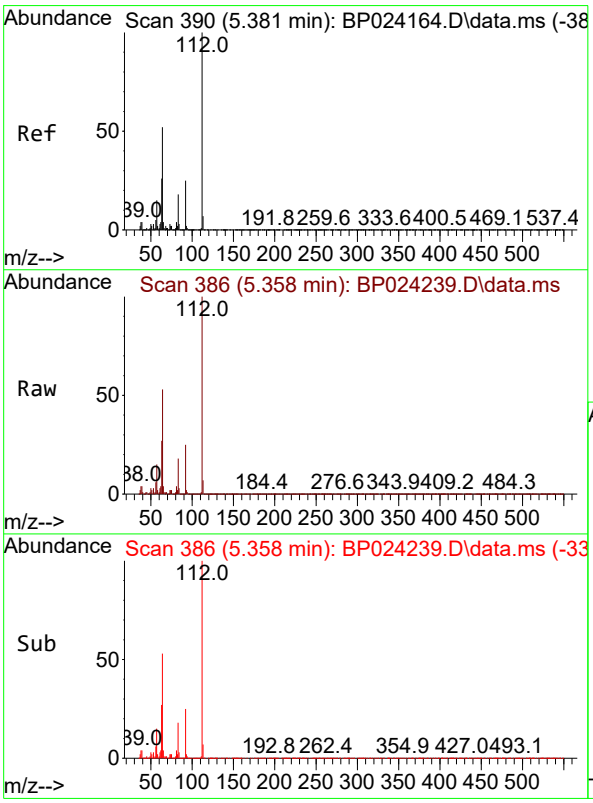
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.029 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Tgt Ion:152 Resp: 235704

Ion	Ratio	Lower	Upper
152	100		
150	157.4	125.5	188.3
115	60.9	46.3	69.5

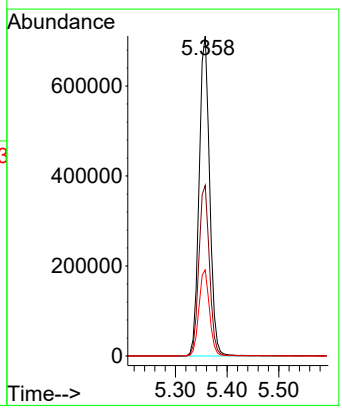


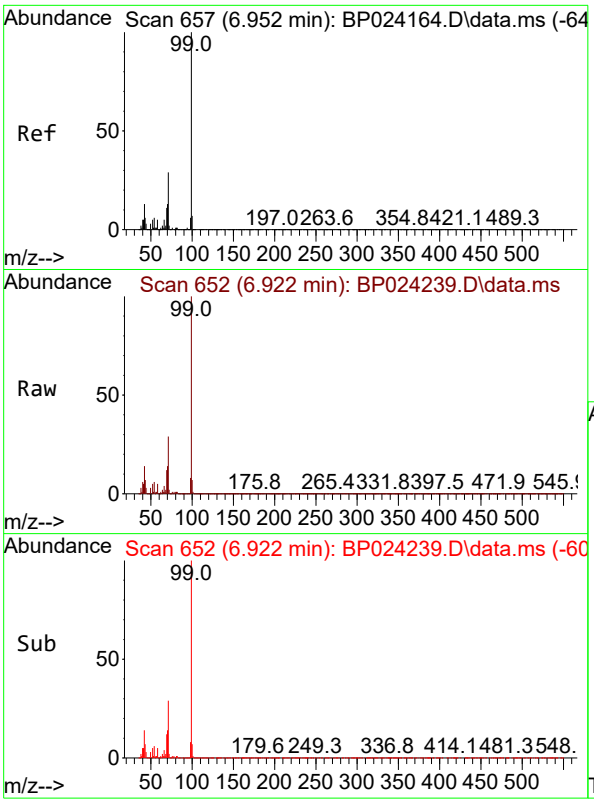


#5
2-Fluorophenol
Concen: 68.250 ng
RT: 5.358 min Scan# 386
Delta R.T. -0.024 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Tgt Ion:112 Resp: 1007759

Ion	Ratio	Lower	Upper
112	100		
64	53.3	41.3	61.9
63	26.9	20.6	31.0



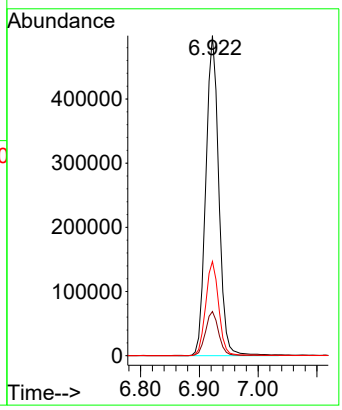


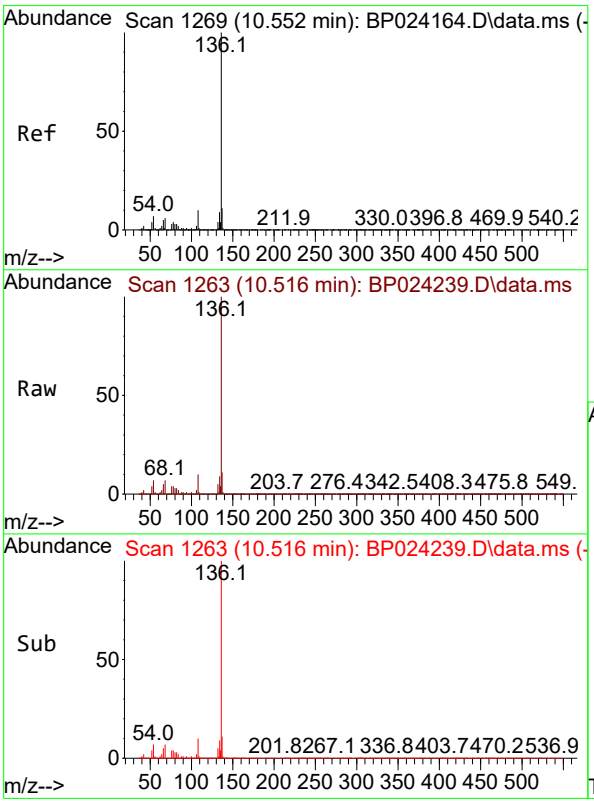
#7
Phenol-d6
Concen: 38.605 ng
RT: 6.922 min Scan# 6
Delta R.T. -0.030 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Tgt Ion: 99 Resp: 762285

Ion	Ratio	Lower	Upper
99	100		
42	13.8	10.6	16.0
71	29.4	23.3	34.9

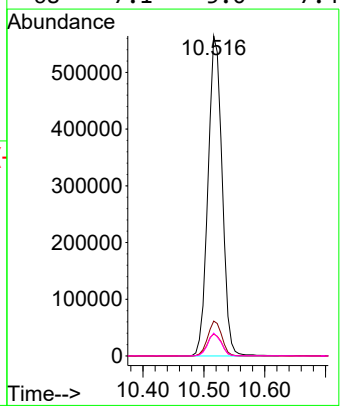


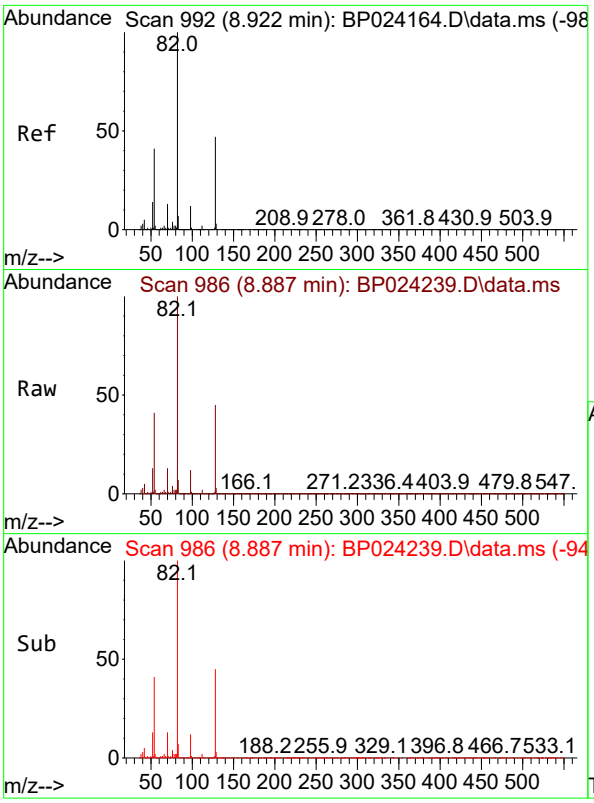


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.035 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Tgt Ion:136 Resp: 911036

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.8	5.3	7.9
68	7.1	5.0	7.4



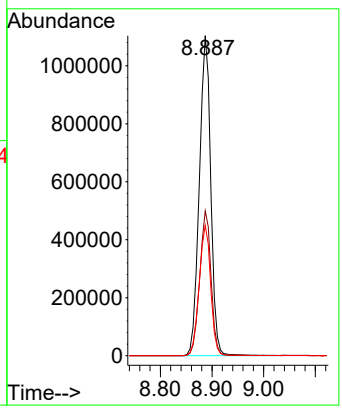


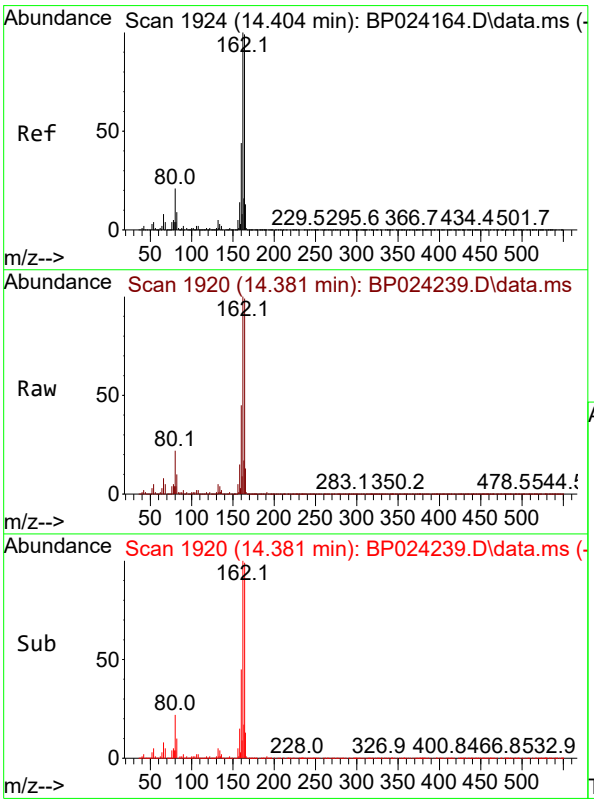
#23
Nitrobenzene-d5
Concen: 105.016 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.035 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Tgt Ion: 82 Resp: 1695704

Ion	Ratio	Lower	Upper
82	100		
128	45.3	37.4	56.0
54	40.8	32.5	48.7

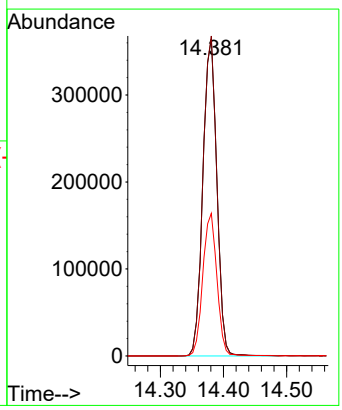


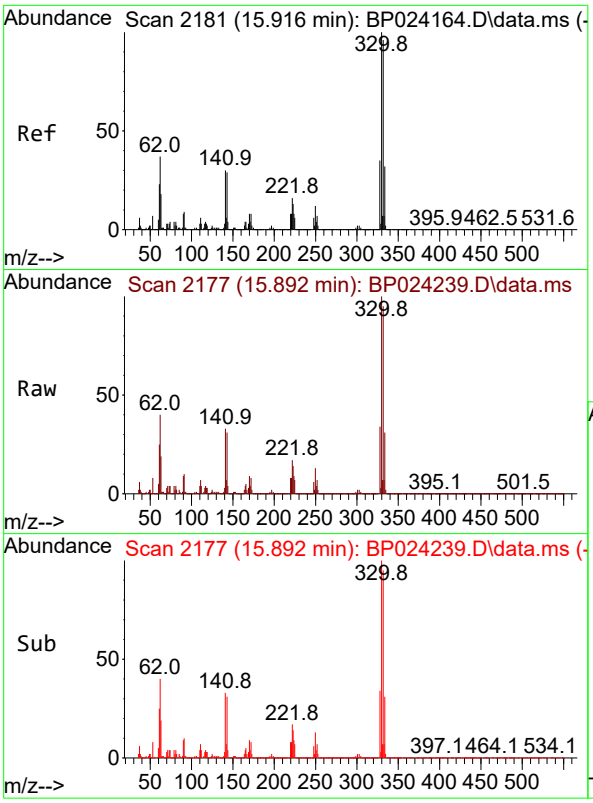


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.381 min Scan# 1920
Delta R.T. -0.024 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Tgt Ion:164 Resp: 559100

Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.6	121.0
160	45.0	35.4	53.2



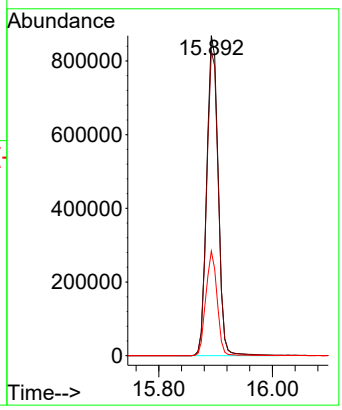


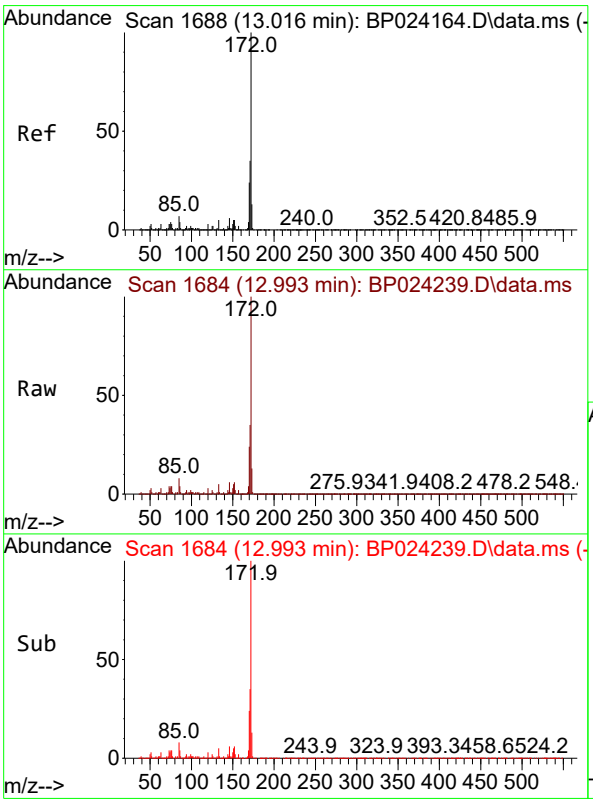
#42
2,4,6-Tribromophenol
Concen: 171.887 ng
RT: 15.892 min Scan# 2
Delta R.T. -0.024 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Tgt Ion:330 Resp: 1210524

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	32.2	25.0	37.6

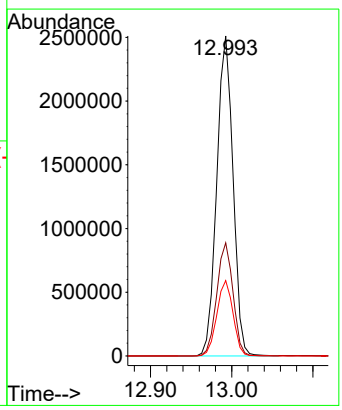


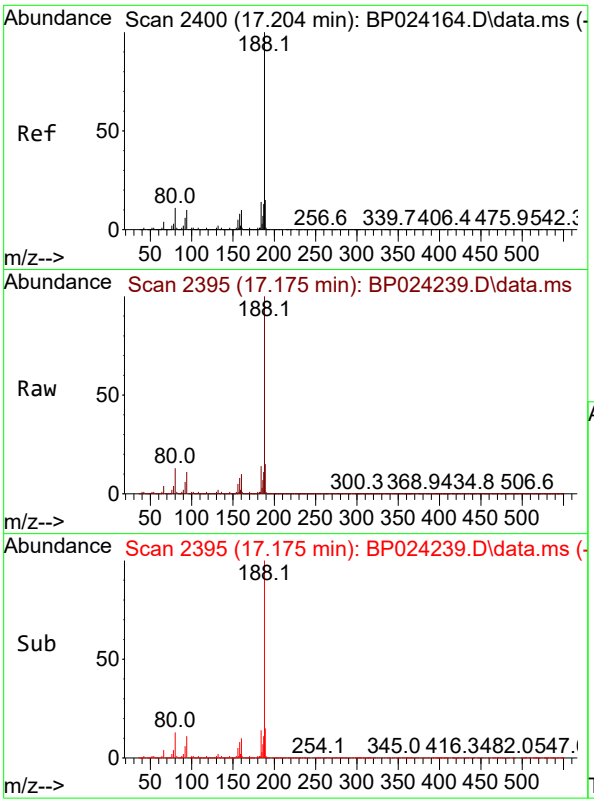


#45
2-Fluorobiphenyl
Concen: 92.399 ng
RT: 12.993 min Scan# 1684
Delta R.T. -0.024 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Tgt Ion:172 Resp: 3503535

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.6	19.0	28.4



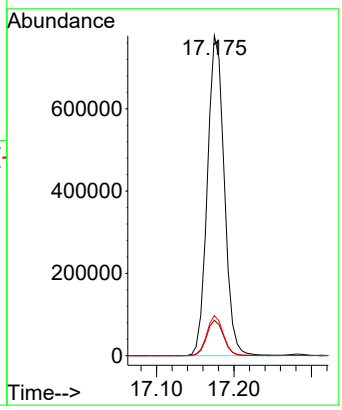


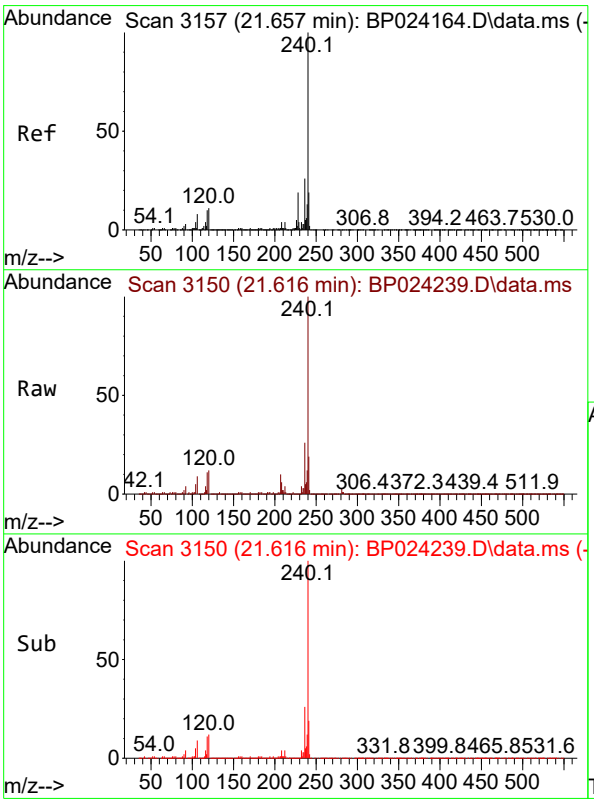
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.175 min Scan# 2
Delta R.T. -0.030 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Tgt Ion:188 Resp: 1174144

Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.1	12.1
80	12.6	8.9	13.3

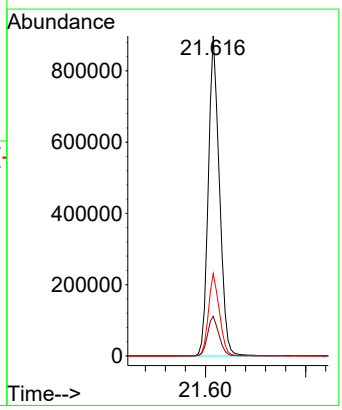


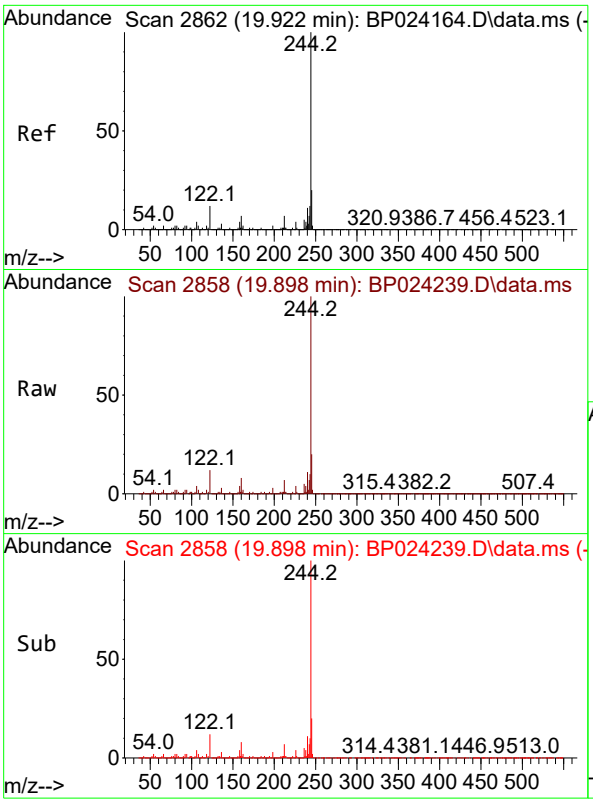


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.616 min Scan# 3150
Delta R.T. -0.041 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Tgt Ion:240 Resp: 1378627

Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.2	13.8
236	25.8	20.4	30.6



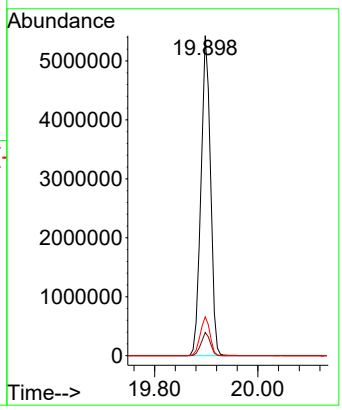


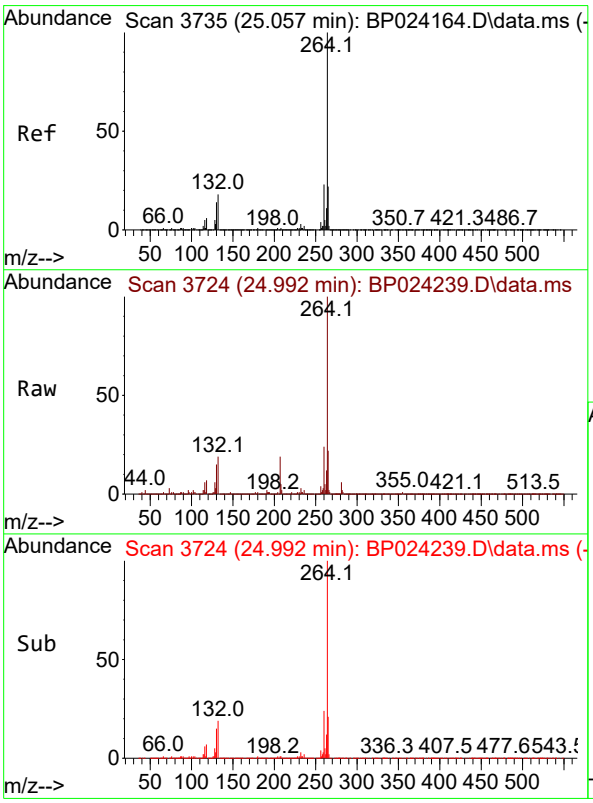
#79
Terphenyl-d14
Concen: 104.022 ng
RT: 19.898 min Scan# 2
Delta R.T. -0.024 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Tgt Ion:244 Resp: 6947270

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.7	8.5
122	12.1	9.6	14.4

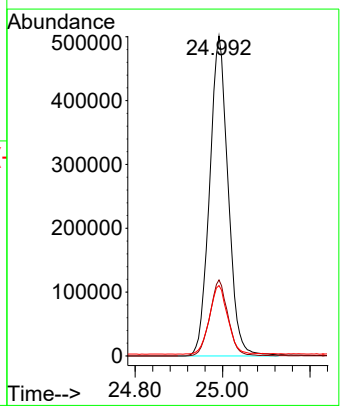




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.992 min Scan# 3724
Delta R.T. -0.065 min
Lab File: BP024239.D
Acq: 09 Apr 2025 17:41

Tgt Ion:264 Resp: 1470675

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.5	27.7
265	22.0	17.7	26.5



Sample Results: **BP024239.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024239.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.899	302	308	318	rBV	256976	352636	1.85%	0.539%
2	5.358	379	386	402	rVB	2257672	3201655	16.77%	4.891%
3	6.922	643	652	664	rBV	1254661	1942775	10.18%	2.968%
4	7.740	782	791	798	rBV	846439	1341031	7.03%	2.049%
5	8.887	979	986	999	rBV	2996158	4610863	24.16%	7.043%
6	10.516	1256	1263	1271	rBV	1117604	1804065	9.45%	2.756%
7	12.993	1676	1684	1695	rBV	7257286	10153429	53.20%	15.510%
8	14.381	1910	1920	1930	rBV	1559647	2425654	12.71%	3.705%
9	15.892	2170	2177	2196	rBV	6293738	8876721	46.51%	13.560%
10	17.175	2387	2395	2407	rBV2	1927931	2955079	15.48%	4.514%
11	17.880	2509	2515	2525	rVB2	426490	595523	3.12%	0.910%
12	19.316	2755	2759	2769	rBV	245186	362638	1.90%	0.554%
13	19.898	2852	2858	2868	rBV	14913362	19086203	100.00%	29.156%
14	21.616	3144	3150	3162	rBV	2457177	3849444	20.17%	5.880%
15	24.992	3715	3724	3739	rVB	1357336	3905058	20.46%	5.965%

Sum of corrected areas: 65462774

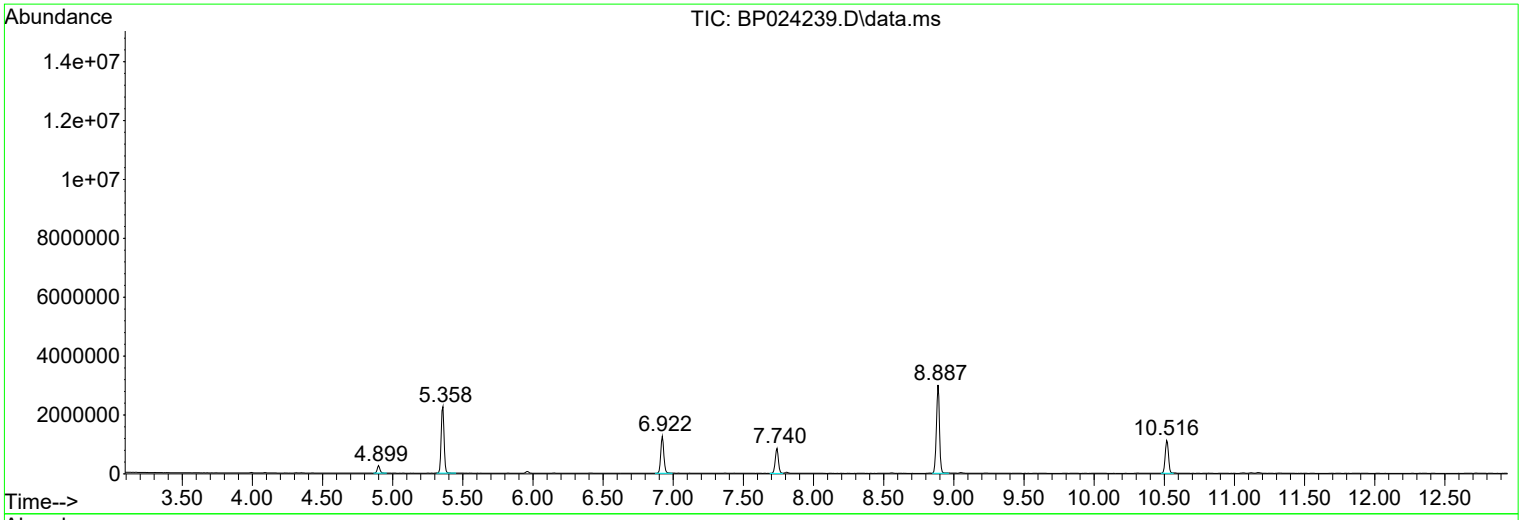
Sample Results: **BP024239.D**

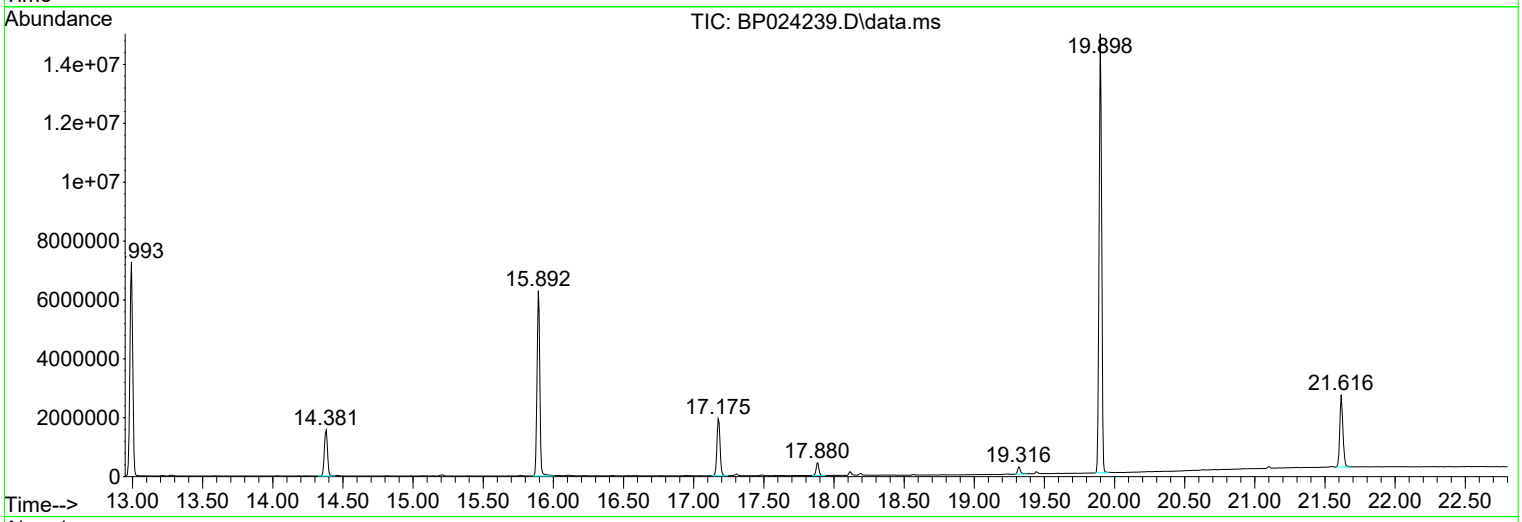
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

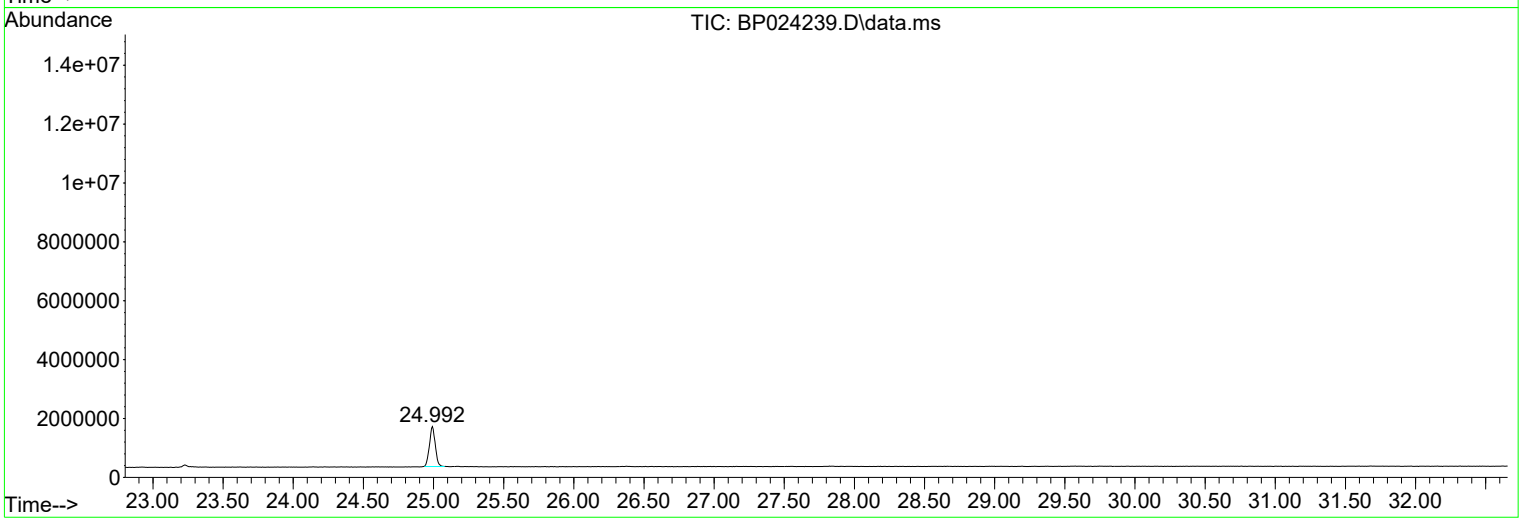
Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

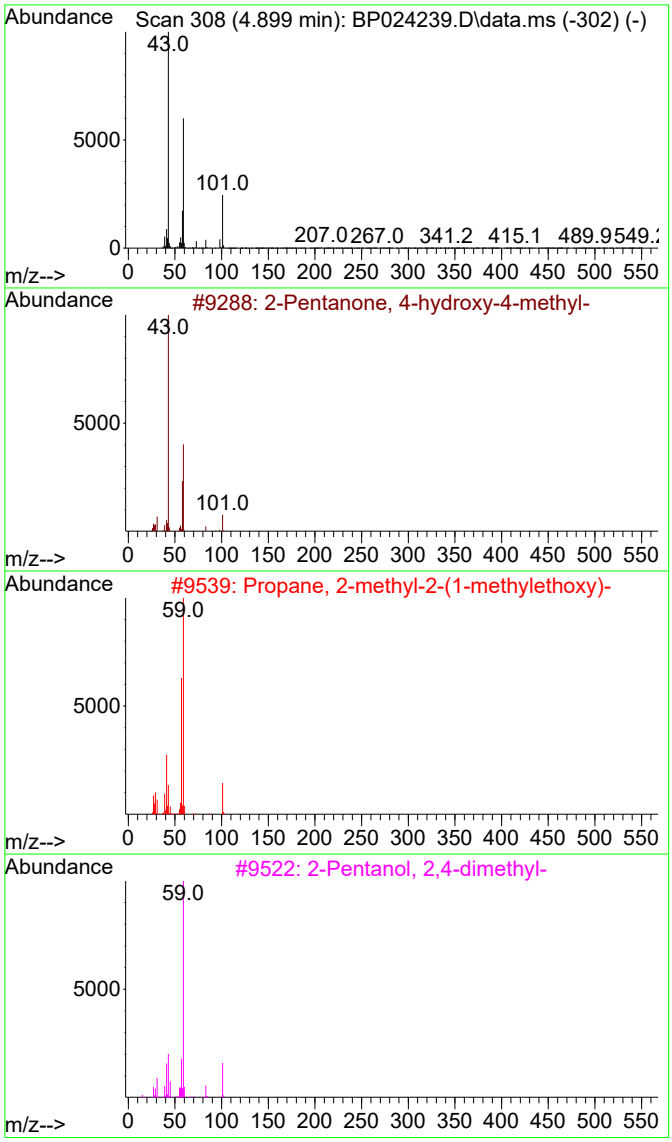
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

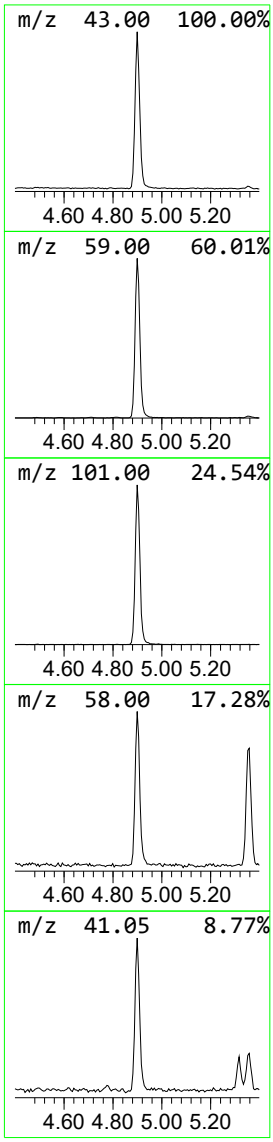
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.899	5.26 ng	352636	1,4-Dichlorobenzene-d4	7.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	50
3	2-Pentanol, 2,4-dimethyl-	116	C7H16O	000625-06-9	25
4	Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	25
5	Methyl 2-(2-(2-methoxyethoxy)eth...	192	C8H16O5	1000366-88-2	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

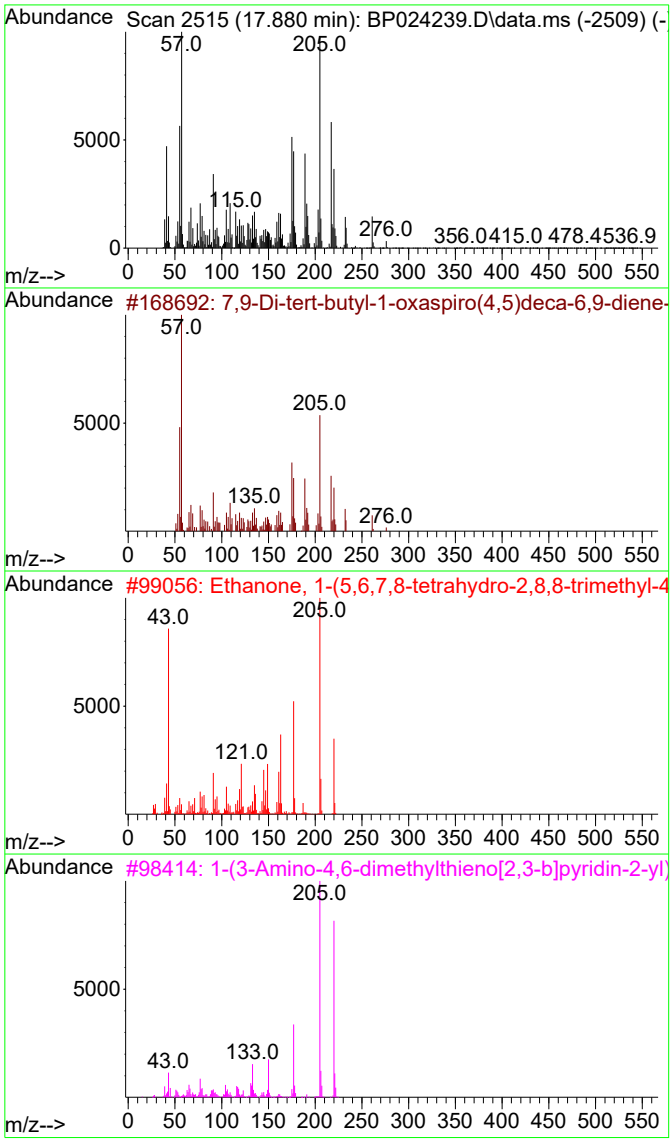
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

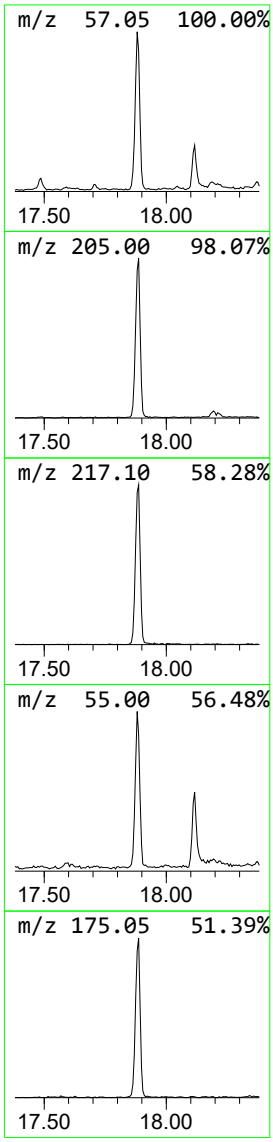
****

Peak Number 2 7,9-Di-tert-butyl-1-oxaspir... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.881	4.03 ng	595523	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,9-Di-tert-butyl-1-oxaspiro(4,5...	276	C17H24O3	082304-66-3	99
2	Ethanone, 1-(5,6,7,8-tetrahydro-...	220	C14H20O2	071596-88-8	64
3	1-(3-Amino-4,6-dimethylthieno[2,...	220	C11H12N2OS	052505-42-7	50
4	2,5-Cyclohexadien-1-one, 2,6-bis...	232	C16H24O	006738-27-8	42
5	2,4-Diamino-6-nitroquinazoline	205	C8H7N5O2	007154-34-9	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040925\
Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

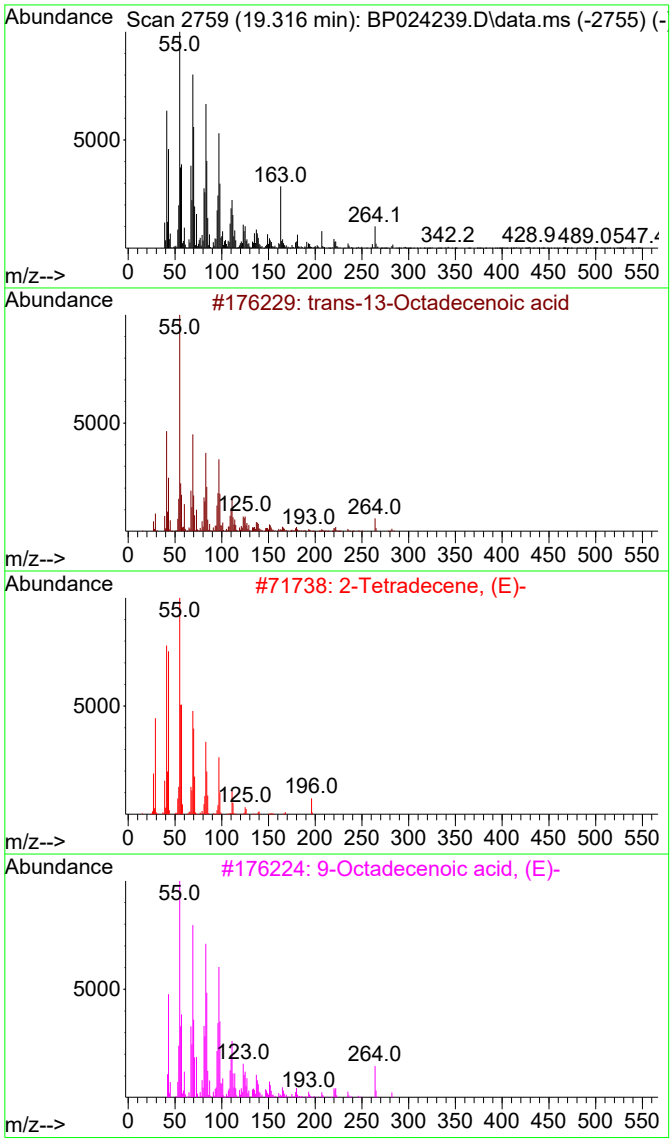
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

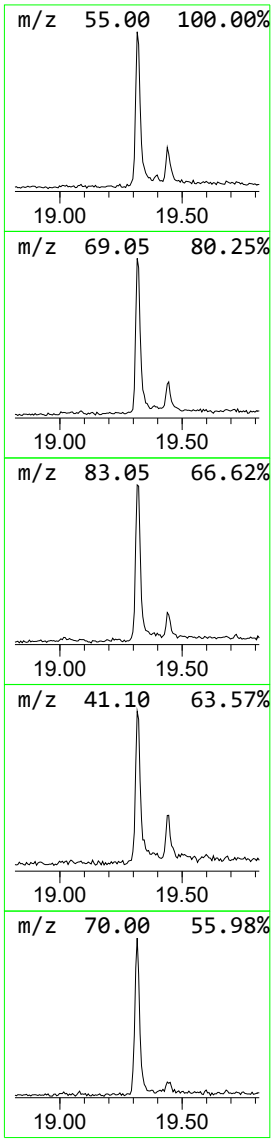
****

Peak Number 3 trans-13-Octadecenoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.316	2.45 ng	362638	Phenanthrene-d10	17.175

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	95
2	2-Tetradecene, (E)-	196	C14H28	035953-54-9	90
3	9-Octadecenoic acid, (E)-	282	C18H34O2	000112-79-8	90
4	Oleic Acid	282	C18H34O2	000112-80-1	86
5	2-Butenedioic acid (Z)-, monodod...	284	C16H28O4	002424-61-5	83





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Data File : BP024239.D
Acq On : 09 Apr 2025 17:41
Operator : RC/JU
Sample : Q1746-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
EB-2025-4-7

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.899	5.3	ng	352636	1	7.740	1341030	20.0
7,9-Di-tert-but...	17.881	4.0	ng	595523	4	17.175	2955080	20.0
trans-13-Octade...	19.316	2.5	ng	362638	4	17.175	2955080	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Time: Apr 10 11:29:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

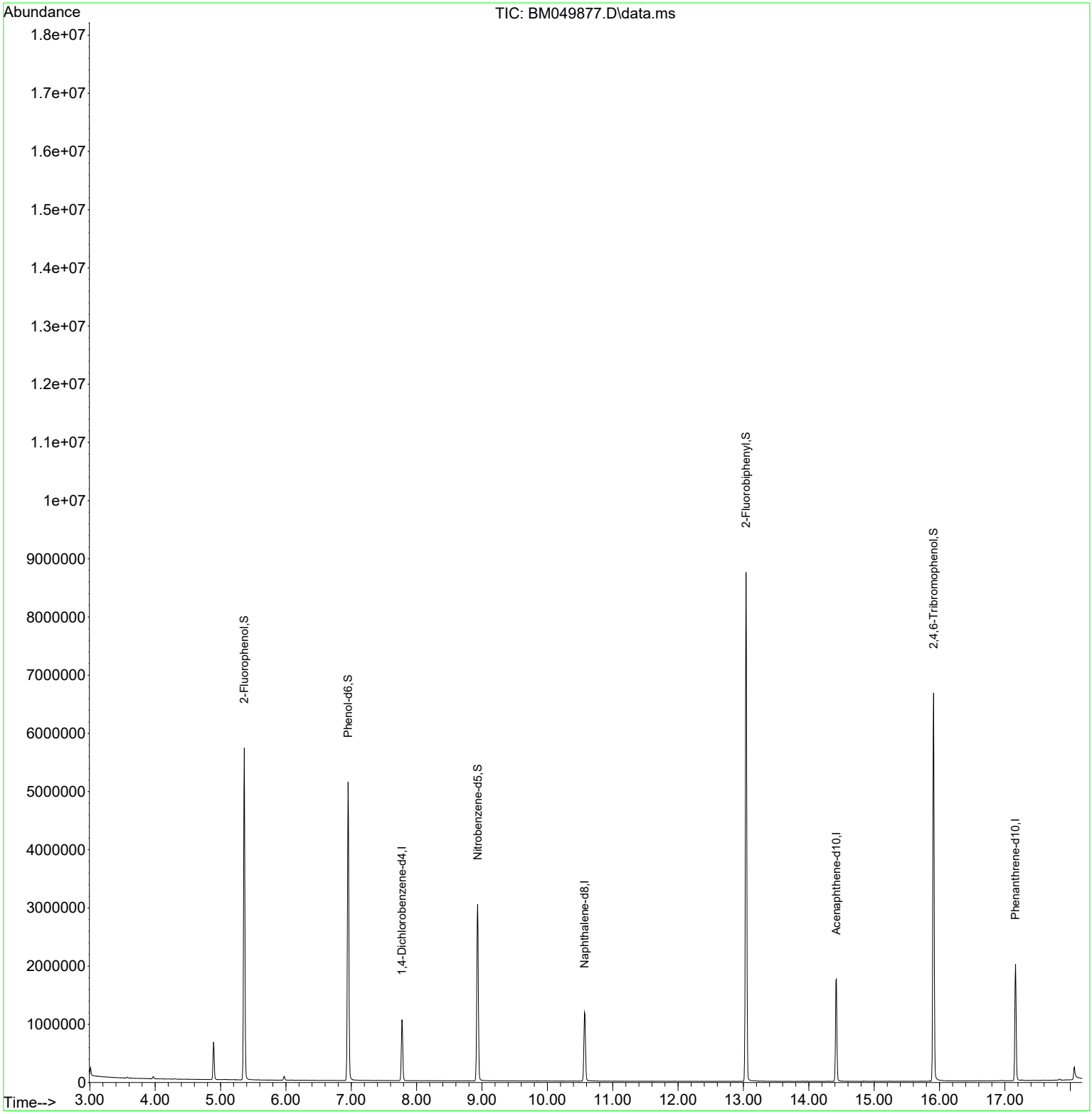
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	304918	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1031962	20.000	ng	0.00
39) Acenaphthene-d10	14.421	164	649646	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	1225291	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1173504	20.000	ng	0.00
86) Perylene-d12	24.397	264	1306478	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	2483463	138.303	ng	0.00
7) Phenol-d6	6.951	99	2987822	133.735	ng	0.00
23) Nitrobenzene-d5	8.933	82	1768989	95.456	ng	0.00
42) 2,4,6-Tribromophenol	15.909	330	1378609	145.895	ng	0.00
45) 2-Fluorobiphenyl	13.039	172	4613403	96.296	ng	0.00
79) Terphenyl-d14	19.786	244	7034521	112.339	ng	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

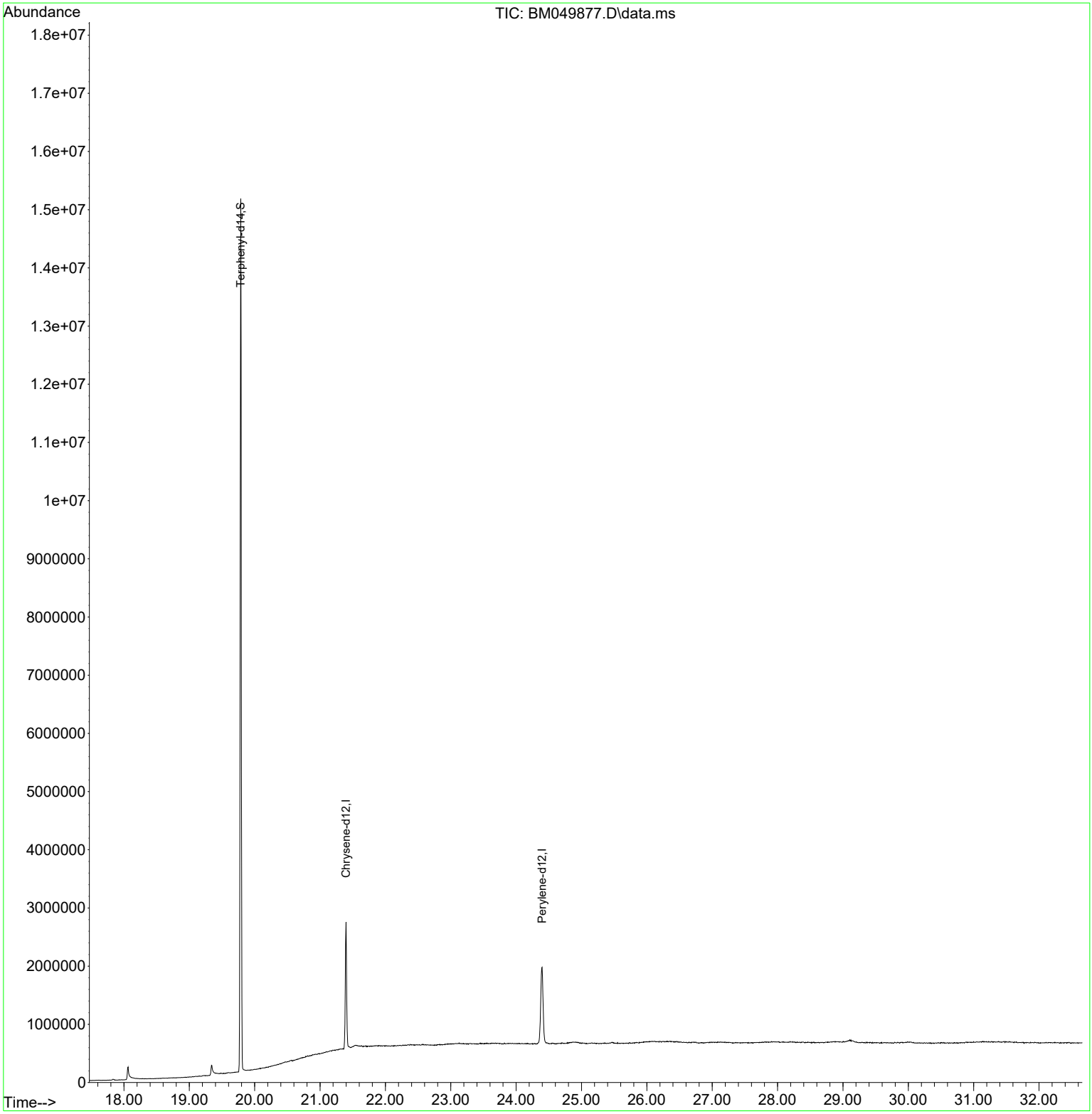
Quant Time: Apr 10 11:29:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

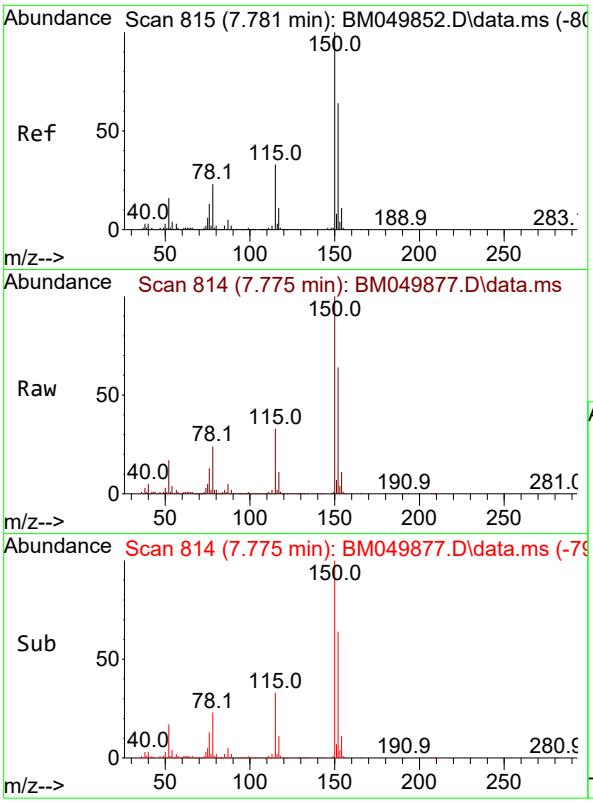


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Time: Apr 10 11:29:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



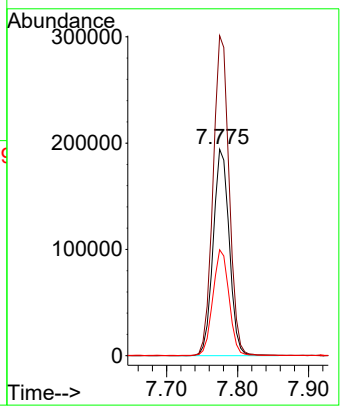


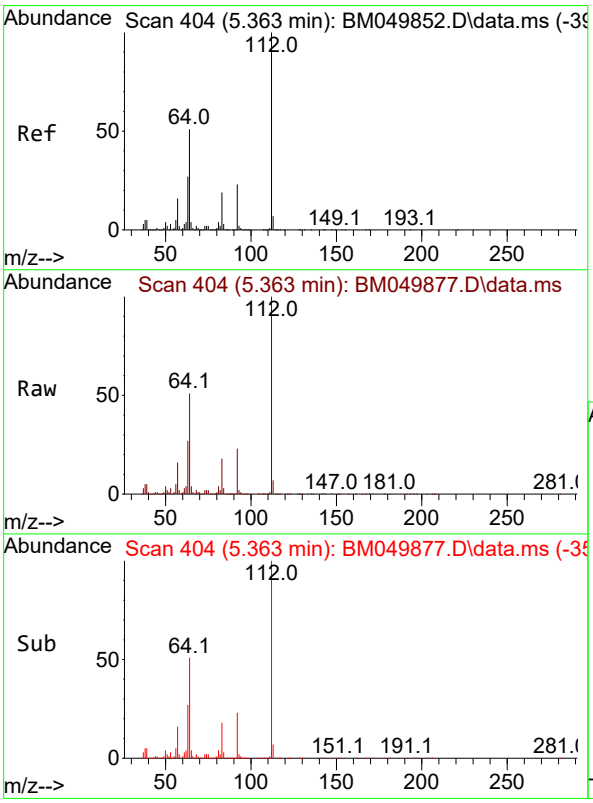
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:152 Resp: 304918

Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.3	186.5
115	51.3	41.1	61.7

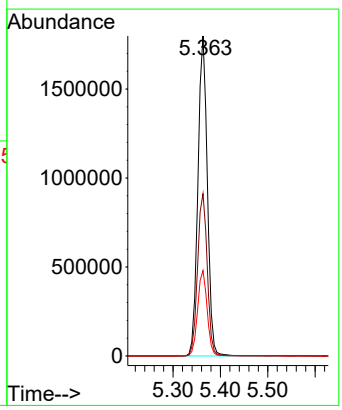


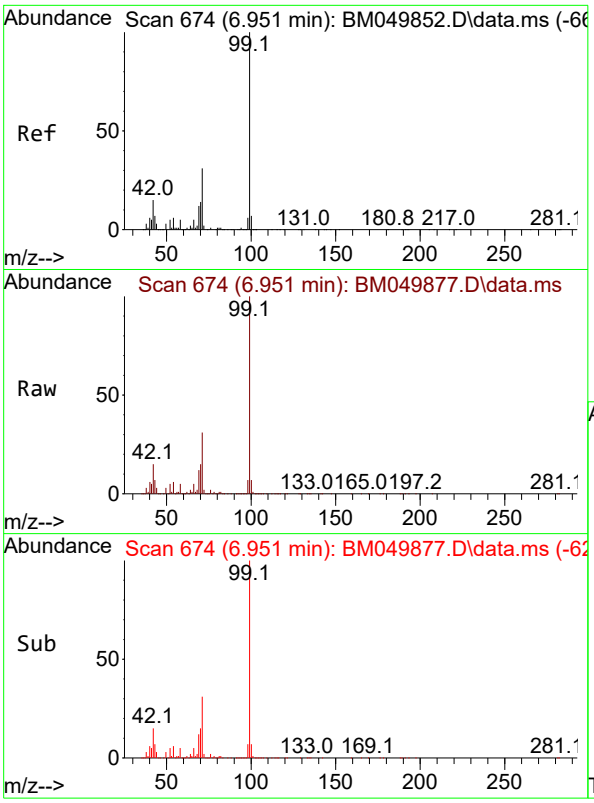


#5
2-Fluorophenol
Concen: 138.303 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:112 Resp: 2483463

Ion	Ratio	Lower	Upper
112	100		
64	50.7	41.0	61.6
63	26.7	21.5	32.3



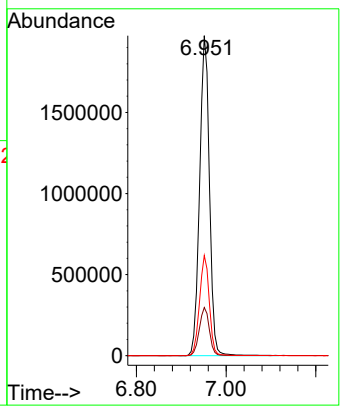


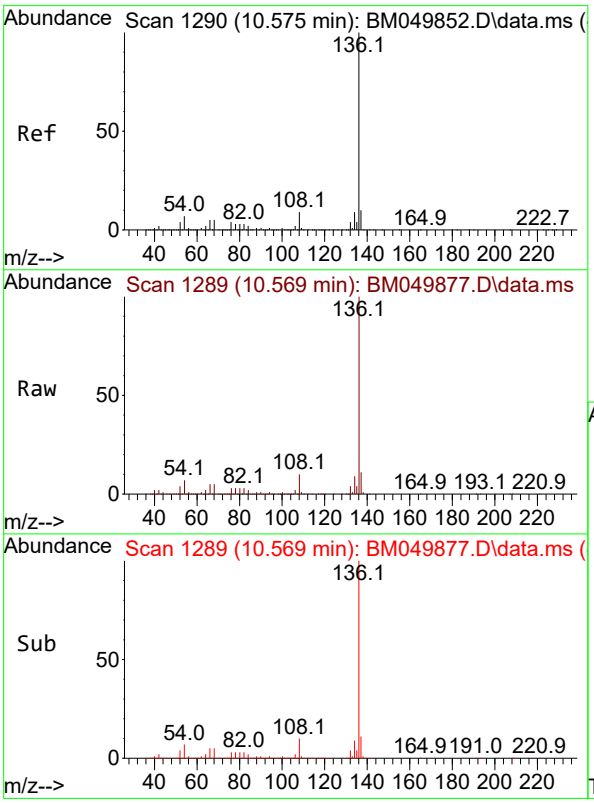
#7
Phenol-d6
Concen: 133.735 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion: 99 Resp: 2987822

Ion	Ratio	Lower	Upper
99	100		
42	15.0	12.1	18.1
71	31.3	24.9	37.3

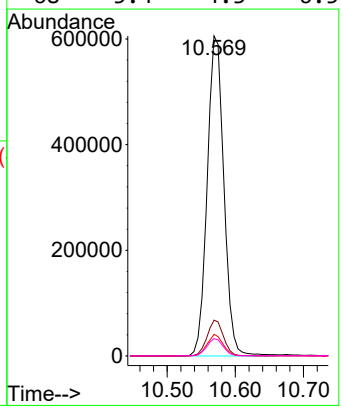


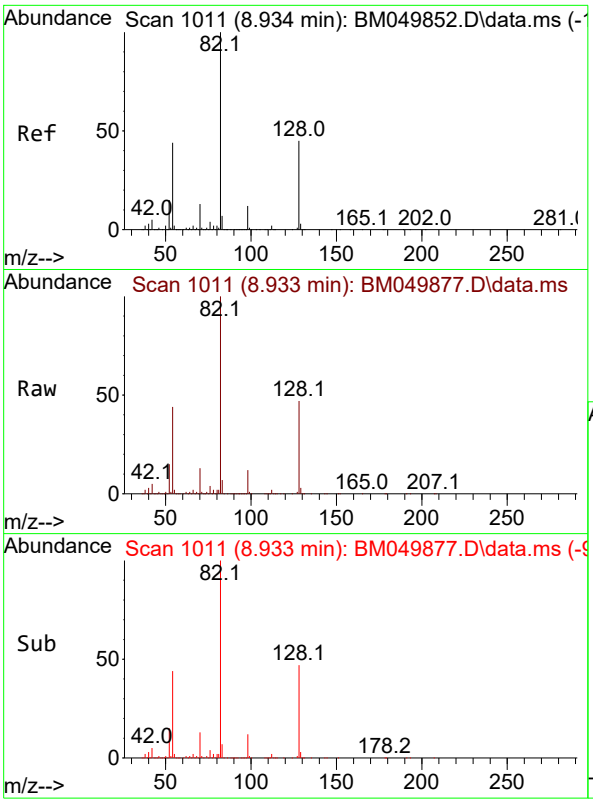


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:136 Resp: 1031962

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.4	12.6
54	6.8	5.3	7.9
68	5.4	4.3	6.5



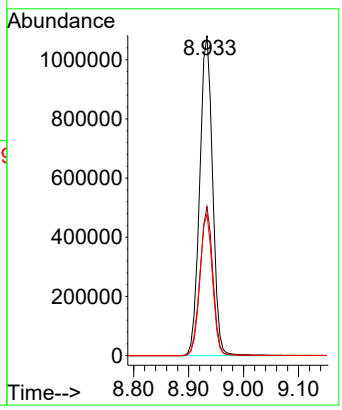


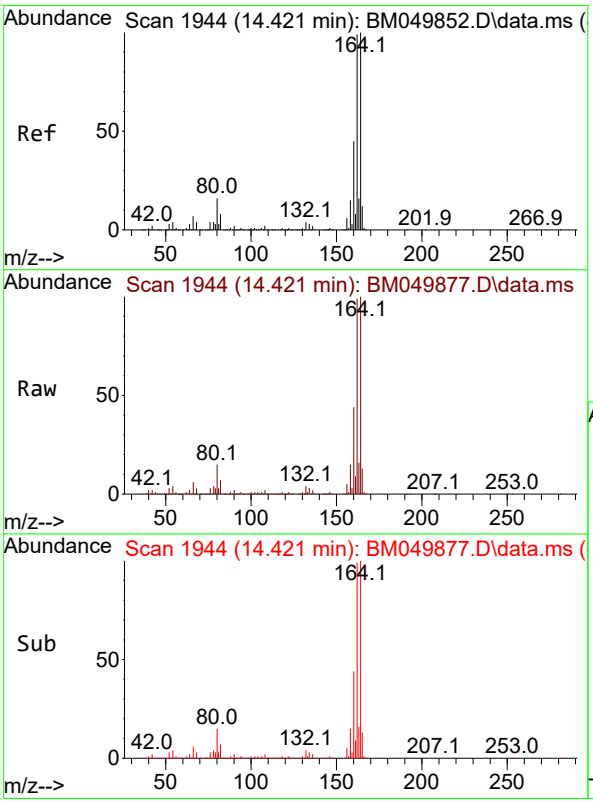
#23
Nitrobenzene-d5
Concen: 95.456 ng
RT: 8.933 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion: 82 Resp: 1768989

Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.2	54.2
54	44.1	35.0	52.6

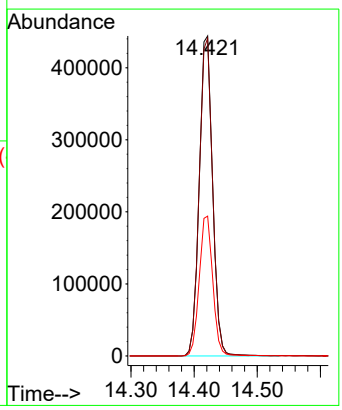


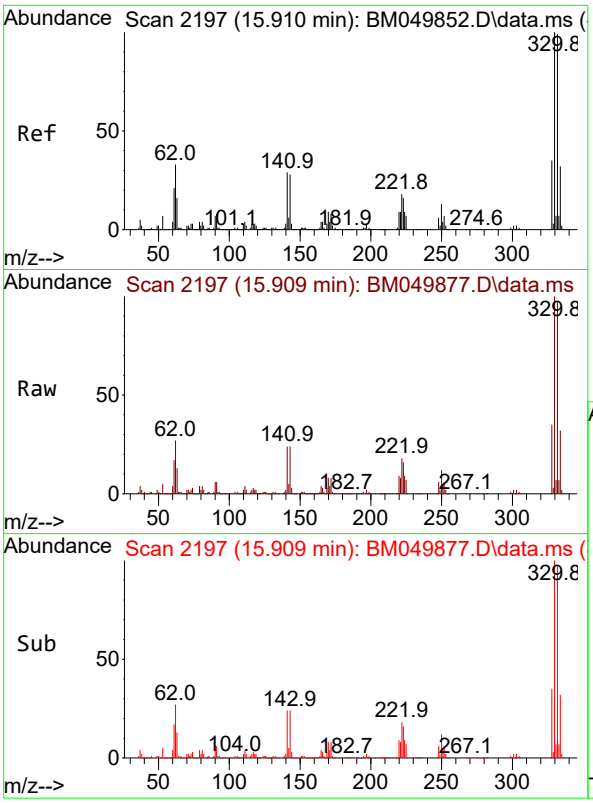


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.421 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:164 Resp: 649646

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.4	119.0
160	43.7	36.2	54.2



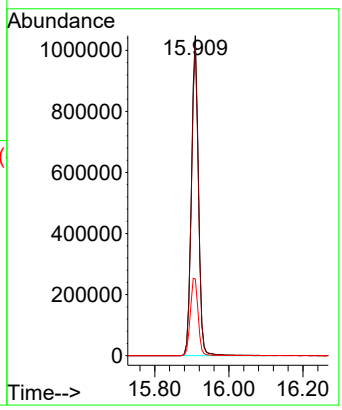


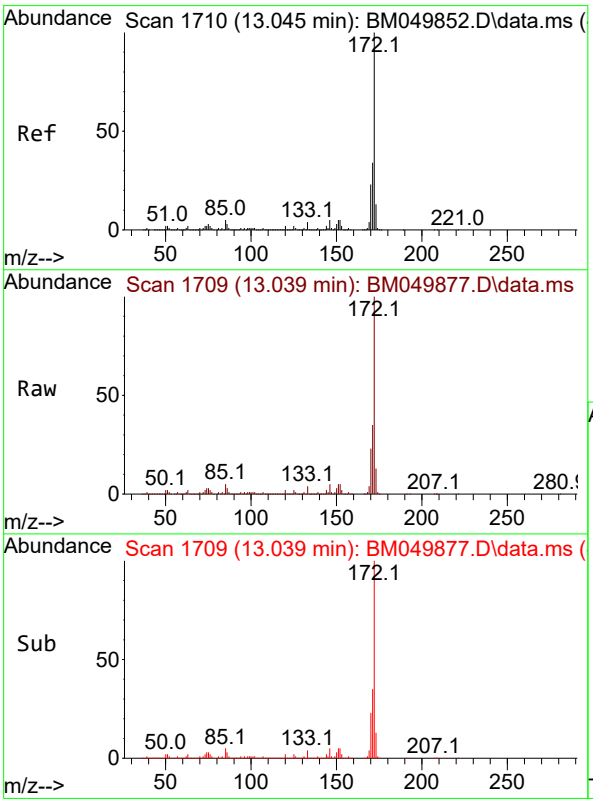
#42
2,4,6-Tribromophenol
Concen: 145.895 ng
RT: 15.909 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:330 Resp: 1378609

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.0	117.0
141	26.6	23.5	35.3

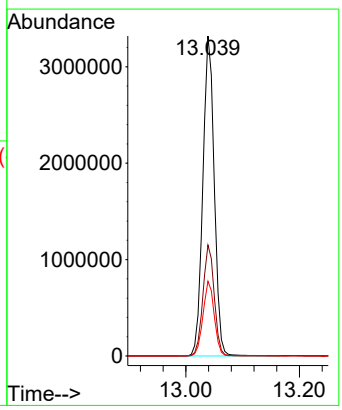


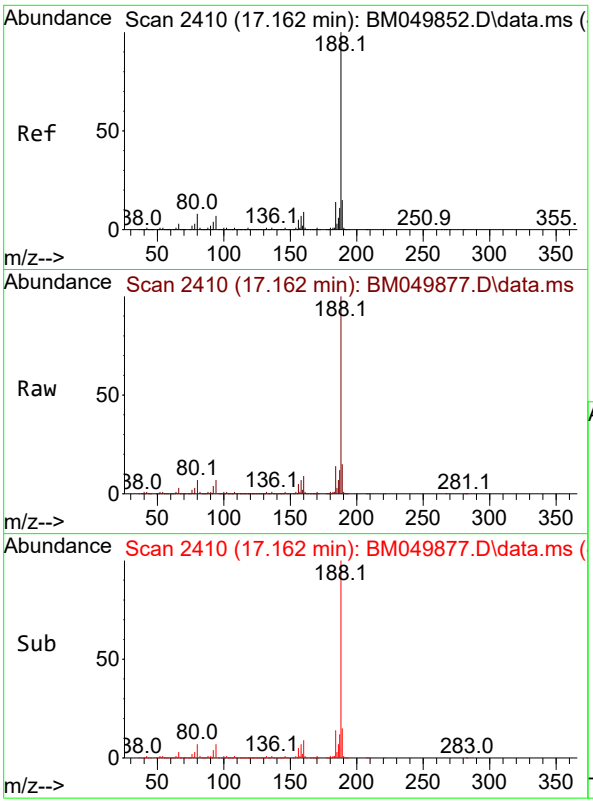


#45
2-Fluorobiphenyl
Concen: 96.296 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:172 Resp: 4613403

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.4	41.2
170	23.3	18.6	28.0



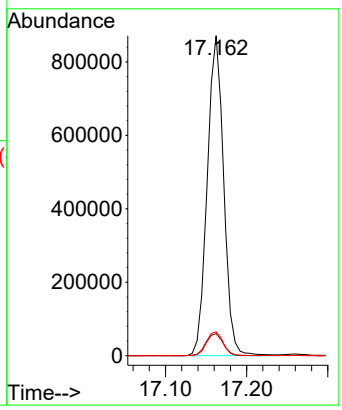


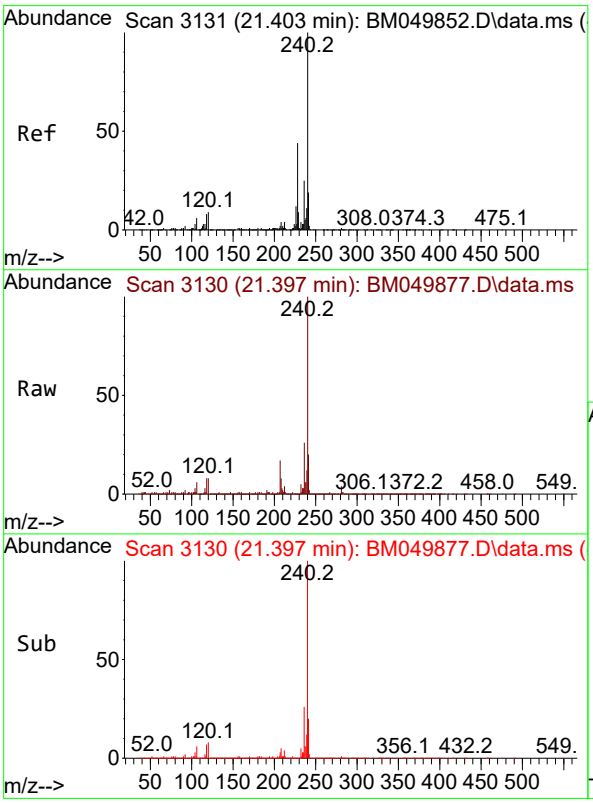
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.162 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:188 Resp: 1225291

Ion	Ratio	Lower	Upper
188	100		
94	6.9	5.8	8.6
80	7.5	6.4	9.6

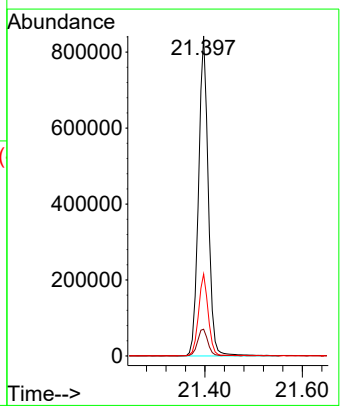


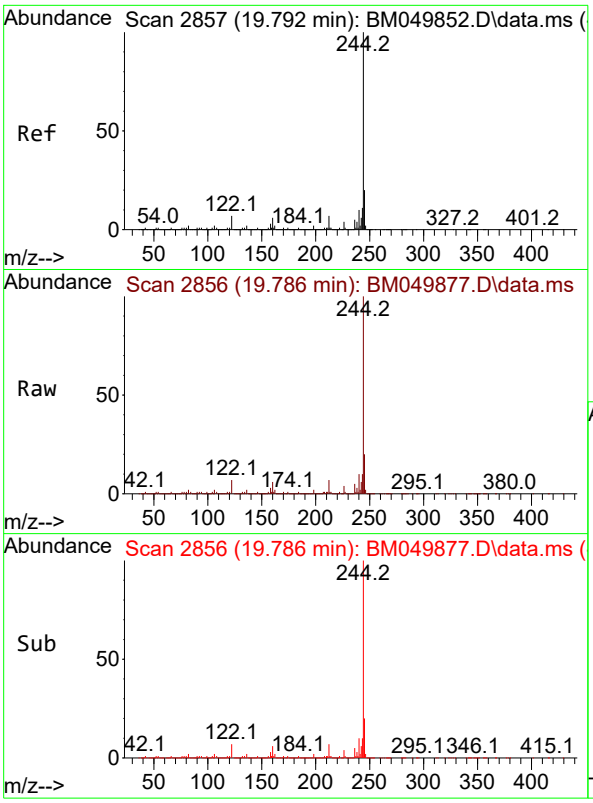


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:240 Resp: 1173504

Ion	Ratio	Lower	Upper
240	100		
120	8.4	6.9	10.3
236	25.6	20.4	30.6



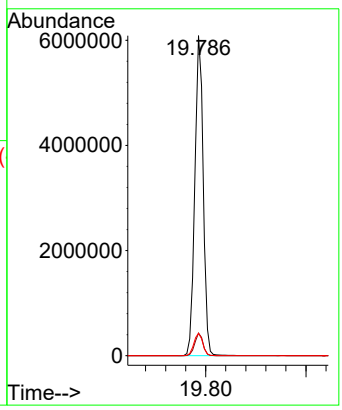


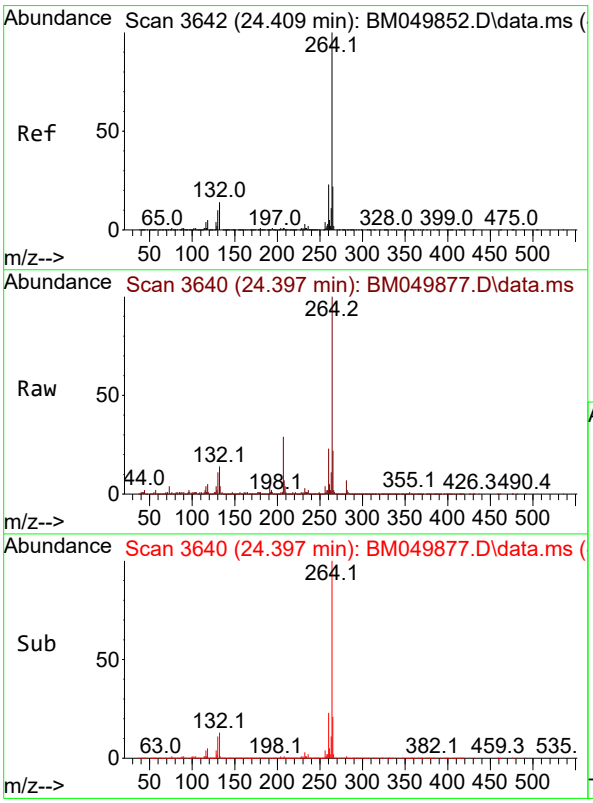
#79
Terphenyl-d14
Concen: 112.339 ng
RT: 19.786 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:244 Resp: 7034521

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	7.0	5.4	8.0

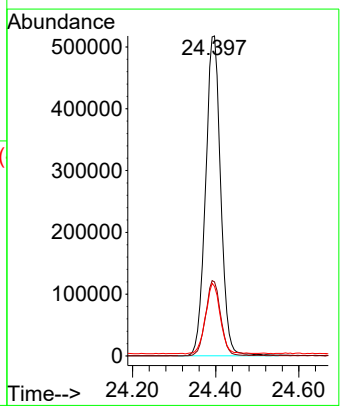




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.397 min Scan# 3640
Delta R.T. -0.012 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:264 Resp: 1306478

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.8	17.8	26.8



Sample Results: **BM049877.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM049877.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.893	319	324	334	rVB	646700	865751	4.95%	1.128%
2	5.363	397	404	418	rBV	5708587	7953113	45.44%	10.360%
3	6.951	667	674	686	rBV	5127694	7849371	44.85%	10.225%
4	7.775	807	814	826	rVB	1049123	1640539	9.37%	2.137%
5	8.933	1003	1011	1022	rBV	3032859	4957314	28.33%	6.457%
6	10.569	1281	1289	1302	rBV	1182597	2019525	11.54%	2.631%
7	13.039	1700	1709	1724	rBV	8747013	12190336	69.66%	15.879%
8	14.421	1936	1944	1959	rBV	1754162	2616740	14.95%	3.409%
9	15.909	2190	2197	2216	rBV	6670855	9261965	52.92%	12.065%
10	17.162	2404	2410	2422	rBV	1998943	2845156	16.26%	3.706%
11	18.062	2558	2563	2578	rBV	216597	490971	2.81%	0.640%
12	19.339	2776	2780	2789	rBV2	174301	362861	2.07%	0.473%
13	19.786	2851	2856	2869	rBV	14999522	17500587	100.00%	22.796%
14	21.397	3125	3130	3142	rVB	2153994	2970766	16.98%	3.870%
15	24.397	3632	3640	3650	rVB	1302019	3244234	18.54%	4.226%

Sum of corrected areas: 76769229

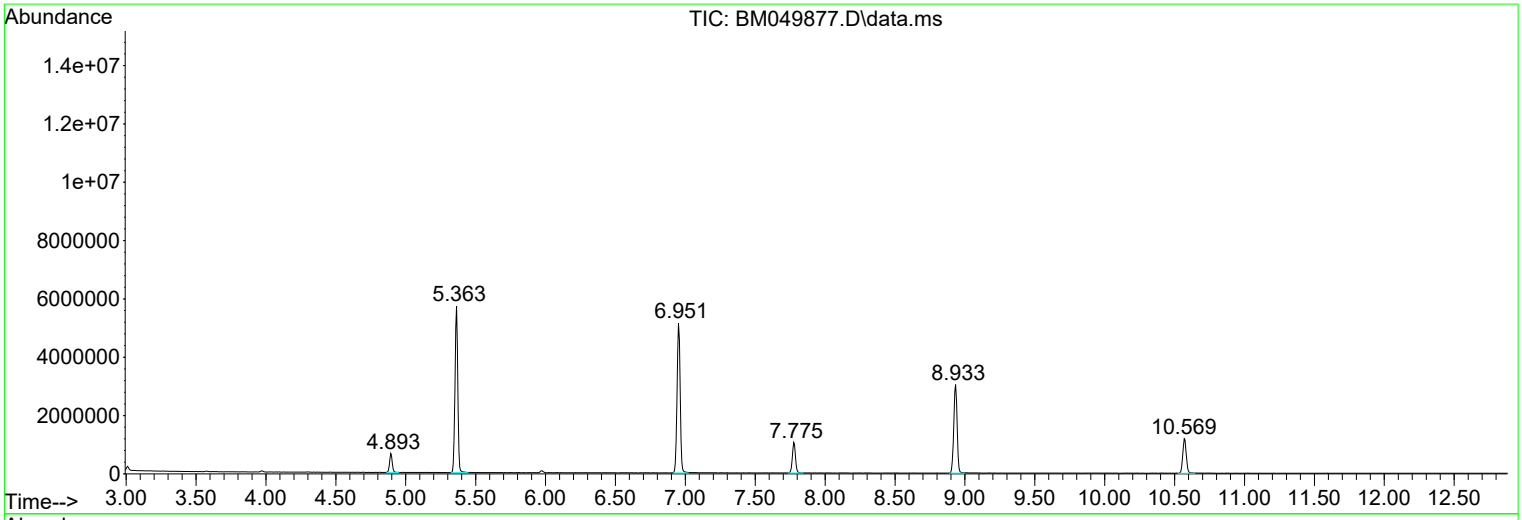
Sample Results: **BM049877.D**

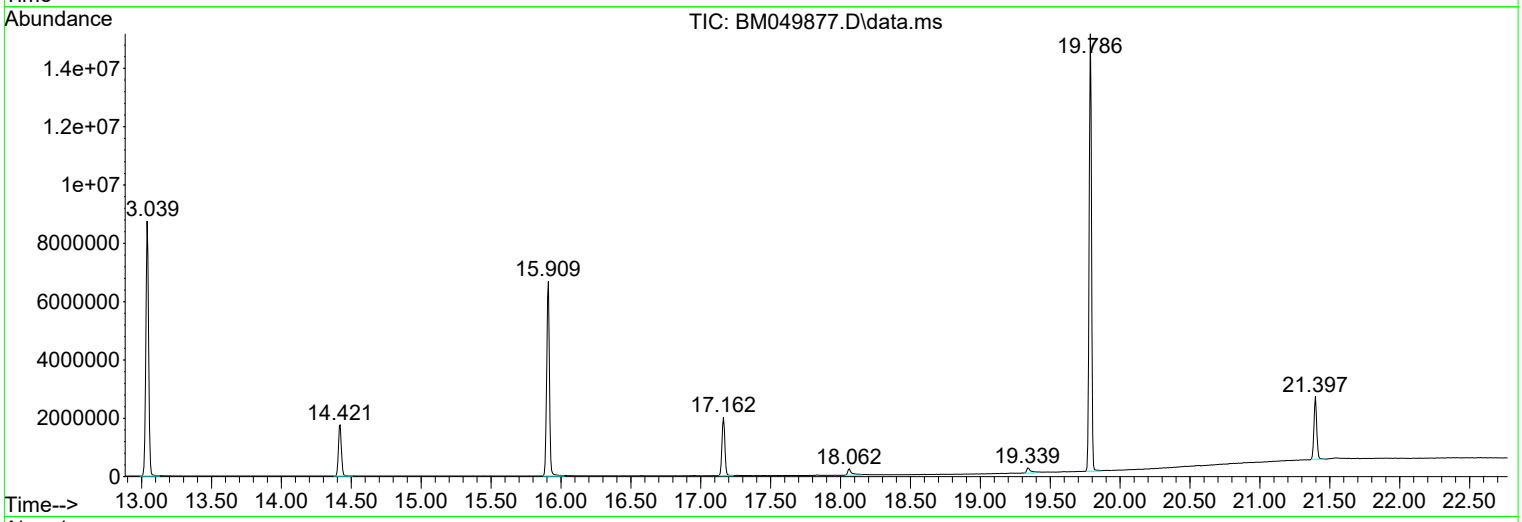
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

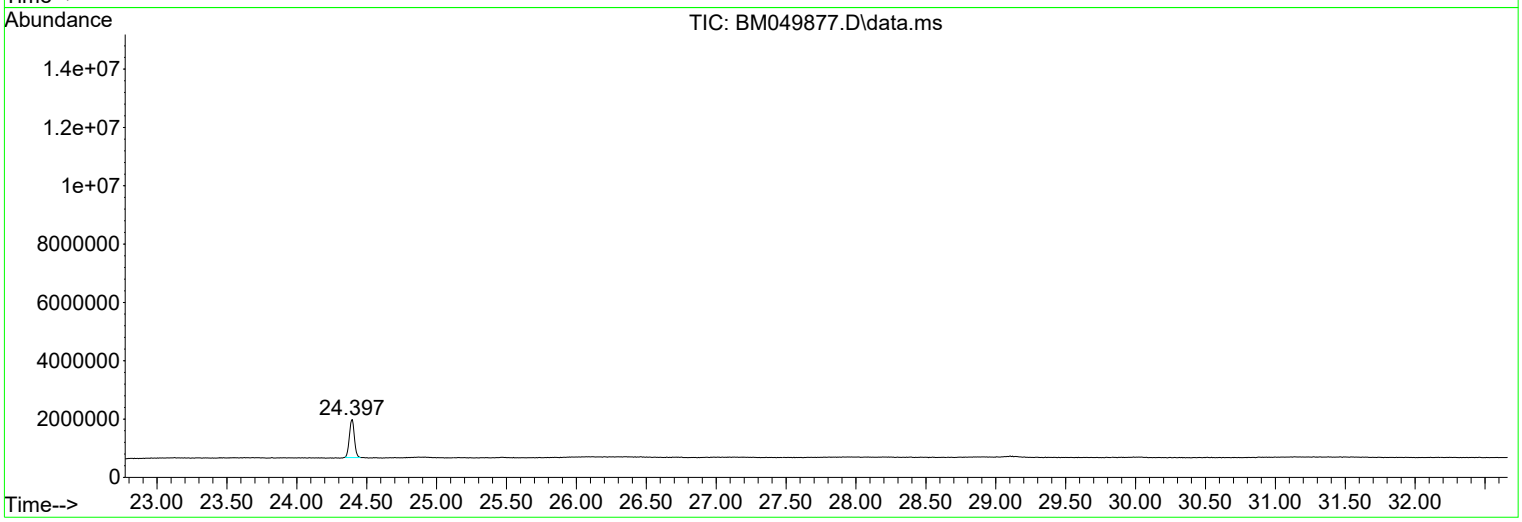
Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

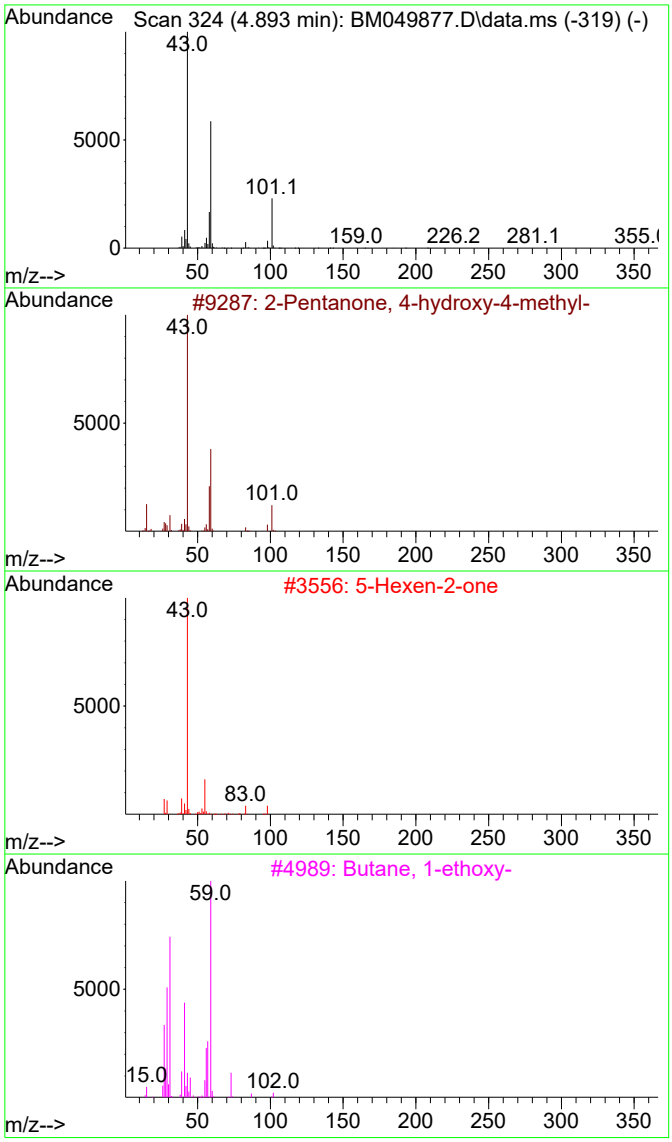
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

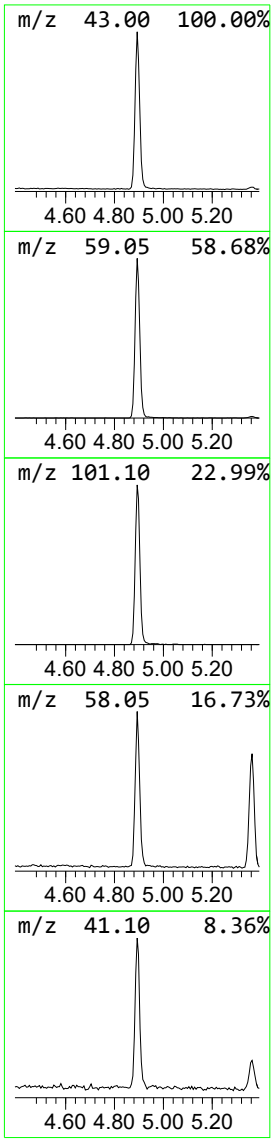
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.893	10.55 ng	865751	1,4-Dichlorobenzene-d4	7.775

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	5-Hexen-2-one	98	C6H10O	000109-49-9	9
3	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

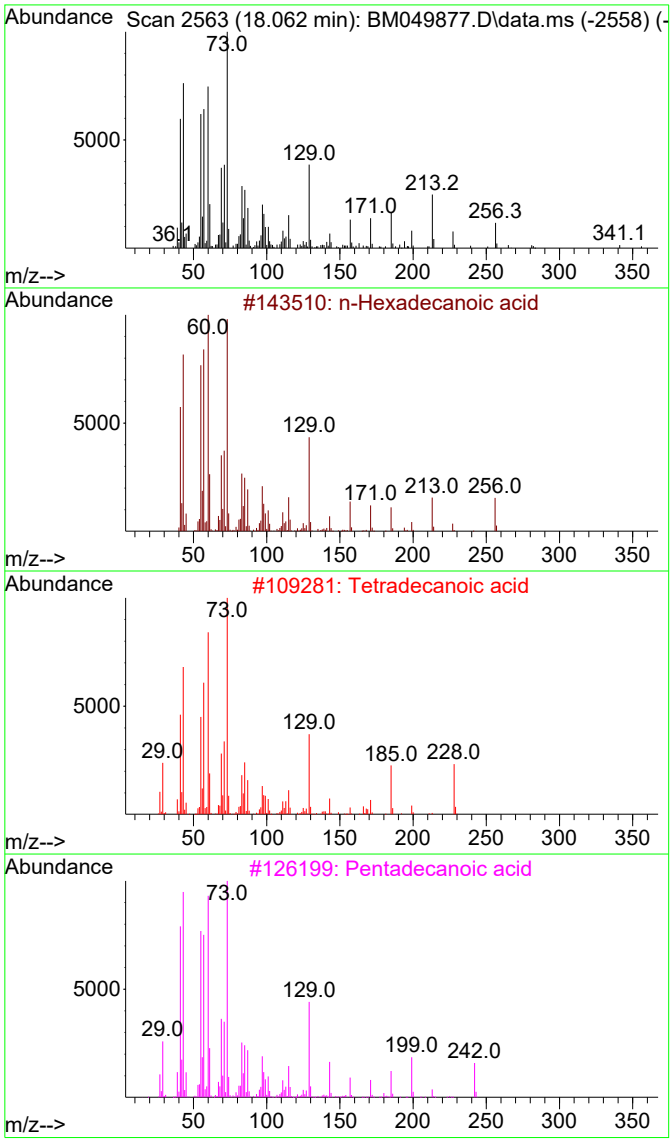
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

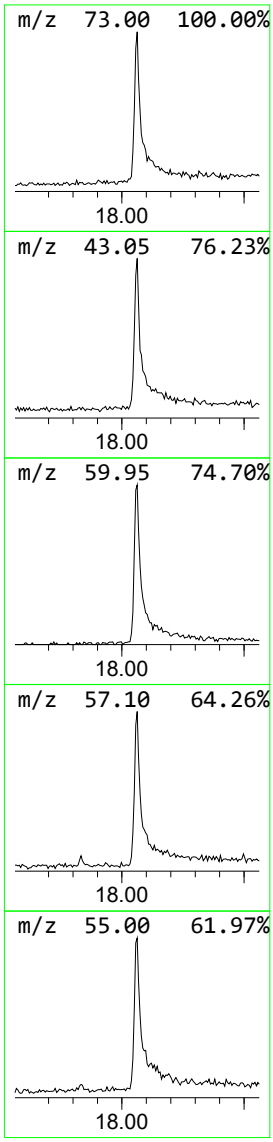
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.062	3.45 ng	490971	Phenanthrene-d10	17.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	Tridecanoic acid	214	C13H26O2	000638-53-9	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

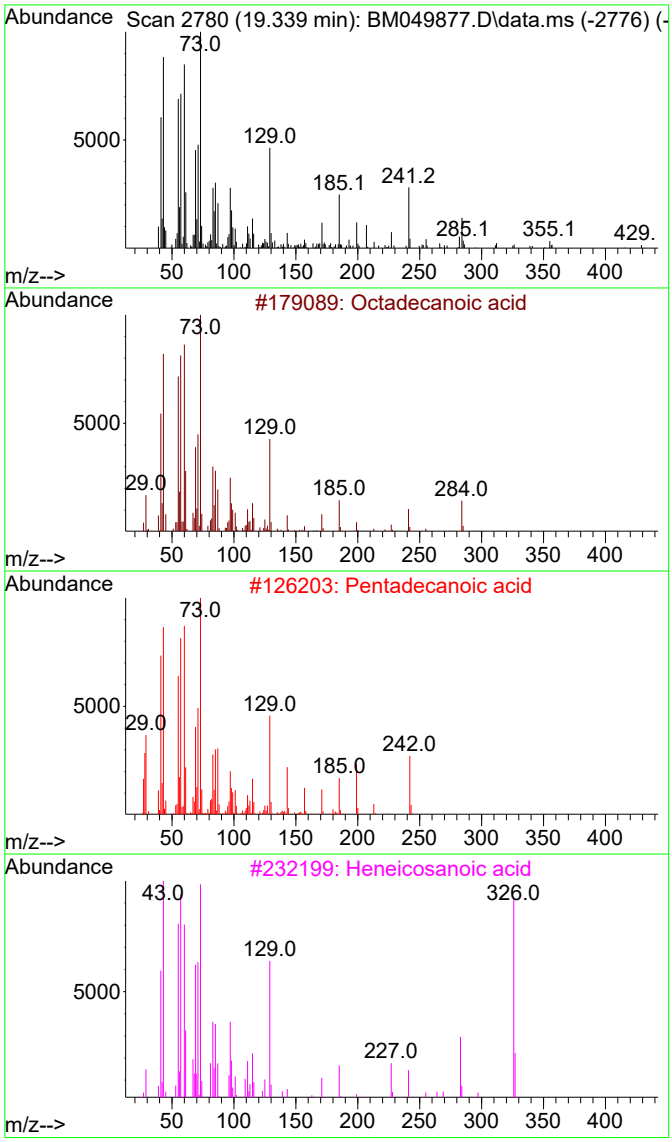
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

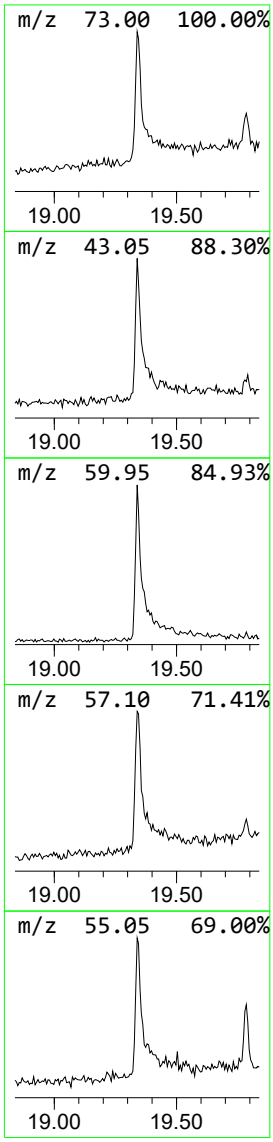
****

Peak Number 3 Octadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.339	2.44 ng	362861	Chrysene-d12	21.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Heneicosanoic acid	326	C21H42O2	002363-71-5	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.893	10.6	ng	865751	1	7.775	1640540	20.0
n-Hexadecanoic ...	18.062	3.5	ng	490971	4	17.162	2845160	20.0
Octadecanoic acid	19.339	2.4	ng	362861	5	21.397	2970770	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049860.D
Acq On : 09 Apr 2025 09:48
Operator : RC/JU
Sample : PB167521BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Quant Time: Apr 09 11:50:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

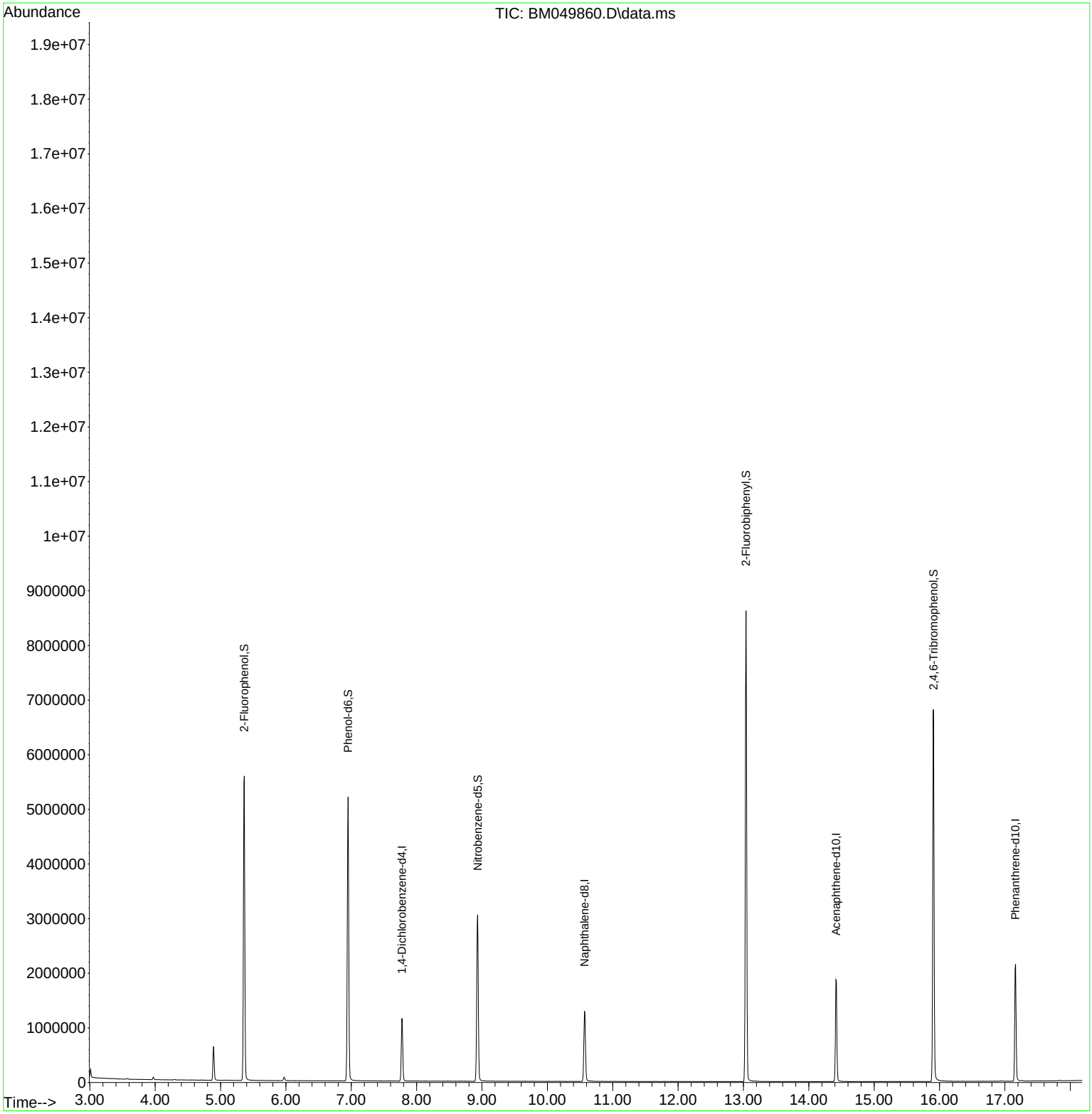
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	332281	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1132683	20.000	ng	0.00
39) Acenaphthene-d10	14.416	164	701970	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	1345526	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1270012	20.000	ng	0.00
86) Perylene-d12	24.391	264	1381061	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	2512705	128.408	ng	0.00
7) Phenol-d6	6.951	99	3032771	124.568	ng	0.00
23) Nitrobenzene-d5	8.934	82	1795986	88.295	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	1393023	136.432	ng	0.00
45) 2-Fluorobiphenyl	13.039	172	4615951	89.167	ng	0.00
79) Terphenyl-d14	19.786	244	7348045	108.429	ng	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049860.D
Acq On : 09 Apr 2025 09:48
Operator : RC/JU
Sample : PB167521BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BL

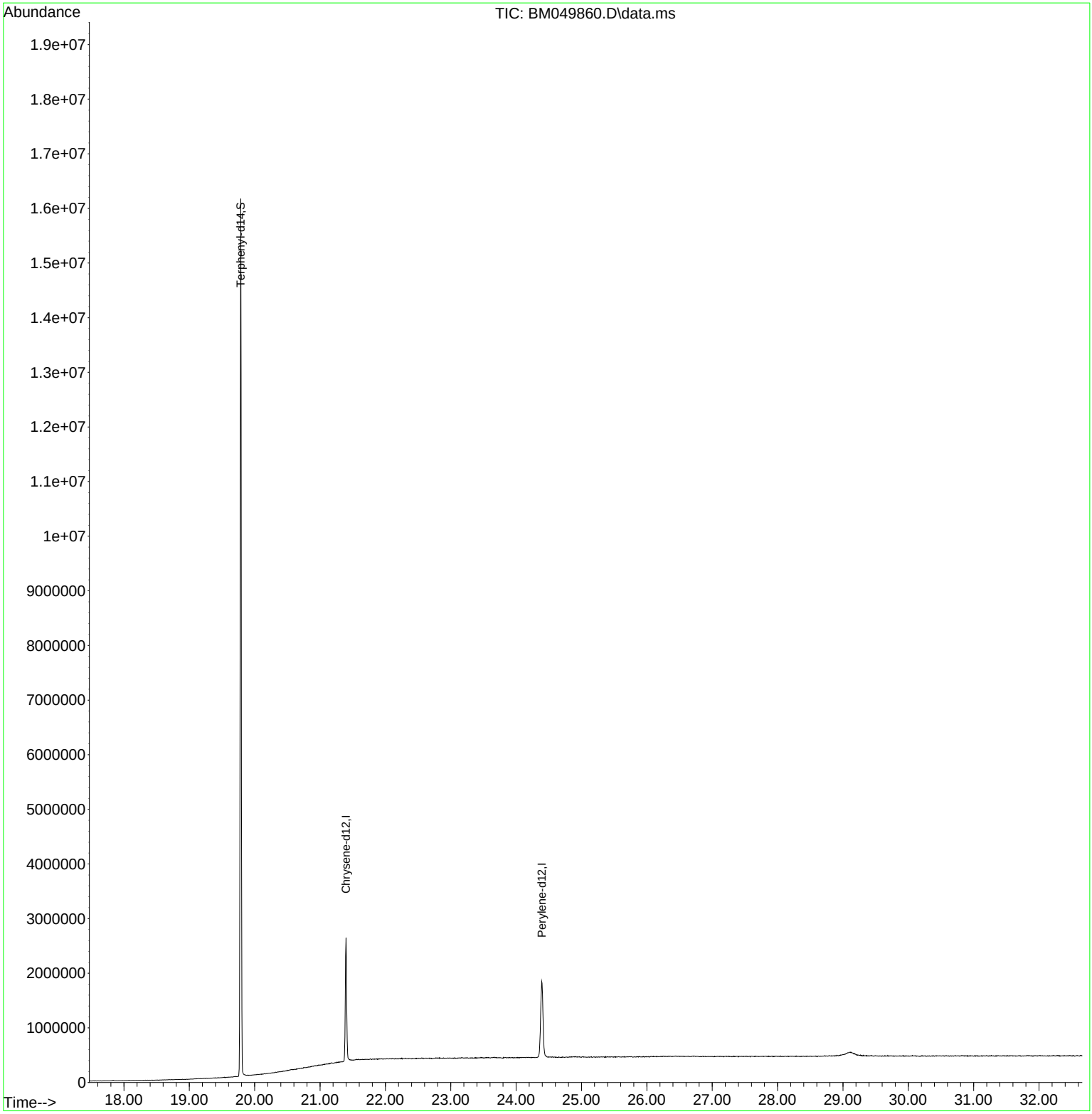
Quant Time: Apr 09 11:50:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

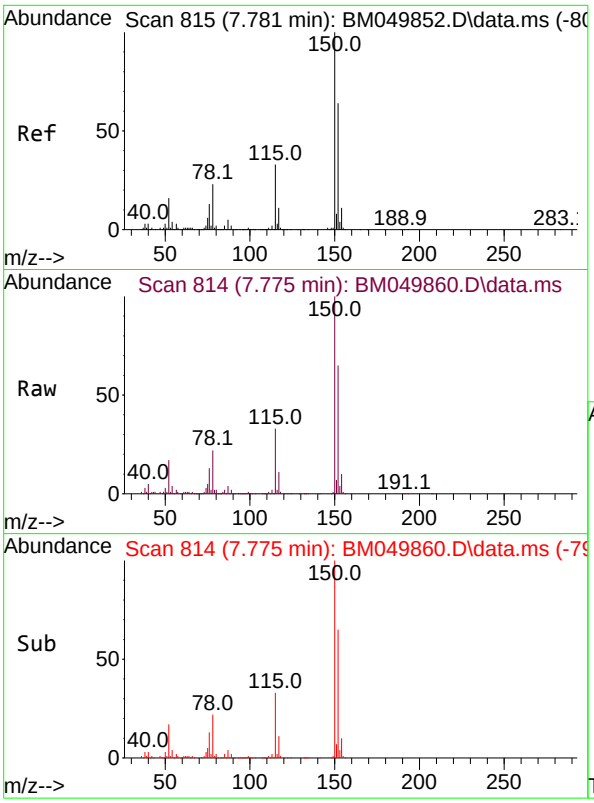


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049860.D
Acq On : 09 Apr 2025 09:48
Operator : RC/JU
Sample : PB167521BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Quant Time: Apr 09 11:50:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



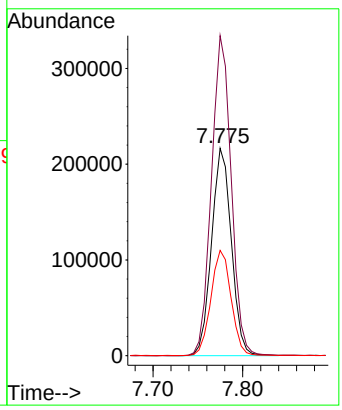


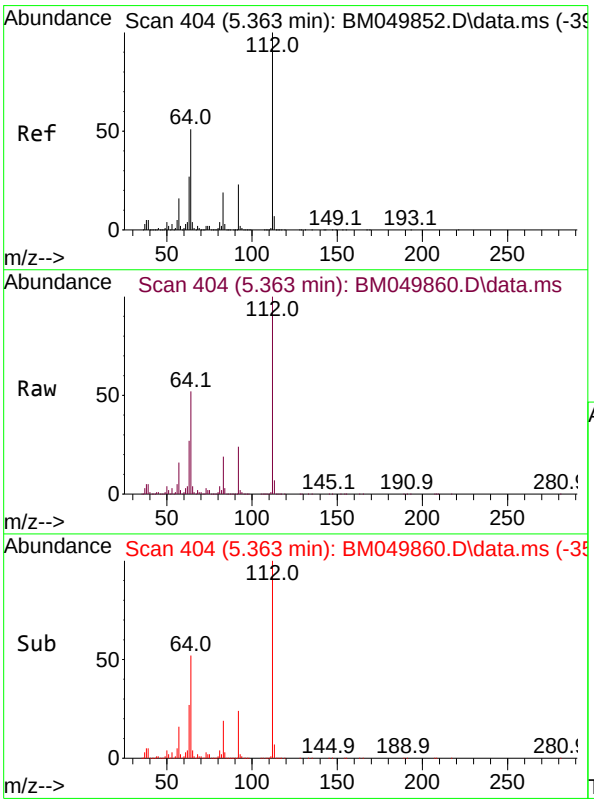
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Tgt Ion:152 Resp: 332281

Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.3	186.5
115	50.8	41.1	61.7

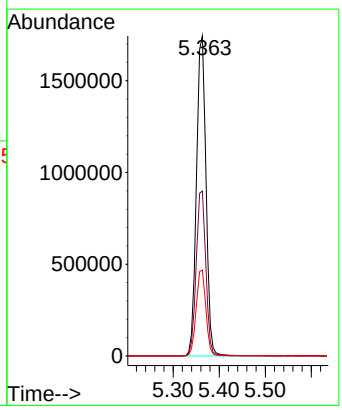




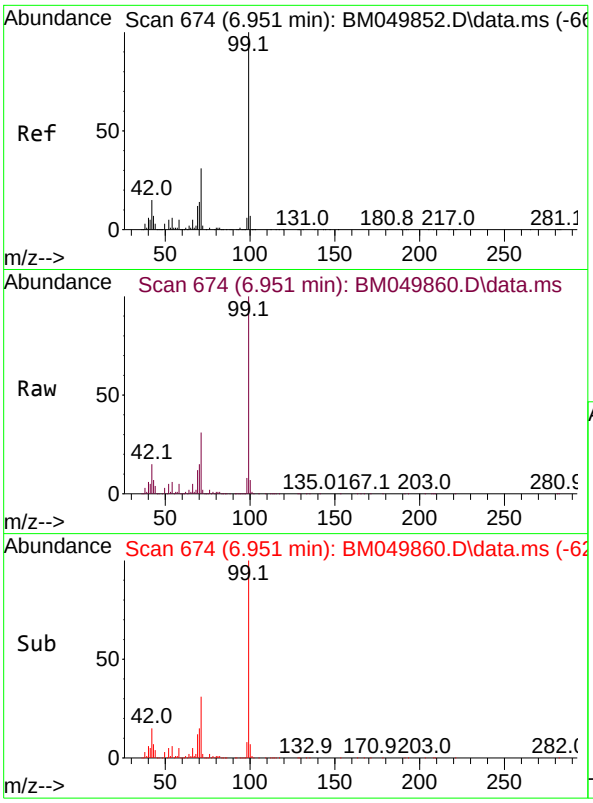
#5
2-Fluorophenol
Concen: 128.408 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Tgt Ion:112 Resp: 2512705

Ion	Ratio	Lower	Upper
112	100		
64	51.5	41.0	61.6
63	26.9	21.5	32.3



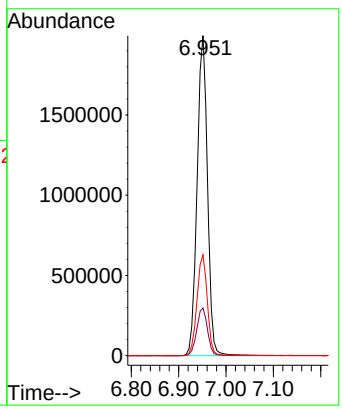
Instrument :
BNA_M
ClientSampleId :
PB167521BL

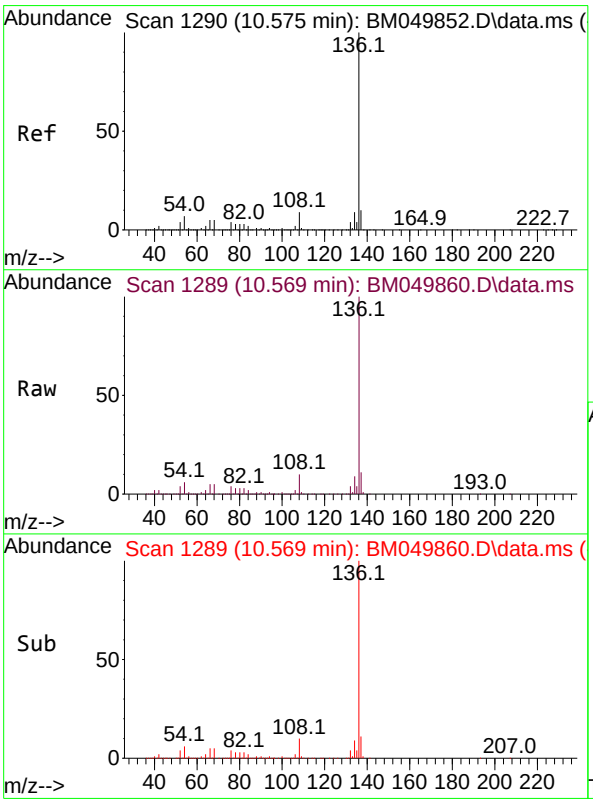


#7
Phenol-d6
Concen: 124.568 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Tgt Ion: 99 Resp: 3032771

Ion	Ratio	Lower	Upper
99	100		
42	15.0	12.1	18.1
71	31.5	24.9	37.3

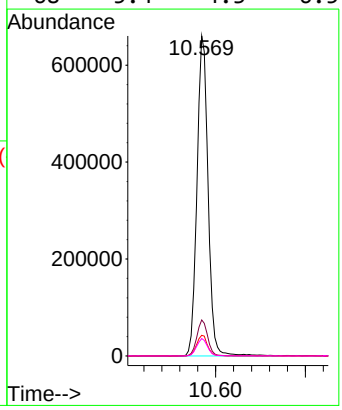


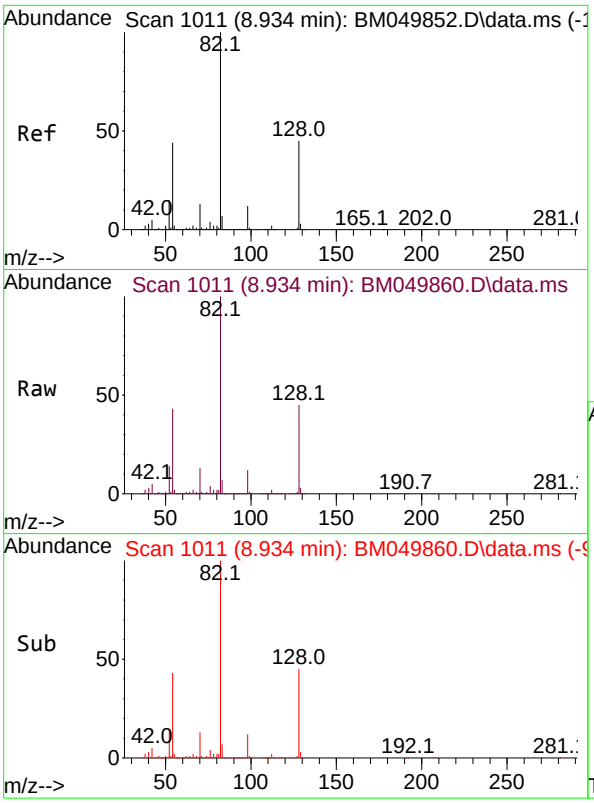


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Tgt Ion:136 Resp: 1132683

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.4	12.6
54	6.4	5.3	7.9
68	5.4	4.3	6.5



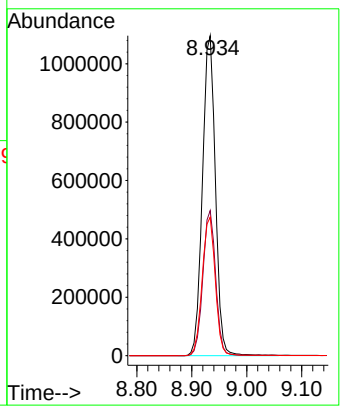


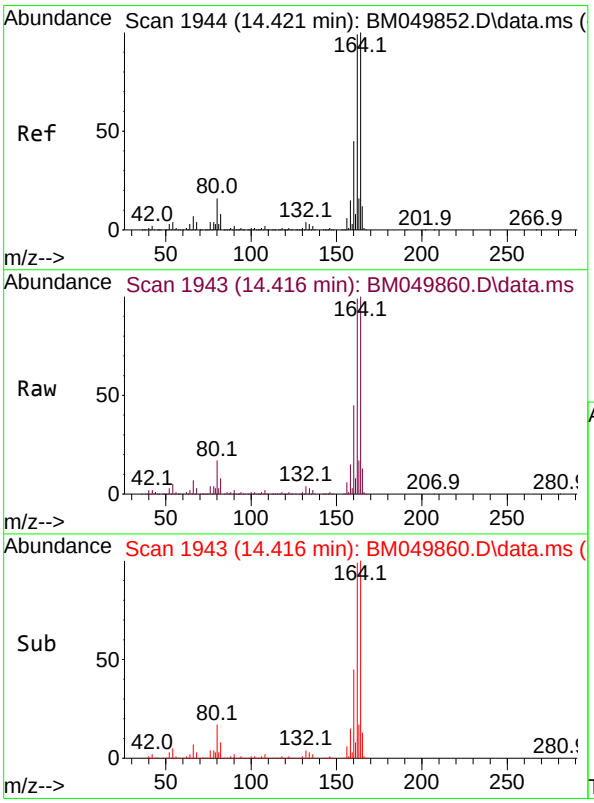
#23
Nitrobenzene-d5
Concen: 88.295 ng
RT: 8.934 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Tgt Ion: 82 Resp: 1795986

Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.2	54.2
54	43.3	35.0	52.6

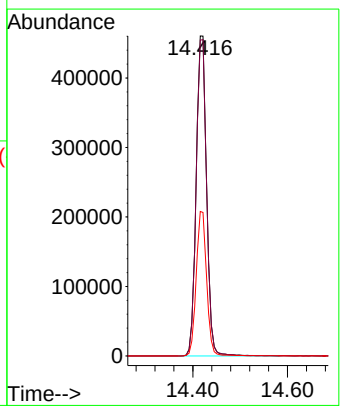


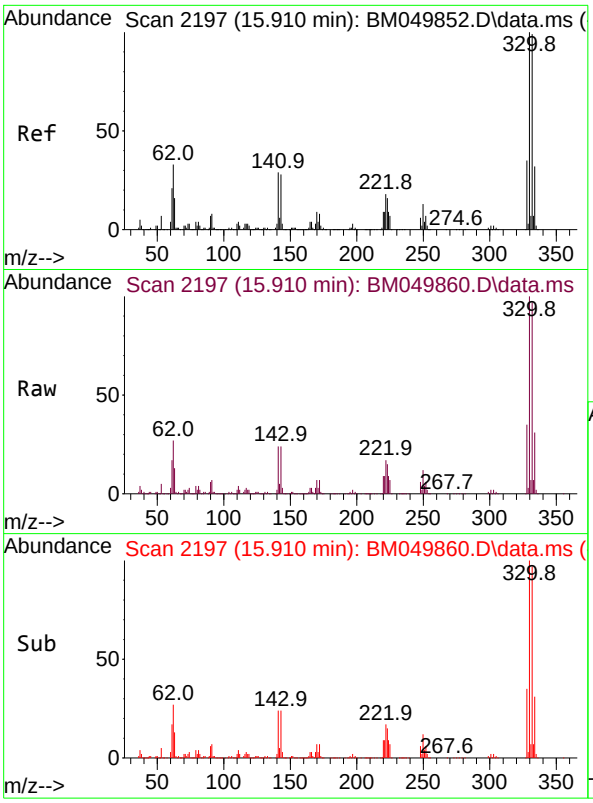


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Tgt Ion:164 Resp: 701970

Ion	Ratio	Lower	Upper
164	100		
162	98.7	79.4	119.0
160	45.1	36.2	54.2



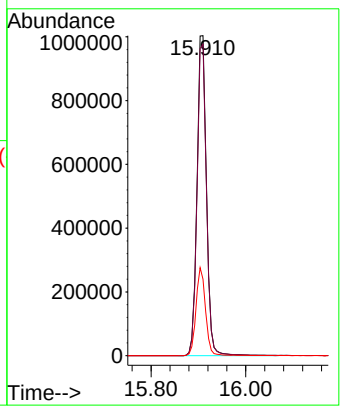


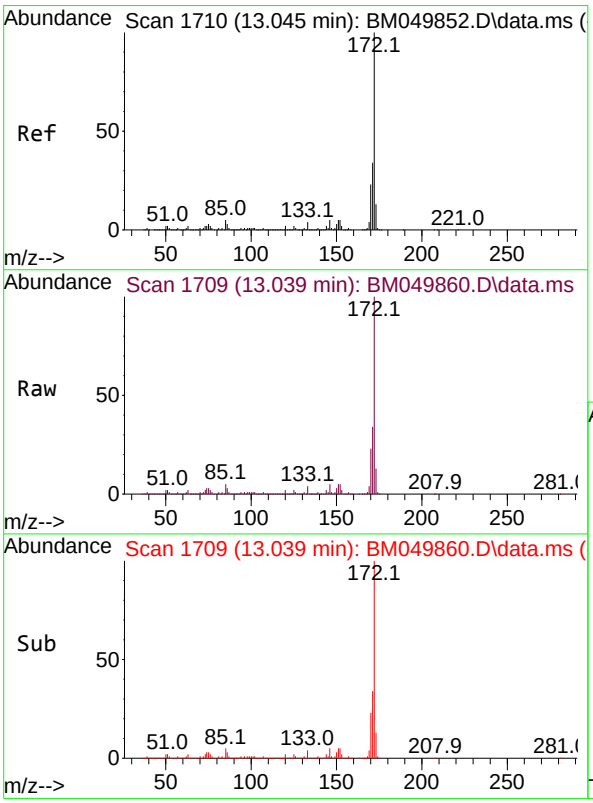
#42
2,4,6-Tribromophenol
Concen: 136.432 ng
RT: 15.910 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Tgt Ion:330 Resp: 1393023

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.0	117.0
141	27.8	23.5	35.3

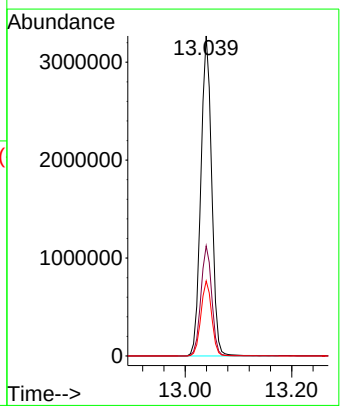


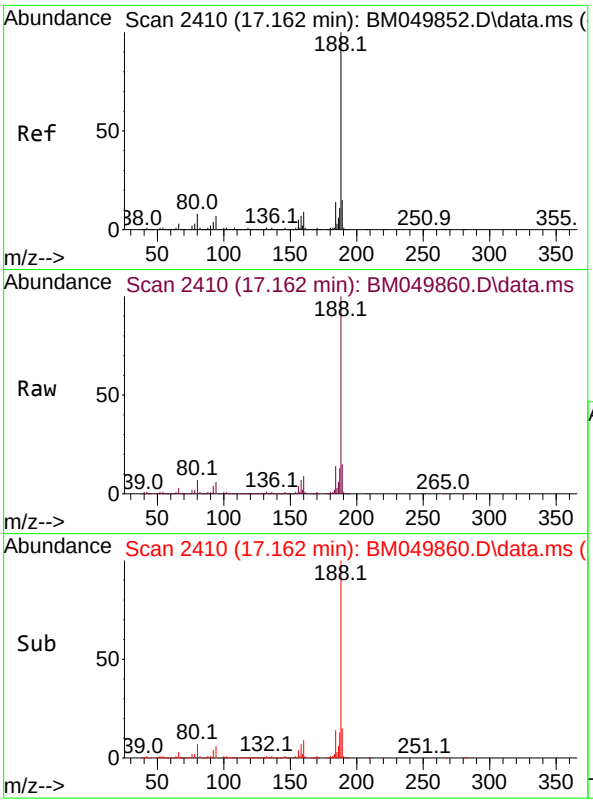


#45
2-Fluorobiphenyl
Concen: 89.167 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Tgt Ion:172 Resp: 4615951

Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.4	41.2
170	23.4	18.6	28.0



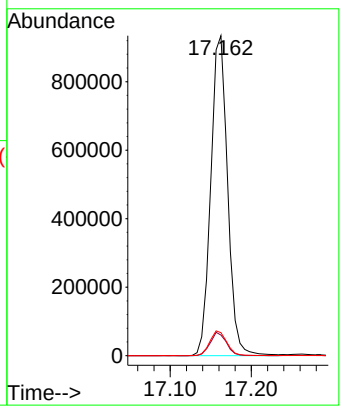


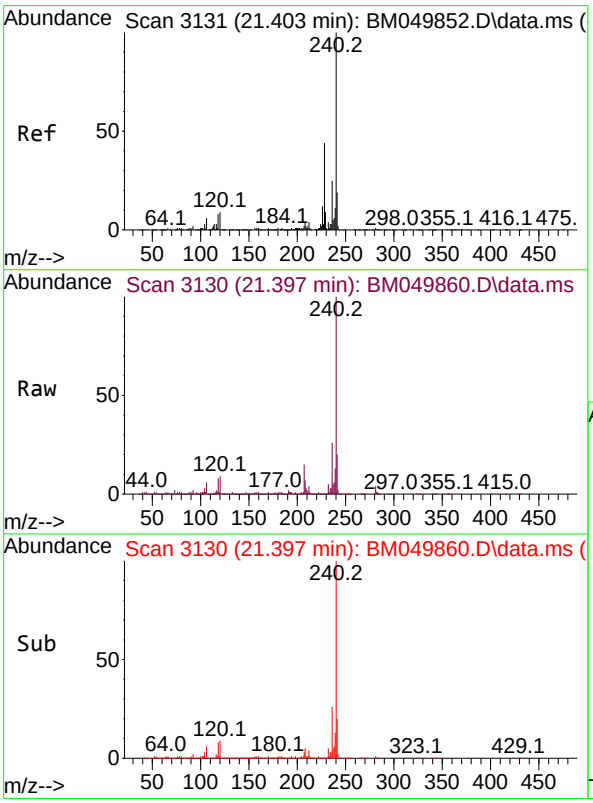
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.162 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Tgt Ion:188 Resp: 1345526

Ion	Ratio	Lower	Upper
188	100		
94	6.4	5.8	8.6
80	7.2	6.4	9.6

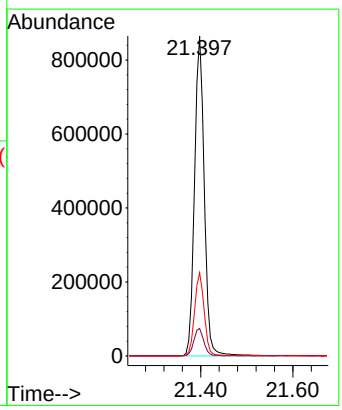


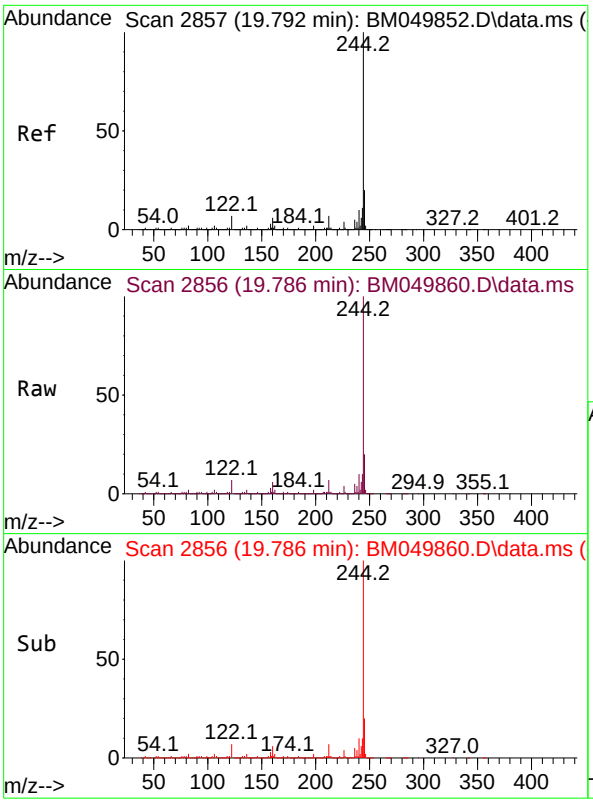


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Tgt Ion:240 Resp: 1270012

Ion	Ratio	Lower	Upper
240	100		
120	8.6	6.9	10.3
236	26.0	20.4	30.6



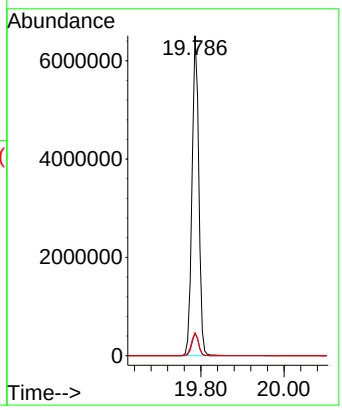


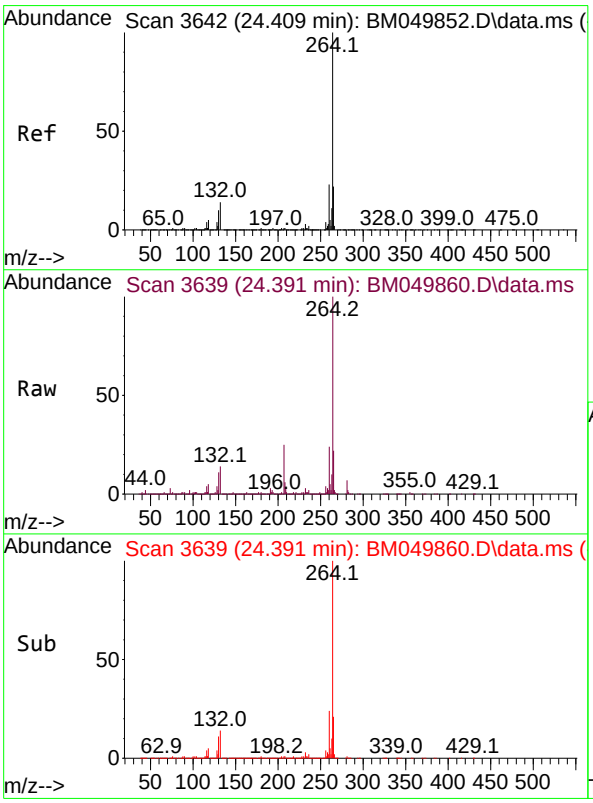
#79
Terphenyl-d14
Concen: 108.429 ng
RT: 19.786 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Tgt Ion:244 Resp: 7348045

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	7.1	5.4	8.0

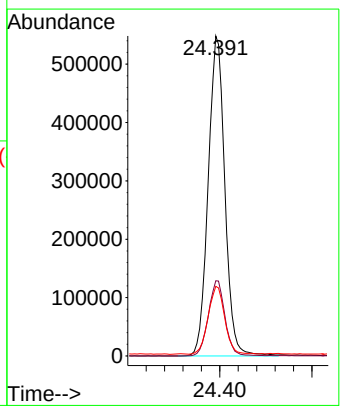




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.391 min Scan# 3639
Delta R.T. -0.018 min
Lab File: BM049860.D
Acq: 09 Apr 2025 09:48

Tgt Ion:264 Resp: 1381061

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.8	17.8	26.8



Sample Results: **BM049860.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049860.D
Acq On : 09 Apr 2025 09:48
Operator : RC/JU
Sample : PB167521BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM049860.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.893	319	324	331	rBV	621713	828312	4.51%	1.050%
2	5.363	397	404	421	rBV	5572018	8103768	44.14%	10.273%
3	6.951	666	674	689	rBV	5200303	8017188	43.67%	10.163%
4	7.775	807	814	825	rBV	1146886	1795930	9.78%	2.277%
5	8.934	1003	1011	1023	rBV	3048207	5032869	27.41%	6.380%
6	10.569	1280	1289	1300	rBV	1289614	2203550	12.00%	2.793%
7	13.039	1701	1709	1727	rBV	8620554	12256483	66.76%	15.537%
8	14.416	1937	1943	1960	rBV	1859190	2833843	15.44%	3.592%
9	15.904	2188	2196	2210	rBV	6810742	9476102	51.62%	12.013%
10	17.162	2403	2410	2424	rBV2	2138722	3149174	17.15%	3.992%
11	19.786	2850	2856	2871	rBV	16064322	18358983	100.00%	23.273%
12	21.397	3124	3130	3139	rBV	2259669	3328561	18.13%	4.220%
13	24.391	3632	3639	3655	rVB	1387290	3499272	19.06%	4.436%

Sum of corrected areas: 78884035

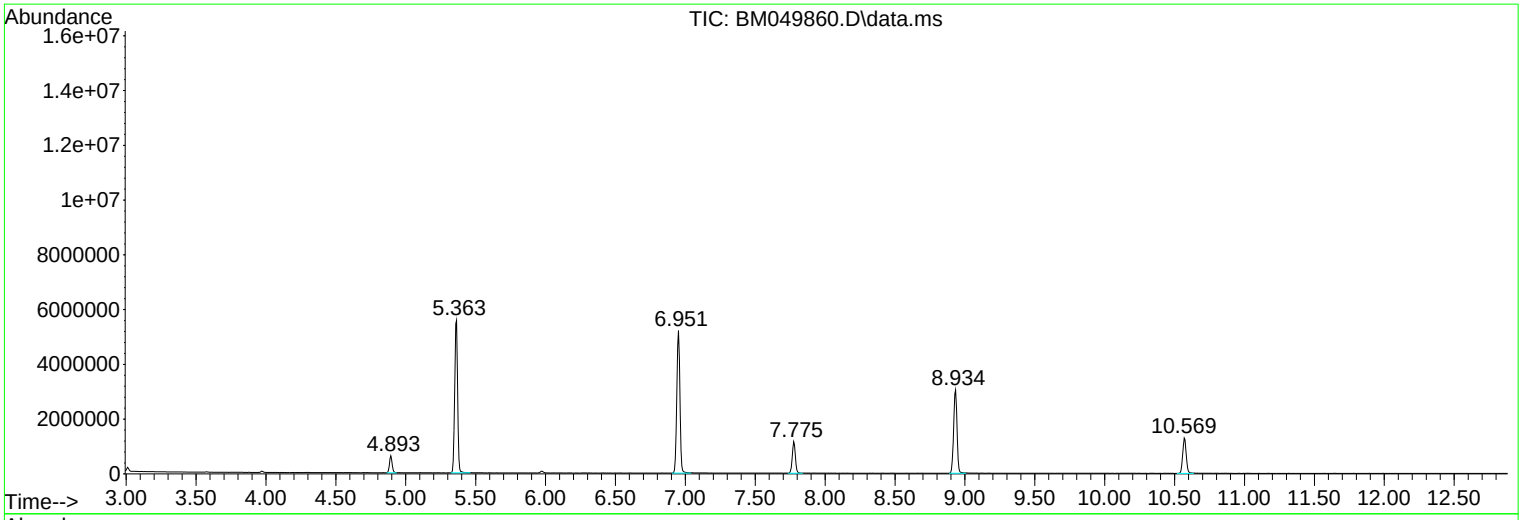
Sample Results: **BM049860.D**

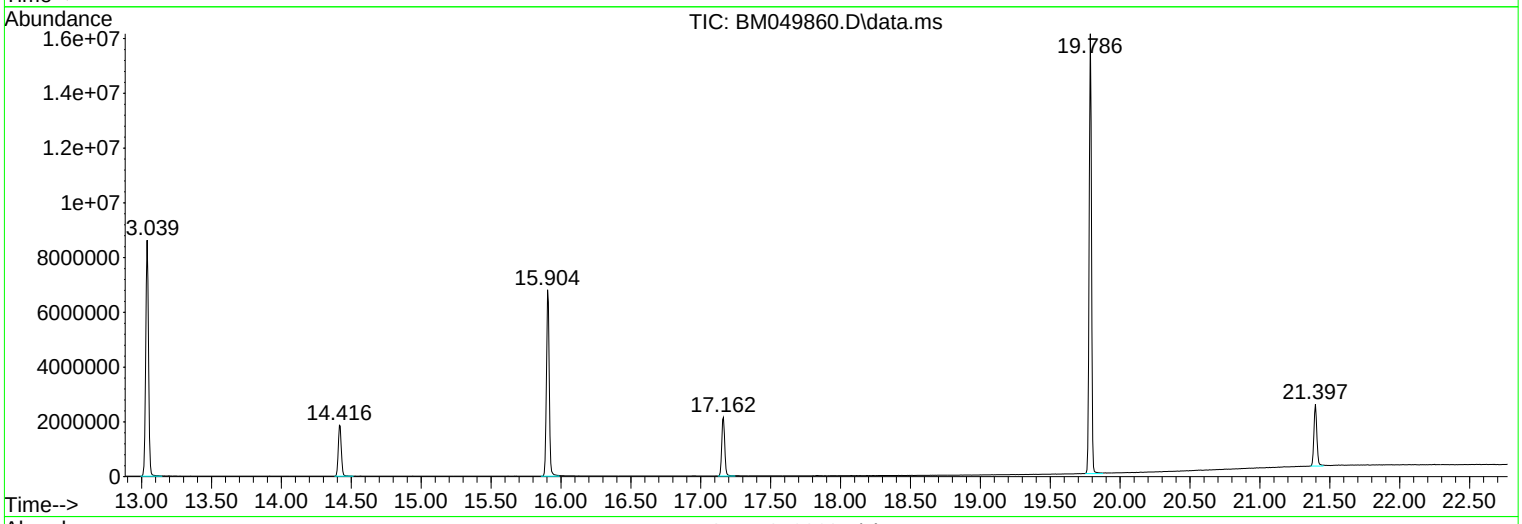
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049860.D
Acq On : 09 Apr 2025 09:48
Operator : RC/JU
Sample : PB167521BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

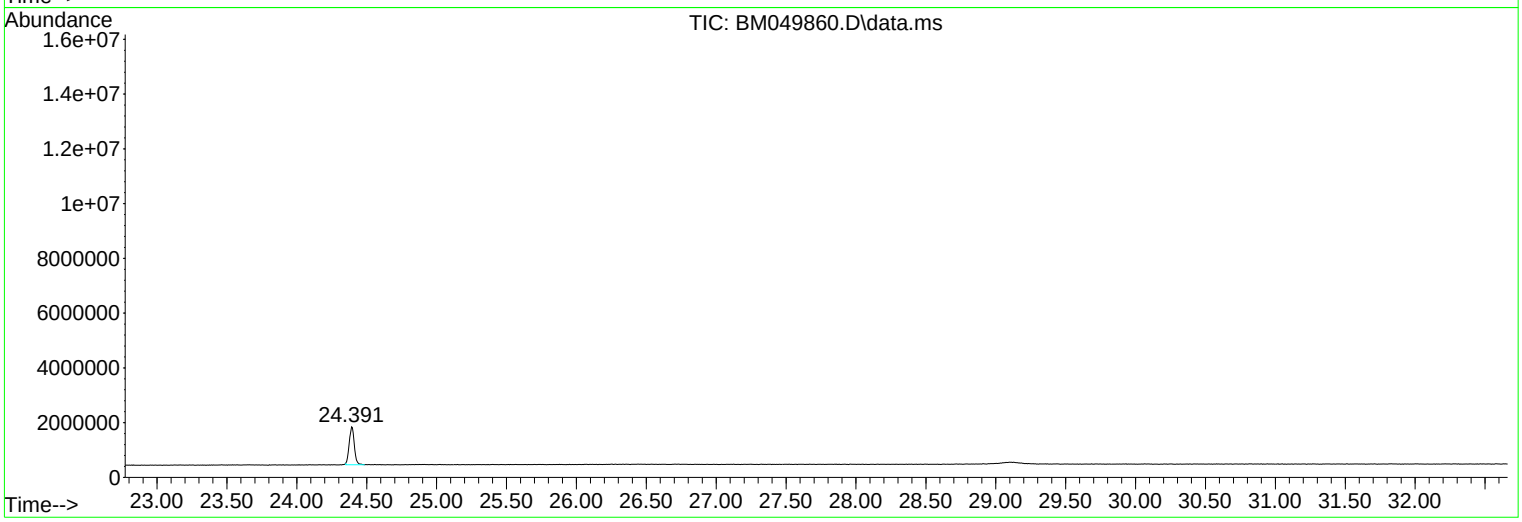
Instrument :
BNA_M
ClientSampleId :
PB167521BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049860.D
Acq On : 09 Apr 2025 09:48
Operator : RC/JU
Sample : PB167521BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BL

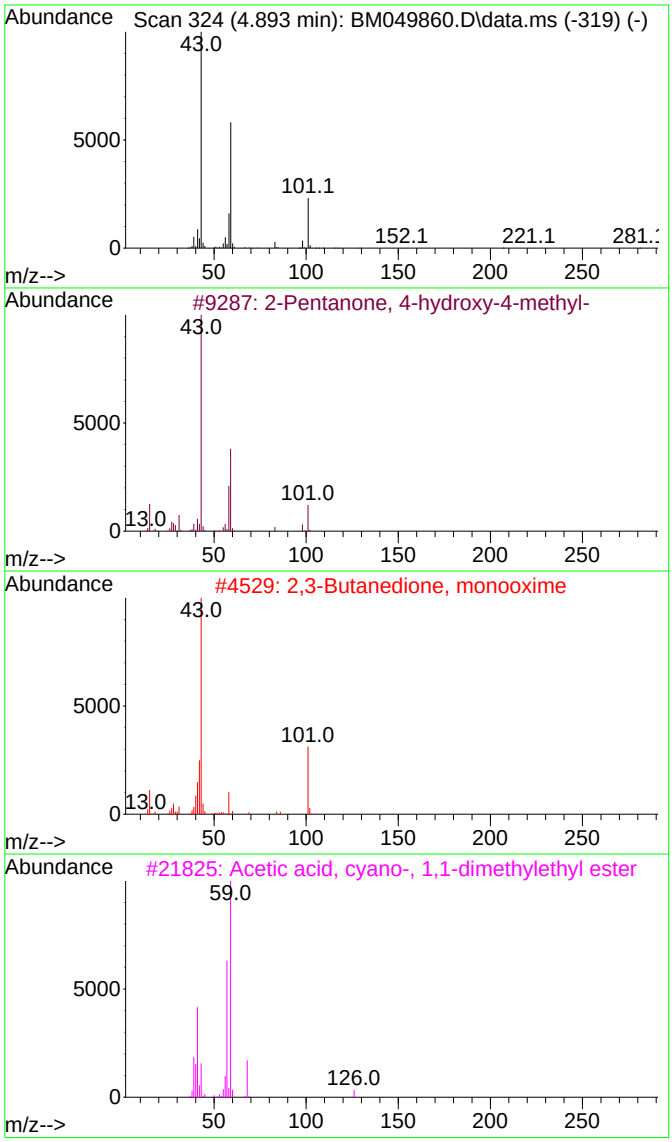
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

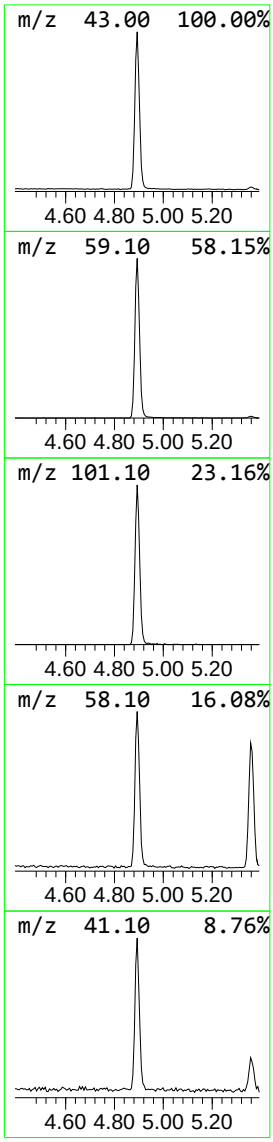
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.893	9.22 ng	828312	1,4-Dichlorobenzene-d4	7.775

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049860.D
Acq On : 09 Apr 2025 09:48
Operator : RC/JU
Sample : PB167521BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.893	9.2	ng	828312	1	7.775	1795930	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.769	152	335569	20.000	ng		-0.01
21) Naphthalene-d8	10.563	136	1154159	20.000	ng		-0.01
39) Acenaphthene-d10	14.416	164	723173	20.000	ng		0.00
64) Phenanthrene-d10	17.157	188	1408528	20.000	ng		0.00
76) Chrysene-d12	21.404	240	1396785	20.000	ng		0.00
86) Perylene-d12	24.403	264	1468801	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.358	112	2517914	127.414	ng		0.00
7) Phenol-d6	6.952	99	3087375	125.568	ng		0.00
23) Nitrobenzene-d5	8.928	82	1807121	87.189	ng		0.00
42) 2,4,6-Tribromophenol	15.910	330	1524489	144.930	ng		0.00
45) 2-Fluorobiphenyl	13.034	172	4755133	89.163	ng		-0.01
79) Terphenyl-d14	19.786	244	7545930	101.243	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.252	88	285236	35.047	ng		99
3) Pyridine	3.652	79	801586	37.487	ng		99
4) n-Nitrosodimethylamine	3.564	42	348421	42.817	ng		100
6) Aniline	7.099	93	802210	38.077	ng		100
8) 2-Chlorophenol	7.340	128	926757	45.761	ng		99
9) Benzaldehyde	6.910	77	410086	32.502	ng		99
10) Phenol	6.981	94	1092338	45.526	ng		98
11) bis(2-Chloroethyl)ether	7.193	93	862929	45.862	ng		100
12) 1,3-Dichlorobenzene	7.657	146	1062242	44.365	ng		98
13) 1,4-Dichlorobenzene	7.805	146	1072356	44.511	ng		99
14) 1,2-Dichlorobenzene	8.122	146	1029815	45.382	ng		99
15) Benzyl Alcohol	8.016	79	709628	45.834	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.293	45	1007433	48.038	ng		98
17) 2-Methylphenol	8.222	107	711381	48.112	ng		99
18) Hexachloroethane	8.846	117	374982	44.738	ng		99
19) n-Nitroso-di-n-propyla...	8.581	70	626211	45.985	ng		99
20) 3+4-Methylphenols	8.552	107	954078	47.329	ng		99
22) Acetophenone	8.593	105	1241485	44.260	ng	#	99
24) Nitrobenzene	8.969	77	897029	44.947	ng		99
25) Isophorone	9.499	82	1683372	48.483	ng		99
26) 2-Nitrophenol	9.681	139	487144	46.053	ng		99
27) 2,4-Dimethylphenol	9.751	122	789352	65.846	ng		98
28) bis(2-Chloroethoxy)met...	9.975	93	1054935	45.383	ng		99
29) 2,4-Dichlorophenol	10.228	162	904031	45.368	ng		98
30) 1,2,4-Trichlorobenzene	10.428	180	1025903	44.503	ng		99
31) Naphthalene	10.616	128	2556936	43.115	ng		99
32) Benzoic acid	9.899	122	510676m	36.793	ng		
33) 4-Chloroaniline	10.728	127	517747	24.724	ng		98
34) Hexachlorobutadiene	10.904	225	658407	46.174	ng		98
35) Caprolactam	11.516	113	251400	43.988	ng		99
36) 4-Chloro-3-methylphenol	11.869	107	793616	45.467	ng		99
37) 2-Methylnaphthalene	12.228	142	1684399	40.312	ng		100
38) 1-Methylnaphthalene	12.451	142	1758489	43.198	ng		100
40) 1,2,4,5-Tetrachloroben...	12.604	216	1167474	46.145	ng		99
41) Hexachlorocyclopentadiene	12.581	237	1433013	161.644	ng		98
43) 2,4,6-Trichlorophenol	12.851	196	772469	47.982	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.928	196	833745	47.656	ng	99
46) 1,1'-Biphenyl	13.245	154	2422318	45.059	ng	100
47) 2-Chloronaphthalene	13.287	162	1925861	45.579	ng	98
48) 2-Nitroaniline	13.492	65	474869	48.580	ng	99
49) Acenaphthylene	14.139	152	3047254	49.510	ng	99
50) Dimethylphthalate	13.875	163	2358862	46.235	ng	100
51) 2,6-Dinitrotoluene	13.992	165	515213	48.200	ng	97
52) Acenaphthene	14.481	154	1764030	45.059	ng	99
53) 3-Nitroaniline	14.322	138	351369	34.011	ng	97
54) 2,4-Dinitrophenol	14.539	184	668125	85.742	ng	97
55) Dibenzofuran	14.816	168	2892823	44.201	ng	98
56) 4-Nitrophenol	14.651	139	879693	95.553	ng	99
57) 2,4-Dinitrotoluene	14.786	165	725380	50.868	ng	95
58) Fluorene	15.463	166	2409614	46.319	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	711309	46.388	ng	97
60) Diethylphthalate	15.239	149	2190399	44.769	ng	99
61) 4-Chlorophenyl-phenyle...	15.457	204	1302004	46.682	ng	99
62) 4-Nitroaniline	15.486	138	502922	47.073	ng	99
63) Azobenzene	15.751	77	1866693	44.564	ng	97
65) 4,6-Dinitro-2-methylph...	15.551	198	437036	49.238	ng	98
66) n-Nitrosodiphenylamine	15.675	169	2034520	48.266	ng	99
67) 4-Bromophenyl-phenylether	16.351	248	790083	48.319	ng	97
68) Hexachlorobenzene	16.475	284	919430	49.022	ng	99
69) Atrazine	16.627	200	731486	66.929	ng	98
70) Pentachlorophenol	16.816	266	1280079	92.705	ng	100
71) Phenanthrene	17.204	178	3723574	48.220	ng	100
72) Anthracene	17.292	178	3775775	49.616	ng	100
73) Carbazole	17.563	167	3426685	47.807	ng	99
74) Di-n-butylphthalate	18.127	149	3828697	46.376	ng	99
75) Fluoranthene	19.221	202	4496471	47.358	ng	99
77) Benzidine	19.404	184	1898133	102.434	ng	100
78) Pyrene	19.580	202	4650588	48.311	ng	100
80) Butylbenzylphthalate	20.480	149	1697848	46.939	ng	99
81) Benzo(a)anthracene	21.386	228	4535328	48.856	ng	100
82) 3,3'-Dichlorobenzidine	21.304	252	1250970	35.685	ng	99
83) Chrysene	21.445	228	4184241	47.411	ng	99
84) Bis(2-ethylhexyl)phtha...	21.304	149	2394124	45.429	ng	98
85) Di-n-octyl phthalate	22.439	149	4115837	44.642	ng	100
87) Indeno(1,2,3-cd)pyrene	27.809	276	5360089	48.957	ng	99
88) Benzo(b)fluoranthene	23.462	252	4436790	47.297	ng	99
89) Benzo(k)fluoranthene	23.521	252	4265178	46.919	ng	100
90) Benzo(a)pyrene	24.268	252	4193597	50.874	ng	99
91) Dibenzo(a,h)anthracene	27.856	278	4387155	48.647	ng	99
92) Benzo(g,h,i)perylene	28.862	276	4256093	46.184	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

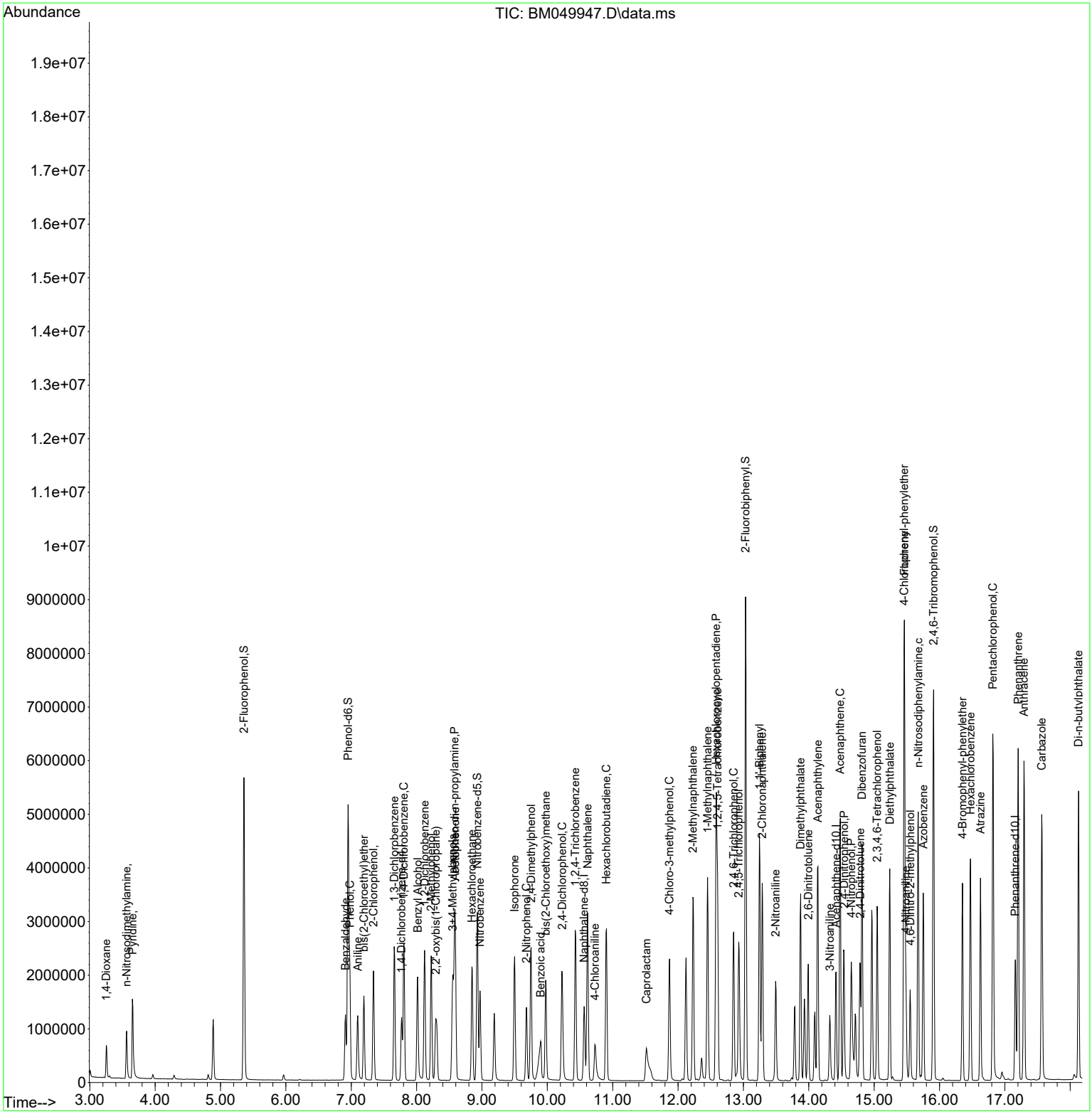
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025



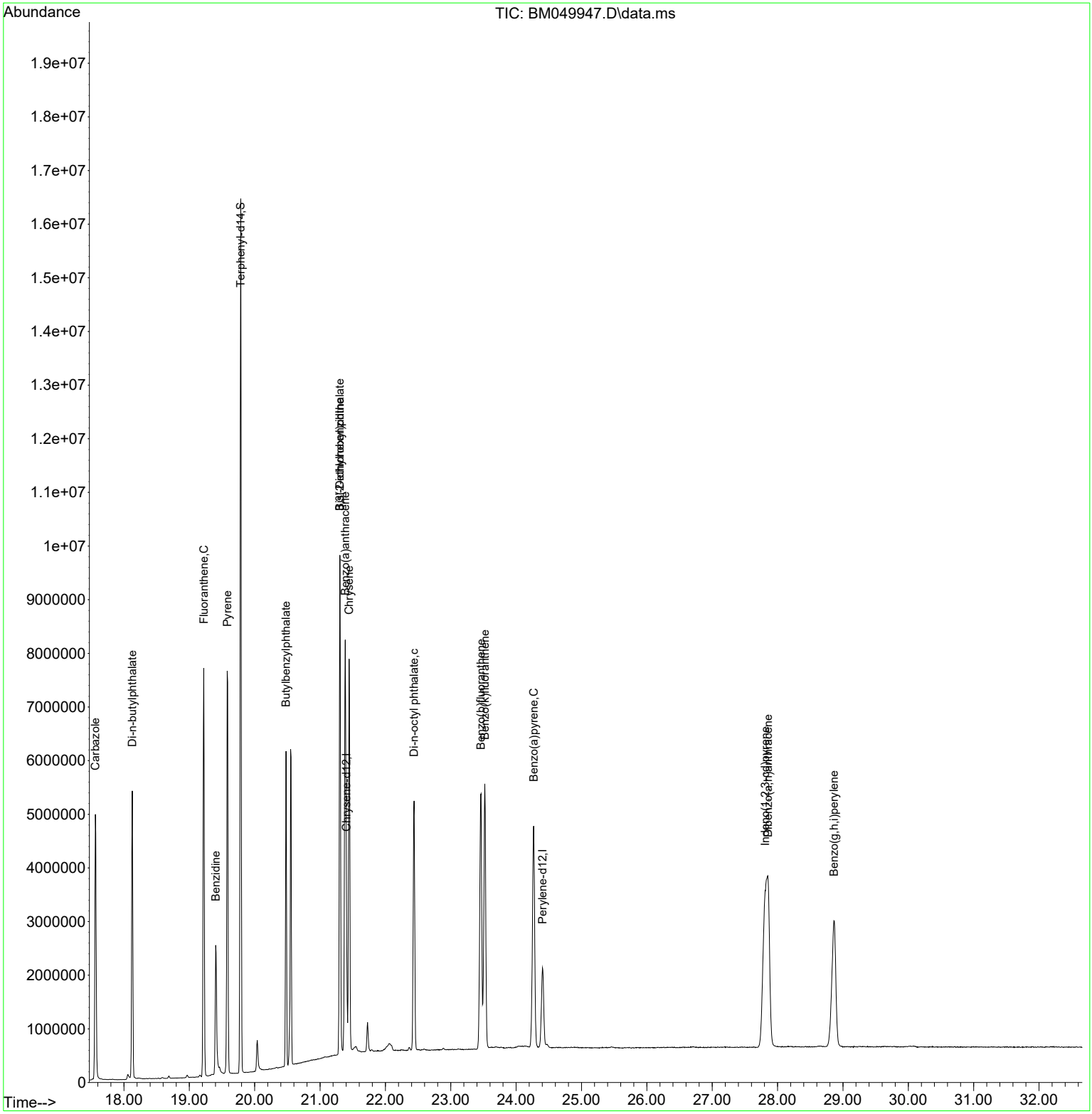
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049861.D
Acq On : 09 Apr 2025 10:27
Operator : RC/JU
Sample : PB167521BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BS

Quant Time: Apr 10 01:10:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	336910	20.000	ng		0.00
21) Naphthalene-d8	10.569	136	1172193	20.000	ng		0.00
39) Acenaphthene-d10	14.421	164	730256	20.000	ng		0.00
64) Phenanthrene-d10	17.162	188	1422911	20.000	ng		0.00
76) Chrysene-d12	21.397	240	1400193	20.000	ng		0.00
86) Perylene-d12	24.391	264	1421398	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2359326	118.913	ng		0.00
7) Phenol-d6	6.951	99	2904820	117.673	ng		0.00
23) Nitrobenzene-d5	8.933	82	1673050	79.479	ng		0.00
42) 2,4,6-Tribromophenol	15.909	330	1380194	129.939	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	4447030	82.577	ng		0.00
79) Terphenyl-d14	19.786	244	7050422	94.364	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.257	88	262686	32.148	ng		99
3) Pyridine	3.657	79	736378	34.301	ng		99
4) n-Nitrosodimethylamine	3.563	42	321708	39.377	ng		98
6) Aniline	7.104	93	786603	37.187	ng		100
8) 2-Chlorophenol	7.345	128	846424	41.628	ng		99
9) Benzaldehyde	6.916	77	452619	35.730	ng		98
10) Phenol	6.981	94	1015187	42.142	ng		98
11) bis(2-Chloroethyl)ether	7.198	93	781591	41.374	ng		99
12) 1,3-Dichlorobenzene	7.669	146	976490	40.621	ng		99
13) 1,4-Dichlorobenzene	7.810	146	989229	40.897	ng		99
14) 1,2-Dichlorobenzene	8.128	146	941895	41.342	ng		100
15) Benzyl Alcohol	8.016	79	656468	42.231	ng		100
16) 2,2'-oxybis(1-Chloropr...	8.304	45	909970	43.218	ng		99
17) 2-Methylphenol	8.222	107	653053	43.991	ng		98
18) Hexachloroethane	8.857	117	345101	41.009	ng		98
19) n-Nitroso-di-n-propyla...	8.586	70	585502	42.824	ng		98
20) 3+4-Methylphenols	8.551	107	881759	43.568	ng		99
22) Acetophenone	8.598	105	1168530	41.018	ng	#	99
24) Nitrobenzene	8.975	77	821968	40.552	ng		98
25) Isophorone	9.504	82	1536740	43.579	ng		99
26) 2-Nitrophenol	9.686	139	430155	40.040	ng		99
27) 2,4-Dimethylphenol	9.751	122	738065	60.621	ng		99
28) bis(2-Chloroethoxy)met...	9.980	93	981482	41.574	ng		99
29) 2,4-Dichlorophenol	10.222	162	842978	41.653	ng		99
30) 1,2,4-Trichlorobenzene	10.433	180	943265	40.289	ng		99
31) Naphthalene	10.622	128	2371128	39.367	ng		99
32) Benzoic acid	9.886	122	519818	36.856	ng		97
33) 4-Chloroaniline	10.727	127	451143	21.212	ng		98
34) Hexachlorobutadiene	10.910	225	596021	41.155	ng		99
35) Caprolactam	11.510	113	229193	39.485	ng		96
36) 4-Chloro-3-methylphenol	11.863	107	741890	41.849	ng		99
37) 2-Methylnaphthalene	12.233	142	1561901	36.805	ng		100
38) 1-Methylnaphthalene	12.457	142	1638645	39.635	ng		99
40) 1,2,4,5-Tetrachloroben...	12.610	216	1082730	42.381	ng		98
41) Hexachlorocyclopentadiene	12.592	237	1584026	176.945	ng		99
43) 2,4,6-Trichlorophenol	12.851	196	701162	43.130	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049861.D
Acq On : 09 Apr 2025 10:27
Operator : RC/JU
Sample : PB167521BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BS

Quant Time: Apr 10 01:10:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

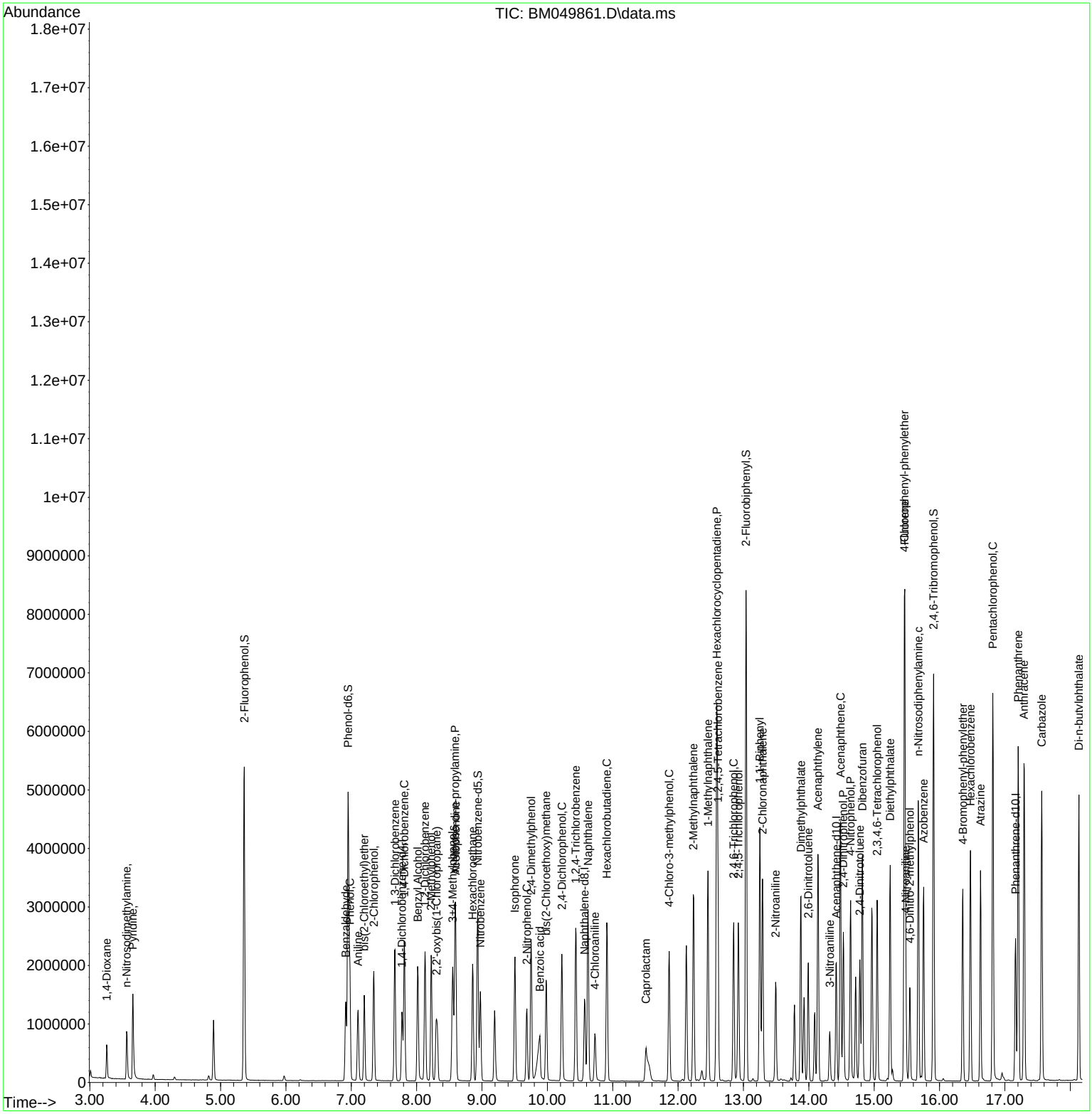
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.921	196	762647	43.169	ng	100
46) 1,1'-Biphenyl	13.251	154	2258251	41.600	ng	99
47) 2-Chloronaphthalene	13.292	162	1799659	42.179	ng	99
48) 2-Nitroaniline	13.492	65	431984	43.764	ng	96
49) Acenaphthylene	14.139	152	2838072	45.664	ng	100
50) Dimethylphthalate	13.880	163	2167102	42.064	ng	100
51) 2,6-Dinitrotoluene	13.992	165	468618	43.415	ng	96
52) Acenaphthene	14.486	154	1650214	41.742	ng	99
53) 3-Nitroaniline	14.321	138	231391	22.180	ng	98
54) 2,4-Dinitrophenol	14.527	184	627402	80.241	ng	97
55) Dibenzofuran	14.821	168	2688052	40.674	ng	99
56) 4-Nitrophenol	14.639	139	859247	92.427	ng	100
57) 2,4-Dinitrotoluene	14.780	165	659596	45.806	ng	98
58) Fluorene	15.468	166	2242323	42.685	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	651304	42.062	ng	99
60) Diethylphthalate	15.245	149	2033089	41.151	ng	99
61) 4-Chlorophenyl-phenyle...	15.462	204	1214951	43.138	ng	100
62) 4-Nitroaniline	15.486	138	448934	41.612	ng	97
63) Azobenzene	15.757	77	1748674	41.341	ng	98
65) 4,6-Dinitro-2-methylph...	15.545	198	390616	43.564	ng	99
66) n-Nitrosodiphenylamine	15.674	169	1888370	44.346	ng	100
67) 4-Bromophenyl-phenylether	16.356	248	716854	43.398	ng	97
68) Hexachlorobenzene	16.474	284	829113	43.760	ng	98
69) Atrazine	16.627	200	686882	62.213	ng	99
70) Pentachlorophenol	16.815	266	1213366	86.985	ng	99
71) Phenanthrene	17.203	178	3414386	43.769	ng	100
72) Anthracene	17.292	178	3489185	45.387	ng	99
73) Carbazole	17.562	167	3162399	43.674	ng	99
74) Di-n-butylphthalate	18.133	149	3486809	41.808	ng	99
75) Fluoranthene	19.221	202	4035546	42.074	ng	99
77) Benzidine	19.403	184	1680751	90.482	ng	100
78) Pyrene	19.580	202	4223716	43.770	ng	100
80) Butylbenzylphthalate	20.486	149	1532691	42.270	ng	97
81) Benzo(a)anthracene	21.380	228	4096069	44.017	ng	100
82) 3,3'-Dichlorobenzidine	21.303	252	825078	23.478	ng	100
83) Chrysene	21.444	228	3809504	43.060	ng	100
84) Bis(2-ethylhexyl)phtha...	21.309	149	2204910	41.737	ng	99
85) Di-n-octyl phthalate	22.438	149	3700122	40.036	ng	100
87) Indeno(1,2,3-cd)pyrene	27.779	276	4713585	44.488	ng	99
88) Benzo(b)fluoranthene	23.450	252	3803665	41.900	ng	100
89) Benzo(k)fluoranthene	23.515	252	3915062	44.504	ng	100
90) Benzo(a)pyrene	24.256	252	3700670	46.391	ng	99
91) Dibenzo(a,h)anthracene	27.832	278	3840955	44.011	ng	99
92) Benzo(g,h,i)perylene	28.832	276	3776735	42.349	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049861.D
Acq On : 09 Apr 2025 10:27
Operator : RC/JU
Sample : PB167521BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BS

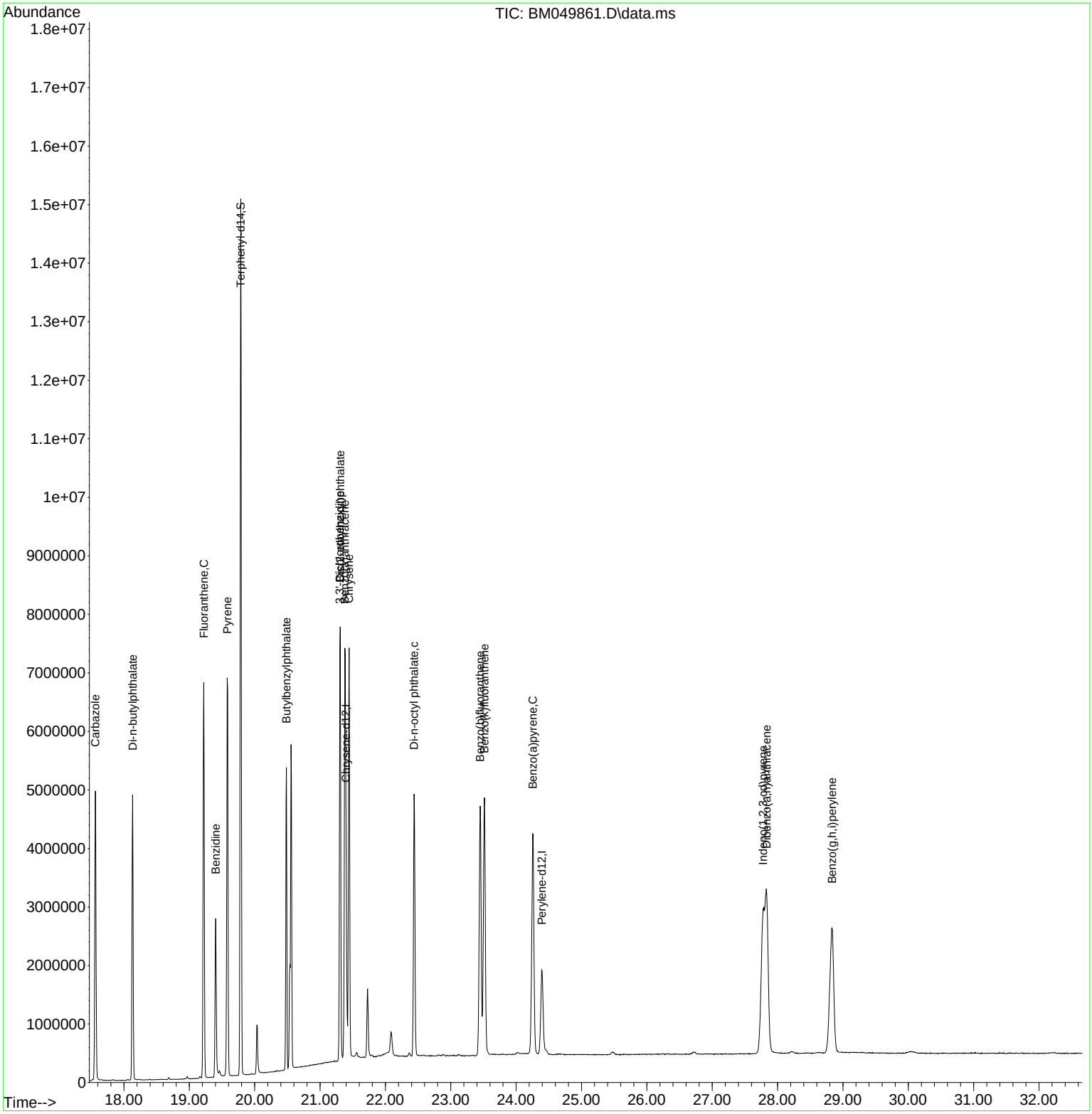
Quant Time: Apr 10 01:10:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049861.D
Acq On : 09 Apr 2025 10:27
Operator : RC/JU
Sample : PB167521BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BS

Quant Time: Apr 10 01:10:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049862.D
Acq On : 09 Apr 2025 11:06
Operator : RC/JU
Sample : PB167521BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BSD

Quant Time: Apr 10 01:11:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	335066	20.000	ng		0.00
21) Naphthalene-d8	10.569	136	1150025	20.000	ng		0.00
39) Acenaphthene-d10	14.415	164	735598	20.000	ng		0.00
64) Phenanthrene-d10	17.162	188	1446565	20.000	ng		0.00
76) Chrysene-d12	21.397	240	1438522	20.000	ng		0.00
86) Perylene-d12	24.391	264	1424302	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2462350	124.789	ng		0.00
7) Phenol-d6	6.951	99	3004228	122.370	ng		0.00
23) Nitrobenzene-d5	8.933	82	1745095	84.499	ng		0.00
42) 2,4,6-Tribromophenol	15.909	330	1453370	135.835	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	4580069	84.430	ng		0.00
79) Terphenyl-d14	19.786	244	7567987	98.593	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.257	88	289952	35.680	ng		99
3) Pyridine	3.657	79	810865	37.978	ng		98
4) n-Nitrosodimethylamine	3.563	42	341143	41.985	ng		96
6) Aniline	7.104	93	910625	43.288	ng		99
8) 2-Chlorophenol	7.345	128	896976	44.357	ng		99
9) Benzaldehyde	6.916	77	471360	37.414	ng		97
10) Phenol	6.981	94	1070288	44.674	ng		98
11) bis(2-Chloroethyl)ether	7.198	93	824742	43.899	ng		98
12) 1,3-Dichlorobenzene	7.669	146	1045388	43.726	ng		99
13) 1,4-Dichlorobenzene	7.810	146	1050000	43.648	ng		99
14) 1,2-Dichlorobenzene	8.128	146	1011408	44.638	ng		100
15) Benzyl Alcohol	8.016	79	696410	45.047	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.304	45	951860	45.456	ng		99
17) 2-Methylphenol	8.222	107	687637	46.576	ng		98
18) Hexachloroethane	8.857	117	363531	43.436	ng		97
19) n-Nitroso-di-n-propyla...	8.586	70	599988	44.125	ng		100
20) 3+4-Methylphenols	8.551	107	919992	45.707	ng		98
22) Acetophenone	8.598	105	1211222	43.337	ng	#	98
24) Nitrobenzene	8.975	77	866706	43.583	ng		99
25) Isophorone	9.504	82	1614808	46.675	ng		98
26) 2-Nitrophenol	9.686	139	457262	43.383	ng		99
27) 2,4-Dimethylphenol	9.751	122	763120	63.887	ng		98
28) bis(2-Chloroethoxy)met...	9.980	93	1026510	44.319	ng		99
29) 2,4-Dichlorophenol	10.222	162	879670	44.304	ng		99
30) 1,2,4-Trichlorobenzene	10.433	180	1007214	43.849	ng		100
31) Naphthalene	10.622	128	2487681	42.098	ng		99
32) Benzoic acid	9.886	122	500509	36.330	ng		99
33) 4-Chloroaniline	10.727	127	532920	25.540	ng		97
34) Hexachlorobutadiene	10.910	225	629806	44.327	ng		98
35) Caprolactam	11.510	113	240290	42.195	ng		93
36) 4-Chloro-3-methylphenol	11.863	107	759543	43.671	ng		99
37) 2-Methylnaphthalene	12.233	142	1628063	39.104	ng		99
38) 1-Methylnaphthalene	12.457	142	1708396	42.118	ng		99
40) 1,2,4,5-Tetrachloroben...	12.610	216	1141788	44.368	ng		99
41) Hexachlorocyclopentadiene	12.592	237	1686714	187.047	ng		99
43) 2,4,6-Trichlorophenol	12.851	196	727525	44.427	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049862.D
Acq On : 09 Apr 2025 11:06
Operator : RC/JU
Sample : PB167521BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BSD

Quant Time: Apr 10 01:11:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

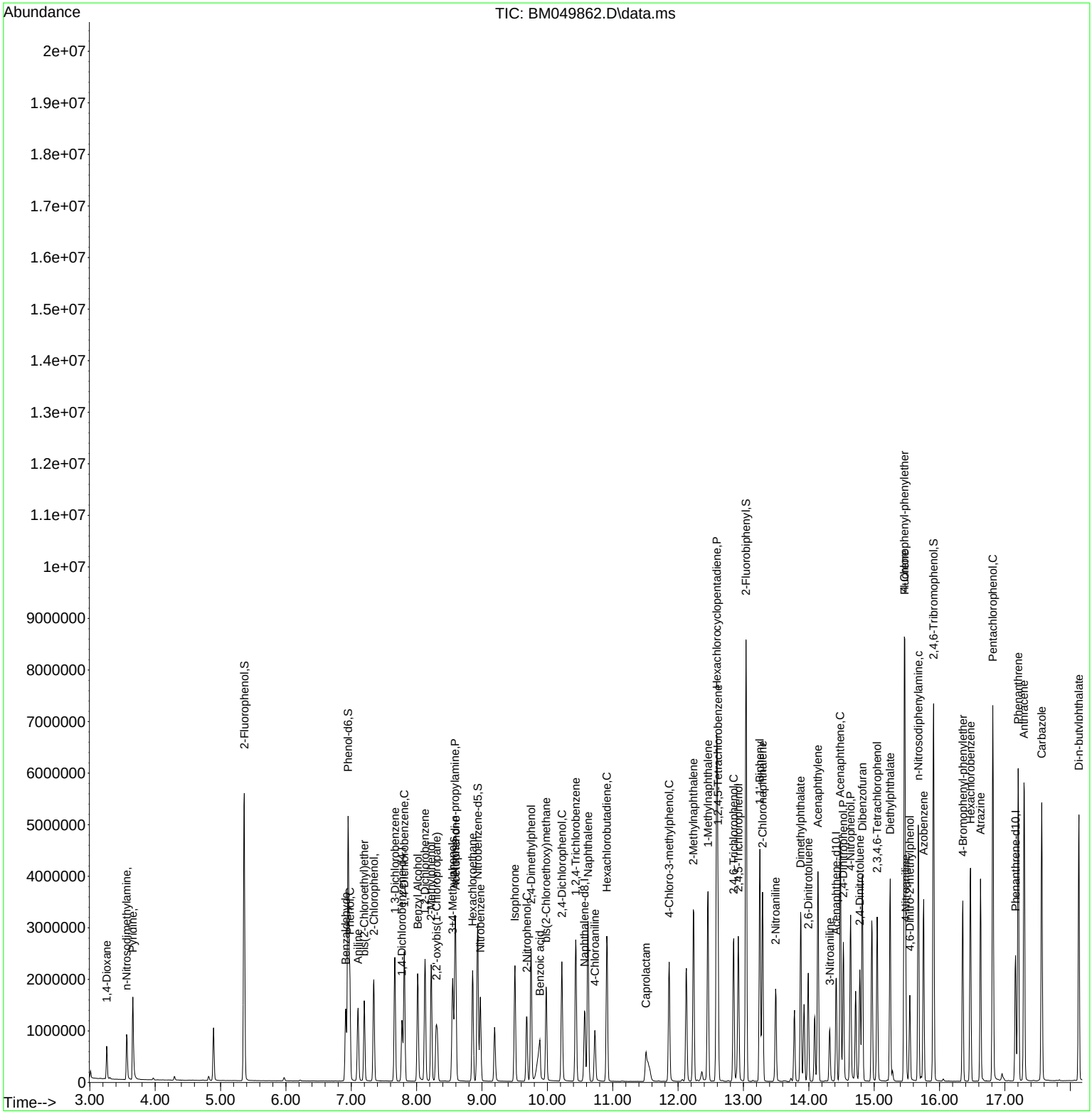
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.921	196	801550	45.042	ng	98
46) 1,1'-Biphenyl	13.251	154	2358457	43.130	ng	100
47) 2-Chloronaphthalene	13.292	162	1874993	43.626	ng	99
48) 2-Nitroaniline	13.492	65	456388	45.900	ng	98
49) Acenaphthylene	14.139	152	2942784	47.005	ng	100
50) Dimethylphthalate	13.874	163	2272895	43.798	ng	99
51) 2,6-Dinitrotoluene	13.992	165	493805	45.417	ng	99
52) Acenaphthene	14.480	154	1709875	42.938	ng	99
53) 3-Nitroaniline	14.321	138	278294	26.483	ng	98
54) 2,4-Dinitrophenol	14.527	184	670209	84.656	ng	97
55) Dibenzofuran	14.821	168	2780257	41.763	ng	98
56) 4-Nitrophenol	14.639	139	932568	99.585	ng	100
57) 2,4-Dinitrotoluene	14.780	165	697060	48.056	ng	98
58) Fluorene	15.468	166	2353879	44.483	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	682132	43.733	ng	99
60) Diethylphthalate	15.245	149	2135751	42.915	ng	99
61) 4-Chlorophenyl-phenyle...	15.462	204	1268642	44.717	ng	99
62) 4-Nitroaniline	15.486	138	485055	44.634	ng	99
63) Azobenzene	15.757	77	1821372	42.747	ng	98
65) 4,6-Dinitro-2-methylph...	15.545	198	414097	45.427	ng	98
66) n-Nitrosodiphenylamine	15.674	169	1981248	45.767	ng	100
67) 4-Bromophenyl-phenylether	16.356	248	754789	44.947	ng	96
68) Hexachlorobenzene	16.474	284	878488	45.607	ng	99
69) Atrazine	16.627	200	740849	66.004	ng	99
70) Pentachlorophenol	16.815	266	1304253	91.972	ng	100
71) Phenanthrene	17.203	178	3640568	45.905	ng	100
72) Anthracene	17.292	178	3723016	47.636	ng	100
73) Carbazole	17.562	167	3395893	46.132	ng	100
74) Di-n-butylphthalate	18.133	149	3742613	44.141	ng	100
75) Fluoranthene	19.221	202	4385651	44.976	ng	99
77) Benzidine	19.403	184	2008454	105.243	ng	100
78) Pyrene	19.580	202	4546344	45.858	ng	99
80) Butylbenzylphthalate	20.480	149	1651961	44.345	ng	99
81) Benzo(a)anthracene	21.380	228	4441714	46.460	ng	99
82) 3,3'-Dichlorobenzidine	21.303	252	934995	25.897	ng	100
83) Chrysene	21.444	228	4103005	45.142	ng	99
84) Bis(2-ethylhexyl)phtha...	21.309	149	2393538	44.100	ng	99
85) Di-n-octyl phthalate	22.438	149	4015047	42.286	ng	100
87) Indeno(1,2,3-cd)pyrene	27.773	276	4976589	46.874	ng	99
88) Benzo(b)fluoranthene	23.450	252	4090414	44.967	ng	99
89) Benzo(k)fluoranthene	23.515	252	4161896	47.213	ng	99
90) Benzo(a)pyrene	24.256	252	3924916	49.102	ng	99
91) Dibenzo(a,h)anthracene	27.832	278	4042770	46.229	ng	99
92) Benzo(g,h,i)perylene	28.832	276	3959871	44.312	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049862.D
Acq On : 09 Apr 2025 11:06
Operator : RC/JU
Sample : PB167521BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BSD

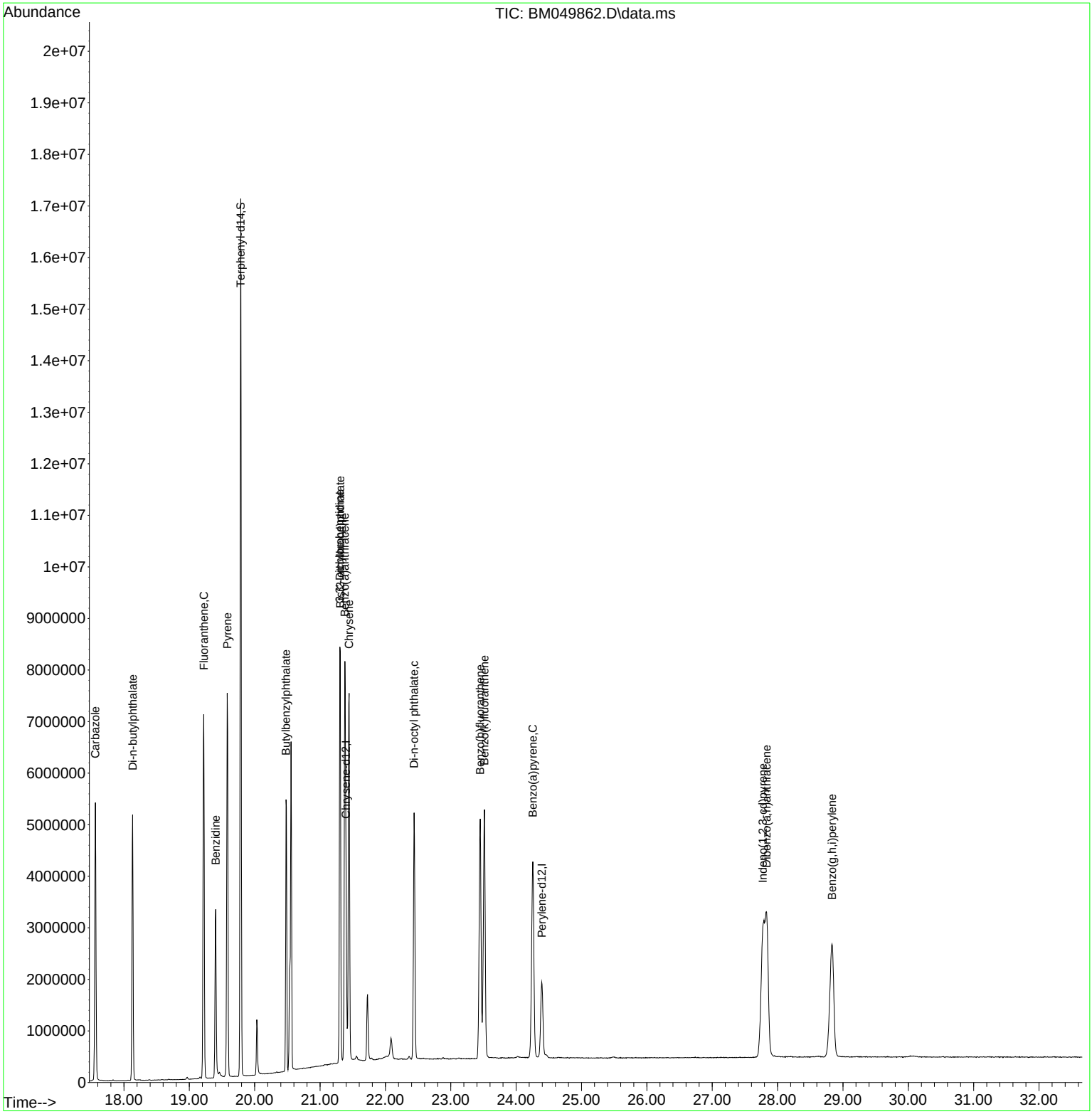
Quant Time: Apr 10 01:11:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049862.D
Acq On : 09 Apr 2025 11:06
Operator : RC/JU
Sample : PB167521BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167521BSD

Quant Time: Apr 10 01:11:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	298114	20.000	ng		0.00
21) Naphthalene-d8	10.569	136	1050152	20.000	ng		0.00
39) Acenaphthene-d10	14.421	164	691142	20.000	ng		0.00
64) Phenanthrene-d10	17.162	188	1385053	20.000	ng		0.00
76) Chrysene-d12	21.398	240	1462184	20.000	ng		0.00
86) Perylene-d12	24.391	264	1514539	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2155451	122.776	ng		0.00
7) Phenol-d6	6.951	99	2724158	124.716	ng		0.00
23) Nitrobenzene-d5	8.934	82	1562799	82.869	ng		0.00
42) 2,4,6-Tribromophenol	15.910	330	1354417	134.729	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	4162286	81.663	ng		0.00
79) Terphenyl-d14	19.786	244	6978001	89.436	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.257	88	309728	42.838	ng		99
3) Pyridine	3.657	79	835012	43.957	ng		99
4) n-Nitrosodimethylamine	3.563	42	327410	45.290	ng		97
6) Aniline	7.104	93	421157	22.502	ng		99
8) 2-Chlorophenol	7.345	128	863377	47.988	ng		99
9) Benzaldehyde	6.916	77	478135	42.656	ng		98
10) Phenol	6.975	94	1072705	50.325	ng		99
11) bis(2-Chloroethyl)ether	7.198	93	779707	46.646	ng		98
12) 1,3-Dichlorobenzene	7.663	146	989476	46.518	ng		98
13) 1,4-Dichlorobenzene	7.810	146	994756	46.478	ng		100
14) 1,2-Dichlorobenzene	8.128	146	951142	47.181	ng		99
15) Benzyl Alcohol	8.016	79	687559	49.988	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.304	45	912146	48.959	ng		99
17) 2-Methylphenol	8.222	107	671680	51.134	ng		98
18) Hexachloroethane	8.857	117	347778	46.705	ng		99
19) n-Nitroso-di-n-propyla...	8.581	70	585438	48.392	ng		99
20) 3+4-Methylphenols	8.551	107	921924	51.480	ng		99
22) Acetophenone	8.598	105	1181375	46.289	ng	#	99
24) Nitrobenzene	8.975	77	842536	46.397	ng		98
25) Isophorone	9.504	82	1587310	50.244	ng		99
26) 2-Nitrophenol	9.686	139	447885	46.535	ng		99
27) 2,4-Dimethylphenol	9.751	122	756789	69.382	ng		99
28) bis(2-Chloroethoxy)met...	9.981	93	998019	47.187	ng		99
29) 2,4-Dichlorophenol	10.222	162	867930	47.870	ng		98
30) 1,2,4-Trichlorobenzene	10.434	180	953445	45.456	ng		99
31) Naphthalene	10.622	128	2418053	44.811	ng		99
32) Benzoic acid	9.886	122	566179	42.966	ng		98
33) 4-Chloroaniline	10.728	127	212114	11.132	ng		99
34) Hexachlorobutadiene	10.910	225	592511	45.668	ng		99
35) Caprolactam	11.510	113	244776	47.070	ng		95
36) 4-Chloro-3-methylphenol	11.863	107	780324	49.133	ng		99
37) 2-Methylnaphthalene	12.233	142	1605733	42.235	ng		100
38) 1-Methylnaphthalene	12.457	142	1688879	45.597	ng		100
40) 1,2,4,5-Tetrachloroben...	12.610	216	1105688	45.728	ng		99
41) Hexachlorocyclopentadiene	12.592	237	1498293	176.840	ng		100
43) 2,4,6-Trichlorophenol	12.851	196	737476	47.931	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

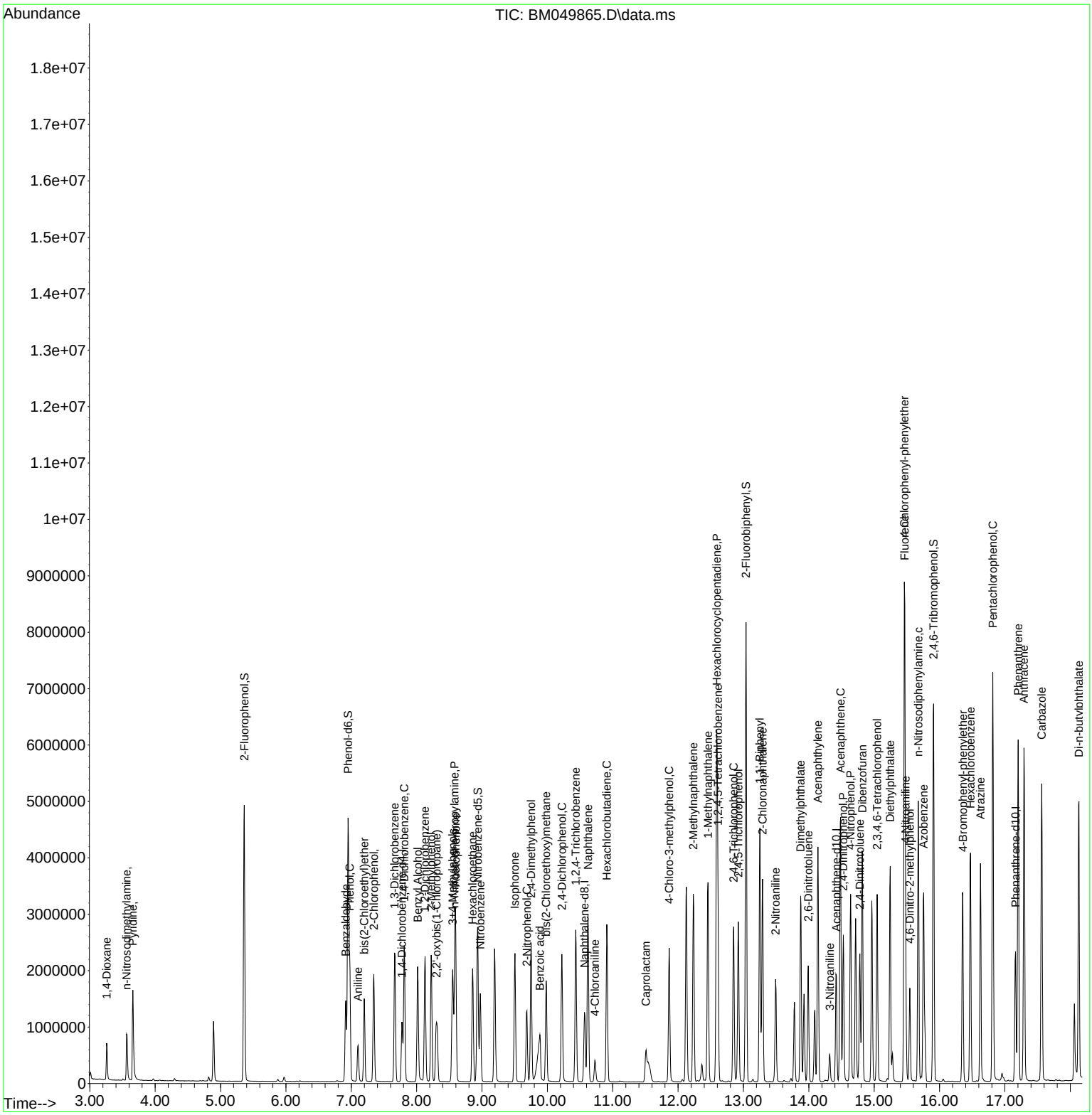
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.922	196	799432	47.812	ng	99
46) 1,1'-Biphenyl	13.251	154	2353870	45.815	ng	100
47) 2-Chloronaphthalene	13.292	162	1863914	46.157	ng	99
48) 2-Nitroaniline	13.492	65	458167	49.043	ng	98
49) Acenaphthylene	14.139	152	2960303	50.326	ng	99
50) Dimethylphthalate	13.874	163	2262384	46.399	ng	99
51) 2,6-Dinitrotoluene	13.992	165	490899	48.053	ng	98
52) Acenaphthene	14.486	154	1735053	46.372	ng	99
53) 3-Nitroaniline	14.321	138	132704	13.440	ng	100
54) 2,4-Dinitrophenol	14.527	184	621378	83.632	ng	98
55) Dibenzofuran	14.821	168	2807021	44.878	ng	98
56) 4-Nitrophenol	14.639	139	930802	105.790	ng	100
57) 2,4-Dinitrotoluene	14.780	165	697374	51.170	ng	97
58) Fluorene	15.468	166	2361809	47.504	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	689387	47.041	ng	99
60) Diethylphthalate	15.245	149	2130155	45.556	ng	99
61) 4-Chlorophenyl-phenyle...	15.463	204	1275390	47.847	ng	99
62) 4-Nitroaniline	15.480	138	451987	44.266	ng	99
63) Azobenzene	15.757	77	2042909	51.031	ng	98
65) 4,6-Dinitro-2-methylph...	15.545	198	401583	46.011	ng	99
66) n-Nitrosodiphenylamine	15.674	169	1992233	48.064	ng	100
67) 4-Bromophenyl-phenylether	16.357	248	755272	46.973	ng	96
68) Hexachlorobenzene	16.474	284	874487	47.416	ng	98
69) Atrazine	16.627	200	726702	67.619	ng	97
70) Pentachlorophenol	16.815	266	1316399	96.951	ng	99
71) Phenanthrene	17.204	178	3664770	48.263	ng	100
72) Anthracene	17.292	178	3737841	49.950	ng	100
73) Carbazole	17.562	167	3424599	48.588	ng	100
74) Di-n-butylphthalate	18.133	149	3797075	46.773	ng	99
75) Fluoranthene	19.221	202	4521849	48.432	ng	98
77) Benzidine	19.404	184	1817127	93.676	ng	100
78) Pyrene	19.580	202	4732548	46.963	ng	99
80) Butylbenzylphthalate	20.480	149	1682886	44.444	ng	99
81) Benzo(a)anthracene	21.380	228	4823789	49.640	ng	99
82) 3,3'-Dichlorobenzidine	21.303	252	545235	14.857	ng	100
83) Chrysene	21.445	228	4624441	50.056	ng	99
84) Bis(2-ethylhexyl)phtha...	21.309	149	2462859	44.643	ng	99
85) Di-n-octyl phthalate	22.439	149	4144598	42.944	ng	100
87) Indeno(1,2,3-cd)pyrene	27.779	276	5555016	49.205	ng	99
88) Benzo(b)fluoranthene	23.450	252	4850380	50.145	ng	99
89) Benzo(k)fluoranthene	23.515	252	4897679	52.250	ng	100
90) Benzo(a)pyrene	24.256	252	4441609	52.256	ng	99
91) Dibenzo(a,h)anthracene	27.832	278	4529739	48.712	ng	100
92) Benzo(g,h,i)perylene	28.832	276	4410499	46.414	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

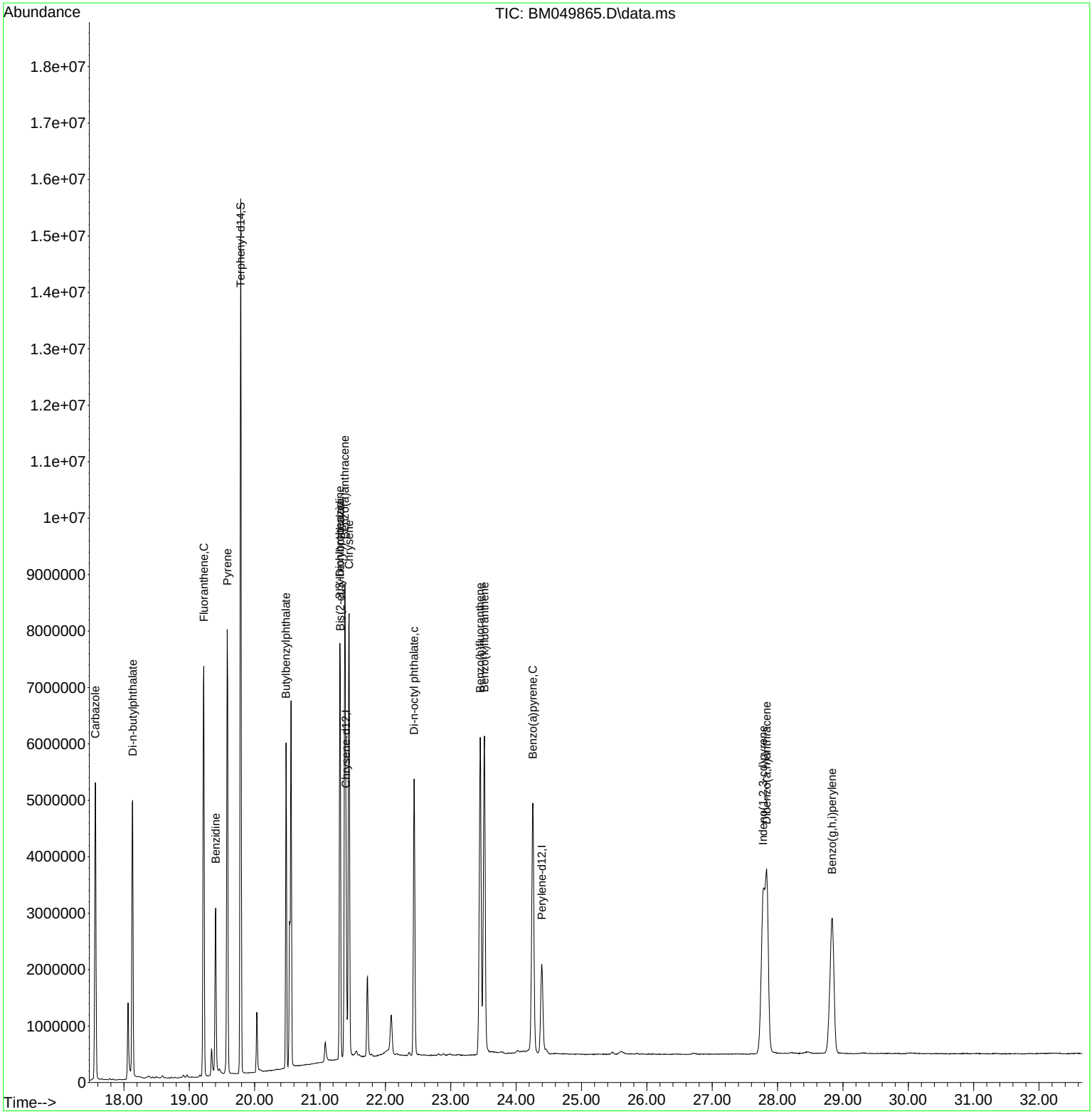
Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	285351	20.000	ng		0.00
21) Naphthalene-d8	10.569	136	1005761	20.000	ng		0.00
39) Acenaphthene-d10	14.421	164	663787	20.000	ng		0.00
64) Phenanthrene-d10	17.162	188	1342339	20.000	ng		0.00
76) Chrysene-d12	21.397	240	1401873	20.000	ng		0.00
86) Perylene-d12	24.391	264	1461448	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2136954	127.167	ng		0.00
7) Phenol-d6	6.951	99	2724008	130.287	ng		0.00
23) Nitrobenzene-d5	8.933	82	1557737	86.246	ng		0.00
42) 2,4,6-Tribromophenol	15.909	330	1357374	140.587	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	4170498	85.197	ng		0.00
79) Terphenyl-d14	19.786	244	6980310	93.314	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.257	88	306237	44.250	ng		99
3) Pyridine	3.657	79	824020	45.318	ng		100
4) n-Nitrosodimethylamine	3.563	42	324177	46.848	ng		97
6) Aniline	7.104	93	420957	23.497	ng		99
8) 2-Chlorophenol	7.345	128	864396	50.194	ng		98
9) Benzaldehyde	6.916	77	477912	44.543	ng		98
10) Phenol	6.975	94	1066445	52.269	ng		99
11) bis(2-Chloroethyl)ether	7.198	93	776399	48.525	ng		100
12) 1,3-Dichlorobenzene	7.663	146	980458	48.155	ng		99
13) 1,4-Dichlorobenzene	7.810	146	992255	48.434	ng		98
14) 1,2-Dichlorobenzene	8.128	146	950955	49.282	ng		99
15) Benzyl Alcohol	8.016	79	693613	52.683	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.298	45	901093	50.529	ng		99
17) 2-Methylphenol	8.222	107	672939	53.521	ng		99
18) Hexachloroethane	8.857	117	341526	47.917	ng		98
19) n-Nitroso-di-n-propyla...	8.581	70	582254	50.282	ng		99
20) 3+4-Methylphenols	8.551	107	917509	53.525	ng		99
22) Acetophenone	8.598	105	1167291	47.755	ng	#	99
24) Nitrobenzene	8.975	77	835602	48.046	ng		98
25) Isophorone	9.504	82	1576133	52.092	ng		99
26) 2-Nitrophenol	9.686	139	445919	48.376	ng		99
27) 2,4-Dimethylphenol	9.751	122	761170	72.864	ng		98
28) bis(2-Chloroethoxy)met...	9.980	93	996102	49.175	ng		99
29) 2,4-Dichlorophenol	10.222	162	874134	50.340	ng		99
30) 1,2,4-Trichlorobenzene	10.433	180	956323	47.606	ng		100
31) Naphthalene	10.622	128	2397631	46.394	ng		99
32) Benzoic acid	9.886	122	566036	44.477	ng		98
33) 4-Chloroaniline	10.727	127	220350	12.075	ng		99
34) Hexachlorobutadiene	10.910	225	588579	47.367	ng		98
35) Caprolactam	11.510	113	247722	49.739	ng		99
36) 4-Chloro-3-methylphenol	11.863	107	776696	51.063	ng		99
37) 2-Methylnaphthalene	12.233	142	1595016	43.805	ng		99
38) 1-Methylnaphthalene	12.457	142	1678627	47.320	ng		100
40) 1,2,4,5-Tetrachloroben...	12.610	216	1117353	48.115	ng		98
41) Hexachlorocyclopentadiene	12.592	237	1486422	182.669	ng		99
43) 2,4,6-Trichlorophenol	12.851	196	734045	49.674	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

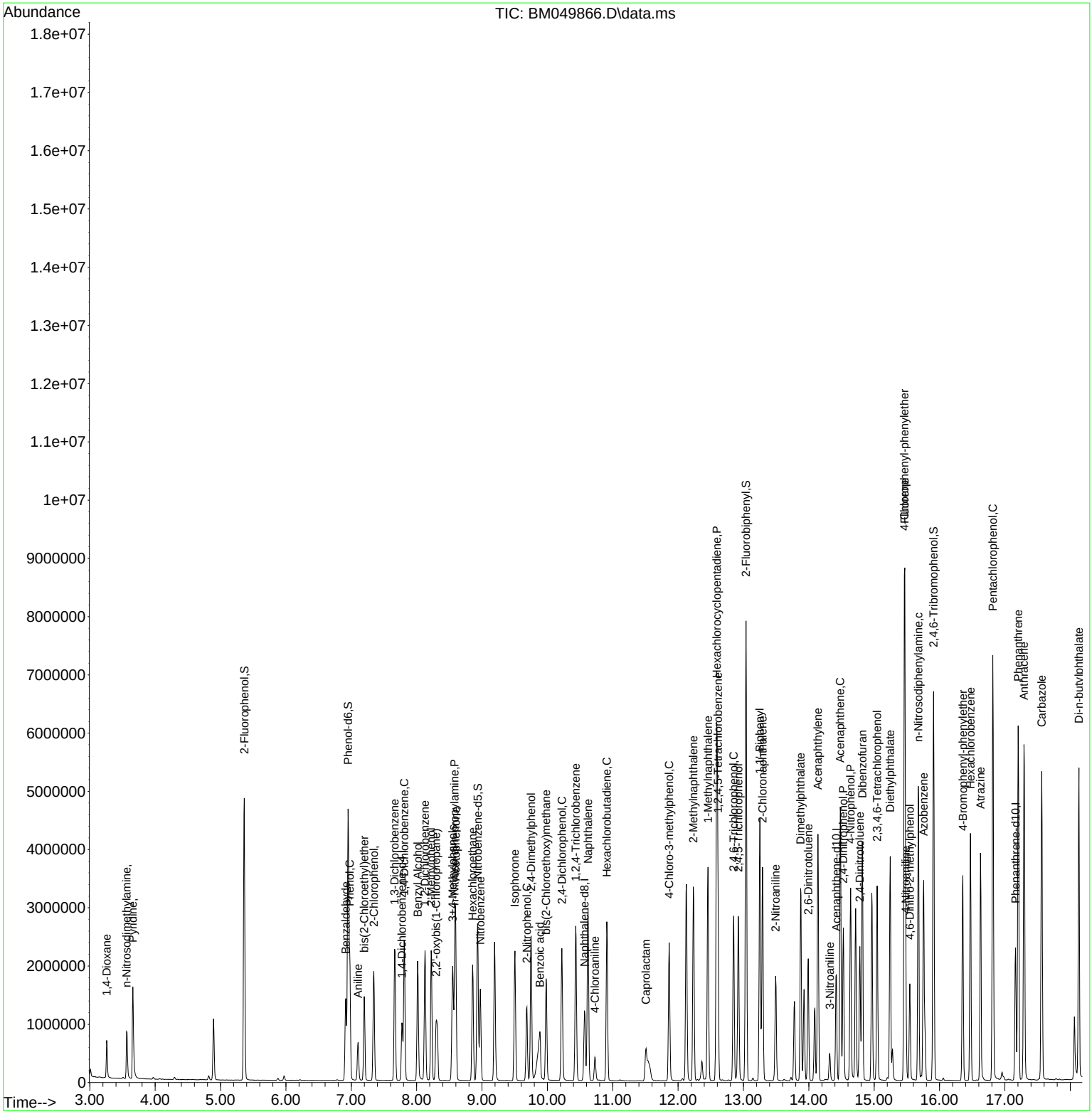
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.921	196	804889	50.122	ng	99
46) 1,1'-Biphenyl	13.251	154	2349677	47.618	ng	100
47) 2-Chloronaphthalene	13.292	162	1871890	48.265	ng	99
48) 2-Nitroaniline	13.492	65	456335	50.860	ng	98
49) Acenaphthylene	14.139	152	2972105	52.609	ng	100
50) Dimethylphthalate	13.874	163	2283140	48.754	ng	99
51) 2,6-Dinitrotoluene	13.992	165	492479	50.195	ng	99
52) Acenaphthene	14.480	154	1724643	47.994	ng	99
53) 3-Nitroaniline	14.321	138	130642	13.777	ng	98
54) 2,4-Dinitrophenol	14.527	184	629408	87.809	ng	98
55) Dibenzofuran	14.821	168	2836442	47.217	ng	98
56) 4-Nitrophenol	14.639	139	934371	110.572	ng	99
57) 2,4-Dinitrotoluene	14.780	165	698694	53.380	ng	98
58) Fluorene	15.468	166	2375933	49.757	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	692400	49.194	ng	99
60) Diethylphthalate	15.245	149	2148314	47.838	ng	99
61) 4-Chlorophenyl-phenyle...	15.462	204	1280962	50.036	ng	99
62) 4-Nitroaniline	15.486	138	455783	46.478	ng	99
63) Azobenzene	15.757	77	2029859	52.794	ng	97
65) 4,6-Dinitro-2-methylph...	15.545	198	406755	48.087	ng	99
66) n-Nitrosodiphenylamine	15.674	169	1993763	49.632	ng	99
67) 4-Bromophenyl-phenylether	16.356	248	758871	48.699	ng	96
68) Hexachlorobenzene	16.474	284	874754	48.940	ng	98
69) Atrazine	16.627	200	737371	70.795	ng	99
70) Pentachlorophenol	16.815	266	1321712	100.440	ng	99
71) Phenanthrene	17.203	178	3676782	49.961	ng	100
72) Anthracene	17.292	178	3760847	51.857	ng	100
73) Carbazole	17.562	167	3446827	50.460	ng	100
74) Di-n-butylphthalate	18.133	149	3801949	48.323	ng	100
75) Fluoranthene	19.221	202	4538028	50.152	ng	99
77) Benzidine	19.403	184	1757189	94.484	ng	99
78) Pyrene	19.580	202	4707504	48.725	ng	99
80) Butylbenzylphthalate	20.480	149	1704963	46.964	ng	100
81) Benzo(a)anthracene	21.380	228	4791802	51.432	ng	100
82) 3,3'-Dichlorobenzidine	21.303	252	548354	15.585	ng	99
83) Chrysene	21.444	228	4591192	51.834	ng	99
84) Bis(2-ethylhexyl)phtha...	21.309	149	2464666	46.598	ng	99
85) Di-n-octyl phthalate	22.438	149	4181805	45.193	ng	100
87) Indeno(1,2,3-cd)pyrene	27.779	276	5591757	51.330	ng	99
88) Benzo(b)fluoranthene	23.450	252	4901336	52.512	ng	99
89) Benzo(k)fluoranthene	23.515	252	4863511	53.770	ng	100
90) Benzo(a)pyrene	24.256	252	4421640	53.910	ng	99
91) Dibenzo(a,h)anthracene	27.832	278	4528137	50.463	ng	100
92) Benzo(g,h,i)perylene	28.838	276	4423237	48.240	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

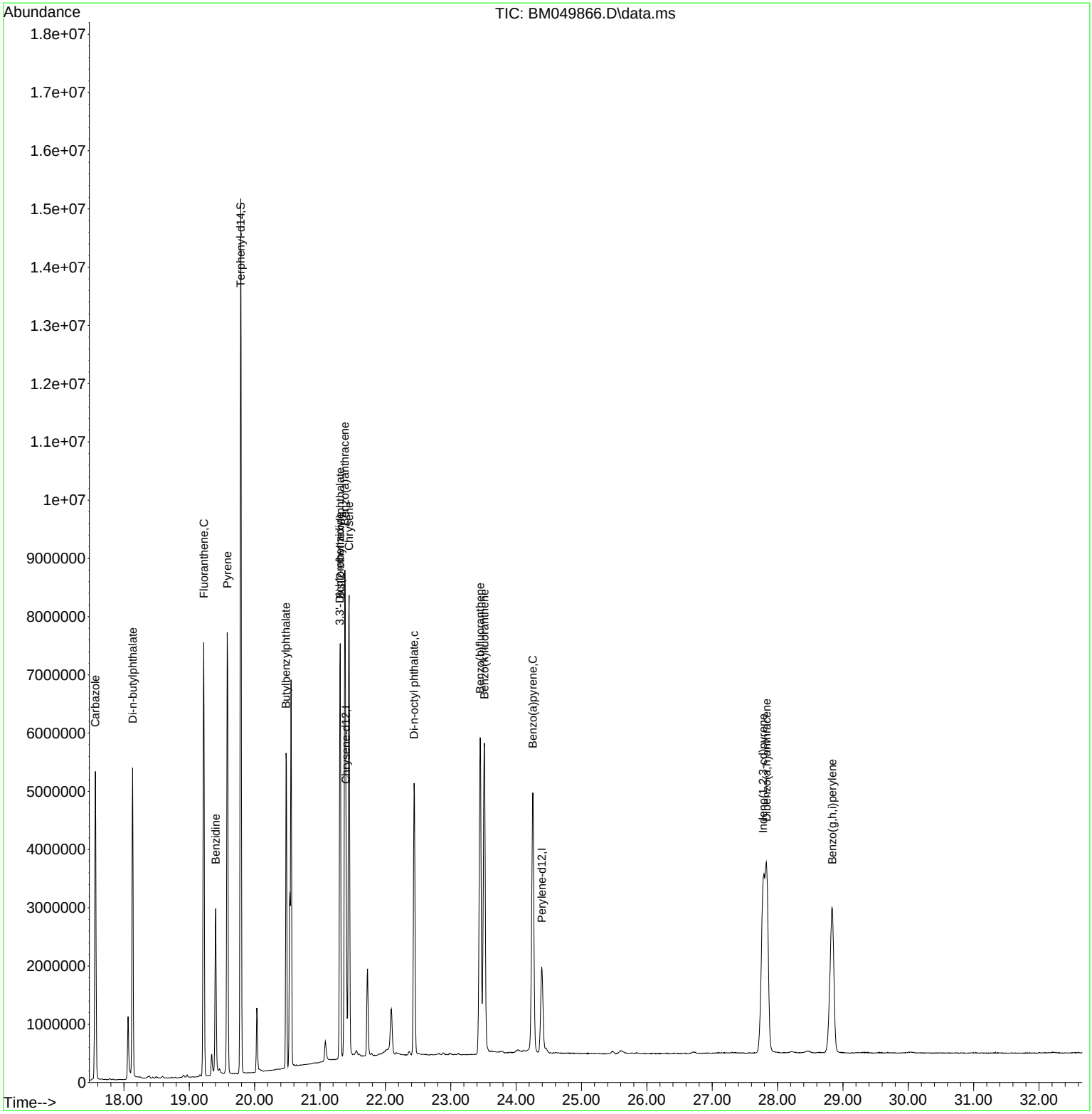
Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



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Manual Integration Report

Sequence:	BM040825	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM049849.D	Benzaldehyde	anahy	4/9/2025 10:32:06 AM	Jagrut	4/9/2025 4:46:22 PM	Peak Integrated by Software
SSTDICC010	BM049850.D	Benzoic acid	anahy	4/9/2025 10:32:44 AM	Jagrut	4/9/2025 4:46:25 PM	Peak Integrated by Software
SSTDICC060	BM049854.D	Pyridine	anahy	4/9/2025 10:33:20 AM	Jagrut	4/9/2025 4:46:27 PM	Peak Integrated by Software
SSTDICC080	BM049855.D	Pyridine	anahy	4/9/2025 10:34:03 AM	Jagrut	4/9/2025 4:46:30 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bm040925	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	bm041025	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	bm041625	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM049944.D	Benzoic acid	Rahul	4/17/2025 10:25:47 AM	Jagrut	4/17/2025 12:27:50 PM	Peak Integrated by Software
PB167509BS	BM049947.D	Benzoic acid	Rahul	4/17/2025 10:25:55 AM	Jagrut	4/17/2025 12:27:57 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BP031225	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024161.D	Benzaldehyde	anahy	3/13/2025 11:10:33 AM	Jagrut	3/13/2025 11:45:04 AM	Peak Integrated by Software
SSTDICC050	BP024165.D	Pyridine	anahy	3/13/2025 11:11:20 AM	Jagrut	3/13/2025 11:45:07 AM	Peak Integrated by Software
SSTDICC060	BP024166.D	Indeno(1,2,3-cd)pyrene	anahy	3/13/2025 11:38:58 AM	Jagrut	3/13/2025 11:45:09 AM	Peak Integrated by Software
SSTDICC060	BP024166.D	Pyridine	anahy	3/13/2025 11:38:58 AM	Jagrut	3/13/2025 11:45:09 AM	Peak Integrated by Software
SSTDICC080	BP024167.D	Pyridine	anahy	3/13/2025 11:39:57 AM	Jagrut	3/13/2025 11:45:11 AM	Peak Integrated by Software
SSTDICV040	BP024168.D	Benzo(g,h,i)perylene	anahy	3/13/2025 11:40:49 AM	Jagrut	3/13/2025 11:45:14 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BP040925	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP024228.D	Benzoic acid	anahy	4/10/2025 10:35:25 AM	Jagrut	4/10/2025 3:32:58 PM	Peak Integrated by Software
SSTDCCC040	BP024228.D	Indeno(1,2,3-cd)pyrene	anahy	4/10/2025 10:35:25 AM	Jagrut	4/10/2025 3:32:58 PM	Peak Integrated by Software
SSTDCCC040	BP024243.D	Benzo(g,h,i)perylene	anahy	4/10/2025 10:37:39 AM	Jagrut	4/10/2025 3:33:04 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bp041025	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1746-06	BP024253.D	Benzoic acid	anahy	4/11/2025 9:37:54 AM	Jagrut	4/11/2025 10:44:22 AM	Peak Integrated by Software

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040825

Review By	anahy	Review On	4/9/2025 10:38:14 AM		
Supervise By	Jagrut	Supervise On	4/9/2025 4:50:06 PM		
SubDirectory	BM040825	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049847.D	08 Apr 2025 12:55	RC/JU	Ok
2	SSTDICC2.5	BM049848.D	08 Apr 2025 13:35	RC/JU	Ok
3	SSTDICC005	BM049849.D	08 Apr 2025 14:14	RC/JU	Ok,M
4	SSTDICC010	BM049850.D	08 Apr 2025 14:53	RC/JU	Ok,M
5	SSTDICC020	BM049851.D	08 Apr 2025 15:32	RC/JU	Ok
6	SSTDICCC040	BM049852.D	08 Apr 2025 16:12	RC/JU	Ok
7	SSTDICC050	BM049853.D	08 Apr 2025 17:30	RC/JU	Ok
8	SSTDICC060	BM049854.D	08 Apr 2025 19:28	RC/JU	Ok,M
9	SSTDICC080	BM049855.D	08 Apr 2025 20:07	RC/JU	Ok,M
10	SSTDICV040	BM049856.D	08 Apr 2025 20:47	RC/JU	Ok
11	PB167474BL	BM049857.D	08 Apr 2025 21:26	RC/JU	Not Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040925

Review By	anahy	Review On	4/10/2025 10:38:09 AM		
Supervise By	Jagrut	Supervise On	4/10/2025 3:33:56 PM		
SubDirectory	BM040925	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049858.D	09 Apr 2025 08:30	RC/JU	Ok
2	SSTDCCC040	BM049859.D	09 Apr 2025 09:09	RC/JU	Ok
3	PB167521BL	BM049860.D	09 Apr 2025 09:48	RC/JU	Ok
4	PB167521BS	BM049861.D	09 Apr 2025 10:27	RC/JU	Ok
5	PB167521BSD	BM049862.D	09 Apr 2025 11:06	RC/JU	Ok
6	Q1740-01	BM049863.D	09 Apr 2025 11:50	RC/JU	Ok
7	Q1744-01	BM049864.D	09 Apr 2025 12:29	RC/JU	Ok
8	Q1744-01MS	BM049865.D	09 Apr 2025 13:08	RC/JU	Ok
9	Q1744-01MSD	BM049866.D	09 Apr 2025 13:47	RC/JU	Ok
10	Q1742-01	BM049867.D	09 Apr 2025 14:26	RC/JU	Ok,M
11	Q1746-03	BM049868.D	09 Apr 2025 15:05	RC/JU	Ok
12	Q1744-03	BM049869.D	09 Apr 2025 15:45	RC/JU	Ok
13	Q1712-01DL	BM049870.D	09 Apr 2025 16:24	RC/JU	Dilution
14	Q1712-01DL2	BM049871.D	09 Apr 2025 17:03	RC/JU	Ok,M
15	Q1743-01	BM049872.D	09 Apr 2025 17:42	RC/JU	Ok,M
16	Q1745-09	BM049873.D	09 Apr 2025 18:21	RC/JU	Ok,M
17	Q1739-01	BM049874.D	09 Apr 2025 19:01	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041025

Review By	anahy	Review On	4/11/2025 10:19:37 AM		
Supervise By	Jagrut	Supervise On	4/11/2025 10:44:07 AM		
SubDirectory	BM041025	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049875.D	10 Apr 2025 08:53	RC/JU	Ok
2	SSTDCCC040	BM049876.D	10 Apr 2025 09:32	RC/JU	Ok
3	PB167509BL	BM049877.D	10 Apr 2025 10:11	RC/JU	Ok
4	Q1753-01	BM049878.D	10 Apr 2025 10:54	RC/JU	Ok
5	Q1753-05	BM049879.D	10 Apr 2025 11:34	RC/JU	Ok
6	Q1753-05MS	BM049880.D	10 Apr 2025 12:13	RC/JU	Ok,M
7	Q1753-05MSD	BM049881.D	10 Apr 2025 12:52	RC/JU	Ok,M
8	Q1752-05	BM049882.D	10 Apr 2025 13:31	RC/JU	Ok
9	Q1752-07	BM049883.D	10 Apr 2025 14:10	RC/JU	Ok
10	Q1752-01	BM049884.D	10 Apr 2025 14:49	RC/JU	Ok
11	Q1752-03	BM049885.D	10 Apr 2025 15:28	RC/JU	Ok
12	Q1754-03	BM049886.D	10 Apr 2025 16:07	RC/JU	Ok,M
13	Q1739-02	BM049887.D	10 Apr 2025 16:46	RC/JU	Ok,M
14	Q1754-01	BM049888.D	10 Apr 2025 17:25	RC/JU	Ok,M
15	Q1749-01	BM049889.D	10 Apr 2025 18:04	RC/JU	Ok
16	Q1748-05	BM049890.D	10 Apr 2025 18:44	RC/JU	Ok
17	Q1748-01	BM049891.D	10 Apr 2025 19:23	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041625

Review By	Rahul	Review On	4/17/2025 10:26:53 AM		
Supervise By	Jagrut	Supervise On	4/17/2025 12:28:46 PM		
SubDirectory	BM041625	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12659,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049943.D	16 Apr 2025 08:49	RC/JU	Ok
2	SSTDCCC040	BM049944.D	16 Apr 2025 09:28	RC/JU	Ok,M
3	PB167561BL	BM049945.D	16 Apr 2025 10:07	RC/JU	Ok
4	PB167561BS	BM049946.D	16 Apr 2025 10:47	RC/JU	Ok,M
5	PB167509BS	BM049947.D	16 Apr 2025 11:26	RC/JU	Ok,M
6	PB167587TB	BM049948.D	16 Apr 2025 12:05	RC/JU	Ok
7	PB167598BL	BM049949.D	16 Apr 2025 12:44	RC/JU	Ok
8	PB167598BS	BM049950.D	16 Apr 2025 13:24	RC/JU	Ok,M
9	Q1791-13	BM049951.D	16 Apr 2025 14:07	RC/JU	ReRun
10	Q1791-14	BM049952.D	16 Apr 2025 14:46	RC/JU	Ok
11	Q1810-02	BM049953.D	16 Apr 2025 15:26	RC/JU	Ok
12	Q1806-01DL	BM049954.D	16 Apr 2025 16:05	RC/JU	Ok,M
13	Q1788-01DL	BM049955.D	16 Apr 2025 16:44	RC/JU	Ok,M
14	Q1808-01MS	BM049956.D	16 Apr 2025 17:24	RC/JU	Ok,M
15	Q1808-01MSD	BM049957.D	16 Apr 2025 18:03	RC/JU	Ok,M
16	Q1808-03	BM049958.D	16 Apr 2025 18:42	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP031225

Review By	anahy	Review On	3/13/2025 11:41:15 AM		
Supervise By	Jagrut	Supervise On	3/17/2025 4:44:19 PM		
SubDirectory	BP031225	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024159.D	12 Mar 2025 15:36	RC/JU	Ok
2	SSTDICC2.5	BP024160.D	12 Mar 2025 16:17	RC/JU	Ok
3	SSTDICC005	BP024161.D	12 Mar 2025 16:57	RC/JU	Ok,M
4	SSTDICC010	BP024162.D	12 Mar 2025 17:38	RC/JU	Ok
5	SSTDICC020	BP024163.D	12 Mar 2025 18:19	RC/JU	Ok
6	SSTDICCC040	BP024164.D	12 Mar 2025 19:00	RC/JU	Ok
7	SSTDICC050	BP024165.D	12 Mar 2025 19:41	RC/JU	Ok,M
8	SSTDICC060	BP024166.D	12 Mar 2025 20:21	RC/JU	Ok,M
9	SSTDICC080	BP024167.D	12 Mar 2025 21:02	RC/JU	Ok,M
10	SSTDICV040	BP024168.D	12 Mar 2025 21:43	RC/JU	Ok,M
11	PB167078BL	BP024169.D	12 Mar 2025 22:24	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP040925

Review By	anahy	Review On	4/10/2025 10:38:27 AM		
Supervise By	Jagrut	Supervise On	4/10/2025 3:33:16 PM		
SubDirectory	BP040925	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024227.D	09 Apr 2025 08:42	RC/JU	Ok
2	SSTDCCC040	BP024228.D	09 Apr 2025 10:08	RC/JU	Ok,M
3	PB167467TB	BP024229.D	09 Apr 2025 10:49	RC/JU	Ok
4	PB167474BS	BP024230.D	09 Apr 2025 11:29	RC/JU	Not Ok
5	Q1730-01MS	BP024231.D	09 Apr 2025 12:15	RC/JU	Ok
6	Q1730-01MSD	BP024232.D	09 Apr 2025 12:56	RC/JU	Ok
7	Q1737-02	BP024233.D	09 Apr 2025 13:37	RC/JU	Ok
8	Q1712-04	BP024234.D	09 Apr 2025 14:18	RC/JU	Ok
9	Q1712-04MS	BP024235.D	09 Apr 2025 14:59	RC/JU	Ok
10	Q1712-04MSD	BP024236.D	09 Apr 2025 15:39	RC/JU	Ok
11	Q1712-08	BP024237.D	09 Apr 2025 16:20	RC/JU	Ok
12	Q1732-04	BP024238.D	09 Apr 2025 17:01	RC/JU	Ok
13	Q1746-07	BP024239.D	09 Apr 2025 17:41	RC/JU	Ok
14	Q1746-01	BP024240.D	09 Apr 2025 18:22	RC/JU	Ok
15	Q1747-01	BP024241.D	09 Apr 2025 19:03	RC/JU	Ok
16	Q1745-01	BP024242.D	09 Apr 2025 19:43	RC/JU	Ok,M
17	SSTDCCC040	BP024243.D	09 Apr 2025 20:24	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041025

Review By	anahy	Review On	4/11/2025 10:19:20 AM		
Supervise By	Jagrut	Supervise On	4/11/2025 10:44:46 AM		
SubDirectory	BP041025	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024244.D	10 Apr 2025 09:05	RC/JU	Ok
2	SSTDCCC040	BP024245.D	10 Apr 2025 09:46	RC/JU	Ok
3	PB167518BL	BP024246.D	10 Apr 2025 10:27	RC/JU	Ok
4	PB167537TB	BP024247.D	10 Apr 2025 11:08	RC/JU	Ok
5	Q1745-04	BP024248.D	10 Apr 2025 11:54	RC/JU	Ok
6	Q1745-12	BP024249.D	10 Apr 2025 12:35	RC/JU	Ok
7	Q1740-04	BP024250.D	10 Apr 2025 13:15	RC/JU	Ok
8	Q1743-04	BP024251.D	10 Apr 2025 13:56	RC/JU	Ok
9	Q1746-05	BP024252.D	10 Apr 2025 14:36	RC/JU	Ok
10	Q1746-06	BP024253.D	10 Apr 2025 15:17	RC/JU	Ok,M
11	Q1748-04	BP024254.D	10 Apr 2025 17:08	RC/JU	Ok
12	Q1748-08	BP024255.D	10 Apr 2025 17:49	RC/JU	Ok
13	Q1754-02	BP024256.D	10 Apr 2025 18:30	RC/JU	Ok
14	Q1754-04	BP024257.D	10 Apr 2025 19:10	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040825

Review By	anahy	Review On	4/9/2025 10:38:14 AM		
Supervise By	Jagrut	Supervise On	4/9/2025 4:50:06 PM		
SubDirectory	BM040825	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049847.D	08 Apr 2025 12:55		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM049848.D	08 Apr 2025 13:35		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM049849.D	08 Apr 2025 14:14	Compound #32,54,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM049850.D	08 Apr 2025 14:53	Compound #32,54 kept on LR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM049851.D	08 Apr 2025 15:32	This calibration is fail for Com#77	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BM049852.D	08 Apr 2025 16:12	This calibration is good for 8270E DOD except Com#77 and good for 625.1 method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BM049853.D	08 Apr 2025 17:30		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BM049854.D	08 Apr 2025 19:28	Compound #69 Removed from 60PPM	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BM049855.D	08 Apr 2025 20:07	Compound #69 Removed from 80PPM	RC/JU	Ok,M
10	SSTDICV040	ICVBM040825	BM049856.D	08 Apr 2025 20:47		RC/JU	Ok
11	PB167474BL	PB167474BL	BM049857.D	08 Apr 2025 21:26	Use for Q1730 only	RC/JU	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040925

Review By	anahy	Review On	4/10/2025 10:38:09 AM		
Supervise By	Jagrut	Supervise On	4/10/2025 3:33:56 PM		
SubDirectory	BM040925	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049858.D	09 Apr 2025 08:30		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM049859.D	09 Apr 2025 09:09		RC/JU	Ok
3	PB167521BL	PB167521BL	BM049860.D	09 Apr 2025 09:48		RC/JU	Ok
4	PB167521BS	PB167521BS	BM049861.D	09 Apr 2025 10:27		RC/JU	Ok
5	PB167521BSD	PB167521BSD	BM049862.D	09 Apr 2025 11:06		RC/JU	Ok
6	Q1740-01	TP-20	BM049863.D	09 Apr 2025 11:50		RC/JU	Ok
7	Q1744-01	B-158-SB01	BM049864.D	09 Apr 2025 12:29		RC/JU	Ok
8	Q1744-01MS	B-158-SB01MS	BM049865.D	09 Apr 2025 13:08		RC/JU	Ok
9	Q1744-01MSD	B-158-SB01MSD	BM049866.D	09 Apr 2025 13:47		RC/JU	Ok
10	Q1742-01	TR-06-040725	BM049867.D	09 Apr 2025 14:26		RC/JU	Ok,M
11	Q1746-03	B-149-SB02	BM049868.D	09 Apr 2025 15:05		RC/JU	Ok
12	Q1744-03	B-158-SB02	BM049869.D	09 Apr 2025 15:45		RC/JU	Ok
13	Q1712-01DL	Z-05ADL	BM049870.D	09 Apr 2025 16:24	Need 5X further Dilution	RC/JU	Dilution
14	Q1712-01DL2	Z-05ADL2	BM049871.D	09 Apr 2025 17:03		RC/JU	Ok,M
15	Q1743-01	TP-16	BM049872.D	09 Apr 2025 17:42		RC/JU	Ok,M
16	Q1745-09	IB-6.5-WC	BM049873.D	09 Apr 2025 18:21		RC/JU	Ok,M
17	Q1739-01	WC-LIQUID-20250404	BM049874.D	09 Apr 2025 19:01	Surrogate Fail	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041025

Review By	anahy	Review On	4/11/2025 10:19:37 AM		
Supervise By	Jagrut	Supervise On	4/11/2025 10:44:07 AM		
SubDirectory	BM041025	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049875.D	10 Apr 2025 08:53		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM049876.D	10 Apr 2025 09:32		RC/JU	Ok
3	PB167509BL	PB167509BL	BM049877.D	10 Apr 2025 10:11		RC/JU	Ok
4	Q1753-01	WC-1	BM049878.D	10 Apr 2025 10:54		RC/JU	Ok
5	Q1753-05	WC-2	BM049879.D	10 Apr 2025 11:34		RC/JU	Ok
6	Q1753-05MS	WC-2MS	BM049880.D	10 Apr 2025 12:13		RC/JU	Ok,M
7	Q1753-05MSD	WC-2MSD	BM049881.D	10 Apr 2025 12:52		RC/JU	Ok,M
8	Q1752-05	TP-4	BM049882.D	10 Apr 2025 13:31		RC/JU	Ok
9	Q1752-07	TP-3	BM049883.D	10 Apr 2025 14:10		RC/JU	Ok
10	Q1752-01	TP-1	BM049884.D	10 Apr 2025 14:49		RC/JU	Ok
11	Q1752-03	TP-2	BM049885.D	10 Apr 2025 15:28		RC/JU	Ok
12	Q1754-03	TP-1-CONCRETE	BM049886.D	10 Apr 2025 16:07		RC/JU	Ok,M
13	Q1739-02	WC-LIQUID-20250404	BM049887.D	10 Apr 2025 16:46		RC/JU	Ok,M
14	Q1754-01	TP-1	BM049888.D	10 Apr 2025 17:25		RC/JU	Ok,M
15	Q1749-01	TP-14	BM049889.D	10 Apr 2025 18:04		RC/JU	Ok
16	Q1748-05	IB-2A-WC	BM049890.D	10 Apr 2025 18:44		RC/JU	Ok
17	Q1748-01	IB-1.5-WC	BM049891.D	10 Apr 2025 19:23		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041625

Review By	Rahul	Review On	4/17/2025 10:26:53 AM		
Supervise By	Jagrut	Supervise On	4/17/2025 12:28:46 PM		
SubDirectory	BM041625	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12659,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049943.D	16 Apr 2025 08:49		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM049944.D	16 Apr 2025 09:28		RC/JU	Ok,M
3	PB167561BL	PB167561BL	BM049945.D	16 Apr 2025 10:07		RC/JU	Ok
4	PB167561BS	PB167561BS	BM049946.D	16 Apr 2025 10:47		RC/JU	Ok,M
5	PB167509BS	PB167509BS	BM049947.D	16 Apr 2025 11:26		RC/JU	Ok,M
6	PB167587TB	PB167587TB	BM049948.D	16 Apr 2025 12:05		RC/JU	Ok
7	PB167598BL	PB167598BL	BM049949.D	16 Apr 2025 12:44		RC/JU	Ok
8	PB167598BS	PB167598BS	BM049950.D	16 Apr 2025 13:24		RC/JU	Ok,M
9	Q1791-13	279312	BM049951.D	16 Apr 2025 14:07	Internal Standards and surrogates Failed	RC/JU	ReRun
10	Q1791-14	VB16164	BM049952.D	16 Apr 2025 14:46		RC/JU	Ok
11	Q1810-02	MOO-25-0118	BM049953.D	16 Apr 2025 15:26		RC/JU	Ok
12	Q1806-01DL	OR-03-041425DL	BM049954.D	16 Apr 2025 16:05		RC/JU	Ok,M
13	Q1788-01DL	WC-1DL	BM049955.D	16 Apr 2025 16:44		RC/JU	Ok,M
14	Q1808-01MS	OILY-SOIL-PILEMS	BM049956.D	16 Apr 2025 17:24		RC/JU	Ok,M
15	Q1808-01MSD	OILY-SOIL-PILEMSD	BM049957.D	16 Apr 2025 18:03		RC/JU	Ok,M
16	Q1808-03	LAW-25-0060	BM049958.D	16 Apr 2025 18:42		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP031225

Review By	anahy	Review On	3/13/2025 11:41:15 AM		
Supervise By	Jagrut	Supervise On	3/17/2025 4:44:19 PM		
SubDirectory	BP031225	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024159.D	12 Mar 2025 15:36		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024160.D	12 Mar 2025 16:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024161.D	12 Mar 2025 16:57	Compound #32,54,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024162.D	12 Mar 2025 17:38		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BP024163.D	12 Mar 2025 18:19		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BP024164.D	12 Mar 2025 19:00	This calibration is good for 8270E and 8270E DOD methods	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BP024165.D	12 Mar 2025 19:41		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BP024166.D	12 Mar 2025 20:21	Compound #69 Removed from 60PPM	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP024167.D	12 Mar 2025 21:02	Compound #32,54,69 Removed from 80PPM	RC/JU	Ok,M
10	SSTDICV040	ICVBP031225	BP024168.D	12 Mar 2025 21:43		RC/JU	Ok,M
11	PB167078BL	PB167078BL	BP024169.D	12 Mar 2025 22:24		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP040925

Review By	anahy	Review On	4/10/2025 10:38:27 AM		
Supervise By	Jagrut	Supervise On	4/10/2025 3:33:16 PM		
SubDirectory	BP040925	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024227.D	09 Apr 2025 08:42		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024228.D	09 Apr 2025 10:08		RC/JU	Ok,M
3	PB167467TB	PB167467TB	BP024229.D	09 Apr 2025 10:49		RC/JU	Ok
4	PB167474BS	PB167474BS	BP024230.D	09 Apr 2025 11:29	not used.	RC/JU	Not Ok
5	Q1730-01MS	OU4-VSL-15-040325MS	BP024231.D	09 Apr 2025 12:15		RC/JU	Ok
6	Q1730-01MSD	OU4-VSL-15-040325MS	BP024232.D	09 Apr 2025 12:56		RC/JU	Ok
7	Q1737-02	RT3069	BP024233.D	09 Apr 2025 13:37		RC/JU	Ok
8	Q1712-04	Z-05A	BP024234.D	09 Apr 2025 14:18		RC/JU	Ok
9	Q1712-04MS	Z-05AMS	BP024235.D	09 Apr 2025 14:59		RC/JU	Ok
10	Q1712-04MSD	Z-05AMSD	BP024236.D	09 Apr 2025 15:39		RC/JU	Ok
11	Q1712-08	TT-7	BP024237.D	09 Apr 2025 16:20		RC/JU	Ok
12	Q1732-04	TT-8	BP024238.D	09 Apr 2025 17:01		RC/JU	Ok
13	Q1746-07	EB-2025-4-7	BP024239.D	09 Apr 2025 17:41		RC/JU	Ok
14	Q1746-01	B-149-SB01	BP024240.D	09 Apr 2025 18:22		RC/JU	Ok
15	Q1747-01	ARS20-0008	BP024241.D	09 Apr 2025 19:03		RC/JU	Ok
16	Q1745-01	IB-6A-WC	BP024242.D	09 Apr 2025 19:43		RC/JU	Ok,M
17	SSTDCCC040	SSTDCCC040EC	BP024243.D	09 Apr 2025 20:24		RC/JU	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041025

Review By	anahy	Review On	4/11/2025 10:19:20 AM		
Supervise By	Jagrut	Supervise On	4/11/2025 10:44:46 AM		
SubDirectory	BP041025	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024244.D	10 Apr 2025 09:05		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024245.D	10 Apr 2025 09:46		RC/JU	Ok
3	PB167518BL	PB167518BL	BP024246.D	10 Apr 2025 10:27		RC/JU	Ok
4	PB167537TB	PB167537TB	BP024247.D	10 Apr 2025 11:08		RC/JU	Ok
5	Q1745-04	IB-6A-WC	BP024248.D	10 Apr 2025 11:54		RC/JU	Ok
6	Q1745-12	IB-6.5-WC	BP024249.D	10 Apr 2025 12:35		RC/JU	Ok
7	Q1740-04	TP-20	BP024250.D	10 Apr 2025 13:15		RC/JU	Ok
8	Q1743-04	TP-16	BP024251.D	10 Apr 2025 13:56		RC/JU	Ok
9	Q1746-05	B-158-GW01	BP024252.D	10 Apr 2025 14:36		RC/JU	Ok
10	Q1746-06	B-149-GW01	BP024253.D	10 Apr 2025 15:17		RC/JU	Ok,M
11	Q1748-04	IB-1.5-WC	BP024254.D	10 Apr 2025 17:08		RC/JU	Ok
12	Q1748-08	IB-2A-WC	BP024255.D	10 Apr 2025 17:49		RC/JU	Ok
13	Q1754-02	TP-1	BP024256.D	10 Apr 2025 18:30		RC/JU	Ok
14	Q1754-04	TP-1-CONCRETE	BP024257.D	10 Apr 2025 19:10		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167509

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 04/08/2025

Extraction Start Time : 08:59

Extraction End Date : 04/08/2025

Extraction End Time : 12:00

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2597
Sand	N/A	EP2865
Methylene Chloride	N/A	E3904
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25	RJ (Ext. Lab)	RC/SVOC
12:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167509

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167509BL	SBLK509	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U3-1
PB167509BS	SLCS509	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
Q1740-01	TP-20	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
Q1742-01	TR-06-040725	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1743-01	TP-16	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		5
Q1744-01	B-158-SB01	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		6
Q1744-01MS	B-158-SB01MS	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U6-1
Q1744-01MSD	B-158-SB01MSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q1744-03	B-158-SB02	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
Q1745-01	IB-6A-WC	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		4
Q1745-09	IB-6.5-WC	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	D		5
Q1746-01	B-149-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		6
Q1746-03	B-149-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	F		U2-1
Q1747-01	ARS20-0008	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		2

* **Extracts relinguished on the same date as received.**

4/8/25

1675109 8:29

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1742 **WorkList ID :** 188790 **Department :** Extraction **Date :** 04-08-2025 08:11:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L21	04/04/2025	8270E
Q1742-01	TR-06-040725	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05		04/04/2025	8270E
Q1743-01	TP-16	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L33	04/07/2025	8270E
Q1744-01	B-158-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/05/2025	8270E
Q1744-03	B-158-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/05/2025	8270E
Q1745-01	IB-6A-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/07/2025	8270E
Q1745-09	IB-6.5-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/07/2025	8270E
Q1746-01	B-149-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/05/2025	8270E
Q1746-03	B-149-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/06/2025	8270E
Q1747-01	ARS20-0008	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I41	04/07/2025	8270E

Date/Time 04/08/25 8:55
Raw Sample Received by: RJ (Eat 2043)
Raw Sample Relinquished by: CP

Date/Time 04/08/25 9:15
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Eat 2043)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167521

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 04/08/2025

Extraction Start Time : 11:55

Extraction End Date : 04/08/2025

Extraction End Time : 16:45

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2599
10N NaoH	N/A	EP2569
H2SO4 1:1	N/A	EP2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25	RP (Ext. Lab)	AC/SVOC
16:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167521

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167521BL	SBLK521	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			SEP-08
PB167521BS	SLCS521	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			9
PB167521BSD	SLCSD521	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			10
Q1739-01	WC-LIQUID-20250404	SVOC-TCL BNA -20	970	6	ritesh	rajesh	10	I	Oily	11
Q1746-05	B-158-GW01	SVOC-TCL BNA -20	980	6	ritesh	rajesh	1	G		12
Q1746-06	B-149-GW01	SVOC-TCL BNA -20	970	6	ritesh	rajesh	1	G		13
Q1746-07	EB-2025-4-7	SVOC-TCL BNA -20	970	6	ritesh	rajesh	1	G		14

* **Extracts relinguished on the same date as received.**

4/9/25

1675/21
12:20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1741 **WorkList ID :** 188807 **Department :** Extraction **Date :** 04-08-2025 10:05:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1739-01	WC-LIQUID-20250404	Water	SVOC-TCL BNA -20	Cool 4 deg C	PARS02	L31	04/04/2025	8270E
Q1739-01	WC-LIQUID-20250404	Water	TPH GC	Cool 4 deg C	PARS02	L31	04/04/2025	8015D
Q1741-01	RMW-02B-66-040425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L33	04/04/2025	8270-Modified
Q1741-02	RMW-02B-74-040425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L33	04/04/2025	8270-Modified
Q1741-03	FB01-040425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	L33	04/04/2025	8270-Modified
Q1746-05	B-158-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/05/2025	8270E
Q1746-06	B-149-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/06/2025	8270E
Q1746-07	EB-2025-4-7	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/07/2025	8270E

Date/Time 04/08/25 11:55
Raw Sample Received by: RJ (Sat Lab)
Raw Sample Relinquished by: CP

Date/Time 04/08/25 12:20
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Sat Lab)

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			SVOC-TCL BNA -20	8270E		04/08/25	04/09/25	
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			SVOC-TCL BNA -20	8270E		04/08/25	04/09/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	
Q1746-05	**B-158-GW01**	**Water**			**04/05/25**			**04/07/25**
			SVOC-TCL BNA -20	8270E		04/08/25	04/10/25	
Q1746-06	**B-149-GW01**	**Water**			**04/06/25**			**04/07/25**
			SVOC-TCL BNA -20	8270E		04/08/25	04/10/25	
Q1746-07	**EB-2025-4-7**	**Water**			**04/07/25**			**04/07/25**
			SVOC-TCL BNA -20	8270E		04/08/25	04/09/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

Raw Data: **BP024262.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1746
Lab Sample ID:	PB167517TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024262.D	1	04/09/25 13:25	04/11/25 11:45	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	163		15 (10) - 110 (139)	108%	SPK: 150
13127-88-3	Phenol-d6	154		15 (10) - 110 (134)	103%	SPK: 150
4165-60-0	Nitrobenzene-d5	106		30 (49) - 130 (133)	106%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167	*	15 (44) - 110 (137)	112%	SPK: 150
1718-51-0	Terphenyl-d14	111		30 (48) - 130 (125)	111%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	246000	7.758			
1146-65-2	Naphthalene-d8	989000	10.534			
15067-26-2	Acenaphthene-d10	609000	14.387			
1517-22-2	Phenanthrene-d10	1150000	17.192			
1719-03-5	Chrysene-d12	1140000	21.639			
1520-96-3	Perylene-d12	1240000	24.998			

Raw Data: **BP024262.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1746
Lab Sample ID:	PB167517TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024262.D	1	04/09/25 13:25	04/11/25 11:45	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BP024267.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-02	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024267.D	1	04/09/25 13:25	04/11/25 15:40	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	112		15 (10) - 110 (134)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.0		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.6		30 (52) - 130 (132)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		15 (44) - 110 (137)	110%	SPK: 150
1718-51-0	Terphenyl-d14	98.1		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	255000	7.74			
1146-65-2	Naphthalene-d8	996000	10.516			
15067-26-2	Acenaphthene-d10	565000	14.375			
1517-22-2	Phenanthrene-d10	1210000	17.175			
1719-03-5	Chrysene-d12	1340000	21.616			
1520-96-3	Perylene-d12	685000	24.98			

Raw Data: **BP024267.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-02	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024267.D	1	04/09/25 13:25	04/11/25 15:40	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BP024268.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-04	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024268.D	1	04/09/25 13:25	04/11/25 16:21	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	141		15 (10) - 110 (139)	94%	SPK: 150
13127-88-3	Phenol-d6	122		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	102		30 (49) - 130 (133)	102%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.6		30 (52) - 130 (132)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	180	*	15 (44) - 110 (137)	120%	SPK: 150
1718-51-0	Terphenyl-d14	109		30 (48) - 130 (125)	109%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000	7.74			
1146-65-2	Naphthalene-d8	876000	10.516			
15067-26-2	Acenaphthene-d10	518000	14.375			
1517-22-2	Phenanthrene-d10	1060000	17.181			
1719-03-5	Chrysene-d12	1220000	21.616			
1520-96-3	Perylene-d12	907000	25.004			

Raw Data: **BP024268.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/07/25
Client Sample ID:	B-149-SB02			SDG No.:	Q1746
Lab Sample ID:	Q1746-04			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024268.D	1	04/09/25 13:25	04/11/25 16:21	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167517TB	PB167517TB	2-Fluorophenol	150	163	108		15 (10)	110 (139)
		Phenol-d6	150	154	103		15 (10)	110 (134)
		Nitrobenzene-d5	100	106	106		30 (49)	130 (133)
		2-Fluorobiphenyl	100	100	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	167	112	*	15 (44)	110 (137)
		Terphenyl-d14	100	111	111		30 (48)	130 (125)
PB167537BL	PB167537BL	2-Fluorophenol	150	154	103		15 (10)	110 (139)
		Phenol-d6	150	142	95		15 (10)	110 (134)
		Nitrobenzene-d5	100	102	102		30 (49)	130 (133)
		2-Fluorobiphenyl	100	100	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	163	109		15 (44)	110 (137)
		Terphenyl-d14	100	107	107		30 (48)	130 (125)
PB167537BS	PB167537BS	2-Fluorophenol	150	155	104		15 (10)	110 (139)
		Phenol-d6	150	146	97		15 (10)	110 (134)
		Nitrobenzene-d5	100	102	102		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.7	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	167	111	*	15 (44)	110 (137)
		Terphenyl-d14	100	103	103		30 (48)	130 (125)
PB167537TB	PB167537TB	2-Fluorophenol	150	154	102		15 (10)	110 (139)
		Phenol-d6	150	145	97		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.6	99		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.0	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	163	108		15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
Q1746-02	B-149-SB01	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	112	74		15 (10)	110 (134)
		Nitrobenzene-d5	100	93.0	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	90.6	91		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	166	110		15 (44)	110 (137)
		Terphenyl-d14	100	98.1	98		30 (48)	130 (125)
Q1746-04	B-149-SB02	2-Fluorophenol	150	141	94		15 (10)	110 (139)
		Phenol-d6	150	122	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	102	102		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.6	97		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	180	120	*	15 (44)	110 (137)
		Terphenyl-d14	100	109	109		30 (48)	130 (125)
Q1748-04MS	IB-1.5-WCMS	2-Fluorophenol	150	160	106		15 (10)	110 (139)
		Phenol-d6	150	150	100		15 (10)	110 (134)
		Nitrobenzene-d5	100	108	108		30 (49)	130 (133)
		2-Fluorobiphenyl	100	95.4	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	199	133	*	15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
Q1748-04MSD	IB-1.5-WCMSD	2-Fluorophenol	150	144	96		15 (10)	110 (139)
		Phenol-d6	150	130	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	103	103		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.9	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	179	119	*	15 (44)	110 (137)
		Terphenyl-d14	100	107	107		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1748-04MS		**Client Sample ID: IB-1.5-WCMS**						**DataFile: BP024265.D**			
Pyridine	500	0	540	ug/L	108				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	430	ug/L	86				70 (55)	130 (125)	
2-Methylphenol	500	0	550	ug/L	110				70 (60)	130 (131)	
3+4-Methylphenols	500	0	560	ug/L	112				20 (54)	160 (136)	
Hexachloroethane	500	0	420	ug/L	84				20 (19)	160 (146)	
Nitrobenzene	500	0	490	ug/L	98				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	430	ug/L	86				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	530	ug/L	106				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	570	ug/L	114				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	660	ug/L	132	*			70 (74)	130 (137)	
Hexachlorobenzene	500	0	490	ug/L	98				70 (72)	130 (115)	
Pentachlorophenol	1000	0	1100	ug/L	110				20 (52)	160 (162)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1748-04MSD		**Client Sample ID:** IB-1.5-WCMSD						**DataFile:** BP024266.D			
Pyridine	500	0	430	ug/L	86		23	*	20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	400	ug/L	80		7		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	490	ug/L	98		12		70 (60)	130 (131)	20 (20)
3+4-Methylphenols	500	0	480	ug/L	96		15		20 (54)	160 (136)	20 (20)
Hexachloroethane	500	0	410	ug/L	82		2		20 (19)	160 (146)	20 (20)
Nitrobenzene	500	0	460	ug/L	92		6		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	430	ug/L	86		0		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	510	ug/L	102		4		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	530	ug/L	106		7		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	590	ug/L	118		11		70 (74)	130 (137)	20 (20)
Hexachlorobenzene	500	0	480	ug/L	96		2		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	1100	ug/L	110		0		20 (52)	160 (162)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BP024261.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167537BS	Pyridine	50	42.6	ug/L	85				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	49.4	ug/L	99				70 (76)	130 (103)	
	2-Methylphenol	50	54.4	ug/L	109				70 (69)	130 (109)	
	3+4-Methylphenols	50	53.8	ug/L	108				20 (67)	160 (106)	
	Hexachloroethane	50	50.3	ug/L	101				20 (76)	160 (118)	
	Nitrobenzene	50	51.1	ug/L	102				70 (58)	130 (106)	
	Hexachlorobutadiene	50	50.0	ug/L	100				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	53.7	ug/L	107				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	53.9	ug/L	108				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	59.4	ug/L	119				70 (60)	130 (115)	
	Hexachlorobenzene	50	50.4	ug/L	101				70 (73)	130 (106)	
	Pentachlorophenol	100	110	ug/L	110				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167537BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BP024260.D Lab Sample ID: PB167537BL

Instrument ID: BNA_P Date Extracted: 04/09/2025

Matrix: (soil/water) water Date Analyzed: 04/11/2025

Level: (low/med) LOW Time Analyzed: 10:23

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167537BS	PB167537BS	BP024261.D	04/11/2025
B-149-SB01	Q1746-02	BP024267.D	04/11/2025
B-149-SB02	Q1746-04	BP024268.D	04/11/2025
IB-1.5-WCMS	Q1748-04MS	BP024265.D	04/11/2025
IB-1.5-WCMSD	Q1748-04MSD	BP024266.D	04/11/2025
PB167537TB	PB167537TB	BP024247.D	04/10/2025
PB167517TB	PB167517TB	BP024262.D	04/11/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BP024159.D DFTPP Injection Date: 03/12/2025

Instrument ID: BNA_P DFTPP Injection Time: 15:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.5
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.5
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.7
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.4 (19.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024160.D	03/12/2025	16:17
SSTDICC005	SSTDICC005	BP024161.D	03/12/2025	16:57
SSTDICC010	SSTDICC010	BP024162.D	03/12/2025	17:38
SSTDICC020	SSTDICC020	BP024163.D	03/12/2025	18:19
SSTDICCC040	SSTDICCC040	BP024164.D	03/12/2025	19:00
SSTDICC050	SSTDICC050	BP024165.D	03/12/2025	19:41
SSTDICC060	SSTDICC060	BP024166.D	03/12/2025	20:21
SSTDICC080	SSTDICC080	BP024167.D	03/12/2025	21:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: BP024258.D DFTPP Injection Date: 04/11/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.3
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	32.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	29.3
365	Greater than 1% of mass 198	4.0
441	Present, but less than mass 443	15.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024259.D	04/11/2025	09:43
PB167537BL	PB167537BL	BP024260.D	04/11/2025	10:23
PB167537BS	PB167537BS	BP024261.D	04/11/2025	11:04
PB167517TB	PB167517TB	BP024262.D	04/11/2025	11:45
IB-1.5-WCMS	Q1748-04MS	BP024265.D	04/11/2025	14:19
IB-1.5-WCMSD	Q1748-04MSD	BP024266.D	04/11/2025	15:00
B-149-SB01	Q1746-02	BP024267.D	04/11/2025	15:40
B-149-SB02	Q1746-04	BP024268.D	04/11/2025	16:21

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/11/2025

Lab File ID: BP024259.D Time Analyzed: 09:43

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	312531	7.757	1264670	10.53	754959	14.39
	UPPER LIMIT	625062	8.257	2529340	11.034	1509920	14.892
	LOWER LIMIT	156266	7.257	632335	10.034	377480	13.892
	EPA SAMPLE NO.						
01	PB167517TB	245941	7.76	988900	10.53	609073	14.39
02	PB167537BL	279458	7.76	1100930	10.54	638188	14.39
03	PB167537BS	252310	7.76	1001040	10.53	619477	14.39
04	B-149-SB01	254775	7.74	995884	10.52	565210	14.38
05	B-149-SB02	222405	7.74	876214	10.52	518273	14.38
06	IB-1.5-WCMS	198893	7.74	835760	10.51	566625	14.39
07	IB-1.5-WCMSD	263233	7.74	1024670	10.52	625891	14.38

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/11/2025

Lab File ID: BP024259.D Time Analyzed: 09:43

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #		RT #
	12 HOUR STD	1422440	17.204	1476880	21.639	1685520		25.009
	UPPER LIMIT	2844880	17.704	2953760	22.139	3371040		25.509
	LOWER LIMIT	711220	16.704	738440	21.139	842760		24.509
	EPA SAMPLE NO.							
01	PB167517TB	1154900	17.19	1137900	21.64	1235220		25.00
02	PB167537BL	1225650	17.19	1255530	21.64	1409210		25.00
03	PB167537BS	1216310	17.19	1332930	21.64	1494830		25.02
04	B-149-SB01	1205780	17.18	1337100	21.62	684982	*	24.98
05	B-149-SB02	1059910	17.18	1221350	21.62	907401		25.00
06	IB-1.5-WCMS	1260550	17.19	1426670	21.65	871094		25.00
07	IB-1.5-WCMSD	1269590	17.18	1347510	21.62	604991	*	24.98

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Raw Data: **BP024260.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167537BL	SDG No.:	Q1746
Lab Sample ID:	PB167537BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024260.D	1	04/09/25 13:25	04/11/25 10:23	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.53	U	0.53	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	103%	SPK: 150
13127-88-3	Phenol-d6	142		15 (10) - 110 (134)	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	102		30 (49) - 130 (133)	102%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	163		15 (44) - 110 (137)	109%	SPK: 150
1718-51-0	Terphenyl-d14	107		30 (48) - 130 (125)	107%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	279000	7.757			
1146-65-2	Naphthalene-d8	1100000	10.54			
15067-26-2	Acenaphthene-d10	638000	14.386			
1517-22-2	Phenanthrene-d10	1230000	17.192			
1719-03-5	Chrysene-d12	1260000	21.639			
1520-96-3	Perylene-d12	1410000	25.003			

Raw Data: **BP024260.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167537BL			SDG No.:	Q1746
Lab Sample ID:	PB167537BL			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024260.D	1	04/09/25 13:25	04/11/25 10:23	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BP024261.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167537BS	SDG No.:	Q1746
Lab Sample ID:	PB167537BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024261.D	1	04/09/25 13:25	04/11/25 11:04	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	42.6		1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	49.4		0.53	5.00	ug/L
95-48-7	2-Methylphenol	54.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	53.8		1.10	10.0	ug/L
67-72-1	Hexachloroethane	50.3		0.65	5.00	ug/L
98-95-3	Nitrobenzene	51.1		0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	50.0		0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	53.7		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	53.9		0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	59.4		1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	50.4		0.52	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	155		15 (10) - 110 (139)	104%	SPK: 150
13127-88-3	Phenol-d6	146		15 (10) - 110 (134)	97%	SPK: 150
4165-60-0	Nitrobenzene-d5	102		30 (49) - 130 (133)	102%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167	*	15 (44) - 110 (137)	111%	SPK: 150
1718-51-0	Terphenyl-d14	103		30 (48) - 130 (125)	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	252000	7.757			
1146-65-2	Naphthalene-d8	1000000	10.534			
15067-26-2	Acenaphthene-d10	619000	14.387			
1517-22-2	Phenanthrene-d10	1220000	17.192			
1719-03-5	Chrysene-d12	1330000	21.639			
1520-96-3	Perylene-d12	1490000	25.015			

Raw Data: **BP024261.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167537BS			SDG No.:	Q1746
Lab Sample ID:	PB167537BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024261.D	1	04/09/25 13:25	04/11/25 11:04	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BP024265.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMS	SDG No.:	Q1746
Lab Sample ID:	Q1748-04MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024265.D	1	04/09/25 13:25	04/11/25 14:19	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	540		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	430		5.30	50.0	ug/L
95-48-7	2-Methylphenol	550		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	560		11.0	100	ug/L
67-72-1	Hexachloroethane	420		6.50	50.0	ug/L
98-95-3	Nitrobenzene	490		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	430		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	530		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	570		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	660		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	490		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	160		15 (10) - 110 (139)	106%	SPK: 150
13127-88-3	Phenol-d6	150		15 (10) - 110 (134)	100%	SPK: 150
4165-60-0	Nitrobenzene-d5	108		30 (49) - 130 (133)	108%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.4		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	199	*	15 (44) - 110 (137)	133%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199000	7.74			
1146-65-2	Naphthalene-d8	836000	10.51			
15067-26-2	Acenaphthene-d10	567000	14.386			
1517-22-2	Phenanthrene-d10	1260000	17.186			
1719-03-5	Chrysene-d12	1430000	21.645			
1520-96-3	Perylene-d12	871000	25.004			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMS			SDG No.:	Q1746
Lab Sample ID:	Q1748-04MS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024265.D	1	04/09/25 13:25	04/11/25 14:19	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BP024266.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMSD	SDG No.:	Q1746
Lab Sample ID:	Q1748-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024266.D	1	04/09/25 13:25	04/11/25 15:00	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	430		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	400		5.30	50.0	ug/L
95-48-7	2-Methylphenol	490		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	480		11.0	100	ug/L
67-72-1	Hexachloroethane	410		6.50	50.0	ug/L
98-95-3	Nitrobenzene	460		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	430		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	510		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	530		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	590		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	480		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	144		15 (10) - 110 (139)	96%	SPK: 150
13127-88-3	Phenol-d6	130		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		30 (49) - 130 (133)	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	179	*	15 (44) - 110 (137)	119%	SPK: 150
1718-51-0	Terphenyl-d14	107		30 (48) - 130 (125)	107%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	263000	7.74			
1146-65-2	Naphthalene-d8	1020000	10.516			
15067-26-2	Acenaphthene-d10	626000	14.375			
1517-22-2	Phenanthrene-d10	1270000	17.175			
1719-03-5	Chrysene-d12	1350000	21.622			
1520-96-3	Perylene-d12	605000	24.98			

Raw Data: **BP024266.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMSD	SDG No.:	Q1746
Lab Sample ID:	Q1748-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024266.D	1	04/09/25 13:25	04/11/25 15:00	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 13 05:55:58 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024160.D 5 =BP024161.D 10 =BP024162.D 20 =BP024163.D 40 =BP024164.D 50 =BP024165.D 60 =BP024166.D 80 =BP0241
67.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.503	0.499	0.518	0.469	0.496	0.498	0.493	0.497	2.93
3)		Pyridine		1.296	1.269	1.406	1.311	1.396	1.398	1.429	1.358	4.69
4)		n-Nitrosodimet...		0.444	0.436	0.476	0.431	0.461	0.466	0.461	0.454	3.66
5)	S	2-Fluorophenol		1.158	1.194	1.307	1.211	1.291	1.307	1.303	1.253	5.06
6)		Aniline		1.508	1.531	1.656	1.484	1.548	1.512	1.447	1.527	4.31
7)	S	Phenol-d6		1.518	1.581	1.747	1.631	1.749	1.754	1.748	1.675	5.86
8)		2-Chlorophenol		1.257	1.310	1.413	1.306	1.391	1.400	1.397	1.353	4.52
9)		Benzaldehyde		0.971	0.949	0.930	0.780	0.751	0.702	0.577	0.809	18.20
10)	C	Phenol		1.579	1.632	1.754	1.628	1.744	1.752	1.751	1.691	4.46
11)		bis(2-Chloroet...		1.286	1.317	1.407	1.273	1.341	1.358	1.356	1.334	3.45
12)		1,3-Dichlorobe...		1.466	1.448	1.522	1.387	1.477	1.471	1.445	1.459	2.79
13)	C	1,4-Dichlorobe...		1.507	1.474	1.562	1.413	1.493	1.503	1.479	1.490	3.01
14)		1,2-Dichlorobe...		1.446	1.426	1.494	1.358	1.435	1.440	1.411	1.430	2.85
15)		Benzyl Alcohol		0.934	0.966	1.096	1.042	1.122	1.126	1.139	1.061	7.77
16)		2,2'-oxybis(1-...		1.374	1.367	1.434	1.293	1.365	1.362	1.336	1.361	3.11
17)		2-Methylphenol		0.932	0.997	1.120	1.038	1.116	1.113	1.109	1.061	6.96
18)		Hexachloroethane		0.533	0.512	0.547	0.508	0.533	0.538	0.529	0.529	2.67
19)	P	n-Nitroso-di-n...	0.869	0.910	0.956	1.048	0.962	1.026	1.007	0.997	0.972	6.18
20)		3+4-Methylphenols		1.265	1.360	1.530	1.433	1.547	1.530	1.534	1.457	7.50
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.483	0.490	0.531	0.496	0.508	0.519	0.512	0.506	3.37
23)	S	Nitrobenzene-d5		0.330	0.338	0.366	0.351	0.362	0.368	0.367	0.354	4.34
24)		Nitrobenzene		0.330	0.336	0.362	0.341	0.355	0.363	0.361	0.350	3.88
25)		Isophorone		0.532	0.562	0.631	0.602	0.635	0.642	0.649	0.608	7.33
26)	C	2-Nitrophenol		0.126	0.141	0.167	0.171	0.182	0.189	0.192	0.167	14.92
27)		2,4-Dimethylph...		0.186	0.198	0.220	0.215	0.223	0.229	0.232	0.215	7.94
28)		bis(2-Chloroet...		0.414	0.418	0.438	0.418	0.429	0.437	0.439	0.427	2.55
29)	C	2,4-Dichloroph...		0.237	0.263	0.298	0.296	0.306	0.314	0.319	0.291	10.21
30)		1,2,4-Trichlor...		0.310	0.312	0.329	0.312	0.322	0.331	0.331	0.321	2.94
31)		Naphthalene		1.041	1.037	1.099	1.029	1.069	1.078	1.069	1.060	2.38
32)		Benzoic acid			0.148	0.190	0.218	0.239	0.252		0.209	19.82
33)		4-Chloroaniline		0.344	0.356	0.397	0.377	0.394	0.389	0.398	0.379	5.63
34)	C	Hexachlorobuta...		0.177	0.178	0.187	0.180	0.187	0.192	0.191	0.185	3.36
35)		Caprolactam		0.072	0.079	0.097	0.097	0.107	0.104	0.111	0.095	15.56
36)	C	4-Chloro-3-met...		0.261	0.283	0.324	0.314	0.333	0.332	0.348	0.313	9.83
37)		2-Methylnaphth...		0.689	0.684	0.737	0.704	0.731	0.734	0.735	0.716	3.27
38)		1-Methylnaphth...		0.674	0.673	0.728	0.673	0.704	0.705	0.720	0.697	3.32

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.548	0.560	0.596	0.558	0.580	0.608	0.596	0.578	3.98
41)	P	Hexachlorocycl...	0.169	0.189	0.214	0.212	0.220	0.234	0.222	0.208	10.65
42)	S	2,4,6-Tribromo...	0.203	0.222	0.256	0.252	0.270	0.275	0.285	0.252	11.69
43)	C	2,4,6-Trichlor...	0.291	0.324	0.379	0.372	0.391	0.409	0.406	0.367	11.98
44)		2,4,5-Trichlor...	0.331	0.362	0.414	0.409	0.422	0.439	0.443	0.403	10.23
45)	S	2-Fluorobiphenyl	1.364	1.358	1.420	1.319	1.335	1.367	1.332	1.356	2.44
46)		1,1'-Biphenyl	1.467	1.475	1.566	1.462	1.493	1.536	1.521	1.503	2.60
47)		2-Chloronaphth...	1.108	1.100	1.180	1.095	1.115	1.164	1.152	1.130	3.01
48)		2-Nitroaniline	0.228	0.252	0.300	0.292	0.311	0.317	0.324	0.289	12.34
49)		Acenaphthylene	1.586	1.628	1.776	1.661	1.749	1.789	1.784	1.710	4.91
50)		Dimethylphthalate	1.351	1.349	1.459	1.358	1.417	1.424	1.439	1.399	3.27
51)		2,6-Dinitrotol...	0.248	0.266	0.303	0.294	0.312	0.316	0.322	0.294	9.40
52)	C	Acenaphthene	1.057	1.056	1.136	1.061	1.096	1.123	1.121	1.093	3.18
53)		3-Nitroaniline	0.253	0.276	0.328	0.322	0.344	0.343	0.359	0.318	12.24
54)	P	2,4-Dinitrophenol		0.108	0.146	0.160	0.179	0.186		0.156	19.97
55)		Dibenzofuran	1.759	1.751	1.835	1.711	1.768	1.799	1.769	1.770	2.18
56)	P	4-Nitrophenol	0.187	0.218	0.271	0.277	0.299	0.296	0.312	0.266	17.41
57)		2,4-Dinitrotol...	0.295	0.334	0.400	0.394	0.423	0.431	0.446	0.389	14.19
58)		Fluorene	1.309	1.343	1.442	1.345	1.407	1.407	1.402	1.379	3.43
59)		2,3,4,6-Tetrac...	0.316	0.323	0.365	0.356	0.371	0.376	0.386	0.356	7.54
60)		Diethylphthalate	1.297	1.336	1.437	1.358	1.422	1.435	1.469	1.394	4.53
61)		4-Chlorophenyl...	0.658	0.660	0.696	0.658	0.685	0.689	0.690	0.676	2.53
62)		4-Nitroaniline	0.246	0.292	0.348	0.343	0.362	0.365	0.379	0.334	14.22
63)		Azobenzene	1.215	1.251	1.369	1.291	1.341	1.363	1.365	1.314	4.73
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.085	0.111	0.120	0.127	0.132	0.137	0.119	15.85
66)	c	n-Nitrosodiphe...	0.564	0.583	0.629	0.600	0.617	0.632	0.626	0.607	4.27
67)		4-Bromophenyl-...	0.206	0.207	0.222	0.217	0.224	0.229	0.231	0.220	4.60
68)		Hexachlorobenzene	0.248	0.249	0.263	0.254	0.263	0.270	0.272	0.260	3.76
69)		Atrazine	0.165	0.171	0.157	0.135	0.105			0.147	18.49
70)	C	Pentachlorophenol	0.121	0.140	0.166	0.177	0.184	0.190	0.197	0.168	16.61
71)		Phenanthrene	1.068	1.059	1.126	1.083	1.100	1.111	1.102	1.093	2.19
72)		Anthracene	0.993	1.012	1.101	1.063	1.092	1.090	1.098	1.064	4.16
73)		Carbazole	0.920	0.975	1.060	1.041	1.060	1.061	1.066	1.026	5.50
74)		Di-n-butylphth...	1.026	1.121	1.247	1.260	1.272	1.297	1.304	1.218	8.57
75)	C	Fluoranthene	1.173	1.220	1.287	1.264	1.305	1.298	1.312	1.265	4.07
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.222	0.199	0.178	0.258	0.173	0.278	0.222	0.219	17.88
78)		Pyrene	1.177	1.190	1.299	1.204	1.266	1.293	1.274	1.243	4.12
79)	S	Terphenyl-d14	0.967	0.973	1.033	0.948	0.966	0.971	0.924	0.969	3.45
80)		Butylbenzylpht...	0.399	0.441	0.513	0.524	0.554	0.581	0.576	0.513	13.49
81)		Benzo(a)anthra...	1.194	1.194	1.291	1.208	1.261	1.285	1.271	1.243	3.47
82)		3,3'-Dichlorob...	0.340	0.369	0.429	0.428	0.434	0.467	0.450	0.417	10.94
83)		Chrysene	1.185	1.159	1.224	1.158	1.212	1.220	1.209	1.195	2.36
84)		Bis(2-ethylhex...	0.613	0.678	0.784	0.792	0.819	0.878	0.851	0.774	12.30
85)	c	Di-n-octyl pht...	0.922	1.033	1.224	1.272	1.357	1.435	1.433	1.240	15.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.274	1.289	1.421	1.366	1.442	1.479	1.499	1.396	6.38
88)		Benzo(b)fluora...	1.103	1.116	1.258	1.190	1.244	1.266	1.264	1.206	5.85
89)		Benzo(k)fluora...	1.092	1.136	1.213	1.130	1.203	1.251	1.232	1.180	5.07
90)	C	Benzo(a)pyrene	0.953	0.959	1.065	1.029	1.094	1.119	1.122	1.049	6.77
91)		Dibenzo(a,h)an...	1.063	1.083	1.184	1.137	1.191	1.226	1.244	1.161	5.97
92)		Benzo(g,h,i)pe...	1.097	1.107	1.199	1.154	1.202	1.246	1.259	1.180	5.39

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Instrument ID: BNA_P Calibration Date/Time: 04/11/2025 09:43

Lab File ID: BP024259.D Init. Calib. Date(s): 03/12/2025 03/12/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:17 21:02

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.358	1.377		1.4	
2-Fluorophenol	1.253	1.286		2.6	
Phenol-d6	1.675	1.720		2.7	
1,4-Dichlorobenzene	1.490	1.489		-0.1	20.0
2-Methylphenol	1.061	1.100		3.7	
3+4-Methylphenols	1.457	1.511		3.7	
Nitrobenzene-d5	0.354	0.371		4.8	
Hexachloroethane	0.529	0.543		2.6	
Nitrobenzene	0.350	0.364		4.0	
Hexachlorobutadiene	0.185	0.187		1.1	20.0
2,4,6-Trichlorophenol	0.367	0.397		8.2	20.0
2-Fluorobiphenyl	1.356	1.348		-0.6	
2,4,5-Trichlorophenol	0.403	0.436		8.2	
2,4-Dinitrotoluene	0.389	0.431		10.8	
2,4,6-Tribromophenol	0.252	0.279		10.7	
Hexachlorobenzene	0.260	0.268		3.1	
Pentachlorophenol	0.168	0.192		14.3	20.0
Terphenyl-d14	0.969	1.021		5.4	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024262.D
Acq On : 11 Apr 2025 11:45
Operator : RC/JU
Sample : PB167517TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Quant Time: Apr 11 12:15:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

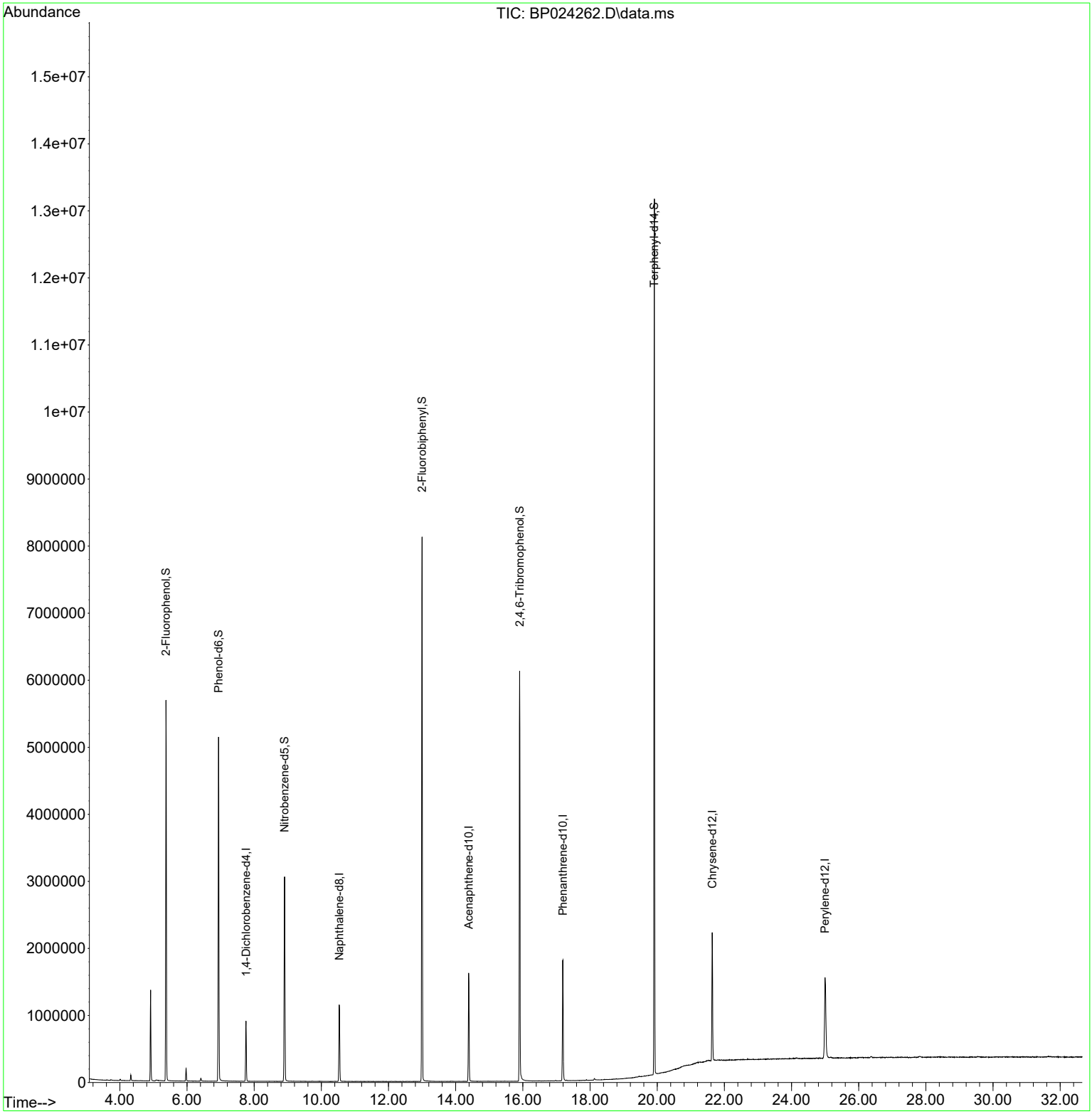
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.758	152	245941	20.000	ng	0.01
21) Naphthalene-d8	10.534	136	988900	20.000	ng	0.00
39) Acenaphthene-d10	14.387	164	609073	20.000	ng	0.00
64) Phenanthrene-d10	17.192	188	1154897	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1137897	20.000	ng	0.00
86) Perylene-d12	24.998	264	1235221	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2505867	162.644	ng	0.02
7) Phenol-d6	6.940	99	3176704	154.184	ng	0.01
23) Nitrobenzene-d5	8.905	82	1859413	106.088	ng	0.01
42) 2,4,6-Tribromophenol	15.904	330	1284993	167.490	ng	0.00
45) 2-Fluorobiphenyl	12.998	172	4144556	100.337	ng	0.00
79) Terphenyl-d14	19.916	244	6111210	110.862	ng	0.00
Target Compounds						Qvalue

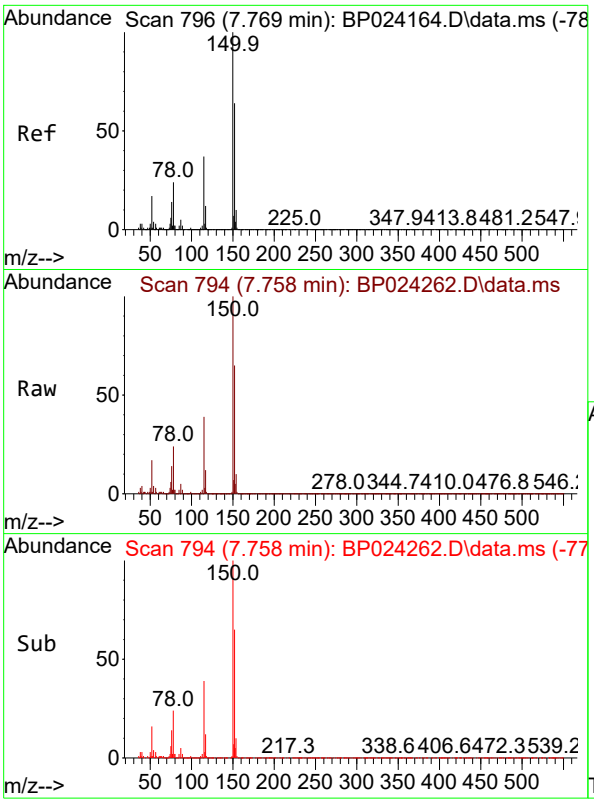
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024262.D
Acq On : 11 Apr 2025 11:45
Operator : RC/JU
Sample : PB167517TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Quant Time: Apr 11 12:15:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



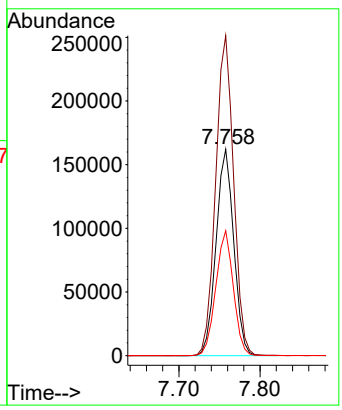


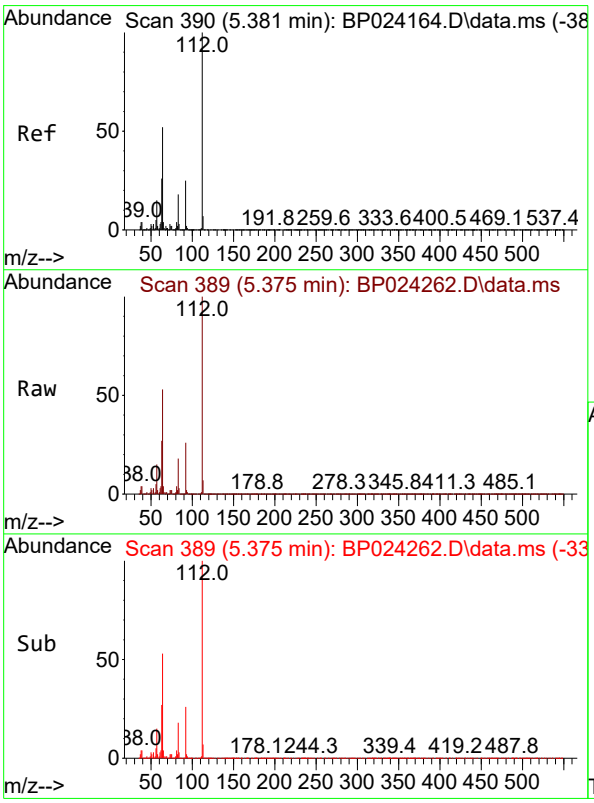
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 7
Delta R.T. 0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:152 Resp: 245941

Ion	Ratio	Lower	Upper
152	100		
150	155.0	125.5	188.3
115	60.5	46.3	69.5

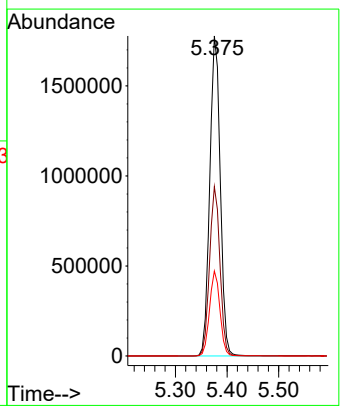


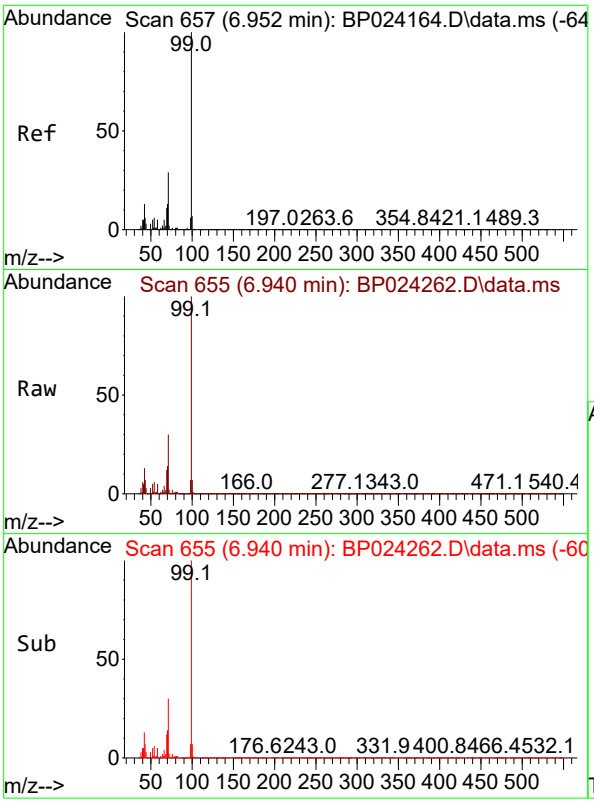


#5
2-Fluorophenol
Concen: 162.644 ng
RT: 5.375 min Scan# 389
Delta R.T. 0.018 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:112 Resp: 2505867

Ion	Ratio	Lower	Upper
112	100		
64	52.9	41.3	61.9
63	26.6	20.6	31.0



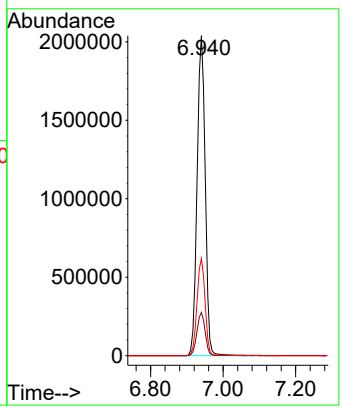


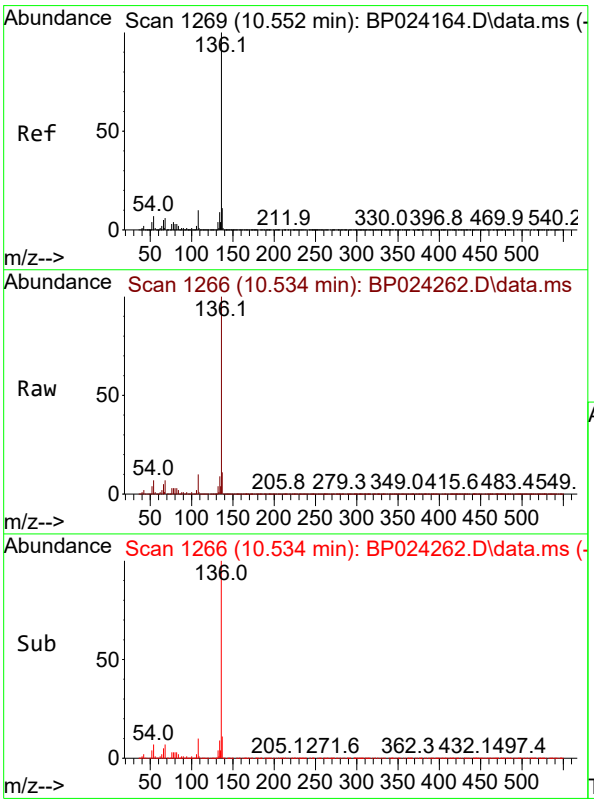
#7
Phenol-d6
Concen: 154.184 ng
RT: 6.940 min Scan# 6
Delta R.T. 0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion: 99 Resp: 3176704

Ion	Ratio	Lower	Upper
99	100		
42	13.5	10.6	16.0
71	30.4	23.3	34.9

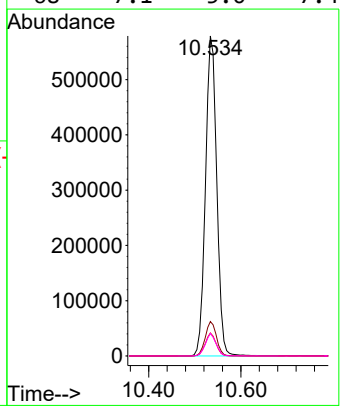


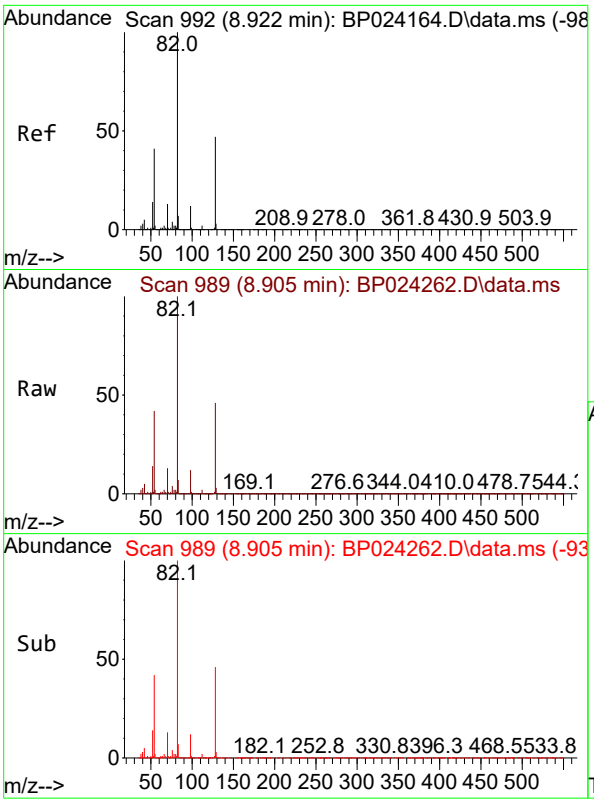


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:136 Resp: 988900

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	7.2	5.3	7.9
68	7.1	5.0	7.4



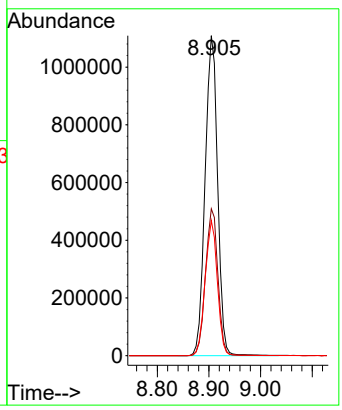


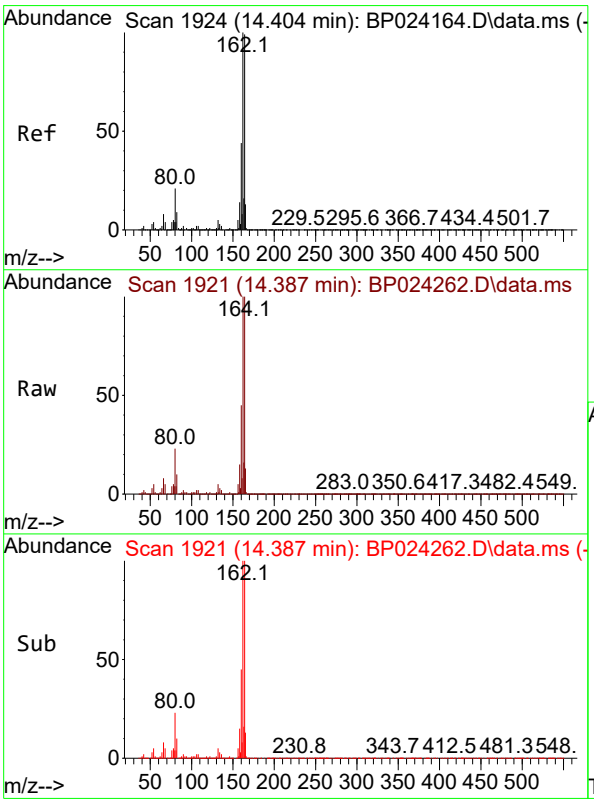
#23
Nitrobenzene-d5
Concen: 106.088 ng
RT: 8.905 min Scan# 9
Delta R.T. 0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion: 82 Resp: 1859413

Ion	Ratio	Lower	Upper
82	100		
128	45.9	37.4	56.0
54	42.2	32.5	48.7

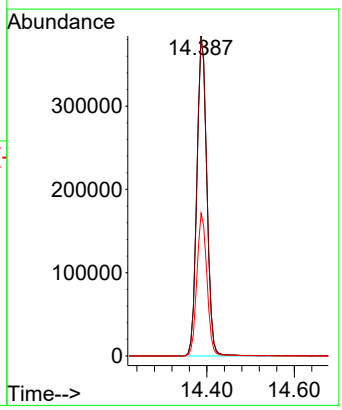


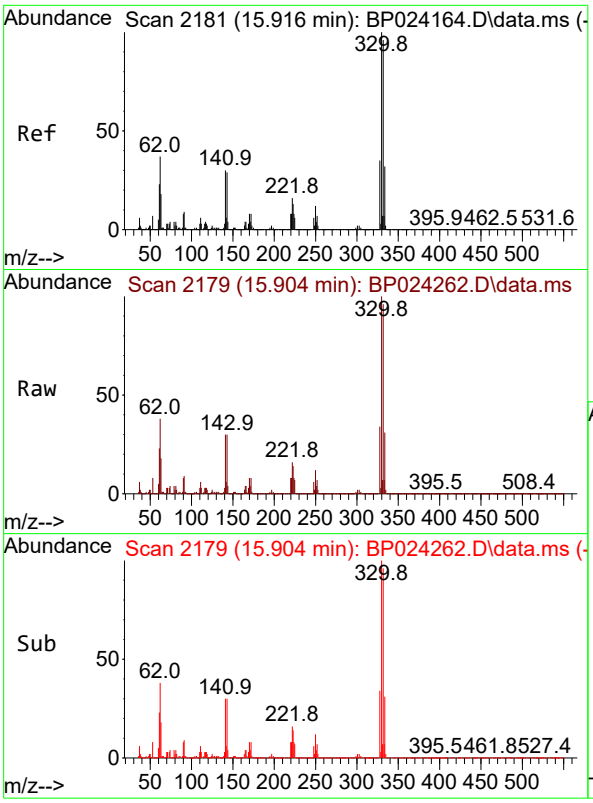


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.387 min Scan# 1921
Delta R.T. -0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:164 Resp: 609073

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.6	121.0
160	44.6	35.4	53.2



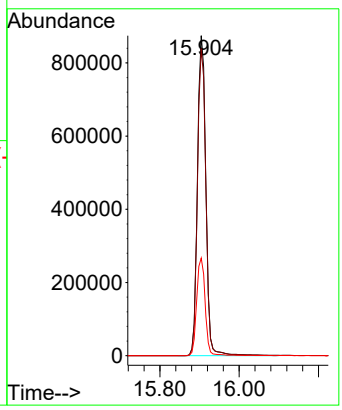


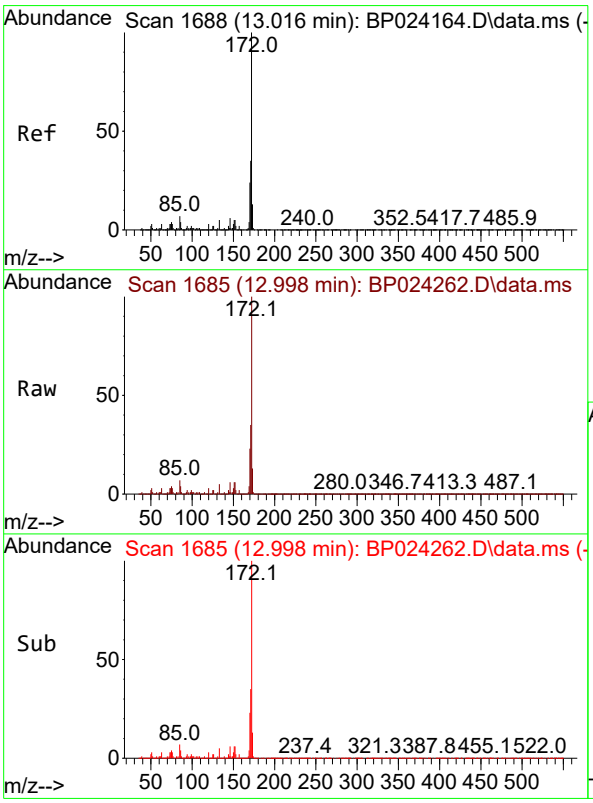
#42
2,4,6-Tribromophenol
Concen: 167.490 ng
RT: 15.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:330 Resp: 1284993

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	30.8	25.0	37.6

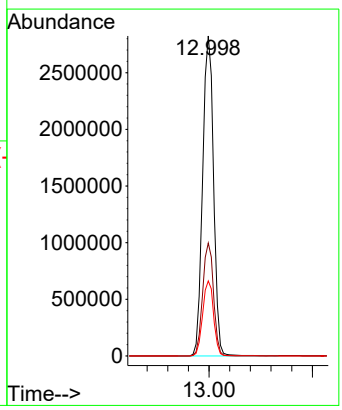


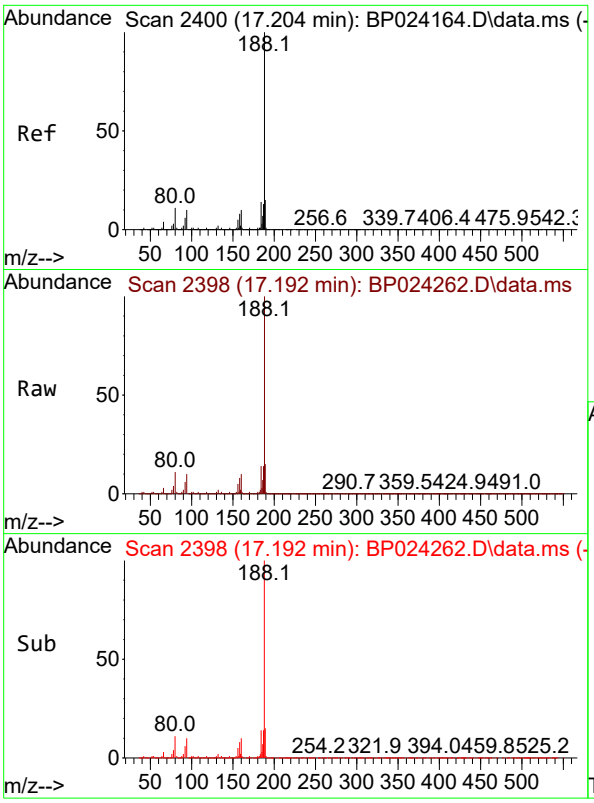


#45
2-Fluorobiphenyl
Concen: 100.337 ng
RT: 12.998 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:172 Resp: 4144556

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.5	19.0	28.4



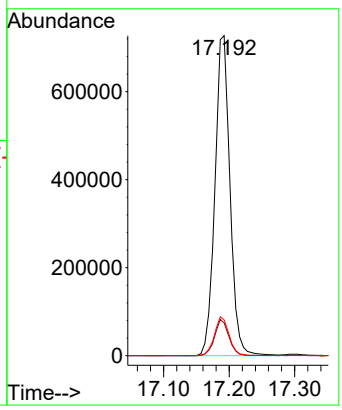


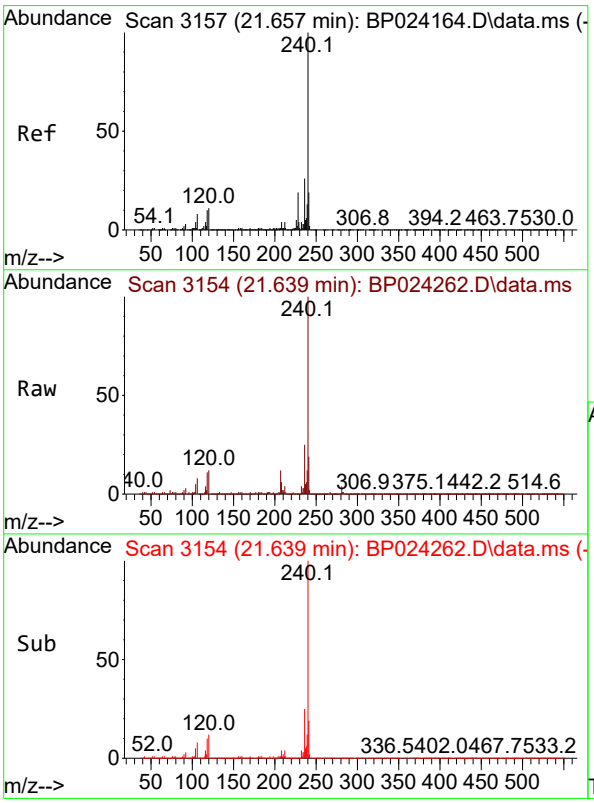
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:188 Resp: 1154897

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.1	12.1
80	11.2	8.9	13.3

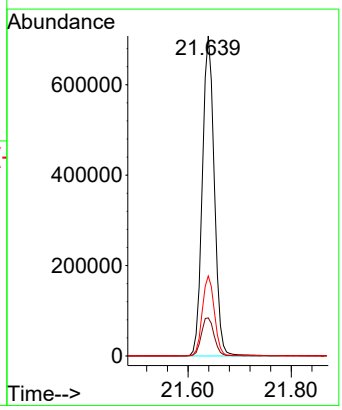


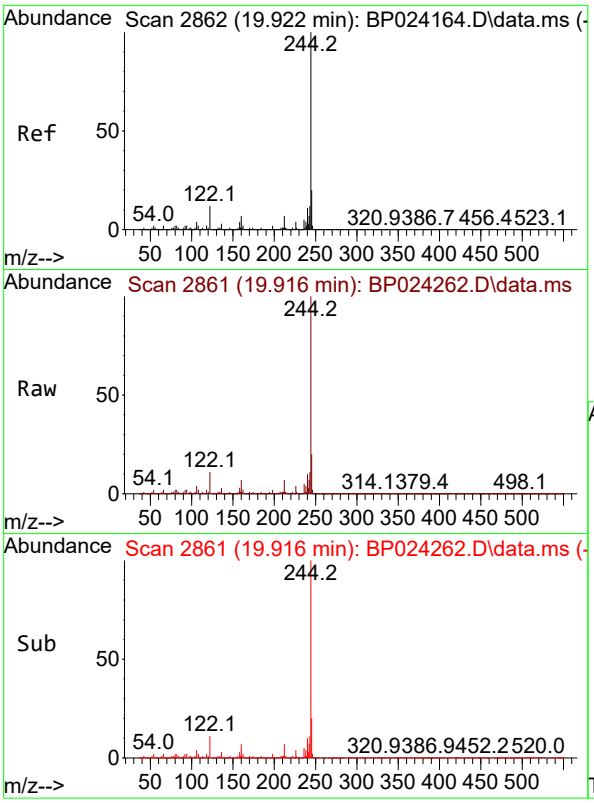


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:240 Resp: 1137897

Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.2	13.8
236	25.0	20.4	30.6



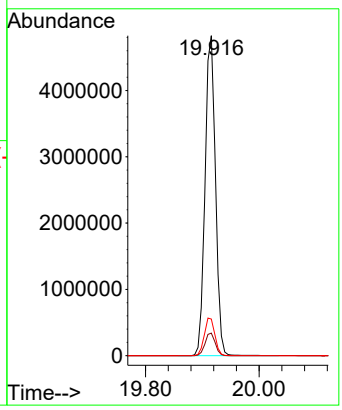


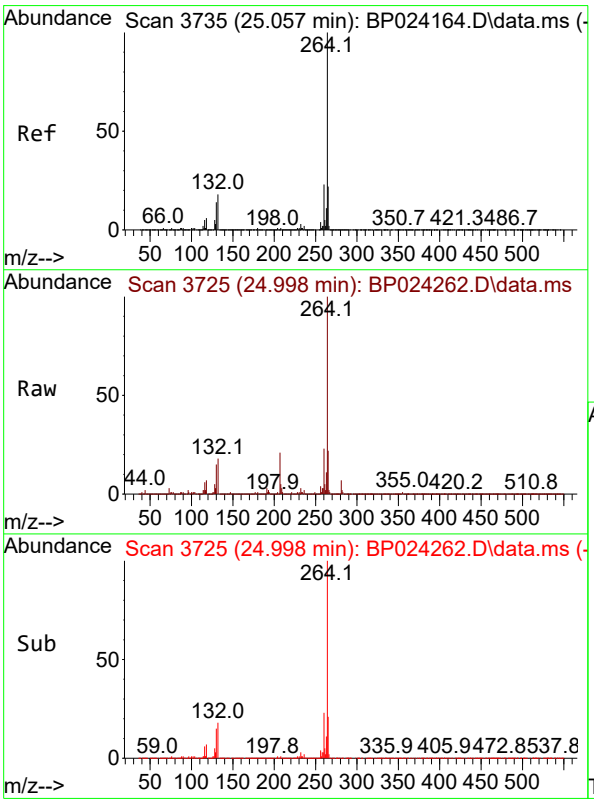
#79
Terphenyl-d14
Concen: 110.862 ng
RT: 19.916 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:244 Resp: 6111210

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	11.4	9.6	14.4

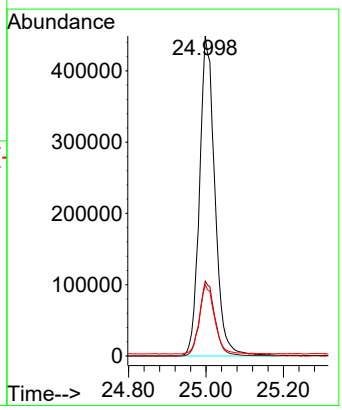




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.998 min Scan# 3725
Delta R.T. -0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:264 Resp: 1235221

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.5	27.7
265	22.2	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024267.D
Acq On : 11 Apr 2025 15:40
Operator : RC/JU
Sample : Q1746-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Time: Apr 11 16:24:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

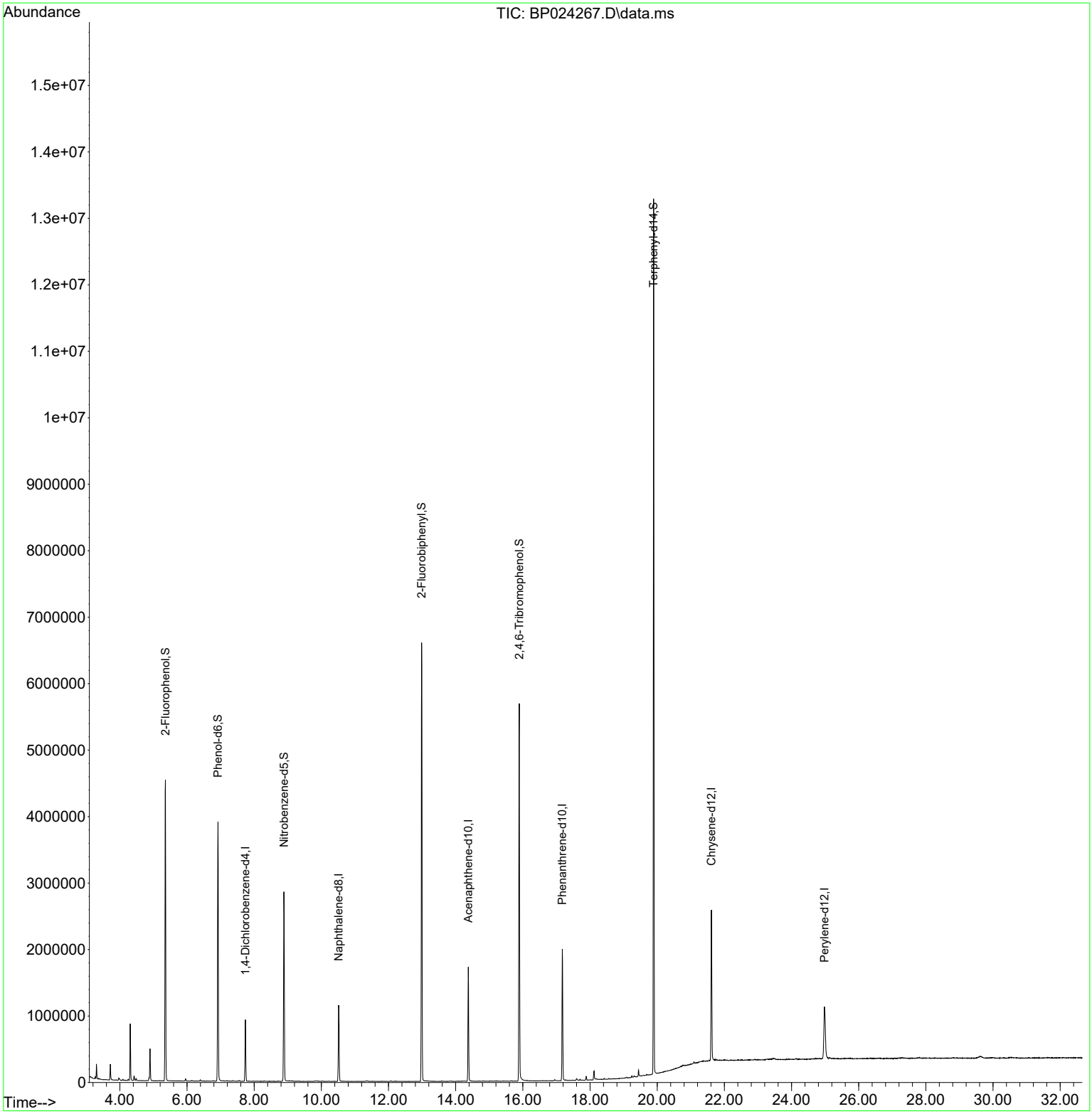
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	254775	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	995884	20.000	ng	-0.01
39) Acenaphthene-d10	14.375	164	565210	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1205781	20.000	ng	-0.02
76) Chrysene-d12	21.616	240	1337101	20.000	ng	-0.03
86) Perylene-d12	24.980	264	684982	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	2072573	129.856	ng	0.00
7) Phenol-d6	6.922	99	2381700	111.590	ng	0.00
23) Nitrobenzene-d5	8.887	82	1640915	92.965	ng	0.00
42) 2,4,6-Tribromophenol	15.892	330	1179980	165.738	ng	0.00
45) 2-Fluorobiphenyl	12.987	172	3471386	90.562	ng	-0.01
79) Terphenyl-d14	19.892	244	6354830	98.106	ng	-0.02
Target Compounds						Qvalue

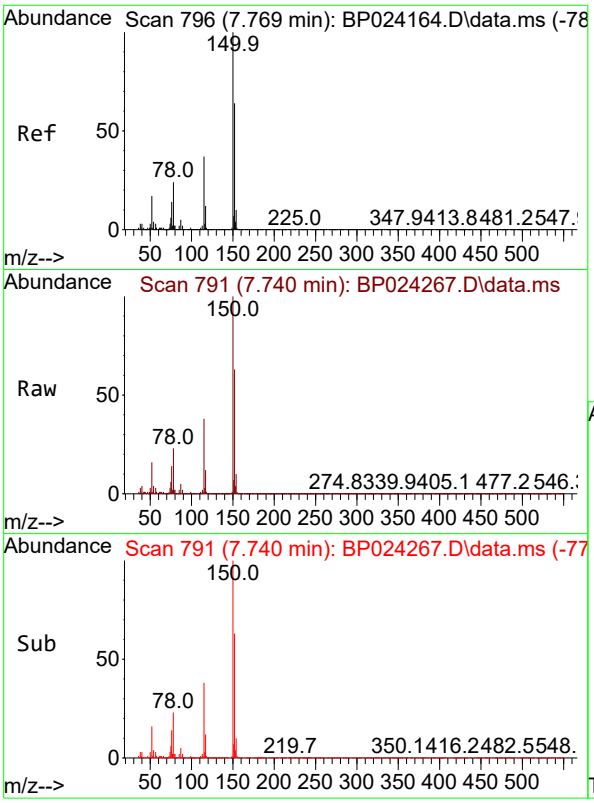
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024267.D
Acq On : 11 Apr 2025 15:40
Operator : RC/JU
Sample : Q1746-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Quant Time: Apr 11 16:24:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



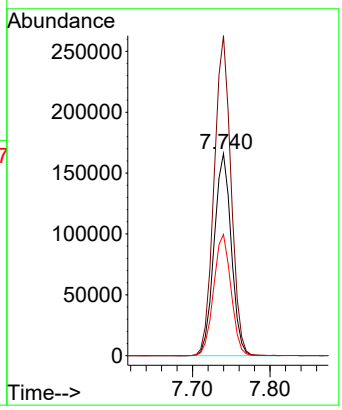


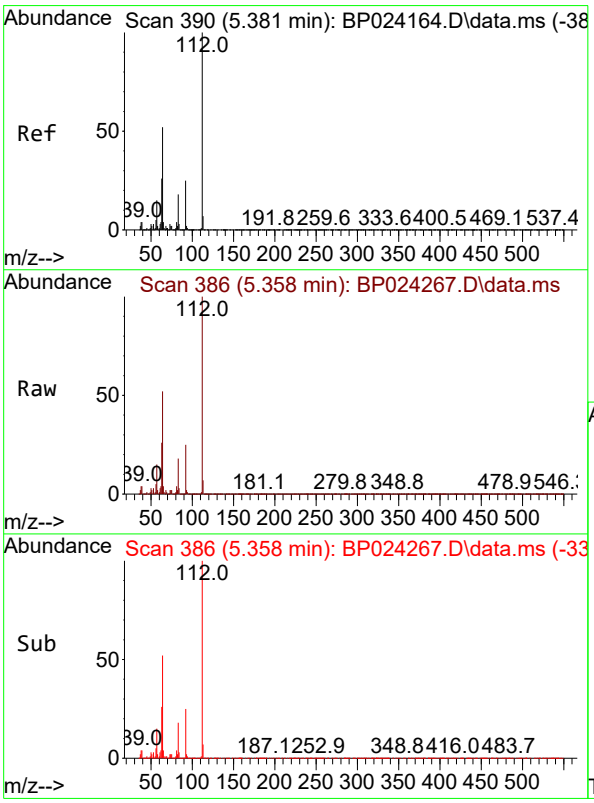
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:152 Resp: 254775

Ion	Ratio	Lower	Upper
152	100		
150	158.3	125.5	188.3
115	60.0	46.3	69.5

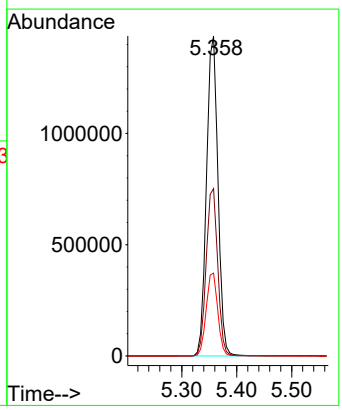


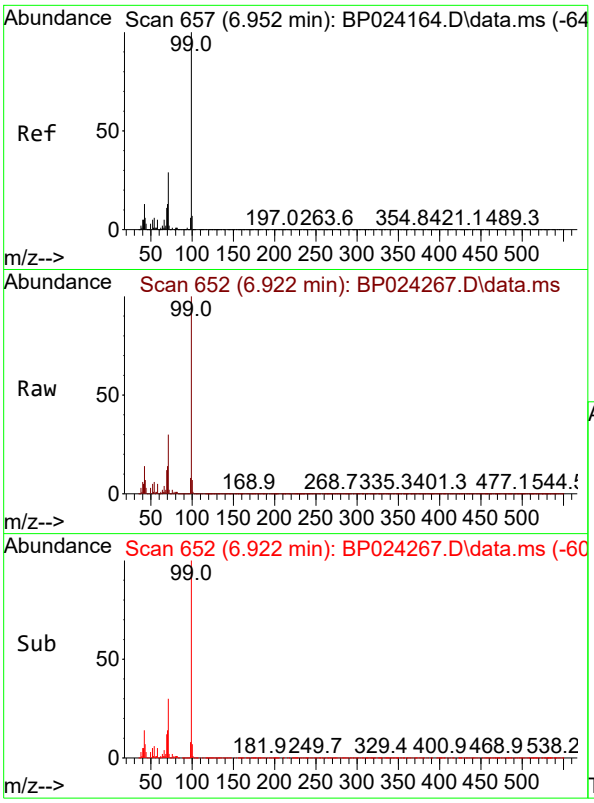


#5
2-Fluorophenol
Concen: 129.856 ng
RT: 5.358 min Scan# 386
Delta R.T. 0.000 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Tgt Ion:112 Resp: 2072573

Ion	Ratio	Lower	Upper
112	100		
64	52.3	41.3	61.9
63	25.9	20.6	31.0



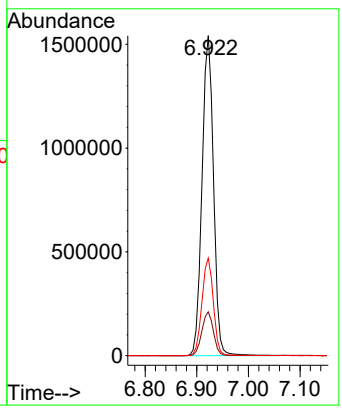


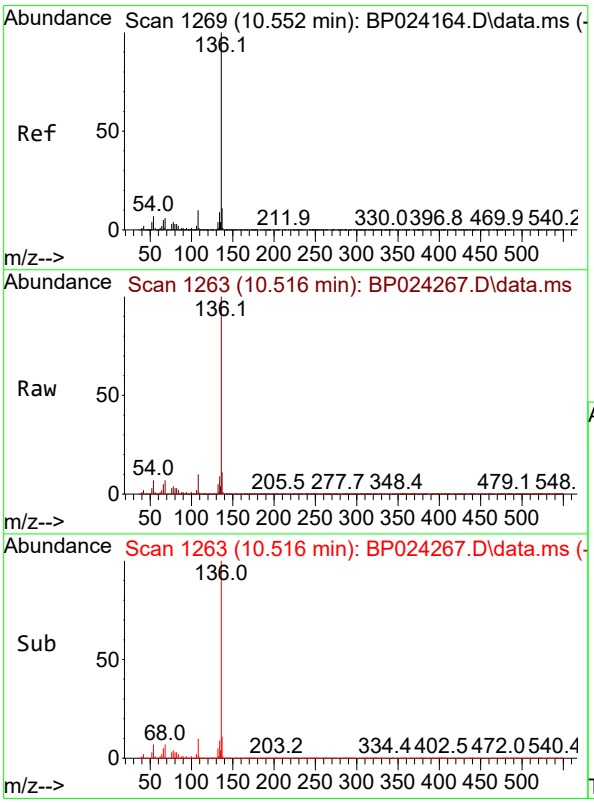
#7
Phenol-d6
Concen: 111.590 ng
RT: 6.922 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion: 99 Resp: 2381700

Ion	Ratio	Lower	Upper
99	100		
42	13.7	10.6	16.0
71	30.5	23.3	34.9

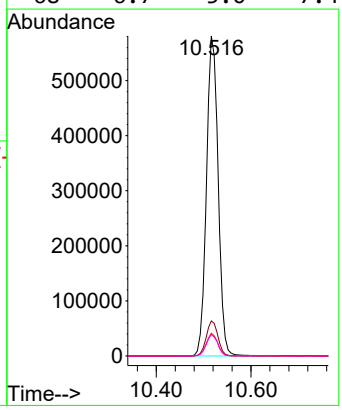


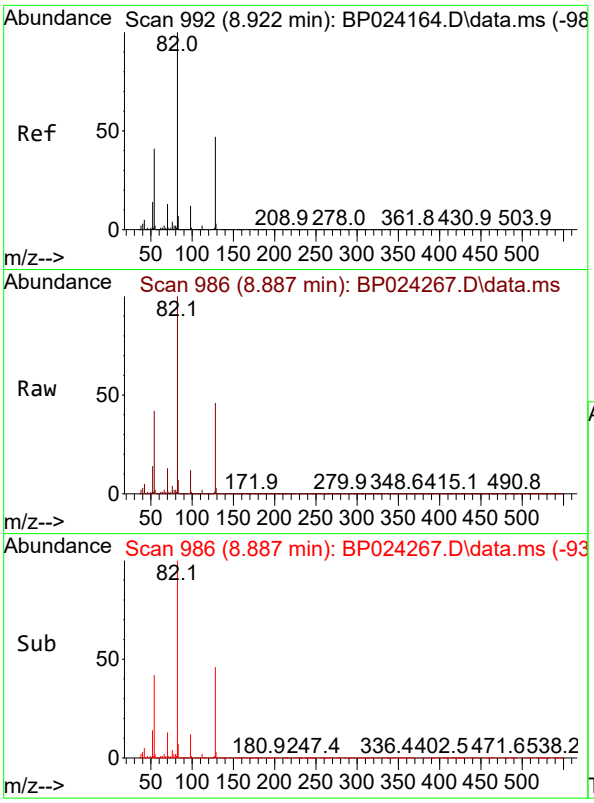


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.012 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Tgt Ion:136 Resp: 995884

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.1	5.3	7.9
68	6.7	5.0	7.4



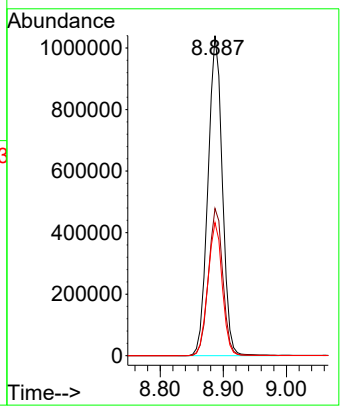


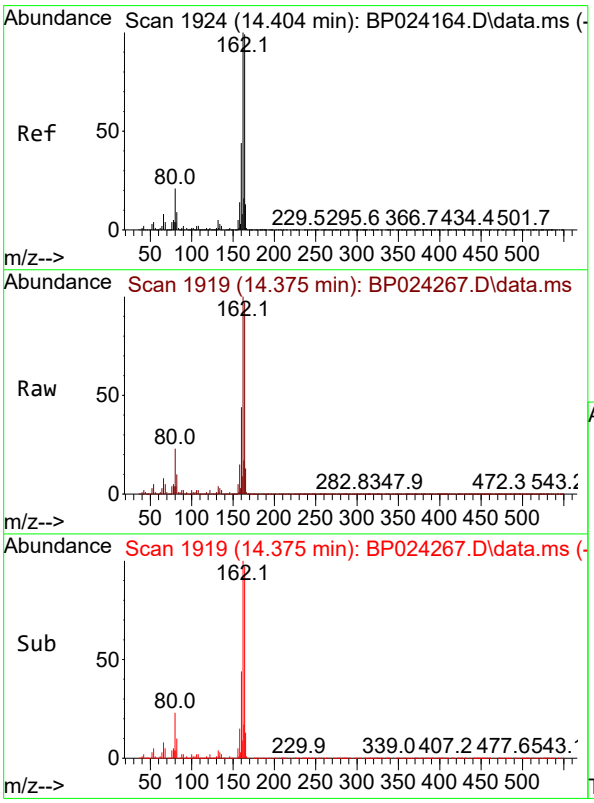
#23
Nitrobenzene-d5
Concen: 92.965 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion: 82 Resp: 1640915

Ion	Ratio	Lower	Upper
82	100		
128	46.0	37.4	56.0
54	41.6	32.5	48.7

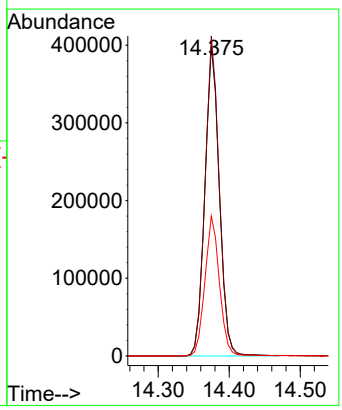


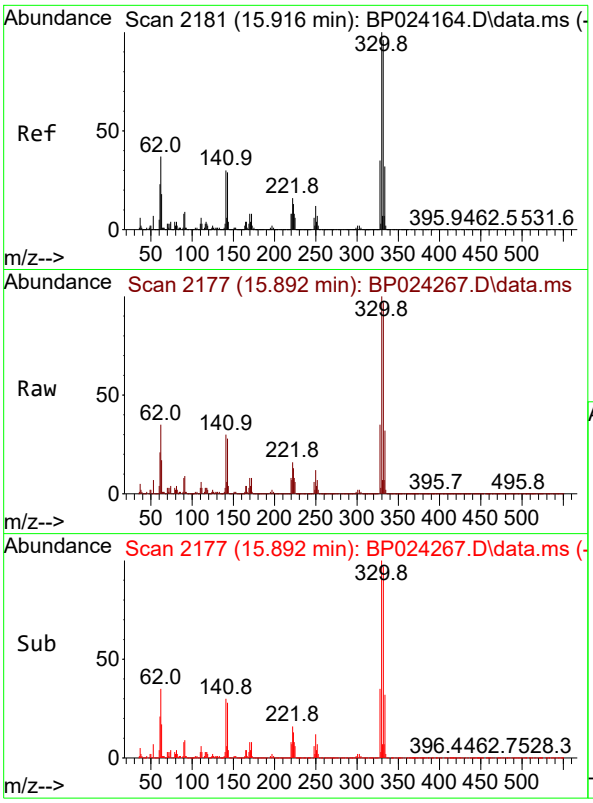


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.375 min Scan# 1919
Delta R.T. -0.018 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Tgt Ion:164 Resp: 565210

Ion	Ratio	Lower	Upper
164	100		
162	103.2	80.6	121.0
160	45.2	35.4	53.2



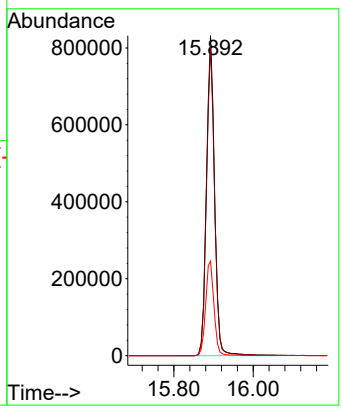


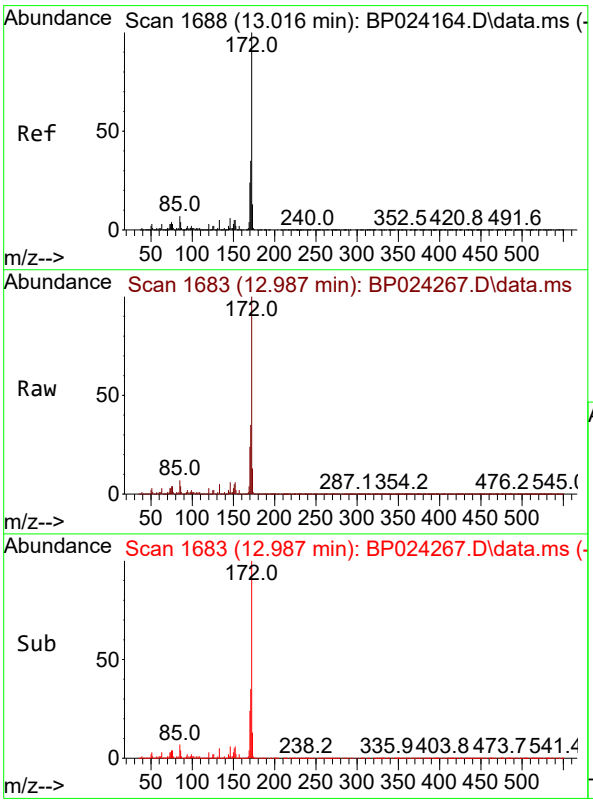
#42
2,4,6-Tribromophenol
Concen: 165.738 ng
RT: 15.892 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:330 Resp: 1179980

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	30.6	25.0	37.6

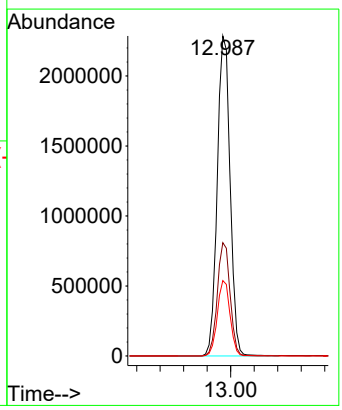


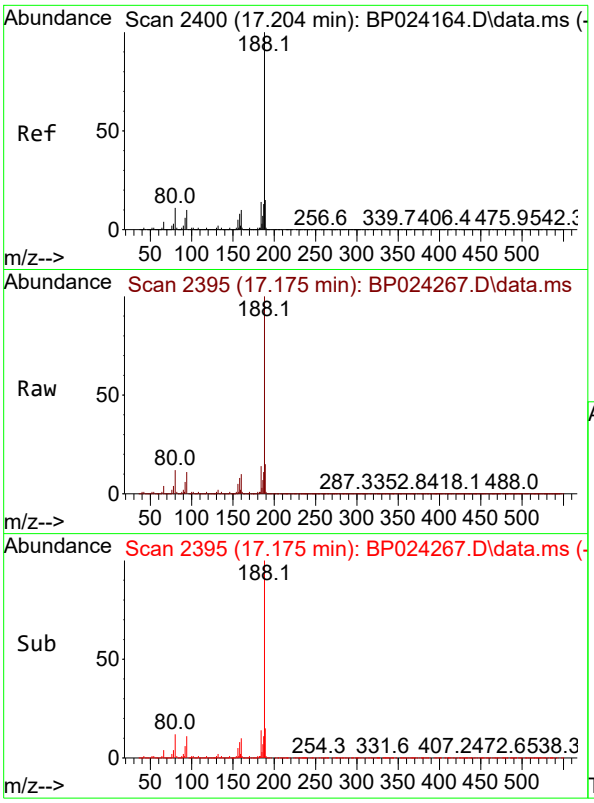


#45
2-Fluorobiphenyl
Concen: 90.562 ng
RT: 12.987 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Tgt Ion:172 Resp: 3471386

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.3	42.5
170	23.6	19.0	28.4



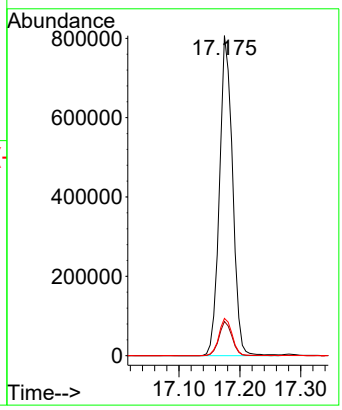


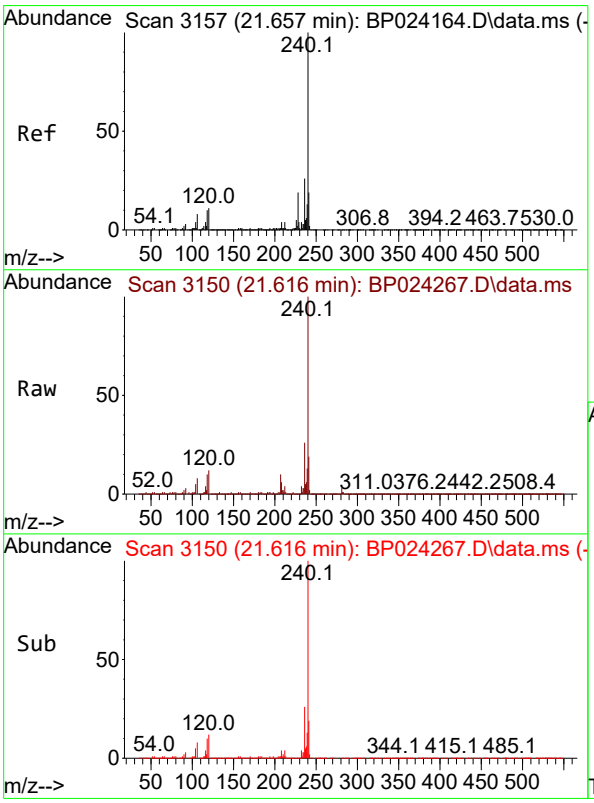
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.175 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:188 Resp: 1205781

Ion	Ratio	Lower	Upper
188	100		
94	10.7	8.1	12.1
80	11.6	8.9	13.3

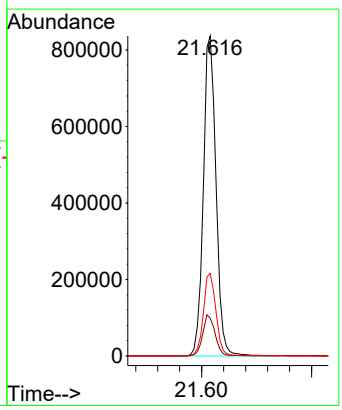


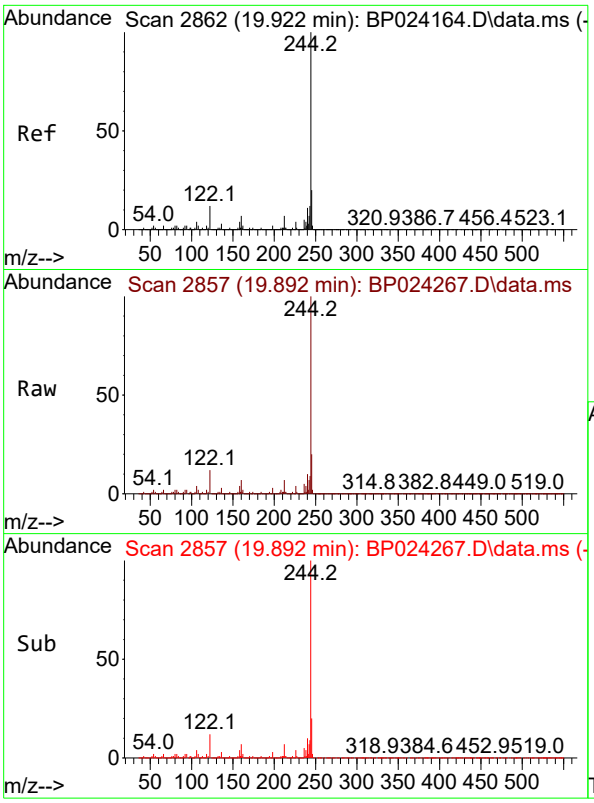


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.616 min Scan# 3150
Delta R.T. -0.029 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Tgt Ion:240 Resp: 1337101

Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.2	13.8
236	25.8	20.4	30.6



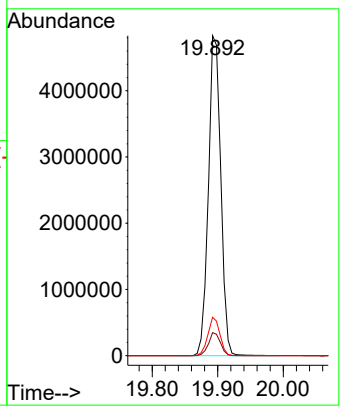


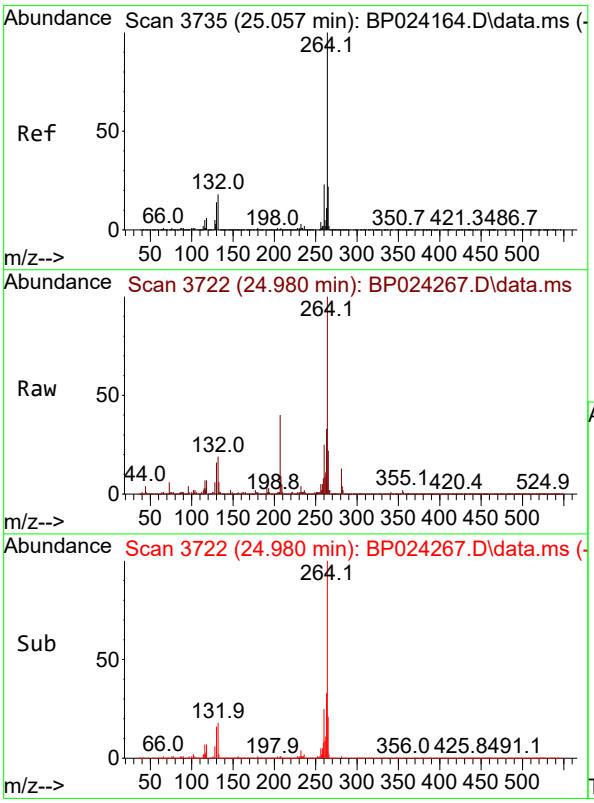
#79
Terphenyl-d14
Concen: 98.106 ng
RT: 19.892 min Scan# 2
Delta R.T. -0.023 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Instrument :
BNA_P
ClientSampleId :
B-149-SB01

Tgt Ion:244 Resp: 6354830

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.7	8.5
122	12.0	9.6	14.4

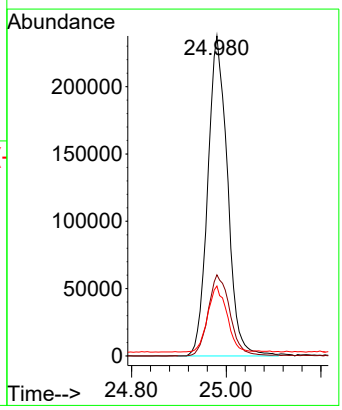




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.980 min Scan# 3722
Delta R.T. -0.029 min
Lab File: BP024267.D
Acq: 11 Apr 2025 15:40

Tgt Ion:264 Resp: 684982

Ion	Ratio	Lower	Upper
264	100		
260	25.3	18.5	27.7
265	21.8	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024268.D
Acq On : 11 Apr 2025 16:21
Operator : RC/JU
Sample : Q1746-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Quant Time: Apr 11 16:55:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

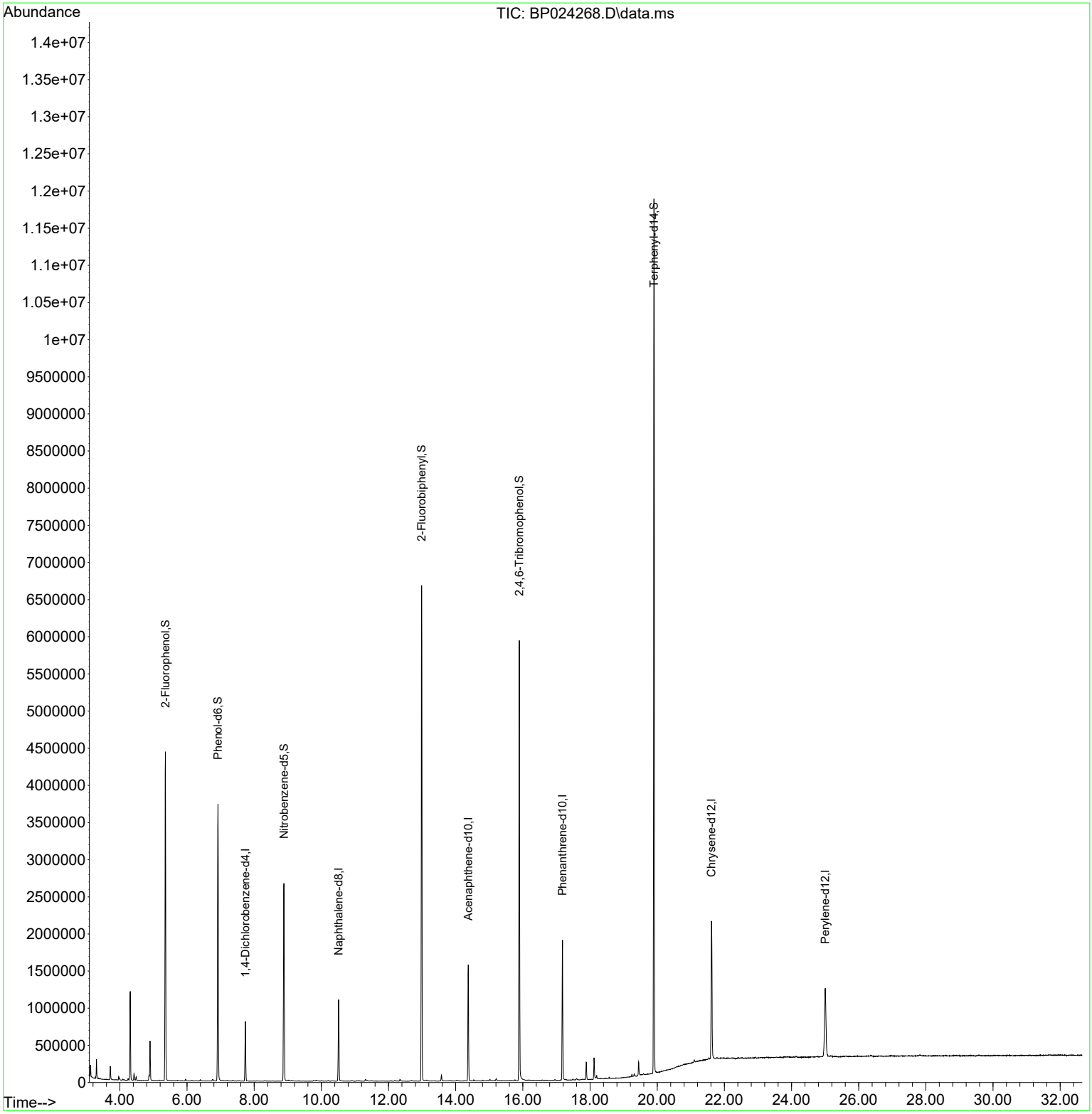
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	222405	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	876214	20.000	ng	-0.01
39) Acenaphthene-d10	14.375	164	518273	20.000	ng	-0.02
64) Phenanthrene-d10	17.181	188	1059909	20.000	ng	-0.01
76) Chrysene-d12	21.616	240	1221352	20.000	ng	-0.03
86) Perylene-d12	25.004	264	907401	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	1957936	140.528	ng	0.00
7) Phenol-d6	6.922	99	2267588	121.706	ng	0.00
23) Nitrobenzene-d5	8.887	82	1582990	101.932	ng	0.00
42) 2,4,6-Tribromophenol	15.892	330	1172684	179.631	ng	0.00
45) 2-Fluorobiphenyl	12.987	172	3394706	96.582	ng	-0.01
79) Terphenyl-d14	19.904	244	6440486	108.852	ng	-0.01
Target Compounds						Qvalue

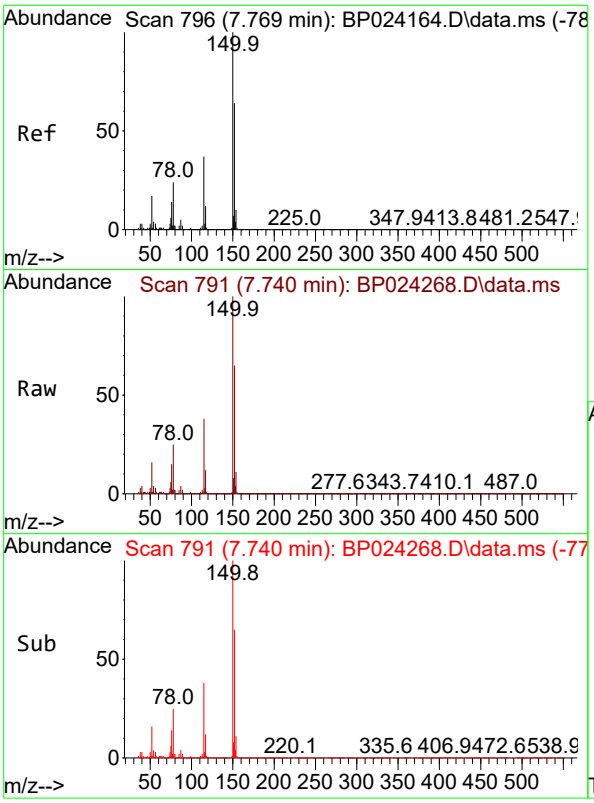
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024268.D
Acq On : 11 Apr 2025 16:21
Operator : RC/JU
Sample : Q1746-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Quant Time: Apr 11 16:55:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



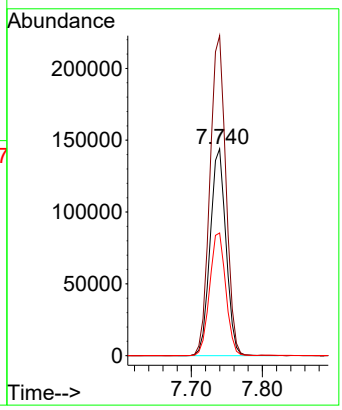


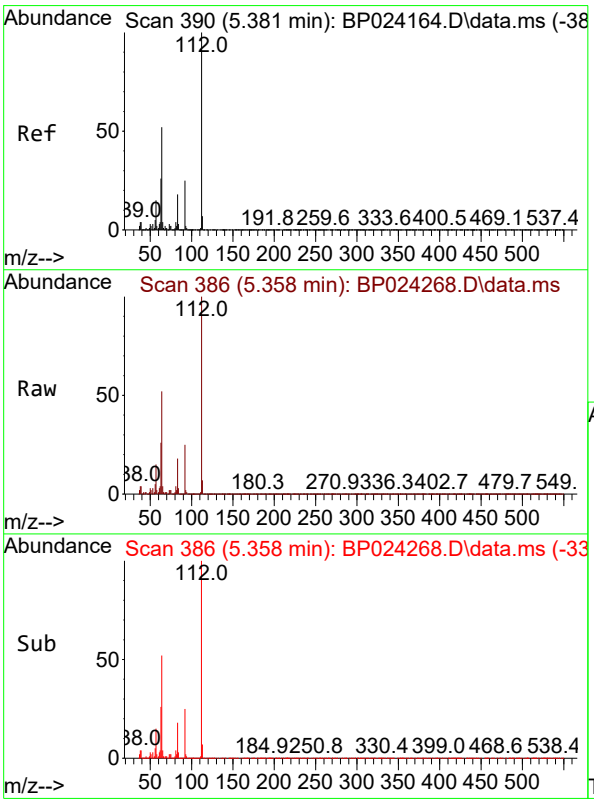
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Tgt Ion:152 Resp: 222405

Ion	Ratio	Lower	Upper
152	100		
150	154.6	125.5	188.3
115	59.3	46.3	69.5

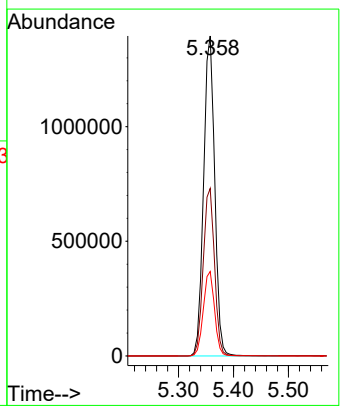


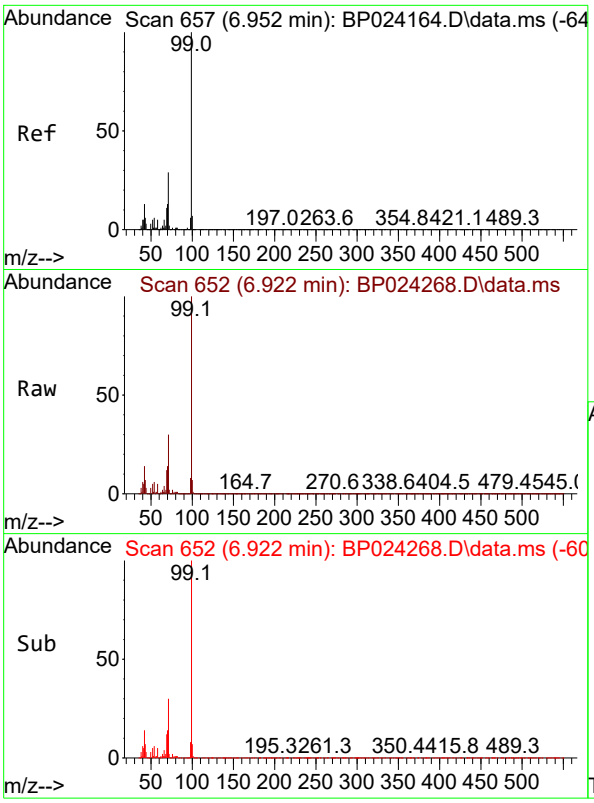


#5
2-Fluorophenol
Concen: 140.528 ng
RT: 5.358 min Scan# 386
Delta R.T. 0.000 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Tgt Ion:112 Resp: 1957936

Ion	Ratio	Lower	Upper
112	100		
64	52.4	41.3	61.9
63	26.4	20.6	31.0



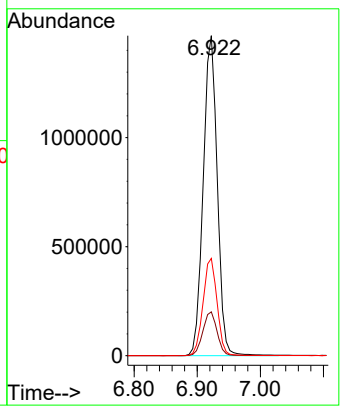


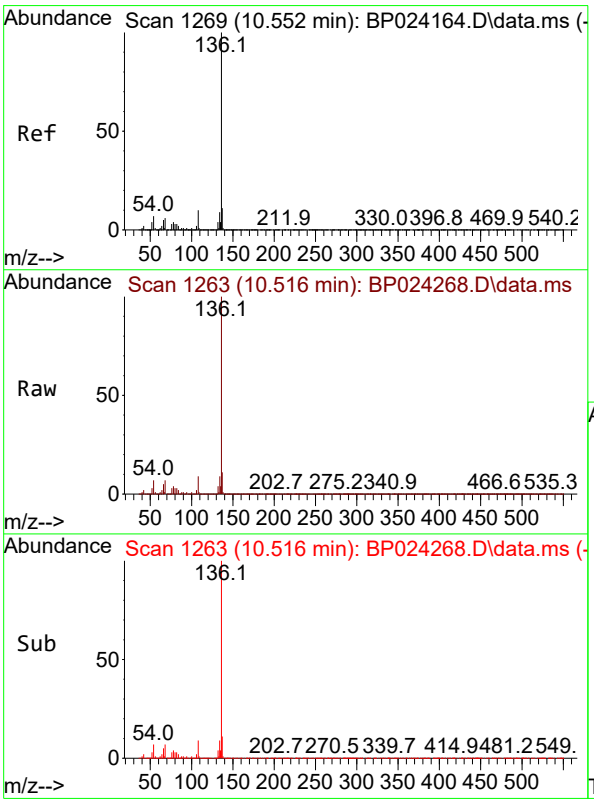
#7
Phenol-d6
Concen: 121.706 ng
RT: 6.922 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Tgt Ion: 99 Resp: 2267588

Ion	Ratio	Lower	Upper
99	100		
42	13.7	10.6	16.0
71	30.4	23.3	34.9

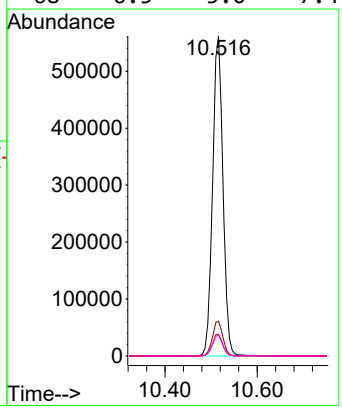


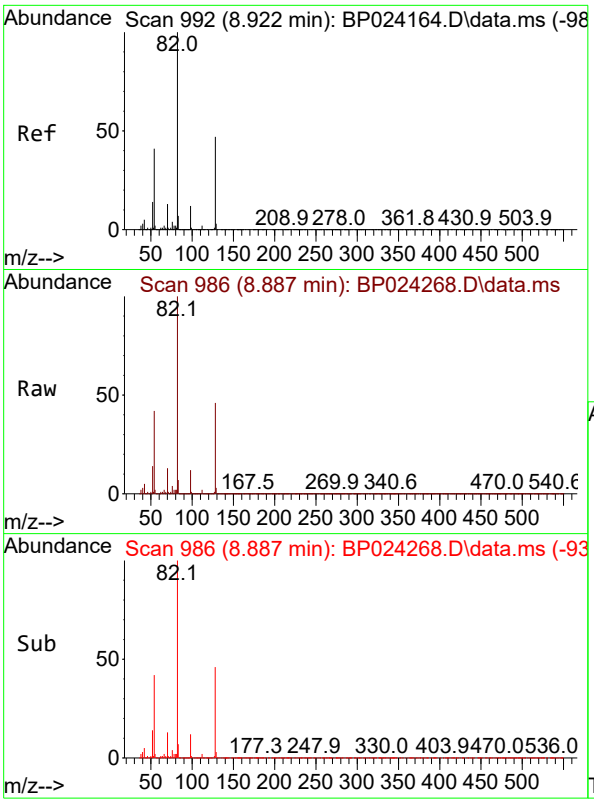


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.012 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Tgt Ion:136 Resp: 876214

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.7	5.3	7.9
68	6.5	5.0	7.4



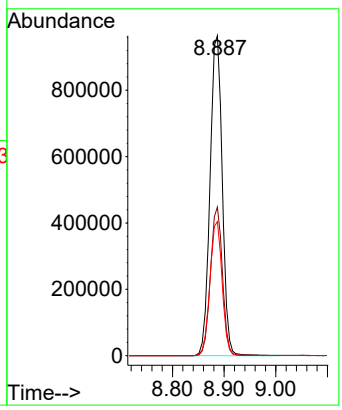


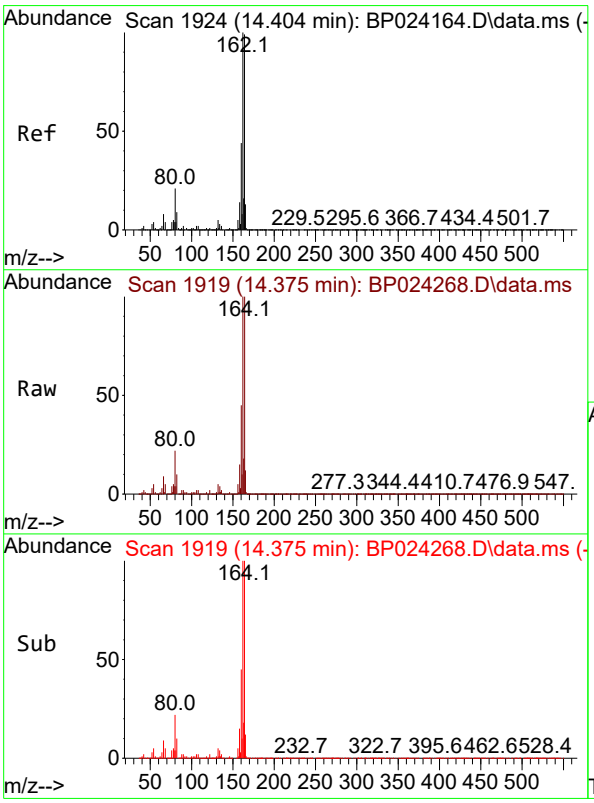
#23
Nitrobenzene-d5
Concen: 101.932 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Tgt Ion: 82 Resp: 1582990

Ion	Ratio	Lower	Upper
82	100		
128	46.5	37.4	56.0
54	41.9	32.5	48.7

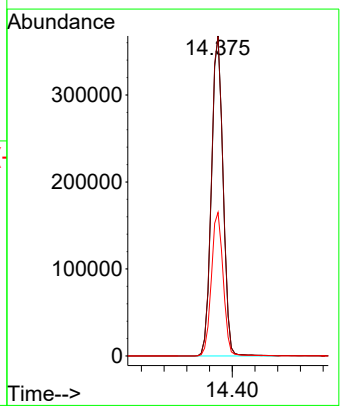


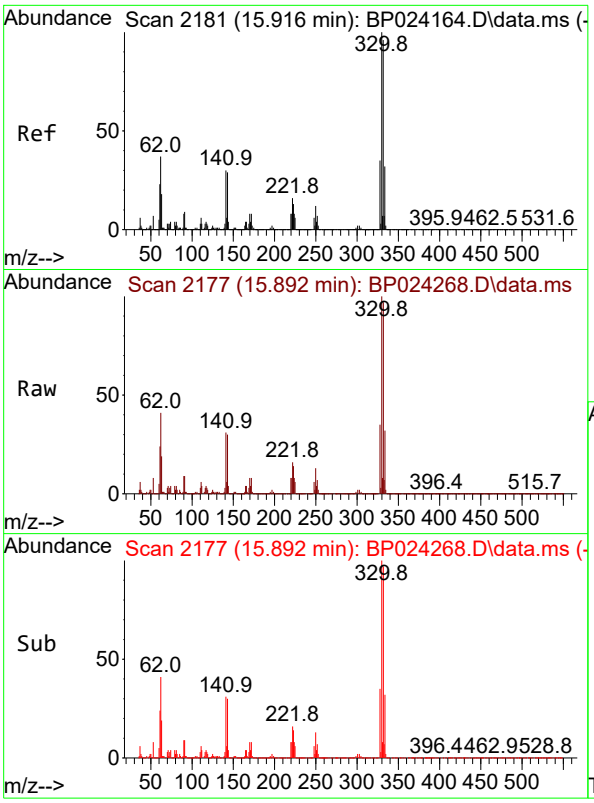


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.375 min Scan# 1919
Delta R.T. -0.018 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Tgt Ion:164 Resp: 518273

Ion	Ratio	Lower	Upper
164	100		
162	99.9	80.6	121.0
160	44.9	35.4	53.2



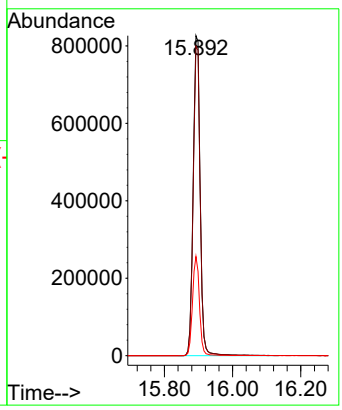


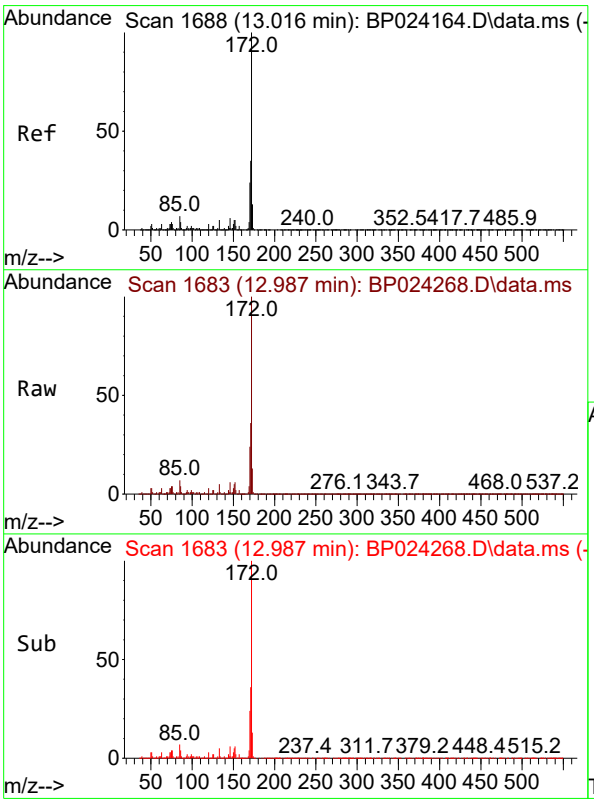
#42
2,4,6-Tribromophenol
Concen: 179.631 ng
RT: 15.892 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Tgt Ion:330 Resp: 1172684

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.6	116.4
141	30.8	25.0	37.6

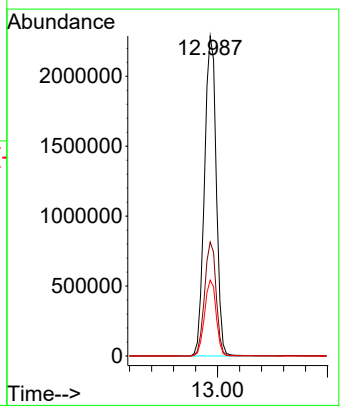


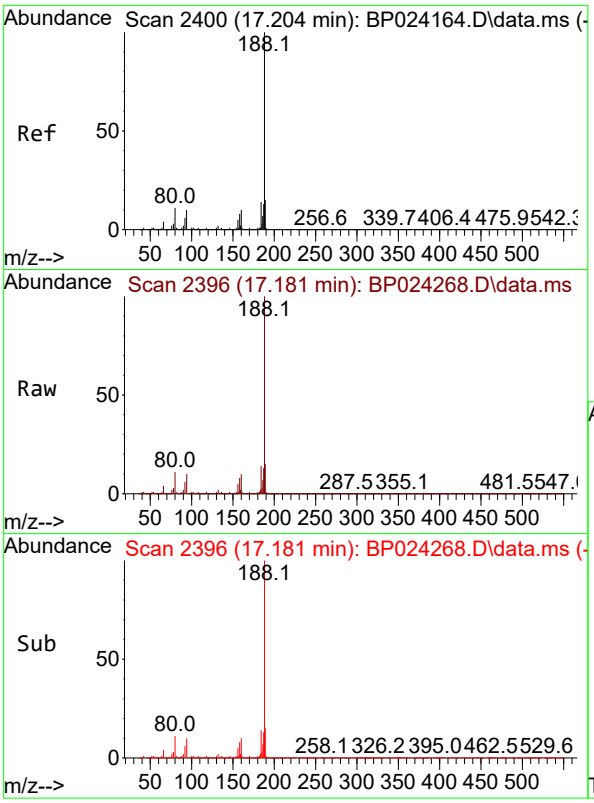


#45
2-Fluorobiphenyl
Concen: 96.582 ng
RT: 12.987 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Tgt Ion:172 Resp: 3394706

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.3	42.5
170	23.7	19.0	28.4



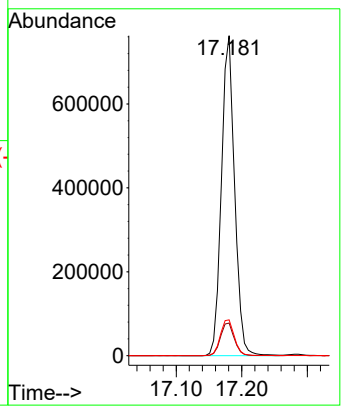


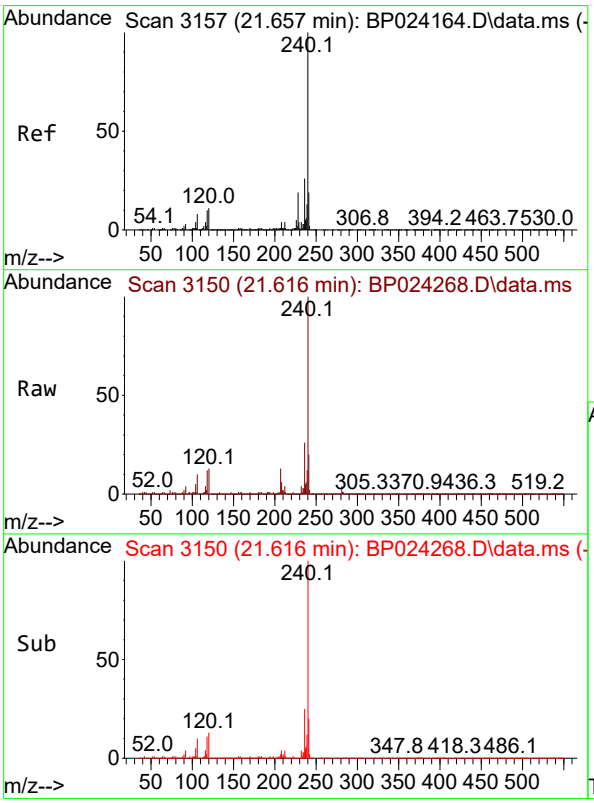
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.181 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Tgt Ion:188 Resp: 1059909

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.1	12.1
80	11.2	8.9	13.3

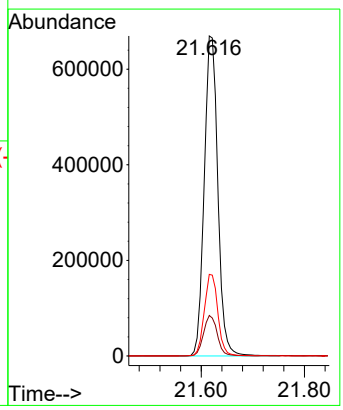


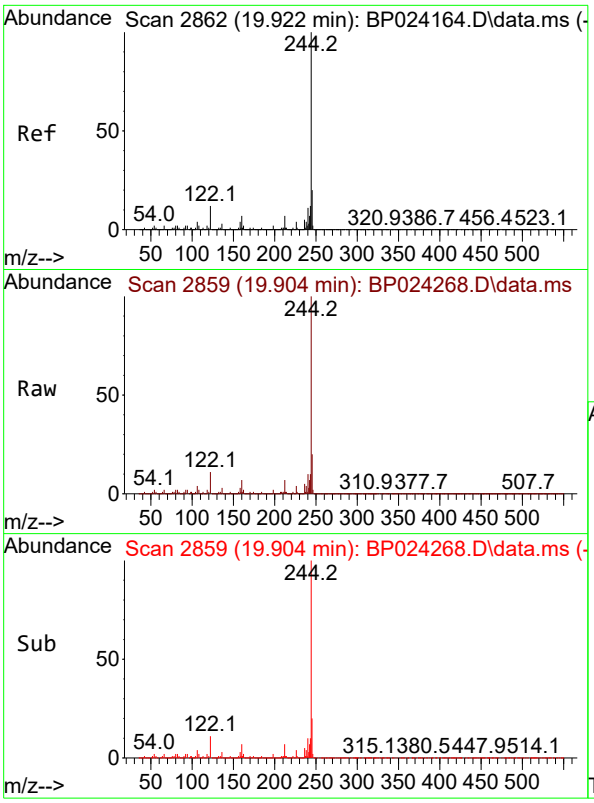


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.616 min Scan# 3150
Delta R.T. -0.029 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Tgt Ion:240 Resp: 1221352

Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	25.5	20.4	30.6



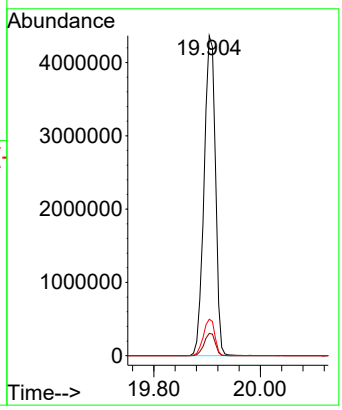


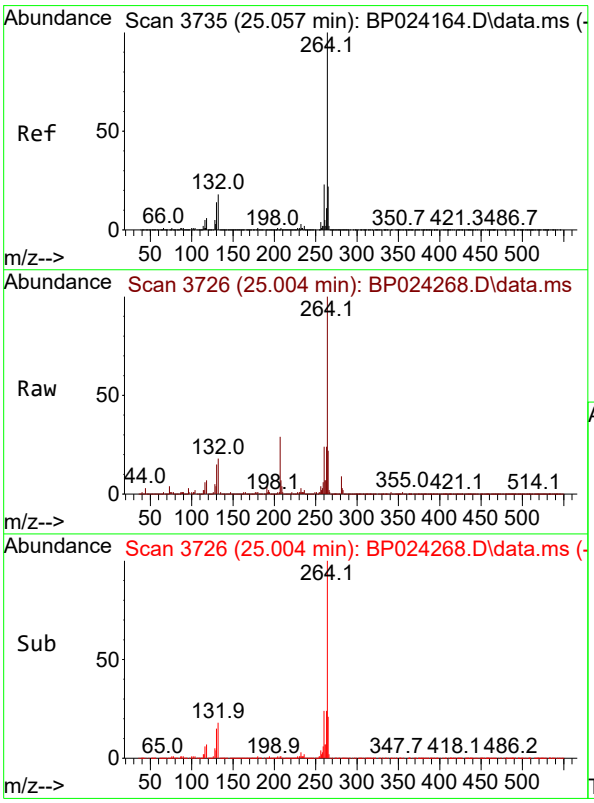
#79
Terphenyl-d14
Concen: 108.852 ng
RT: 19.904 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Instrument :
BNA_P
ClientSampleId :
B-149-SB02

Tgt Ion:244 Resp: 6440486

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	11.4	9.6	14.4

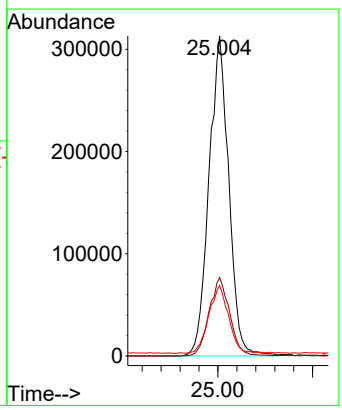




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.004 min Scan# 3726
Delta R.T. -0.006 min
Lab File: BP024268.D
Acq: 11 Apr 2025 16:21

Tgt Ion:264 Resp: 907401

Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.5	27.7
265	22.0	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024260.D
Acq On : 11 Apr 2025 10:23
Operator : RC/JU
Sample : PB167537BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Quant Time: Apr 11 11:44:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

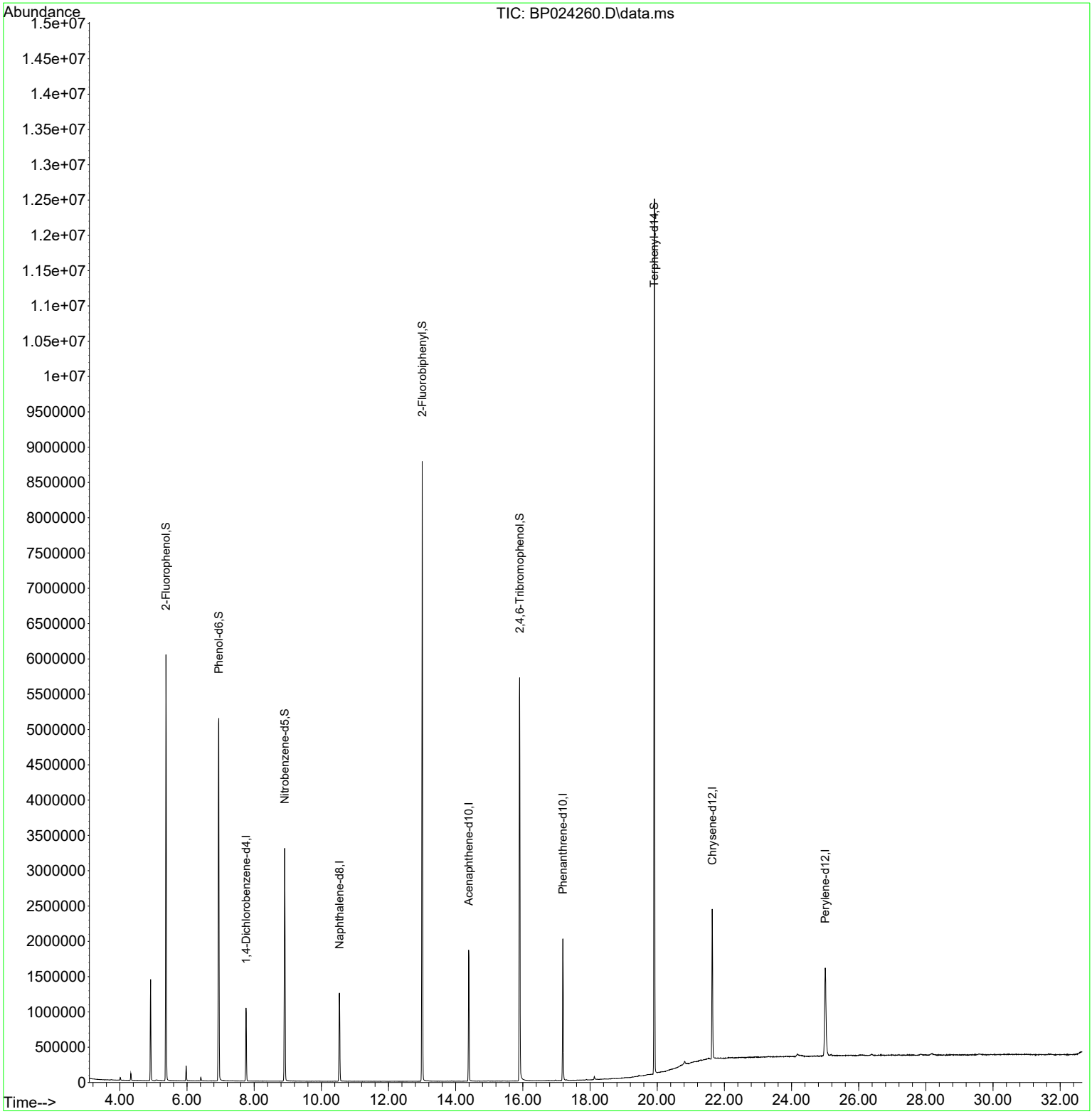
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.757	152	279458	20.000	ng	0.01
21) Naphthalene-d8	10.540	136	1100931	20.000	ng	0.01
39) Acenaphthene-d10	14.386	164	638188	20.000	ng	0.00
64) Phenanthrene-d10	17.192	188	1225652	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1255527	20.000	ng	0.00
86) Perylene-d12	25.003	264	1409207	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2704618	154.490	ng	0.02
7) Phenol-d6	6.946	99	3332016	142.326	ng	0.02
23) Nitrobenzene-d5	8.910	82	1999498	102.471	ng	0.02
42) 2,4,6-Tribromophenol	15.904	330	1311135	163.101	ng	0.00
45) 2-Fluorobiphenyl	13.004	172	4338513	100.241	ng	0.00
79) Terphenyl-d14	19.916	244	6507421	106.989	ng	0.00
Target Compounds						Qvalue

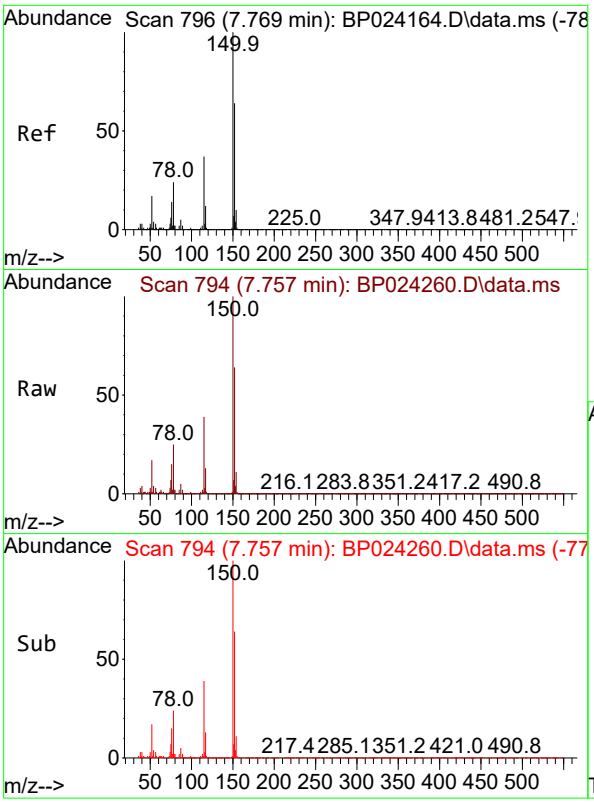
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024260.D
Acq On : 11 Apr 2025 10:23
Operator : RC/JU
Sample : PB167537BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Quant Time: Apr 11 11:44:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



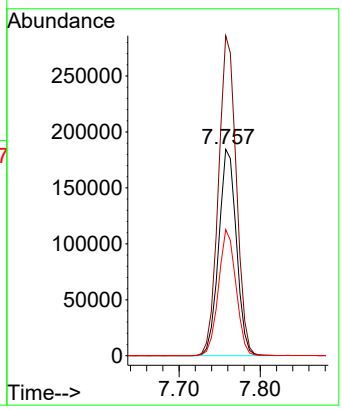


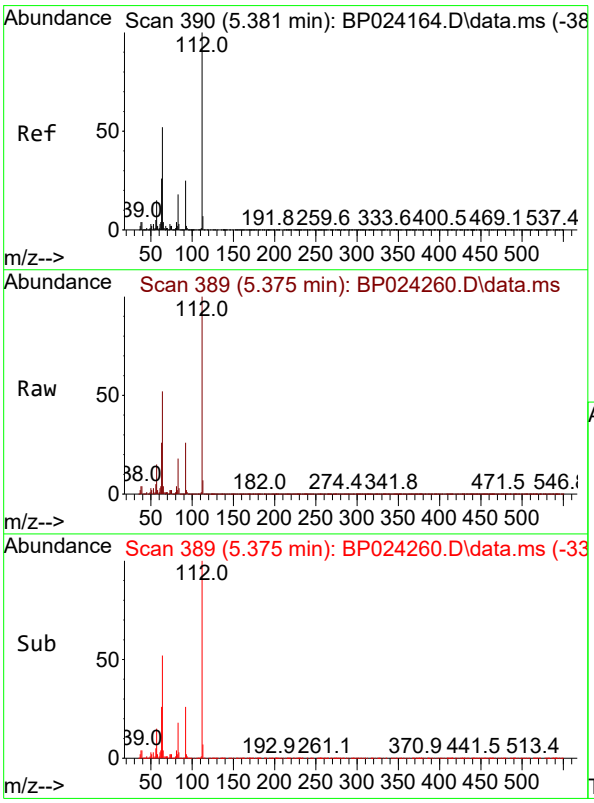
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. 0.011 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:152 Resp: 279458

Ion	Ratio	Lower	Upper
152	100		
150	155.0	125.5	188.3
115	61.1	46.3	69.5

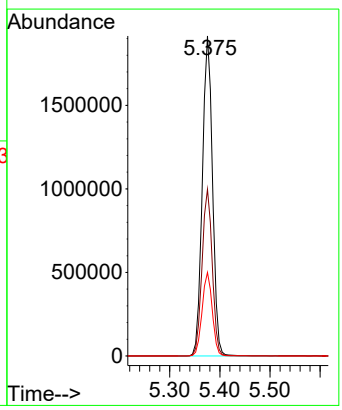


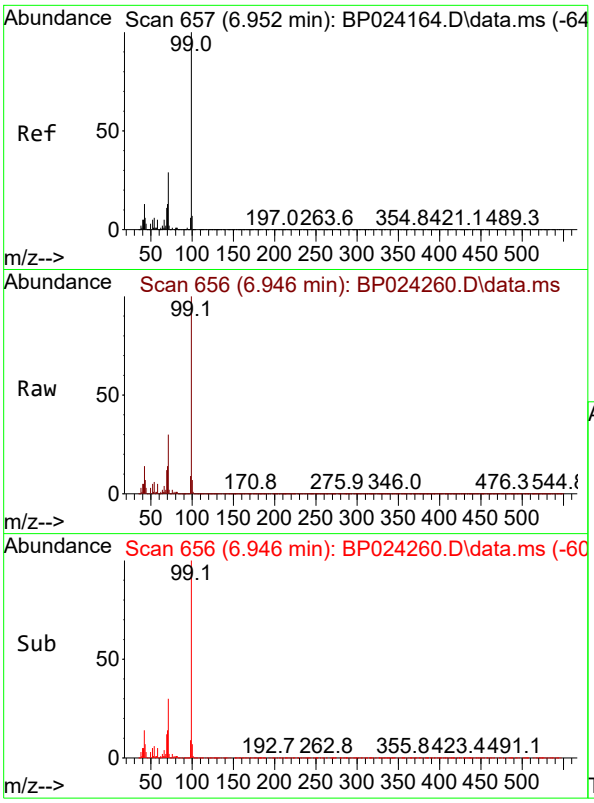


#5
2-Fluorophenol
Concen: 154.490 ng
RT: 5.375 min Scan# 389
Delta R.T. 0.018 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:112 Resp: 2704618

Ion	Ratio	Lower	Upper
112	100		
64	52.1	41.3	61.9
63	26.1	20.6	31.0



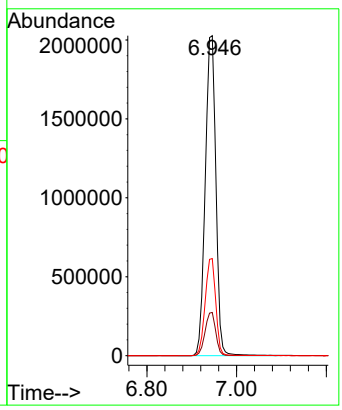


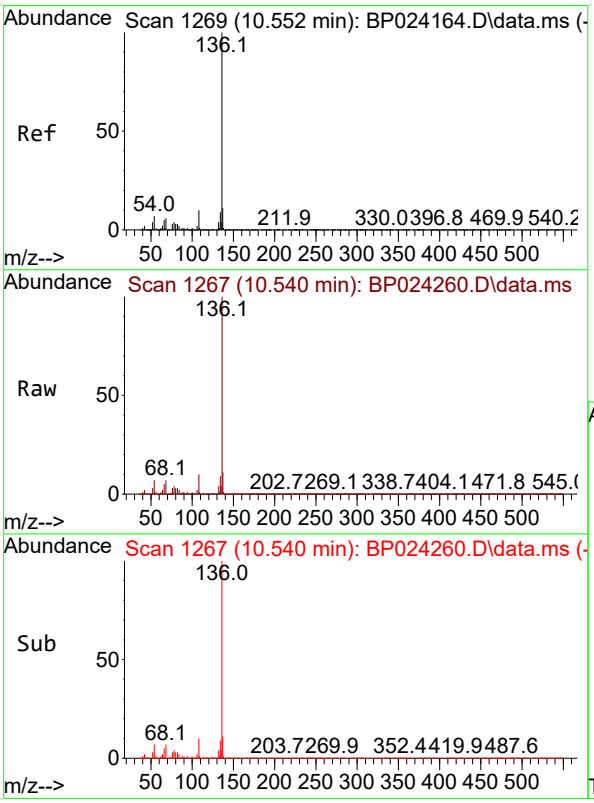
#7
Phenol-d6
Concen: 142.326 ng
RT: 6.946 min Scan# 6
Delta R.T. 0.018 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion: 99 Resp: 3332016

Ion	Ratio	Lower	Upper
99	100		
42	13.5	10.6	16.0
71	30.4	23.3	34.9

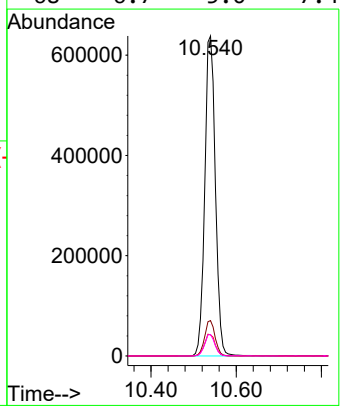


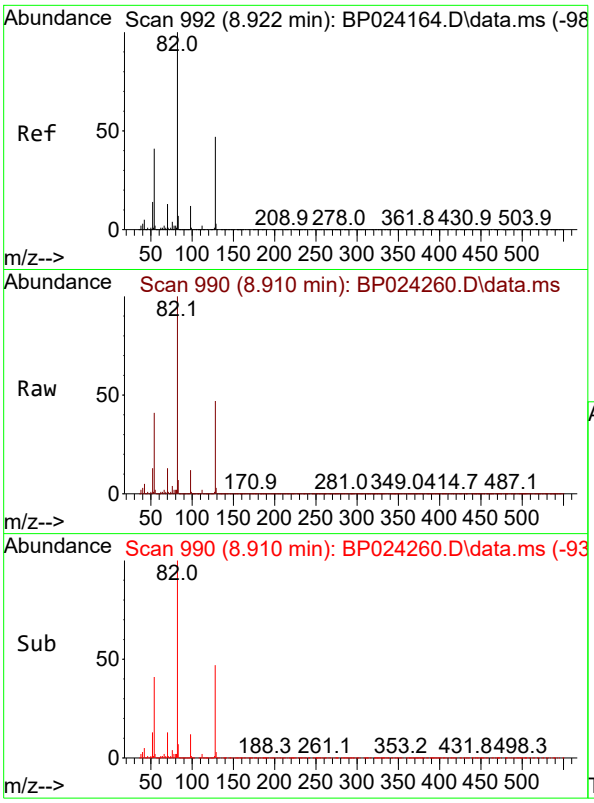


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.540 min Scan# 1267
Delta R.T. 0.012 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:136 Resp: 1100931

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	6.6	5.3	7.9
68	6.7	5.0	7.4



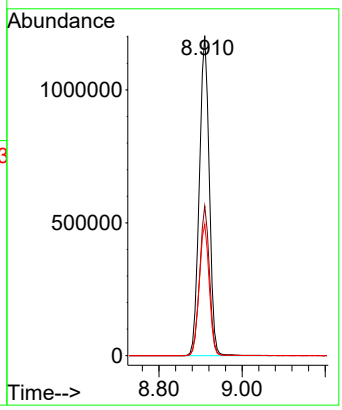


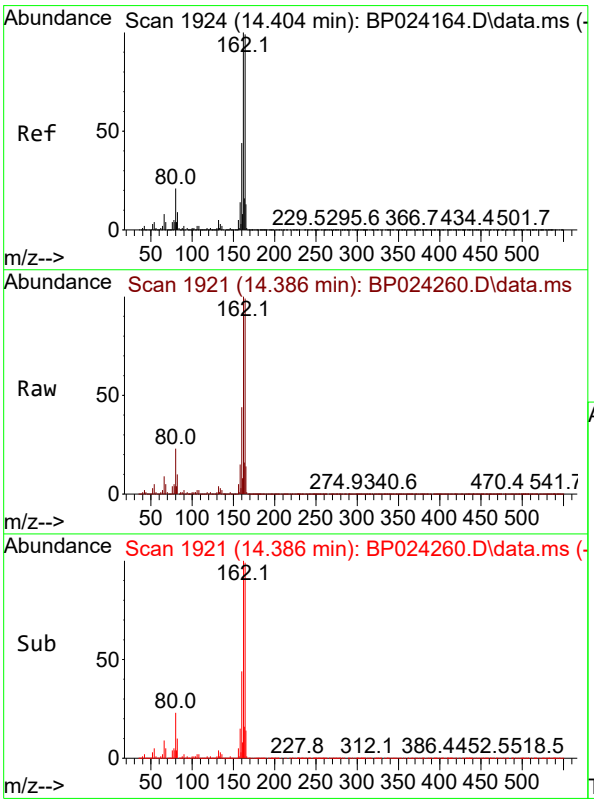
#23
Nitrobenzene-d5
Concen: 102.471 ng
RT: 8.910 min Scan# 9
Delta R.T. 0.018 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion: 82 Resp: 1999498

Ion	Ratio	Lower	Upper
82	100		
128	46.7	37.4	56.0
54	41.2	32.5	48.7

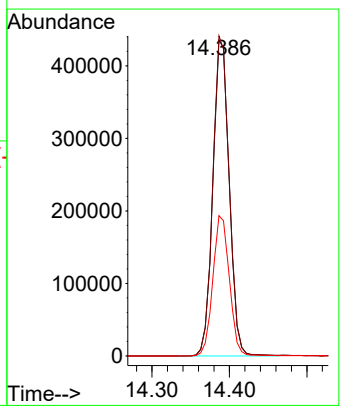


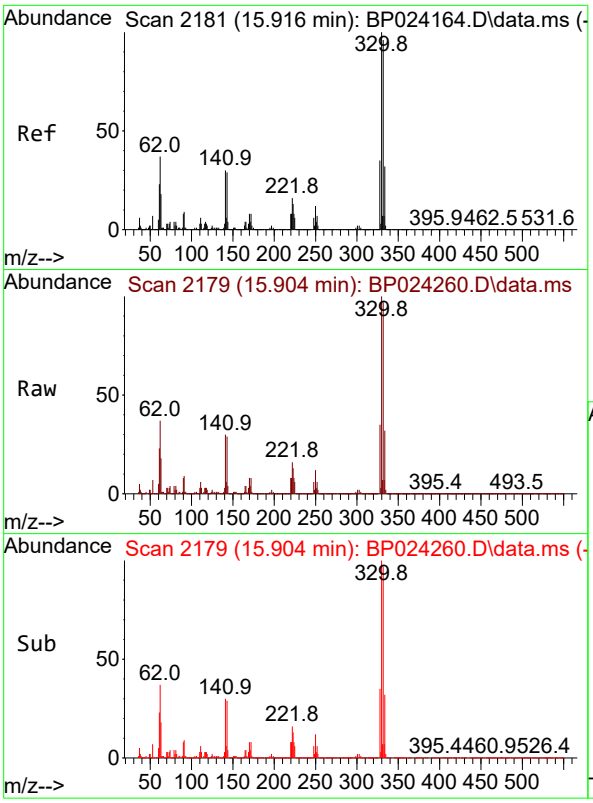


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.386 min Scan# 1921
Delta R.T. -0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:164 Resp: 638188

Ion	Ratio	Lower	Upper
164	100		
162	101.4	80.6	121.0
160	44.5	35.4	53.2



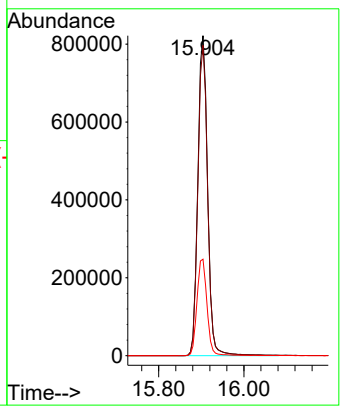


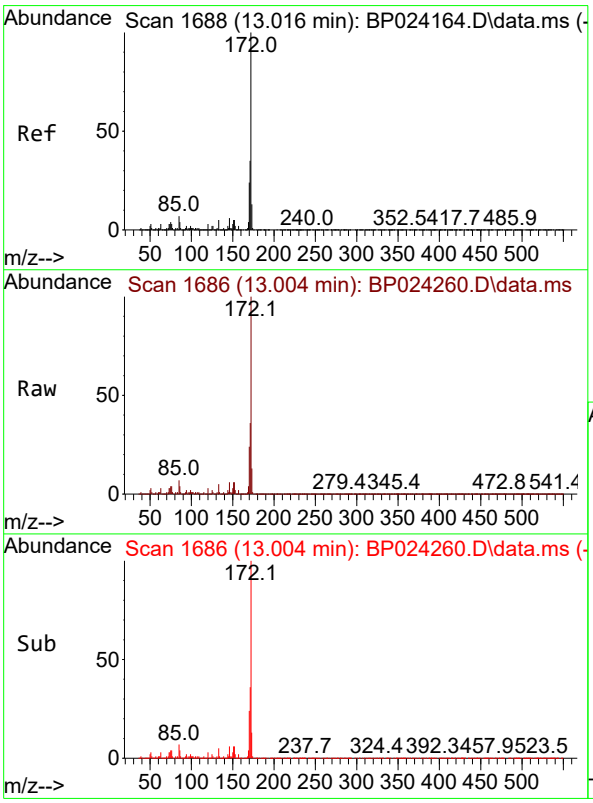
#42
2,4,6-Tribromophenol
Concen: 163.101 ng
RT: 15.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:330 Resp: 1311135

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.6	116.4
141	30.9	25.0	37.6

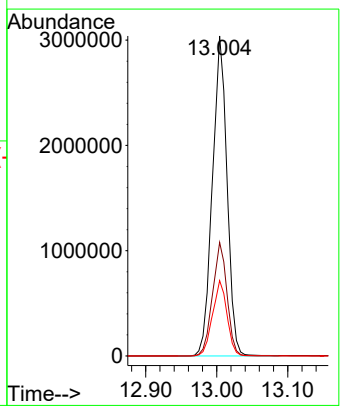


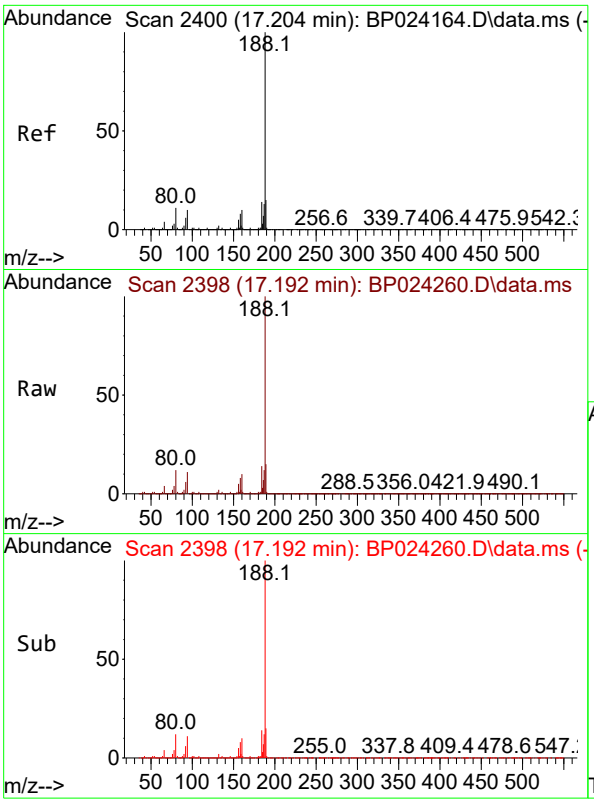


#45
2-Fluorobiphenyl
Concen: 100.241 ng
RT: 13.004 min Scan# 1686
Delta R.T. 0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:172 Resp: 4338513

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	23.6	19.0	28.4



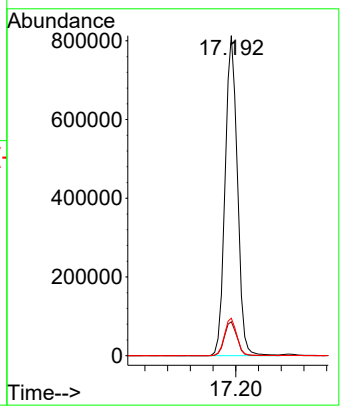


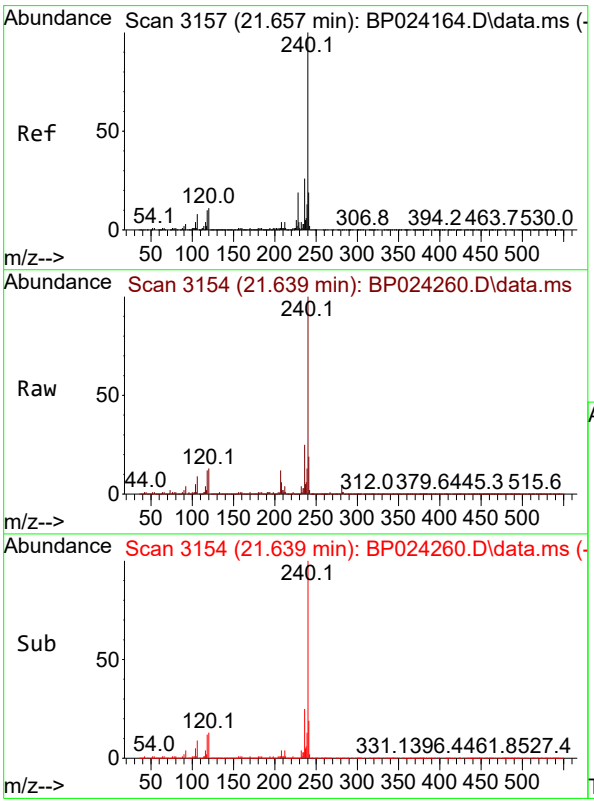
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:188 Resp: 1225652

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.1	12.1
80	11.7	8.9	13.3

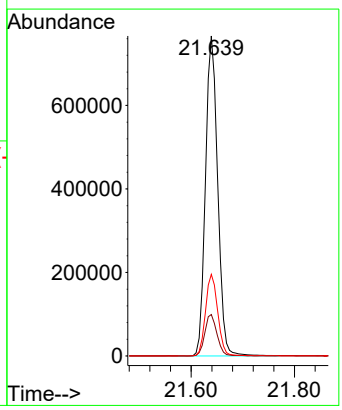


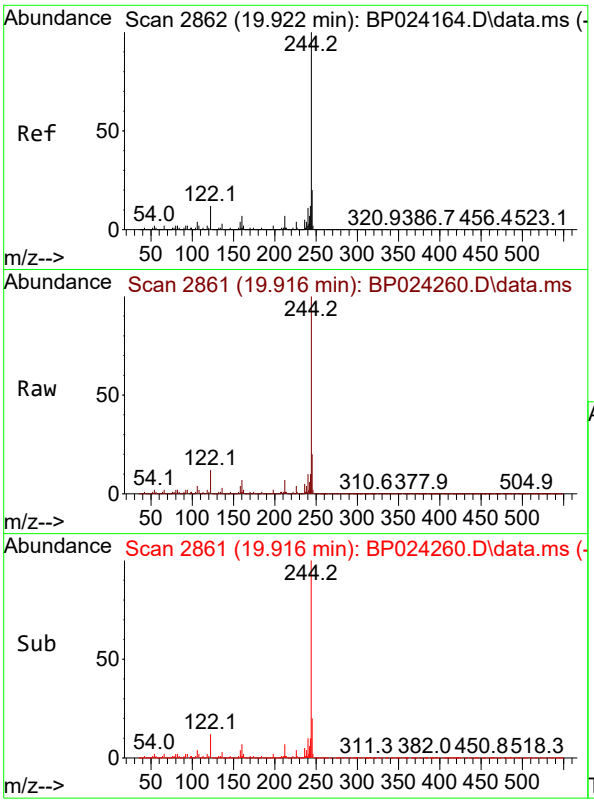


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:240 Resp: 1255527

Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	25.5	20.4	30.6



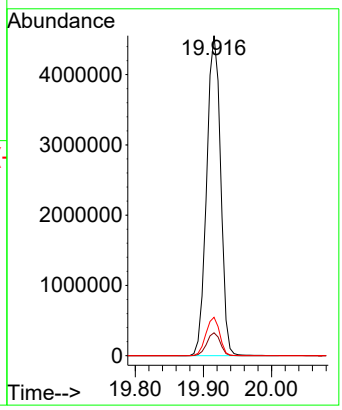


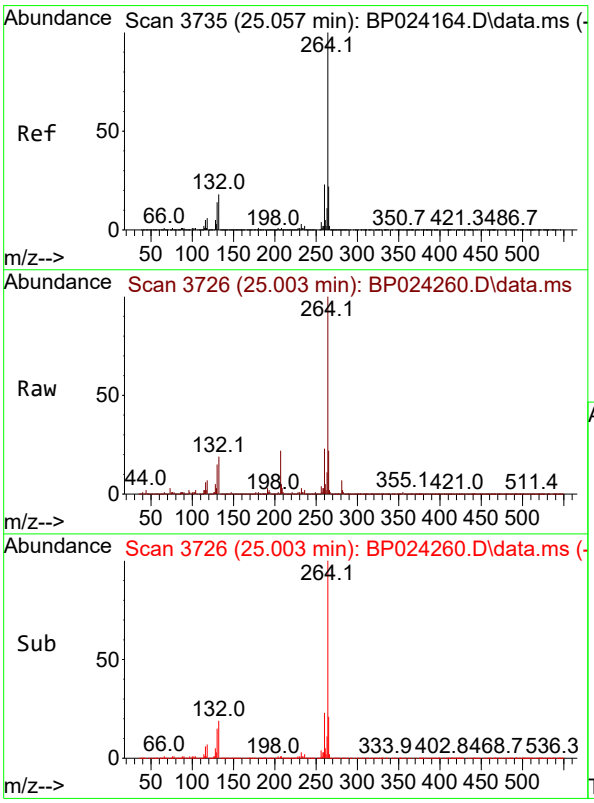
#79
Terphenyl-d14
Concen: 106.989 ng
RT: 19.916 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:244 Resp: 6507421

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.7	8.5
122	12.0	9.6	14.4

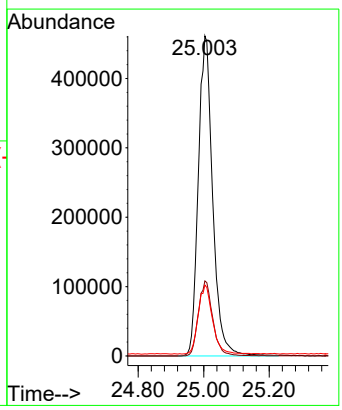




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.003 min Scan# 3726
Delta R.T. -0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:264 Resp: 1409207

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.5	27.7
265	22.1	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024261.D
Acq On : 11 Apr 2025 11:04
Operator : RC/JU
Sample : PB167537BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BS

Quant Time: Apr 11 11:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.757	152	252310	20.000	ng		0.01
21) Naphthalene-d8	10.534	136	1001041	20.000	ng		0.00
39) Acenaphthene-d10	14.387	164	619477	20.000	ng		0.00
64) Phenanthrene-d10	17.192	188	1216306	20.000	ng		0.00
76) Chrysene-d12	21.639	240	1332930	20.000	ng		0.00
86) Perylene-d12	25.015	264	1494830	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	2457503	155.478	ng		0.02
7) Phenol-d6	6.946	99	3088087	146.100	ng		0.02
23) Nitrobenzene-d5	8.904	82	1808569	101.935	ng		0.01
42) 2,4,6-Tribromophenol	15.904	330	1304316	167.154	ng		0.00
45) 2-Fluorobiphenyl	13.004	172	3979657	94.727	ng		0.00
79) Terphenyl-d14	19.916	244	6678080	103.419	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.317	88	275740	44.010	ng		96
3) Pyridine	3.705	79	729965	42.618	ng		97
4) n-Nitrosodimethylamine	3.616	42	284386	49.704	ng		99
6) Aniline	7.093	93	756103	39.262	ng		99
8) 2-Chlorophenol	7.328	128	883003	51.719	ng		98
9) Benzaldehyde	6.910	77	381416	37.393	ng		98
10) Phenol	6.969	94	1106401	51.852	ng		99
11) bis(2-Chloroethyl)ether	7.187	93	821599	48.826	ng		98
12) 1,3-Dichlorobenzene	7.652	146	919609	49.948	ng		100
13) 1,4-Dichlorobenzene	7.793	146	928493	49.392	ng		98
14) 1,2-Dichlorobenzene	8.110	146	890037	49.339	ng		99
15) Benzyl Alcohol	7.999	79	699969	52.308	ng		100
16) 2,2'-oxybis(1-Chloropr...	8.275	45	906561	52.787	ng		96
17) 2-Methylphenol	8.199	107	728420	54.439	ng		99
18) Hexachloroethane	8.828	117	335774	50.346	ng		98
19) n-Nitroso-di-n-propyla...	8.557	70	598100	48.775	ng		98
20) 3+4-Methylphenols	8.528	107	988752	53.787	ng		98
22) Acetophenone	8.575	105	1224869	48.398	ng	#	99
24) Nitrobenzene	8.951	77	895136	51.143	ng		100
25) Isophorone	9.475	82	1672734	55.000	ng		100
26) 2-Nitrophenol	9.651	139	452073	54.073	ng		99
27) 2,4-Dimethylphenol	9.716	122	809364	75.286	ng		98
28) bis(2-Chloroethoxy)met...	9.946	93	1078110	50.389	ng		99
29) 2,4-Dichlorophenol	10.187	162	773936	53.217	ng		98
30) 1,2,4-Trichlorobenzene	10.398	180	791203	49.242	ng		98
31) Naphthalene	10.587	128	2549853	48.052	ng		100
32) Benzoic acid	9.869	122	602900	57.503	ng		99
33) 4-Chloroaniline	10.698	127	353588	18.620	ng		99
34) Hexachlorobutadiene	10.869	225	462030	49.964	ng		99
35) Caprolactam	11.487	113	274543	57.601	ng		97
36) 4-Chloro-3-methylphenol	11.828	107	867963	55.324	ng		98
37) 2-Methylnaphthalene	12.198	142	1589529	44.340	ng		99
38) 1-Methylnaphthalene	12.416	142	1699342	48.737	ng		99
40) 1,2,4,5-Tetrachloroben...	12.569	216	852812	47.624	ng		99
41) Hexachlorocyclopentadiene	12.551	237	1234479	191.246	ng		98
43) 2,4,6-Trichlorophenol	12.810	196	611555	53.738	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024261.D
Acq On : 11 Apr 2025 11:04
Operator : RC/JU
Sample : PB167537BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BS

Quant Time: Apr 11 11:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

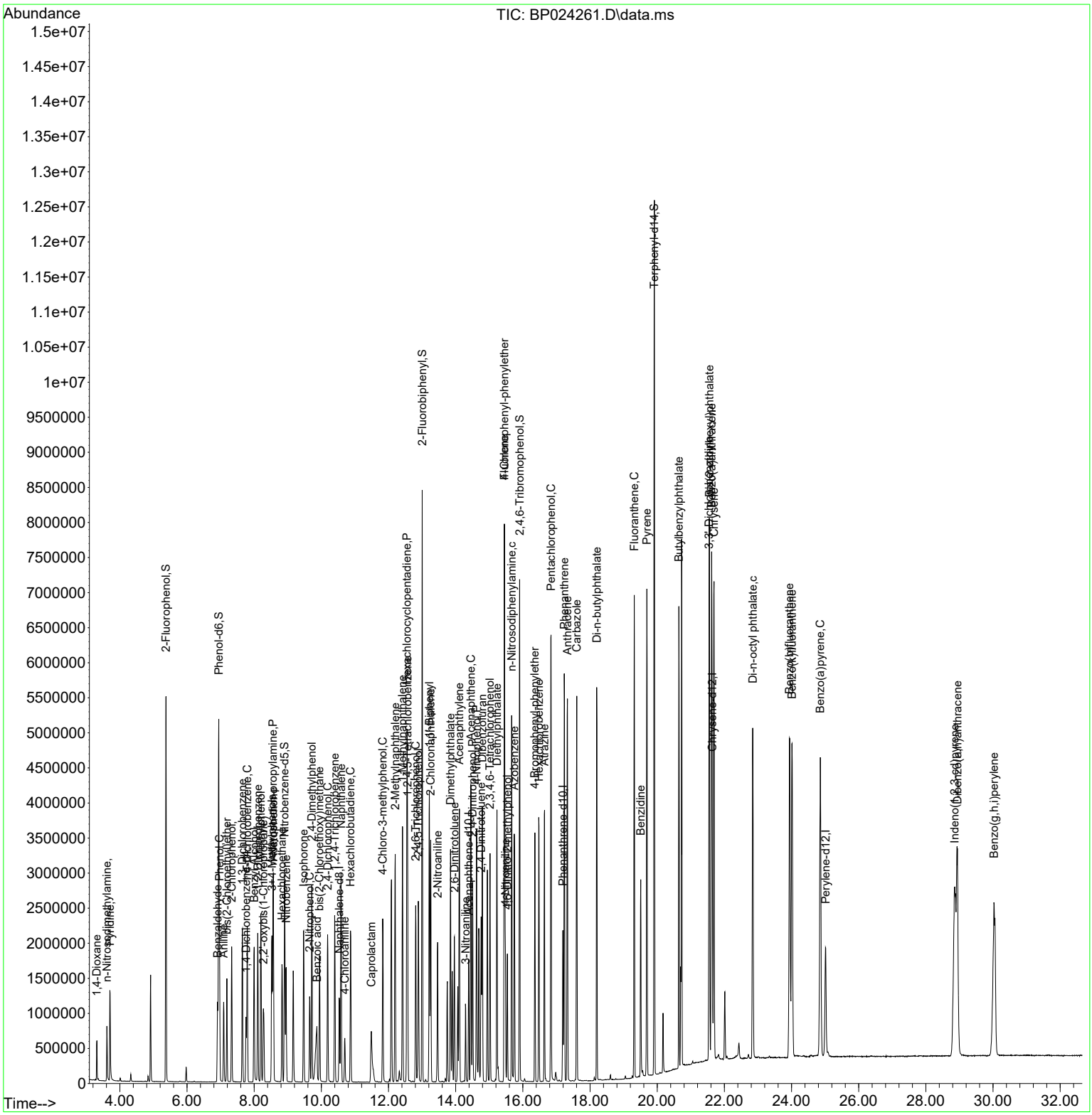
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.887	196	673077	53.930	ng	98
46) 1,1'-Biphenyl	13.216	154	2235200	48.016	ng	99
47) 2-Chloronaphthalene	13.257	162	1707493	48.766	ng	99
48) 2-Nitroaniline	13.463	65	519695	58.030	ng	98
49) Acenaphthylene	14.110	152	2903889	54.810	ng	100
50) Dimethylphthalate	13.845	163	2225271	51.337	ng	100
51) 2,6-Dinitrotoluene	13.963	165	490016	53.729	ng	99
52) Acenaphthene	14.451	154	1650394	48.755	ng	99
53) 3-Nitroaniline	14.298	138	269754	27.385	ng	97
54) 2,4-Dinitrophenol	14.504	184	646648	133.999	ng	95
55) Dibenzofuran	14.792	168	2622316	47.825	ng	98
56) 4-Nitrophenol	14.622	139	1034475	125.684	ng	96
57) 2,4-Dinitrotoluene	14.757	165	715389	59.384	ng	98
58) Fluorene	15.451	166	2154829	50.439	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.022	232	586898	53.225	ng	97
60) Diethylphthalate	15.228	149	2269853	52.585	ng	99
61) 4-Chlorophenyl-phenyle...	15.451	204	1029595	49.137	ng	98
62) 4-Nitroaniline	15.481	138	567626	54.943	ng	99
63) Azobenzene	15.745	77	2066101	50.784	ng	99
65) 4,6-Dinitro-2-methylph...	15.539	198	410813	56.894	ng	100
66) n-Nitrosodiphenylamine	15.669	169	1886274	51.070	ng	100
67) 4-Bromophenyl-phenylether	16.357	248	664537	49.763	ng	99
68) Hexachlorobenzene	16.481	284	796254	50.378	ng	99
69) Atrazine	16.645	200	672316	75.415	ng	99
70) Pentachlorophenol	16.839	266	1170265	114.492	ng	99
71) Phenanthrene	17.233	178	3387175	50.976	ng	100
72) Anthracene	17.328	178	3418770	52.827	ng	99
73) Carbazole	17.604	167	3357130	53.791	ng	99
74) Di-n-butylphthalate	18.198	149	4057764	54.769	ng	100
75) Fluoranthene	19.316	202	4030536	52.374	ng	99
77) Benzidine	19.510	184	1601060	109.861	ng	99
78) Pyrene	19.692	202	4153154	50.118	ng	100
80) Butylbenzylphthalate	20.645	149	1940623	56.788	ng	99
81) Benzo(a)anthracene	21.621	228	4365233	52.675	ng	100
82) 3,3'-Dichlorobenzidine	21.545	252	1067282	38.426	ng	99
83) Chrysene	21.692	228	4032865	50.622	ng	99
84) Bis(2-ethylhexyl)phtha...	21.557	149	2814005	54.573	ng	99
85) Di-n-octyl phthalate	22.845	149	4816817	58.304	ng	100
87) Indeno(1,2,3-cd)pyrene	28.856	276	5522835	52.938	ng	94
88) Benzo(b)fluoranthene	23.939	252	4588615	50.912	ng	98
89) Benzo(k)fluoranthene	24.015	252	4470670	50.709	ng	99
90) Benzo(a)pyrene	24.857	252	4367049	55.721	ng	99
91) Dibenzo(a,h)anthracene	28.939	278	4544623	52.360	ng	99
92) Benzo(g,h,i)perylene	30.027	276	4376784	49.606	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024261.D
Acq On : 11 Apr 2025 11:04
Operator : RC/JU
Sample : PB167537BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BS

Quant Time: Apr 11 11:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



Sample Results: **BP024265.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024265.D
Acq On : 11 Apr 2025 14:19
Operator : RC/JU
Sample : Q1748-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:59:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.740	152	198893	20.000	ng		0.00
21) Naphthalene-d8	10.510	136	835760	20.000	ng		-0.02
39) Acenaphthene-d10	14.386	164	566625	20.000	ng		0.00
64) Phenanthrene-d10	17.186	188	1260548	20.000	ng		0.00
76) Chrysene-d12	21.645	240	1426665	20.000	ng		0.00
86) Perylene-d12	25.004	264	871094	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.352	112	1988756	159.614	ng		0.00
7) Phenol-d6	6.922	99	2499529	150.014	ng		0.00
23) Nitrobenzene-d5	8.887	82	1605956	108.416	ng		0.00
42) 2,4,6-Tribromophenol	15.904	330	1423364	199.424	ng		0.00
45) 2-Fluorobiphenyl	12.992	172	3666524	95.414	ng		0.00
79) Terphenyl-d14	19.916	244	7270183	105.191	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.305	88	197424	39.973	ng	#	78
3) Pyridine	3.699	79	726093	53.777	ng		97
4) n-Nitrosodimethylamine	3.599	42	207047	45.906	ng		99
6) Aniline	7.075	93	278787	18.365	ng		98
8) 2-Chlorophenol	7.310	128	678421	50.409	ng		99
9) Benzaldehyde	6.887	77	155372	19.323	ng		97
10) Phenol	6.946	94	813258	48.350	ng		99
11) bis(2-Chloroethyl)ether	7.163	93	614434	46.322	ng		96
12) 1,3-Dichlorobenzene	7.628	146	618603	42.623	ng		99
13) 1,4-Dichlorobenzene	7.775	146	634304	42.805	ng		99
14) 1,2-Dichlorobenzene	8.087	146	623687	43.859	ng		99
15) Benzyl Alcohol	7.975	79	420731	39.885	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.257	45	665859	49.184	ng		97
17) 2-Methylphenol	8.181	107	585018	55.464	ng		99
18) Hexachloroethane	8.804	117	222640	42.349	ng		98
19) n-Nitroso-di-n-propyla...	8.534	70	488650	50.552	ng		99
20) 3+4-Methylphenols	8.504	107	814153	56.184	ng		99
22) Acetophenone	8.552	105	988977	46.805	ng	#	99
24) Nitrobenzene	8.928	77	717881	49.127	ng		99
25) Isophorone	9.446	82	1421417	55.979	ng		99
26) 2-Nitrophenol	9.634	139	360276	51.615	ng		99
27) 2,4-Dimethylphenol	9.698	122	680718	75.842	ng		98
28) bis(2-Chloroethoxy)met...	9.928	93	797057	44.620	ng		99
29) 2,4-Dichlorophenol	10.169	162	663319	54.631	ng		100
30) 1,2,4-Trichlorobenzene	10.381	180	596034	44.431	ng		99
31) Naphthalene	10.563	128	2020428	45.605	ng		100
32) Benzoic acid	9.834	122	518295m	59.210	ng		
33) 4-Chloroaniline	10.681	127	137875	8.696	ng		99
34) Hexachlorobutadiene	10.851	225	329257	42.648	ng		99
35) Caprolactam	11.463	113	254562	63.971	ng		97
36) 4-Chloro-3-methylphenol	11.810	107	812838	62.057	ng		99
37) 2-Methylnaphthalene	12.175	142	1336378	44.651	ng		99
38) 1-Methylnaphthalene	12.404	142	1421267	48.823	ng		99
40) 1,2,4,5-Tetrachloroben...	12.551	216	701326	42.817	ng		99
41) Hexachlorocyclopentadiene	12.528	237	910279	154.174	ng		98
43) 2,4,6-Trichlorophenol	12.798	196	547883	52.633	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024265.D
Acq On : 11 Apr 2025 14:19
Operator : RC/JU
Sample : Q1748-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:59:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.875	196	649678	56.911	ng	99
46) 1,1'-Biphenyl	13.198	154	1965684	46.165	ng	99
47) 2-Chloronaphthalene	13.239	162	1517908	47.395	ng	99
48) 2-Nitroaniline	13.451	65	482628	58.918	ng	96
49) Acenaphthylene	14.098	152	2623879	54.145	ng	100
50) Dimethylphthalate	13.834	163	2173322	54.816	ng	100
51) 2,6-Dinitrotoluene	13.963	165	486052	58.265	ng	98
52) Acenaphthene	14.451	154	1539419	49.719	ng	99
53) 3-Nitroaniline	14.298	138	153208	17.004	ng	99
54) 2,4-Dinitrophenol	14.498	184	656992	148.841	ng	94
55) Dibenzofuran	14.786	168	2463534	49.120	ng	98
56) 4-Nitrophenol	14.622	139	1037606	137.823	ng	96
57) 2,4-Dinitrotoluene	14.751	165	723204	65.632	ng	97
58) Fluorene	15.445	166	2083618	53.321	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.028	232	584528	57.955	ng	98
60) Diethylphthalate	15.222	149	2253741	57.082	ng	99
61) 4-Chlorophenyl-phenyle...	15.457	204	979569	51.110	ng	97
62) 4-Nitroaniline	15.475	138	396219	41.929	ng	99
63) Azobenzene	15.751	77	1987173	53.399	ng	98
65) 4,6-Dinitro-2-methylph...	15.528	198	418302	55.897	ng	95
66) n-Nitrosodiphenylamine	15.669	169	943117	24.638	ng	100
67) 4-Bromophenyl-phenylether	16.363	248	659062	47.621	ng	98
68) Hexachlorobenzene	16.480	284	807518	49.297	ng	99
69) Atrazine	16.645	200	215386	23.312	ng	99
70) Pentachlorophenol	16.833	266	1215004	114.697	ng	99
71) Phenanthrene	17.239	178	3497744	50.793	ng	99
72) Anthracene	17.333	178	3514990	52.408	ng	100
73) Carbazole	17.610	167	1426762	22.059	ng	100
74) Di-n-butylphthalate	18.210	149	4206804	54.788	ng	100
75) Fluoranthene	19.327	202	4297131	53.879	ng	99
77) Benzidine	19.539	184	9013m	0.578	ng	
78) Pyrene	19.704	202	4378542	49.366	ng	99
80) Butylbenzylphthalate	20.645	149	2050522	56.062	ng	98
81) Benzo(a)anthracene	21.621	228	4632255	52.224	ng	100
82) 3,3'-Dichlorobenzidine	21.539	252	53712	1.807	ng	98
83) Chrysene	21.692	228	4265411	50.023	ng	99
84) Bis(2-ethylhexyl)phtha...	21.557	149	2941938	53.306	ng	100
85) Di-n-octyl phthalate	22.833	149	4973283	56.242	ng	100
87) Indeno(1,2,3-cd)pyrene	28.815	276	5522504	90.837	ng	99
88) Benzo(b)fluoranthene	23.927	252	4834705	92.052	ng	98
89) Benzo(k)fluoranthene	24.015	252	4709378	91.665	ng	100
90) Benzo(a)pyrene	24.851	252	4188367	91.707	ng	99
91) Dibenzo(a,h)anthracene	28.909	278	4800304	94.907	ng	99
92) Benzo(g,h,i)perylene	30.009	276	4314856	83.921	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

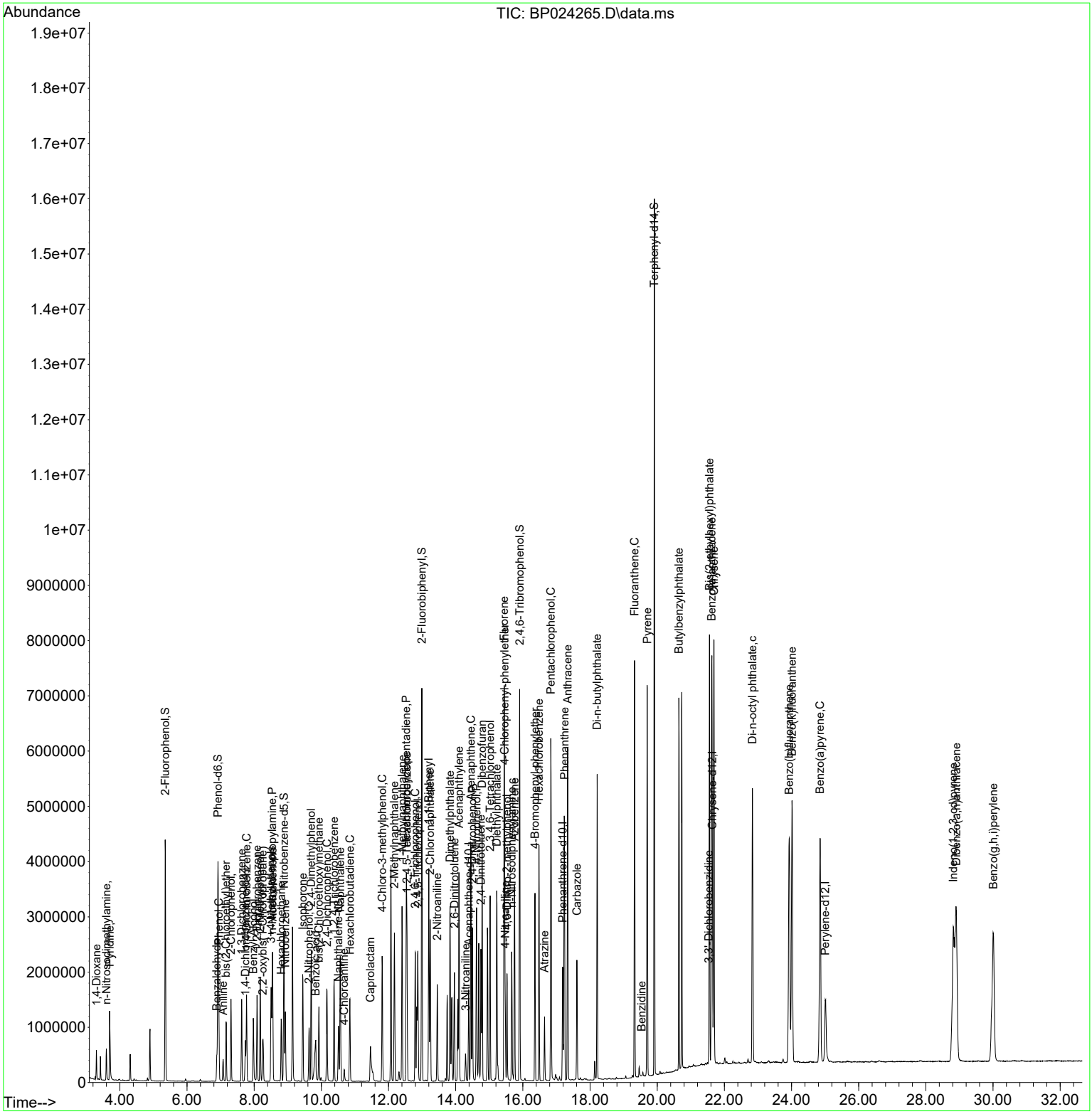
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024265.D
Acq On : 11 Apr 2025 14:19
Operator : RC/JU
Sample : Q1748-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:59:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024266.D
Acq On : 11 Apr 2025 15:00
Operator : RC/JU
Sample : Q1748-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	263233	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	1024669	20.000	ng	-0.01
39) Acenaphthene-d10	14.375	164	625891	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1269585	20.000	ng	-0.02
76) Chrysene-d12	21.622	240	1347511	20.000	ng	-0.02
86) Perylene-d12	24.980	264	604991	20.000	ng	#-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	2378846	144.257	ng	0.00
7) Phenol-d6	6.928	99	2868568	130.082	ng	0.00
23) Nitrobenzene-d5	8.887	82	1876741	103.338	ng	0.00
42) 2,4,6-Tribromophenol	15.887	330	1412322	179.140	ng	-0.01
45) 2-Fluorobiphenyl	12.987	172	3987446	93.940	ng	-0.01
79) Terphenyl-d14	19.898	244	6970849	106.785	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.311	88	250645	38.345	ng	# 76
3) Pyridine	3.705	79	766858	42.914	ng	97
4) n-Nitrosodimethylamine	3.605	42	251770	42.178	ng	100
6) Aniline	7.081	93	237669	11.829	ng	98
8) 2-Chlorophenol	7.316	128	815068	45.759	ng	99
9) Benzaldehyde	6.893	77	215811	20.279	ng	98
10) Phenol	6.952	94	939518	42.204	ng	99
11) bis(2-Chloroethyl)ether	7.169	93	747961	42.606	ng	99
12) 1,3-Dichlorobenzene	7.628	146	776529	40.427	ng	100
13) 1,4-Dichlorobenzene	7.775	146	791991	40.383	ng	99
14) 1,2-Dichlorobenzene	8.087	146	774610	41.158	ng	99
15) Benzyl Alcohol	7.981	79	451523	32.342	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.263	45	816372	45.563	ng	97
17) 2-Methylphenol	8.181	107	677807	48.555	ng	99
18) Hexachloroethane	8.810	117	283685	40.771	ng	98
19) n-Nitroso-di-n-propyla...	8.540	70	563783	44.069	ng	99
20) 3+4-Methylphenols	8.505	107	925546	48.259	ng	98
22) Acetophenone	8.552	105	1159395	44.754	ng	99
24) Nitrobenzene	8.928	77	832032	46.441	ng	99
25) Isophorone	9.452	82	1593180	51.176	ng	99
26) 2-Nitrophenol	9.634	139	421515	49.255	ng	99
27) 2,4-Dimethylphenol	9.699	122	774521	70.384	ng	98
28) bis(2-Chloroethoxy)met...	9.928	93	923700	42.176	ng	100
29) 2,4-Dichlorophenol	10.169	162	741080	49.783	ng	98
30) 1,2,4-Trichlorobenzene	10.375	180	719976	43.776	ng	99
31) Naphthalene	10.563	128	2358188	43.416	ng	100
32) Benzoic acid	9.840	122	540827	50.394	ng	97
33) 4-Chloroaniline	10.681	127	107792	5.545	ng	97
34) Hexachlorobutadiene	10.851	225	411310	43.454	ng	98
35) Caprolactam	11.469	113	251034	51.454	ng	99
36) 4-Chloro-3-methylphenol	11.810	107	858833	53.480	ng	99
37) 2-Methylnaphthalene	12.181	142	1509811	41.145	ng	100
38) 1-Methylnaphthalene	12.398	142	1590749	44.570	ng	99
40) 1,2,4,5-Tetrachloroben...	12.546	216	801448	44.297	ng	98
41) Hexachlorocyclopentadiene	12.528	237	1101971	168.968	ng	98
43) 2,4,6-Trichlorophenol	12.793	196	590161	51.326	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024266.D
Acq On : 11 Apr 2025 15:00
Operator : RC/JU
Sample : Q1748-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.869	196	671811	53.277	ng	98
46) 1,1'-Biphenyl	13.198	154	2147562	45.661	ng	100
47) 2-Chloronaphthalene	13.240	162	1635181	46.222	ng	99
48) 2-Nitroaniline	13.445	65	476163	52.624	ng	98
49) Acenaphthylene	14.092	152	2754375	51.456	ng	100
50) Dimethylphthalate	13.834	163	2208995	50.440	ng	99
51) 2,6-Dinitrotoluene	13.945	165	492069	53.401	ng	99
52) Acenaphthene	14.440	154	1612157	47.138	ng	99
53) 3-Nitroaniline	14.281	138	141326	14.200	ng	95
54) 2,4-Dinitrophenol	14.492	184	664698	136.328	ng	96
55) Dibenzofuran	14.781	168	2534651	45.752	ng	97
56) 4-Nitrophenol	14.610	139	993078	119.418	ng	98
57) 2,4-Dinitrotoluene	14.751	165	715143	58.755	ng	98
58) Fluorene	15.439	166	2100315	48.659	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.016	232	588377	52.813	ng	98
60) Diethylphthalate	15.216	149	2190498	50.227	ng	100
61) 4-Chlorophenyl-phenyle...	15.434	204	1013792	47.887	ng	97
62) 4-Nitroaniline	15.463	138	363825	34.855	ng	100
63) Azobenzene	15.734	77	1979228	48.150	ng	99
65) 4,6-Dinitro-2-methylph...	15.528	198	416210	55.222	ng	95
66) n-Nitrosodiphenylamine	15.651	169	945302	24.520	ng	99
67) 4-Bromophenyl-phenylether	16.345	248	663399	47.593	ng	99
68) Hexachlorobenzene	16.469	284	787040	47.705	ng	99
69) Atrazine	16.628	200	114541	12.309	ng	99
70) Pentachlorophenol	16.816	266	1182455	110.830	ng	99
71) Phenanthrene	17.216	178	3402535	49.058	ng	99
72) Anthracene	17.310	178	3403799	50.389	ng	99
73) Carbazole	17.592	167	1148669	17.633	ng	100
74) Di-n-butylphthalate	18.180	149	3940573	50.956	ng	100
75) Fluoranthene	19.298	202	4021865	50.069	ng	99
77) Benzidine	19.510	184	31788m	2.158	ng	
78) Pyrene	19.680	202	4077965	48.678	ng	100
80) Butylbenzylphthalate	20.633	149	1859078	53.813	ng	98
81) Benzo(a)anthracene	21.604	228	4178675	49.878	ng	100
82) 3,3'-Dichlorobenzidine	21.527	252	93478	3.329	ng	97
83) Chrysene	21.674	228	3955205	49.110	ng	99
84) Bis(2-ethylhexyl)phtha...	21.539	149	2655288	50.938	ng	100
85) Di-n-octyl phthalate	22.827	149	4511896	54.022	ng	100
87) Indeno(1,2,3-cd)pyrene	28.792	276	4539854m	107.519	ng	
88) Benzo(b)fluoranthene	23.915	252	4459795	122.262	ng	99
89) Benzo(k)fluoranthene	23.992	252	4191765	117.477	ng	99
90) Benzo(a)pyrene	24.833	252	3444003	108.577	ng	99
91) Dibenzo(a,h)anthracene	28.892	278	4286090	122.013	ng	99
92) Benzo(g,h,i)perylene	29.986	276	3479023	97.427	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

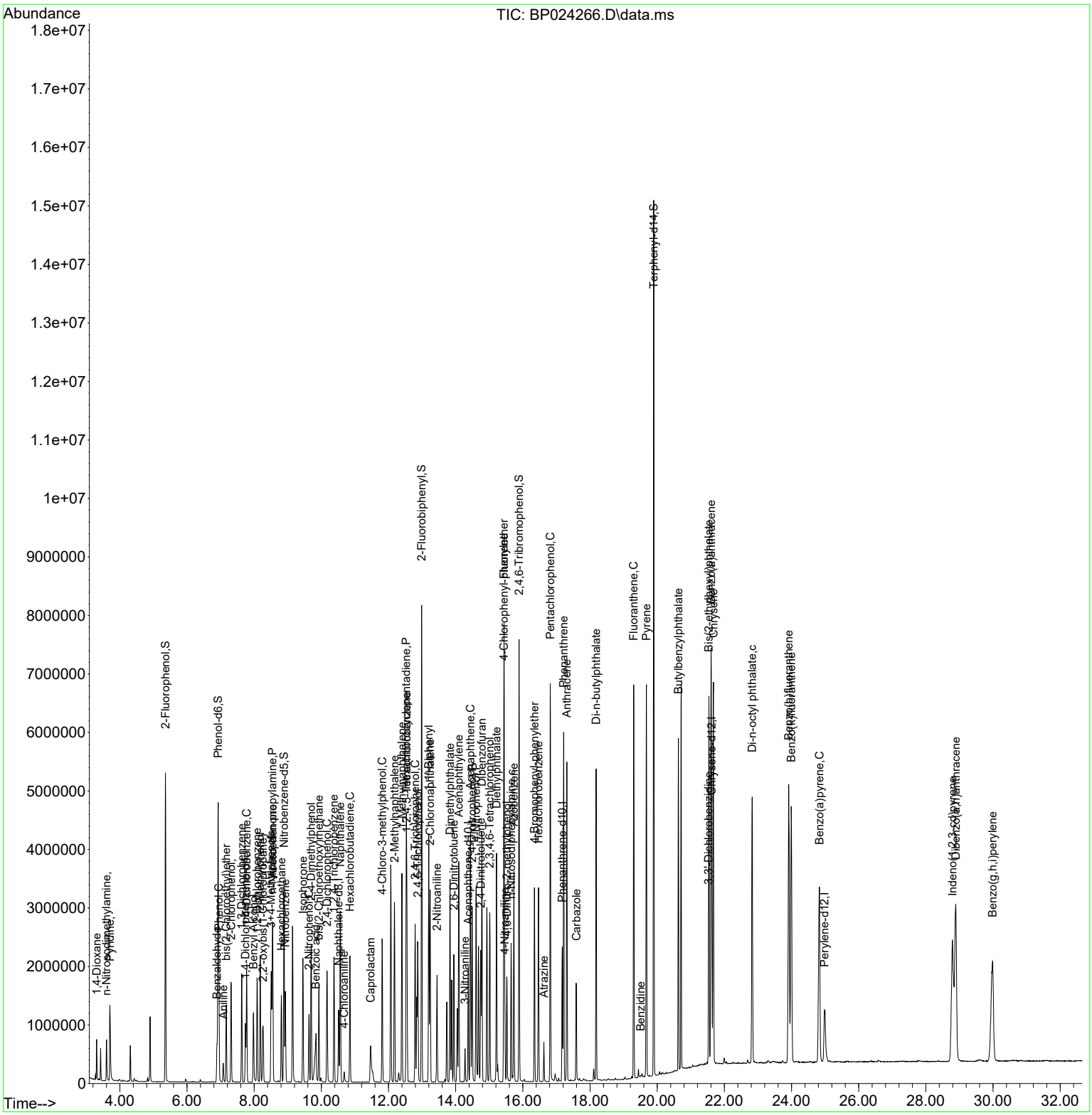
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024266.D
Acq On : 11 Apr 2025 15:00
Operator : RC/JU
Sample : Q1748-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BP031225	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024161.D	Benzaldehyde	anahy	3/13/2025 11:10:33 AM	Jagrut	3/13/2025 11:45:04 AM	Peak Integrated by Software
SSTDICC050	BP024165.D	Pyridine	anahy	3/13/2025 11:11:20 AM	Jagrut	3/13/2025 11:45:07 AM	Peak Integrated by Software
SSTDICC060	BP024166.D	Indeno(1,2,3-cd)pyrene	anahy	3/13/2025 11:38:58 AM	Jagrut	3/13/2025 11:45:09 AM	Peak Integrated by Software
SSTDICC060	BP024166.D	Pyridine	anahy	3/13/2025 11:38:58 AM	Jagrut	3/13/2025 11:45:09 AM	Peak Integrated by Software
SSTDICC080	BP024167.D	Pyridine	anahy	3/13/2025 11:39:57 AM	Jagrut	3/13/2025 11:45:11 AM	Peak Integrated by Software
SSTDICV040	BP024168.D	Benzo(g,h,i)perylene	anahy	3/13/2025 11:40:49 AM	Jagrut	3/13/2025 11:45:14 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	bp041125	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP024259.D	Benzoic acid	Rahul	4/14/2025 11:09:26 AM	Jagrut	4/14/2025 3:52:48 PM	Peak Integrated by Software
Q1748-04MS	BP024265.D	Benzidine	Rahul	4/14/2025 11:09:30 AM	Jagrut	4/14/2025 3:52:50 PM	Peak Integrated by Software
Q1748-04MS	BP024265.D	Benzoic acid	Rahul	4/14/2025 11:09:30 AM	Jagrut	4/14/2025 3:52:50 PM	Peak Integrated by Software
Q1748-04MSD	BP024266.D	Benzidine	Rahul	4/14/2025 11:09:34 AM	Jagrut	4/14/2025 3:52:53 PM	Peak Integrated by Software
Q1748-04MSD	BP024266.D	Indeno(1,2,3-cd)pyrene	Rahul	4/14/2025 11:09:34 AM	Jagrut	4/14/2025 3:52:53 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP031225

Review By	anahy	Review On	3/13/2025 11:41:15 AM		
Supervise By	Jagrut	Supervise On	3/17/2025 4:44:19 PM		
SubDirectory	BP031225	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024159.D	12 Mar 2025 15:36	RC/JU	Ok
2	SSTDICC2.5	BP024160.D	12 Mar 2025 16:17	RC/JU	Ok
3	SSTDICC005	BP024161.D	12 Mar 2025 16:57	RC/JU	Ok,M
4	SSTDICC010	BP024162.D	12 Mar 2025 17:38	RC/JU	Ok
5	SSTDICC020	BP024163.D	12 Mar 2025 18:19	RC/JU	Ok
6	SSTDICCC040	BP024164.D	12 Mar 2025 19:00	RC/JU	Ok
7	SSTDICC050	BP024165.D	12 Mar 2025 19:41	RC/JU	Ok,M
8	SSTDICC060	BP024166.D	12 Mar 2025 20:21	RC/JU	Ok,M
9	SSTDICC080	BP024167.D	12 Mar 2025 21:02	RC/JU	Ok,M
10	SSTDICV040	BP024168.D	12 Mar 2025 21:43	RC/JU	Ok,M
11	PB167078BL	BP024169.D	12 Mar 2025 22:24	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041125

Review By	Rahul	Review On	4/14/2025 11:10:32 AM		
Supervise By	Jagrut	Supervise On	4/14/2025 3:53:13 PM		
SubDirectory	BP041125	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024258.D	11 Apr 2025 09:02	RC/JU	Ok
2	SSTDCCC040	BP024259.D	11 Apr 2025 09:43	RC/JU	Ok,M
3	PB167537BL	BP024260.D	11 Apr 2025 10:23	RC/JU	Ok
4	PB167537BS	BP024261.D	11 Apr 2025 11:04	RC/JU	Ok
5	PB167517TB	BP024262.D	11 Apr 2025 11:45	RC/JU	Ok
6	PB167518BS	BP024263.D	11 Apr 2025 12:25	RC/JU	Ok
7	Q1749-04	BP024264.D	11 Apr 2025 13:38	RC/JU	Ok
8	Q1748-04MS	BP024265.D	11 Apr 2025 14:19	RC/JU	Ok,M
9	Q1748-04MSD	BP024266.D	11 Apr 2025 15:00	RC/JU	Ok,M
10	Q1746-02	BP024267.D	11 Apr 2025 15:40	RC/JU	Ok
11	Q1746-04	BP024268.D	11 Apr 2025 16:21	RC/JU	Ok
12	Q1744-02	BP024269.D	11 Apr 2025 17:02	RC/JU	Ok
13	Q1744-04	BP024270.D	11 Apr 2025 17:42	RC/JU	Ok
14	Q1752-02	BP024271.D	11 Apr 2025 18:23	RC/JU	Ok
15	Q1752-04	BP024272.D	11 Apr 2025 19:04	RC/JU	Ok
16	Q1752-06	BP024273.D	11 Apr 2025 19:45	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP031225

Review By	anahy	Review On	3/13/2025 11:41:15 AM		
Supervise By	Jagrut	Supervise On	3/17/2025 4:44:19 PM		
SubDirectory	BP031225	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024159.D	12 Mar 2025 15:36		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024160.D	12 Mar 2025 16:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024161.D	12 Mar 2025 16:57	Compound #32,54,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024162.D	12 Mar 2025 17:38		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BP024163.D	12 Mar 2025 18:19		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BP024164.D	12 Mar 2025 19:00	This calibration is good for 8270E and 8270E DOD methods	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BP024165.D	12 Mar 2025 19:41		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BP024166.D	12 Mar 2025 20:21	Compound #69 Removed from 60PPM	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP024167.D	12 Mar 2025 21:02	Compound #32,54,69 Removed from 80PPM	RC/JU	Ok,M
10	SSTDICV040	ICVBP031225	BP024168.D	12 Mar 2025 21:43		RC/JU	Ok,M
11	PB167078BL	PB167078BL	BP024169.D	12 Mar 2025 22:24		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041125

Review By	Rahul	Review On	4/14/2025 11:10:32 AM		
Supervise By	Jagrut	Supervise On	4/14/2025 3:53:13 PM		
SubDirectory	BP041125	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024258.D	11 Apr 2025 09:02		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024259.D	11 Apr 2025 09:43	CCC fail high side for com. #32 and #77	RC/JU	Ok,M
3	PB167537BL	PB167537BL	BP024260.D	11 Apr 2025 10:23		RC/JU	Ok
4	PB167537BS	PB167537BS	BP024261.D	11 Apr 2025 11:04		RC/JU	Ok
5	PB167517TB	PB167517TB	BP024262.D	11 Apr 2025 11:45		RC/JU	Ok
6	PB167518BS	PB167518BS	BP024263.D	11 Apr 2025 12:25		RC/JU	Ok
7	Q1749-04	TP-14	BP024264.D	11 Apr 2025 13:38		RC/JU	Ok
8	Q1748-04MS	IB-1.5-WCMS	BP024265.D	11 Apr 2025 14:19		RC/JU	Ok,M
9	Q1748-04MSD	IB-1.5-WCMSD	BP024266.D	11 Apr 2025 15:00		RC/JU	Ok,M
10	Q1746-02	B-149-SB01	BP024267.D	11 Apr 2025 15:40		RC/JU	Ok
11	Q1746-04	B-149-SB02	BP024268.D	11 Apr 2025 16:21		RC/JU	Ok
12	Q1744-02	B-158-SB01	BP024269.D	11 Apr 2025 17:02		RC/JU	Ok
13	Q1744-04	B-158-SB02	BP024270.D	11 Apr 2025 17:42		RC/JU	Ok
14	Q1752-02	TP-1	BP024271.D	11 Apr 2025 18:23		RC/JU	Ok
15	Q1752-04	TP-2	BP024272.D	11 Apr 2025 19:04		RC/JU	Ok
16	Q1752-06	TP-4	BP024273.D	11 Apr 2025 19:45		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JB

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JB

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JB

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JB 104 Room	9129. 154
	Preparation Group	Analysis Group

04/09/25

DRY DJ

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167517

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1748 **WorkList ID :** 188805 **Department :** TCLP Extraction **Date :** 04-08-2025 12:17:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1743-04	TP-16	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311
Q1744-02	B-158-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1744-04	B-158-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1745-04	IB-6A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1745-12	IB-6.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1746-02	B-149-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1746-04	B-149-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311
Q1748-04	IB-1.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1748-08	IB-2A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1749-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/07/2025	1311
Q1752-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-04	TP-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-06	TP-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-08	TP-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-04	TP-1-CONCRETE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311

Date/Time 04/08/25 16:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/08/25 18:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167537

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: EH

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 04/09/2025

Extraction Start Time : 13:25

Extraction End Date : 04/09/2025

Extraction End Time : 18:25

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2599
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.p H Adjusted <2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25	RP (Ext 1 cab)	JG / SVOC
18:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167537

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/09/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167517TB	PB167517TB	TCLP BNA	100	6	ritesh	rajesh	1			SEP-01
PB167537BL	PB167537BL	TCLP BNA	1000	6	ritesh	rajesh	1			2
PB167537BS	PB167537BS	TCLP BNA	1000	6	ritesh	rajesh	1			3
PB167537TB	PB167537TB	TCLP BNA	100	6	ritesh	rajesh	1			4
Q1740-04	TP-20	TCLP BNA	100	6	ritesh	rajesh	1	A		5
Q1743-04	TP-16	TCLP BNA	100	6	ritesh	rajesh	1	A		6
Q1744-02	B-158-SB01	TCLP BNA	100	6	ritesh	rajesh	1	A		7
Q1744-04	B-158-SB02	TCLP BNA	100	6	ritesh	rajesh	1	A		8
Q1745-04	IB-6A-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		9
Q1745-12	IB-6.5-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		10
Q1746-02	B-149-SB01	TCLP BNA	100	6	ritesh	rajesh	1	A		11
Q1746-04	B-149-SB02	TCLP BNA	100	6	ritesh	rajesh	1	A		12
Q1748-04	IB-1.5-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		13
Q1748-04MS	IB-1.5-WCMS	TCLP BNA	100	6	ritesh	rajesh	1	A		14
Q1748-04MSD	IB-1.5-WCMSD	TCLP BNA	100	6	ritesh	rajesh	1	A		15
Q1748-08	IB-2A-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		16
Q1749-04	TP-14	TCLP BNA	100	6	ritesh	rajesh	1	A		SEP-01
Q1752-02	TP-1	TCLP BNA	100	6	ritesh	rajesh	1	A		2
Q1752-04	TP-2	TCLP BNA	100	6	ritesh	rajesh	1	A		3
Q1752-06	TP-3	TCLP BNA	100	6	ritesh	rajesh	1	A		4
Q1752-08	TP-4	TCLP BNA	100	6	ritesh	rajesh	1	A		5
Q1753-04	WC-1	TCLP BNA	100	6	ritesh	rajesh	1	A		6
Q1753-08	WC-2	TCLP BNA	100	6	ritesh	rajesh	1	A		7
Q1754-02	TP-1	TCLP BNA	100	6	ritesh	rajesh	1	A		8
Q1754-04	TP-1-CONCRETE	TCLP BNA	100	6	ritesh	rajesh	1	A		9

* **Extracts relinquished on the same date as received.**

4/9/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167467

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167467TB	LEB467	18	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q1712-04	Z-05A	01	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1712-08	TT-7	02	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1719-01	TP-3-1	03	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1719-02	TP-3-2	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1719-03	TP-3-3	05	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-04	TP-3-4	06	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1719-05	TP-3-5	07	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-06	TP-3-6	08	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1719-07	TP-3-7	09	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-08	TP-3-8	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-09	TP-3-9	11	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-2
Q1719-10	TP-3-10	12	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1719-11	TP-3-11	13	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1719-12	TP-3-12	14	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1732-04	TT-8	15	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q1737-02	RT3069	16	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1740-04	TP-20	17	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2

04/07/25
11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167488

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167488TB	LEB488	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.5	N/A

04/07/25
12:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

04/09/25

12:40

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1746 **Order ID:** Q1746

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

Alliance
TECHNICAL GROUP

A
B
C
D
E
F
G
H
I
J
K
L

SAMPLE DATA

Raw Data: **PL095157.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1746
Lab Sample ID:	PB167517TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095157.D	1	04/09/25 12:50	04/09/25 22:10	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.4		30 (77) - 150 (126)	97%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095160.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-02	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095160.D	1	04/09/25 12:50	04/09/25 22:51	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.5		30 (43) - 150 (140)	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.4		30 (77) - 150 (126)	97%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095161.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-04	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095161.D	1	04/09/25 12:50	04/09/25 23:05	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.3		30 (43) - 150 (140)	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.5		30 (77) - 150 (126)	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL094566.D	PIBLK-PL094566.D	Decachlorobiphenyl	1	20	22.7	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.0	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (77)	150 (126)
I.BLK-PL095137.D	PIBLK-PL095137.D	Decachlorobiphenyl	1	20	20.9	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.1	96		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.8	84		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
Q1739-02MS	WC-LIQUID-20250404MS	Decachlorobiphenyl	1	20	17.4	87		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	12.5	62		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	12.8	64		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	14.0	70		30 (77)	150 (126)
Q1739-02MSD	WC-LIQUID-20250404MSD	Decachlorobiphenyl	1	20	16.4	82		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	12.3	61		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	12.9	64		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	13.7	69		30 (77)	150 (126)
I.BLK-PL095147.D	PIBLK-PL095147.D	Decachlorobiphenyl	1	20	18.8	94		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.1	90		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.8	79		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.1	95		30 (77)	150 (126)
PB167535BL	PB167535BL	Decachlorobiphenyl	1	20	20.9	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.3	97		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.5	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (77)	150 (126)
PB167517TB	PB167517TB	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.7	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.4	97		30 (77)	150 (126)
Q1746-02	B-149-SB01	Decachlorobiphenyl	1	20	23.5	117		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	17.5	88		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.8	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.4	97		30 (77)	150 (126)
Q1746-04	B-149-SB02	Decachlorobiphenyl	1	20	23.3	117		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	17.4	87		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.4	112		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.5	98		30 (77)	150 (126)
I.BLK-PL095162.D	PIBLK-PL095162.D	Decachlorobiphenyl	1	20	22.4	112		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.1	96		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.0	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (77)	150 (126)
I.BLK-PL095202.D	PIBLK-PL095202.D	Decachlorobiphenyl	1	20	22.6	113		30 (43)	150 (140)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL095202.D	PIBLK-PL095202.D	Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (77)	150 (126)
I.BLK-PL095224.D	PIBLK-PL095224.D	Decachlorobiphenyl	1	20	23.9	120		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.7	114		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.3	111		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (77)	150 (126)
PB167535BS	PB167535BS	Decachlorobiphenyl	1	20	19.0	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	16.6	83		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.4	77		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	15.3	77		30 (77)	150 (126)
I.BLK-PL095235.D	PIBLK-PL095235.D	Decachlorobiphenyl	1	20	20.9	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	23.8	119		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.2	76		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.7	103		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL095145.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-LIQUID-20250404MS**											
Q1739-02MS	gamma-BHC (Lindane)	5	0	3.10	ug/L	62				30 (60)	150 (152)	
	Heptachlor	5	0	2.90	ug/L	58				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	3.00	ug/L	60				30 (77)	150 (143)	
	Endrin	5	0	3.40	ug/L	68				30 (76)	150 (144)	
	Methoxychlor	5	0	3.40	ug/L	68				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL095146.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-LIQUID-20250404MSD**											
Q1739-02MSD	gamma-BHC (Lindane)	5	0	3.10	ug/L	62		0		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	2.80	ug/L	56		4		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	2.90	ug/L	58		3		30 (77)	150 (143)	20 (20)
	Endrin	5	0	3.30	ug/L	66		3		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	3.40	ug/L	68		0		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PL095232.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167535BS	gamma-BHC (Lindane)	0.5	0.46	ug/L	92				40 (82)	140 (129)	
	Heptachlor	0.5	0.50	ug/L	100				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.49	ug/L	98				40 (81)	140 (124)	
	Endrin	0.5	0.52	ug/L	105				40 (81)	140 (128)	
	Methoxychlor	0.5	0.52	ug/L	104				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167535BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: PB167535BL Lab File ID: PL095154.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 04/09/2025

Date Analyzed (1): 04/09/2025 Date Analyzed (2): 04/09/2025

Time Analyzed (1): 21:29 Time Analyzed (2): 21:29

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
WC-LIQUID-20250404MS	Q1739-02MS	PL095145.D	04/09/2025	04/09/2025
WC-LIQUID-20250404MSD	Q1739-02MSD	PL095146.D	04/09/2025	04/09/2025
PB167517TB	PB167517TB	PL095157.D	04/09/2025	04/09/2025
B-149-SB01	Q1746-02	PL095160.D	04/09/2025	04/09/2025
B-149-SB02	Q1746-04	PL095161.D	04/09/2025	04/09/2025
PB167535BS	PB167535BS	PL095232.D	04/15/2025	04/15/2025

COMMENTS:

QC SAMPLE DATA

Raw Data: **PL095154.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167535BL	SDG No.:	Q1746
Lab Sample ID:	PB167535BL	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095154.D	1	04/09/25 12:50	04/09/25 21:29	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.2		30 (77) - 150 (126)	101%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/11/25
Client Sample ID:	PIBLK-PL094566.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PL094566.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094566.D	1		03/11/25	PL031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PL095137.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PL095137.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095137.D	1		04/09/25	pl040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (126)	102%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PL095147.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PL095147.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095147.D	1		04/09/25	pl040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.8		30 (43) - 150 (140)	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		30 (77) - 150 (126)	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PL095162.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PL095162.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095162.D	1		04/09/25	pl040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.4		30 (43) - 150 (140)	112%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.1		30 (77) - 150 (126)	100%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/14/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/14/25
Client Sample ID:	PIBLK-PL095202.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PL095202.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095202.D	1		04/14/25	PL041425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.6		30 (43) - 150 (140)	113%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/15/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/15/25
Client Sample ID:	PIBLK-PL095224.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PL095224.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095224.D	1		04/15/25	Pl041525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.9		30 (43) - 150 (140)	120%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		30 (77) - 150 (126)	114%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/15/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/15/25
Client Sample ID:	PIBLK-PL095235.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PL095235.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095235.D	1		04/15/25	pl041525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.8		30 (77) - 150 (126)	119%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095232.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167535BS	SDG No.:	Q1746
Lab Sample ID:	PB167535BS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095232.D	1	04/09/25 12:50	04/15/25 13:05	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.46		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.50		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.49		0.0096	0.050	ug/L
72-20-8	Endrin	0.52		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.52		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.0		30 (43) - 150 (140)	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.6		30 (77) - 150 (126)	83%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095145.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MS	SDG No.:	Q1746
Lab Sample ID:	Q1739-02MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095145.D	1	04/09/25 12:50	04/09/25 18:58	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	3.10		0.037	0.50	ug/L
76-44-8	Heptachlor	2.90		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	3.00		0.096	0.50	ug/L
72-20-8	Endrin	3.40		0.032	0.50	ug/L
72-43-5	Methoxychlor	3.40		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.4		30 (43) - 150 (140)	87%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.0		30 (77) - 150 (126)	70%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL095146.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MSD	SDG No.:	Q1746
Lab Sample ID:	Q1739-02MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL095146.D	1	04/09/25 12:50	04/09/25 19:12	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	3.10		0.037	0.50	ug/L
76-44-8	Heptachlor	2.80		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	2.90		0.096	0.50	ug/L
72-20-8	Endrin	3.30		0.032	0.50	ug/L
72-43-5	Methoxychlor	3.40		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.4		30 (43) - 150 (140)	82%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.7		30 (77) - 150 (126)	69%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL094569.D RT 075 = PL094570.D

RT 050 = PL094571.D RT 025 = PL094572.D RT 005 = PL094573.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.05	9.06	9.06	9.06	9.05	9.05	8.95	9.15
Endrin	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.91	4.92	4.92	4.91	4.92	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL094569.D RT 075 = PL094570.D

RT 050 = PL094571.D RT 025 = PL094572.D RT 005 = PL094573.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
Endrin	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
gamma-BHC (Lindane)	3.60	3.60	3.60	3.60	3.60	3.60	3.50	3.70
Heptachlor	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.72	4.72	4.73	4.72	4.72	4.72	4.62	4.82
Methoxychlor	6.61	6.61	6.61	6.61	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL094569.D **CF 075 =** PL094570.D

CF 050 = PL094571.D **CF 025 =** PL094572.D **CF 005 =** PL094573.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	1938960000	1961100000	2020410000	2196220000	2420590000	2107460000	10
Endrin	2585940000	2584670000	2628790000	2810860000	3250100000	2772070000	10
gamma-BHC (Lindane)	3886090000	3824550000	3841420000	4060770000	4338530000	3990270000	5
Heptachlor	3645730000	3661000000	3717820000	3965990000	4417600000	3881630000	8
Heptachlor epoxide	3127680000	3124100000	3197280000	3386170000	3890740000	3345200000	10
Methoxychlor	1109170000	1148450000	1148150000	1275940000	1303650000	1197070000	7
Tetrachloro-m-xylene	2677630000	2681900000	2722740000	2922670000	3148400000	2830670000	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL094569.D **CF 075 =** PL094570.D

CF 050 = PL094571.D **CF 025 =** PL094572.D **CF 005 =** PL094573.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	3950320000	3868520000	3903950000	4095240000	4378770000	4039360000	5
Endrin	4434550000	4325290000	4326060000	4330520000	4401830000	4363650000	1
gamma-BHC (Lindane)	5372230000	5230100000	5132530000	5070750000	4891640000	5139450000	3
Heptachlor	5363060000	5262730000	5228770000	5273220000	5215450000	5268650000	1
Heptachlor epoxide	4619190000	4519300000	4529520000	4593130000	4631780000	4578580000	1
Methoxychlor	2089160000	2085630000	2099350000	2155560000	2175640000	2121070000	2
Tetrachloro-m-xylene	3572520000	3517330000	3502400000	3623970000	3630140000	3569270000	2

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Date(s) Analyzed:** 03/11/2025 03/11/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.70	4.60	4.80	134630000
		2	5.23	5.13	5.33	144652000
		3	5.94	5.84	6.04	464863000
		4	6.02	5.92	6.12	547710000
		5	6.87	6.77	6.97	104488000
Toxaphene	500	1	6.24	6.14	6.34	25951700
		2	6.44	6.34	6.54	16397600
		3	7.06	6.96	7.16	82030600
		4	7.15	7.05	7.25	62943200
		5	7.93	7.83	8.03	45040400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Date(s) Analyzed:** 03/11/2025 03/11/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.77	3.67	3.87	148442000
		2	4.35	4.25	4.45	174676000
		3	4.97	4.87	5.07	522517000
		4	5.04	4.94	5.14	515418000
		5	5.93	5.83	6.03	187177000
Toxaphene	500	1	5.00	4.90	5.10	26020300
		2	5.32	5.22	5.42	25489100
		3	5.68	5.58	5.78	28236400
		4	6.60	6.50	6.70	96540400
		5	7.04	6.94	7.14	93337600

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL095205.D RT 075 = PL095206.D

RT 050 = PL095207.D RT 025 = PL095208.D RT 005 = PL095209.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
Endrin	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
gamma-BHC (Lindane)	4.32	4.32	4.32	4.32	4.32	4.32	4.22	4.42
Heptachlor	4.91	4.91	4.91	4.91	4.91	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.53	3.54	3.53	3.43	3.63

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL095205.D RT 075 = PL095206.D

RT 050 = PL095207.D RT 025 = PL095208.D RT 005 = PL095209.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	7.90	7.90	7.90	7.90	7.90	7.90	7.80	8.00
Endrin	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
gamma-BHC (Lindane)	3.60	3.60	3.60	3.60	3.60	3.60	3.50	3.70
Heptachlor	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.72	4.72	4.72	4.72	4.72	4.72	4.62	4.82
Methoxychlor	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL095205.D **CF 075 =** PL095206.D

CF 050 = PL095207.D **CF 025 =** PL095208.D **CF 005 =** PL095209.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	2152650000	2143060000	2315860000	2506920000	2920000000	2407700000	13
Endrin	2427110000	2378350000	2522880000	2698310000	3004020000	2606130000	10
gamma-BHC (Lindane)	3655690000	3593350000	3721550000	3933060000	4324270000	3845590000	8
Heptachlor	3396740000	3361020000	3535970000	3806720000	4231640000	3666420000	10
Heptachlor epoxide	2983280000	2943510000	3103640000	3358770000	3664680000	3210780000	9
Methoxychlor	1227700000	1216120000	1306040000	1403800000	1543530000	1339440000	10
Tetrachloro-m-xylene	2536040000	2534180000	2646610000	2847530000	3152050000	2743280000	10

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Calibration Date(s):** 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL095205.D **CF 075 =** PL095206.D

CF 050 = PL095207.D **CF 025 =** PL095208.D **CF 005 =** PL095209.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	4198950000	4104180000	4298770000	4455630000	4937900000	4399090000	7
Endrin	4170920000	4046000000	4174880000	4210140000	4285130000	4177410000	2
gamma-BHC (Lindane)	5366590000	5201940000	5275500000	5291420000	5180170000	5263120000	1
Heptachlor	5200960000	5062970000	5185650000	5266650000	5281100000	5199470000	2
Heptachlor epoxide	4497860000	4388170000	4526840000	4636840000	4793660000	4568670000	3
Methoxychlor	2188160000	2143820000	2244500000	2307260000	2344730000	2245690000	4
Tetrachloro-m-xylene	3639270000	3571250000	3666060000	3785580000	3943930000	3721220000	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Date(s) Analyzed:** 04/14/2025 04/14/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.70	4.60	4.80	127558000
		2	5.23	5.13	5.33	130182000
		3	5.94	5.84	6.04	468201000
		4	6.02	5.92	6.12	550131000
		5	6.87	6.77	6.97	107924000
Toxaphene	500	1	6.23	6.13	6.33	27376000
		2	6.44	6.34	6.54	14916800
		3	7.06	6.96	7.16	82942000
		4	7.15	7.05	7.25	64931700
		5	7.93	7.83	8.03	46223600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_L **Date(s) Analyzed:** 04/14/2025 04/14/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.76	3.66	3.86	147703000
		2	4.34	4.24	4.44	170474000
		3	4.97	4.87	5.07	498602000
		4	5.03	4.93	5.13	495465000
		5	5.93	5.83	6.03	183560000
Toxaphene	500	1	4.99	4.89	5.09	27499800
		2	5.32	5.22	5.42	25414900
		3	5.68	5.58	5.78	27465800
		4	6.59	6.49	6.69	96741800
		5	7.03	6.93	7.13	106909000

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 16:49 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.06	8.96	9.16	0.01
Tetrachloro-m-xylene	3.53	3.54	3.44	3.64	0.01
gamma-BHC (Lindane)	4.32	4.33	4.23	4.43	0.01
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 16:49 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.91	7.81	8.01	0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Heptachlor epoxide	4.72	4.73	4.63	4.83	0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.61	6.51	6.71	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095138.D **Time Analyzed:** 16:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.048	8.956	9.156	48.170	50.000	-3.7
Endrin	6.567	6.474	6.674	42.670	50.000	-14.7
gamma-BHC (Lindane)	4.323	4.227	4.427	45.190	50.000	-9.6
Heptachlor	4.910	4.815	5.015	42.960	50.000	-14.1
Heptachlor epoxide	5.678	5.583	5.783	44.200	50.000	-11.6
Methoxychlor	7.495	7.400	7.600	48.130	50.000	-3.7
Tetrachloro-m-xylene	3.534	3.438	3.638	46.390	50.000	-7.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095138.D **Time Analyzed:** 16:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.899	7.807	8.007	40.930	50.000	-18.1
Endrin	5.626	5.534	5.734	46.910	50.000	-6.2
gamma-BHC (Lindane)	3.599	3.504	3.704	50.840	50.000	1.7
Heptachlor	3.936	3.842	4.042	47.670	50.000	-4.7
Heptachlor epoxide	4.717	4.625	4.825	47.170	50.000	-5.7
Methoxychlor	6.599	6.507	6.707	44.680	50.000	-10.6
Tetrachloro-m-xylene	2.768	2.672	2.872	51.110	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 20:20 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.06	8.96	9.16	0.01
Tetrachloro-m-xylene	3.53	3.54	3.44	3.64	0.01
gamma-BHC (Lindane)	4.32	4.33	4.23	4.43	0.01
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 20:20 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.91	7.81	8.01	0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.01
Heptachlor epoxide	4.72	4.73	4.63	4.83	0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.61	6.51	6.71	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095149.D **Time Analyzed:** 20:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.047	8.956	9.156	50.060	50.000	0.1
Endrin	6.567	6.474	6.674	40.440	50.000	-19.1
gamma-BHC (Lindane)	4.322	4.227	4.427	47.980	50.000	-4.0
Heptachlor	4.909	4.815	5.015	44.270	50.000	-11.5
Heptachlor epoxide	5.677	5.583	5.783	46.130	50.000	-7.7
Methoxychlor	7.492	7.400	7.600	46.330	50.000	-7.3
Tetrachloro-m-xylene	3.534	3.438	3.638	49.030	50.000	-1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095149.D **Time Analyzed:** 20:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.898	7.807	8.007	48.140	50.000	-3.7
Endrin	5.626	5.534	5.734	45.520	50.000	-9.0
gamma-BHC (Lindane)	3.598	3.504	3.704	53.340	50.000	6.7
Heptachlor	3.935	3.842	4.042	49.330	50.000	-1.3
Heptachlor epoxide	4.717	4.625	4.825	50.590	50.000	1.2
Methoxychlor	6.599	6.507	6.707	45.780	50.000	-8.4
Tetrachloro-m-xylene	2.767	2.672	2.872	53.560	50.000	7.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 23:33 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.06	8.96	9.16	0.01
Tetrachloro-m-xylene	3.53	3.54	3.44	3.64	0.01
gamma-BHC (Lindane)	4.32	4.33	4.23	4.43	0.01
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 23:33 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.91	7.81	8.01	0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.01
Heptachlor epoxide	4.72	4.73	4.63	4.83	0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.61	6.51	6.71	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095163.D **Time Analyzed:** 23:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.045	8.956	9.156	50.730	50.000	1.5
Endrin	6.567	6.474	6.674	41.680	50.000	-16.6
gamma-BHC (Lindane)	4.322	4.227	4.427	46.400	50.000	-7.2
Heptachlor	4.909	4.815	5.015	43.480	50.000	-13.0
Heptachlor epoxide	5.678	5.583	5.783	46.450	50.000	-7.1
Methoxychlor	7.494	7.400	7.600	47.060	50.000	-5.9
Tetrachloro-m-xylene	3.534	3.438	3.638	46.840	50.000	-6.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095163.D **Time Analyzed:** 23:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.897	7.807	8.007	50.810	50.000	1.6
Endrin	5.625	5.534	5.734	46.200	50.000	-7.6
gamma-BHC (Lindane)	3.599	3.504	3.704	50.930	50.000	1.9
Heptachlor	3.935	3.842	4.042	47.430	50.000	-5.1
Heptachlor epoxide	4.717	4.625	4.825	48.940	50.000	-2.1
Methoxychlor	6.598	6.507	6.707	47.380	50.000	-5.2
Tetrachloro-m-xylene	2.768	2.672	2.872	51.170	50.000	2.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 11:21 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	-0.01
Heptachlor	4.92	4.91	4.81	5.01	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 11:21 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.90	7.80	8.00	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.60	6.50	6.70	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095226.D **Time Analyzed:** 11:21

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.058	8.953	9.153	48.620	50.000	-2.8
Endrin	6.573	6.471	6.671	55.430	50.000	10.9
gamma-BHC (Lindane)	4.327	4.223	4.423	51.610	50.000	3.2
Heptachlor	4.915	4.811	5.011	51.810	50.000	3.6
Heptachlor epoxide	5.684	5.580	5.780	50.300	50.000	0.6
Methoxychlor	7.503	7.398	7.598	50.000	50.000	0.0
Tetrachloro-m-xylene	3.539	3.435	3.635	50.650	50.000	1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095226.D **Time Analyzed:** 11:21

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.901	7.800	8.000	48.840	50.000	-2.3
Endrin	5.629	5.527	5.727	50.820	50.000	1.6
gamma-BHC (Lindane)	3.599	3.499	3.699	46.180	50.000	-7.6
Heptachlor	3.937	3.836	4.036	50.060	50.000	0.1
Heptachlor epoxide	4.719	4.618	4.818	49.610	50.000	-0.8
Methoxychlor	6.601	6.499	6.699	50.970	50.000	1.9
Tetrachloro-m-xylene	2.768	2.667	2.867	47.180	50.000	-5.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 15:08 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	-0.01
Heptachlor	4.92	4.91	4.81	5.01	-0.01
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Methoxychlor	7.51	7.50	7.40	7.60	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 15:08 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.61	6.60	6.50	6.70	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL05 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095236.D **Time Analyzed:** 15:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.063	8.953	9.153	51.570	50.000	3.1
Endrin	6.579	6.471	6.671	55.680	50.000	11.4
gamma-BHC (Lindane)	4.331	4.223	4.423	51.130	50.000	2.3
Heptachlor	4.919	4.811	5.011	52.890	50.000	5.8
Heptachlor epoxide	5.688	5.580	5.780	51.510	50.000	3.0
Methoxychlor	7.507	7.398	7.598	49.330	50.000	-1.3
Tetrachloro-m-xylene	3.543	3.435	3.635	55.220	50.000	10.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL05 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095236.D **Time Analyzed:** 15:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.906	7.800	8.000	43.400	50.000	-13.2
Endrin	5.631	5.527	5.727	53.150	50.000	6.3
gamma-BHC (Lindane)	3.602	3.499	3.699	49.310	50.000	-1.4
Heptachlor	3.940	3.836	4.036	52.310	50.000	4.6
Heptachlor epoxide	4.722	4.618	4.818	51.290	50.000	2.6
Methoxychlor	6.605	6.499	6.699	50.080	50.000	0.2
Tetrachloro-m-xylene	2.770	2.667	2.867	52.570	50.000	5.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094567.D **Date Analyzed:** 03/11/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:08

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.052	8.950	9.150	20.540	20.000	2.7
Tetrachloro-m-xylene	3.536	3.490	3.590	19.600	20.000	-2.0
alpha-BHC	3.992	3.940	4.040	10.230	10.000	2.3
beta-BHC	4.524	4.470	4.570	10.180	10.000	1.8
gamma-BHC (Lindane)	4.325	4.270	4.380	10.310	10.000	3.1
Endrin	6.572	6.500	6.640	43.430	50.000	-13.1
4,4'-DDT	7.021	6.950	7.090	87.030	100.000	-13.0
Methoxychlor	7.498	7.430	7.570	214.630	250.000	-14.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094567.D **Date Analyzed:** 03/11/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:08

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.905	7.800	8.010	19.590	20.000	-2.1
Tetrachloro-m-xylene	2.771	2.720	2.820	19.320	20.000	-3.4
alpha-BHC	3.273	3.220	3.320	9.150	10.000	-8.5
beta-BHC	3.903	3.850	3.950	10.130	10.000	1.3
gamma-BHC (Lindane)	3.603	3.550	3.650	9.160	10.000	-8.4
Endrin	5.632	5.560	5.700	44.410	50.000	-11.2
4,4'-DDT	6.030	5.960	6.100	97.400	100.000	-2.6
Methoxychlor	6.605	6.530	6.680	224.380	250.000	-10.2

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095128.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.049	8.950	9.150	26.150	20.000	30.8
Tetrachloro-m-xylene	3.536	3.490	3.590	23.490	20.000	17.5
alpha-BHC	3.992	3.940	4.040	12.010	10.000	20.1
beta-BHC	4.523	4.470	4.570	12.040	10.000	20.4
gamma-BHC (Lindane)	4.324	4.270	4.370	12.060	10.000	20.6
Endrin	6.569	6.500	6.640	50.710	50.000	1.4
4,4'-DDT	7.020	6.950	7.090	112.470	100.000	12.5
Methoxychlor	7.497	7.430	7.570	271.750	250.000	8.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095128.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.900	7.800	8.000	24.640	20.000	23.2
Tetrachloro-m-xylene	2.770	2.720	2.820	24.610	20.000	23.1
alpha-BHC	3.271	3.220	3.320	11.740	10.000	17.4
beta-BHC	3.901	3.850	3.950	13.350	10.000	33.5
gamma-BHC (Lindane)	3.600	3.550	3.650	11.860	10.000	18.6
Endrin	5.627	5.560	5.700	56.090	50.000	12.2
4,4'-DDT	6.026	5.960	6.100	122.140	100.000	22.1
Methoxychlor	6.599	6.530	6.670	276.490	250.000	10.6

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095148.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.047	8.950	9.150	22.310	20.000	11.6
Tetrachloro-m-xylene	3.534	3.480	3.580	21.230	20.000	6.2
alpha-BHC	3.990	3.940	4.040	10.890	10.000	8.9
beta-BHC	4.522	4.470	4.570	10.930	10.000	9.3
gamma-BHC (Lindane)	4.322	4.270	4.370	10.920	10.000	9.2
Endrin	6.568	6.500	6.640	41.960	50.000	-16.1
4,4'-DDT	7.019	6.950	7.090	86.460	100.000	-13.5
Methoxychlor	7.496	7.430	7.570	221.620	250.000	-11.4

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095148.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.898	7.800	8.000	19.250	20.000	-3.8
Tetrachloro-m-xylene	2.768	2.720	2.820	23.240	20.000	16.2
alpha-BHC	3.269	3.220	3.320	10.910	10.000	9.1
beta-BHC	3.899	3.850	3.950	12.120	10.000	21.2
gamma-BHC (Lindane)	3.598	3.550	3.650	10.830	10.000	8.3
Endrin	5.626	5.560	5.700	46.980	50.000	-6.0
4,4'-DDT	6.024	5.950	6.090	94.370	100.000	-5.6
Methoxychlor	6.599	6.530	6.670	221.180	250.000	-11.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095203.D **Date Analyzed:** 04/14/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:40

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.050	8.950	9.150	22.620	20.000	13.1
Tetrachloro-m-xylene	3.534	3.480	3.580	21.850	20.000	9.3
alpha-BHC	3.990	3.940	4.040	11.380	10.000	13.8
beta-BHC	4.523	4.470	4.570	12.790	10.000	27.9
gamma-BHC (Lindane)	4.323	4.270	4.370	11.530	10.000	15.3
Endrin	6.570	6.500	6.640	50.330	50.000	0.7
4,4'-DDT	7.021	6.950	7.090	101.530	100.000	1.5
Methoxychlor	7.498	7.430	7.570	238.190	250.000	-4.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095203.D **Date Analyzed:** 04/14/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:40

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.899	7.800	8.000	21.790	20.000	9.0
Tetrachloro-m-xylene	2.767	2.720	2.820	21.170	20.000	5.9
alpha-BHC	3.269	3.220	3.320	10.330	10.000	3.3
beta-BHC	3.899	3.850	3.950	11.180	10.000	11.8
gamma-BHC (Lindane)	3.598	3.550	3.650	10.190	10.000	1.9
Endrin	5.626	5.560	5.700	51.510	50.000	3.0
4,4'-DDT	6.024	5.950	6.090	109.830	100.000	9.8
Methoxychlor	6.598	6.530	6.670	252.390	250.000	1.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095225.D **Date Analyzed:** 04/15/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.053	8.950	9.150	23.300	20.000	16.5
Tetrachloro-m-xylene	3.536	3.490	3.590	23.590	20.000	18.0
alpha-BHC	3.992	3.940	4.040	12.460	10.000	24.6
beta-BHC	4.524	4.470	4.570	12.250	10.000	22.5
gamma-BHC (Lindane)	4.325	4.270	4.380	12.570	10.000	25.7
Endrin	6.570	6.500	6.640	58.070	50.000	16.1
4,4'-DDT	7.022	6.950	7.090	113.210	100.000	13.2
Methoxychlor	7.499	7.430	7.570	255.200	250.000	2.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095225.D **Date Analyzed:** 04/15/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.900	7.800	8.000	22.650	20.000	13.3
Tetrachloro-m-xylene	2.768	2.720	2.820	21.230	20.000	6.2
alpha-BHC	3.270	3.220	3.320	10.280	10.000	2.8
beta-BHC	3.900	3.850	3.950	10.920	10.000	9.2
gamma-BHC (Lindane)	3.600	3.550	3.650	9.700	10.000	-3.0
Endrin	5.628	5.560	5.700	53.160	50.000	6.3
4,4'-DDT	6.025	5.950	6.100	117.880	100.000	17.9
Methoxychlor	6.599	6.530	6.670	266.840	250.000	6.7

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/11/2025 03/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/11/2025	09:55	PL094566.D	9.05	3.54
PEM	PEM	03/11/2025	10:08	PL094567.D	9.05	3.54
RESCHK	RESCHK	03/11/2025	10:22	PL094568.D	9.05	3.54
PSTDICC100	PSTDICC100	03/11/2025	10:35	PL094569.D	9.05	3.54
PSTDICC075	PSTDICC075	03/11/2025	10:49	PL094570.D	9.06	3.54
PSTDICC050	PSTDICC050	03/11/2025	11:02	PL094571.D	9.06	3.54
PSTDICC025	PSTDICC025	03/11/2025	11:16	PL094572.D	9.06	3.54
PSTDICC005	PSTDICC005	03/11/2025	11:29	PL094573.D	9.05	3.54
PCHLORICC500	PCHLORICC500	03/11/2025	12:10	PL094576.D	9.06	3.54
PTOXICC500	PTOXICC500	03/11/2025	13:18	PL094581.D	9.05	3.54
PEM	PEM	04/09/2025	08:43	PL095128.D	9.05	3.54
I.BLK	I.BLK	04/09/2025	16:36	PL095137.D	9.05	3.53
PSTDCCC050	PSTDCCC050	04/09/2025	16:49	PL095138.D	9.05	3.53
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	18:58	PL095145.D	9.05	3.53
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	19:12	PL095146.D	9.05	3.53
I.BLK	I.BLK	04/09/2025	19:26	PL095147.D	9.05	3.53
PEM	PEM	04/09/2025	19:39	PL095148.D	9.05	3.53
PSTDCCC050	PSTDCCC050	04/09/2025	20:20	PL095149.D	9.05	3.53
PB167535BL	PB167535BL	04/09/2025	21:29	PL095154.D	9.05	3.53
PB167517TB	PB167517TB	04/09/2025	22:10	PL095157.D	9.05	3.53
B-149-SB01	Q1746-02	04/09/2025	22:51	PL095160.D	9.05	3.53
B-149-SB02	Q1746-04	04/09/2025	23:05	PL095161.D	9.05	3.53
I.BLK	I.BLK	04/09/2025	23:19	PL095162.D	9.05	3.53
PSTDCCC050	PSTDCCC050	04/09/2025	23:33	PL095163.D	9.05	3.53
I.BLK	I.BLK	04/14/2025	14:26	PL095202.D	9.05	3.53
PEM	PEM	04/14/2025	14:40	PL095203.D	9.05	3.53
RESCHK	RESCHK	04/14/2025	14:54	PL095204.D	9.05	3.53
PSTDICC100	PSTDICC100	04/14/2025	15:07	PL095205.D	9.05	3.54
PSTDICC075	PSTDICC075	04/14/2025	15:21	PL095206.D	9.05	3.54
PSTDICC050	PSTDICC050	04/14/2025	15:35	PL095207.D	9.05	3.54
PSTDICC025	PSTDICC025	04/14/2025	16:02	PL095208.D	9.05	3.53
PSTDICC005	PSTDICC005	04/14/2025	16:15	PL095209.D	9.05	3.54
PCHLORICC500	PCHLORICC500	04/14/2025	16:56	PL095212.D	9.05	3.54
PTOXICC500	PTOXICC500	04/14/2025	18:05	PL095217.D	9.05	3.54
I.BLK	I.BLK	04/15/2025	10:37	PL095224.D	9.05	3.54
PEM	PEM	04/15/2025	10:51	PL095225.D	9.05	3.54
PSTDCCC050	PSTDCCC050	04/15/2025	11:21	PL095226.D	9.06	3.54
PB167535BS	PB167535BS	04/15/2025	13:05	PL095232.D	9.07	3.54
I.BLK	I.BLK	04/15/2025	13:57	PL095235.D	9.06	3.54
PSTDCCC050	PSTDCCC050	04/15/2025	15:08	PL095236.D	9.06	3.54

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/11/2025 03/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/11/2025	09:55	PL094566.D	7.91	2.77
PEM	PEM	03/11/2025	10:08	PL094567.D	7.91	2.77
RESCHK	RESCHK	03/11/2025	10:22	PL094568.D	7.91	2.77
PSTDICC100	PSTDICC100	03/11/2025	10:35	PL094569.D	7.91	2.77
PSTDICC075	PSTDICC075	03/11/2025	10:49	PL094570.D	7.91	2.77
PSTDICC050	PSTDICC050	03/11/2025	11:02	PL094571.D	7.91	2.77
PSTDICC025	PSTDICC025	03/11/2025	11:16	PL094572.D	7.91	2.77
PSTDICC005	PSTDICC005	03/11/2025	11:29	PL094573.D	7.91	2.77
PCHLORICC500	PCHLORICC500	03/11/2025	12:10	PL094576.D	7.91	2.77
PTOXICC500	PTOXICC500	03/11/2025	13:18	PL094581.D	7.91	2.77
PEM	PEM	04/09/2025	08:43	PL095128.D	7.90	2.77
I.BLK	I.BLK	04/09/2025	16:36	PL095137.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/09/2025	16:49	PL095138.D	7.90	2.77
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	18:58	PL095145.D	7.90	2.77
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	19:12	PL095146.D	7.90	2.77
I.BLK	I.BLK	04/09/2025	19:26	PL095147.D	7.90	2.77
PEM	PEM	04/09/2025	19:39	PL095148.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/09/2025	20:20	PL095149.D	7.90	2.77
PB167535BL	PB167535BL	04/09/2025	21:29	PL095154.D	7.90	2.77
PB167517TB	PB167517TB	04/09/2025	22:10	PL095157.D	7.90	2.77
B-149-SB01	Q1746-02	04/09/2025	22:51	PL095160.D	7.90	2.77
B-149-SB02	Q1746-04	04/09/2025	23:05	PL095161.D	7.92	2.79
I.BLK	I.BLK	04/09/2025	23:19	PL095162.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/09/2025	23:33	PL095163.D	7.90	2.77
I.BLK	I.BLK	04/14/2025	14:26	PL095202.D	7.90	2.77
PEM	PEM	04/14/2025	14:40	PL095203.D	7.90	2.77
RESCHK	RESCHK	04/14/2025	14:54	PL095204.D	7.90	2.77
PSTDICC100	PSTDICC100	04/14/2025	15:07	PL095205.D	7.90	2.77
PSTDICC075	PSTDICC075	04/14/2025	15:21	PL095206.D	7.90	2.77
PSTDICC050	PSTDICC050	04/14/2025	15:35	PL095207.D	7.90	2.77
PSTDICC025	PSTDICC025	04/14/2025	16:02	PL095208.D	7.90	2.77
PSTDICC005	PSTDICC005	04/14/2025	16:15	PL095209.D	7.90	2.77
PCHLORICC500	PCHLORICC500	04/14/2025	16:56	PL095212.D	7.90	2.77
PTOXICC500	PTOXICC500	04/14/2025	18:05	PL095217.D	7.90	2.77
I.BLK	I.BLK	04/15/2025	10:37	PL095224.D	7.90	2.77
PEM	PEM	04/15/2025	10:51	PL095225.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/15/2025	11:21	PL095226.D	7.90	2.77
PB167535BS	PB167535BS	04/15/2025	13:05	PL095232.D	7.91	2.77
I.BLK	I.BLK	04/15/2025	13:57	PL095235.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/15/2025	15:08	PL095236.D	7.91	2.77

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167535BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Lab Sample ID: PB167535BS **Date(s) Analyzed:** 04/15/2025 04/15/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.51	7.46	7.56	0.52	6.7
	2	6.60	6.55	6.65	0.48	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.46	0.9
	2	3.60	3.55	3.65	0.46	
Heptachlor	1	4.92	4.87	4.97	0.50	4.6
	2	3.94	3.89	3.99	0.48	
Heptachlor epoxide	1	5.69	5.64	5.74	0.49	0.6
	2	4.72	4.67	4.77	0.49	
Endrin	1	6.58	6.53	6.63	0.51	2.4
	2	5.63	5.58	5.68	0.52	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-LIQUID-20250404MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Lab Sample ID: Q1739-02MS **Date(s) Analyzed:** 04/09/2025 04/09/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	3.40	12.5
	2	6.60	6.55	6.65	3.00	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	2.90	6.7
	2	3.60	3.55	3.65	3.10	
Heptachlor	1	4.91	4.86	4.96	2.80	3.5
	2	3.94	3.89	3.99	2.90	
Heptachlor epoxide	1	5.68	5.63	5.73	3.00	3.4
	2	4.72	4.67	4.77	2.90	
Endrin	1	6.57	6.52	6.62	3.40	19.4
	2	5.63	5.58	5.68	2.80	

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
WC-LIQUID-20250404MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Lab Sample ID: Q1739-02MSD **Date(s) Analyzed:** 04/09/2025 04/09/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	3.40	6.1
	2	6.60	6.55	6.65	3.20	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	2.90	6.7
	2	3.60	3.55	3.65	3.10	
Heptachlor	1	4.91	4.86	4.96	2.80	3.6
	2	3.94	3.89	3.99	2.70	
Heptachlor epoxide	1	5.68	5.63	5.73	2.90	3.5
	2	4.72	4.67	4.77	2.80	
Endrin	1	6.57	6.52	6.62	3.30	20
	2	5.63	5.58	5.68	2.70	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.534	2.768	52050953	69105365	18.388	19.361
28)	SA Decachlor...	9.045	7.897	43763771	79532178	20.766	19.689
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

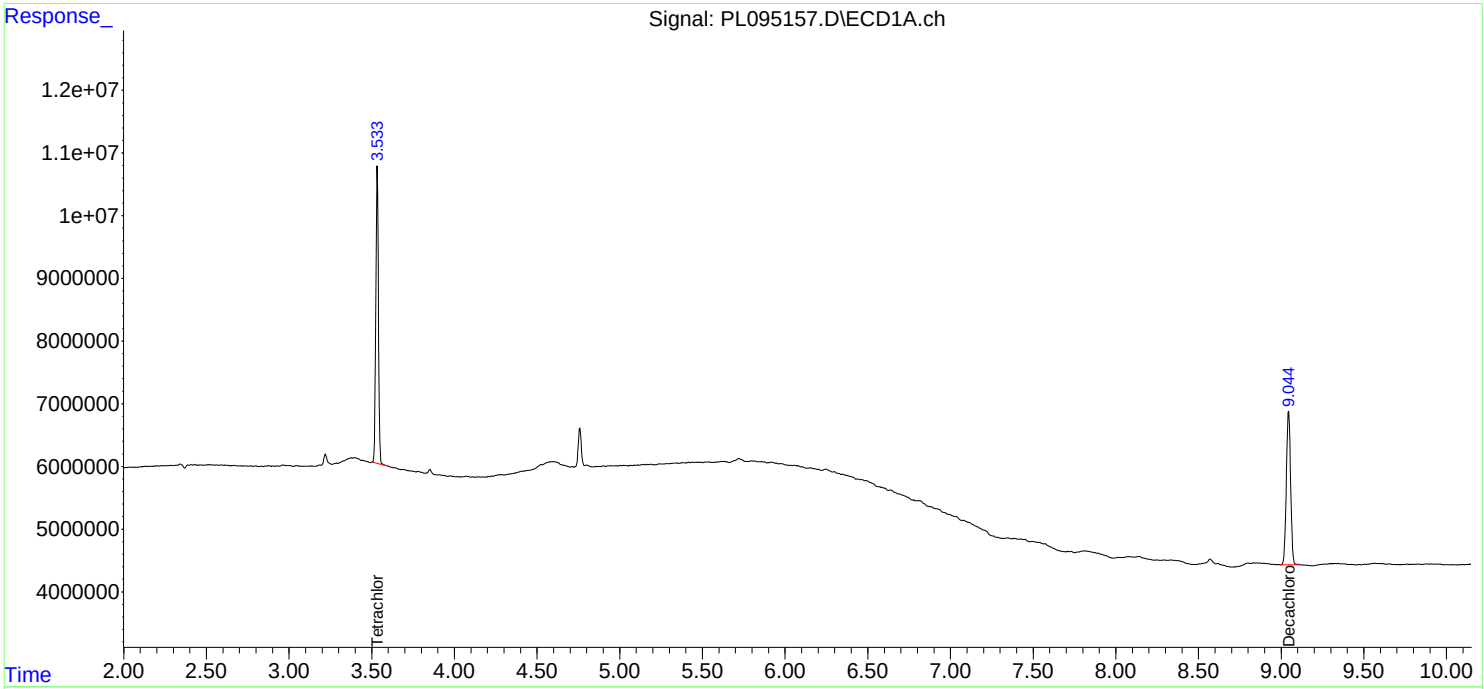
Sample Results: **PL095157.D**

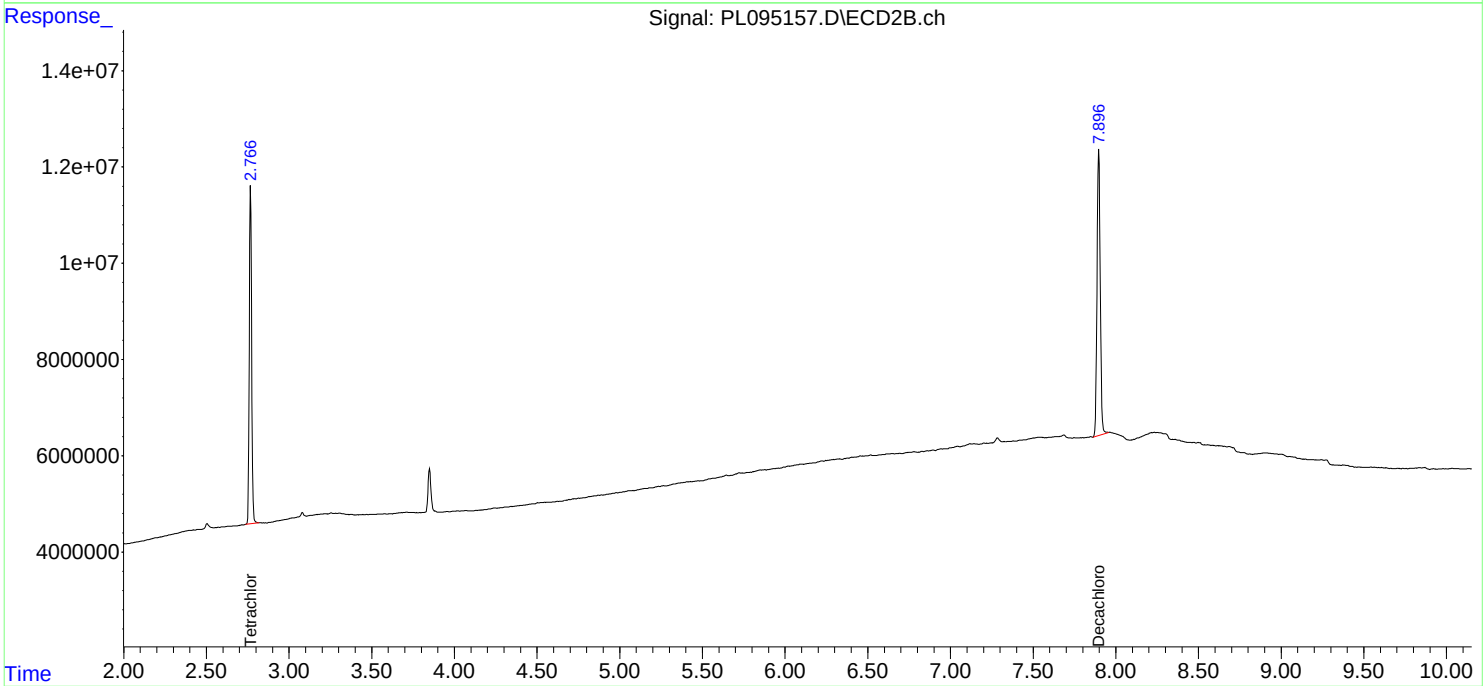
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 27 Sample Multiplier: 1

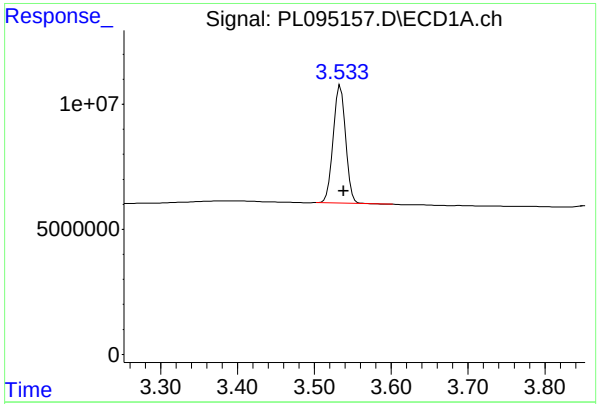
Instrument :
ECD_L
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



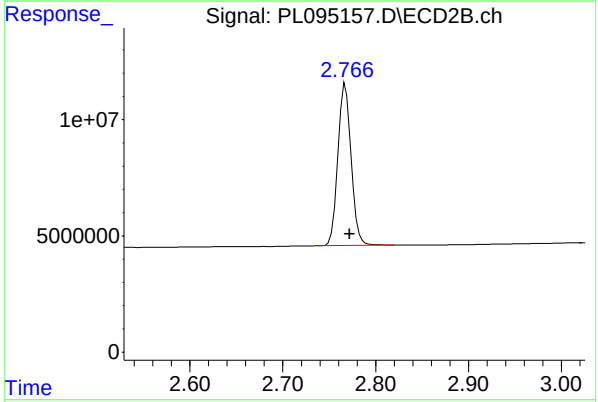




#1 Tetrachloro-m-xylene

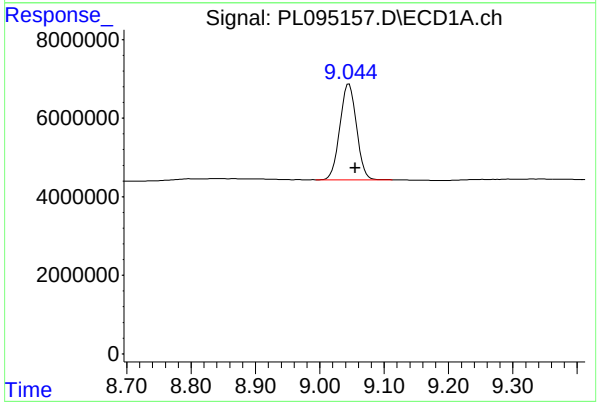
R.T.: 3.534 min
Delta R.T.: -0.004 min
Response: 52050953
Conc: 18.39 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB167517TB



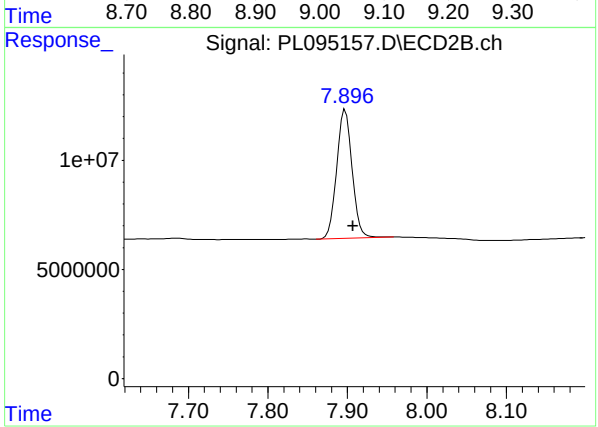
#1 Tetrachloro-m-xylene

R.T.: 2.768 min
Delta R.T.: -0.004 min
Response: 69105365
Conc: 19.36 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.045 min
Delta R.T.: -0.010 min
Response: 43763771
Conc: 20.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.897 min
Delta R.T.: -0.009 min
Response: 79532178
Conc: 19.69 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:51
Operator : AR\AJ
Sample : Q1746-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
B-149-SB01

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.533	2.768	49582347	69239865	17.516m	19.399
28)	SA Decachlor...	9.046	7.897	49512487	88136641	23.494	21.819
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PL095160.D**

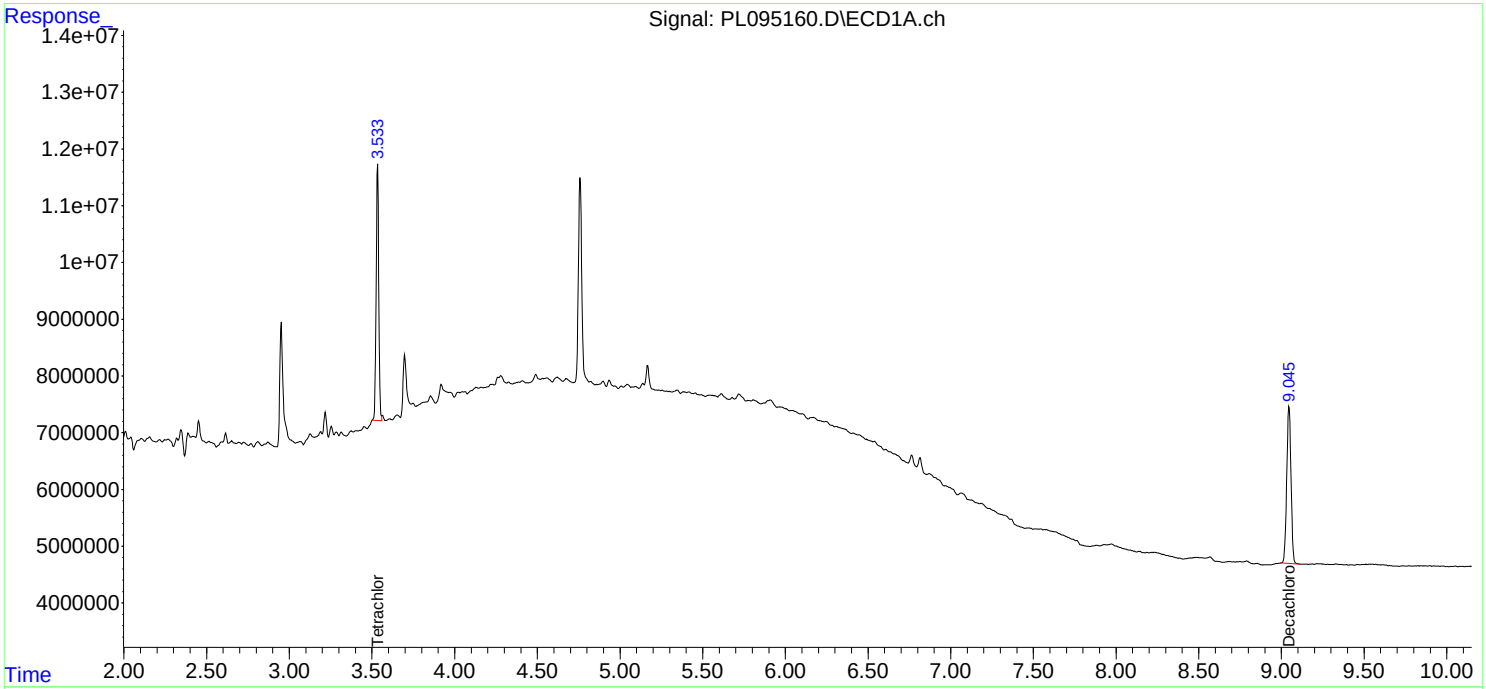
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:51
Operator : AR\AJ
Sample : Q1746-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

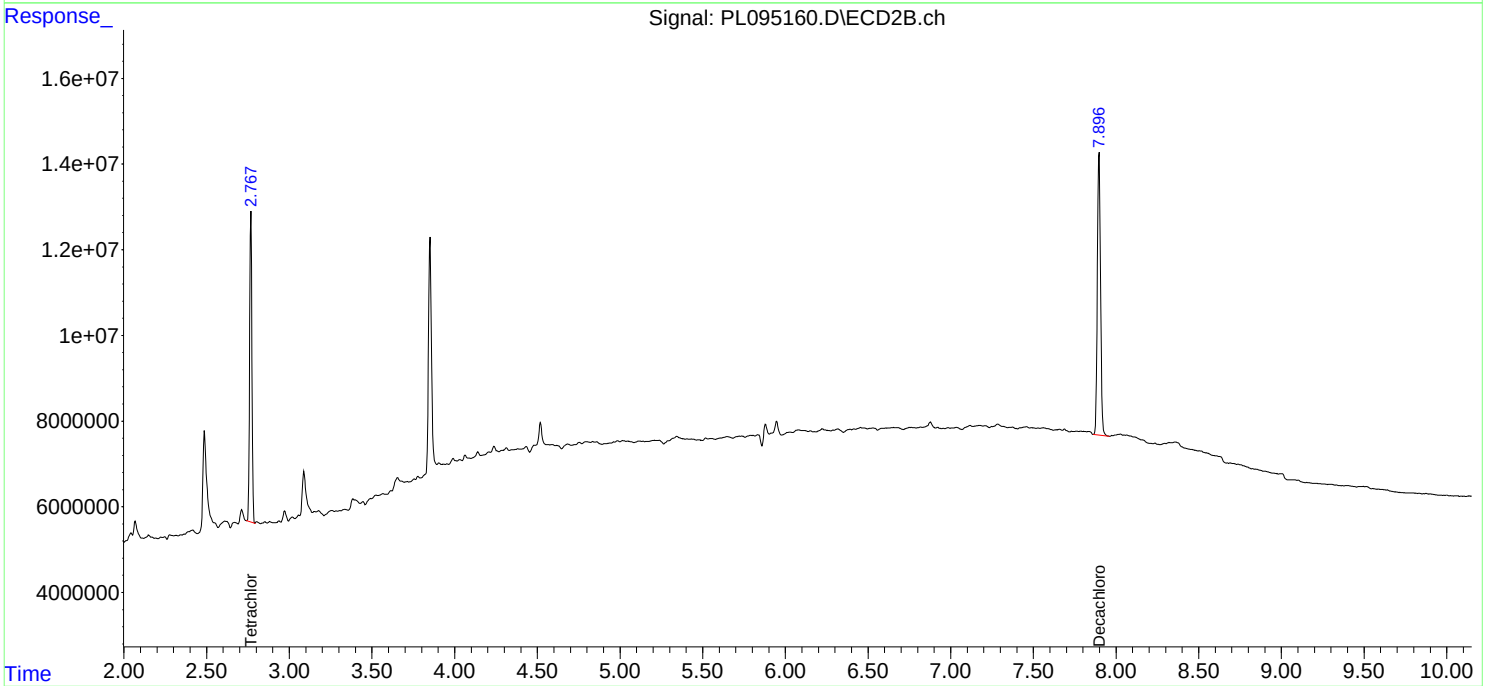
Instrument :
ECD_L
ClientSampleId :
B-149-SB01

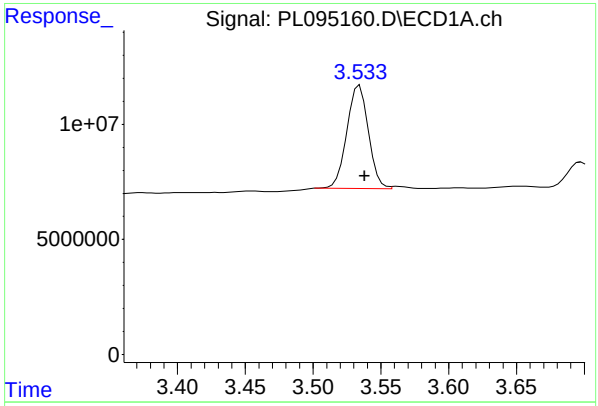
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm







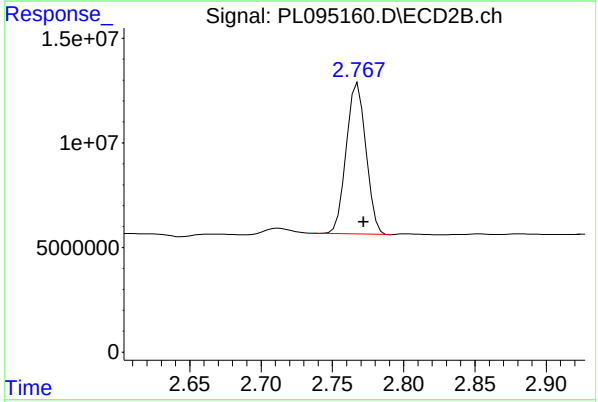
#1 Tetrachloro-m-xylene

R.T.: 3.533 min
Delta R.T.: -0.005 mi
Response: 49582347
Conc: 17.52 ng/m

Instrument :
ECD_L
ClientSampleId :
B-149-SB01

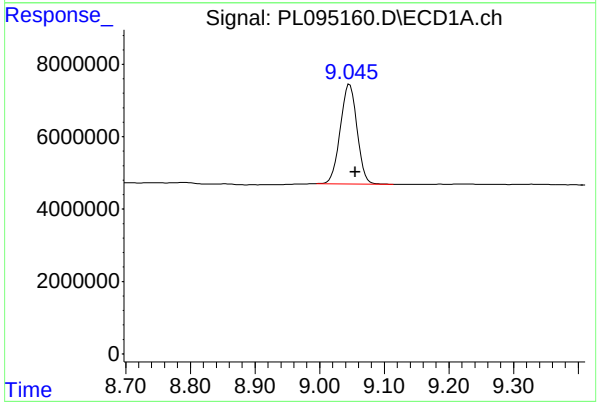
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



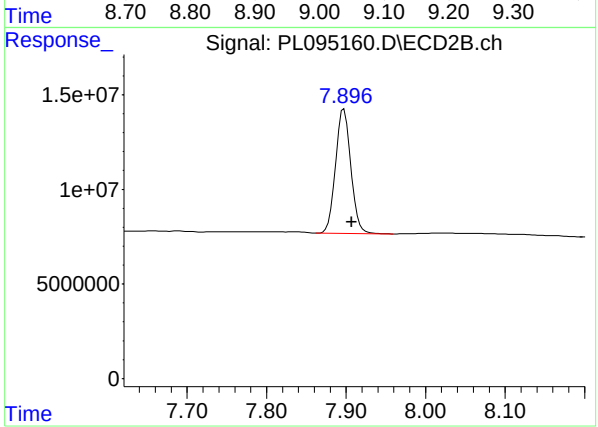
#1 Tetrachloro-m-xylene

R.T.: 2.768 min
Delta R.T.: -0.004 min
Response: 69239865
Conc: 19.40 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.046 min
Delta R.T.: -0.009 min
Response: 49512487
Conc: 23.49 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.897 min
Delta R.T.: -0.009 min
Response: 88136641
Conc: 21.82 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 23:05
Operator : AR\AJ
Sample : Q1746-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
B-149-SB02

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.533	2.787	49244616	69759800	17.397m	19.545m
28)	SA Decachlor...	9.046	7.918	49163019	90461468	23.328	22.395
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

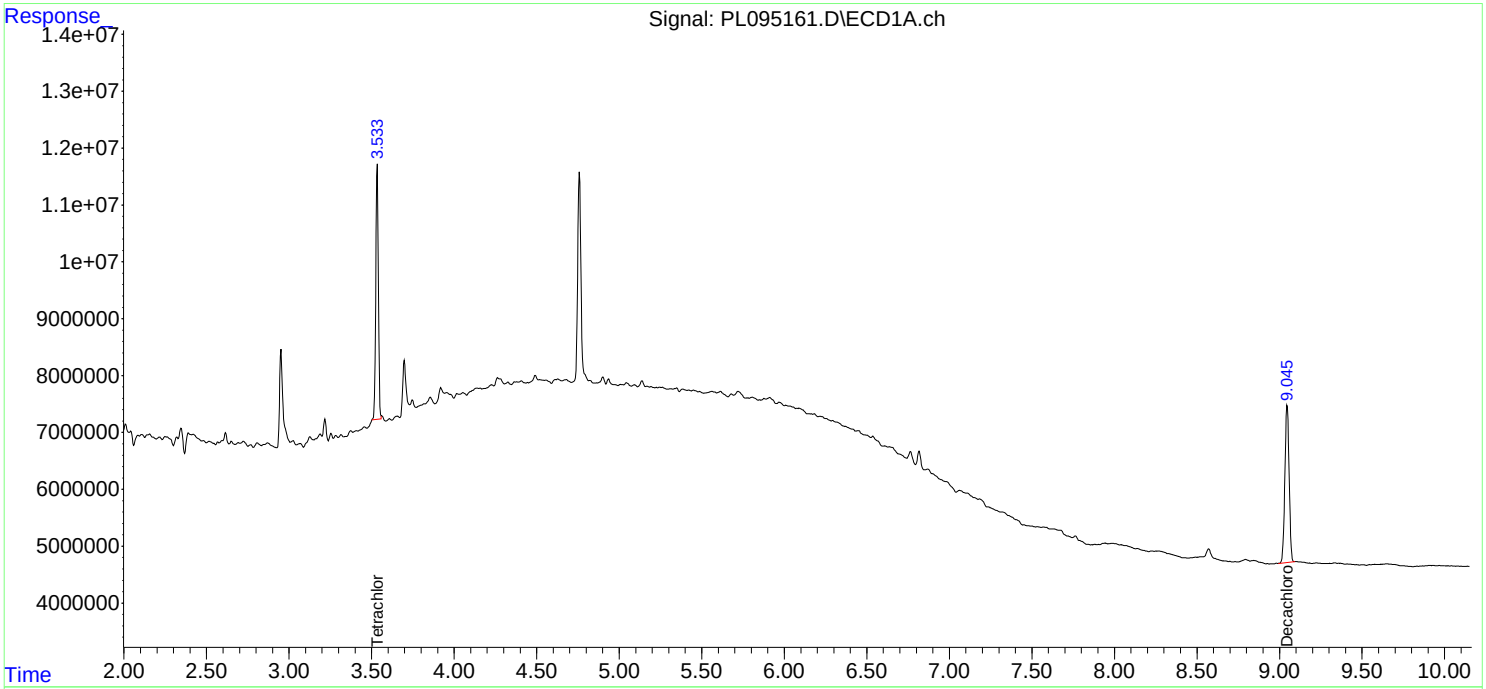
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 23:05
Operator : AR\AJ
Sample : Q1746-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

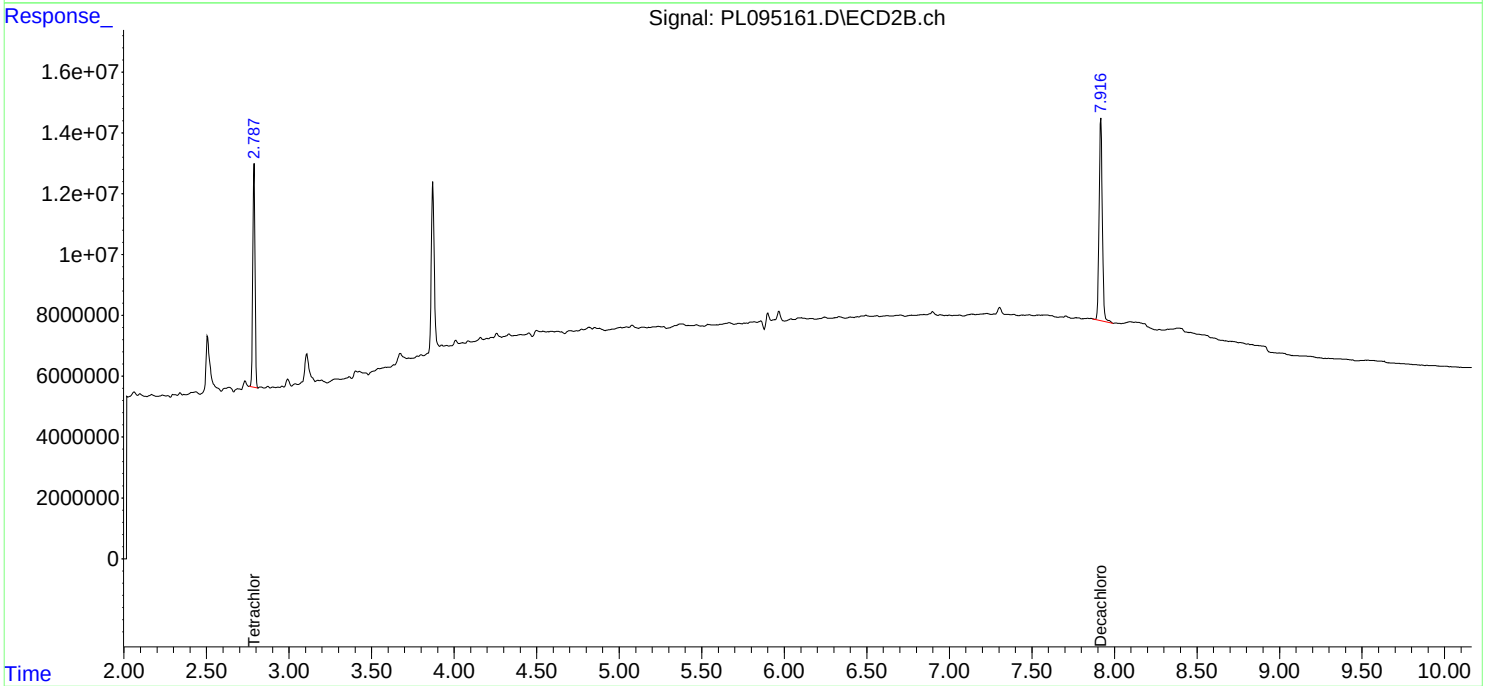
Instrument :
ECD_L
ClientSampleId :
B-149-SB02

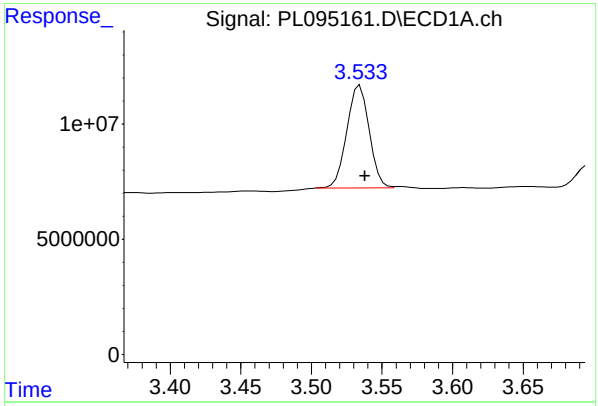
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm







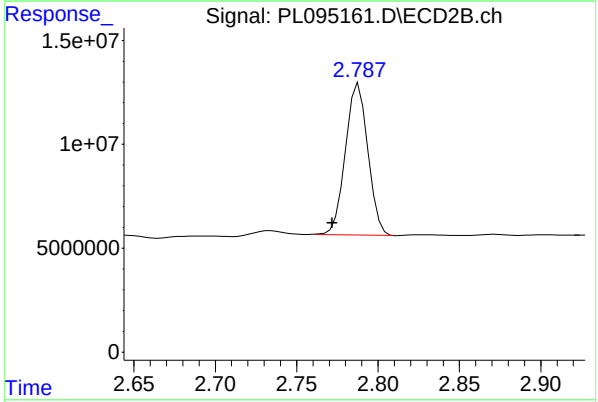
#1 Tetrachloro-m-xylene

R.T.: 3.533 min
Delta R.T.: -0.005 mi
Response: 49244616
Conc: 17.40 ng/m

Instrument :
ECD_L
ClientSampleId :
B-149-SB02

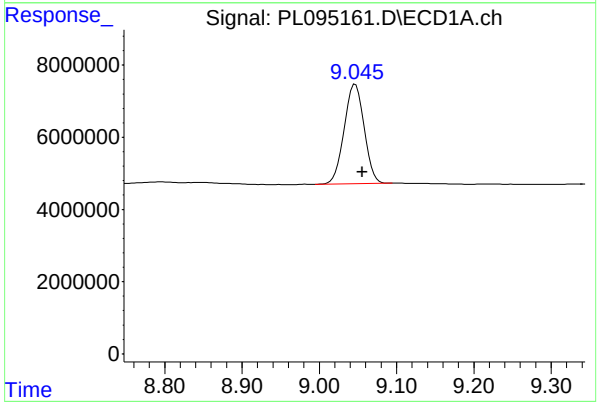
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



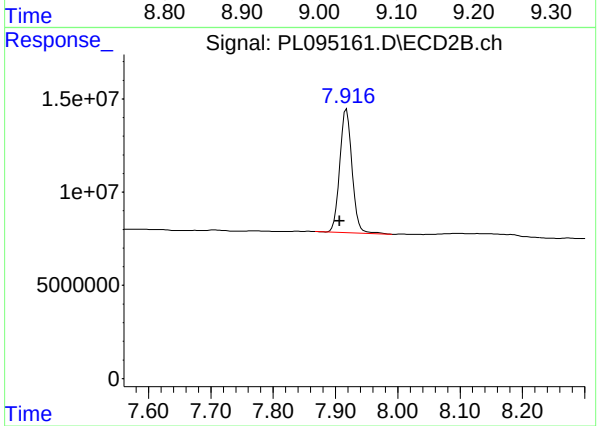
#1 Tetrachloro-m-xylene

R.T.: 2.787 min
Delta R.T.: 0.015 min
Response: 69759800
Conc: 19.54 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.046 min
Delta R.T.: -0.009 min
Response: 49163019
Conc: 23.33 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.011 min
Response: 90461468
Conc: 22.40 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:29
Operator : AR\AJ
Sample : PB167535BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167535BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.534	2.768	54637747	72230684	19.302	20.237
28)	SA Decachlor...	9.047	7.897	43956546	78769476	20.858	19.500
	Target Compounds						

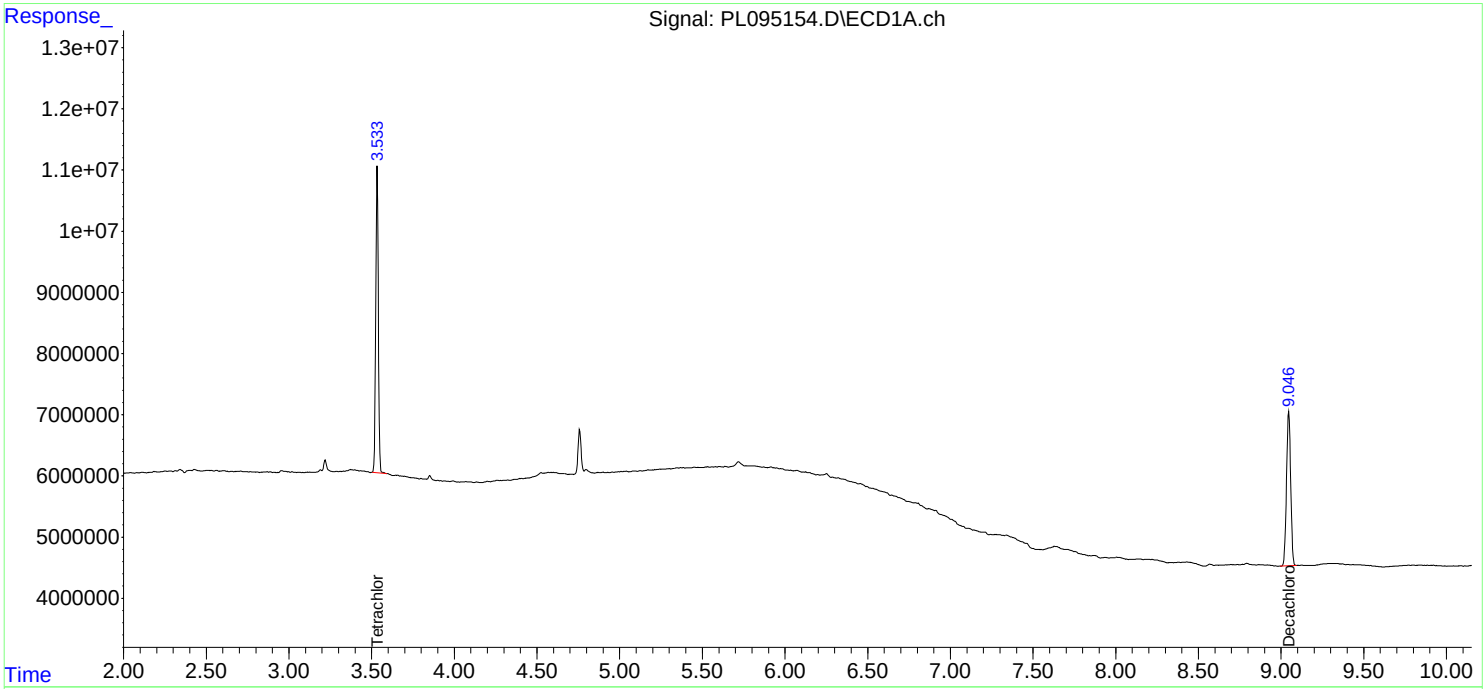
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

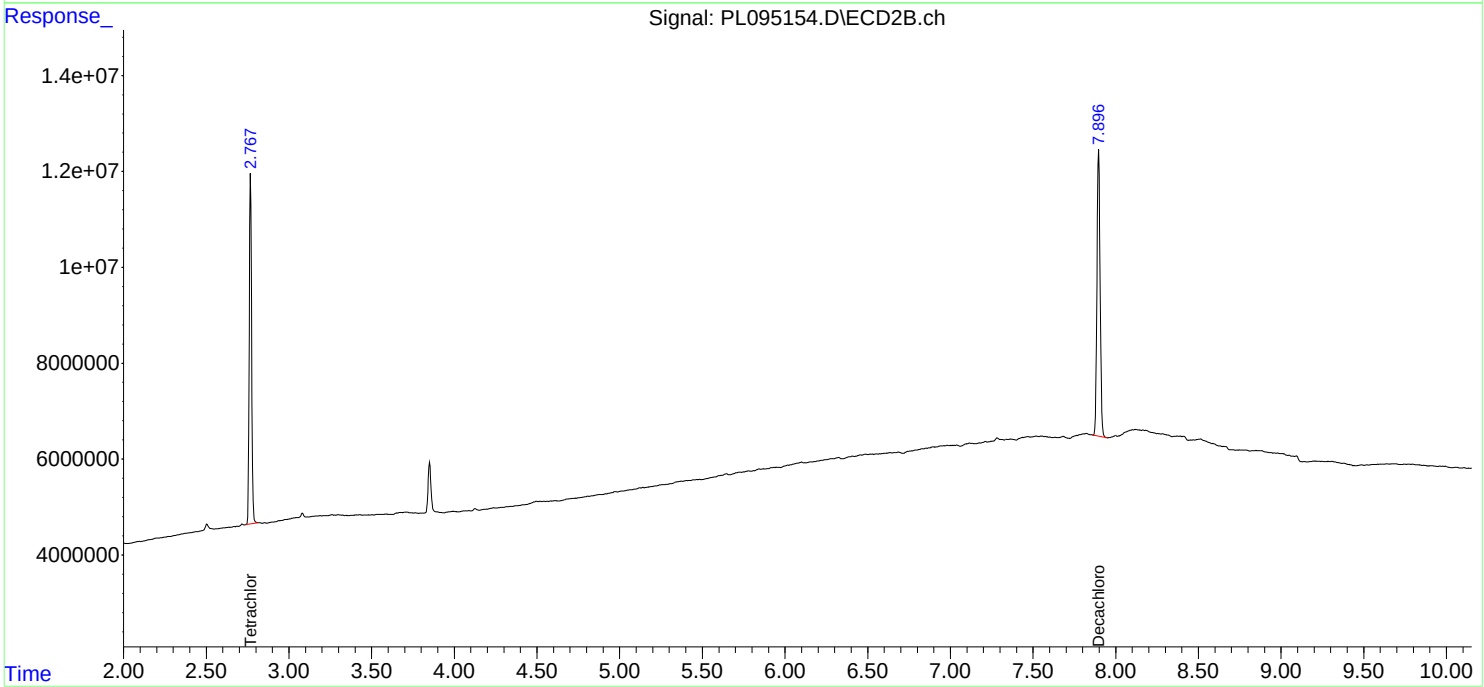
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:29
Operator : AR\AJ
Sample : PB167535BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

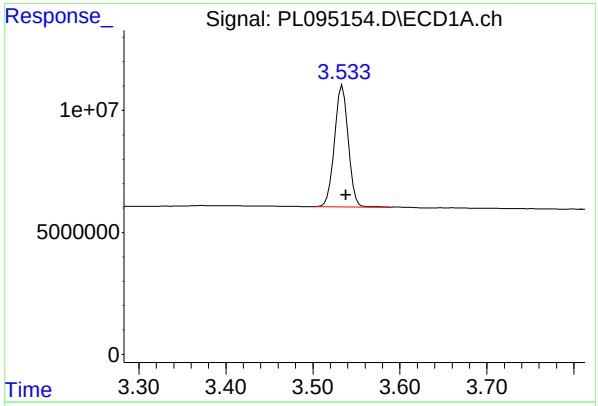
Instrument :
ECD_L
ClientSampleId :
PB167535BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



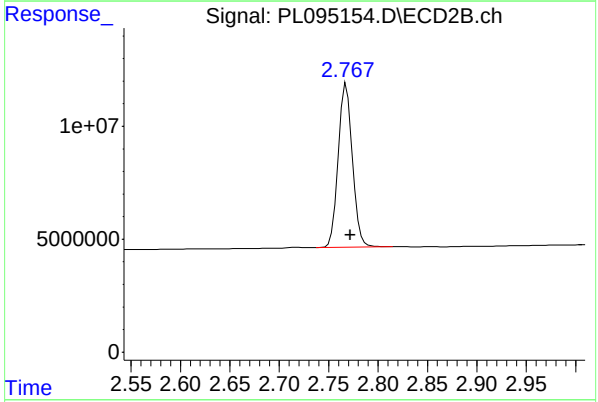




#1 Tetrachloro-m-xylene

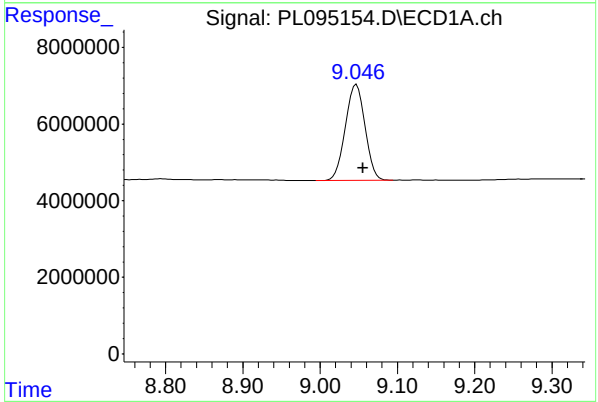
R.T.: 3.534 min
Delta R.T.: -0.004 min
Response: 54637747
Conc: 19.30 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB167535BL



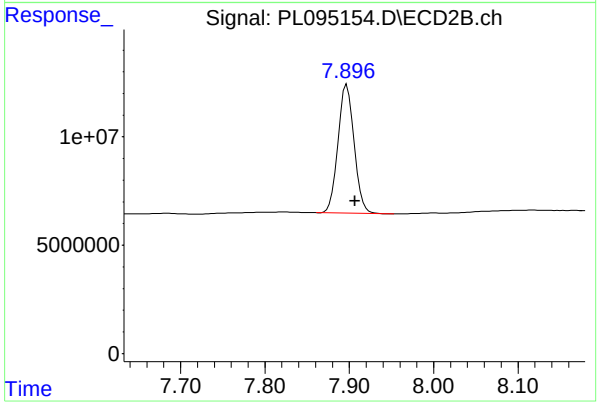
#1 Tetrachloro-m-xylene

R.T.: 2.768 min
Delta R.T.: -0.004 min
Response: 72230684
Conc: 20.24 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.047 min
Delta R.T.: -0.009 min
Response: 43956546
Conc: 20.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.897 min
Delta R.T.: -0.010 min
Response: 78769476
Conc: 19.50 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL041525\
Data File : PL095232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Apr 2025 13:05
Operator : AR\AJ
Sample : PB167535BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167535BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/16/2025
Supervised By :mohammad ahmed 04/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 14:13:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL041425.M
Quant Title : GC Extractables
QLast Update : Mon Apr 14 19:12:49 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.544	2.768	45459137	56956063	16.571	15.306
28)	SA Decachlor...	9.066	7.905	45753604	67955188	19.003	15.448
	Target Compounds						
2)	A alpha-BHC	4.000	3.270	184.3E6	249.3E6	45.860	45.020
3)	MA gamma-BHC...	4.334	3.601	176.7E6	239.8E6	45.956	45.570
4)	MA Heptachlor	4.922	3.938	182.6E6	247.4E6	49.800	47.578
5)	MB Aldrin	5.263	4.218	175.4E6	224.6E6	49.689	46.086
6)	B beta-BHC	4.533	3.901	79305563	103.1E6	45.233	44.477
7)	B delta-BHC	4.778	4.130	191.5E6	221.0E6	48.858m	42.754
8)	B Heptachlo...	5.690	4.720	157.1E6	222.2E6	48.924	48.638
9)	A Endosulfan I	6.076	5.090	156.0E6	219.2E6	50.356	50.499
10)	B gamma-Chl...	5.946	4.971	167.7E6	235.6E6	50.200	48.906
11)	B alpha-Chl...	6.025	5.034	166.0E6	232.8E6	50.011	49.108
12)	B 4,4'-DDE	6.200	5.223	160.4E6	233.5E6	49.067	48.506
13)	MA Dieldrin	6.351	5.355	166.0E6	236.6E6	50.388	49.300
14)	MA Endrin	6.581	5.631	133.0E6	218.3E6	51.047	52.266
15)	B Endosulfa...	6.802	5.926	142.4E6	213.0E6	49.941	48.515
16)	A 4,4'-DDD	6.718	5.779	124.6E6	187.9E6	49.061	48.315
17)	MA 4,4'-DDT	7.032	6.028	135.0E6	210.0E6	53.017	50.415
18)	B Endrin al...	6.932	6.105	110.0E6	162.5E6	49.969	48.211
19)	B Endosulfa...	7.168	6.329	128.6E6	207.9E6	50.048	49.788
20)	A Methoxychlor	7.509	6.604	69469908	108.9E6	51.865	48.486
21)	B Endrin ke...	7.653	6.834	140.1E6	236.5E6	48.547	46.901
22)	Mirex	8.125	7.013	104.9E6	171.5E6	49.330	43.617

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

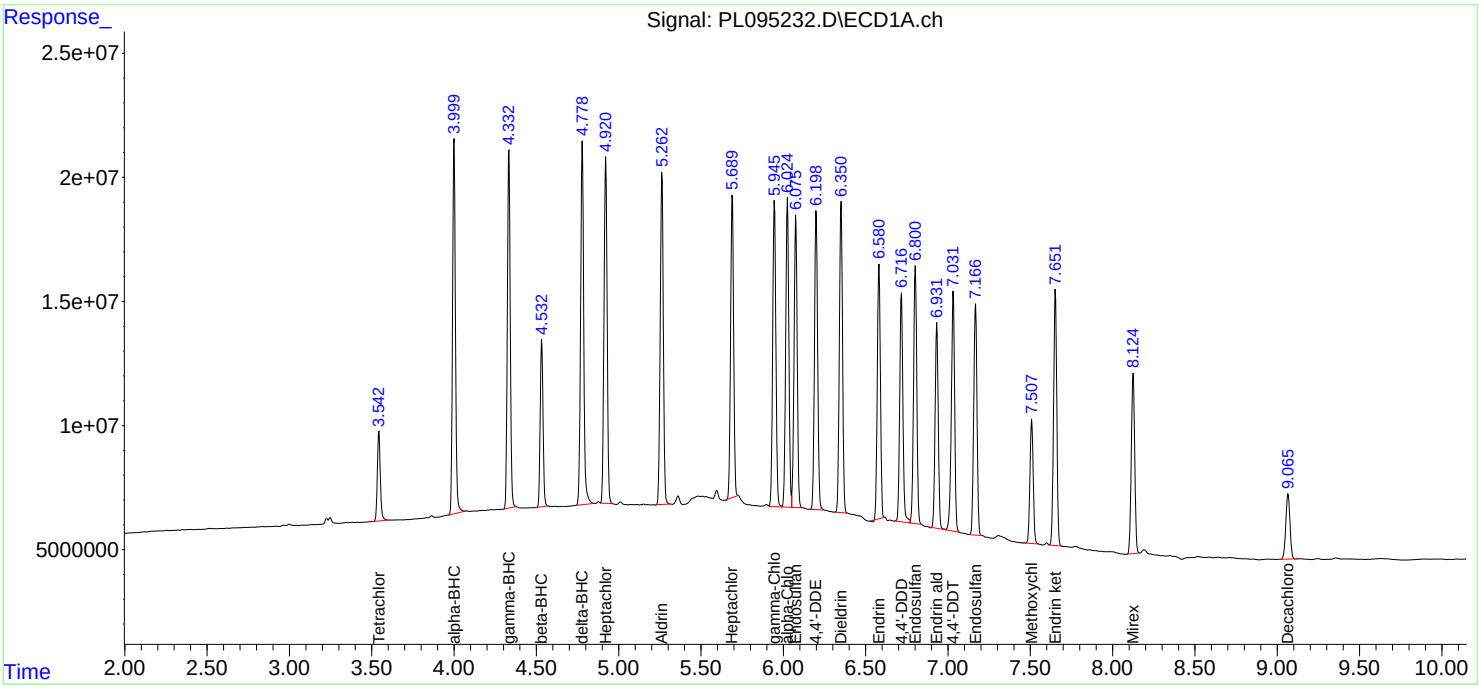
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL041525\
Data File : PL095232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Apr 2025 13:05
Operator : AR\AJ
Sample : PB167535BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

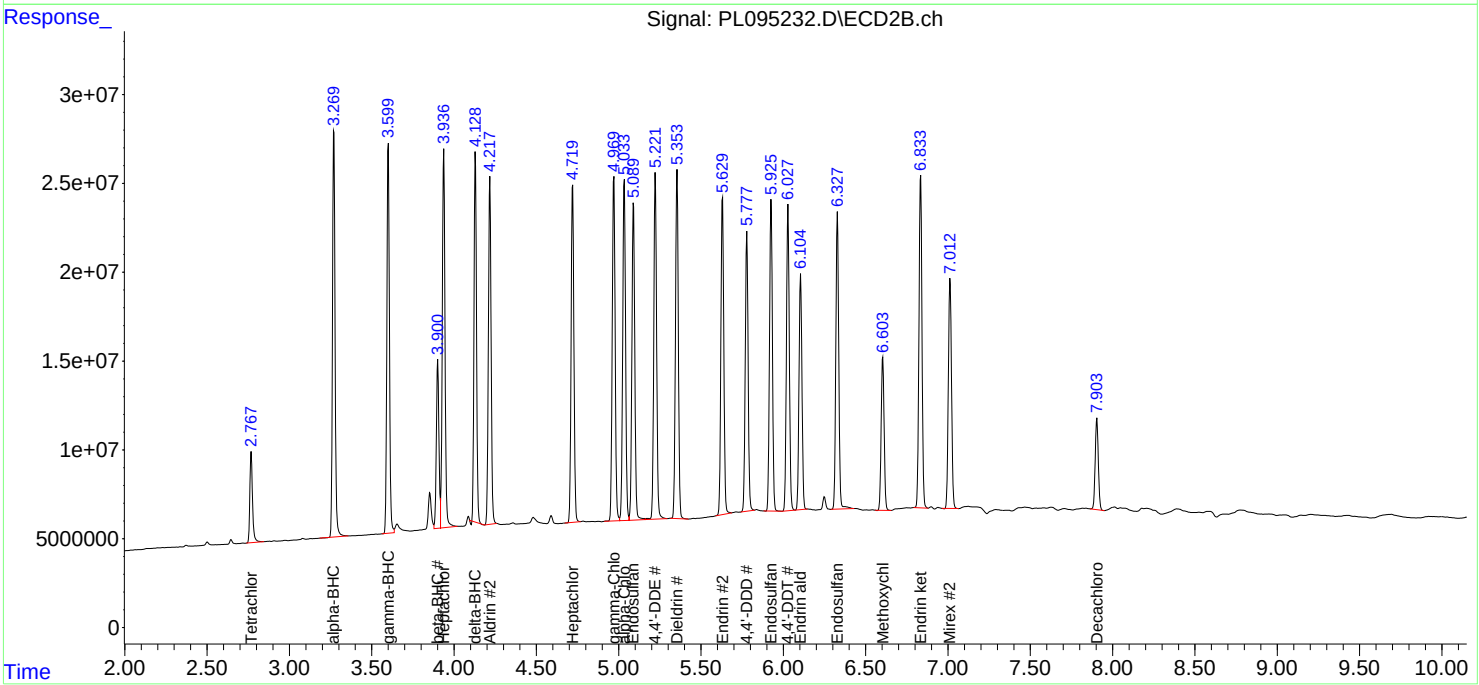
Instrument :
ECD_L
ClientSampleId :
PB167535BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/16/2025
Supervised By :mohammad ahmed 04/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 14:13:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL041425.M
Quant Title : GC Extractables
QLast Update : Mon Apr 14 19:12:49 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 18:58
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.534	2.767	35271484	49889239	12.460m	13.977m
28)	SA	Decachlor...	9.047	7.899	36593191	51673290	17.364m	12.792 #
		Target Compounds						
2)	A	alpha-BHC	3.991	3.270	129.0E6	190.1E6	31.058	35.258
3)	MA	gamma-BHC...	4.323	3.600	115.4E6	157.4E6	28.910	30.618
4)	MA	Heptachlor	4.910	3.936	108.6E6	151.9E6	27.983	28.822m
5)	MB	Aldrin	5.250	4.216	90495317	141.3E6	24.510m	28.967
6)	B	beta-BHC	4.521	3.900	51440315	72440343	27.878m	32.612
7)	B	delta-BHC	4.768	4.128	168.5E6	135.9E6	43.275	27.169 #
8)	B	Heptachlo...	5.677	4.719	99815318	131.5E6	29.838m	28.718
9)	A	Endosulfan I	6.065	5.086	79917296	140.8E6	26.030	32.080m
10)	B	gamma-Chl...	5.935	4.966	95166907	143.6E6	28.245	29.751m
11)	B	alpha-Chl...	6.013	5.032	85221921	133.2E6	25.850	27.911
12)	B	4,4'-DDE	6.187	5.220	90836186	129.2E6	30.875	27.791
13)	MA	Dieldrin	6.340	5.350	85205921	168.6E6	26.642	34.752m#
14)	MA	Endrin	6.569	5.627	92897199	121.1E6	33.512	27.751
15)	B	Endosulfa...	6.790	5.920	77189040	121.0E6	28.433	27.966m
16)	A	4,4'-DDD	6.704	5.773	72140671	100.7E6	33.305m	28.006m
17)	MA	4,4'-DDT	7.018	6.023	81604006	126.5E6	34.308m	31.361m
18)	B	Endrin al...	6.920	6.100	55633651	87237958	26.354	25.922m
19)	B	Endosulfa...	7.153	6.324	71485710	127.5E6	29.394m	31.292
20)	A	Methoxychlor	7.496	6.598	40558512	64309612	33.881	30.319m
21)	B	Endrin ke...	7.638	6.829	96133198	140.1E6	36.369m	29.345
22)		Mirex	8.111	7.009	70200258	108.8E6	33.974	28.677

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PL095145.D**

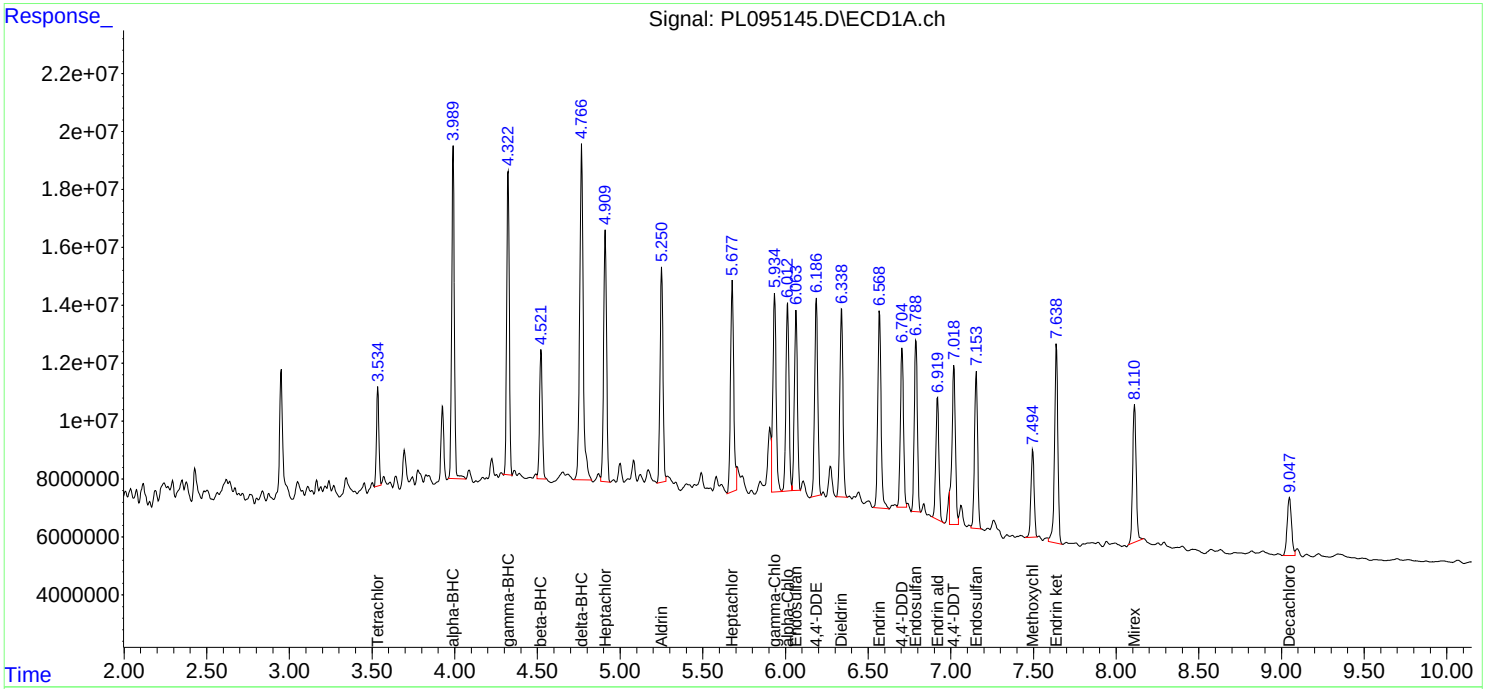
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 18:58
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

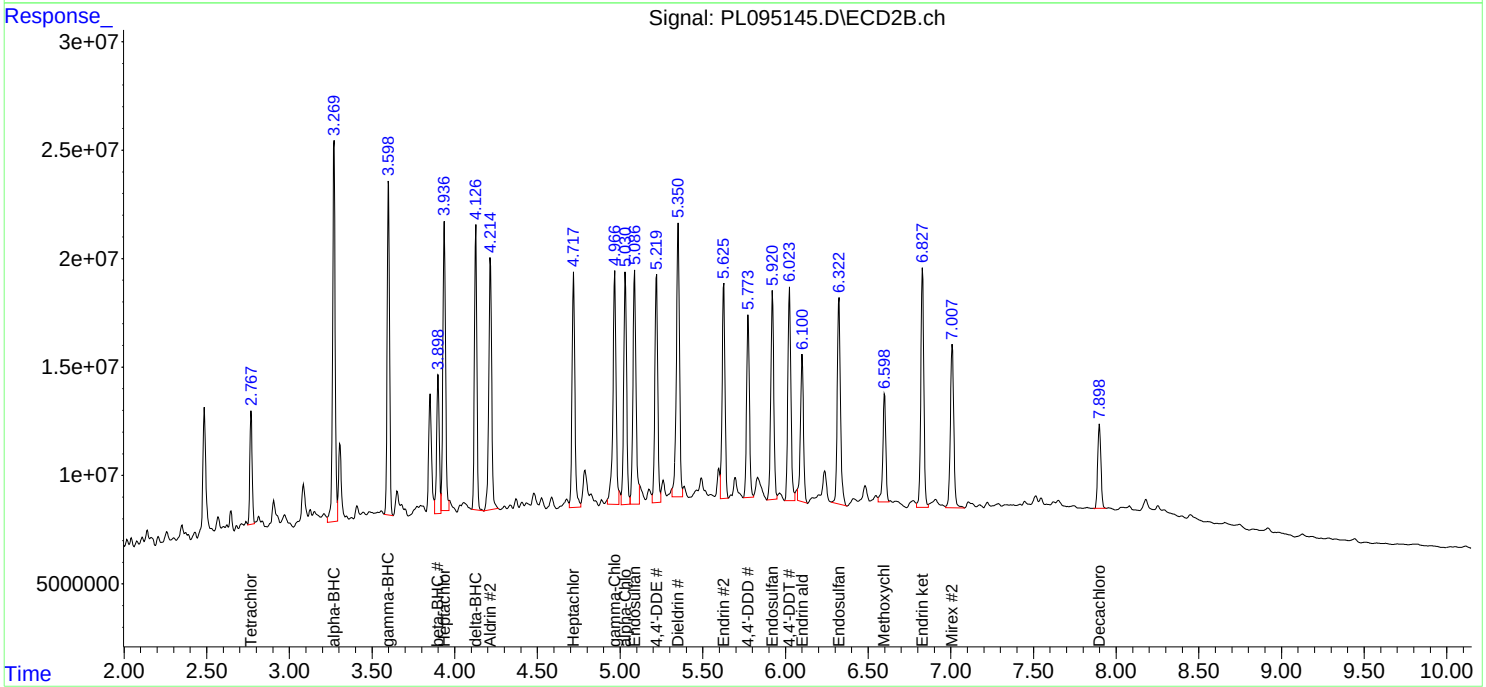
Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095146.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 19:12
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.533	2.767	34768099	48958685	12.283m	13.717m
28)	SA	Decachlor...	9.047	7.899	34559263	52039313	16.399m	12.883
		Target Compounds						
2)	A	alpha-BHC	3.990	3.270	124.0E6	190.3E6	29.872	35.292
3)	MA	gamma-BHC...	4.323	3.599	113.9E6	159.1E6	28.547	30.965
4)	MA	Heptachlor	4.911	3.935	106.8E6	144.4E6	27.524	27.409m
5)	MB	Aldrin	5.250	4.215	88681356	138.4E6	24.018m	28.391
6)	B	beta-BHC	4.521	3.898	49756043	69621157	26.965m	31.343m
7)	B	delta-BHC	4.767	4.127	165.0E6	133.5E6	42.381	26.681 #
8)	B	Heptachlo...	5.677	4.718	95976173	129.9E6	28.691m	28.365
9)	A	Endosulfan I	6.064	5.087	78486962	150.0E6	25.564	34.174 #
10)	B	gamma-Chl...	5.935	4.968	93639414	149.5E6	27.791	30.969
11)	B	alpha-Chl...	6.013	5.031	83530901	131.1E6	25.337	27.471
12)	B	4,4'-DDE	6.187	5.220	89307641	128.3E6	30.355	27.600
13)	MA	Dieldrin	6.339	5.350	83761915	171.2E6	26.191	35.289m#
14)	MA	Endrin	6.569	5.627	90415762	119.9E6	32.617	27.469
15)	B	Endosulfa...	6.789	5.920	75795525	120.4E6	27.920	27.810m
16)	A	4,4'-DDD	6.706	5.775	71410249	98205183	32.968	27.310
17)	MA	4,4'-DDT	7.018	6.023	72441272	123.1E6	30.456m	30.518m
18)	B	Endrin al...	6.919	6.100	53564851	86109391	25.374	25.587m
19)	B	Endosulfa...	7.154	6.323	70446115	128.2E6	28.966	31.484
20)	A	Methoxychlor	7.496	6.598	40704355	67064220	34.003	31.618m
21)	B	Endrin ke...	7.639	6.829	93851380	139.0E6	35.506	29.122
22)		Mirex	8.110	7.008	71468532	107.1E6	34.588m	28.220

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

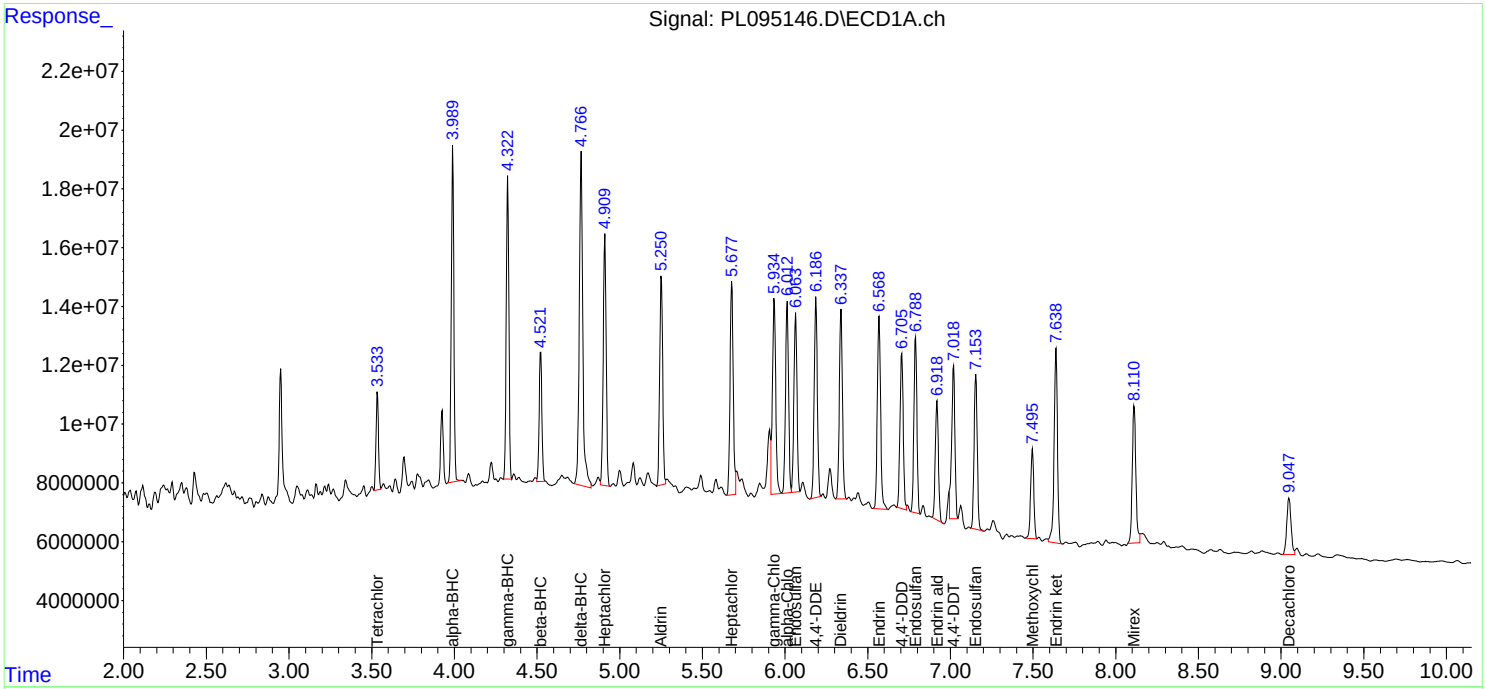
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095146.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 19:12
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

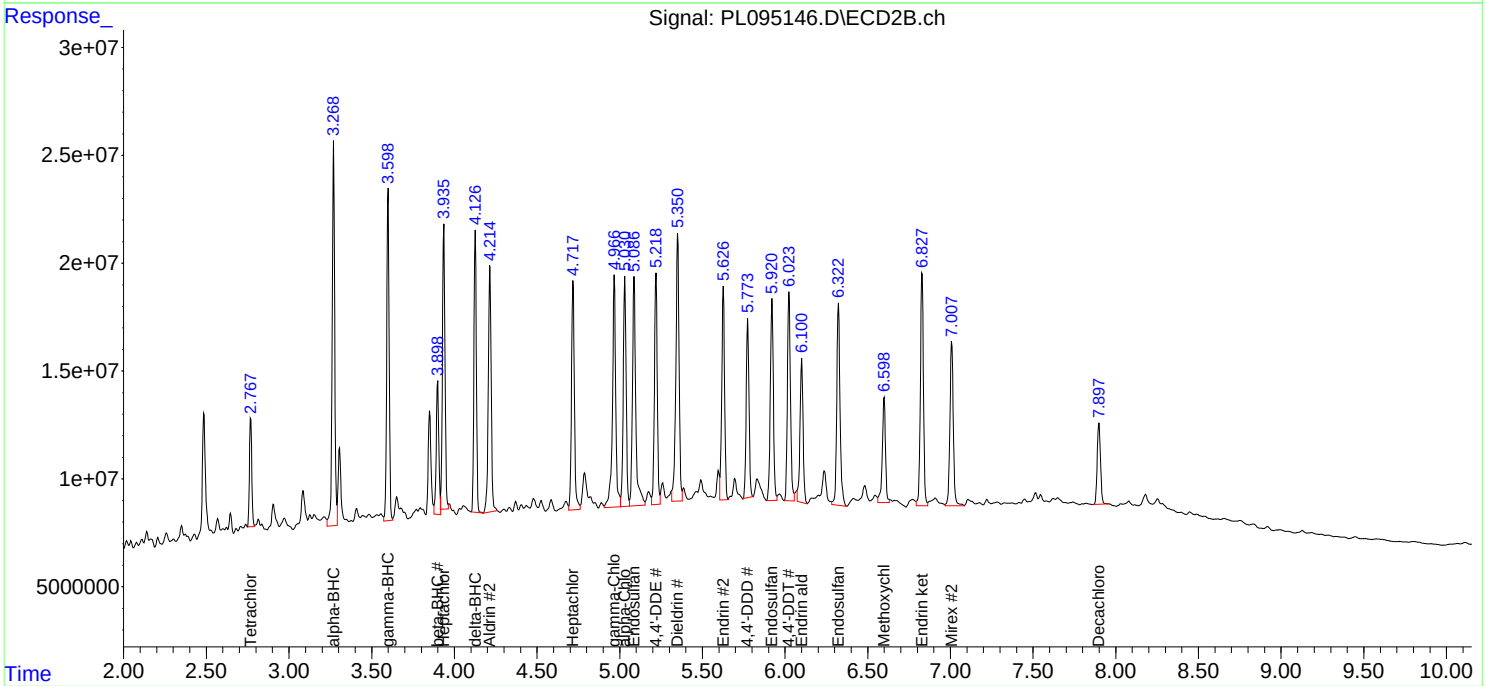
Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094567.D	4,4"-DDD	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	4,4"-DDD #2	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	Endrin aldehyde	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	Endrin ketone	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	Endrin ketone #2	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
RESCHK	PL094568.D	gamma-Chlordane #2	Abdul	3/12/2025 12:46:05 PM	Ankita	3/12/2025 2:34:09	Peak Integrated by Software
PSTDICC100	PL094569.D	Methoxychlor	Abdul	3/12/2025 12:46:08 PM	Ankita	3/12/2025 2:34:10	Peak Integrated by Software
PSTDICC100	PL094569.D	Mirex	Abdul	3/12/2025 12:46:08 PM	Ankita	3/12/2025 2:34:10	Peak Integrated by Software
PSTDICC075	PL094570.D	Mirex	Abdul	3/12/2025 12:46:12 PM	Ankita	3/12/2025 2:34:12	Peak Integrated by Software
PSTDICC005	PL094573.D	4,4"-DDE #2	Abdul	3/12/2025 12:46:16 PM	Ankita	3/12/2025 2:34:14	Peak Integrated by Software
PSTDICC005	PL094573.D	Dieldrin #2	Abdul	3/12/2025 12:46:16 PM	Ankita	3/12/2025 2:34:14	Peak Integrated by Software
PSTDICC005	PL094573.D	Endrin ketone #2	Abdul	3/12/2025 12:46:16 PM	Ankita	3/12/2025 2:34:14	Peak Integrated by Software
PEM	PL094588.D	4,4"-DDD	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094588.D	4,4"-DDE	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	4,4"-DDE #2	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Endrin	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Endrin aldehyde	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Endrin ketone	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Methoxychlor #2	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PSTDCCC050	PL094589.D	4,4"-DDE #2	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	Dieldrin #2	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	Endrin	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	Endrin #2	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094598.D	4,4"-DDE	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL094598.D	Endrin	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software
PSTDCCC050	PL094598.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software
PSTDCCC050	PL094598.D	Heptachlor epoxide #2	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software
PEM	PL094606.D	4,4"-DDD	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	4,4"-DDE	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	4,4"-DDE #2	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin #2	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin aldehyde	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin ketone #2	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PSTDCCC050	PL094607.D	4,4"-DDE #2	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software
PSTDCCC050	PL094607.D	Dieldrin #2	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software
PSTDCCC050	PL094607.D	Endrin	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL094607.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software
PSTDCCC050	PL094618.D	4,4"-DDD	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	4,4"-DDE #2	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	Dieldrin #2	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	Endosulfan I #2	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	Endrin	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095128.D	4,4"-DDD	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	4,4"-DDE	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	4,4"-DDE #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin aldehyde	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin ketone #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Methoxychlor #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	4,4"-DDE #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Dieldrin #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endosulfan I #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endosulfan II #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endrin	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL095129.D	Endrin #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endrin ketone #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Heptachlor epoxide #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	4,4"-DDE #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Dieldrin #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Endosulfan II #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Endrin	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Endrin #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDD	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDD #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDT	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDT #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Aldrin	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MS	PL095145.D	beta-BHC	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Decachlorobiphenyl	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Dieldrin #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endosulfan I #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endosulfan II #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endosulfan Sulfate	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endrin aldehyde #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endrin ketone	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	gamma-Chlordane #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Heptachlor #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Heptachlor epoxide	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Methoxychlor #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MS	PL095145.D	Tetrachloro-m-xylene #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	4,4"-DDT	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	4,4"-DDT #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Aldrin	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	beta-BHC	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	beta-BHC #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Decachlorobiphenyl	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Dieldrin #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Endosulfan II #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Endrin aldehyde #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Heptachlor #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Heptachlor epoxide	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Methoxychlor #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MSD	PL095146.D	Mirex	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Tetrachloro-m-xylene #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	4,4"-DDE	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	4,4"-DDE #2	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	Endrin	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	Endrin aldehyde	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	Endrin ketone #2	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	4,4"-DDE #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Dieldrin #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Endosulfan II #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Endrin ketone #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Methoxychlor	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL095149.D	Mirex #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1746-02	PL095160.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:03:29 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1746-04	PL095161.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:03:34 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1746-04	PL095161.D	Tetrachloro-m-xylene #2	Abdul	4/10/2025 9:03:34 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	4,4"-DDE #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	alpha-Chlordane #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Dieldrin #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endosulfan I #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endosulfan II #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endrin	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endrin ketone #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	gamma-Chlordane #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Mirex #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL041425	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095203.D	4,4"-DDD	Abdul	4/15/2025 7:50:36 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PEM	PL095203.D	Methoxychlor #2	Abdul	4/15/2025 7:50:36 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PSTDICC100	PL095205.D	Endrin ketone #2	Abdul	4/15/2025 7:50:43 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PSTDICC005	PL095209.D	gamma-Chlordane	Abdul	4/15/2025 7:50:48 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PSTDICC005	PL095209.D	Methoxychlor #2	Abdul	4/15/2025 7:50:48 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	PI041525	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095225.D	4,4"-DDD	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	4,4"-DDD #2	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Endrin	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Endrin aldehyde	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Endrin ketone #2	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Methoxychlor #2	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095226.D	Endrin	Abdul	4/16/2025 8:38:56 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095226.D	Endrin ketone #2	Abdul	4/16/2025 8:38:56 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PB167535BS	PL095232.D	delta-BHC	Abdul	4/16/2025 8:39:15 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095236.D	alpha-BHC #2	Abdul	4/16/2025 8:39:30 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	4,4"-DDD	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	4,4"-DDE	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	4,4"-DDE #2	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software

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Manual Integration Report

Sequence:	PI041525	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095251.D	Endrin	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	Endrin aldehyde	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095252.D	delta-BHC	Abdul	4/16/2025 8:40:34 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095252.D	Endrin	Abdul	4/16/2025 8:40:34 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL094565.D	11 Mar 2025 09:41	AR\AJ	Ok
2	I.BLK	PL094566.D	11 Mar 2025 09:55	AR\AJ	Ok
3	PEM	PL094567.D	11 Mar 2025 10:08	AR\AJ	Ok,M
4	RESCHK	PL094568.D	11 Mar 2025 10:22	AR\AJ	Ok,M
5	PSTDICC100	PL094569.D	11 Mar 2025 10:35	AR\AJ	Ok,M
6	PSTDICC075	PL094570.D	11 Mar 2025 10:49	AR\AJ	Ok,M
7	PSTDICC050	PL094571.D	11 Mar 2025 11:02	AR\AJ	Ok
8	PSTDICC025	PL094572.D	11 Mar 2025 11:16	AR\AJ	Ok
9	PSTDICC005	PL094573.D	11 Mar 2025 11:29	AR\AJ	Ok,M
10	PCHLORICC1000	PL094574.D	11 Mar 2025 11:43	AR\AJ	Ok
11	PCHLORICC750	PL094575.D	11 Mar 2025 11:57	AR\AJ	Ok
12	PCHLORICC500	PL094576.D	11 Mar 2025 12:10	AR\AJ	Ok
13	PCHLORICC250	PL094577.D	11 Mar 2025 12:24	AR\AJ	Ok
14	PCHLORICC050	PL094578.D	11 Mar 2025 12:37	AR\AJ	Ok,M
15	PTOXICC1000	PL094579.D	11 Mar 2025 12:51	AR\AJ	Ok
16	PTOXICC750	PL094580.D	11 Mar 2025 13:04	AR\AJ	Ok
17	PTOXICC500	PL094581.D	11 Mar 2025 13:18	AR\AJ	Ok
18	PTOXICC250	PL094582.D	11 Mar 2025 13:31	AR\AJ	Ok,M
19	PTOXICC100	PL094583.D	11 Mar 2025 13:45	AR\AJ	Ok,M
20	PSTDICV050	PL094584.D	11 Mar 2025 13:59	AR\AJ	Ok
21	PCHLORICV500	PL094585.D	11 Mar 2025 14:26	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL094586.D	11 Mar 2025 14:53	AR\AJ	Ok
23	I.BLK	PL094587.D	11 Mar 2025 17:16	AR\AJ	Ok
24	PEM	PL094588.D	11 Mar 2025 17:30	AR\AJ	Ok,M
25	PSTDCCC050	PL094589.D	11 Mar 2025 17:43	AR\AJ	Ok,M
26	PB167076BL	PL094590.D	11 Mar 2025 17:57	AR\AJ	Ok
27	PB167076BS	PL094591.D	11 Mar 2025 18:11	AR\AJ	Ok,M
28	PB167076BSD	PL094592.D	11 Mar 2025 18:44	AR\AJ	Ok,M
29	Q1494-01	PL094593.D	11 Mar 2025 18:57	AR\AJ	Not Ok
30	Q1502-11	PL094594.D	11 Mar 2025 19:11	AR\AJ	Not Ok
31	Q1502-09	PL094595.D	11 Mar 2025 19:25	AR\AJ	Dilution
32	Q1502-13	PL094596.D	11 Mar 2025 19:39	AR\AJ	Not Ok
33	I.BLK	PL094597.D	11 Mar 2025 19:52	AR\AJ	Ok
34	PSTDCCC050	PL094598.D	11 Mar 2025 20:06	AR\AJ	Ok,M
35	Q1539-01	PL094599.D	11 Mar 2025 20:33	AR\AJ	Ok,M
36	Q1539-02	PL094600.D	11 Mar 2025 20:47	AR\AJ	Ok,M
37	PB167086BL	PL094601.D	11 Mar 2025 21:01	AR\AJ	Ok
38	PB167086BS	PL094602.D	11 Mar 2025 21:14	AR\AJ	Not Ok
39	PB167087BL	PL094603.D	11 Mar 2025 21:28	AR\AJ	Ok
40	PB167087BS	PL094604.D	11 Mar 2025 21:42	AR\AJ	Not Ok
41	I.BLK	PL094605.D	11 Mar 2025 21:55	AR\AJ	Ok
42	PEM	PL094606.D	11 Mar 2025 22:09	AR\AJ	Ok,M
43	PSTDCCC050	PL094607.D	11 Mar 2025 22:23	AR\AJ	Ok,M
44	PB167077BL	PL094608.D	11 Mar 2025 22:50	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	PB167077BS	PL094609.D	11 Mar 2025 23:04	AR\AJ	Not Ok
46	Q1534-01	PL094610.D	11 Mar 2025 23:17	AR\AJ	Ok,M
47	Q1534-07	PL094611.D	11 Mar 2025 23:31	AR\AJ	Ok,M
48	Q1534-07MS	PL094612.D	11 Mar 2025 23:44	AR\AJ	Ok,M
49	Q1534-07MSD	PL094613.D	11 Mar 2025 23:58	AR\AJ	Ok,M
50	Q1534-13	PL094614.D	12 Mar 2025 00:11	AR\AJ	Dilution
51	Q1534-19	PL094615.D	12 Mar 2025 00:25	AR\AJ	Dilution
52	Q1535-01	PL094616.D	12 Mar 2025 00:39	AR\AJ	Ok,M
53	I.BLK	PL094617.D	12 Mar 2025 00:53	AR\AJ	Ok
54	PSTDCCC050	PL094618.D	12 Mar 2025 01:06	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095126.D	09 Apr 2025 08:16	AR\AJ	Ok
2	I.BLK	PL095127.D	09 Apr 2025 08:29	AR\AJ	Ok
3	PEM	PL095128.D	09 Apr 2025 08:43	AR\AJ	Ok,M
4	PSTDCCC050	PL095129.D	09 Apr 2025 08:57	AR\AJ	Ok,M
5	PB167473BS	PL095130.D	09 Apr 2025 11:03	AR\AJ	Ok,M
6	PB167523BL	PL095131.D	09 Apr 2025 12:28	AR\AJ	Ok
7	PB167523BS	PL095132.D	09 Apr 2025 14:50	AR\AJ	Ok,M
8	Q1748-01	PL095133.D	09 Apr 2025 15:41	AR\AJ	Ok,M
9	Q1748-05	PL095134.D	09 Apr 2025 15:54	AR\AJ	Ok,M
10	Q1754-01	PL095135.D	09 Apr 2025 16:08	AR\AJ	Ok,M
11	Q1754-03	PL095136.D	09 Apr 2025 16:22	AR\AJ	Ok,M
12	I.BLK	PL095137.D	09 Apr 2025 16:36	AR\AJ	Ok
13	PSTDCCC050	PL095138.D	09 Apr 2025 16:49	AR\AJ	Ok,M
14	Q1749-01	PL095139.D	09 Apr 2025 17:36	AR\AJ	Ok,M
15	Q1752-01	PL095140.D	09 Apr 2025 17:50	AR\AJ	Ok,M
16	Q1752-03	PL095141.D	09 Apr 2025 18:03	AR\AJ	Ok,M
17	Q1752-03MS	PL095142.D	09 Apr 2025 18:17	AR\AJ	Ok,M
18	Q1752-03MSD	PL095143.D	09 Apr 2025 18:31	AR\AJ	Ok,M
19	Q1739-02	PL095144.D	09 Apr 2025 18:45	AR\AJ	Ok,M
20	Q1739-02MS	PL095145.D	09 Apr 2025 18:58	AR\AJ	Ok,M
21	Q1739-02MSD	PL095146.D	09 Apr 2025 19:12	AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	PL095147.D	09 Apr 2025 19:26	AR\AJ	Ok
23	PEM	PL095148.D	09 Apr 2025 19:39	AR\AJ	Ok,M
24	PSTDCCC050	PL095149.D	09 Apr 2025 20:20	AR\AJ	Ok,M
25	Q1752-05	PL095150.D	09 Apr 2025 20:34	AR\AJ	Ok,M
26	Q1752-07	PL095151.D	09 Apr 2025 20:48	AR\AJ	Ok,M
27	Q1753-01	PL095152.D	09 Apr 2025 21:02	AR\AJ	Ok
28	Q1753-05	PL095153.D	09 Apr 2025 21:15	AR\AJ	Ok
29	PB167535BL	PL095154.D	09 Apr 2025 21:29	AR\AJ	Ok
30	PB167535BS	PL095155.D	09 Apr 2025 21:43	AR\AJ	Not Ok
31	PB167488TB	PL095156.D	09 Apr 2025 21:56	AR\AJ	Ok
32	PB167517TB	PL095157.D	09 Apr 2025 22:10	AR\AJ	Ok
33	Q1744-02	PL095158.D	09 Apr 2025 22:24	AR\AJ	Ok,M
34	Q1744-04	PL095159.D	09 Apr 2025 22:38	AR\AJ	Ok,M
35	Q1746-02	PL095160.D	09 Apr 2025 22:51	AR\AJ	Ok,M
36	Q1746-04	PL095161.D	09 Apr 2025 23:05	AR\AJ	Ok,M
37	I.BLK	PL095162.D	09 Apr 2025 23:19	AR\AJ	Ok
38	PSTDCCC050	PL095163.D	09 Apr 2025 23:33	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095201.D	14 Apr 2025 14:12	AR\AJ	Ok
2	I.BLK	PL095202.D	14 Apr 2025 14:26	AR\AJ	Ok
3	PEM	PL095203.D	14 Apr 2025 14:40	AR\AJ	Ok,M
4	RESCHK	PL095204.D	14 Apr 2025 14:54	AR\AJ	Ok
5	PSTDICC100	PL095205.D	14 Apr 2025 15:07	AR\AJ	Ok,M
6	PSTDICC075	PL095206.D	14 Apr 2025 15:21	AR\AJ	Ok
7	PSTDICC050	PL095207.D	14 Apr 2025 15:35	AR\AJ	Ok
8	PSTDICC025	PL095208.D	14 Apr 2025 16:02	AR\AJ	Ok
9	PSTDICC005	PL095209.D	14 Apr 2025 16:15	AR\AJ	Ok,M
10	PCHLORICC1000	PL095210.D	14 Apr 2025 16:29	AR\AJ	Ok
11	PCHLORICC750	PL095211.D	14 Apr 2025 16:43	AR\AJ	Ok
12	PCHLORICC500	PL095212.D	14 Apr 2025 16:56	AR\AJ	Ok
13	PCHLORICC250	PL095213.D	14 Apr 2025 17:10	AR\AJ	Ok
14	PCHLORICC050	PL095214.D	14 Apr 2025 17:24	AR\AJ	Ok
15	PTOXICC1000	PL095215.D	14 Apr 2025 17:38	AR\AJ	Ok
16	PTOXICC750	PL095216.D	14 Apr 2025 17:51	AR\AJ	Ok
17	PTOXICC500	PL095217.D	14 Apr 2025 18:05	AR\AJ	Ok
18	PTOXICC250	PL095218.D	14 Apr 2025 18:19	AR\AJ	Ok,M
19	PTOXICC100	PL095219.D	14 Apr 2025 18:32	AR\AJ	Ok
20	PSTDICV050	PL095220.D	14 Apr 2025 18:46	AR\AJ	Ok
21	PCHLORICV500	PL095221.D	14 Apr 2025 19:00	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL095222.D	14 Apr 2025 19:13	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095223.D	15 Apr 2025 10:24	AR\AJ	Ok
2	I.BLK	PL095224.D	15 Apr 2025 10:37	AR\AJ	Ok
3	PEM	PL095225.D	15 Apr 2025 10:51	AR\AJ	Ok,M
4	PSTDCCC050	PL095226.D	15 Apr 2025 11:21	AR\AJ	Ok,M
5	Q1784-01	PL095227.D	15 Apr 2025 11:35	AR\AJ	Ok,M
6	Q1783-01	PL095228.D	15 Apr 2025 11:48	AR\AJ	Ok,M
7	Q1792-01	PL095229.D	15 Apr 2025 12:02	AR\AJ	Ok,M
8	PB167576BL	PL095230.D	15 Apr 2025 12:16	AR\AJ	Ok
9	PB167576BS	PL095231.D	15 Apr 2025 12:29	AR\AJ	Not Ok
10	PB167535BS	PL095232.D	15 Apr 2025 13:05	AR\AJ	Ok,M
11	Q1785-01	PL095233.D	15 Apr 2025 13:30	AR\AJ	Ok,M
12	Q1785-03	PL095234.D	15 Apr 2025 13:43	AR\AJ	Ok,M
13	I.BLK	PL095235.D	15 Apr 2025 13:57	AR\AJ	Ok
14	PSTDCCC050	PL095236.D	15 Apr 2025 15:08	AR\AJ	Ok,M
15	PB167576BS	PL095237.D	15 Apr 2025 15:22	AR\AJ	Ok,M
16	Q1787-09	PL095238.D	15 Apr 2025 15:40	AR\AJ	Ok,M
17	Q1787-09MS	PL095239.D	15 Apr 2025 15:53	AR\AJ	Ok,M
18	Q1787-09MSD	PL095240.D	15 Apr 2025 16:07	AR\AJ	Ok,M
19	Q1788-01	PL095241.D	15 Apr 2025 16:21	AR\AJ	Ok,M
20	PB167596BL	PL095242.D	15 Apr 2025 16:35	AR\AJ	Ok
21	PB167596BS	PL095243.D	15 Apr 2025 16:48	AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1806-01	PL095244.D	15 Apr 2025 17:02	AR\AJ	Ok,M
23	Q1807-01	PL095245.D	15 Apr 2025 17:16	AR\AJ	Ok,M
24	Q1808-01	PL095246.D	15 Apr 2025 17:30	AR\AJ	Ok,M
25	Q1808-01MS	PL095247.D	15 Apr 2025 17:43	AR\AJ	Ok,M
26	Q1808-01MSD	PL095248.D	15 Apr 2025 17:57	AR\AJ	Ok,M
27	Q1808-03	PL095249.D	15 Apr 2025 18:10	AR\AJ	Ok,M
28	I.BLK	PL095250.D	15 Apr 2025 18:38	AR\AJ	Ok
29	PEM	PL095251.D	15 Apr 2025 18:52	AR\AJ	Ok,M
30	PSTDCCC050	PL095252.D	15 Apr 2025 19:05	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL094565.D	11 Mar 2025 09:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL094566.D	11 Mar 2025 09:55		AR\AJ	Ok
3	PEM	PEM	PL094567.D	11 Mar 2025 10:08		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL094568.D	11 Mar 2025 10:22		AR\AJ	Ok,M
5	PSTDICC100	PSTDICC100	PL094569.D	11 Mar 2025 10:35		AR\AJ	Ok,M
6	PSTDICC075	PSTDICC075	PL094570.D	11 Mar 2025 10:49		AR\AJ	Ok,M
7	PSTDICC050	PSTDICC050	PL094571.D	11 Mar 2025 11:02		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL094572.D	11 Mar 2025 11:16		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL094573.D	11 Mar 2025 11:29		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL094574.D	11 Mar 2025 11:43		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL094575.D	11 Mar 2025 11:57		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL094576.D	11 Mar 2025 12:10		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL094577.D	11 Mar 2025 12:24		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL094578.D	11 Mar 2025 12:37		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PL094579.D	11 Mar 2025 12:51		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL094580.D	11 Mar 2025 13:04		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL094581.D	11 Mar 2025 13:18		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL094582.D	11 Mar 2025 13:31		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL094583.D	11 Mar 2025 13:45		AR\AJ	Ok,M
20	PSTDICV050	ICVPL031125	PL094584.D	11 Mar 2025 13:59		AR\AJ	Ok
21	PCHLORICV500	ICVPL031125CHLOR	PL094585.D	11 Mar 2025 14:26		AR\AJ	Ok
22	PTOXICV500	ICVPL031125TOX	PL094586.D	11 Mar 2025 14:53		AR\AJ	Ok
23	I.BLK	I.BLK	PL094587.D	11 Mar 2025 17:16		AR\AJ	Ok
24	PEM	PEM	PL094588.D	11 Mar 2025 17:30		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL094589.D	11 Mar 2025 17:43		AR\AJ	Ok,M
26	PB167076BL	PB167076BL	PL094590.D	11 Mar 2025 17:57		AR\AJ	Ok
27	PB167076BS	PB167076BS	PL094591.D	11 Mar 2025 18:11		AR\AJ	Ok,M
28	PB167076BSD	PB167076BSD	PL094592.D	11 Mar 2025 18:44		AR\AJ	Ok,M
29	Q1494-01	PURGE-WATER	PL094593.D	11 Mar 2025 18:57	F Flag in TCMX for both column	AR\AJ	Not Ok
30	Q1502-11	PT-CHLR-WP	PL094594.D	11 Mar 2025 19:11	Chlordane CCAL missing , TCMX high in 2nd column	AR\AJ	Not Ok
31	Q1502-09	PT-PEST-WP	PL094595.D	11 Mar 2025 19:25	TCMX high in 1st column , Need dilution	AR\AJ	Dilution
32	Q1502-13	PT-TXP-WP	PL094596.D	11 Mar 2025 19:39	TOX CCAL missing , need dilution	AR\AJ	Not Ok
33	I.BLK	I.BLK	PL094597.D	11 Mar 2025 19:52		AR\AJ	Ok
34	PSTDCCC050	PSTDCCC050	PL094598.D	11 Mar 2025 20:06		AR\AJ	Ok,M
35	Q1539-01	TAPIAL3-MW03D-0310	PL094599.D	11 Mar 2025 20:33		AR\AJ	Ok,M
36	Q1539-02	TAPFTA-MW01I-03102	PL094600.D	11 Mar 2025 20:47		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	PB167086BL	PB167086BL	PL094601.D	11 Mar 2025 21:01		AR\AJ	Ok
38	PB167086BS	PB167086BS	PL094602.D	11 Mar 2025 21:14	Chlordane CCAL missing	AR\AJ	Not Ok
39	PB167087BL	PB167087BL	PL094603.D	11 Mar 2025 21:28		AR\AJ	Ok
40	PB167087BS	PB167087BS	PL094604.D	11 Mar 2025 21:42	TOX CCAL missing	AR\AJ	Not Ok
41	I.BLK	I.BLK	PL094605.D	11 Mar 2025 21:55		AR\AJ	Ok
42	PEM	PEM	PL094606.D	11 Mar 2025 22:09		AR\AJ	Ok,M
43	PSTDCCC050	PSTDCCC050	PL094607.D	11 Mar 2025 22:23		AR\AJ	Ok,M
44	PB167077BL	PB167077BL	PL094608.D	11 Mar 2025 22:50		AR\AJ	Ok
45	PB167077BS	PB167077BS	PL094609.D	11 Mar 2025 23:04	Comp#2 recovery fail	AR\AJ	Not Ok
46	Q1534-01	OR-636-COMP-16	PL094610.D	11 Mar 2025 23:17		AR\AJ	Ok,M
47	Q1534-07	OR-636-COMP-17	PL094611.D	11 Mar 2025 23:31		AR\AJ	Ok,M
48	Q1534-07MS	OR-636-COMP-17MS	PL094612.D	11 Mar 2025 23:44		AR\AJ	Ok,M
49	Q1534-07MSD	OR-636-COMP-17MSD	PL094613.D	11 Mar 2025 23:58		AR\AJ	Ok,M
50	Q1534-13	OR-636-COMP-18	PL094614.D	12 Mar 2025 00:11	need dilution	AR\AJ	Dilution
51	Q1534-19	OR-636-COMP-19	PL094615.D	12 Mar 2025 00:25	need dilution	AR\AJ	Dilution
52	Q1535-01	SU-03-03102025	PL094616.D	12 Mar 2025 00:39		AR\AJ	Ok,M
53	I.BLK	I.BLK	PL094617.D	12 Mar 2025 00:53		AR\AJ	Ok
54	PSTDCCC050	PSTDCCC050	PL094618.D	12 Mar 2025 01:06		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095126.D	09 Apr 2025 08:16		AR\AJ	Ok
2	I.BLK	I.BLK	PL095127.D	09 Apr 2025 08:29		AR\AJ	Ok
3	PEM	PEM	PL095128.D	09 Apr 2025 08:43		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL095129.D	09 Apr 2025 08:57		AR\AJ	Ok,M
5	PB167473BS	PB167473BS	PL095130.D	09 Apr 2025 11:03		AR\AJ	Ok,M
6	PB167523BL	PB167523BL	PL095131.D	09 Apr 2025 12:28		AR\AJ	Ok
7	PB167523BS	PB167523BS	PL095132.D	09 Apr 2025 14:50		AR\AJ	Ok,M
8	Q1748-01	IB-1.5-WC	PL095133.D	09 Apr 2025 15:41		AR\AJ	Ok,M
9	Q1748-05	IB-2A-WC	PL095134.D	09 Apr 2025 15:54		AR\AJ	Ok,M
10	Q1754-01	TP-1	PL095135.D	09 Apr 2025 16:08		AR\AJ	Ok,M
11	Q1754-03	TP-1-CONCRETE	PL095136.D	09 Apr 2025 16:22		AR\AJ	Ok,M
12	I.BLK	I.BLK	PL095137.D	09 Apr 2025 16:36		AR\AJ	Ok
13	PSTDCCC050	PSTDCCC050	PL095138.D	09 Apr 2025 16:49		AR\AJ	Ok,M
14	Q1749-01	TP-14	PL095139.D	09 Apr 2025 17:36		AR\AJ	Ok,M
15	Q1752-01	TP-1	PL095140.D	09 Apr 2025 17:50		AR\AJ	Ok,M
16	Q1752-03	TP-2	PL095141.D	09 Apr 2025 18:03		AR\AJ	Ok,M
17	Q1752-03MS	TP-2MS	PL095142.D	09 Apr 2025 18:17		AR\AJ	Ok,M
18	Q1752-03MSD	TP-2MSD	PL095143.D	09 Apr 2025 18:31		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1739-02	WC-LIQUID-20250404	PL095144.D	09 Apr 2025 18:45	TCMX low in both column, confirmed with MS/MSD	AR\AJ	Ok,M
20	Q1739-02MS	WC-LIQUID-20250404M	PL095145.D	09 Apr 2025 18:58	TCMX low in both column , Comp#8,14,20 recovery fail	AR\AJ	Ok,M
21	Q1739-02MSD	WC-LIQUID-20250404M	PL095146.D	09 Apr 2025 19:12	TCMX low in both column , Comp#8,14,20 recovery fail	AR\AJ	Ok,M
22	I.BLK	I.BLK	PL095147.D	09 Apr 2025 19:26		AR\AJ	Ok
23	PEM	PEM	PL095148.D	09 Apr 2025 19:39		AR\AJ	Ok,M
24	PSTDCCC050	PSTDCCC050	PL095149.D	09 Apr 2025 20:20		AR\AJ	Ok,M
25	Q1752-05	TP-4	PL095150.D	09 Apr 2025 20:34		AR\AJ	Ok,M
26	Q1752-07	TP-3	PL095151.D	09 Apr 2025 20:48		AR\AJ	Ok,M
27	Q1753-01	WC-1	PL095152.D	09 Apr 2025 21:02		AR\AJ	Ok
28	Q1753-05	WC-2	PL095153.D	09 Apr 2025 21:15		AR\AJ	Ok
29	PB167535BL	PB167535BL	PL095154.D	09 Apr 2025 21:29		AR\AJ	Ok
30	PB167535BS	PB167535BS	PL095155.D	09 Apr 2025 21:43	All surrogate fail , Comp#16,20 recovery fail	AR\AJ	Not Ok
31	PB167488TB	PB167488TB	PL095156.D	09 Apr 2025 21:56		AR\AJ	Ok
32	PB167517TB	PB167517TB	PL095157.D	09 Apr 2025 22:10		AR\AJ	Ok
33	Q1744-02	B-158-SB01	PL095158.D	09 Apr 2025 22:24		AR\AJ	Ok,M
34	Q1744-04	B-158-SB02	PL095159.D	09 Apr 2025 22:38		AR\AJ	Ok,M
35	Q1746-02	B-149-SB01	PL095160.D	09 Apr 2025 22:51		AR\AJ	Ok,M
36	Q1746-04	B-149-SB02	PL095161.D	09 Apr 2025 23:05		AR\AJ	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	I.BLK	I.BLK	PL095162.D	09 Apr 2025 23:19		AR\AJ	Ok
38	PSTDCCC050	PSTDCCC050	PL095163.D	09 Apr 2025 23:33		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095201.D	14 Apr 2025 14:12		AR\AJ	Ok
2	I.BLK	I.BLK	PL095202.D	14 Apr 2025 14:26		AR\AJ	Ok
3	PEM	PEM	PL095203.D	14 Apr 2025 14:40		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL095204.D	14 Apr 2025 14:54		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL095205.D	14 Apr 2025 15:07		AR\AJ	Ok,M
6	PSTDICC075	PSTDICC075	PL095206.D	14 Apr 2025 15:21		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL095207.D	14 Apr 2025 15:35		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL095208.D	14 Apr 2025 16:02		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL095209.D	14 Apr 2025 16:15		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL095210.D	14 Apr 2025 16:29		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL095211.D	14 Apr 2025 16:43		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL095212.D	14 Apr 2025 16:56		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL095213.D	14 Apr 2025 17:10		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL095214.D	14 Apr 2025 17:24		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL095215.D	14 Apr 2025 17:38		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL095216.D	14 Apr 2025 17:51		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL095217.D	14 Apr 2025 18:05		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL095218.D	14 Apr 2025 18:19		AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL095219.D	14 Apr 2025 18:32		AR\AJ	Ok
20	PSTDICV050	ICVPL041425	PL095220.D	14 Apr 2025 18:46		AR\AJ	Ok
21	PCHLORICV500	ICVPL041425CHLOR	PL095221.D	14 Apr 2025 19:00		AR\AJ	Ok
22	PTOXICV500	ICVPL041425TOX	PL095222.D	14 Apr 2025 19:13		AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095223.D	15 Apr 2025 10:24		AR\AJ	Ok
2	I.BLK	I.BLK	PL095224.D	15 Apr 2025 10:37		AR\AJ	Ok
3	PEM	PEM	PL095225.D	15 Apr 2025 10:51		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL095226.D	15 Apr 2025 11:21		AR\AJ	Ok,M
5	Q1784-01	OR-01-41125	PL095227.D	15 Apr 2025 11:35		AR\AJ	Ok,M
6	Q1783-01	SU-03-41125	PL095228.D	15 Apr 2025 11:48		AR\AJ	Ok,M
7	Q1792-01	TR-05-041125	PL095229.D	15 Apr 2025 12:02		AR\AJ	Ok,M
8	PB167576BL	PB167576BL	PL095230.D	15 Apr 2025 12:16		AR\AJ	Ok
9	PB167576BS	PB167576BS	PL095231.D	15 Apr 2025 12:29	F Flag coming	AR\AJ	Not Ok
10	PB167535BS	PB167535BS	PL095232.D	15 Apr 2025 13:05		AR\AJ	Ok,M
11	Q1785-01	HR-02-041125	PL095233.D	15 Apr 2025 13:30		AR\AJ	Ok,M
12	Q1785-03	HR-03-041125	PL095234.D	15 Apr 2025 13:43		AR\AJ	Ok,M
13	I.BLK	I.BLK	PL095235.D	15 Apr 2025 13:57		AR\AJ	Ok
14	PSTDCCC050	PSTDCCC050	PL095236.D	15 Apr 2025 15:08		AR\AJ	Ok,M
15	PB167576BS	PB167576BS	PL095237.D	15 Apr 2025 15:22		AR\AJ	Ok,M
16	Q1787-09	TP-1	PL095238.D	15 Apr 2025 15:40		AR\AJ	Ok,M
17	Q1787-09MS	TP-1MS	PL095239.D	15 Apr 2025 15:53		AR\AJ	Ok,M
18	Q1787-09MSD	TP-1MSD	PL095240.D	15 Apr 2025 16:07		AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1788-01	WC-1	PL095241.D	15 Apr 2025 16:21		AR\AJ	Ok,M
20	PB167596BL	PB167596BL	PL095242.D	15 Apr 2025 16:35		AR\AJ	Ok
21	PB167596BS	PB167596BS	PL095243.D	15 Apr 2025 16:48		AR\AJ	Ok,M
22	Q1806-01	OR-03-041425	PL095244.D	15 Apr 2025 17:02		AR\AJ	Ok,M
23	Q1807-01	OK-02-041425	PL095245.D	15 Apr 2025 17:16		AR\AJ	Ok,M
24	Q1808-01	OILY-SOIL-PILE	PL095246.D	15 Apr 2025 17:30		AR\AJ	Ok,M
25	Q1808-01MS	OILY-SOIL-PILEMS	PL095247.D	15 Apr 2025 17:43		AR\AJ	Ok,M
26	Q1808-01MSD	OILY-SOIL-PILEMSD	PL095248.D	15 Apr 2025 17:57		AR\AJ	Ok,M
27	Q1808-03	LAW-25-0060	PL095249.D	15 Apr 2025 18:10		AR\AJ	Ok,M
28	I.BLK	I.BLK	PL095250.D	15 Apr 2025 18:38		AR\AJ	Ok
29	PEM	PEM	PL095251.D	15 Apr 2025 18:52		AR\AJ	Ok,M
30	PSTDCCC050	PSTDCCC050	PL095252.D	15 Apr 2025 19:05		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JP

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JP 104 Room	9129. 154
	Preparation Group	Analysis Group

04/09/25

154 DJ

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167517

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1748 **WorkList ID :** 188805 **Department :** TCLP Extraction **Date :** 04-08-2025 12:17:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1743-04	TP-16	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311
Q1744-02	B-158-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1744-04	B-158-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1745-04	IB-6A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1745-12	IB-6.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1746-02	B-149-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1746-04	B-149-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311
Q1748-04	IB-1.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1748-08	IB-2A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1749-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/07/2025	1311
Q1752-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-04	TP-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-06	TP-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-08	TP-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-04	TP-1-CONCRETE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311

Date/Time 04/08/25 16:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/08/25 18:30

Raw Sample Received by:

Raw Sample Relinquished by:

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EXTRACTION LOGPAGE

PB167535

SOP ID:	M3510C,3580A-Extraction Pesticide-16				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/09/2025
Matrix :	Water			**Extraction Start Time :**	12:50
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	04/09/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	17:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24217
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2599
Hexane	N/A	E3877
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25	RP (Sat 7a5)	Y-P pest IP GD.
17:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167535

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 04/09/2025

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167488TB	PB167488TB	TCLP Pesticide	100	6	ritesh	rajesh	10			SEP-01
PB167517TB	PB167517TB	TCLP Pesticide	100	6	ritesh	rajesh	10			2
PB167535BL	PBLK535	TCLP Pesticide	1000	6	ritesh	rajesh	10			3
PB167535BS	PLCS535	TCLP Pesticide	1000	6	ritesh	rajesh	10			4
Q1739-02	WC-LIQUID-20250404	TCLP Pesticide	100	6	ritesh	rajesh	10	A		5
Q1739-02MS	WC-LIQUID-20250404MS	TCLP Pesticide	100	6	ritesh	rajesh	10	A		6
Q1739-02MSD	WC-LIQUID-20250404MSD	TCLP Pesticide	100	6	ritesh	rajesh	10	A		7
Q1744-02	B-158-SB01	TCLP Pesticide	100	6	ritesh	rajesh	10	A		8
Q1744-04	B-158-SB02	TCLP Pesticide	100	6	ritesh	rajesh	10	A		9
Q1746-02	B-149-SB01	TCLP Pesticide	100	6	ritesh	rajesh	10	A		10
Q1746-04	B-149-SB02	TCLP Pesticide	100	6	ritesh	rajesh	10	A		11

* **Extracts relinguished on the same date as received.**

4/9/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167467

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167467TB	LEB467	18	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q1712-04	Z-05A	01	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1712-08	TT-7	02	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1719-01	TP-3-1	03	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1719-02	TP-3-2	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1719-03	TP-3-3	05	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-04	TP-3-4	06	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1719-05	TP-3-5	07	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-06	TP-3-6	08	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1719-07	TP-3-7	09	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-08	TP-3-8	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-09	TP-3-9	11	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-2
Q1719-10	TP-3-10	12	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1719-11	TP-3-11	13	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1719-12	TP-3-12	14	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1732-04	TT-8	15	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q1737-02	RT3069	16	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1740-04	TP-20	17	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2

04/07/25
11:00

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TCLP EXTRACTION LOGPAGE

PB167488

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167488TB	LEB488	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.5	N/A

04/07/25
12:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

04/09/25

12:40

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
			TCLP Pesticide	8081B		04/09/25	04/09/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
			TCLP Pesticide	8081B		04/09/25	04/09/25	
Q1746-05	**B-158-GW01**	**Water**			**04/05/25**			**04/07/25**
			EPH	NJEPH		04/09/25	04/09/25	
			EPH	NJEPH		04/09/25	04/10/25	
			PCB	8082A		04/08/25	04/08/25	
Q1746-05DL	**B-158-GW01DL**	**Water**			**04/05/25**			**04/07/25**
			EPH	NJEPH		04/09/25	04/10/25	
Q1746-06	**B-149-GW01**	**WATER**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			EPH	NJEPH		04/09/25	04/09/25	
			EPH	NJEPH		04/09/25	04/10/25	

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LAB CHRONICLE

Q1746-07	**EB-2025-4-7**	**WATER**			**04/07/25**	**04/07/25**
			PCB	8082A	04/08/25	04/08/25
			EPH	NJEPH	04/09/25	04/09/25
			EPH	NJEPH	04/09/25	04/10/25

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1746 **Order ID:** Q1746

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

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A
B
C
D
E
F
G
H
I
J
K
L

SAMPLE DATA

Raw Data: **PP071161.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	89.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071161.D	1	04/08/25 08:11	04/08/25 18:28	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	19.0	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	19.0	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.0	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.0	ug/kg
12672-29-6	Aroclor-1248	6.60	U	6.60	19.0	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.0	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	19.0	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.0	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	19.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.4		30 (32) - 150 (144)	122%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.1		30 (32) - 150 (175)	116%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071162.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	84.8 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071162.D	1	04/08/25 08:11	04/08/25 18:45	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	20.0	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	20.0	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.0	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	20.0	ug/kg
12672-29-6	Aroclor-1248	7.00	U	7.00	20.0	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.0	ug/kg
37324-23-5	Aroclor-1262	5.90	U	5.90	20.0	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	20.0	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	20.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	28.2		30 (32) - 150 (144)	141%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.1		30 (32) - 150 (175)	111%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110311.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110311.D	1	04/08/25 08:25	04/08/25 15:44	PB167515

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.099	U	0.099	0.51	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.51	ug/L
11141-16-5	Aroclor-1232	0.098	U	0.098	0.51	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.51	ug/L
12672-29-6	Aroclor-1248	0.072	U	0.072	0.51	ug/L
11097-69-1	Aroclor-1254	0.096	U	0.096	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.51	ug/L
11096-82-5	Aroclor-1260	0.083	U	0.083	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.6		30 (16) - 150 (158)	78%	SPK: 20
2051-24-3	Decachlorobiphenyl	8.64		30 (10) - 150 (173)	43%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110312.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110312.D	1	04/08/25 08:25	04/08/25 16:02	PB167515

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.099	U	0.099	0.51	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.51	ug/L
11141-16-5	Aroclor-1232	0.098	U	0.098	0.51	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.51	ug/L
12672-29-6	Aroclor-1248	0.072	U	0.072	0.51	ug/L
11097-69-1	Aroclor-1254	0.096	U	0.096	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.51	ug/L
11096-82-5	Aroclor-1260	0.083	U	0.083	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.4		30 (16) - 150 (158)	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.8		30 (10) - 150 (173)	79%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110313.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110313.D	1	04/08/25 08:25	04/08/25 16:20	PB167515

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.098	U	0.098	0.51	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.51	ug/L
11141-16-5	Aroclor-1232	0.097	U	0.097	0.51	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.51	ug/L
12672-29-6	Aroclor-1248	0.072	U	0.072	0.51	ug/L
11097-69-1	Aroclor-1254	0.095	U	0.095	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.51	ug/L
11096-82-5	Aroclor-1260	0.082	U	0.082	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.0		30 (16) - 150 (158)	80%	SPK: 20
2051-24-3	Decachlorobiphenyl	10.7		30 (10) - 150 (173)	53%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PO109971.D	PIBLK-PO109971.D	Tetrachloro-m-xylene	1	20	18.5	93		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	20.0	100		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.6	93		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.3	107		70 (60)	130 (140)
I.BLK-PO110306.D	PIBLK-PO110306.D	Tetrachloro-m-xylene	1	20	18.2	91		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.4	92		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.4	87		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	15.3	77		70 (60)	130 (140)
PB167515BL	PB167515BL	Tetrachloro-m-xylene	1	20	19.6	98		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	19.8	99		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.6	93		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	16.4	82		30 (10)	150 (173)
PB167515BS	PB167515BS	Tetrachloro-m-xylene	1	20	19.6	98		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	21.2	106		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.6	93		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	17.3	87		30 (10)	150 (173)
PB167515BSD	PB167515BSD	Tetrachloro-m-xylene	1	20	19.1	95		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	20.6	103		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.1	91		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	16.7	83		30 (10)	150 (173)
Q1746-05	B-158-GW01	Tetrachloro-m-xylene	1	20	15.6	78		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	8.64	43		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	14.8	74		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	7.22	36		30 (10)	150 (173)
Q1746-06	B-149-GW01	Tetrachloro-m-xylene	1	20	17.4	87		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	15.8	79		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	17.1	86		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	12.8	64		30 (10)	150 (173)
Q1746-07	EB-2025-4-7	Tetrachloro-m-xylene	1	20	16.0	80		30 (16)	150 (158)
		Decachlorobiphenyl	1	20	10.7	53		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	15.4	77		30 (16)	150 (158)
		Decachlorobiphenyl	2	20	8.95	45		30 (10)	150 (173)
I.BLK-PO110319.D	PIBLK-PO110319.D	Tetrachloro-m-xylene	1	20	17.8	89		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.2	91		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.3	86		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	15.5	77		70 (60)	130 (140)
I.BLK-PP070916.D	PIBLK-PP070916.D	Tetrachloro-m-xylene	1	20	18.8	94		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	19.4	97		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.4	117		70 (60)	130 (140)
I.BLK-PP071140.D	PIBLK-PP071140.D	Tetrachloro-m-xylene	1	20	22.8	114		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP071140.D	PIBLK-PP071140.D	Decachlorobiphenyl	1	20	23.9	119		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	23.1	116		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.5	108		70 (60)	130 (140)
Q1742-01MS	TR-06-040725MS	Tetrachloro-m-xylene	1	20	18.7	94		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.0	115		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.9	100		30 (32)	150 (175)
Q1742-01MSD	TR-06-040725MSD	Tetrachloro-m-xylene	1	20	17.4	87		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.3	112		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.2	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	20.5	103		30 (32)	150 (175)
I.BLK-PP071155.D	PIBLK-PP071155.D	Tetrachloro-m-xylene	1	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.0	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	21.1	105		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.4	92		70 (60)	130 (140)
PB167507BL	PB167507BL	Tetrachloro-m-xylene	1	20	26.5	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.9	130		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	27.7	138		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	24.0	120		30 (32)	150 (175)
PB167507BS	PB167507BS	Tetrachloro-m-xylene	1	20	26.3	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.7	129		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.7	123		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.6	113		30 (32)	150 (175)
Q1746-01	B-149-SB01	Tetrachloro-m-xylene	1	20	24.2	121		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.1	116		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.4	122		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.1	105		30 (32)	150 (175)
Q1746-03	B-149-SB02	Tetrachloro-m-xylene	1	20	28.2	141		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.1	111		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	27.0	135		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	20.0	100		30 (32)	150 (175)
I.BLK-PP071168.D	PIBLK-PP071168.D	Tetrachloro-m-xylene	1	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.0	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.8	99		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.1	100		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP071147.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**TR-06-040725MS**											
Q1742-01MS	AR1016	189.9	0	176	ug/kg	93				40 (55)	140 (146)	
	AR1260	189.9	0	188	ug/kg	99				40 (31)	140 (146)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP071148.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**TR-06-040725MSD**											
Q1742-01MSD	AR1016	189.7	0	173	ug/kg	91		2		40 (55)	140 (146)	30 (20)
	AR1260	189.7	0	177	ug/kg	93		6		40 (31)	140 (146)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO110308.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167515BS	AR1016	5	4.30	ug/L	86				40 (61)	140 (112)	
	AR1260	5	4.20	ug/L	84				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO110309.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167515BSD	AR1016	5	4.20	ug/L	84	2			40 (61)	140 (112)	20 (20)
	AR1260	5	4.10	ug/L	82	2			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP071157.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167507BS	AR1016	166.6	181	ug/kg	109				40 (71)	140 (120)	
	AR1260	166.6	188	ug/kg	113				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167507BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: PB167507BL Lab File ID: PP071156.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 04/08/2025

Date Analyzed (1): 04/08/2025 Date Analyzed (2): 04/08/2025

Time Analyzed (1): 17:07 Time Analyzed (2): 17:07

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
TR-06-040725MS	Q1742-01MS	PP071147.D	04/08/2025	04/08/2025
TR-06-040725MSD	Q1742-01MSD	PP071148.D	04/08/2025	04/08/2025
PB167507BS	PB167507BS	PP071157.D	04/08/2025	04/08/2025
B-149-SB01	Q1746-01	PP071161.D	04/08/2025	04/08/2025
B-149-SB02	Q1746-03	PP071162.D	04/08/2025	04/08/2025

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167515BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: PB167515BL Lab File ID: PO110307.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 04/08/2025

Date Analyzed (1): 04/08/2025 Date Analyzed (2): 04/08/2025

Time Analyzed (1): 14:30 Time Analyzed (2): 14:30

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB167515BS	PB167515BS	PO110308.D	04/08/2025	04/08/2025
PB167515BSD	PB167515BSD	PO110309.D	04/08/2025	04/08/2025
B-158-GW01	Q1746-05	PO110311.D	04/08/2025	04/08/2025
B-149-GW01	Q1746-06	PO110312.D	04/08/2025	04/08/2025
EB-2025-4-7	Q1746-07	PO110313.D	04/08/2025	04/08/2025

COMMENTS:

QC SAMPLE DATA

Raw Data: **PP071156.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167507BL	SDG No.:	Q1746
Lab Sample ID:	PB167507BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071156.D	1	04/08/25 08:11	04/08/25 17:07	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.7		30 (32) - 150 (144)	138%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.9		30 (32) - 150 (175)	130%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110307.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167515BL	SDG No.:	Q1746
Lab Sample ID:	PB167515BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110307.D	1	04/08/25 08:25	04/08/25 14:30	PB167515

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		30 (16) - 150 (158)	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		30 (10) - 150 (173)	99%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/18/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/18/25
Client Sample ID:	PIBLK-PO109971.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PO109971.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109971.D	1		03/18/25	PO031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		70 (60) - 130 (140)	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.0		70 (60) - 130 (140)	100%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PO110306.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PO110306.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110306.D	1		04/08/25	PO040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.4		70 (60) - 130 (140)	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.3		70 (60) - 130 (140)	77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PO110319.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PO110319.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110319.D	1		04/08/25	PO040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.3		70 (60) - 130 (140)	86%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.5		70 (60) - 130 (140)	77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/27/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/27/25
Client Sample ID:	PIBLK-PP070916.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PP070916.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070916.D	1		03/27/25	PP032725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.4		70 (60) - 130 (140)	97%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071140.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PP071140.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071140.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.8		70 (60) - 130 (140)	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		70 (60) - 130 (140)	108%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071155.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PP071155.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071155.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		70 (60) - 130 (140)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.4		70 (60) - 130 (140)	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071168.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PP071168.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071168.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		70 (60) - 130 (140)	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		70 (60) - 130 (140)	100%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071157.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167507BS	SDG No.:	Q1746
Lab Sample ID:	PB167507BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071157.D	1	04/08/25 08:11	04/08/25 17:23	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	181		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	188		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.3		30 (32) - 150 (144)	132%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.7		30 (32) - 150 (175)	129%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110308.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167515BS	SDG No.:	Q1746
Lab Sample ID:	PB167515BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110308.D	1	04/08/25 08:25	04/08/25 14:49	PB167515

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.30		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.20		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		30 (16) - 150 (158)	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.2		30 (10) - 150 (173)	106%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PO110309.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167515BSD	SDG No.:	Q1746
Lab Sample ID:	PB167515BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO110309.D	1	04/08/25 08:25	04/08/25 15:07	PB167515

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.20		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.10		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.1		30 (16) - 150 (158)	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		30 (10) - 150 (173)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071147.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	TR-06-040725MS	SDG No.:	Q1746
Lab Sample ID:	Q1742-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071147.D	1	04/08/25 08:11	04/08/25 13:41	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	176		4.50	19.4	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.4	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.4	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.4	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.4	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.4	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.4	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.4	ug/kg
11096-82-5	Aroclor-1260	188		3.70	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		30 (32) - 150 (144)	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.0		30 (32) - 150 (175)	115%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PP071148.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	TR-06-040725MSD	SDG No.:	Q1746
Lab Sample ID:	Q1742-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.6 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071148.D	1	04/08/25 08:11	04/08/25 13:57	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	173		4.50	19.3	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.3	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.3	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.3	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.3	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.3	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.3	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.3	ug/kg
11096-82-5	Aroclor-1260	177		3.70	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		30 (32) - 150 (144)	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		30 (32) - 150 (175)	112%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_O **Calibration Date(s):** 03/18/2025 03/18/2025

Calibration Times: 14:03 22:15

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO109972.D RT 750 = PO109973.D

RT 500 = PO109974.D RT 250 = PO109975.D RT 050 = PO109976.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.79	4.79	4.79	4.79	4.78	4.79	4.69	4.89
Aroclor-1016-2	(2)	4.81	4.81	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1016-3	(3)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1016-4	(4)	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Aroclor-1016-5	(5)	5.24	5.24	5.24	5.24	5.24	5.24	5.14	5.34
Aroclor-1260-1	(1)	6.28	6.28	6.28	6.28	6.28	6.28	6.18	6.38
Aroclor-1260-2	(2)	6.47	6.47	6.47	6.47	6.47	6.47	6.37	6.57
Aroclor-1260-3	(3)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Aroclor-1260-4	(4)	7.10	7.10	7.10	7.10	7.10	7.10	7.00	7.20
Aroclor-1260-5	(5)	7.34	7.34	7.34	7.34	7.34	7.34	7.24	7.44
Decachlorobiphenyl		8.75	8.75	8.75	8.75	8.74	8.75	8.65	8.85
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1242-1	(1)	4.79	4.79	4.79	4.79	4.78	4.79	4.69	4.89
Aroclor-1242-2	(2)	4.80	4.80	4.81	4.80	4.80	4.80	4.70	4.90
Aroclor-1242-3	(3)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1242-4	(4)	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Aroclor-1242-5	(5)	5.64	5.63	5.64	5.63	5.63	5.63	5.53	5.73
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1248-1	(1)	4.78	4.79	4.79	4.78	4.78	4.78	4.68	4.88
Aroclor-1248-2	(2)	5.02	5.02	5.02	5.02	5.02	5.02	4.92	5.12
Aroclor-1248-3	(3)	5.24	5.24	5.24	5.24	5.24	5.24	5.14	5.34
Aroclor-1248-4	(4)	5.59	5.59	5.59	5.59	5.59	5.59	5.49	5.69
Aroclor-1248-5	(5)	5.63	5.64	5.63	5.63	5.63	5.63	5.53	5.73
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1254-1	(1)	5.59	5.59	5.59	5.59	5.59	5.59	5.49	5.69
Aroclor-1254-2	(2)	5.74	5.74	5.74	5.74	5.74	5.74	5.64	5.84
Aroclor-1254-3	(3)	6.15	6.15	6.15	6.15	6.15	6.15	6.05	6.25
Aroclor-1254-4	(4)	6.38	6.38	6.38	6.38	6.38	6.38	6.28	6.48
Aroclor-1254-5	(5)	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1268-1	(1)	7.62	7.62	7.62	7.62	7.62	7.62	7.52	7.72
Aroclor-1268-2	(2)	7.69	7.69	7.69	7.69	7.69	7.69	7.59	7.79
Aroclor-1268-3	(3)	7.90	7.90	7.90	7.90	7.90	7.90	7.80	8.00
Aroclor-1268-4	(4)	8.18	8.18	8.19	8.18	8.18	8.18	8.08	8.28
Aroclor-1268-5	(5)	8.48	8.48	8.48	8.48	8.48	8.48	8.38	8.58

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene	3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79

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Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_O **Calibration Date(s):** 03/18/2025 03/18/2025

Calibration Times: 14:03 22:15

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO109972.D RT 750 = PO109973.D

RT 500 = PO109974.D RT 250 = PO109975.D RT 050 = PO109976.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1016-2	(2)	4.79	4.79	4.79	4.79	4.79	4.79	4.69	4.89
Aroclor-1016-3	(3)	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Aroclor-1016-4	(4)	5.01	5.01	5.01	5.01	5.01	5.01	4.91	5.11
Aroclor-1016-5	(5)	5.22	5.22	5.22	5.22	5.22	5.22	5.12	5.32
Aroclor-1260-1	(1)	6.25	6.26	6.26	6.25	6.25	6.25	6.15	6.35
Aroclor-1260-2	(2)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Aroclor-1260-3	(3)	6.60	6.60	6.60	6.59	6.59	6.59	6.49	6.69
Aroclor-1260-4	(4)	7.07	7.07	7.07	7.07	7.07	7.07	6.97	7.17
Aroclor-1260-5	(5)	7.31	7.31	7.31	7.31	7.31	7.31	7.21	7.41
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1242-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1242-2	(2)	4.79	4.79	4.79	4.79	4.79	4.79	4.69	4.89
Aroclor-1242-3	(3)	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Aroclor-1242-4	(4)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Aroclor-1242-5	(5)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1248-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1248-2	(2)	5.01	5.01	5.01	5.01	5.01	5.01	4.91	5.11
Aroclor-1248-3	(3)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Aroclor-1248-4	(4)	5.22	5.22	5.22	5.22	5.22	5.22	5.12	5.32
Aroclor-1248-5	(5)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1254-1	(1)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Aroclor-1254-2	(2)	5.72	5.72	5.72	5.72	5.72	5.72	5.62	5.82
Aroclor-1254-3	(3)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-4	(4)	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Aroclor-1254-5	(5)	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Decachlorobiphenyl		8.69	8.70	8.70	8.70	8.69	8.70	8.60	8.80
Tetrachloro-m-xylene		3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79
Aroclor-1268-1	(1)	7.59	7.59	7.59	7.59	7.59	7.59	7.49	7.69
Aroclor-1268-2	(2)	7.66	7.66	7.65	7.65	7.65	7.65	7.55	7.75
Aroclor-1268-3	(3)	7.86	7.86	7.86	7.86	7.86	7.86	7.76	7.96
Aroclor-1268-4	(4)	8.15	8.15	8.15	8.15	8.15	8.15	8.05	8.25
Aroclor-1268-5	(5)	8.44	8.44	8.44	8.44	8.44	8.44	8.34	8.54

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.70	8.70	8.69	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene	3.69	3.69	3.69	3.69	3.69	3.69	3.59	3.79

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_O **Calibration Date(s):** 03/18/2025 03/18/2025

Calibration Times: 14:03 22:15

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PO109972.D **CF 750 =** PO109973.D

CF 500 = PO109974.D **CF 250 =** PO109975.D **CF 050 =** PO109976.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	318793340	329109113	342176988	354587888	338053060	336544078	4
Aroclor-1016-2	(2)	446388679	463709840	475172436	492289896	440868120	463685794	5
Aroclor-1016-3	(3)	297123739	311570976	324283686	341714956	328237360	320586143	5
Aroclor-1016-4	(4)	237983440	248526219	257445742	268101480	251389660	252689308	4
Aroclor-1016-5	(5)	250501585	263674729	272727188	289617476	297814400	274867076	7
Aroclor-1260-1	(1)	448474074	467586512	475904282	500944916	463845060	471350969	4
Aroclor-1260-2	(2)	549756400	573035712	574538170	604900316	675365020	595519124	8
Aroclor-1260-3	(3)	466244522	483474499	486507370	506233648	484047880	485301584	3
Aroclor-1260-4	(4)	395577993	413728377	429812132	453058452	428662340	424167859	5
Aroclor-1260-5	(5)	1037246832	1067855560	1076605366	1088369780	959152240	1045845956	5
Decachlorobiphenyl		7314268770	7585202853	7715836840	8064386520	7763558800	7688650757	4
Tetrachloro-m-xylene		9191618080	9409704013	9556350980	9350200040	7999627400	9101500103	7
Aroclor-1242-1	(1)	257021206	271242037	274350776	287750984	246670040	267407009	6
Aroclor-1242-2	(2)	361656206	376061644	380771426	397296944	325229300	368203104	7
Aroclor-1242-3	(3)	239272274	256595597	260500336	277304732	256081460	257950880	5
Aroclor-1242-4	(4)	191269111	202702439	206227546	215710620	184561000	200094143	6
Aroclor-1242-5	(5)	200342595	212233400	219728410	230305716	192670380	211056100	7
Decachlorobiphenyl		7073021470	7288055093	7382383840	7783557400	6481660800	7201735721	7
Tetrachloro-m-xylene		8702773030	8995385800	8954862760	9053765120	6655083400	8472374022	12
Aroclor-1248-1	(1)	203222777	210833551	219941524	231478528	236936100	220482496	6
Aroclor-1248-2	(2)	271717932	285234192	301067598	320199420	327717760	301187380	8
Aroclor-1248-3	(3)	341855080	357243465	374409124	395224264	397211640	373188715	6
Aroclor-1248-4	(4)	484718685	503724613	523274664	543824872	584555460	528019659	7
Aroclor-1248-5	(5)	341874536	354831647	369725290	387414496	410903120	372949818	7
Decachlorobiphenyl		7279802030	7532134600	7794766540	8111831880	8262032800	7796113570	5
Tetrachloro-m-xylene		8896906280	9107530813	9275989780	9374608920	8757655400	9082538239	3
Aroclor-1254-1	(1)	527461301	541865743	559314886	571016624	626589000	565249511	7
Aroclor-1254-2	(2)	454907170	469007857	483702014	470938584	527635000	481238125	6
Aroclor-1254-3	(3)	753626169	772675721	789277352	760170300	789680960	773086100	2
Aroclor-1254-4	(4)	465418236	477798716	486446390	499614064	471424900	480140461	3
Aroclor-1254-5	(5)	652046620	666447925	680525202	682124008	569584060	650145563	7
Decachlorobiphenyl		7506577390	7722603000	7867257780	8042146160	8253331200	7878383106	4
Tetrachloro-m-xylene		9124017490	9264222013	9387241720	8732477200	8689133000	9039418285	3
Aroclor-1268-1	(1)	1369838059	1374439380	1401378006	1431422640	1423576940	1400131005	2

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	1266296617	1262736967	1279632688	1321583800	1270503560	1280150726	2
Aroclor-1268-3	(3)	1019701747	1019547960	1038648586	1056461448	1003450380	1027562024	2
Aroclor-1268-4	(4)	432675859	421354135	447439086	473337560	435173000	441995928	4
Aroclor-1268-5	(5)	3202130253	3192211076	3228608174	3247761892	3036317900	3181405859	3
Decachlorobiphenyl		13640006290	13735597093	14120230440	14566780400	14594697800	14131462405	3
Tetrachloro-m-xylene		9016621250	8994153573	9277514520	9319153840	8874982800	9096485197	2

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_O **Calibration Date(s):** 03/18/2025 03/18/2025

Calibration Times: 14:03 22:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PO109972.D **CF 750 =** PO109973.D

CF 500 = PO109974.D **CF 250 =** PO109975.D **CF 050 =** PO109976.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	173731434	178393712	185954312	194985500	183209860	183254964	4
Aroclor-1016-2	(2)	252919767	260842944	268062016	276298580	249399140	261504489	4
Aroclor-1016-3	(3)	134029267	138651783	144331354	150165168	141715700	141778654	4
Aroclor-1016-4	(4)	107671732	112396073	118651742	125867636	125061600	117929757	7
Aroclor-1016-5	(5)	141734749	147685869	153486032	162580972	159105760	152918676	6
Aroclor-1260-1	(1)	240074381	247747439	258832620	273383796	257170920	255441831	5
Aroclor-1260-2	(2)	281757793	288999419	301276956	315867360	313526020	300285510	5
Aroclor-1260-3	(3)	267611935	278954948	288530668	305847736	303966000	288982257	6
Aroclor-1260-4	(4)	196048044	205344145	218294872	229292036	226412760	215078371	7
Aroclor-1260-5	(5)	481983300	481761991	513782868	520791536	495161780	498696295	4
Decachlorobiphenyl		2314898720	2277821173	2432747880	2620033760	2485044400	2426109187	6
Tetrachloro-m-xylene		5279380900	5378354400	5480250420	5516817960	4565680000	5244096736	7
Aroclor-1242-1	(1)	141331278	146781083	150759024	159963196	132242600	146215436	7
Aroclor-1242-2	(2)	205951481	214434265	215763772	224841412	179186640	208035514	8
Aroclor-1242-3	(3)	108828803	114341291	116166340	122887996	95840060	111612898	9
Aroclor-1242-4	(4)	107629937	113953347	117437436	126339948	114521460	115976426	6
Aroclor-1242-5	(5)	132486572	139043136	144664964	152408060	117607760	137242098	10
Decachlorobiphenyl		2177773130	2225931947	2270761420	2435729160	2067519400	2235543011	6
Tetrachloro-m-xylene		5049304150	5177204613	5163887520	5207194080	3529903800	4825498833	15
Aroclor-1248-1	(1)	111262575	115666484	120322434	126703700	133730220	121537083	7
Aroclor-1248-2	(2)	153166873	160144767	168518512	179835124	180628540	168458763	7
Aroclor-1248-3	(3)	163639212	170966695	179105274	191715488	200520960	181189526	8
Aroclor-1248-4	(4)	192034431	200649257	208567738	223057368	227978540	210457467	7
Aroclor-1248-5	(5)	189825244	196639567	203671792	215836044	233387660	207872061	8
Decachlorobiphenyl		2147083620	2251559707	2344655820	2535991200	2605882000	2377034469	8
Tetrachloro-m-xylene		5118943080	5218637120	5295153740	5366945840	5070595200	5214054996	2
Aroclor-1254-1	(1)	289813236	298739165	307722880	314204860	352998300	312695688	8
Aroclor-1254-2	(2)	250736607	259627313	268490268	271062664	307765180	271536406	8
Aroclor-1254-3	(3)	402159669	413409125	421207530	415558372	424838600	415434659	2
Aroclor-1254-4	(4)	231846868	237861840	244387952	246184552	252577700	242571782	3
Aroclor-1254-5	(5)	329301884	337898680	348664586	361298960	302328380	335898498	7
Decachlorobiphenyl		2196807900	2276377227	2418572320	2516603360	2645427200	2410757601	7
Tetrachloro-m-xylene		5207556450	5288727027	5346917000	5051956440	5061201200	5191271623	3
Aroclor-1268-1	(1)	560759375	568986040	578205714	598591620	620126960	585333942	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	519206129	525348819	532636024	548739284	562258340	537637719	3
Aroclor-1268-3	(3)	397648794	399556300	412917038	427809808	440374680	415661324	4
Aroclor-1268-4	(4)	153792414	154678659	162023954	168698684	166024000	161043542	4
Aroclor-1268-5	(5)	963659212	966574348	987141016	1016062428	1031847640	993056929	3
Decachlorobiphenyl		3902633900	3983566053	4144258760	4413490680	4552839600	4199357799	7
Tetrachloro-m-xylene		5158364110	5158184947	5281917420	5320423880	5129069800	5209592031	2

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_O **Date(s) Analyzed:** 03/18/2025 03/18/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.91	3.81	4.01	115828000
		2	3.99	3.89	4.09	86499800
		3	4.07	3.97	4.17	261696000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.07	3.97	4.17	215744000
		2	4.56	4.46	4.66	114786000
		3	4.81	4.71	4.91	211780000
		4	4.98	4.88	5.08	113561000
		5	5.02	4.92	5.12	80454000
Aroclor-1262	500	1	6.84	6.74	6.94	688120000
		2	7.34	7.24	7.44	1191970000
		3	7.62	7.52	7.72	470630000
		4	7.69	7.59	7.79	874576000
		5	8.18	8.08	8.28	394442000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_O **Date(s) Analyzed:** 03/18/2025 03/18/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.90	3.80	4.00	66882200
		2	3.99	3.89	4.09	49381600
		3	4.06	3.96	4.16	151684000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.06	3.96	4.16	124093000
		2	4.79	4.69	4.89	120349000
		3	4.97	4.87	5.07	63656000
		4	5.05	4.95	5.15	59341000
		5	5.22	5.12	5.32	63217800
Aroclor-1262	500	1	6.81	6.71	6.91	344312000
		2	7.31	7.21	7.41	537220000
		3	7.59	7.49	7.69	194051000
		4	7.65	7.55	7.75	361786000
		5	8.15	8.05	8.25	141162000

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP070917.D RT 750 = PP070918.D

RT 500 = PP070919.D RT 250 = PP070920.D RT 050 = PP070921.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.67	5.67	5.66	5.67	5.67	5.67	5.57	5.77
Aroclor-1016-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1016-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1016-4	(4)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1016-5	(5)	6.14	6.14	6.14	6.14	6.14	6.14	6.04	6.24
Aroclor-1260-1	(1)	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
Aroclor-1260-2	(2)	7.51	7.51	7.51	7.51	7.51	7.51	7.41	7.61
Aroclor-1260-3	(3)	7.87	7.87	7.87	7.87	7.87	7.87	7.77	7.97
Aroclor-1260-4	(4)	8.10	8.10	8.09	8.09	8.09	8.09	7.99	8.19
Aroclor-1260-5	(5)	8.41	8.42	8.41	8.41	8.41	8.41	8.31	8.51
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.52	4.51	4.52	4.51	4.51	4.41	4.61
Aroclor-1242-1	(1)	5.67	5.67	5.66	5.67	5.66	5.67	5.57	5.77
Aroclor-1242-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1242-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1242-4	(4)	5.85	5.85	5.85	5.85	5.84	5.85	5.75	5.95
Aroclor-1242-5	(5)	6.58	6.58	6.58	6.58	6.57	6.58	6.48	6.68
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.51	4.51	4.51	4.51	4.41	4.61
Aroclor-1248-1	(1)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1248-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1248-3	(3)	6.14	6.14	6.14	6.14	6.14	6.14	6.04	6.24
Aroclor-1248-4	(4)	6.54	6.54	6.54	6.54	6.54	6.54	6.44	6.64
Aroclor-1248-5	(5)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.51	4.52	4.51	4.51	4.41	4.61
Aroclor-1254-1	(1)	6.52	6.52	6.52	6.52	6.52	6.52	6.42	6.62
Aroclor-1254-2	(2)	6.73	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Aroclor-1254-3	(3)	7.10	7.09	7.10	7.10	7.10	7.10	7.00	7.20
Aroclor-1254-4	(4)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1254-5	(5)	7.79	7.79	7.79	7.79	7.79	7.79	7.69	7.89
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.51	4.51	4.52	4.51	4.41	4.61
Aroclor-1268-1	(1)	8.73	8.73	8.73	8.73	8.73	8.73	8.63	8.83
Aroclor-1268-2	(2)	8.82	8.82	8.82	8.82	8.82	8.82	8.72	8.92
Aroclor-1268-3	(3)	9.06	9.06	9.05	9.06	9.05	9.06	8.96	9.16
Aroclor-1268-4	(4)	9.47	9.47	9.47	9.47	9.47	9.47	9.37	9.57
Aroclor-1268-5	(5)	9.89	9.89	9.89	9.89	9.89	9.89	9.79	9.99

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene	4.52	4.51	4.51	4.52	4.51	4.51	4.41	4.61

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP070917.D RT 750 = PP070918.D

RT 500 = PP070919.D RT 250 = PP070920.D RT 050 = PP070921.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1016-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-3	(3)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1016-4	(4)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1016-5	(5)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1260-1	(1)	6.39	6.39	6.39	6.39	6.39	6.39	6.29	6.49
Aroclor-1260-2	(2)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Aroclor-1260-3	(3)	6.73	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Aroclor-1260-4	(4)	7.20	7.20	7.21	7.21	7.21	7.20	7.10	7.30
Aroclor-1260-5	(5)	7.45	7.44	7.45	7.45	7.45	7.45	7.35	7.55
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1242-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1242-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-3	(3)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1242-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-5	(5)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1248-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1248-2	(2)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1248-3	(3)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-4	(4)	5.36	5.36	5.36	5.36	5.35	5.36	5.26	5.46
Aroclor-1248-5	(5)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1254-1	(1)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Aroclor-1254-2	(2)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1254-3	(3)	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Aroclor-1254-4	(4)	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Aroclor-1254-5	(5)	6.91	6.91	6.91	6.91	6.91	6.91	6.81	7.01
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1268-1	(1)	7.73	7.73	7.73	7.73	7.73	7.73	7.63	7.83
Aroclor-1268-2	(2)	7.80	7.80	7.79	7.79	7.79	7.79	7.69	7.89
Aroclor-1268-3	(3)	8.00	8.00	8.00	8.00	8.00	8.00	7.90	8.10
Aroclor-1268-4	(4)	8.30	8.29	8.29	8.30	8.29	8.29	8.19	8.39
Aroclor-1268-5	(5)	8.60	8.60	8.60	8.60	8.60	8.60	8.50	8.70

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene	3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP070917.D **CF 750 =** PP070918.D

CF 500 = PP070919.D **CF 250 =** PP070920.D **CF 050 =** PP070921.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	47478014	49171687	50934060	54324668	52347880	50851262	5
Aroclor-1016-2	(2)	72483549	74568483	78811172	80433884	83971080	78053634	6
Aroclor-1016-3	(3)	43541298	44043953	46815864	48849960	52621940	47174603	7
Aroclor-1016-4	(4)	36661280	36602855	39014928	39212148	32287440	36755730	7
Aroclor-1016-5	(5)	32204227	33487635	35040682	36610940	32217200	33912137	5
Aroclor-1260-1	(1)	60625379	62238407	66823960	72729028	73347280	67152811	8
Aroclor-1260-2	(2)	90805769	95497569	97808710	102858984	93710780	96136362	4
Aroclor-1260-3	(3)	75946924	78957439	82970652	86114216	75601760	79918198	5
Aroclor-1260-4	(4)	67190656	75020355	81451428	78145636	91876440	78736903	11
Aroclor-1260-5	(5)	154592706	156108101	159960800	166857288	156911780	158886135	3
Decachlorobiphenyl		1019047430	1065730867	1116449000	1115108760	946747800	1052616771	7
Tetrachloro-m-xylene		1424837400	1461405720	1519248320	1595716440	1306667000	1461574976	7
Aroclor-1242-1	(1)	40990074	42746281	43432670	43984636	48732080	43977148	6
Aroclor-1242-2	(2)	64704598	63862937	67024876	68850388	57138840	64316328	7
Aroclor-1242-3	(3)	39349869	38048504	39702972	40627540	47468380	41039453	9
Aroclor-1242-4	(4)	30814559	31466187	32277086	32194644	25864220	30523339	8
Aroclor-1242-5	(5)	36006298	34981232	37334376	38560396	35669740	36510408	4
Decachlorobiphenyl		1036298130	1063489027	1106293120	1153452680	1056566000	1083219791	4
Tetrachloro-m-xylene		1443947330	1507747640	1537397120	1567165920	1326698400	1476591282	6
Aroclor-1248-1	(1)	31141042	33379292	33781538	45988760	37146900	36287506	15
Aroclor-1248-2	(2)	42399779	44979081	46192256	47122176	43999640	44938586	4
Aroclor-1248-3	(3)	48055172	50777464	51825052	50697180	51832600	50637494	3
Aroclor-1248-4	(4)	59878410	63471275	67039892	73429036	56919340	64147591	9
Aroclor-1248-5	(5)	56652876	60504408	64286140	68519384	54268440	60846250	9
Decachlorobiphenyl		1072017300	1124462173	1205136680	1167091680	1109917800	1135725127	5
Tetrachloro-m-xylene		1462181050	1544091280	1549039360	1559485200	1464932600	1515945898	3
Aroclor-1254-1	(1)	60157506	63067431	65471886	66806416	66447920	64390232	4
Aroclor-1254-2	(2)	92838442	97047215	101802392	105556104	108208740	101090579	6
Aroclor-1254-3	(3)	92334650	98055471	99416554	103841140	104991280	99727819	5
Aroclor-1254-4	(4)	84238161	87780547	86802510	88788836	85373700	86596751	2
Aroclor-1254-5	(5)	74433164	79038301	80854650	83958584	83470140	80350968	5
Decachlorobiphenyl		1095432410	1144692320	1168417220	1194330360	1035516600	1127677782	6
Tetrachloro-m-xylene		1501288360	1551275560	1575746420	1626904120	1301718600	1511386612	8
Aroclor-1268-1	(1)	226575551	237927453	239660032	247892192	225482800	235507606	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	190380276	198934901	200232346	204948924	182079900	195315269	4
Aroclor-1268-3	(3)	163648333	171737784	173955356	177246576	167979860	170913582	3
Aroclor-1268-4	(4)	70377008	73665913	73237284	74802952	61652780	70747187	7
Aroclor-1268-5	(5)	459553484	481598519	482514296	498456744	458756600	476175929	3
Decachlorobiphenyl		1956984350	2055290840	2095781900	2171413960	2007035400	2057301290	4
Tetrachloro-m-xylene		1523485290	1594639080	1607574540	1645012520	1440121400	1562166566	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP070917.D **CF 750 =** PP070918.D

CF 500 = PP070919.D **CF 250 =** PP070920.D **CF 050 =** PP070921.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	34208953	37661787	37955886	45294856	45319420	40088180	12
Aroclor-1016-2	(2)	49610574	53393839	54380778	65503040	66437080	57865062	12
Aroclor-1016-3	(3)	27000462	29732755	29849058	35508136	32526120	30923306	10
Aroclor-1016-4	(4)	21229955	23465415	23793788	28635320	24655080	24355912	10
Aroclor-1016-5	(5)	26939544	29893109	30154374	37292184	37326660	32321174	14
Aroclor-1260-1	(1)	45249076	46519276	48240522	56226688	59796020	51206316	12
Aroclor-1260-2	(2)	58475471	61260192	62904038	69183788	67145740	63793846	6
Aroclor-1260-3	(3)	50913622	52312629	53920638	58739540	56547700	54486826	5
Aroclor-1260-4	(4)	42366044	44395528	47488628	49955128	54926140	47826294	10
Aroclor-1260-5	(5)	113066934	116639771	125312810	127263128	140268800	124510289	8
Decachlorobiphenyl		793547960	846236520	865016160	753569280	682611000	788196184	9
Tetrachloro-m-xylene		926488500	1023245573	1036748080	1124812280	1071924800	1036643847	7
Aroclor-1242-1	(1)	30391529	31772724	34649408	38698720	35466820	34195840	9
Aroclor-1242-2	(2)	43879042	45075739	49434800	55503780	52395240	49257720	9
Aroclor-1242-3	(3)	24103124	24630729	26618958	29833472	28035100	26644277	8
Aroclor-1242-4	(4)	23086538	23159225	25581538	28618736	31445140	26378235	13
Aroclor-1242-5	(5)	28647762	29235153	31558738	32962404	32387440	30958299	6
Decachlorobiphenyl		794686010	779465320	775544600	851493360	677466800	775731218	8
Tetrachloro-m-xylene		994474400	1020857307	1119824860	1120535680	1106593200	1072457089	6
Aroclor-1248-1	(1)	23297586	26737011	28501250	29207540	27656520	27079981	8
Aroclor-1248-2	(2)	31071420	35918237	38274460	38702620	39645560	36722459	9
Aroclor-1248-3	(3)	32592570	37701093	39964120	40477712	42561380	38659375	9
Aroclor-1248-4	(4)	38114246	43411732	47181776	48244244	48753000	45141000	9
Aroclor-1248-5	(5)	37031094	41115012	43925318	46634268	44688040	42678746	8
Decachlorobiphenyl		763432400	822192813	827097300	806313080	732328400	790272799	5
Tetrachloro-m-xylene		969522160	1045815880	1138159760	1084071480	1169729800	1081459816	7
Aroclor-1254-1	(1)	58928147	61799583	66082486	73787844	69490960	66017804	8
Aroclor-1254-2	(2)	50145967	53786207	56793554	64034708	60730300	57098147	9
Aroclor-1254-3	(3)	77448562	83642240	87764778	99090376	86260880	86841367	9
Aroclor-1254-4	(4)	49998215	54614948	55966900	64174348	55747980	56100478	9
Aroclor-1254-5	(5)	65979008	71358709	71825896	82425644	69163880	72150627	8
Decachlorobiphenyl		783483810	796181933	910832540	850283840	759277600	820011945	7
Tetrachloro-m-xylene		1042595600	1091536387	1108578240	1195164040	1067355200	1101045893	5
Aroclor-1268-1	(1)	165356134	175541800	174753666	176934688	164423820	171402022	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	137801505	147739099	145758868	146778256	138336660	143282878	3
Aroclor-1268-3	(3)	120132746	127507232	124391202	127247744	116467620	123149309	4
Aroclor-1268-4	(4)	51096977	54505272	53344994	55689972	49428660	52813175	5
Aroclor-1268-5	(5)	357060145	376226307	370949858	366544744	338563340	361868879	4
Decachlorobiphenyl		1484820890	1579158933	1563503220	1620729960	1432317200	1536106041	5
Tetrachloro-m-xylene		1051289840	1118865693	1118283520	1183542080	1260888000	1146573827	7

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_P **Date(s) Analyzed:** 03/27/2025 03/27/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.72	4.62	4.82	17353700
		2	4.80	4.70	4.90	12952900
		3	4.88	4.78	4.98	41717200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.88	4.78	4.98	33288800
		2	5.41	5.31	5.51	15910300
		3	5.69	5.59	5.79	34270400
		4	5.85	5.75	5.95	15707600
		5	5.94	5.84	6.04	10640400
Aroclor-1262	500	1	8.09	7.99	8.19	106300000
		2	8.41	8.31	8.51	198383000
		3	8.73	8.63	8.83	131742000
		4	8.82	8.72	8.92	95614800
		5	9.47	9.37	9.57	65066400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_P **Date(s) Analyzed:** 03/27/2025 03/27/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.03	3.93	4.13	15243600
		2	4.11	4.01	4.21	11436300
		3	4.19	4.09	4.29	34089000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.19	4.09	4.29	27986800
		2	4.92	4.82	5.02	28061200
		3	5.10	5.00	5.20	14889600
		4	5.19	5.09	5.29	12804400
		5	5.36	5.26	5.46	14174800
Aroclor-1262	500	1	6.95	6.85	7.05	85563600
		2	7.21	7.11	7.31	68464400
		3	7.73	7.63	7.83	60723600
		4	7.79	7.69	7.89	99406800
		5	8.29	8.19	8.39	46871600

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/18/2025 03/18/2025

Continuing Calib Time: 12:58 **Initial Calibration Time(s):** 14:03 22:15

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.78	4.79	4.69	4.89	0.01
Aroclor-1016-2	(2)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-3	(3)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-4	(4)	4.98	4.98	4.88	5.08	0.00
Aroclor-1016-5	(5)	5.24	5.24	5.14	5.34	0.00
Aroclor-1260-1	(1)	6.28	6.28	6.18	6.38	0.00
Aroclor-1260-2	(2)	6.47	6.47	6.37	6.57	0.00
Aroclor-1260-3	(3)	6.83	6.84	6.74	6.94	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.34	7.34	7.24	7.44	0.00
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.74	8.75	8.65	8.85	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/18/2025 03/18/2025

Continuing Calib Time: 12:58 **Initial Calibration Time(s):** 14:03 22:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.77	4.77	4.67	4.87	0.00
Aroclor-1016-2	(2)	4.79	4.79	4.69	4.89	0.00
Aroclor-1016-3	(3)	4.96	4.97	4.87	5.07	0.01
Aroclor-1016-4	(4)	5.01	5.01	4.91	5.11	0.00
Aroclor-1016-5	(5)	5.22	5.22	5.12	5.32	0.00
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.44	6.34	6.54	0.00
Aroclor-1260-3	(3)	6.59	6.60	6.50	6.70	0.01
Aroclor-1260-4	(4)	7.06	7.07	6.97	7.17	0.01
Aroclor-1260-5	(5)	7.30	7.31	7.21	7.41	0.01
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.69	8.70	8.60	8.80	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/18/2025 03/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110302.D **Time Analyzed:** 12:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.783	4.685	4.885	478.010	500.000	-4.4
Aroclor-1016-2	4.802	4.704	4.904	481.930	500.000	-3.6
Aroclor-1016-3	4.858	4.761	4.961	488.150	500.000	-2.4
Aroclor-1016-4	4.979	4.881	5.081	483.730	500.000	-3.3
Aroclor-1016-5	5.237	5.139	5.339	484.580	500.000	-3.1
Aroclor-1260-1	6.277	6.180	6.380	484.710	500.000	-3.1
Aroclor-1260-2	6.466	6.369	6.569	466.260	500.000	-6.7
Aroclor-1260-3	6.834	6.737	6.937	478.180	500.000	-4.4
Aroclor-1260-4	7.094	6.998	7.198	469.910	500.000	-6.0
Aroclor-1260-5	7.336	7.239	7.439	460.630	500.000	-7.9
Decachlorobiphenyl	8.739	8.645	8.845	56.540	50.000	13.1
Tetrachloro-m-xylene	3.691	3.592	3.792	47.860	50.000	-4.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/18/2025 03/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110302.D **Time Analyzed:** 12:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.769	4.672	4.872	459.150	500.000	-8.2
Aroclor-1016-2	4.788	4.691	4.891	461.630	500.000	-7.7
Aroclor-1016-3	4.963	4.867	5.067	464.240	500.000	-7.2
Aroclor-1016-4	5.005	4.909	5.109	462.280	500.000	-7.5
Aroclor-1016-5	5.218	5.122	5.322	459.630	500.000	-8.1
Aroclor-1260-1	6.250	6.155	6.355	447.090	500.000	-10.6
Aroclor-1260-2	6.438	6.342	6.542	439.930	500.000	-12.0
Aroclor-1260-3	6.591	6.495	6.695	426.390	500.000	-14.7
Aroclor-1260-4	7.063	6.967	7.167	425.830	500.000	-14.8
Aroclor-1260-5	7.303	7.207	7.407	416.620	500.000	-16.7
Decachlorobiphenyl	8.692	8.596	8.796	45.310	50.000	-9.4
Tetrachloro-m-xylene	3.688	3.590	3.790	47.270	50.000	-5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/18/2025 03/18/2025

Continuing Calib Time: 17:54 **Initial Calibration Time(s):** 14:03 22:15

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.78	4.79	4.69	4.89	0.01
Aroclor-1016-2	(2)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-3	(3)	4.86	4.86	4.76	4.96	0.00
Aroclor-1016-4	(4)	4.98	4.98	4.88	5.08	0.00
Aroclor-1016-5	(5)	5.24	5.24	5.14	5.34	0.00
Aroclor-1260-1	(1)	6.28	6.28	6.18	6.38	0.00
Aroclor-1260-2	(2)	6.47	6.47	6.37	6.57	0.00
Aroclor-1260-3	(3)	6.83	6.84	6.74	6.94	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.34	7.34	7.24	7.44	0.00
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.74	8.75	8.65	8.85	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/18/2025 03/18/2025

Continuing Calib Time: 17:54 **Initial Calibration Time(s):** 14:03 22:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.77	4.77	4.67	4.87	0.00
Aroclor-1016-2	(2)	4.79	4.79	4.69	4.89	0.00
Aroclor-1016-3	(3)	4.96	4.97	4.87	5.07	0.01
Aroclor-1016-4	(4)	5.01	5.01	4.91	5.11	0.00
Aroclor-1016-5	(5)	5.22	5.22	5.12	5.32	0.00
Aroclor-1260-1	(1)	6.25	6.26	6.16	6.36	0.01
Aroclor-1260-2	(2)	6.44	6.44	6.34	6.54	0.00
Aroclor-1260-3	(3)	6.59	6.60	6.50	6.70	0.01
Aroclor-1260-4	(4)	7.06	7.07	6.97	7.17	0.01
Aroclor-1260-5	(5)	7.30	7.31	7.21	7.41	0.01
Tetrachloro-m-xylene		3.69	3.69	3.59	3.79	0.00
Decachlorobiphenyl		8.69	8.70	8.60	8.80	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/18/2025 03/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110315.D **Time Analyzed:** 17:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.781	4.685	4.885	476.910	500.000	-4.6
Aroclor-1016-2	4.801	4.704	4.904	479.380	500.000	-4.1
Aroclor-1016-3	4.857	4.761	4.961	481.950	500.000	-3.6
Aroclor-1016-4	4.977	4.881	5.081	474.440	500.000	-5.1
Aroclor-1016-5	5.235	5.139	5.339	487.450	500.000	-2.5
Aroclor-1260-1	6.276	6.180	6.380	480.600	500.000	-3.9
Aroclor-1260-2	6.465	6.369	6.569	458.870	500.000	-8.2
Aroclor-1260-3	6.832	6.737	6.937	467.790	500.000	-6.4
Aroclor-1260-4	7.092	6.998	7.198	459.450	500.000	-8.1
Aroclor-1260-5	7.335	7.239	7.439	450.870	500.000	-9.8
Decachlorobiphenyl	8.738	8.645	8.845	55.330	50.000	10.7
Tetrachloro-m-xylene	3.689	3.592	3.792	47.630	50.000	-4.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/18/2025 03/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO110315.D **Time Analyzed:** 17:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.768	4.672	4.872	459.430	500.000	-8.1
Aroclor-1016-2	4.787	4.691	4.891	459.990	500.000	-8.0
Aroclor-1016-3	4.963	4.867	5.067	461.620	500.000	-7.7
Aroclor-1016-4	5.005	4.909	5.109	457.450	500.000	-8.5
Aroclor-1016-5	5.217	5.122	5.322	464.660	500.000	-7.1
Aroclor-1260-1	6.250	6.155	6.355	444.580	500.000	-11.1
Aroclor-1260-2	6.438	6.342	6.542	437.380	500.000	-12.5
Aroclor-1260-3	6.591	6.495	6.695	422.190	500.000	-15.6
Aroclor-1260-4	7.062	6.967	7.167	419.140	500.000	-16.2
Aroclor-1260-5	7.303	7.207	7.407	409.380	500.000	-18.1
Decachlorobiphenyl	8.691	8.596	8.796	44.500	50.000	-11.0
Tetrachloro-m-xylene	3.687	3.590	3.790	47.340	50.000	-5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 09:37 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.66	5.56	5.76	-0.02
Aroclor-1016-2	(2)	5.70	5.69	5.59	5.79	-0.01
Aroclor-1016-3	(3)	5.76	5.75	5.65	5.85	-0.01
Aroclor-1016-4	(4)	5.86	5.85	5.75	5.95	-0.01
Aroclor-1016-5	(5)	6.15	6.14	6.04	6.24	-0.01
Aroclor-1260-1	(1)	7.27	7.26	7.16	7.36	-0.01
Aroclor-1260-2	(2)	7.53	7.51	7.41	7.61	-0.02
Aroclor-1260-3	(3)	7.89	7.87	7.77	7.97	-0.02
Aroclor-1260-4	(4)	8.11	8.09	7.99	8.19	-0.02
Aroclor-1260-5	(5)	8.43	8.41	8.31	8.51	-0.02
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	-0.01
Decachlorobiphenyl		10.26	10.23	10.13	10.33	-0.03

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 09:37 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.74	6.73	6.63	6.83	-0.01
Aroclor-1260-4	(4)	7.21	7.21	7.11	7.31	0.00
Aroclor-1260-5	(5)	7.45	7.45	7.35	7.55	0.00
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071136.D **Time Analyzed:** 09:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.679	5.563	5.763	504.230	500.000	0.8
Aroclor-1016-2	5.700	5.585	5.785	472.510	500.000	-5.5
Aroclor-1016-3	5.763	5.648	5.848	488.820	500.000	-2.2
Aroclor-1016-4	5.861	5.745	5.945	525.740	500.000	5.1
Aroclor-1016-5	6.154	6.038	6.238	539.860	500.000	8.0
Aroclor-1260-1	7.273	7.156	7.356	518.030	500.000	3.6
Aroclor-1260-2	7.527	7.410	7.610	536.780	500.000	7.4
Aroclor-1260-3	7.885	7.768	7.968	503.360	500.000	0.7
Aroclor-1260-4	8.109	7.992	8.192	501.370	500.000	0.3
Aroclor-1260-5	8.431	8.311	8.511	506.740	500.000	1.3
Decachlorobiphenyl	10.255	10.125	10.325	51.060	50.000	2.1
Tetrachloro-m-xylene	4.524	4.412	4.612	51.340	50.000	2.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071136.D **Time Analyzed:** 09:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.904	4.803	5.003	491.030	500.000	-1.8
Aroclor-1016-2	4.923	4.822	5.022	483.510	500.000	-3.3
Aroclor-1016-3	5.101	4.999	5.199	522.710	500.000	4.5
Aroclor-1016-4	5.142	5.041	5.241	542.480	500.000	8.5
Aroclor-1016-5	5.357	5.255	5.455	530.130	500.000	6.0
Aroclor-1260-1	6.393	6.292	6.492	547.620	500.000	9.5
Aroclor-1260-2	6.582	6.480	6.680	534.460	500.000	6.9
Aroclor-1260-3	6.735	6.634	6.834	546.870	500.000	9.4
Aroclor-1260-4	7.207	7.105	7.305	489.720	500.000	-2.1
Aroclor-1260-5	7.448	7.346	7.546	462.070	500.000	-7.6
Decachlorobiphenyl	8.862	8.759	8.959	43.790	50.000	-12.4
Tetrachloro-m-xylene	3.817	3.716	3.916	47.940	50.000	-4.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 15:29 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.66	5.56	5.76	-0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.76	5.75	5.65	5.85	-0.01
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.15	6.14	6.04	6.24	-0.01
Aroclor-1260-1	(1)	7.27	7.26	7.16	7.36	0.00
Aroclor-1260-2	(2)	7.52	7.51	7.41	7.61	-0.01
Aroclor-1260-3	(3)	7.88	7.87	7.77	7.97	-0.01
Aroclor-1260-4	(4)	8.10	8.09	7.99	8.19	-0.01
Aroclor-1260-5	(5)	8.42	8.41	8.31	8.51	-0.01
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	-0.01
Decachlorobiphenyl		10.24	10.23	10.13	10.33	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 15:29 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.73	6.73	6.63	6.83	0.00
Aroclor-1260-4	(4)	7.20	7.21	7.11	7.31	0.01
Aroclor-1260-5	(5)	7.45	7.45	7.35	7.55	0.00
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071151.D **Time Analyzed:** 15:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.671	5.563	5.763	484.620	500.000	-3.1
Aroclor-1016-2	5.692	5.585	5.785	482.920	500.000	-3.4
Aroclor-1016-3	5.755	5.648	5.848	470.770	500.000	-5.8
Aroclor-1016-4	5.852	5.745	5.945	505.800	500.000	1.2
Aroclor-1016-5	6.146	6.038	6.238	510.370	500.000	2.1
Aroclor-1260-1	7.265	7.156	7.356	508.140	500.000	1.6
Aroclor-1260-2	7.519	7.410	7.610	516.880	500.000	3.4
Aroclor-1260-3	7.879	7.768	7.968	504.190	500.000	0.8
Aroclor-1260-4	8.103	7.992	8.192	470.830	500.000	-5.8
Aroclor-1260-5	8.424	8.311	8.511	486.490	500.000	-2.7
Decachlorobiphenyl	10.243	10.125	10.325	49.190	50.000	-1.6
Tetrachloro-m-xylene	4.516	4.412	4.612	50.490	50.000	1.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071151.D **Time Analyzed:** 15:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.902	4.803	5.003	520.460	500.000	4.1
Aroclor-1016-2	4.921	4.822	5.022	507.900	500.000	1.6
Aroclor-1016-3	5.098	4.999	5.199	543.550	500.000	8.7
Aroclor-1016-4	5.140	5.041	5.241	556.220	500.000	11.2
Aroclor-1016-5	5.355	5.255	5.455	535.660	500.000	7.1
Aroclor-1260-1	6.390	6.292	6.492	521.040	500.000	4.2
Aroclor-1260-2	6.579	6.480	6.680	514.470	500.000	2.9
Aroclor-1260-3	6.732	6.634	6.834	529.510	500.000	5.9
Aroclor-1260-4	7.204	7.105	7.305	494.430	500.000	-1.1
Aroclor-1260-5	7.446	7.346	7.546	448.730	500.000	-10.3
Decachlorobiphenyl	8.859	8.759	8.959	40.800	50.000	-18.4
Tetrachloro-m-xylene	3.816	3.716	3.916	47.690	50.000	-4.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 20:28 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.66	5.56	5.76	-0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.14	6.14	6.04	6.24	0.00
Aroclor-1260-1	(1)	7.26	7.26	7.16	7.36	0.00
Aroclor-1260-2	(2)	7.52	7.51	7.41	7.61	-0.01
Aroclor-1260-3	(3)	7.88	7.87	7.77	7.97	-0.01
Aroclor-1260-4	(4)	8.10	8.09	7.99	8.19	-0.01
Aroclor-1260-5	(5)	8.42	8.41	8.31	8.51	-0.01
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	0.00
Decachlorobiphenyl		10.24	10.23	10.13	10.33	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 20:28 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.35	5.36	5.26	5.46	0.01
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.73	6.73	6.63	6.83	0.00
Aroclor-1260-4	(4)	7.20	7.21	7.11	7.31	0.01
Aroclor-1260-5	(5)	7.44	7.45	7.35	7.55	0.01
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL05 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071164.D **Time Analyzed:** 20:28

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.669	5.563	5.763	499.770	500.000	0.0
Aroclor-1016-2	5.691	5.585	5.785	486.450	500.000	-2.7
Aroclor-1016-3	5.753	5.648	5.848	487.290	500.000	-2.5
Aroclor-1016-4	5.851	5.745	5.945	522.270	500.000	4.5
Aroclor-1016-5	6.144	6.038	6.238	525.330	500.000	5.1
Aroclor-1260-1	7.263	7.156	7.356	533.550	500.000	6.7
Aroclor-1260-2	7.517	7.410	7.610	536.350	500.000	7.3
Aroclor-1260-3	7.876	7.768	7.968	517.550	500.000	3.5
Aroclor-1260-4	8.100	7.992	8.192	501.150	500.000	0.2
Aroclor-1260-5	8.420	8.311	8.511	506.710	500.000	1.3
Decachlorobiphenyl	10.239	10.125	10.325	50.140	50.000	0.3
Tetrachloro-m-xylene	4.515	4.412	4.612	50.290	50.000	0.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL05 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071164.D **Time Analyzed:** 20:28

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.901	4.803	5.003	472.560	500.000	-5.5
Aroclor-1016-2	4.919	4.822	5.022	457.460	500.000	-8.5
Aroclor-1016-3	5.096	4.999	5.199	490.060	500.000	-2.0
Aroclor-1016-4	5.139	5.041	5.241	496.520	500.000	-0.7
Aroclor-1016-5	5.353	5.255	5.455	471.190	500.000	-5.8
Aroclor-1260-1	6.389	6.292	6.492	508.230	500.000	1.6
Aroclor-1260-2	6.578	6.480	6.680	502.080	500.000	0.4
Aroclor-1260-3	6.730	6.634	6.834	507.090	500.000	1.4
Aroclor-1260-4	7.202	7.105	7.305	484.720	500.000	-3.1
Aroclor-1260-5	7.444	7.346	7.546	440.870	500.000	-11.8
Decachlorobiphenyl	8.857	8.759	8.959	43.280	50.000	-13.4
Tetrachloro-m-xylene	3.815	3.716	3.916	46.910	50.000	-6.2

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/18/2025 03/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/18/2025	13:44	PO109971.D	8.74	3.69
AR1660ICC1000	AR1660ICC1000	03/18/2025	14:03	PO109972.D	8.75	3.69
AR1660ICC750	AR1660ICC750	03/18/2025	14:21	PO109973.D	8.75	3.69
AR1660ICC500	AR1660ICC500	03/18/2025	14:39	PO109974.D	8.75	3.69
AR1660ICC250	AR1660ICC250	03/18/2025	14:58	PO109975.D	8.75	3.69
AR1660ICC050	AR1660ICC050	03/18/2025	15:16	PO109976.D	8.74	3.69
AR1221ICC500	AR1221ICC500	03/18/2025	15:34	PO109977.D	8.74	3.69
AR1232ICC500	AR1232ICC500	03/18/2025	15:53	PO109978.D	8.74	3.69
AR1242ICC1000	AR1242ICC1000	03/18/2025	16:11	PO109979.D	8.74	3.69
AR1242ICC750	AR1242ICC750	03/18/2025	16:30	PO109980.D	8.74	3.69
AR1242ICC500	AR1242ICC500	03/18/2025	16:48	PO109981.D	8.74	3.69
AR1242ICC250	AR1242ICC250	03/18/2025	17:06	PO109982.D	8.74	3.69
AR1242ICC050	AR1242ICC050	03/18/2025	17:25	PO109983.D	8.74	3.69
AR1248ICC1000	AR1248ICC1000	03/18/2025	17:42	PO109984.D	8.74	3.69
AR1248ICC750	AR1248ICC750	03/18/2025	18:00	PO109985.D	8.74	3.69
AR1248ICC500	AR1248ICC500	03/18/2025	18:19	PO109986.D	8.74	3.69
AR1248ICC250	AR1248ICC250	03/18/2025	18:37	PO109987.D	8.74	3.69
AR1248ICC050	AR1248ICC050	03/18/2025	18:54	PO109988.D	8.74	3.69
AR1254ICC1000	AR1254ICC1000	03/18/2025	19:13	PO109989.D	8.74	3.69
AR1254ICC750	AR1254ICC750	03/18/2025	19:31	PO109990.D	8.74	3.69
AR1254ICC500	AR1254ICC500	03/18/2025	19:49	PO109991.D	8.74	3.69
AR1254ICC250	AR1254ICC250	03/18/2025	20:07	PO109992.D	8.74	3.69
AR1254ICC050	AR1254ICC050	03/18/2025	20:25	PO109993.D	8.74	3.69
AR1262ICC500	AR1262ICC500	03/18/2025	20:43	PO109994.D	8.74	3.69
AR1268ICC1000	AR1268ICC1000	03/18/2025	21:02	PO109995.D	8.74	3.69
AR1268ICC750	AR1268ICC750	03/18/2025	21:20	PO109996.D	8.74	3.69
AR1268ICC500	AR1268ICC500	03/18/2025	21:39	PO109997.D	8.74	3.69
AR1268ICC250	AR1268ICC250	03/18/2025	21:57	PO109998.D	8.74	3.69
AR1268ICC050	AR1268ICC050	03/18/2025	22:15	PO109999.D	8.74	3.69
AR1660CCC500	AR1660CCC500	04/08/2025	12:58	PO110302.D	8.74	3.69
I.BLK	I.BLK	04/08/2025	14:12	PO110306.D	8.74	3.69
PB167515BL	PB167515BL	04/08/2025	14:30	PO110307.D	8.74	3.69
PB167515BS	PB167515BS	04/08/2025	14:49	PO110308.D	8.74	3.69
PB167515BSD	PB167515BSD	04/08/2025	15:07	PO110309.D	8.74	3.69
B-158-GW01	Q1746-05	04/08/2025	15:44	PO110311.D	8.74	3.69
B-149-GW01	Q1746-06	04/08/2025	16:02	PO110312.D	8.74	3.69
EB-2025-4-7	Q1746-07	04/08/2025	16:20	PO110313.D	8.74	3.69
AR1660CCC500	AR1660CCC500	04/08/2025	17:54	PO110315.D	8.74	3.69
I.BLK	I.BLK	04/08/2025	19:43	PO110319.D	8.74	3.69
I.BLK	I.BLK	03/27/2025	10:14	PP070916.D	10.23	4.51
AR1660ICC1000	AR1660ICC1000	03/27/2025	10:30	PP070917.D	10.23	4.51
AR1660ICC750	AR1660ICC750	03/27/2025	10:47	PP070918.D	10.23	4.52

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Analytical Sequence

AR1660ICC500	AR1660ICC500	03/27/2025	11:03	PP070919.D	10.23	4.51
AR1660ICC250	AR1660ICC250	03/27/2025	11:19	PP070920.D	10.23	4.52
AR1660ICC050	AR1660ICC050	03/27/2025	11:35	PP070921.D	10.23	4.51
AR1221ICC500	AR1221ICC500	03/27/2025	11:52	PP070922.D	10.23	4.52
AR1232ICC500	AR1232ICC500	03/27/2025	12:11	PP070923.D	10.23	4.52
AR1242ICC1000	AR1242ICC1000	03/27/2025	12:28	PP070924.D	10.23	4.51
AR1242ICC750	AR1242ICC750	03/27/2025	12:44	PP070925.D	10.23	4.51
AR1242ICC500	AR1242ICC500	03/27/2025	13:00	PP070926.D	10.23	4.51
AR1242ICC250	AR1242ICC250	03/27/2025	13:16	PP070927.D	10.23	4.51
AR1242ICC050	AR1242ICC050	03/27/2025	13:33	PP070928.D	10.23	4.51
AR1248ICC1000	AR1248ICC1000	03/27/2025	13:49	PP070929.D	10.23	4.51
AR1248ICC750	AR1248ICC750	03/27/2025	14:05	PP070930.D	10.23	4.51
AR1248ICC500	AR1248ICC500	03/27/2025	14:22	PP070931.D	10.23	4.51
AR1248ICC250	AR1248ICC250	03/27/2025	14:38	PP070932.D	10.23	4.52
AR1248ICC050	AR1248ICC050	03/27/2025	14:55	PP070933.D	10.23	4.51
AR1254ICC1000	AR1254ICC1000	03/27/2025	15:11	PP070934.D	10.23	4.51
AR1254ICC750	AR1254ICC750	03/27/2025	15:27	PP070935.D	10.23	4.51
AR1254ICC500	AR1254ICC500	03/27/2025	15:43	PP070936.D	10.23	4.51
AR1254ICC250	AR1254ICC250	03/27/2025	16:00	PP070937.D	10.23	4.51
AR1254ICC050	AR1254ICC050	03/27/2025	16:16	PP070938.D	10.23	4.52
AR1262ICC500	AR1262ICC500	03/27/2025	16:32	PP070939.D	10.23	4.51
AR1268ICC1000	AR1268ICC1000	03/27/2025	16:48	PP070940.D	10.23	4.52
AR1268ICC750	AR1268ICC750	03/27/2025	17:05	PP070941.D	10.23	4.51
AR1268ICC500	AR1268ICC500	03/27/2025	17:21	PP070942.D	10.23	4.51
AR1268ICC250	AR1268ICC250	03/27/2025	17:37	PP070943.D	10.23	4.52
AR1268ICC050	AR1268ICC050	03/27/2025	17:53	PP070944.D	10.23	4.51
AR1660CCC500	AR1660CCC500	04/08/2025	09:37	PP071136.D	10.26	4.52
I.BLK	I.BLK	04/08/2025	11:05	PP071140.D	10.25	4.52
TR-06-040725MS	Q1742-01MS	04/08/2025	13:41	PP071147.D	10.24	4.51
TR-06-040725MSD	Q1742-01MSD	04/08/2025	13:57	PP071148.D	10.25	4.52
AR1660CCC500	AR1660CCC500	04/08/2025	15:29	PP071151.D	10.24	4.52
I.BLK	I.BLK	04/08/2025	16:51	PP071155.D	10.24	4.52
PB167507BL	PB167507BL	04/08/2025	17:07	PP071156.D	10.24	4.52
PB167507BS	PB167507BS	04/08/2025	17:23	PP071157.D	10.24	4.52
B-149-SB01	Q1746-01	04/08/2025	18:28	PP071161.D	10.24	4.52
B-149-SB02	Q1746-03	04/08/2025	18:45	PP071162.D	10.24	4.52
AR1660CCC500	AR1660CCC500	04/08/2025	20:28	PP071164.D	10.24	4.52
I.BLK	I.BLK	04/08/2025	22:05	PP071168.D	10.24	4.52

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/18/2025 03/18/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/18/2025	13:44	PO109971.D	8.70	3.69
AR1660ICC1000	AR1660ICC1000	03/18/2025	14:03	PO109972.D	8.70	3.69
AR1660ICC750	AR1660ICC750	03/18/2025	14:21	PO109973.D	8.70	3.69
AR1660ICC500	AR1660ICC500	03/18/2025	14:39	PO109974.D	8.70	3.69
AR1660ICC250	AR1660ICC250	03/18/2025	14:58	PO109975.D	8.70	3.69
AR1660ICC050	AR1660ICC050	03/18/2025	15:16	PO109976.D	8.70	3.69
AR1221ICC500	AR1221ICC500	03/18/2025	15:34	PO109977.D	8.70	3.69
AR1232ICC500	AR1232ICC500	03/18/2025	15:53	PO109978.D	8.70	3.69
AR1242ICC1000	AR1242ICC1000	03/18/2025	16:11	PO109979.D	8.70	3.69
AR1242ICC750	AR1242ICC750	03/18/2025	16:30	PO109980.D	8.70	3.69
AR1242ICC500	AR1242ICC500	03/18/2025	16:48	PO109981.D	8.70	3.69
AR1242ICC250	AR1242ICC250	03/18/2025	17:06	PO109982.D	8.70	3.69
AR1242ICC050	AR1242ICC050	03/18/2025	17:25	PO109983.D	8.70	3.69
AR1248ICC1000	AR1248ICC1000	03/18/2025	17:42	PO109984.D	8.70	3.69
AR1248ICC750	AR1248ICC750	03/18/2025	18:00	PO109985.D	8.70	3.69
AR1248ICC500	AR1248ICC500	03/18/2025	18:19	PO109986.D	8.70	3.69
AR1248ICC250	AR1248ICC250	03/18/2025	18:37	PO109987.D	8.70	3.69
AR1248ICC050	AR1248ICC050	03/18/2025	18:54	PO109988.D	8.70	3.69
AR1254ICC1000	AR1254ICC1000	03/18/2025	19:13	PO109989.D	8.69	3.69
AR1254ICC750	AR1254ICC750	03/18/2025	19:31	PO109990.D	8.70	3.69
AR1254ICC500	AR1254ICC500	03/18/2025	19:49	PO109991.D	8.70	3.69
AR1254ICC250	AR1254ICC250	03/18/2025	20:07	PO109992.D	8.70	3.69
AR1254ICC050	AR1254ICC050	03/18/2025	20:25	PO109993.D	8.69	3.69
AR1262ICC500	AR1262ICC500	03/18/2025	20:43	PO109994.D	8.70	3.69
AR1268ICC1000	AR1268ICC1000	03/18/2025	21:02	PO109995.D	8.70	3.69
AR1268ICC750	AR1268ICC750	03/18/2025	21:20	PO109996.D	8.70	3.69
AR1268ICC500	AR1268ICC500	03/18/2025	21:39	PO109997.D	8.69	3.69
AR1268ICC250	AR1268ICC250	03/18/2025	21:57	PO109998.D	8.70	3.69
AR1268ICC050	AR1268ICC050	03/18/2025	22:15	PO109999.D	8.70	3.69
AR1660CCC500	AR1660CCC500	04/08/2025	12:58	PO110302.D	8.69	3.69
I.BLK	I.BLK	04/08/2025	14:12	PO110306.D	8.69	3.69
PB167515BL	PB167515BL	04/08/2025	14:30	PO110307.D	8.69	3.69
PB167515BS	PB167515BS	04/08/2025	14:49	PO110308.D	8.69	3.69
PB167515BSD	PB167515BSD	04/08/2025	15:07	PO110309.D	8.69	3.69
B-158-GW01	Q1746-05	04/08/2025	15:44	PO110311.D	8.69	3.69
B-149-GW01	Q1746-06	04/08/2025	16:02	PO110312.D	8.69	3.69
EB-2025-4-7	Q1746-07	04/08/2025	16:20	PO110313.D	8.69	3.69
AR1660CCC500	AR1660CCC500	04/08/2025	17:54	PO110315.D	8.69	3.69
I.BLK	I.BLK	04/08/2025	19:43	PO110319.D	8.69	3.69
I.BLK	I.BLK	03/27/2025	10:14	PP070916.D	8.86	3.82
AR1660ICC1000	AR1660ICC1000	03/27/2025	10:30	PP070917.D	8.86	3.82
AR1660ICC750	AR1660ICC750	03/27/2025	10:47	PP070918.D	8.86	3.82

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Analytical Sequence

AR1660ICC500	AR1660ICC500	03/27/2025	11:03	PP070919.D	8.86	3.82
AR1660ICC250	AR1660ICC250	03/27/2025	11:19	PP070920.D	8.86	3.82
AR1660ICC050	AR1660ICC050	03/27/2025	11:35	PP070921.D	8.86	3.82
AR1221ICC500	AR1221ICC500	03/27/2025	11:52	PP070922.D	8.86	3.82
AR1232ICC500	AR1232ICC500	03/27/2025	12:11	PP070923.D	8.86	3.82
AR1242ICC1000	AR1242ICC1000	03/27/2025	12:28	PP070924.D	8.86	3.82
AR1242ICC750	AR1242ICC750	03/27/2025	12:44	PP070925.D	8.86	3.82
AR1242ICC500	AR1242ICC500	03/27/2025	13:00	PP070926.D	8.86	3.82
AR1242ICC250	AR1242ICC250	03/27/2025	13:16	PP070927.D	8.86	3.82
AR1242ICC050	AR1242ICC050	03/27/2025	13:33	PP070928.D	8.86	3.82
AR1248ICC1000	AR1248ICC1000	03/27/2025	13:49	PP070929.D	8.86	3.82
AR1248ICC750	AR1248ICC750	03/27/2025	14:05	PP070930.D	8.86	3.82
AR1248ICC500	AR1248ICC500	03/27/2025	14:22	PP070931.D	8.86	3.82
AR1248ICC250	AR1248ICC250	03/27/2025	14:38	PP070932.D	8.86	3.82
AR1248ICC050	AR1248ICC050	03/27/2025	14:55	PP070933.D	8.86	3.82
AR1254ICC1000	AR1254ICC1000	03/27/2025	15:11	PP070934.D	8.86	3.82
AR1254ICC750	AR1254ICC750	03/27/2025	15:27	PP070935.D	8.86	3.82
AR1254ICC500	AR1254ICC500	03/27/2025	15:43	PP070936.D	8.86	3.82
AR1254ICC250	AR1254ICC250	03/27/2025	16:00	PP070937.D	8.86	3.82
AR1254ICC050	AR1254ICC050	03/27/2025	16:16	PP070938.D	8.86	3.82
AR1262ICC500	AR1262ICC500	03/27/2025	16:32	PP070939.D	8.86	3.82
AR1268ICC1000	AR1268ICC1000	03/27/2025	16:48	PP070940.D	8.86	3.82
AR1268ICC750	AR1268ICC750	03/27/2025	17:05	PP070941.D	8.86	3.82
AR1268ICC500	AR1268ICC500	03/27/2025	17:21	PP070942.D	8.86	3.82
AR1268ICC250	AR1268ICC250	03/27/2025	17:37	PP070943.D	8.86	3.82
AR1268ICC050	AR1268ICC050	03/27/2025	17:53	PP070944.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	09:37	PP071136.D	8.86	3.82
I.BLK	I.BLK	04/08/2025	11:05	PP071140.D	8.86	3.82
TR-06-040725MS	Q1742-01MS	04/08/2025	13:41	PP071147.D	8.86	3.82
TR-06-040725MSD	Q1742-01MSD	04/08/2025	13:57	PP071148.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	15:29	PP071151.D	8.86	3.82
I.BLK	I.BLK	04/08/2025	16:51	PP071155.D	8.86	3.82
PB167507BL	PB167507BL	04/08/2025	17:07	PP071156.D	8.86	3.82
PB167507BS	PB167507BS	04/08/2025	17:23	PP071157.D	8.86	3.82
B-149-SB01	Q1746-01	04/08/2025	18:28	PP071161.D	8.86	3.82
B-149-SB02	Q1746-03	04/08/2025	18:45	PP071162.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	20:28	PP071164.D	8.86	3.82
I.BLK	I.BLK	04/08/2025	22:05	PP071168.D	8.86	3.82

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB167515BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: PB167515BS Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO110308.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.782	4.732	4.832	4.25		
	2	4.801	4.751	4.851	4.33		
	3	4.858	4.808	4.908	4.29		
COLUMN 1	4	4.978	4.928	5.028	4.29		
	5	5.236	5.186	5.286	4.13	4.30	
	1	4.768	4.718	4.818	4.08		
	2	4.787	4.737	4.837	4.07		
	3	4.963	4.913	5.013	4.06		
	4	5.005	4.955	5.055	4.03		
COLUMN 2	5	5.218	5.168	5.268	3.91	4.00	7.23
Aroclor-1260	1	6.277	6.227	6.327	4.62		
	2	6.466	6.416	6.516	4.45		
	3	6.833	6.783	6.883	3.92		
COLUMN 1	4	7.094	7.044	7.144	4.18		
	5	7.336	7.286	7.386	3.98	4.20	
	1	6.25	6.2	6.3	4.23		
	2	6.438	6.388	6.488	4.15		
	3	6.59	6.54	6.64	4.03		
	4	7.062	7.012	7.112	3.68		
COLUMN 2	5	7.303	7.253	7.353	3.48	3.90	7.41

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: PB167515BSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: PB167515BSD Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO110309.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.782	4.732	4.832	4.20		
	2	4.801	4.751	4.851	4.18		
	3	4.858	4.808	4.908	4.19		
COLUMN 1	4	4.978	4.928	5.028	4.20		
	5	5.235	5.185	5.285	4.03	4.20	
	1	4.768	4.718	4.818	3.99		
	2	4.788	4.738	4.838	3.96		
	3	4.963	4.913	5.013	3.97		
	4	5.005	4.955	5.055	3.95		
COLUMN 2	5	5.218	5.168	5.268	3.83	3.90	7.41
Aroclor-1260	1	6.276	6.226	6.326	4.50		
	2	6.465	6.415	6.515	4.33		
	3	6.832	6.782	6.882	3.84		
COLUMN 1	4	7.093	7.043	7.143	4.08		
	5	7.335	7.285	7.385	3.87	4.10	
	1	6.25	6.2	6.3	4.11		
	2	6.438	6.388	6.488	4.04		
	3	6.59	6.54	6.64	3.93		
	4	7.062	7.012	7.112	3.59		
COLUMN 2	5	7.302	7.252	7.352	3.39	3.80	7.59

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TR-06-040725MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: Q1742-01MS Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071147.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.67	5.62	5.72	172		
	2	5.692	5.642	5.742	160		
	3	5.754	5.704	5.804	165		
COLUMN 1	4	5.852	5.802	5.902	214		
	5	6.145	6.095	6.195	170	176	
	1	4.902	4.852	4.952	167		
	2	4.921	4.871	4.971	160		
	3	5.097	5.047	5.147	171		
	4	5.14	5.09	5.19	176		
COLUMN 2	5	5.354	5.304	5.404	170	169	4.06
Aroclor-1260	1	7.265	7.215	7.315	215		
	2	7.519	7.469	7.569	213		
	3	7.878	7.828	7.928	163		
COLUMN 1	4	8.103	8.053	8.153	175		
	5	8.423	8.373	8.473	176	188	
	1	6.39	6.34	6.44	196		
	2	6.579	6.529	6.629	188		
	3	6.732	6.682	6.782	191		
	4	7.204	7.154	7.254	156		
COLUMN 2	5	7.445	7.395	7.495	143	175	7.16

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TR-06-040725MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: Q1742-01MSD Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071148.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.673	5.623	5.723	169		
	2	5.695	5.645	5.745	157		
	3	5.758	5.708	5.808	162		
COLUMN 1	4	5.855	5.805	5.905	210		
	5	6.148	6.098	6.198	164	172	
	1	4.902	4.852	4.952	171		
	2	4.921	4.871	4.971	164		
	3	5.098	5.048	5.148	175		
	4	5.14	5.09	5.19	182		
COLUMN 2	5	5.355	5.305	5.405	174	173	0.58
Aroclor-1260	1	7.269	7.219	7.319	207		
	2	7.522	7.472	7.572	200		
	3	7.881	7.831	7.931	152		
COLUMN 1	4	8.106	8.056	8.156	161		
	5	8.426	8.376	8.476	165	177	
	1	6.391	6.341	6.441	188		
	2	6.579	6.529	6.629	181		
	3	6.733	6.683	6.783	183		
	4	7.205	7.155	7.255	146		
COLUMN 2	5	7.445	7.395	7.495	137	167	5.81

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB167507BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: PB167507BS Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071157.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.672	5.622	5.722	178		
	2	5.694	5.644	5.744	179		
	3	5.757	5.707	5.807	178		
COLUMN 1	4	5.854	5.804	5.904	189		
	5	6.147	6.097	6.197	184	181	
	1	4.902	4.852	4.952	170		
	2	4.92	4.87	4.97	166		
	3	5.098	5.048	5.148	176		
	4	5.139	5.089	5.189	189		
COLUMN 2	5	5.354	5.304	5.404	179	176	2.8
Aroclor-1260	1	7.267	7.217	7.317	189		
	2	7.521	7.471	7.571	199		
	3	7.88	7.83	7.93	159		
COLUMN 1	4	8.105	8.055	8.155	162		
	5	8.425	8.375	8.475	158	173	
	1	6.39	6.34	6.44	205		
	2	6.578	6.528	6.628	202		
	3	6.731	6.681	6.781	209		
	4	7.203	7.153	7.253	169		
COLUMN 2	5	7.445	7.395	7.495	156	188	8.31

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 18:28
Operator : YP\AJ
Sample : Q1746-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-149-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:26:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.517	3.815	35334622	25312269	24.176	24.418
2)	SA Decachlor...	10.244	8.858	24335208	16591423	23.119	21.050
	Target Compounds						

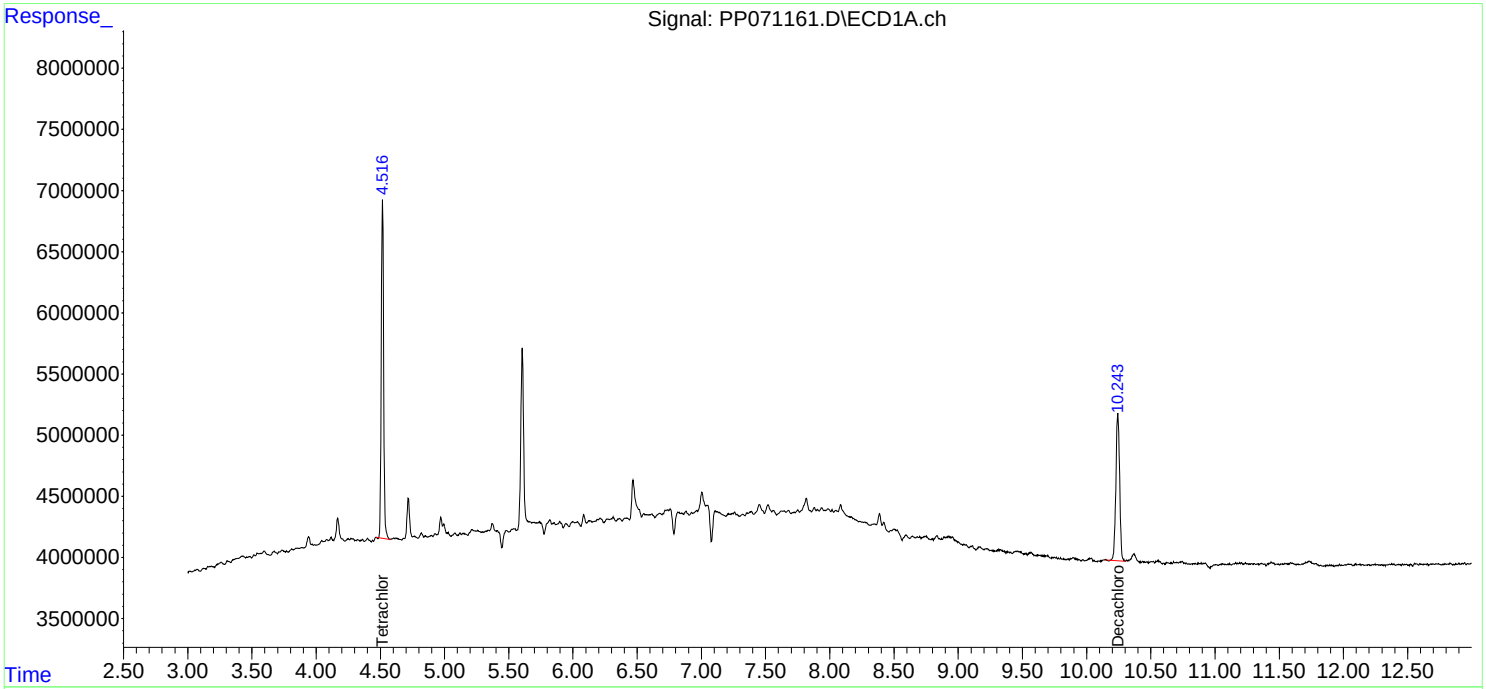
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

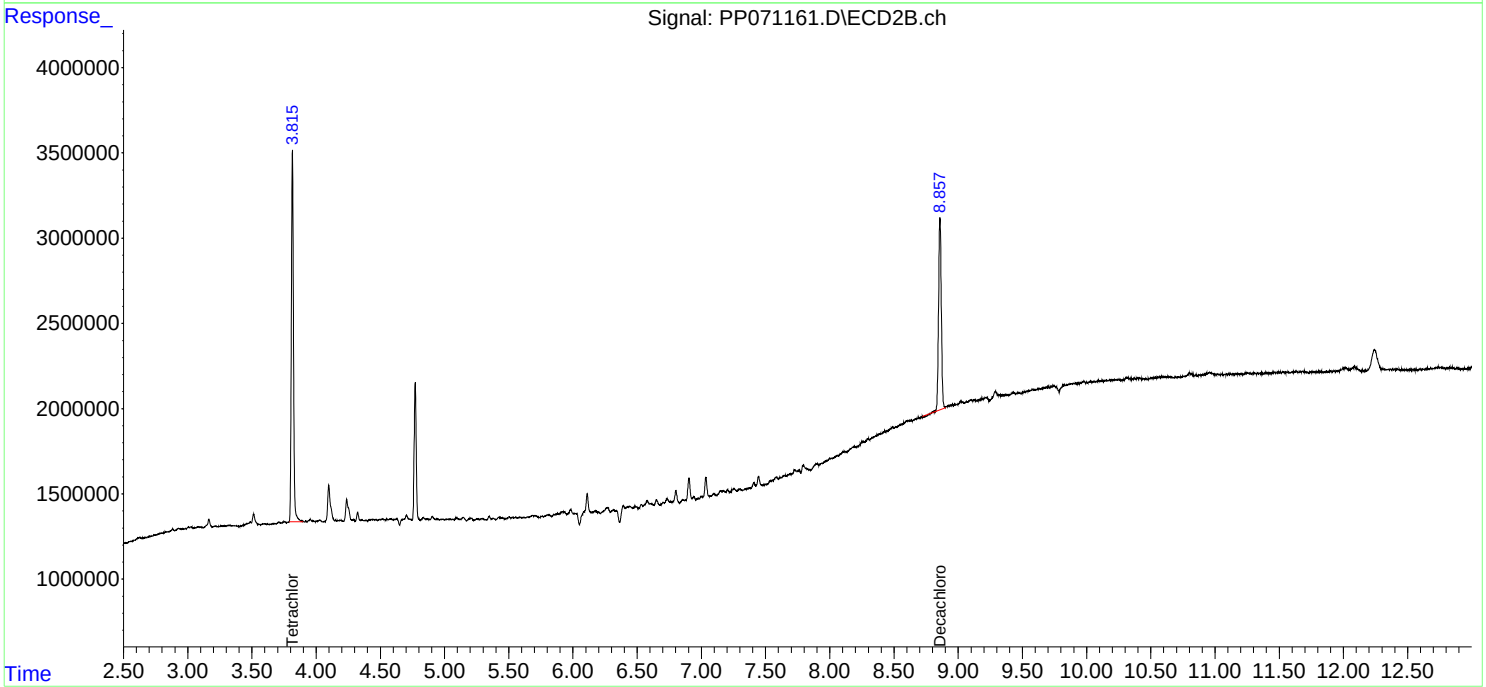
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 18:28
Operator : YP\AJ
Sample : Q1746-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

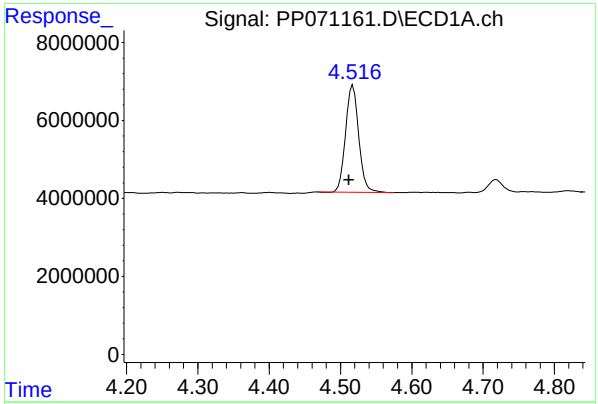
Instrument :
ECD_P
ClientSampleId :
B-149-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:26:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



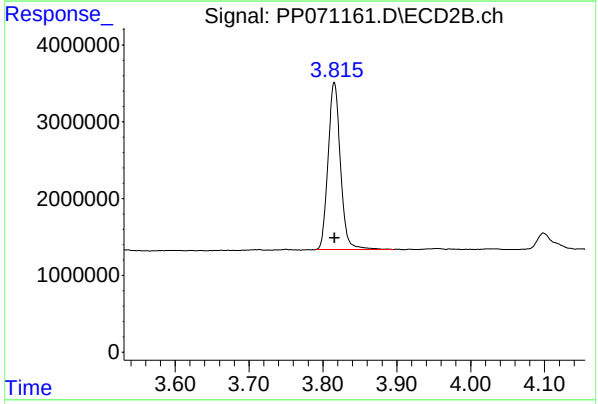




#1 Tetrachloro-m-xylene

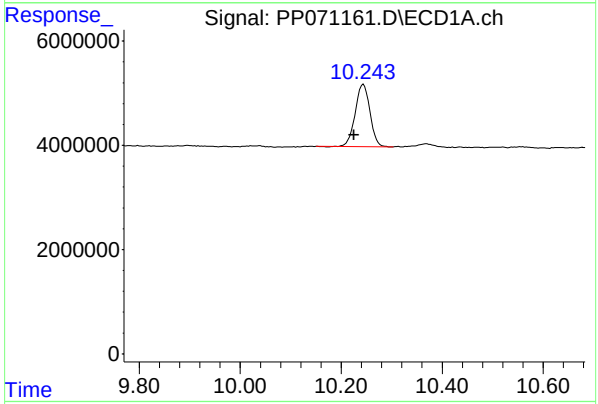
R.T.: 4.517 min
Delta R.T.: 0.005 min
Response: 35334622
Conc: 24.18 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-149-SB01



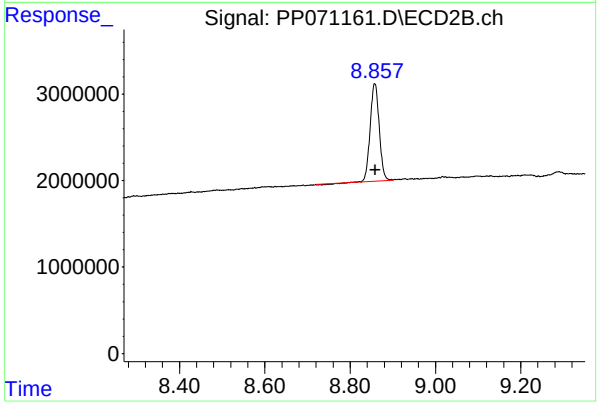
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 25312269
Conc: 24.42 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.244 min
Delta R.T.: 0.019 min
Response: 24335208
Conc: 23.12 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.858 min
Delta R.T.: -0.001 min
Response: 16591423
Conc: 21.05 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071162.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 18:45
Operator : YP\AJ
Sample : Q1746-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-149-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:26:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.515	3.815	41188063	27979106	28.181	26.990
2)	SA Decachlor...	10.240	8.856	23310242	15776889	22.145	20.016
	Target Compounds						

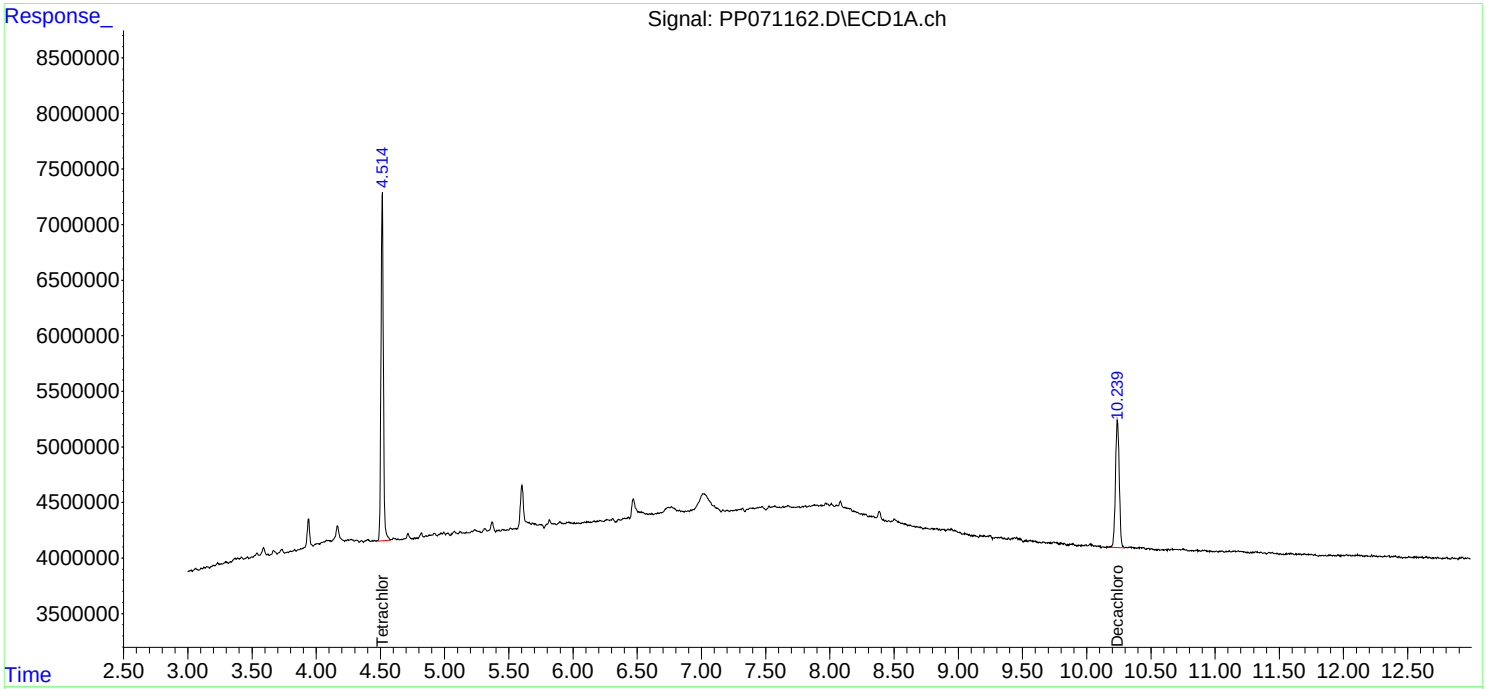
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

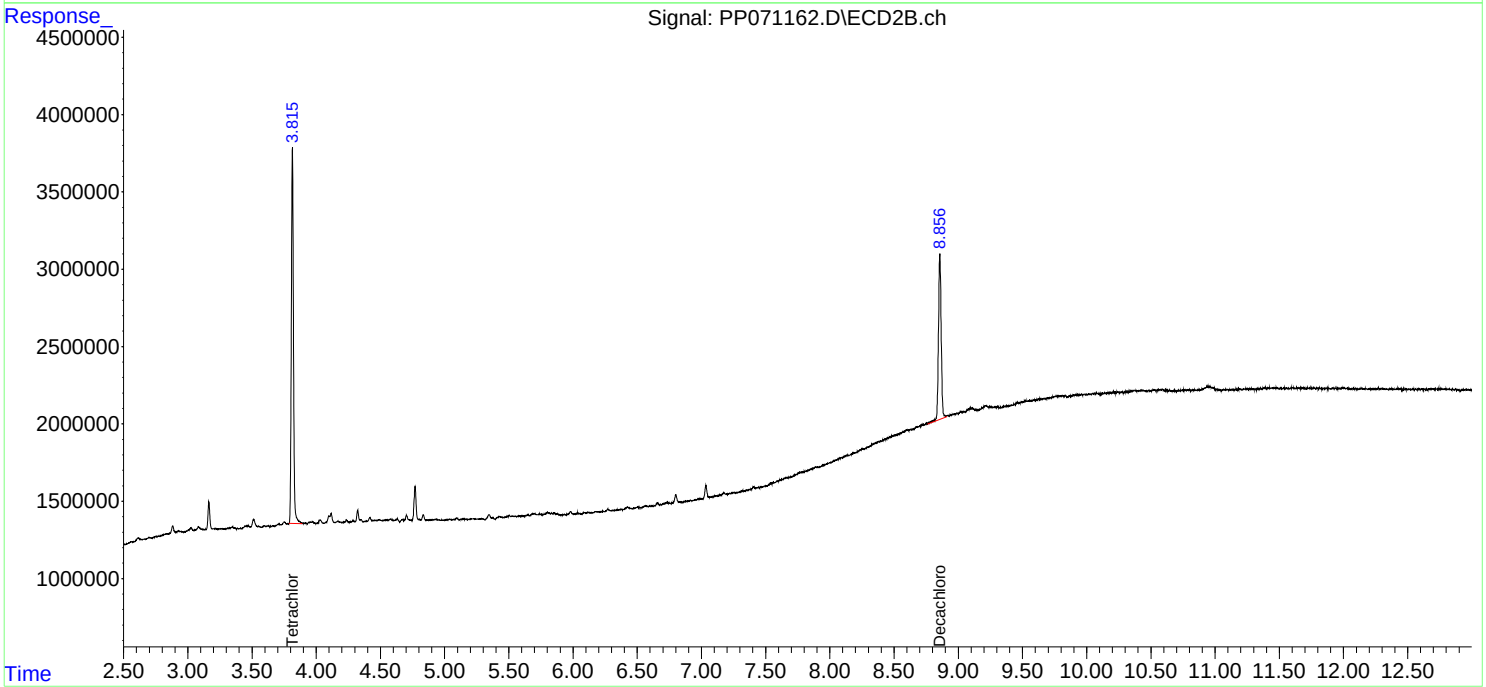
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071162.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 18:45
Operator : YP\AJ
Sample : Q1746-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

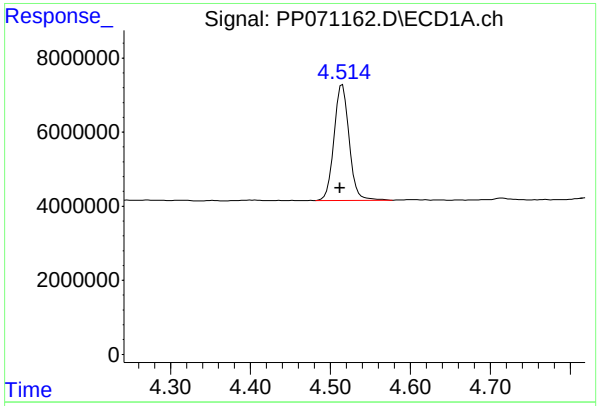
Instrument :
ECD_P
ClientSampleId :
B-149-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:26:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



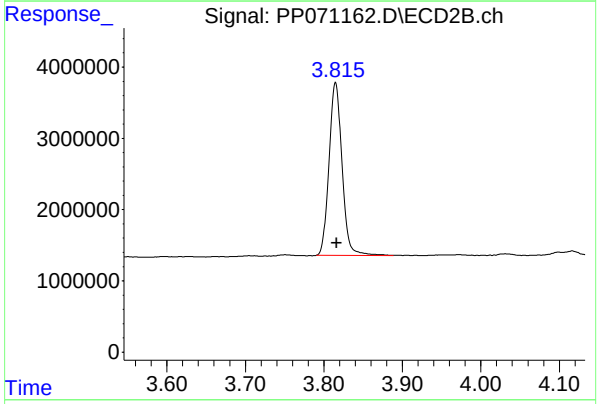




#1 Tetrachloro-m-xylene

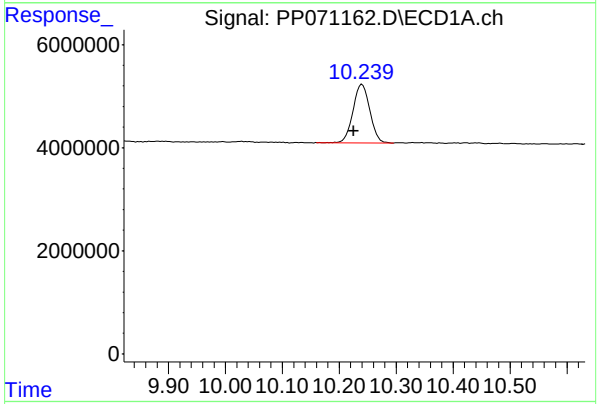
R.T.: 4.515 min
Delta R.T.: 0.003 min
Response: 41188063
Conc: 28.18 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-149-SB02



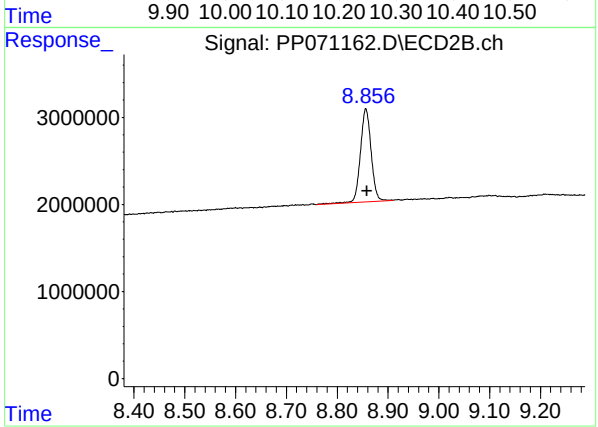
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: -0.001 min
Response: 27979106
Conc: 26.99 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.240 min
Delta R.T.: 0.015 min
Response: 23310242
Conc: 22.15 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.856 min
Delta R.T.: -0.002 min
Response: 15776889
Conc: 20.02 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110311.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 15:44
Operator : YP/AJ
Sample : Q1746-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
B-158-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.691	3.688	141.5E6	77895135	15.552	14.854
2)	SA Decachlor...	8.740	8.690	66444254	17519725	8.642	7.221
	Target Compounds						

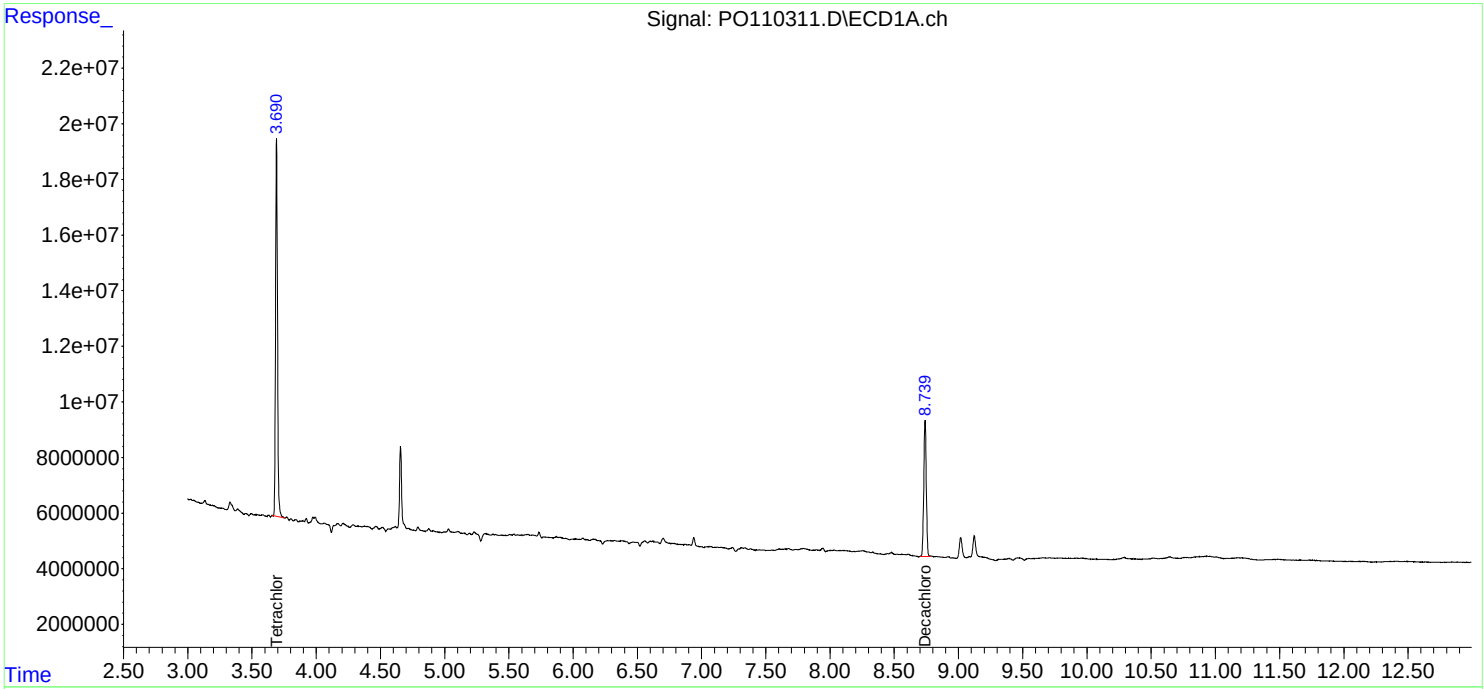
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

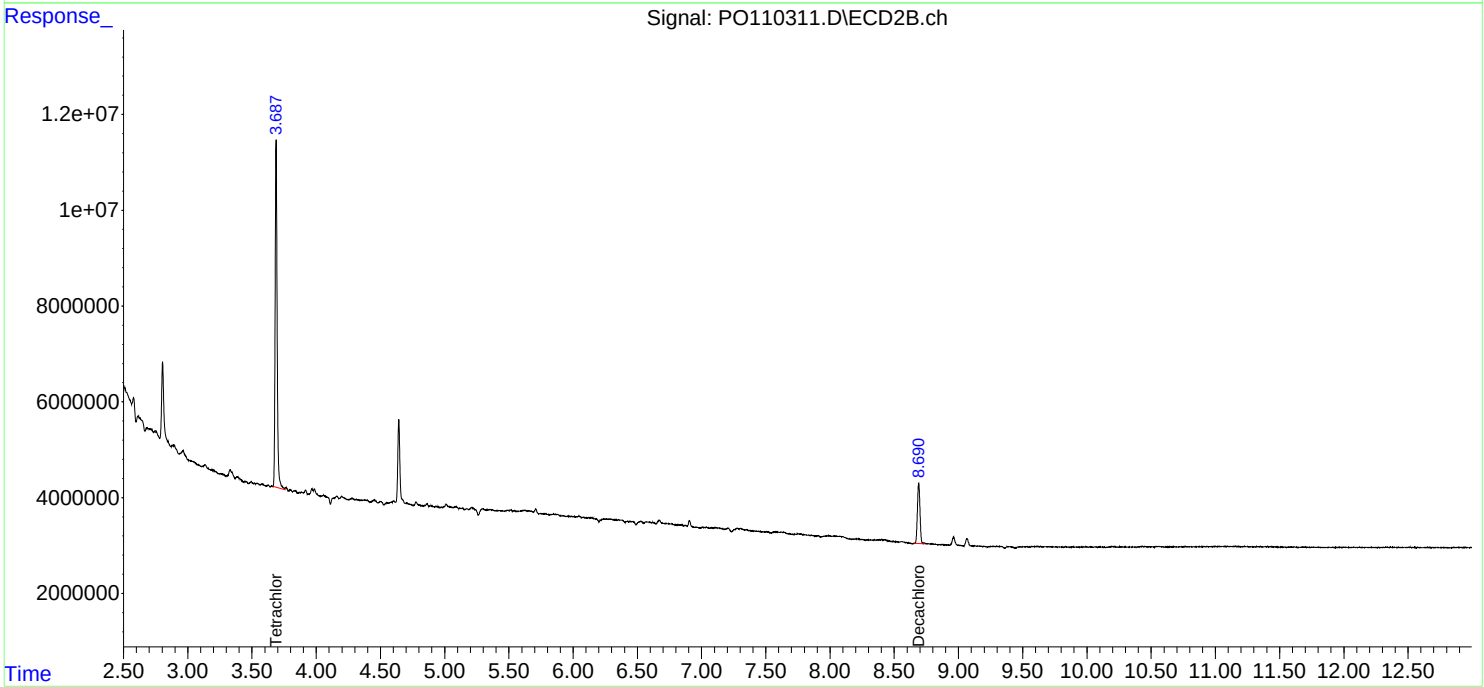
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110311.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 15:44
Operator : YP/AJ
Sample : Q1746-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

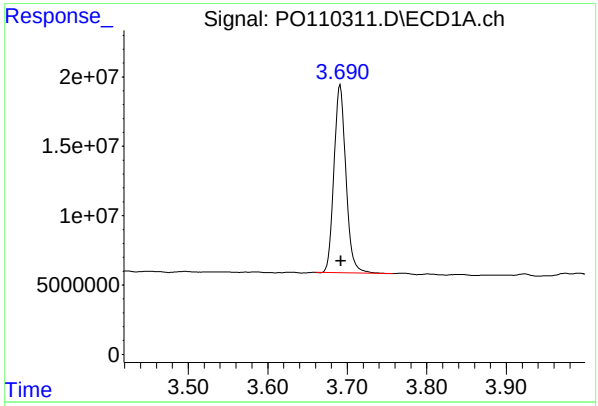
Instrument :
ECD_O
ClientSampleId :
B-158-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



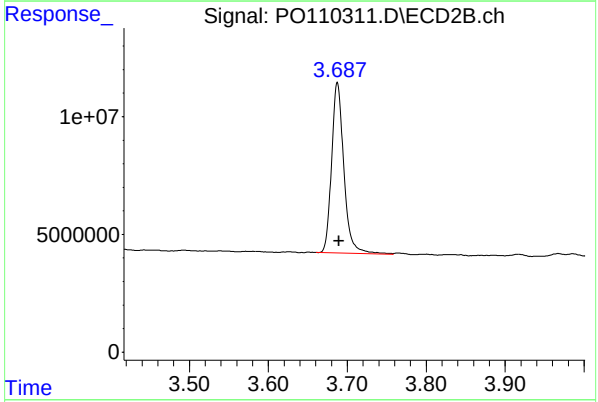




#1 Tetrachloro-m-xylene

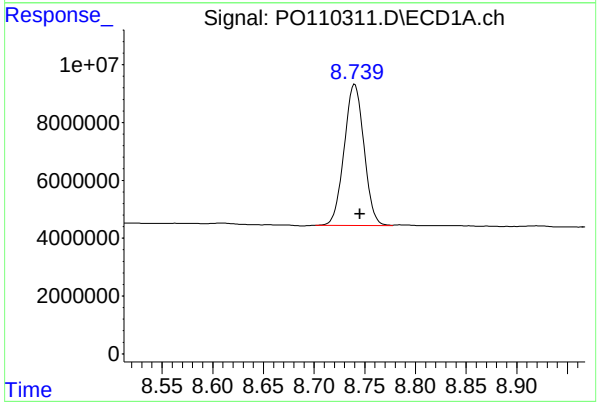
R.T.: 3.691 min
Delta R.T.: 0.000 min
Response: 141543072
Conc: 15.55 ng/ml

Instrument :
ECD_O
ClientSampleId :
B-158-GW01



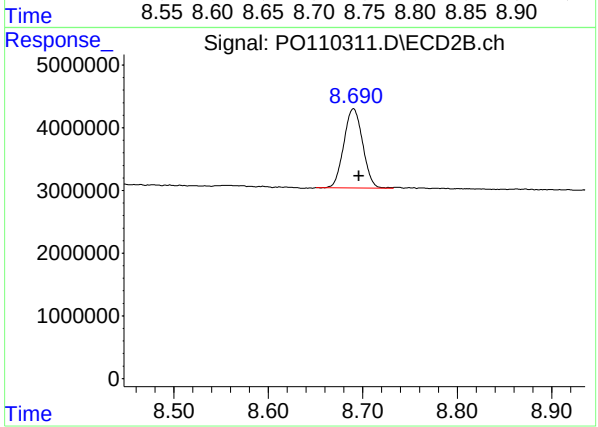
#1 Tetrachloro-m-xylene

R.T.: 3.688 min
Delta R.T.: -0.002 min
Response: 77895135
Conc: 14.85 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.740 min
Delta R.T.: -0.005 min
Response: 66444254
Conc: 8.64 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.690 min
Delta R.T.: -0.006 min
Response: 17519725
Conc: 7.22 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110312.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 16:02
Operator : YP/AJ
Sample : Q1746-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
B-149-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:23:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.691	3.688	158.7E6	89758888	17.435	17.116
2)	SA Decachlor...	8.741	8.690	121.2E6	30968699	15.762	12.765
	Target Compounds						

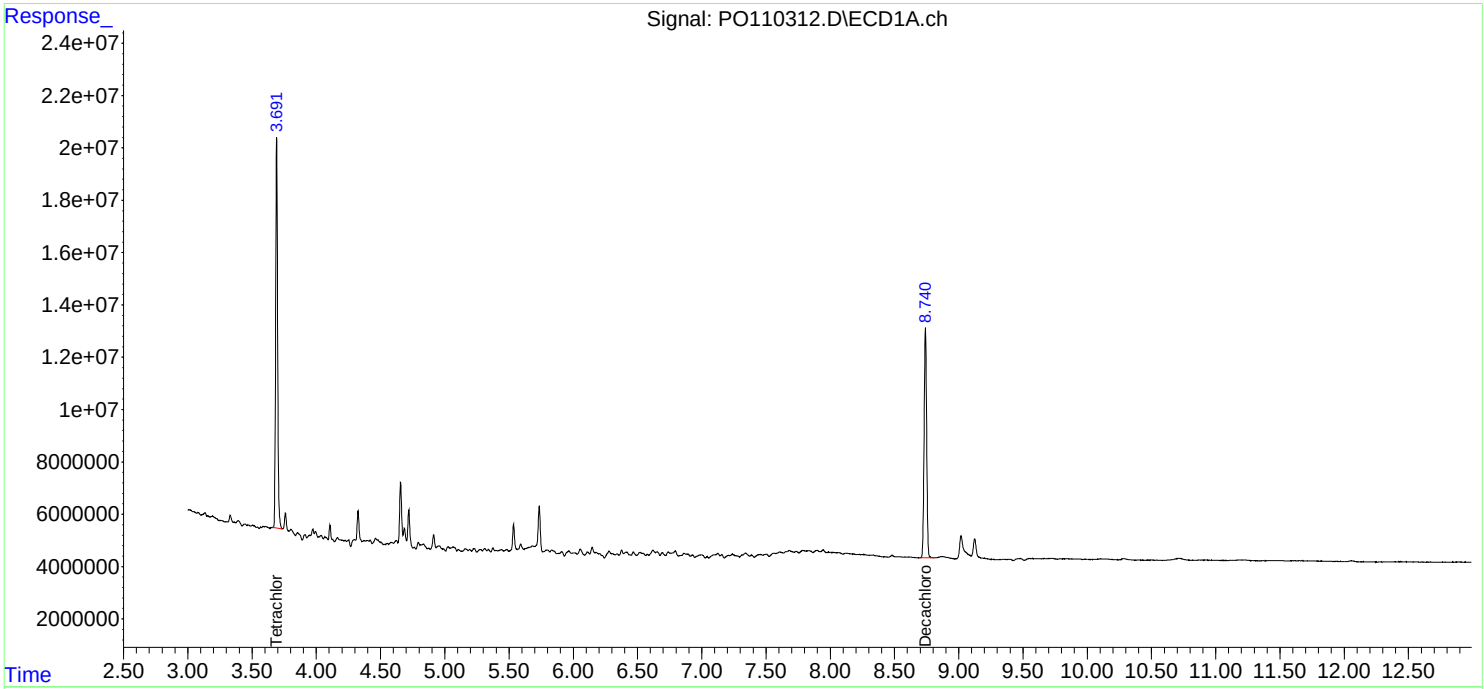
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

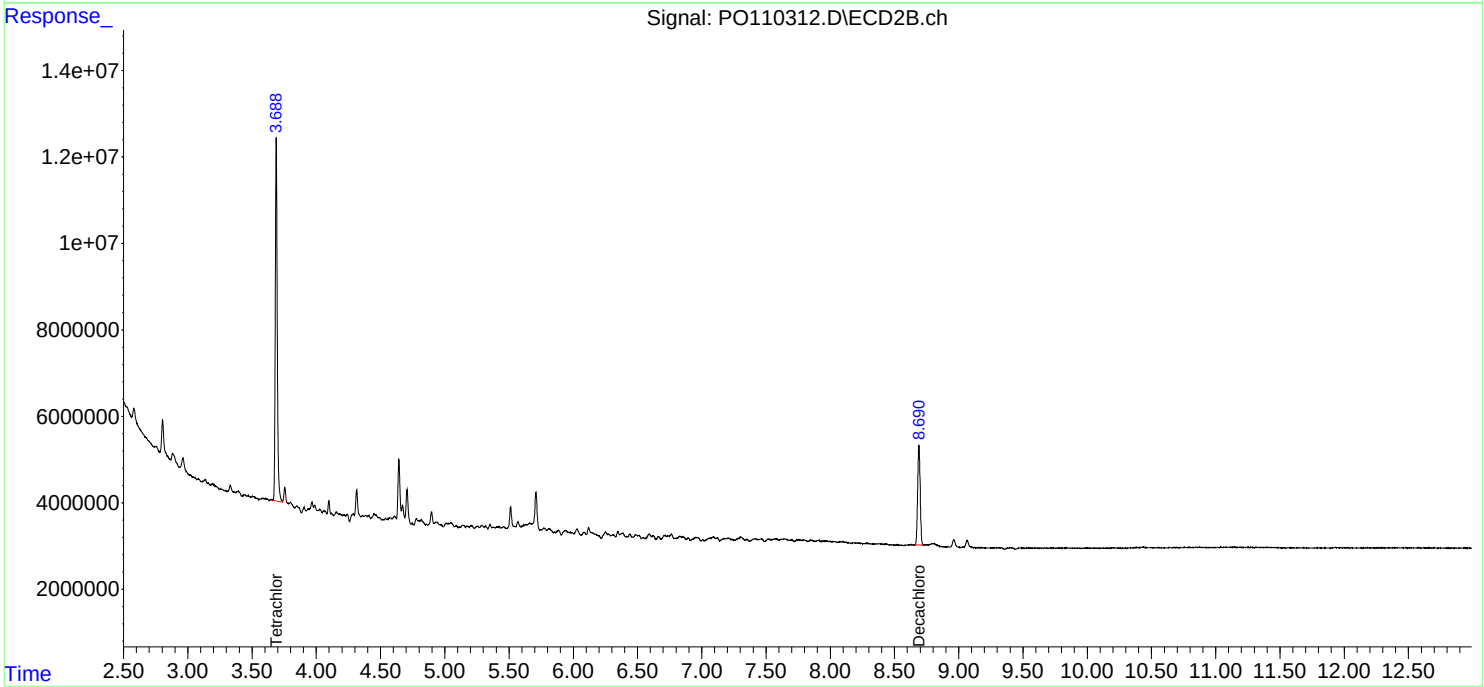
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110312.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 16:02
Operator : YP/AJ
Sample : Q1746-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

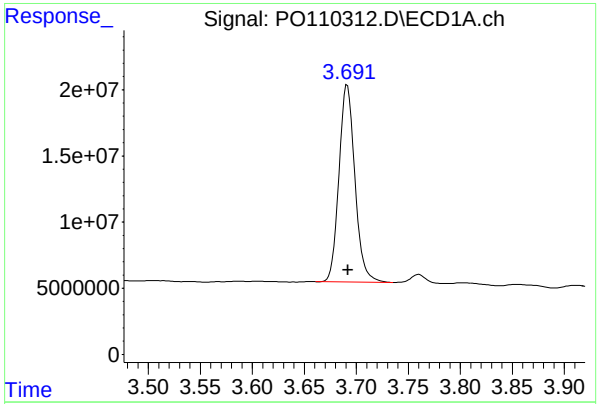
Instrument :
ECD_O
ClientSampleId :
B-149-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:23:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



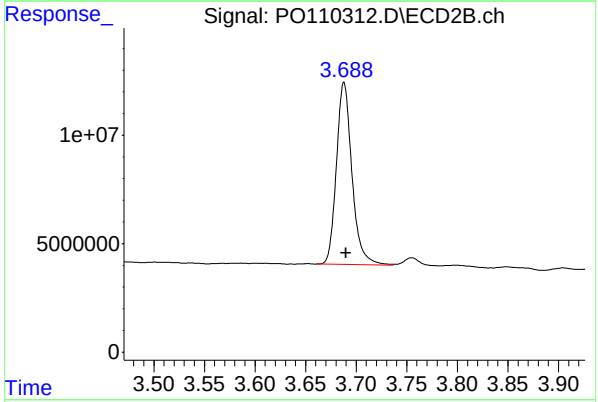




#1 Tetrachloro-m-xylene

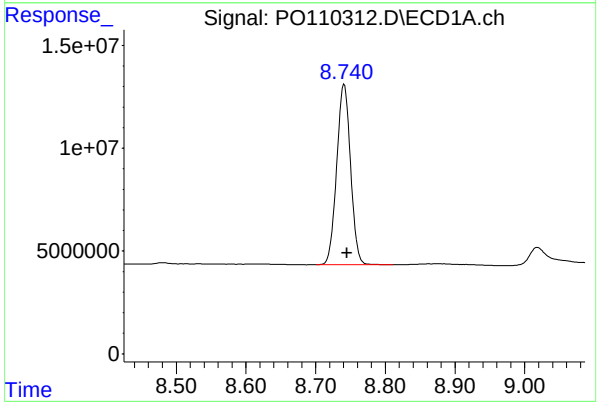
R.T.: 3.691 min
Delta R.T.: 0.000 min
Response: 158684801
Conc: 17.44 ng/ml

Instrument :
ECD_O
ClientSampleId :
B-149-GW01



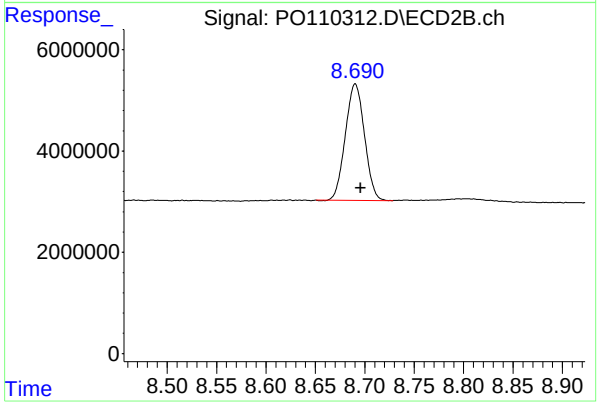
#1 Tetrachloro-m-xylene

R.T.: 3.688 min
Delta R.T.: -0.002 min
Response: 89758888
Conc: 17.12 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.741 min
Delta R.T.: -0.004 min
Response: 121190496
Conc: 15.76 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.690 min
Delta R.T.: -0.005 min
Response: 30968699
Conc: 12.76 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110313.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 16:20
Operator : YP/AJ
Sample : Q1746-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
EB-2025-4-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.690	3.687	145.3E6	80671303	15.965	15.383
2)	SA Decachlor...	8.739	8.690	81902507	21714232	10.652	8.950
	Target Compounds						

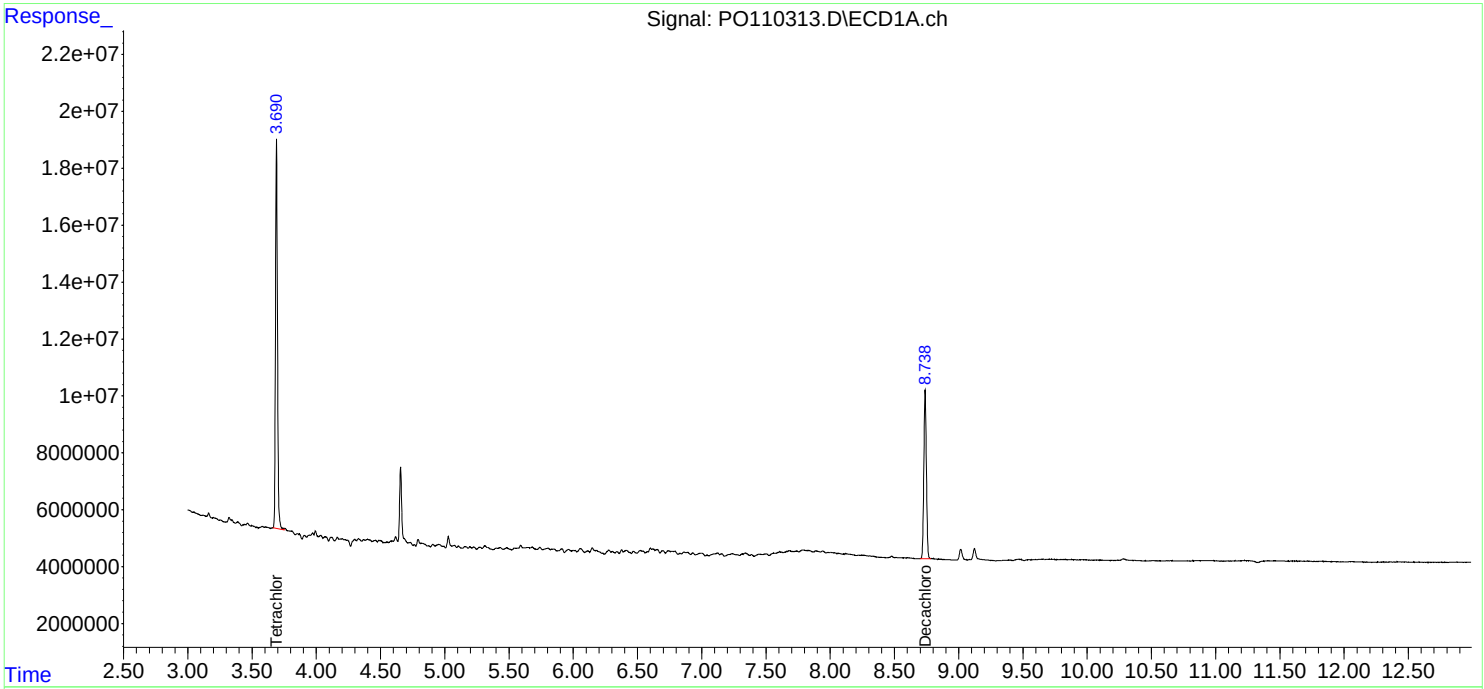
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

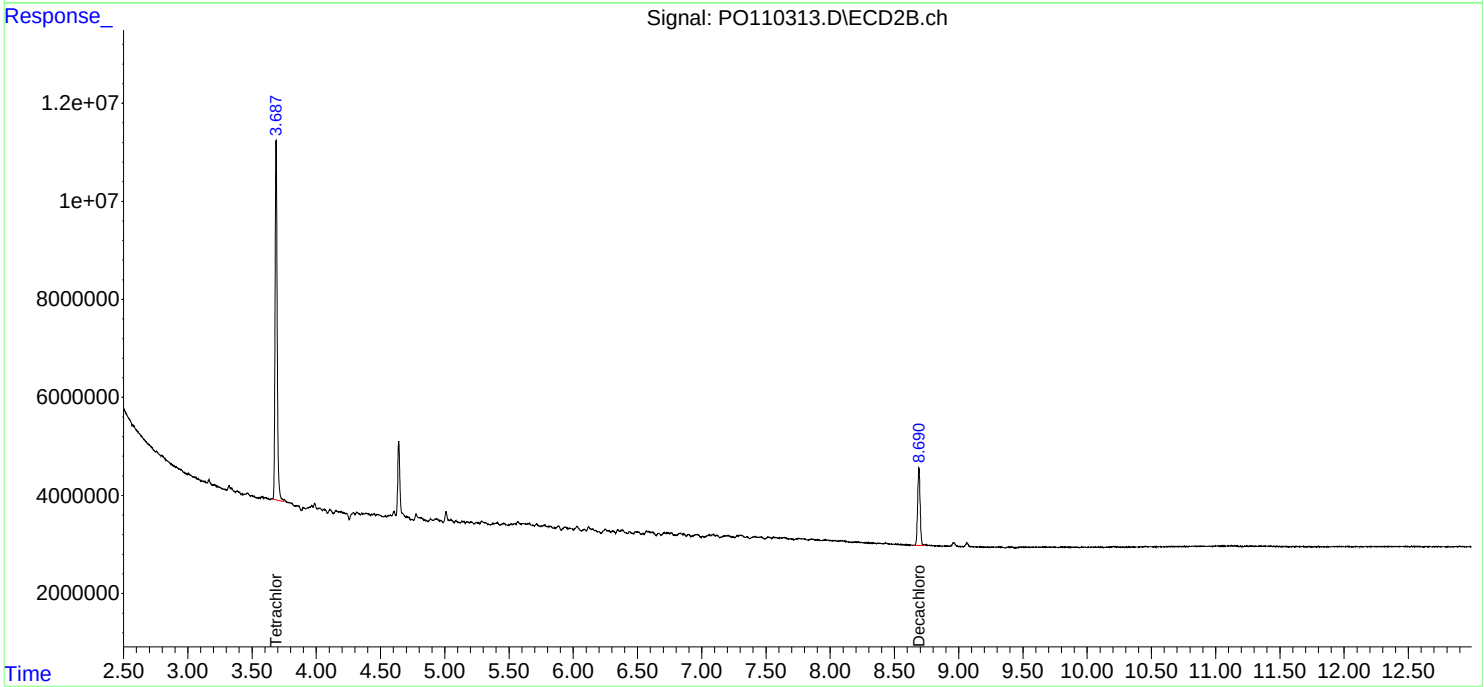
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110313.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 16:20
Operator : YP/AJ
Sample : Q1746-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

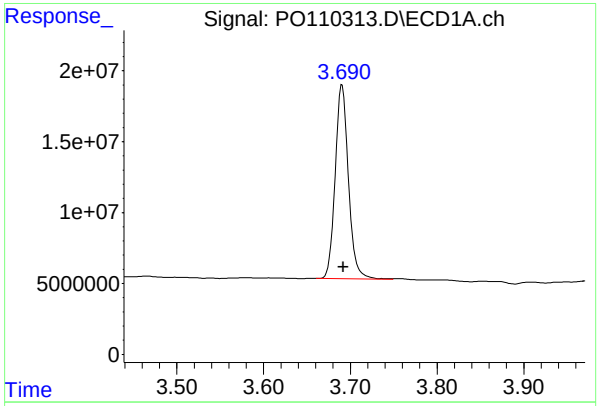
Instrument :
ECD_O
ClientSampleId :
EB-2025-4-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



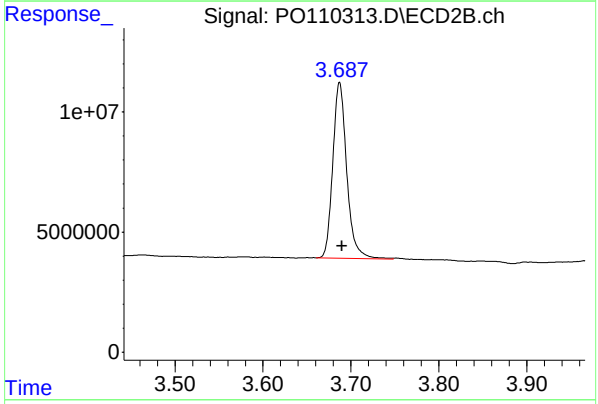




#1 Tetrachloro-m-xylene

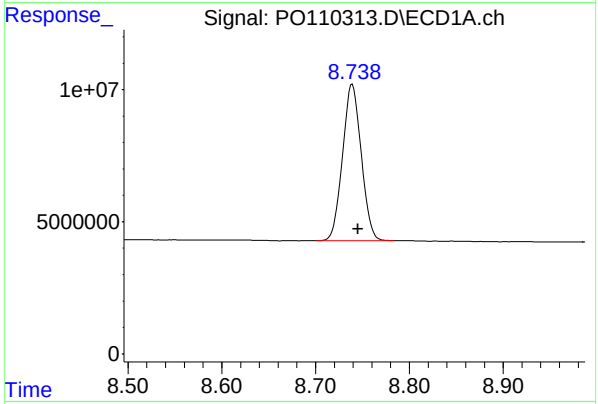
R.T.: 3.690 min
Delta R.T.: -0.002 min
Response: 145305613
Conc: 15.97 ng/ml

Instrument :
ECD_O
ClientSampleId :
EB-2025-4-7



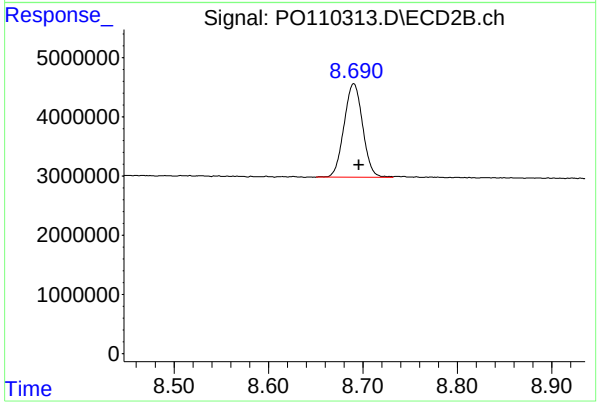
#1 Tetrachloro-m-xylene

R.T.: 3.687 min
Delta R.T.: -0.003 min
Response: 80671303
Conc: 15.38 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.739 min
Delta R.T.: -0.006 min
Response: 81902507
Conc: 10.65 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.690 min
Delta R.T.: -0.005 min
Response: 21714232
Conc: 8.95 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:07
Operator : YP\AJ
Sample : PB167507BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.516	3.816	38682818	28677374	26.467	27.664
2)	SA Decachlor...	10.242	8.858	27306872	18887758	25.942	23.963
	Target Compounds						

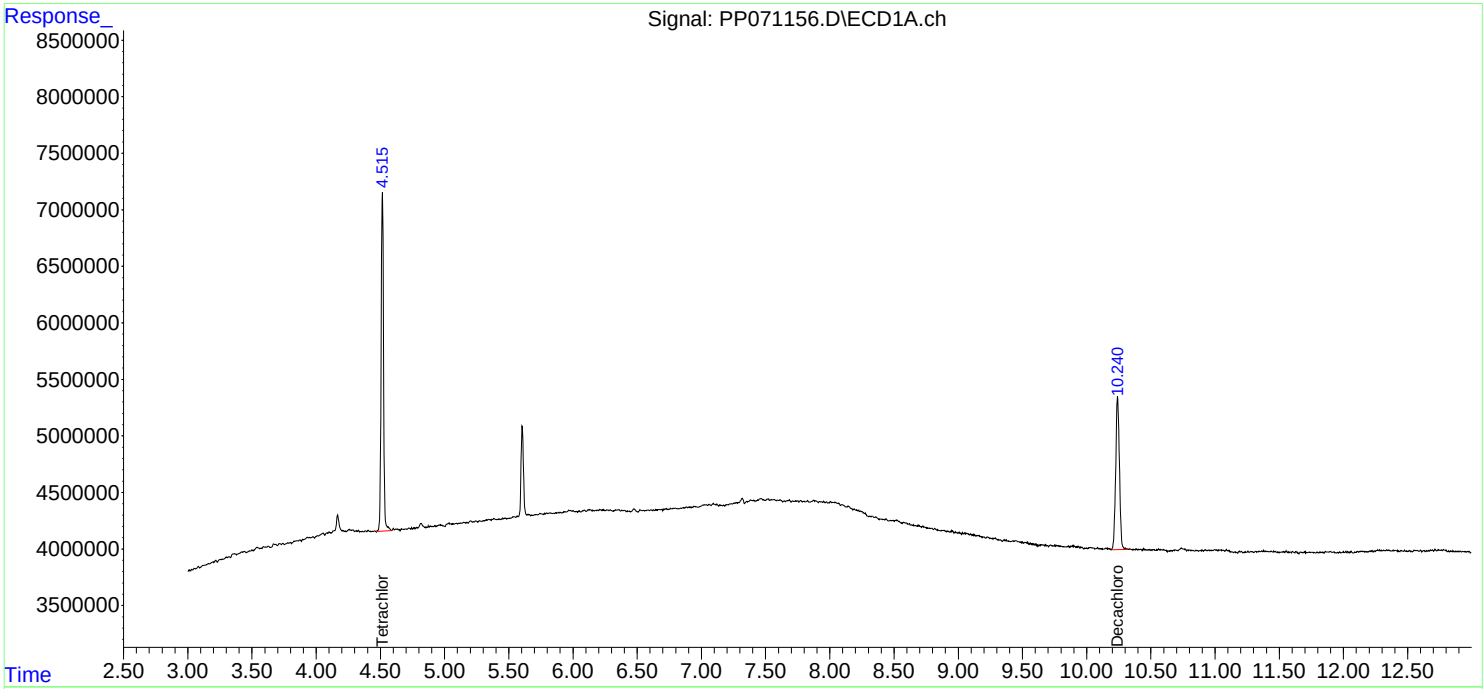
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

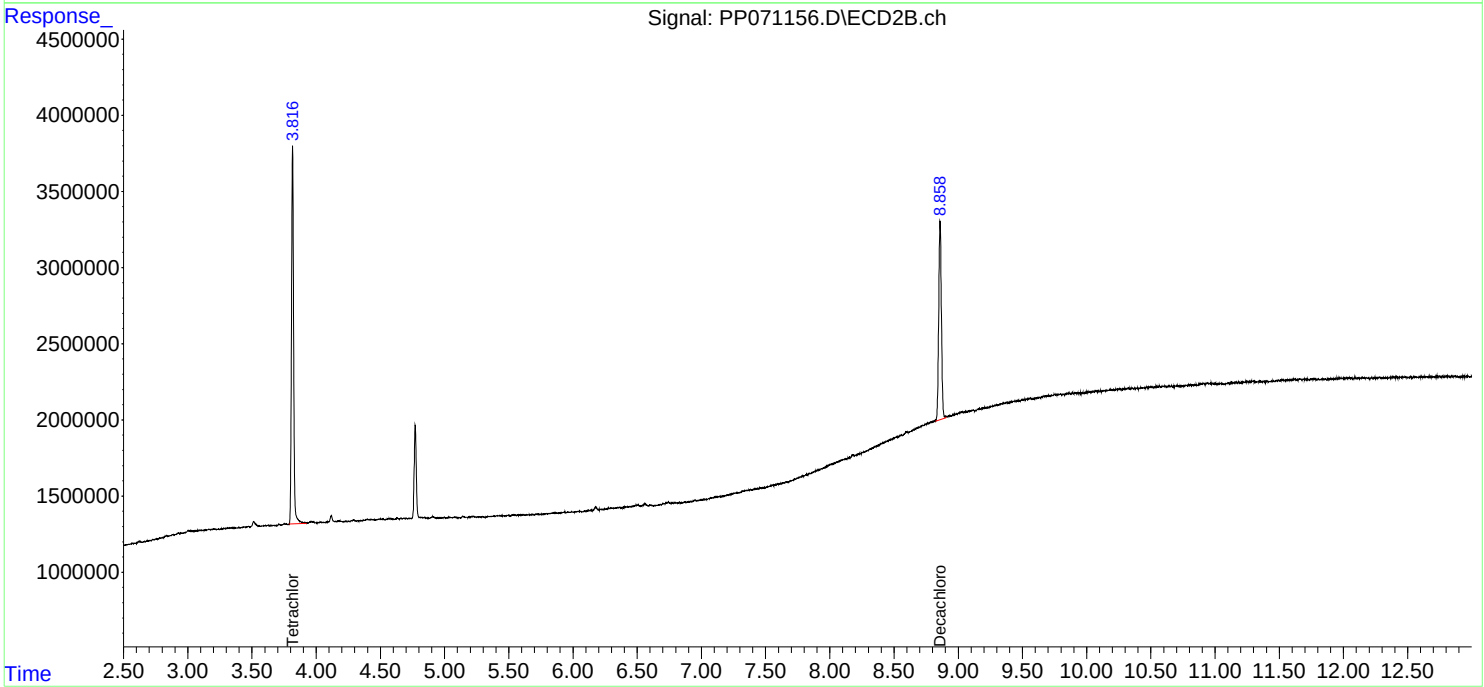
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:07
Operator : YP\AJ
Sample : PB167507BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

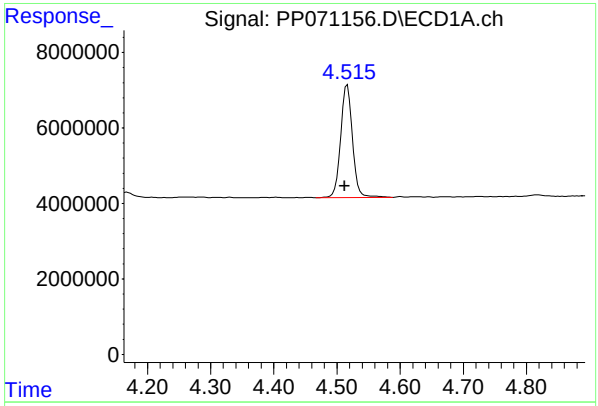
Instrument :
ECD_P
ClientSampleId :
PB167507BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



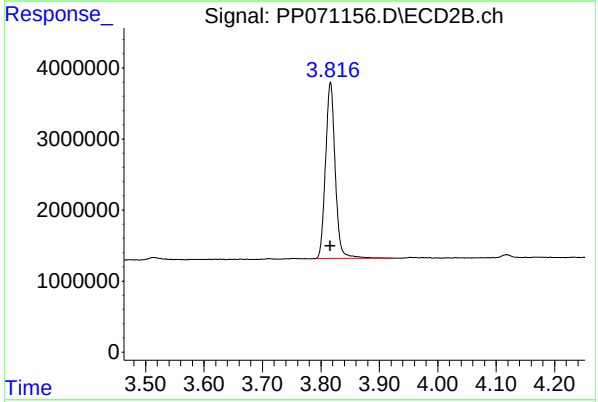




#1 Tetrachloro-m-xylene

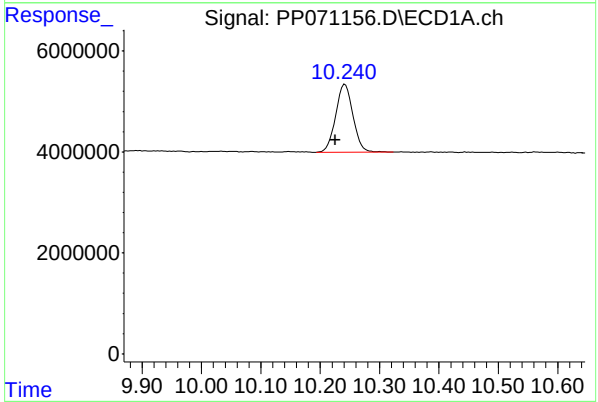
R.T.: 4.516 min
Delta R.T.: 0.004 min
Response: 38682818
Conc: 26.47 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB167507BL



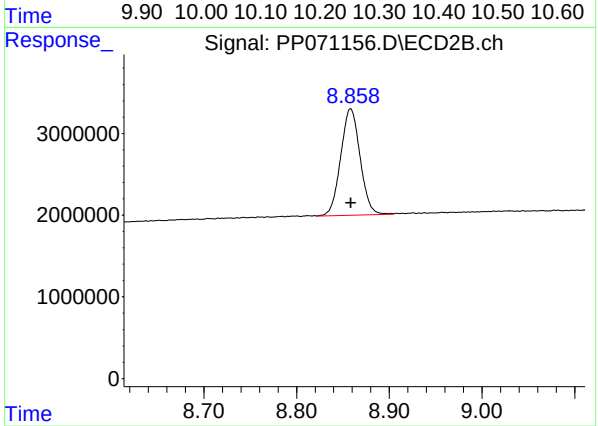
#1 Tetrachloro-m-xylene

R.T.: 3.816 min
Delta R.T.: 0.000 min
Response: 28677374
Conc: 27.66 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.242 min
Delta R.T.: 0.016 min
Response: 27306872
Conc: 25.94 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.858 min
Delta R.T.: 0.000 min
Response: 18887758
Conc: 23.96 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110307.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 14:30
Operator : YP/AJ
Sample : PB167515BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167515BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:21:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.691	3.688	178.4E6	97428952	19.596	18.579
2)	SA Decachlor...	8.740	8.691	152.1E6	39872930	19.785	16.435
	Target Compounds						

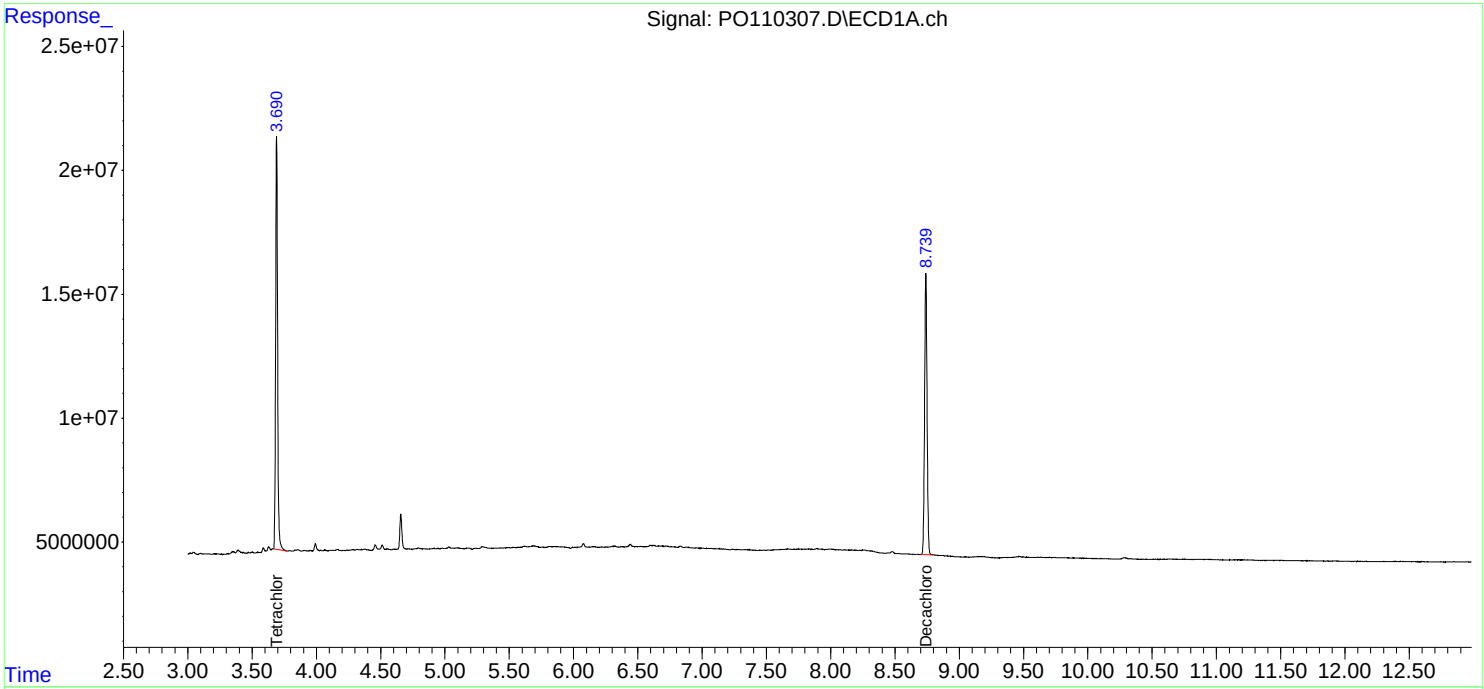
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

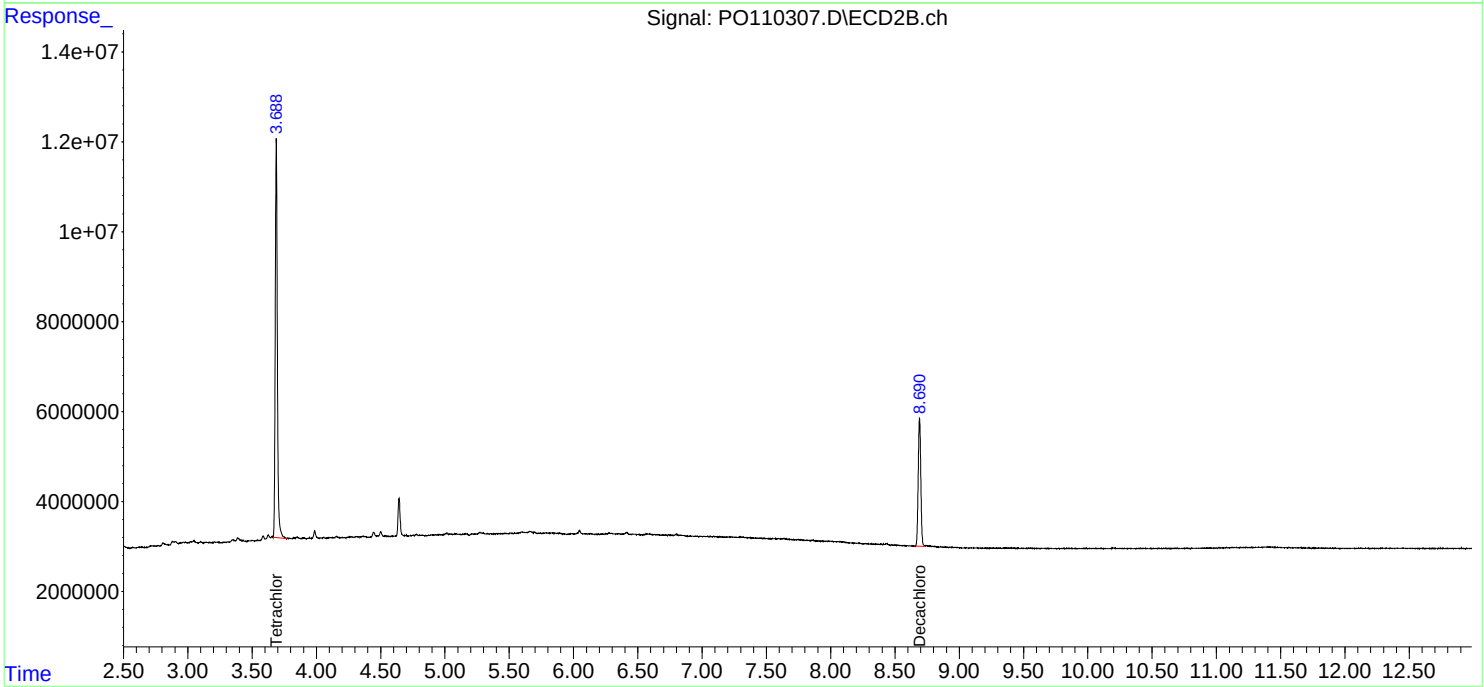
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110307.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 14:30
Operator : YP/AJ
Sample : PB167515BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

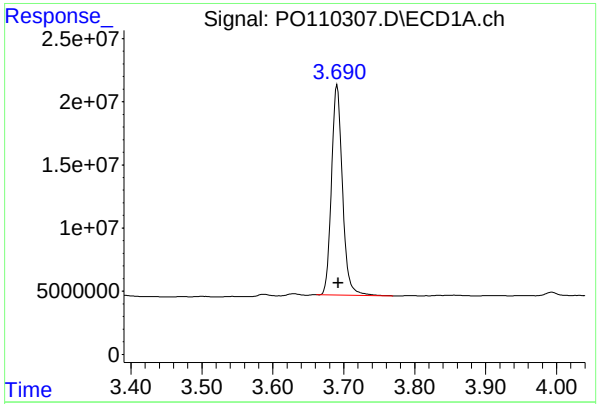
Instrument :
ECD_O
ClientSampleId :
PB167515BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:21:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



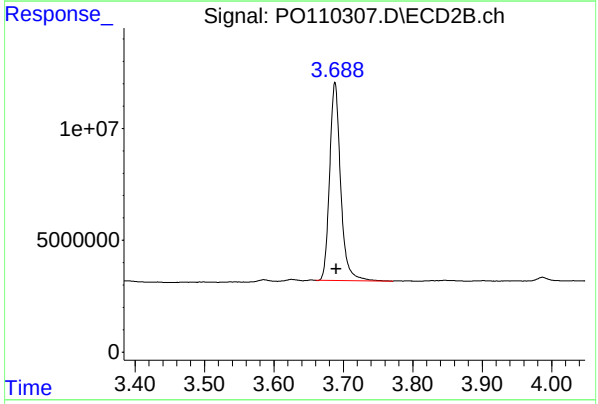




#1 Tetrachloro-m-xylene

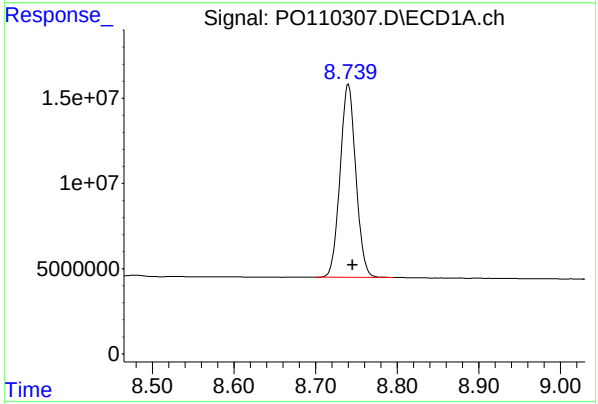
R.T.: 3.691 min
Delta R.T.: -0.001 min
Response: 178352233
Conc: 19.60 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB167515BL



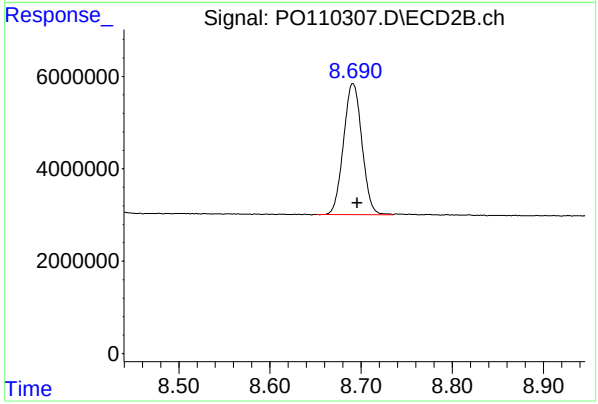
#1 Tetrachloro-m-xylene

R.T.: 3.688 min
Delta R.T.: -0.002 min
Response: 97428952
Conc: 18.58 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.740 min
Delta R.T.: -0.005 min
Response: 152123296
Conc: 19.79 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.691 min
Delta R.T.: -0.005 min
Response: 39872930
Conc: 16.43 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:23
Operator : YP\AJ
Sample : PB167507BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	4.518	3.816	38497139	25576966	26.339	24.673	
2)	SA Decachlor...	10.244	8.857	27062627	17843775	25.710	22.639	
	Target Compounds							
3)	L1 AR-1016-1	5.672	4.902	27097063	20471956	532.869	510.673	
4)	L1 AR-1016-2	5.694	4.920	41876414	28888897	536.508	499.246	
5)	L1 AR-1016-3	5.757	5.098	25159092	16299226	533.319	527.086	
6)	L1 AR-1016-4	5.854	5.139	20816722	13800122	566.353	566.603	
7)	L1 AR-1016-5	6.147	5.354	18775964	17370284	553.665	537.427	
31)	L7 AR-1260-1	7.267	6.390	38086561	31565391	567.163	616.435	
32)	L7 AR-1260-2	7.521	6.578	57469980	38686426	597.796	606.429	
33)	L7 AR-1260-3	7.880	6.731	38146478	34219624	477.319	628.035	#
34)	L7 AR-1260-4	8.105	7.203	38255618	24195511	485.866	505.904	
35)	L7 AR-1260-5	8.425	7.445	75466317	58288523	474.971	468.142	

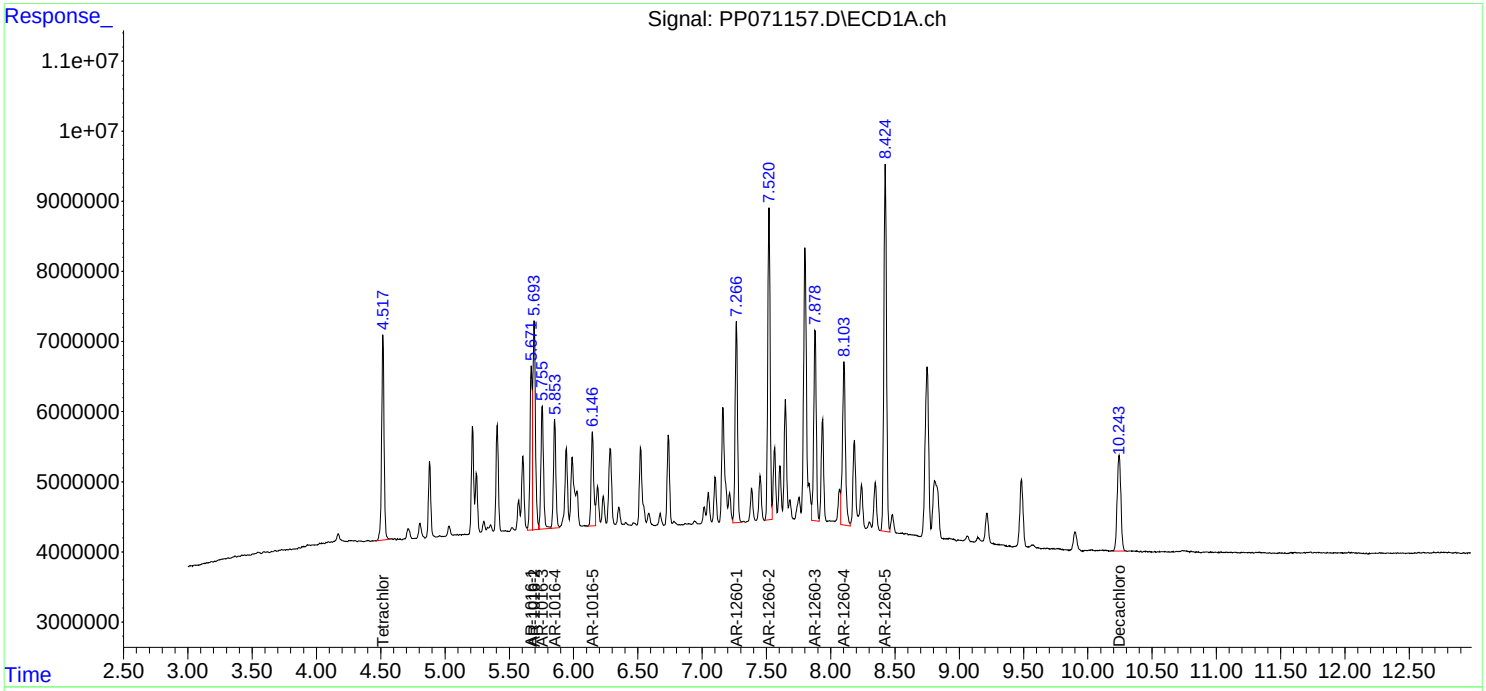
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

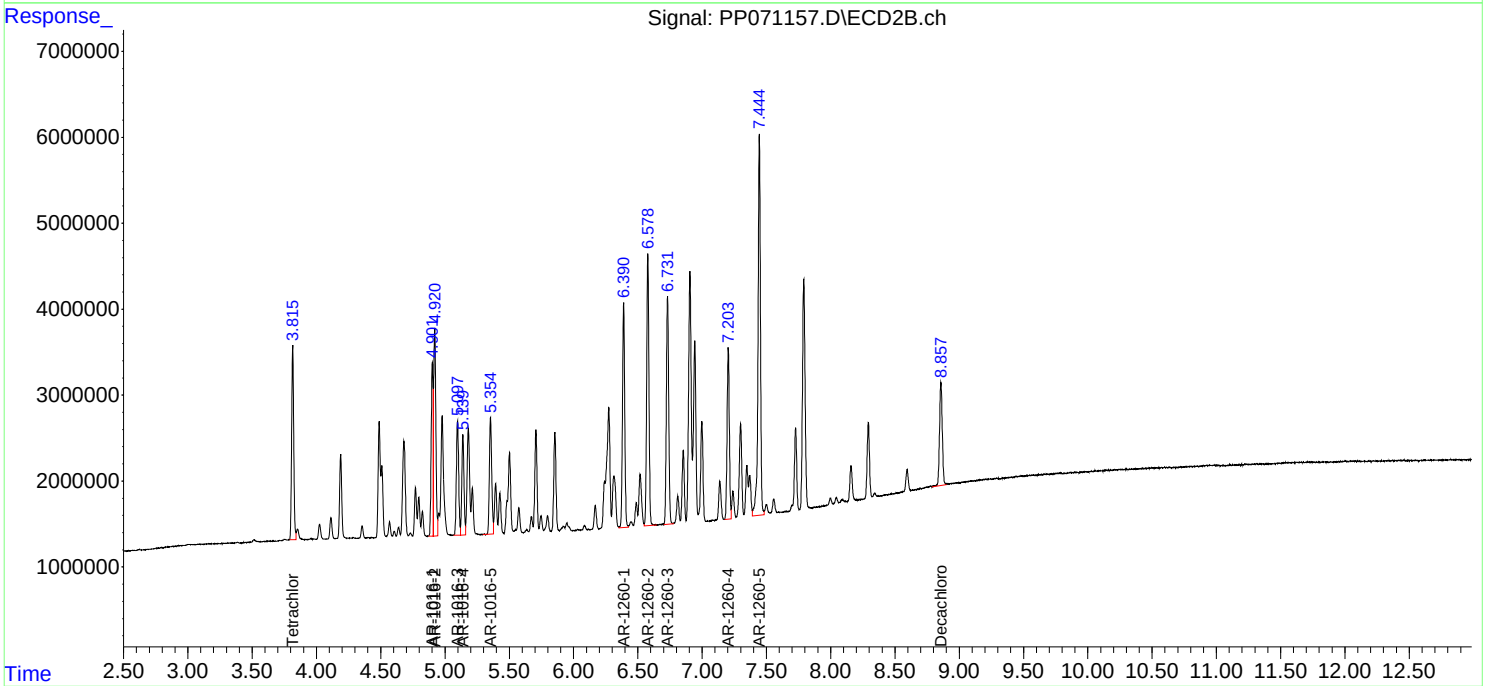
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:23
Operator : YP\AJ
Sample : PB167507BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110308.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 14:49
Operator : YP/AJ
Sample : PB167515BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167515BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:22:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.690	3.687	178.4E6	97550293	19.599	18.602
2)	SA Decachlor...	8.740	8.691	162.9E6	42043107	21.191	17.329
	Target Compounds						
3)	L1 AR-1016-1	4.782	4.768	143.0E6	74680724	424.821	407.524
4)	L1 AR-1016-2	4.801	4.787	200.8E6	106.3E6	433.060	406.636
5)	L1 AR-1016-3	4.858	4.963	137.5E6	57615774	428.778	406.378
6)	L1 AR-1016-4	4.978	5.005	108.3E6	47531045	428.573	403.045
7)	L1 AR-1016-5	5.236	5.218	113.6E6	59755208	413.184	390.765
31)	L7 AR-1260-1	6.277	6.250	217.9E6	108.0E6	462.358	422.754
32)	L7 AR-1260-2	6.466	6.438	264.8E6	124.7E6	444.689	415.350
33)	L7 AR-1260-3	6.833	6.590	190.0E6	116.5E6	391.597	403.177
34)	L7 AR-1260-4	7.094	7.062	177.4E6	79221682	418.247	368.339
35)	L7 AR-1260-5	7.336	7.303	415.8E6	173.8E6	397.530	348.495

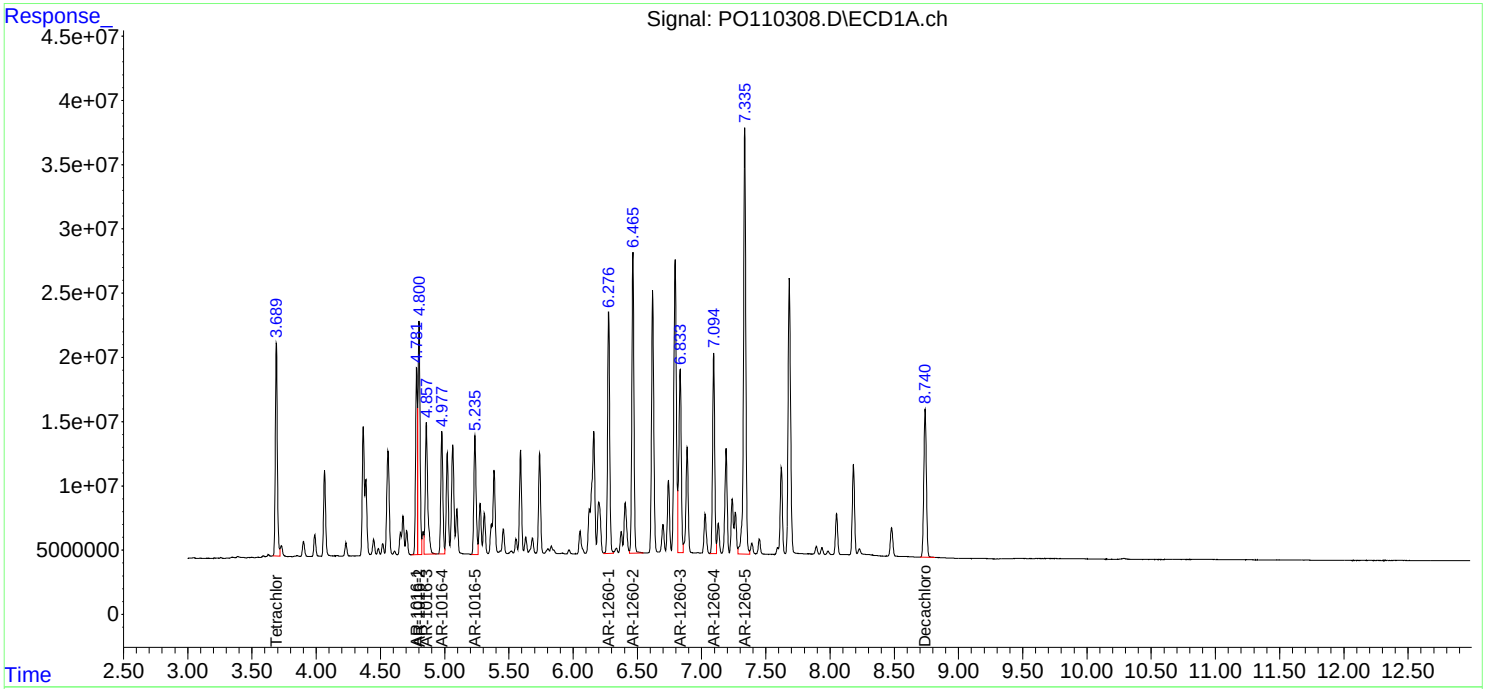
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

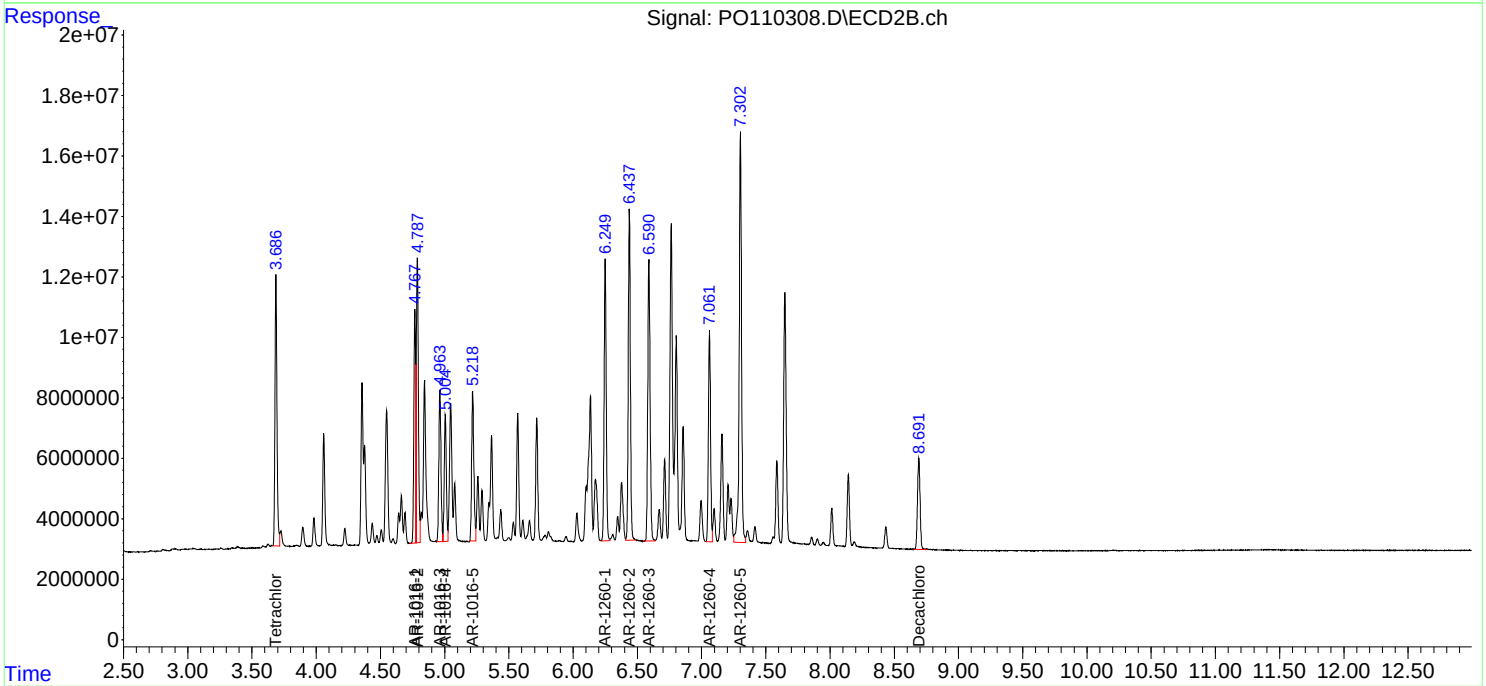
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110308.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 14:49
Operator : YP/AJ
Sample : PB167515BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167515BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:22:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110309.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 15:07
Operator : YP/AJ
Sample : PB167515BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167515BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:22:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.690	3.687	173.8E6	94980538	19.091	18.112
2)	SA Decachlor...	8.740	8.690	158.8E6	40493130	20.650	16.691
	Target Compounds						
3)	L1 AR-1016-1	4.782	4.768	141.2E6	73038451	419.605	398.562
4)	L1 AR-1016-2	4.801	4.788	193.8E6	103.5E6	418.052	395.802
5)	L1 AR-1016-3	4.858	4.963	134.4E6	56349261	419.322	397.445
6)	L1 AR-1016-4	4.978	5.005	106.2E6	46579987	420.393	394.981
7)	L1 AR-1016-5	5.235	5.218	110.8E6	58599528	403.126	383.207
31)	L7 AR-1260-1	6.276	6.250	211.9E6	105.0E6	449.562	410.981
32)	L7 AR-1260-2	6.465	6.438	258.1E6	121.4E6	433.453	404.440
33)	L7 AR-1260-3	6.832	6.590	186.5E6	113.7E6	384.389	393.326
34)	L7 AR-1260-4	7.093	7.062	172.9E6	77115625	407.626	358.547
35)	L7 AR-1260-5	7.335	7.302	404.8E6	168.8E6	387.051	338.542

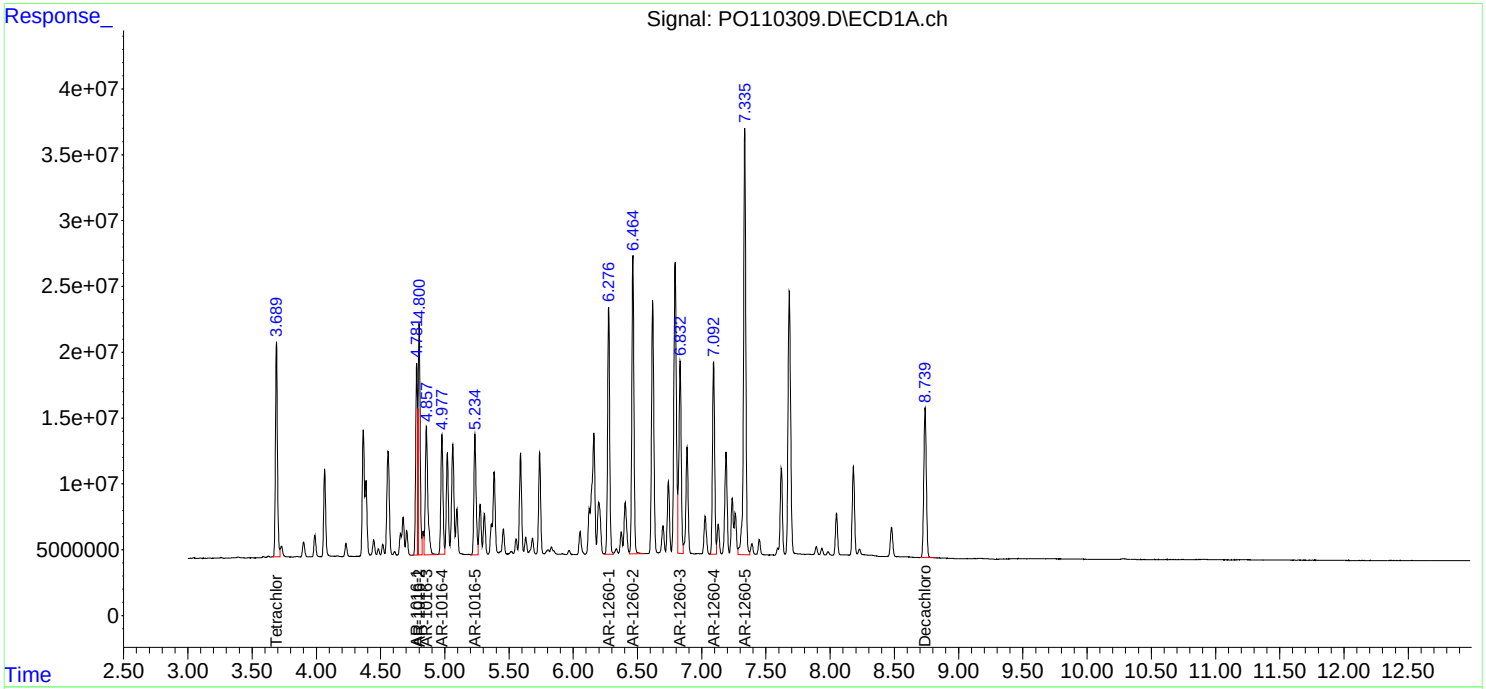
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

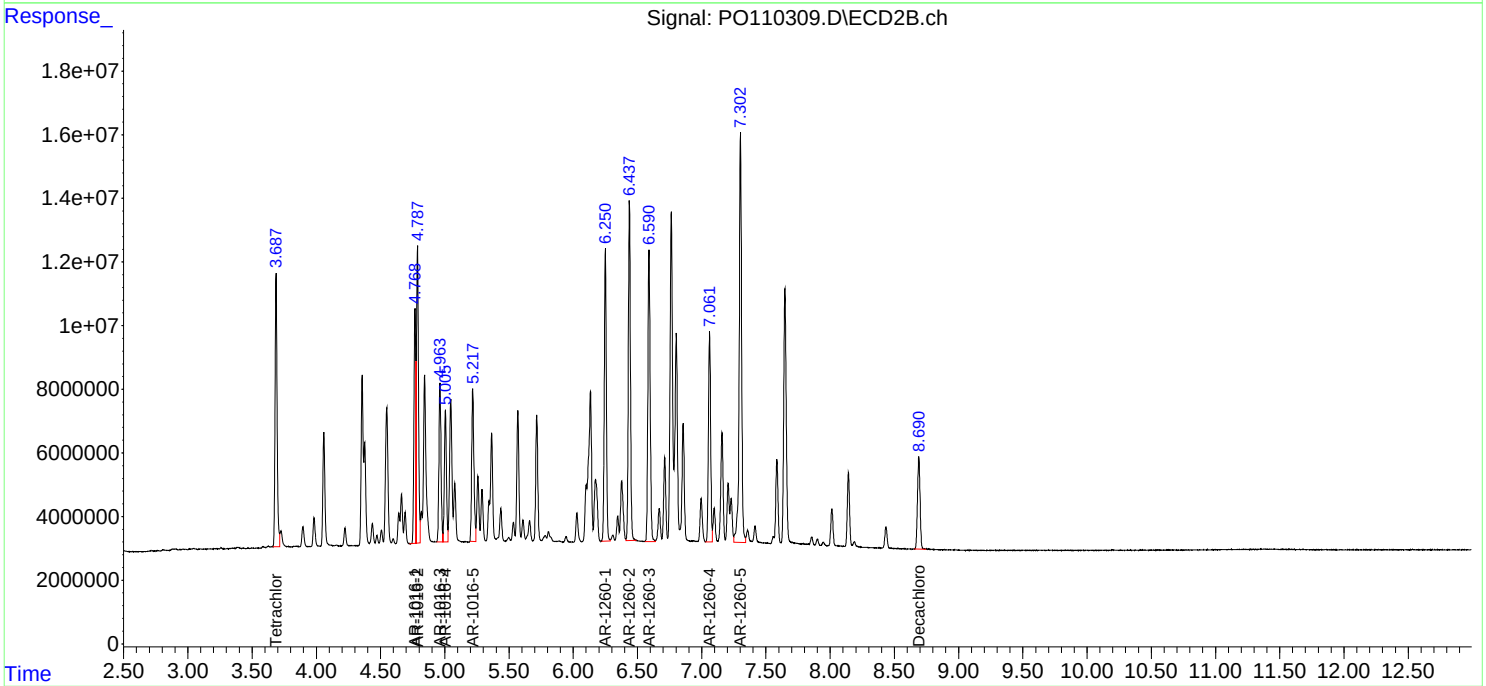
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO040825\
Data File : PO110309.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 15:07
Operator : YP/AJ
Sample : PB167515BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB167515BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:22:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031925.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 19 02:52:01 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:41
Operator : YP\AJ
Sample : Q1742-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TR-06-040725MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:15:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.514	3.816	27332299	20908590	18.701m	20.170
2)	SA Decachlor...	10.243	8.858	24249000	15705126	23.037	19.925
	Target Compounds						
3)	L1 AR-1016-1	5.670	4.902	22970342	17618377	451.716	439.491
4)	L1 AR-1016-2	5.692	4.921	32920730	24304467	421.771	420.020
5)	L1 AR-1016-3	5.754	5.097	20545367	13907076	435.518	449.728
6)	L1 AR-1016-4	5.852	5.140	20759803	11304852	564.805	464.152
7)	L1 AR-1016-5	6.145	5.354	15138267	14442439	446.397	446.841
31)	L7 AR-1260-1	7.265	6.390	38056781	26377008	566.719	515.112
32)	L7 AR-1260-2	7.519	6.579	53815085	31645634	559.779	496.061
33)	L7 AR-1260-3	7.878	6.732	34258366	27370584	428.668	502.334
34)	L7 AR-1260-4	8.103	7.204	36215500	19705112	459.956	412.014
35)	L7 AR-1260-5	8.423	7.445	73760190	46946118	464.233	377.046

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

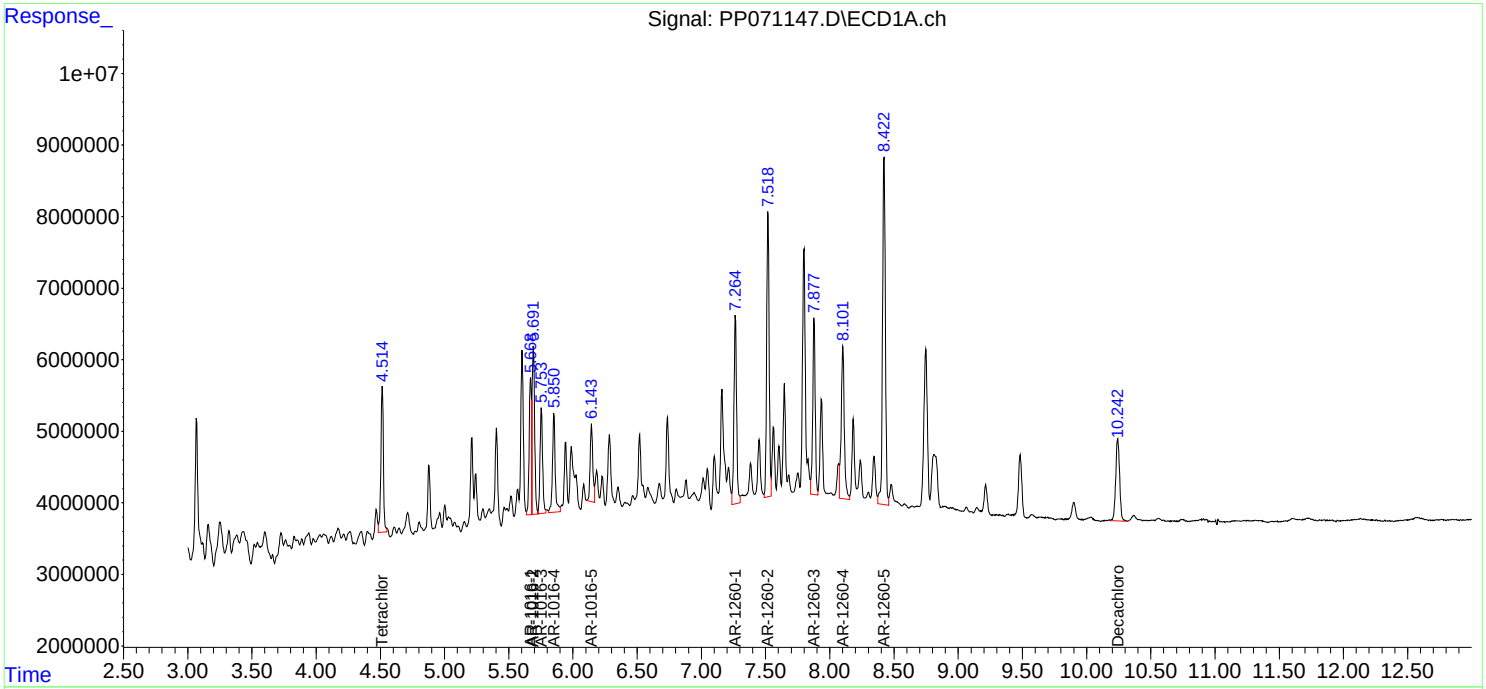
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:41
Operator : YP\AJ
Sample : Q1742-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

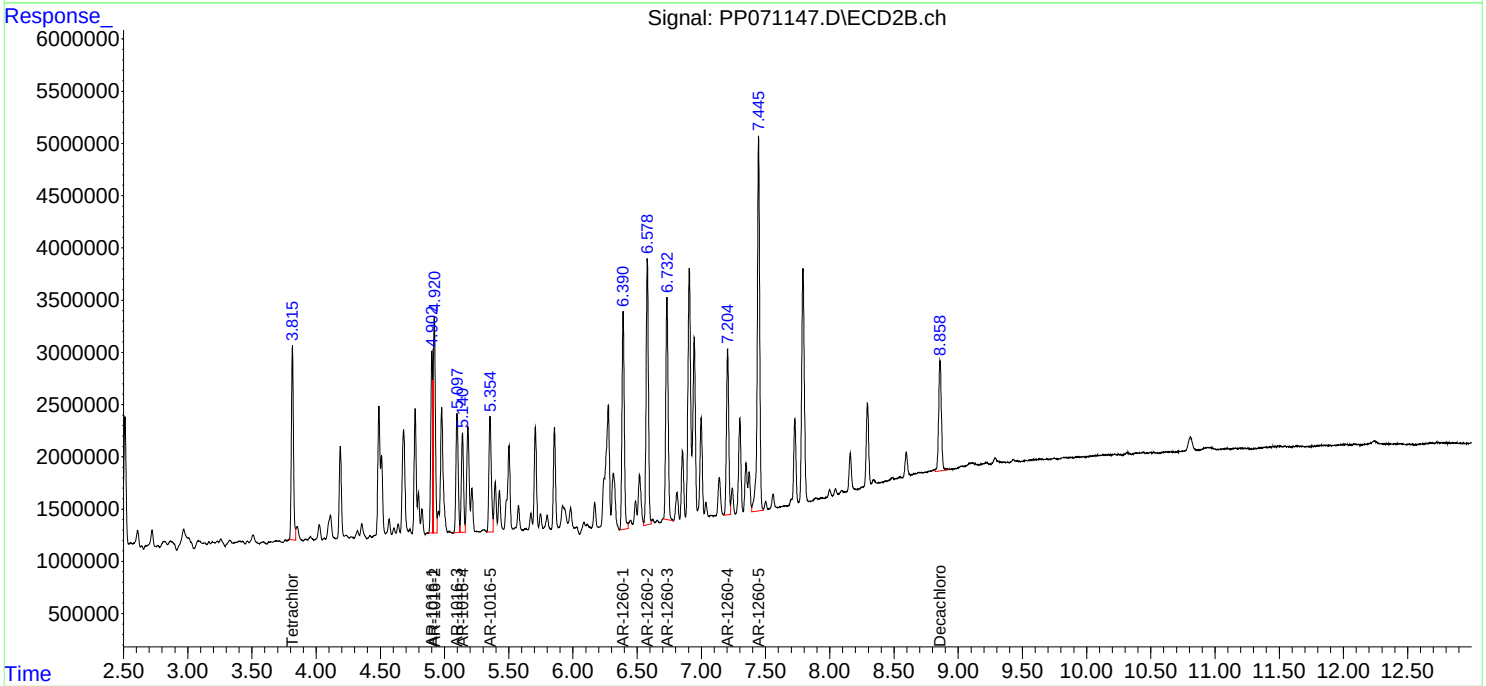
Instrument :
ECD_P
ClientSampleId :
TR-06-040725MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:15:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:57
Operator : YP\AJ
Sample : Q1742-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TR-06-040725MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.517	3.815	25476701	21963900	17.431m	21.188
2)	SA Decachlor...	10.247	8.858	23506426	16173777	22.331	20.520
	Target Compounds						
3)	L1 AR-1016-1	5.673	4.902	22639729	18047298	445.215	450.190
4)	L1 AR-1016-2	5.695	4.921	32357640	24967273	414.556	431.474
5)	L1 AR-1016-3	5.758	5.098	20155342	14283830	427.250	461.911
6)	L1 AR-1016-4	5.855	5.140	20368243	11652250	554.151	478.416
7)	L1 AR-1016-5	6.148	5.355	14646639	14845132	431.900	459.300
31)	L7 AR-1260-1	7.269	6.391	36708721	25430138	546.645	496.621
32)	L7 AR-1260-2	7.522	6.579	50769132	30372822	528.095	476.109
33)	L7 AR-1260-3	7.881	6.733	31997309	26271275	400.376	482.158
34)	L7 AR-1260-4	8.106	7.205	33485937	18393580	425.289	384.591
35)	L7 AR-1260-5	8.426	7.445	69050583	44825369	434.592	360.013

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

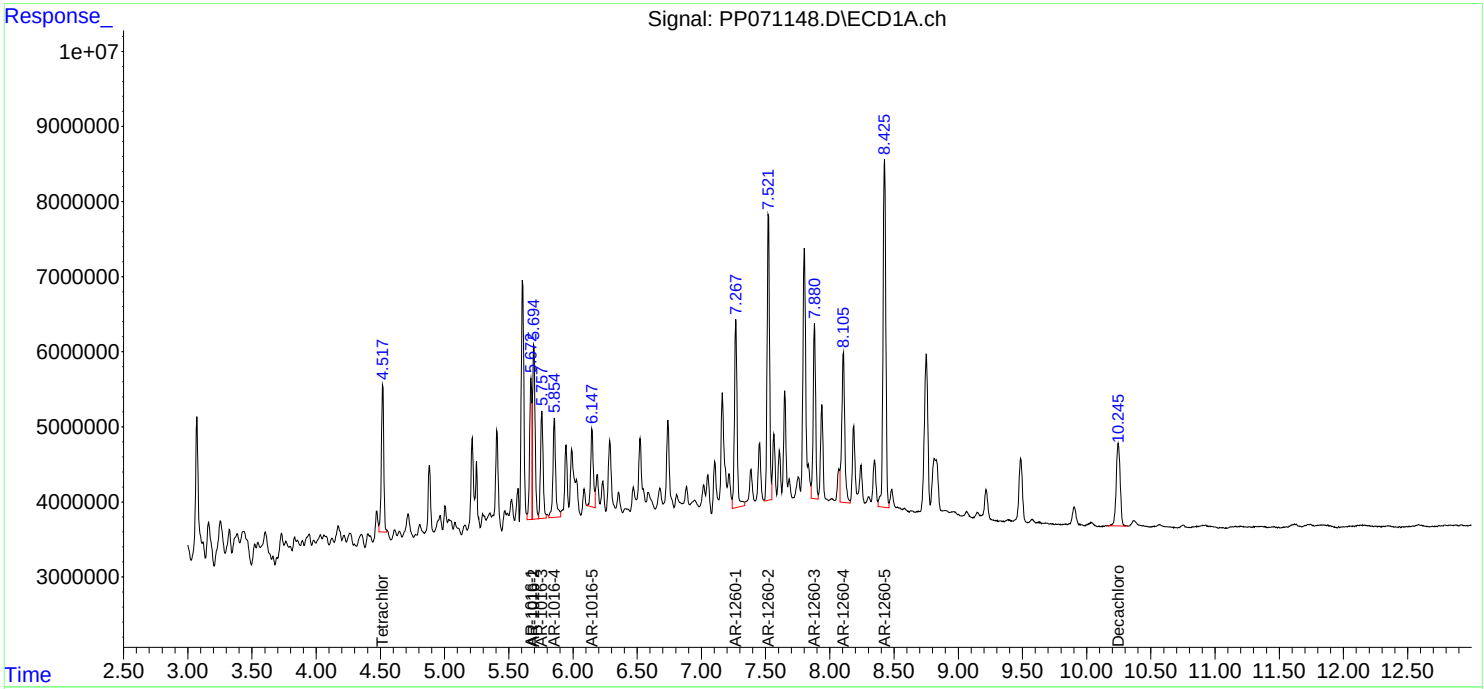
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:57
Operator : YP\AJ
Sample : Q1742-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

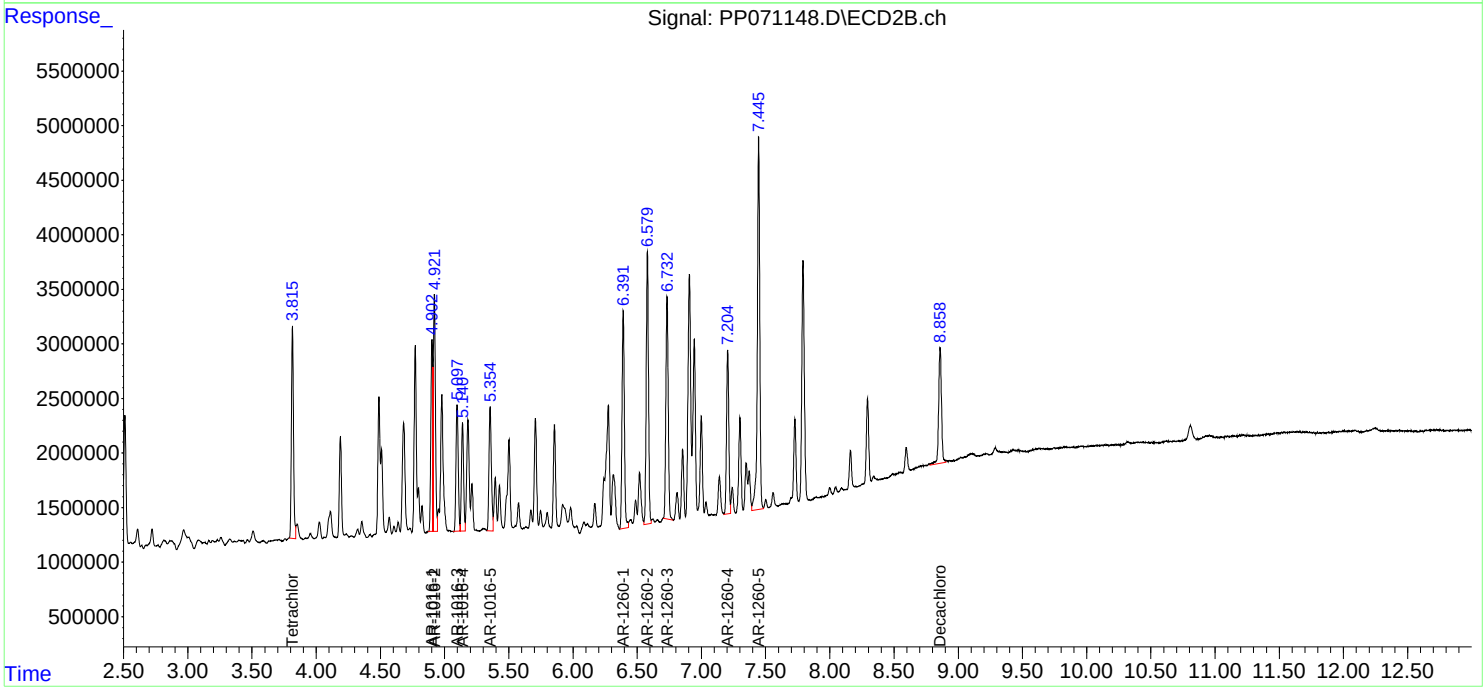
Instrument :
ECD_P
ClientSampleId :
TR-06-040725MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PO031925	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC750	PO109973.D	AR-1260-5 #2	yogesh	3/19/2025 8:01:07 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1660ICC050	PO109976.D	AR-1260-1	yogesh	3/19/2025 8:01:25 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1660ICC050	PO109976.D	AR-1260-1 #2	yogesh	3/19/2025 8:01:25 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1660ICC050	PO109976.D	AR-1260-3 #2	yogesh	3/19/2025 8:01:25 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1242ICC050	PO109983.D	AR-1242-3 #2	yogesh	3/19/2025 8:01:09 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1242ICC050	PO109983.D	AR-1242-4	yogesh	3/19/2025 8:01:09 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1242ICC050	PO109983.D	AR-1242-5	yogesh	3/19/2025 8:01:09 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1242ICC050	PO109983.D	AR-1242-5 #2	yogesh	3/19/2025 8:01:09 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1242ICC050	PO109983.D	Tetrachloro-m-xylene	yogesh	3/19/2025 8:01:09 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1242ICC050	PO109983.D	Tetrachloro-m-xylene #2	yogesh	3/19/2025 8:01:09 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1248ICC050	PO109988.D	AR-1248-3	yogesh	3/19/2025 8:01:10 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1248ICC050	PO109988.D	AR-1248-4 #2	yogesh	3/19/2025 8:01:10 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1254ICC050	PO109993.D	AR-1254-5 #2	yogesh	3/19/2025 8:01:12 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO031925	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC500	PO109997.D	AR-1268-1	yogesh	3/19/2025 8:01:13 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1268ICC250	PO109998.D	AR-1268-1	yogesh	3/19/2025 8:01:15 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1268ICC050	PO109999.D	AR-1268-1	yogesh	3/19/2025 8:01:16 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1268ICC050	PO109999.D	AR-1268-4	yogesh	3/19/2025 8:01:16 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1268ICC050	PO109999.D	Tetrachloro-m-xylene	yogesh	3/19/2025 8:01:16 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software
AR1268ICC050	PO109999.D	Tetrachloro-m-xylene #2	yogesh	3/19/2025 8:01:16 AM	mohammad	3/24/2025 3:02:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO040825	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PO110295.D	AR-1254-1	yogesh	4/8/2025 2:56:17 PM	mohammad	4/10/2025 5:29:43	Peak Integrated by Software
AR1254CCC500	PO110295.D	AR-1254-2	yogesh	4/8/2025 2:56:17 PM	mohammad	4/10/2025 5:29:43	Peak Integrated by Software
AR1254CCC500	PO110295.D	AR-1254-4 #2	yogesh	4/8/2025 2:56:17 PM	mohammad	4/10/2025 5:29:43	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP032725	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC250	PP070920.D	AR-1260-3	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC250	PP070920.D	AR-1260-4	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC250	PP070920.D	AR-1260-5	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1016-5	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-1	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-3	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-4	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-5	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1232ICC500	PP070923.D	Decachlorobiphenyl	yogesh	3/28/2025 7:37:40 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-1	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-2 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-3	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP032725	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242ICC050	PP070928.D	AR-1242-4	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-4 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-5	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-5 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-2	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-3	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-4	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-5	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC1000	PP070934.D	AR-1254-5	yogesh	3/28/2025 7:37:45 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC750	PP070935.D	AR-1254-5	yogesh	3/28/2025 7:37:47 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC250	PP070937.D	AR-1254-5	yogesh	3/28/2025 7:37:48 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC1000	PP070940.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:50 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC750	PP070941.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:51 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP032725	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC500	PP070942.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:53 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC250	PP070943.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:55 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	AR-1268-4 #2	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	Tetrachloro-m-xylene	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICV500	PP070948.D	AR-1254-5	yogesh	3/28/2025 7:37:58 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP040825	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PP071136.D	AR-1260-4	yogesh	4/9/2025 9:18:11 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software
Q1742-01MS	PP071147.D	Tetrachloro-m-xylene	yogesh	4/9/2025 9:18:13 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software
Q1742-01MSD	PP071148.D	Tetrachloro-m-xylene	yogesh	4/9/2025 9:18:15 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO031925

Review By	yogesh	Review On	3/18/2025 3:19:21 PM		
Supervise By	mohammad	Supervise On	3/24/2025 3:02:46 AM		
SubDirectory	PO031925	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO109970.D	18 Mar 2025 13:26	YP/AJ	Ok
2	I.BLK	PO109971.D	18 Mar 2025 13:44	YP/AJ	Ok
3	AR1660ICC1000	PO109972.D	18 Mar 2025 14:03	YP/AJ	Ok
4	AR1660ICC750	PO109973.D	18 Mar 2025 14:21	YP/AJ	Ok,M
5	AR1660ICC500	PO109974.D	18 Mar 2025 14:39	YP/AJ	Ok
6	AR1660ICC250	PO109975.D	18 Mar 2025 14:58	YP/AJ	Ok
7	AR1660ICC050	PO109976.D	18 Mar 2025 15:16	YP/AJ	Ok,M
8	AR1221ICC500	PO109977.D	18 Mar 2025 15:34	YP/AJ	Ok
9	AR1232ICC500	PO109978.D	18 Mar 2025 15:53	YP/AJ	Ok
10	AR1242ICC1000	PO109979.D	18 Mar 2025 16:11	YP/AJ	Ok
11	AR1242ICC750	PO109980.D	18 Mar 2025 16:30	YP/AJ	Ok
12	AR1242ICC500	PO109981.D	18 Mar 2025 16:48	YP/AJ	Ok
13	AR1242ICC250	PO109982.D	18 Mar 2025 17:06	YP/AJ	Ok
14	AR1242ICC050	PO109983.D	18 Mar 2025 17:25	YP/AJ	Ok,M
15	AR1248ICC1000	PO109984.D	18 Mar 2025 17:42	YP/AJ	Ok
16	AR1248ICC750	PO109985.D	18 Mar 2025 18:00	YP/AJ	Ok
17	AR1248ICC500	PO109986.D	18 Mar 2025 18:19	YP/AJ	Ok
18	AR1248ICC250	PO109987.D	18 Mar 2025 18:37	YP/AJ	Ok
19	AR1248ICC050	PO109988.D	18 Mar 2025 18:54	YP/AJ	Ok,M
20	AR1254ICC1000	PO109989.D	18 Mar 2025 19:13	YP/AJ	Ok
21	AR1254ICC750	PO109990.D	18 Mar 2025 19:31	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO031925

Review By	yogesh	Review On	3/18/2025 3:19:21 PM		
Supervise By	mohammad	Supervise On	3/24/2025 3:02:46 AM		
SubDirectory	PO031925	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PO109991.D	18 Mar 2025 19:49	YP/AJ	Ok
23	AR1254ICC250	PO109992.D	18 Mar 2025 20:07	YP/AJ	Ok
24	AR1254ICC050	PO109993.D	18 Mar 2025 20:25	YP/AJ	Ok,M
25	AR1262ICC500	PO109994.D	18 Mar 2025 20:43	YP/AJ	Ok
26	AR1268ICC1000	PO109995.D	18 Mar 2025 21:02	YP/AJ	Ok
27	AR1268ICC750	PO109996.D	18 Mar 2025 21:20	YP/AJ	Ok
28	AR1268ICC500	PO109997.D	18 Mar 2025 21:39	YP/AJ	Ok,M
29	AR1268ICC250	PO109998.D	18 Mar 2025 21:57	YP/AJ	Ok,M
30	AR1268ICC050	PO109999.D	18 Mar 2025 22:15	YP/AJ	Ok,M
31	PO031925ICV500	PO110000.D	18 Mar 2025 22:34	YP/AJ	Ok
32	AR1242ICV500	PO110001.D	18 Mar 2025 23:47	YP/AJ	Ok
33	AR1248ICV500	PO110002.D	19 Mar 2025 00:05	YP/AJ	Ok
34	AR1254ICV500	PO110003.D	19 Mar 2025 00:24	YP/AJ	Ok
35	AR1268ICV500	PO110004.D	19 Mar 2025 00:42	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO040825

Review By	yogesh	Review On	4/8/2025 10:42:21 AM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:43 AM		
SubDirectory	PO040825	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO110291.D	08 Apr 2025 08:31	YP/AJ	Ok
2	AR1660CCC500	PO110292.D	08 Apr 2025 09:08	YP/AJ	Ok
3	AR1242CCC500	PO110293.D	08 Apr 2025 09:27	YP/AJ	Ok
4	AR1248CCC500	PO110294.D	08 Apr 2025 09:45	YP/AJ	Ok
5	AR1254CCC500	PO110295.D	08 Apr 2025 10:04	YP/AJ	Ok,M
6	I.BLK	PO110296.D	08 Apr 2025 10:21	YP/AJ	Ok
7	Q1730-05	PO110297.D	08 Apr 2025 10:39	YP/AJ	Ok
8	Q1730-07	PO110298.D	08 Apr 2025 10:58	YP/AJ	Ok
9	Q1730-09	PO110299.D	08 Apr 2025 11:16	YP/AJ	Ok
10	Q1730-11	PO110300.D	08 Apr 2025 11:35	YP/AJ	Ok
11	Q1730-13	PO110301.D	08 Apr 2025 11:53	YP/AJ	Ok
12	AR1660CCC500	PO110302.D	08 Apr 2025 12:58	YP/AJ	Ok
13	AR1242CCC500	PO110303.D	08 Apr 2025 13:17	YP/AJ	Ok
14	AR1248CCC500	PO110304.D	08 Apr 2025 13:35	YP/AJ	Ok
15	AR1254CCC500	PO110305.D	08 Apr 2025 13:53	YP/AJ	Ok
16	I.BLK	PO110306.D	08 Apr 2025 14:12	YP/AJ	Ok
17	PB167515BL	PO110307.D	08 Apr 2025 14:30	YP/AJ	Ok
18	PB167515BS	PO110308.D	08 Apr 2025 14:49	YP/AJ	Ok
19	PB167515BSD	PO110309.D	08 Apr 2025 15:07	YP/AJ	Ok
20	Q1735-04	PO110310.D	08 Apr 2025 15:25	YP/AJ	Ok
21	Q1746-05	PO110311.D	08 Apr 2025 15:44	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO040825

Review By	yogesh	Review On	4/8/2025 10:42:21 AM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:43 AM		
SubDirectory	PO040825	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1746-06	PO110312.D	08 Apr 2025 16:02	YP/AJ	Ok
23	Q1746-07	PO110313.D	08 Apr 2025 16:20	YP/AJ	Ok
24	Q1739-01	PO110314.D	08 Apr 2025 16:39	YP/AJ	Ok,M
25	AR1660CCC500	PO110315.D	08 Apr 2025 17:54	YP/AJ	Ok
26	AR1242CCC500	PO110316.D	08 Apr 2025 18:49	YP/AJ	Ok
27	AR1248CCC500	PO110317.D	08 Apr 2025 19:08	YP/AJ	Ok
28	AR1254CCC500	PO110318.D	08 Apr 2025 19:25	YP/AJ	Ok
29	I.BLK	PO110319.D	08 Apr 2025 19:43	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP070915.D	27 Mar 2025 09:58	YP\AJ	Ok
2	I.BLK	PP070916.D	27 Mar 2025 10:14	YP\AJ	Ok
3	AR1660ICC1000	PP070917.D	27 Mar 2025 10:30	YP\AJ	Ok
4	AR1660ICC750	PP070918.D	27 Mar 2025 10:47	YP\AJ	Ok
5	AR1660ICC500	PP070919.D	27 Mar 2025 11:03	YP\AJ	Ok
6	AR1660ICC250	PP070920.D	27 Mar 2025 11:19	YP\AJ	Ok,M
7	AR1660ICC050	PP070921.D	27 Mar 2025 11:35	YP\AJ	Ok,M
8	AR1221ICC500	PP070922.D	27 Mar 2025 11:52	YP\AJ	Ok
9	AR1232ICC500	PP070923.D	27 Mar 2025 12:11	YP\AJ	Ok,M
10	AR1242ICC1000	PP070924.D	27 Mar 2025 12:28	YP\AJ	Ok
11	AR1242ICC750	PP070925.D	27 Mar 2025 12:44	YP\AJ	Ok
12	AR1242ICC500	PP070926.D	27 Mar 2025 13:00	YP\AJ	Ok
13	AR1242ICC250	PP070927.D	27 Mar 2025 13:16	YP\AJ	Ok
14	AR1242ICC050	PP070928.D	27 Mar 2025 13:33	YP\AJ	Ok,M
15	AR1248ICC1000	PP070929.D	27 Mar 2025 13:49	YP\AJ	Ok
16	AR1248ICC750	PP070930.D	27 Mar 2025 14:05	YP\AJ	Ok
17	AR1248ICC500	PP070931.D	27 Mar 2025 14:22	YP\AJ	Ok
18	AR1248ICC250	PP070932.D	27 Mar 2025 14:38	YP\AJ	Ok
19	AR1248ICC050	PP070933.D	27 Mar 2025 14:55	YP\AJ	Ok,M
20	AR1254ICC1000	PP070934.D	27 Mar 2025 15:11	YP\AJ	Ok,M
21	AR1254ICC750	PP070935.D	27 Mar 2025 15:27	YP\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP070936.D	27 Mar 2025 15:43	YP\AJ	Ok
23	AR1254ICC250	PP070937.D	27 Mar 2025 16:00	YP\AJ	Ok,M
24	AR1254ICC050	PP070938.D	27 Mar 2025 16:16	YP\AJ	Ok
25	AR1262ICC500	PP070939.D	27 Mar 2025 16:32	YP\AJ	Ok
26	AR1268ICC1000	PP070940.D	27 Mar 2025 16:48	YP\AJ	Ok,M
27	AR1268ICC750	PP070941.D	27 Mar 2025 17:05	YP\AJ	Ok,M
28	AR1268ICC500	PP070942.D	27 Mar 2025 17:21	YP\AJ	Ok,M
29	AR1268ICC250	PP070943.D	27 Mar 2025 17:37	YP\AJ	Ok,M
30	AR1268ICC050	PP070944.D	27 Mar 2025 17:53	YP\AJ	Ok,M
31	PP032725ICV500	PP070945.D	27 Mar 2025 18:26	YP\AJ	Ok
32	AR1242ICV500	PP070946.D	27 Mar 2025 18:42	YP\AJ	Ok
33	AR1248ICV500	PP070947.D	27 Mar 2025 19:15	YP\AJ	Ok
34	AR1254ICV500	PP070948.D	27 Mar 2025 19:47	YP\AJ	Ok,M
35	AR1268ICV500	PP070949.D	27 Mar 2025 20:20	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP071135.D	08 Apr 2025 08:39	YP\AJ	Ok
2	AR1660CCC500	PP071136.D	08 Apr 2025 09:37	YP\AJ	Ok,M
3	AR1242CCC500	PP071137.D	08 Apr 2025 09:56	YP\AJ	Ok
4	AR1248CCC500	PP071138.D	08 Apr 2025 10:33	YP\AJ	Ok
5	AR1254CCC500	PP071139.D	08 Apr 2025 10:49	YP\AJ	Ok
6	I.BLK	PP071140.D	08 Apr 2025 11:05	YP\AJ	Ok
7	PB167469BL	PP071141.D	08 Apr 2025 11:23	YP\AJ	Not Ok
8	Q1730-15	PP071142.D	08 Apr 2025 11:39	YP\AJ	Ok
9	Q1730-17	PP071143.D	08 Apr 2025 11:56	YP\AJ	Ok
10	Q1730-19	PP071144.D	08 Apr 2025 12:12	YP\AJ	Ok
11	Q1740-01	PP071145.D	08 Apr 2025 13:08	YP\AJ	Ok
12	Q1742-01	PP071146.D	08 Apr 2025 13:25	YP\AJ	Ok,M
13	Q1742-01MS	PP071147.D	08 Apr 2025 13:41	YP\AJ	Ok,M
14	Q1742-01MSD	PP071148.D	08 Apr 2025 13:57	YP\AJ	Ok,M
15	Q1743-01	PP071149.D	08 Apr 2025 14:14	YP\AJ	Ok,M
16	Q1744-01	PP071150.D	08 Apr 2025 14:30	YP\AJ	Ok
17	AR1660CCC500	PP071151.D	08 Apr 2025 15:29	YP\AJ	Ok
18	AR1242CCC500	PP071152.D	08 Apr 2025 16:02	YP\AJ	Ok
19	AR1248CCC500	PP071153.D	08 Apr 2025 16:18	YP\AJ	Ok
20	AR1254CCC500	PP071154.D	08 Apr 2025 16:34	YP\AJ	Ok
21	I.BLK	PP071155.D	08 Apr 2025 16:51	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB167507BL	PP071156.D	08 Apr 2025 17:07	YP\AJ	Ok
23	PB167507BS	PP071157.D	08 Apr 2025 17:23	YP\AJ	Ok
24	Q1744-03	PP071158.D	08 Apr 2025 17:40	YP\AJ	Ok
25	Q1745-01	PP071159.D	08 Apr 2025 17:56	YP\AJ	Ok,M
26	Q1745-09	PP071160.D	08 Apr 2025 18:12	YP\AJ	Ok,M
27	Q1746-01	PP071161.D	08 Apr 2025 18:28	YP\AJ	Ok
28	Q1746-03	PP071162.D	08 Apr 2025 18:45	YP\AJ	Ok
29	Q1747-01	PP071163.D	08 Apr 2025 19:01	YP\AJ	Ok,M
30	AR1660CCC500	PP071164.D	08 Apr 2025 20:28	YP\AJ	Ok
31	AR1242CCC500	PP071165.D	08 Apr 2025 21:17	YP\AJ	Ok
32	AR1248CCC500	PP071166.D	08 Apr 2025 21:33	YP\AJ	Ok
33	AR1254CCC500	PP071167.D	08 Apr 2025 21:49	YP\AJ	Ok
34	I.BLK	PP071168.D	08 Apr 2025 22:05	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO031925

Review By	yogesh	Review On	3/18/2025 3:19:21 PM		
Supervise By	mohammad	Supervise On	3/24/2025 3:02:46 AM		
SubDirectory	PO031925	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO109970.D	18 Mar 2025 13:26		YP/AJ	Ok
2	I.BLK	I.BLK	PO109971.D	18 Mar 2025 13:44		YP/AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PO109972.D	18 Mar 2025 14:03		YP/AJ	Ok
4	AR1660ICC750	AR1660ICC750	PO109973.D	18 Mar 2025 14:21		YP/AJ	Ok,M
5	AR1660ICC500	AR1660ICC500	PO109974.D	18 Mar 2025 14:39		YP/AJ	Ok
6	AR1660ICC250	AR1660ICC250	PO109975.D	18 Mar 2025 14:58		YP/AJ	Ok
7	AR1660ICC050	AR1660ICC050	PO109976.D	18 Mar 2025 15:16		YP/AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PO109977.D	18 Mar 2025 15:34		YP/AJ	Ok
9	AR1232ICC500	AR1232ICC500	PO109978.D	18 Mar 2025 15:53		YP/AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PO109979.D	18 Mar 2025 16:11		YP/AJ	Ok
11	AR1242ICC750	AR1242ICC750	PO109980.D	18 Mar 2025 16:30		YP/AJ	Ok
12	AR1242ICC500	AR1242ICC500	PO109981.D	18 Mar 2025 16:48		YP/AJ	Ok
13	AR1242ICC250	AR1242ICC250	PO109982.D	18 Mar 2025 17:06		YP/AJ	Ok
14	AR1242ICC050	AR1242ICC050	PO109983.D	18 Mar 2025 17:25		YP/AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PO109984.D	18 Mar 2025 17:42		YP/AJ	Ok
16	AR1248ICC750	AR1248ICC750	PO109985.D	18 Mar 2025 18:00		YP/AJ	Ok
17	AR1248ICC500	AR1248ICC500	PO109986.D	18 Mar 2025 18:19		YP/AJ	Ok
18	AR1248ICC250	AR1248ICC250	PO109987.D	18 Mar 2025 18:37		YP/AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO031925

Review By	yogesh	Review On	3/18/2025 3:19:21 PM		
Supervise By	mohammad	Supervise On	3/24/2025 3:02:46 AM		
SubDirectory	PO031925	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PO109988.D	18 Mar 2025 18:54		YP/AJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PO109989.D	18 Mar 2025 19:13		YP/AJ	Ok
21	AR1254ICC750	AR1254ICC750	PO109990.D	18 Mar 2025 19:31		YP/AJ	Ok
22	AR1254ICC500	AR1254ICC500	PO109991.D	18 Mar 2025 19:49		YP/AJ	Ok
23	AR1254ICC250	AR1254ICC250	PO109992.D	18 Mar 2025 20:07		YP/AJ	Ok
24	AR1254ICC050	AR1254ICC050	PO109993.D	18 Mar 2025 20:25		YP/AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PO109994.D	18 Mar 2025 20:43		YP/AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PO109995.D	18 Mar 2025 21:02		YP/AJ	Ok
27	AR1268ICC750	AR1268ICC750	PO109996.D	18 Mar 2025 21:20		YP/AJ	Ok
28	AR1268ICC500	AR1268ICC500	PO109997.D	18 Mar 2025 21:39		YP/AJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PO109998.D	18 Mar 2025 21:57		YP/AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PO109999.D	18 Mar 2025 22:15		YP/AJ	Ok,M
31	PO031925ICV500	ICVPO031925	PO110000.D	18 Mar 2025 22:34		YP/AJ	Ok
32	AR1242ICV500	ICVPO031925AR1242	PO110001.D	18 Mar 2025 23:47		YP/AJ	Ok
33	AR1248ICV500	ICVPO031925AR1248	PO110002.D	19 Mar 2025 00:05		YP/AJ	Ok
34	AR1254ICV500	ICVPO031925AR1254	PO110003.D	19 Mar 2025 00:24		YP/AJ	Ok
35	AR1268ICV500	ICVPO031925AR1268	PO110004.D	19 Mar 2025 00:42		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO040825

Review By	yogesh	Review On	4/8/2025 10:42:21 AM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:43 AM		
SubDirectory	PO040825	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO110291.D	08 Apr 2025 08:31		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO110292.D	08 Apr 2025 09:08		YP/AJ	Ok
3	AR1242CCC500	AR1242CCC500	PO110293.D	08 Apr 2025 09:27		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO110294.D	08 Apr 2025 09:45		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO110295.D	08 Apr 2025 10:04		YP/AJ	Ok,M
6	I.BLK	I.BLK	PO110296.D	08 Apr 2025 10:21		YP/AJ	Ok
7	Q1730-05	OU4-VSL-17-040325	PO110297.D	08 Apr 2025 10:39		YP/AJ	Ok
8	Q1730-07	OU4-PCS-TC-21-04032	PO110298.D	08 Apr 2025 10:58		YP/AJ	Ok
9	Q1730-09	OU4-PCS-TC-22-04032	PO110299.D	08 Apr 2025 11:16		YP/AJ	Ok
10	Q1730-11	OU4-PCS-TC-23-04032	PO110300.D	08 Apr 2025 11:35		YP/AJ	Ok
11	Q1730-13	OU4-PCS-TC-24-04032	PO110301.D	08 Apr 2025 11:53		YP/AJ	Ok
12	AR1660CCC500	AR1660CCC500	PO110302.D	08 Apr 2025 12:58		YP/AJ	Ok
13	AR1242CCC500	AR1242CCC500	PO110303.D	08 Apr 2025 13:17		YP/AJ	Ok
14	AR1248CCC500	AR1248CCC500	PO110304.D	08 Apr 2025 13:35		YP/AJ	Ok
15	AR1254CCC500	AR1254CCC500	PO110305.D	08 Apr 2025 13:53		YP/AJ	Ok
16	I.BLK	I.BLK	PO110306.D	08 Apr 2025 14:12		YP/AJ	Ok
17	PB167515BL	PB167515BL	PO110307.D	08 Apr 2025 14:30		YP/AJ	Ok
18	PB167515BS	PB167515BS	PO110308.D	08 Apr 2025 14:49		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO040825

Review By	yogesh	Review On	4/8/2025 10:42:21 AM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:43 AM		
SubDirectory	PO040825	HP Acquire Method		HP Processing Method	PO031925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167515BSD	PB167515BSD	PO110309.D	08 Apr 2025 15:07		YP/AJ	Ok
20	Q1735-04	0401-A-0401-B-COMP	PO110310.D	08 Apr 2025 15:25		YP/AJ	Ok
21	Q1746-05	B-158-GW01	PO110311.D	08 Apr 2025 15:44		YP/AJ	Ok
22	Q1746-06	B-149-GW01	PO110312.D	08 Apr 2025 16:02		YP/AJ	Ok
23	Q1746-07	EB-2025-4-7	PO110313.D	08 Apr 2025 16:20		YP/AJ	Ok
24	Q1739-01	WC-LIQUID-20250404	PO110314.D	08 Apr 2025 16:39	AR1254 Hit	YP/AJ	Ok,M
25	AR1660CCC500	AR1660CCC500	PO110315.D	08 Apr 2025 17:54		YP/AJ	Ok
26	AR1242CCC500	AR1242CCC500	PO110316.D	08 Apr 2025 18:49		YP/AJ	Ok
27	AR1248CCC500	AR1248CCC500	PO110317.D	08 Apr 2025 19:08		YP/AJ	Ok
28	AR1254CCC500	AR1254CCC500	PO110318.D	08 Apr 2025 19:25		YP/AJ	Ok
29	I.BLK	I.BLK	PO110319.D	08 Apr 2025 19:43		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP070915.D	27 Mar 2025 09:58		YP\AJ	Ok
2	I.BLK	I.BLK	PP070916.D	27 Mar 2025 10:14		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP070917.D	27 Mar 2025 10:30		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP070918.D	27 Mar 2025 10:47		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP070919.D	27 Mar 2025 11:03		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP070920.D	27 Mar 2025 11:19		YP\AJ	Ok,M
7	AR1660ICC050	AR1660ICC050	PP070921.D	27 Mar 2025 11:35		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP070922.D	27 Mar 2025 11:52		YP\AJ	Ok
9	AR1232ICC500	AR1232ICC500	PP070923.D	27 Mar 2025 12:11		YP\AJ	Ok,M
10	AR1242ICC1000	AR1242ICC1000	PP070924.D	27 Mar 2025 12:28		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP070925.D	27 Mar 2025 12:44		YP\AJ	Ok
12	AR1242ICC500	AR1242ICC500	PP070926.D	27 Mar 2025 13:00		YP\AJ	Ok
13	AR1242ICC250	AR1242ICC250	PP070927.D	27 Mar 2025 13:16		YP\AJ	Ok
14	AR1242ICC050	AR1242ICC050	PP070928.D	27 Mar 2025 13:33		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP070929.D	27 Mar 2025 13:49		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP070930.D	27 Mar 2025 14:05		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP070931.D	27 Mar 2025 14:22		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP070932.D	27 Mar 2025 14:38		YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP070933.D	27 Mar 2025 14:55		YP\AJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PP070934.D	27 Mar 2025 15:11		YP\AJ	Ok,M
21	AR1254ICC750	AR1254ICC750	PP070935.D	27 Mar 2025 15:27		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP070936.D	27 Mar 2025 15:43		YP\AJ	Ok
23	AR1254ICC250	AR1254ICC250	PP070937.D	27 Mar 2025 16:00		YP\AJ	Ok,M
24	AR1254ICC050	AR1254ICC050	PP070938.D	27 Mar 2025 16:16		YP\AJ	Ok
25	AR1262ICC500	AR1262ICC500	PP070939.D	27 Mar 2025 16:32		YP\AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PP070940.D	27 Mar 2025 16:48		YP\AJ	Ok,M
27	AR1268ICC750	AR1268ICC750	PP070941.D	27 Mar 2025 17:05		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP070942.D	27 Mar 2025 17:21		YP\AJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PP070943.D	27 Mar 2025 17:37		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP070944.D	27 Mar 2025 17:53		YP\AJ	Ok,M
31	PP032725ICV500	ICVPP032725	PP070945.D	27 Mar 2025 18:26		YP\AJ	Ok
32	AR1242ICV500	ICVPP032725AR1242	PP070946.D	27 Mar 2025 18:42		YP\AJ	Ok
33	AR1248ICV500	ICVPP032725AR1248	PP070947.D	27 Mar 2025 19:15		YP\AJ	Ok
34	AR1254ICV500	ICVPP032725AR1254	PP070948.D	27 Mar 2025 19:47		YP\AJ	Ok,M
35	AR1268ICV500	ICVPP032725AR1268	PP070949.D	27 Mar 2025 20:20		YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP071135.D	08 Apr 2025 08:39		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP071136.D	08 Apr 2025 09:37		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP071137.D	08 Apr 2025 09:56		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP071138.D	08 Apr 2025 10:33		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP071139.D	08 Apr 2025 10:49		YP\AJ	Ok
6	I.BLK	I.BLK	PP071140.D	08 Apr 2025 11:05		YP\AJ	Ok
7	PB167469BL	PB167469BL	PP071141.D	08 Apr 2025 11:23	not required	YP\AJ	Not Ok
8	Q1730-15	OU4-PCS-TC-25-04032	PP071142.D	08 Apr 2025 11:39		YP\AJ	Ok
9	Q1730-17	OU4-PCS-TC-26-04032	PP071143.D	08 Apr 2025 11:56		YP\AJ	Ok
10	Q1730-19	OU4-CF-15-040325	PP071144.D	08 Apr 2025 12:12	DCB High in 2ND column	YP\AJ	Ok
11	Q1740-01	TP-20	PP071145.D	08 Apr 2025 13:08		YP\AJ	Ok
12	Q1742-01	TR-06-040725	PP071146.D	08 Apr 2025 13:25		YP\AJ	Ok,M
13	Q1742-01MS	TR-06-040725MS	PP071147.D	08 Apr 2025 13:41		YP\AJ	Ok,M
14	Q1742-01MSD	TR-06-040725MSD	PP071148.D	08 Apr 2025 13:57		YP\AJ	Ok,M
15	Q1743-01	TP-16	PP071149.D	08 Apr 2025 14:14	AR1260 Hit	YP\AJ	Ok,M
16	Q1744-01	B-158-SB01	PP071150.D	08 Apr 2025 14:30	TCMX High in 2nd column	YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP071151.D	08 Apr 2025 15:29		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP071152.D	08 Apr 2025 16:02		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PP071153.D	08 Apr 2025 16:18		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP071154.D	08 Apr 2025 16:34		YP\AJ	Ok
21	I.BLK	I.BLK	PP071155.D	08 Apr 2025 16:51		YP\AJ	Ok
22	PB167507BL	PB167507BL	PP071156.D	08 Apr 2025 17:07		YP\AJ	Ok
23	PB167507BS	PB167507BS	PP071157.D	08 Apr 2025 17:23		YP\AJ	Ok
24	Q1744-03	B-158-SB02	PP071158.D	08 Apr 2025 17:40		YP\AJ	Ok
25	Q1745-01	IB-6A-WC	PP071159.D	08 Apr 2025 17:56		YP\AJ	Ok,M
26	Q1745-09	IB-6.5-WC	PP071160.D	08 Apr 2025 18:12		YP\AJ	Ok,M
27	Q1746-01	B-149-SB01	PP071161.D	08 Apr 2025 18:28		YP\AJ	Ok
28	Q1746-03	B-149-SB02	PP071162.D	08 Apr 2025 18:45		YP\AJ	Ok
29	Q1747-01	ARS20-0008	PP071163.D	08 Apr 2025 19:01		YP\AJ	Ok,M
30	AR1660CCC500	AR1660CCC500	PP071164.D	08 Apr 2025 20:28		YP\AJ	Ok
31	AR1242CCC500	AR1242CCC500	PP071165.D	08 Apr 2025 21:17		YP\AJ	Ok
32	AR1248CCC500	AR1248CCC500	PP071166.D	08 Apr 2025 21:33		YP\AJ	Ok
33	AR1254CCC500	AR1254CCC500	PP071167.D	08 Apr 2025 21:49		YP\AJ	Ok
34	I.BLK	I.BLK	PP071168.D	08 Apr 2025 22:05		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167507

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: Acid Cleanup

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 04/08/2025

Extraction Start Time : 08:11

Extraction End Date : 04/08/2025

Extraction End Time : 11:25

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24328
Surrogate	1.0ML	200 PPB	PP24217
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2601
Baked Na2SO4	N/A	EP2599
Sand	N/A	E2865
Hexane	N/A	E3916
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25	RP (Ext. Lab)	R-Pest/PCB Lab
11:30	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167507

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167507BL	ABLK507	PCB	30.02	N/A	ritesh	Evelyn	10			U7-1
PB167507BS	ALCS507	PCB	30.01	N/A	ritesh	Evelyn	10			2
Q1740-01	TP-20	PCB	30.05	N/A	ritesh	Evelyn	10	E		3
Q1742-01	TR-06-040725	PCB	30.03	N/A	ritesh	Evelyn	10	E		4
Q1742-01MS	TR-06-040725MS	PCB	30.06	N/A	ritesh	Evelyn	10	E		5
Q1742-01MSD	TR-06-040725MSD	PCB	30.09	N/A	ritesh	Evelyn	10	E		6
Q1743-01	TP-16	PCB	30.04	N/A	ritesh	Evelyn	10	D		U2-1
Q1744-01	B-158-SB01	PCB	30.02	N/A	ritesh	Evelyn	10	E		2
Q1744-03	B-158-SB02	PCB	30.09	N/A	ritesh	Evelyn	10	E		3
Q1745-01	IB-6A-WC	PCB	30.07	N/A	ritesh	Evelyn	10	D		4
Q1745-09	IB-6.5-WC	PCB	30.08	N/A	ritesh	Evelyn	10	D		5
Q1746-01	B-149-SB01	PCB	30.06	N/A	ritesh	Evelyn	10	E		6
Q1746-03	B-149-SB02	PCB	30.02	N/A	ritesh	Evelyn	10	F		U3-1
Q1747-01	ARS20-0008	PCB	30.03	N/A	ritesh	Evelyn	10	E		2

* **Extracts relinquished on the same date as received.**

4/8/25

8:11
167587

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 1740 **WorkList ID :** 188788 **Department :** Extraction **Date :** 04-08-2025 08:08:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	PCB	Cool 4 deg C	PSEG03	L21	04/04/2025	8082A
Q1742-01	TR-06-040725	Solid	PCB	Cool 4 deg C	PSEG05		04/04/2025	8082A
Q1743-01	TP-16	Solid	PCB	Cool 4 deg C	PSEG03	L33	04/07/2025	8082A
Q1744-01	B-158-SB01	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1744-03	B-158-SB02	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1745-01	IB-6A-WC	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/07/2025	8082A
Q1745-09	IB-6.5-WC	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/07/2025	8082A
Q1746-01	B-149-SB01	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1746-03	B-149-SB02	Solid	PCB	Cool 4 deg C	PORT06	L41	04/06/2025	8082A
Q1747-01	ARS20-0008	Solid	PCB	Cool 4 deg C	PSEG03	I41	04/07/2025	8082A

Date/Time 04/08/25 8:10
Raw Sample Received by: RJ (Ent log)
Raw Sample Relinquished by: CP SM

Date/Time 04/08/25 8:35
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ent log)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167515

SOP ID: M3510C,3580A-Extraction PCB-14

Clean Up SOP #: Acid Cleanup

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 04/08/2025

Extraction Start Time : 08:25

Extraction End Date : 04/08/2025

Extraction End Time : 13:30

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24328
Surrogate	1.0ML	200 PPB	PP24217
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3904
Baked Na2SO4	N/A	EP2599
Hexane	N/A	E3916
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40BTS721.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25	RP (Ext Lab)	R - Pest/PCB Lab
13:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167515

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167515BL	ABLK515	PCB	1000	6	ritesh	rajesh	10			SEP-01
PB167515BS	ALCS515	PCB	1000	6	ritesh	rajesh	10			2
PB167515BSD	ALCSD515	PCB	1000	6	ritesh	rajesh	10			3
Q1735-04	0401-A-0401-B-COMP	PCB	990	6	ritesh	rajesh	10	B		4
Q1739-01	WC-LIQUID-20250404	PCB	970	6	ritesh	rajesh	10	H	Oily	5
Q1746-05	B-158-GW01	PCB	980	6	ritesh	rajesh	10	F		6
Q1746-06	B-149-GW01	PCB	980	6	ritesh	rajesh	10	F		7
Q1746-07	EB-2025-4-7	PCB	990	6	ritesh	rajesh	10	F		8

* **Extracts relinquished on the same date as received.**

4/8/25

16TJ15
15:25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1735 **WorkList ID :** 188794 **Department :** Extraction **Date :** 04-08-2025 08:16:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1735-04	0401-A-0401-B-COMP	Water	PCB	Cool 4 deg C	PSEG03	L31	04/04/2025	8082A
Q1739-01	WC-LIQUID-20250404	Water	PCB	Cool 4 deg C	PARS02	L31	04/04/2025	8082A
Q1746-05	B-158-GW01	Water	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1746-06	B-149-GW01	Water	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1746-07	EB-2025-4-7	Water	PCB	Cool 4 deg C	PORT06	L41	04/07/2025	8082A

Date/Time 04/08/25 8:20
Raw Sample Received by: RJ (Cal Ltd)
Raw Sample Relinquished by:

Date/Time 04/08/25 8:50
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Cal Ltd)

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
Q1746-05	**B-158-GW01**	**WATER**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
Q1746-06	**B-149-GW01**	**WATER**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
Q1746-07	**EB-2025-4-7**	**WATER**			**04/07/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1746 **Order ID:** Q1746

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

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TECHNICAL GROUP

SAMPLE DATA

Raw Data: **PS029771.D**

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1746
Lab Sample ID:	PB167517TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029771.D	1	04/09/25 12:55	04/09/25 23:47	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	621		70 (39) - 130 (175)	124%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS029776.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-02	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029776.D	1	04/09/25 12:55	04/10/25 02:58	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	622		70 (39) - 130 (175)	124%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS029777.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-04	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029777.D	1	04/09/25 12:55	04/10/25 03:22	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	636		70 (39) - 130 (175)	127%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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() = Laboratory InHouse Limit

QC
SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS029656.D	PIBLK-PS029656.D	2,4-DCAA	1	500	476	95		70 (39)	130 (175)
		2,4-DCAA	2	500	485	97		70 (39)	130 (175)
I.BLK-PS029763.D	PIBLK-PS029763.D	2,4-DCAA	1	500	594	119		70 (39)	130 (175)
		2,4-DCAA	2	500	582	116		70 (39)	130 (175)
Q1739-02MS	WC-LIQUID-20250404MS	2,4-DCAA	1	500	589	118		70 (39)	130 (175)
		2,4-DCAA	2	500	645	129		70 (39)	130 (175)
Q1739-02MSD	WC-LIQUID-20250404MSD	2,4-DCAA	1	500	593	119		70 (39)	130 (175)
		2,4-DCAA	2	500	656	131	*	70 (39)	130 (175)
PB167536BL	PB167536BL	2,4-DCAA	1	500	559	112		70 (39)	130 (175)
		2,4-DCAA	2	500	539	108		70 (39)	130 (175)
PB167536BS	PB167536BS	2,4-DCAA	1	500	556	111		70 (39)	130 (175)
		2,4-DCAA	2	500	581	116		70 (39)	130 (175)
PB167517TB	PB167517TB	2,4-DCAA	1	500	621	124		70 (39)	130 (175)
		2,4-DCAA	2	500	588	118		70 (39)	130 (175)
I.BLK-PS029772.D	PIBLK-PS029772.D	2,4-DCAA	1	500	618	124		70 (39)	130 (175)
		2,4-DCAA	2	500	610	122		70 (39)	130 (175)
Q1746-02	B-149-SB01	2,4-DCAA	1	500	622	124		70 (39)	130 (175)
		2,4-DCAA	2	500	588	118		70 (39)	130 (175)
Q1746-04	B-149-SB02	2,4-DCAA	1	500	636	127		70 (39)	130 (175)
		2,4-DCAA	2	500	598	120		70 (39)	130 (175)
I.BLK-PS029778.D	PIBLK-PS029778.D	2,4-DCAA	1	500	563	113		70 (39)	130 (175)
		2,4-DCAA	2	500	550	110		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS029766.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-LIQUID-20250404MS**											
Q1739-02MS	2,4-D	50	0	58.8	ug/L	118				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	60.7	ug/L	121				70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS029767.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**WC-LIQUID-20250404MSD**											
Q1739-02MSD	2,4-D	50	0	60.0	ug/L	120		2		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	62.0	ug/L	124		2		70 (62)	130 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1746

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS029769.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167536BS	2,4-D	5	5.70	ug/L	114				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.80	ug/L	116				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167536BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab Sample ID: PB167536BL Lab File ID: PS029768.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 04/09/2025

Date Analyzed (1): 04/09/2025 Date Analyzed (2): 04/09/2025

Time Analyzed (1): 22:34 Time Analyzed (2): 22:34

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
WC-LIQUID-20250404MS	Q1739-02MS	PS029766.D	04/09/2025	04/09/2025
WC-LIQUID-20250404MSD	Q1739-02MSD	PS029767.D	04/09/2025	04/09/2025
PB167536BS	PB167536BS	PS029769.D	04/09/2025	04/09/2025
PB167517TB	PB167517TB	PS029771.D	04/09/2025	04/09/2025
B-149-SB01	Q1746-02	PS029776.D	04/10/2025	04/10/2025
B-149-SB02	Q1746-04	PS029777.D	04/10/2025	04/10/2025

COMMENTS:

QC SAMPLE DATA

Raw Data: **PS029768.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167536BL	SDG No.:	Q1746
Lab Sample ID:	PB167536BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029768.D	1	04/09/25 12:55	04/09/25 22:34	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	559		70 (39) - 130 (175)	112%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/02/25
Client Sample ID:	PIBLK-PS029656.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PS029656.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029656.D	1		04/02/25	PS040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	485		70 (39) - 130 (175)	97%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PS029763.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PS029763.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029763.D	1		04/09/25	ps040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	594		70 (39) - 130 (175)	119%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/10/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/10/25
Client Sample ID:	PIBLK-PS029772.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PS029772.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029772.D	1		04/10/25	ps040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	618		70 (39) - 130 (175)	124%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/10/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/10/25
Client Sample ID:	PIBLK-PS029778.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-PS029778.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029778.D	1		04/10/25	ps040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	563		70 (39) - 130 (175)	113%	SPK: 500

Comments:

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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PS029769.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167536BS	SDG No.:	Q1746
Lab Sample ID:	PB167536BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029769.D	1	04/09/25 12:55	04/09/25 22:58	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.70		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.80		0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	581		70 (39) - 130 (175)	116%	SPK: 500

Comments:

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LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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Raw Data: **PS029766.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MS	SDG No.:	Q1746
Lab Sample ID:	Q1739-02MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029766.D	1	04/09/25 12:55	04/09/25 21:46	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	58.8		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	60.7		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	645		70 (39) - 130 (175)	129%	SPK: 500

Comments:

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
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() = Laboratory InHouse Limit

Raw Data: **PS029767.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MSD	SDG No.:	Q1746
Lab Sample ID:	Q1739-02MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029767.D	1	04/09/25 12:55	04/09/25 22:10	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	60.0		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	62.0		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	656	*	70 (39) - 130 (175)	131%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029657.D RT 500 = PS029658.D

RT 750 = PS029659.D RT 1000 = PS029660.D RT 1500 = PS029661.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
2,4-D	8.04	8.04	8.04	8.04	8.04	8.04	7.94	8.14
2,4-DCAA	6.96	6.96	6.96	6.96	6.96	6.96	6.86	7.06

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029657.D RT 500 = PS029658.D

RT 750 = PS029659.D RT 1000 = PS029660.D RT 1500 = PS029661.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.55	9.55	9.55	9.55	9.55	9.55	9.45	9.65
2,4-D	8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
2,4-DCAA	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029657.D **CF 500 =** PS029658.D

CF 750 = PS029659.D **CF 1000 =** PS029660.D **CF 1500 =** PS029661.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	12727900000	11569300000	11320400000	11249800000	11209500000	11615400000	5
2,4-D	2821030000	2334770000	2267580000	2246770000	2377810000	2409590000	10
2,4-DCAA	2302820000	2069000000	1979340000	1949030000	1893970000	2038830000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029657.D **CF 500 =** PS029658.D

CF 750 = PS029659.D **CF 1000 =** PS029660.D **CF 1500 =** PS029661.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	7615620000	7063890000	7056380000	7090810000	7238100000	7212960000	3
2,4-D	1263680000	1033640000	1003030000	1003730000	1088250000	1078460000	10
2,4-DCAA	756673000	677593000	660102000	658637000	654559000	681513000	6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 20:34 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.94	6.96	6.86	7.06	0.02
2,4-D	8.02	8.04	7.94	8.14	0.02
2,4,5-TP(Silvex)	8.86	8.89	8.79	8.99	0.03

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 20:34 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.47	7.48	7.38	7.58	0.01
2,4-D	8.66	8.67	8.57	8.77	0.01
2,4,5-TP(Silvex)	9.54	9.55	9.45	9.65	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029764.D **Time Analyzed:** 20:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.863	8.788	8.988	735.080	712.500	3.2
2,4-D	8.020	7.942	8.142	723.340	705.000	2.6
2,4-DCAA	6.943	6.863	7.063	740.470	750.000	-1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029764.D **Time Analyzed:** 20:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.538	9.451	9.651	765.850	712.500	7.5
2,4-D	8.659	8.571	8.771	705.850	705.000	0.1
2,4-DCAA	7.467	7.375	7.575	764.180	750.000	1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 01:46 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.94	6.96	6.86	7.06	0.02
2,4-D	8.01	8.04	7.94	8.14	0.03
2,4,5-TP(Silvex)	8.85	8.89	8.79	8.99	0.04

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 01:46 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.48	7.48	7.38	7.58	0.00
2,4-D	8.67	8.67	8.57	8.77	0.00
2,4,5-TP(Silvex)	9.55	9.55	9.45	9.65	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029773.D **Time Analyzed:** 01:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.853	8.788	8.988	800.440	712.500	12.3
2,4-D	8.012	7.942	8.142	758.180	705.000	7.5
2,4-DCAA	6.936	6.863	7.063	810.730	750.000	8.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029773.D **Time Analyzed:** 01:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.553	9.451	9.651	813.430	712.500	14.2
2,4-D	8.673	8.571	8.771	749.720	705.000	6.3
2,4-DCAA	7.478	7.375	7.575	812.560	750.000	8.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 04:10 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.96	6.96	6.86	7.06	0.01
2,4-D	8.04	8.04	7.94	8.14	0.01
2,4,5-TP(Silvex)	8.88	8.89	8.79	8.99	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 04:10 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.50	7.48	7.38	7.58	-0.01
2,4-D	8.69	8.67	8.57	8.77	-0.02
2,4,5-TP(Silvex)	9.57	9.55	9.45	9.65	-0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029779.D **Time Analyzed:** 04:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.879	8.788	8.988	715.890	712.500	0.5
2,4-D	8.035	7.942	8.142	682.280	705.000	-3.2
2,4-DCAA	6.955	6.863	7.063	735.610	750.000	-1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029779.D **Time Analyzed:** 04:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.573	9.451	9.651	730.130	712.500	2.5
2,4-D	8.692	8.571	8.771	669.740	705.000	-5.0
2,4-DCAA	7.495	7.375	7.575	718.420	750.000	-4.2

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/02/2025 04/02/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	04/02/2025	16:44	PS029656.D	6.96	0.00
HSTDICC200	HSTDICC200	04/02/2025	17:32	PS029657.D	6.96	0.00
HSTDICC500	HSTDICC500	04/02/2025	17:56	PS029658.D	6.96	0.00
HSTDICC750	HSTDICC750	04/02/2025	18:44	PS029659.D	6.96	0.00
HSTDICC1000	HSTDICC1000	04/02/2025	19:32	PS029660.D	6.96	0.00
HSTDICC1500	HSTDICC1500	04/02/2025	20:44	PS029661.D	6.96	0.00
I.BLK	I.BLK	04/09/2025	20:10	PS029763.D	6.94	0.00
HSTDCCC750	HSTDCCC750	04/09/2025	20:34	PS029764.D	6.94	0.00
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	21:46	PS029766.D	6.94	0.00
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	22:10	PS029767.D	6.94	0.00
PB167536BL	PB167536BL	04/09/2025	22:34	PS029768.D	6.94	0.00
PB167536BS	PB167536BS	04/09/2025	22:58	PS029769.D	6.94	0.00
PB167517TB	PB167517TB	04/09/2025	23:47	PS029771.D	6.94	0.00
I.BLK	I.BLK	04/10/2025	00:10	PS029772.D	6.94	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	01:46	PS029773.D	6.94	0.00
B-149-SB01	Q1746-02	04/10/2025	02:58	PS029776.D	6.96	0.00
B-149-SB02	Q1746-04	04/10/2025	03:22	PS029777.D	6.96	0.00
I.BLK	I.BLK	04/10/2025	03:46	PS029778.D	6.96	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	04:10	PS029779.D	6.96	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/02/2025 04/02/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	04/02/2025	16:44	PS029656.D	7.48	0.00
HSTDICC200	HSTDICC200	04/02/2025	17:32	PS029657.D	7.48	0.00
HSTDICC500	HSTDICC500	04/02/2025	17:56	PS029658.D	7.48	0.00
HSTDICC750	HSTDICC750	04/02/2025	18:44	PS029659.D	7.48	0.00
HSTDICC1000	HSTDICC1000	04/02/2025	19:32	PS029660.D	7.48	0.00
HSTDICC1500	HSTDICC1500	04/02/2025	20:44	PS029661.D	7.48	0.00
I.BLK	I.BLK	04/09/2025	20:10	PS029763.D	7.47	0.00
HSTDCCC750	HSTDCCC750	04/09/2025	20:34	PS029764.D	7.47	0.00
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	21:46	PS029766.D	7.47	0.00
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	22:10	PS029767.D	7.47	0.00
PB167536BL	PB167536BL	04/09/2025	22:34	PS029768.D	7.47	0.00
PB167536BS	PB167536BS	04/09/2025	22:58	PS029769.D	7.47	0.00
PB167517TB	PB167517TB	04/09/2025	23:47	PS029771.D	7.47	0.00
I.BLK	I.BLK	04/10/2025	00:10	PS029772.D	7.47	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	01:46	PS029773.D	7.48	0.00
B-149-SB01	Q1746-02	04/10/2025	02:58	PS029776.D	7.50	0.00
B-149-SB02	Q1746-04	04/10/2025	03:22	PS029777.D	7.50	0.00
I.BLK	I.BLK	04/10/2025	03:46	PS029778.D	7.50	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	04:10	PS029779.D	7.50	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167536BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Lab Sample ID: PB167536BS **Date(s) Analyzed:** 04/09/2025 04/09/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.02	7.97	8.07	5.70	1.8
	2	8.66	8.61	8.71	5.60	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	5.70	1.7
	2	9.54	9.49	9.59	5.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-LIQUID-20250404MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Lab Sample ID: Q1739-02MS **Date(s) Analyzed:** 04/09/2025 04/09/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.02	7.97	8.07	57.2	2.8
	2	8.66	8.61	8.71	58.8	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	51.8	15.8
	2	9.54	9.49	9.59	60.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-LIQUID-20250404MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1746 **SAS No.:** Q1746 **SDG NO.:** Q1746

Lab Sample ID: Q1739-02MSD **Date(s) Analyzed:** 04/09/2025 04/09/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	53.4	14.9
	2	9.54	9.49	9.59	62.0	
2,4-D	1	8.02	7.97	8.07	58.5	2.5
	2	8.66	8.61	8.71	60.0	

SAMPLE RAW DATA

Quantitation Report (QT Reviewed)

Sample Results: **PS029771.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029771.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 23:47
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.940	7.471	1266.9E6	400.7E6	621.373	587.953
	Target Compounds						

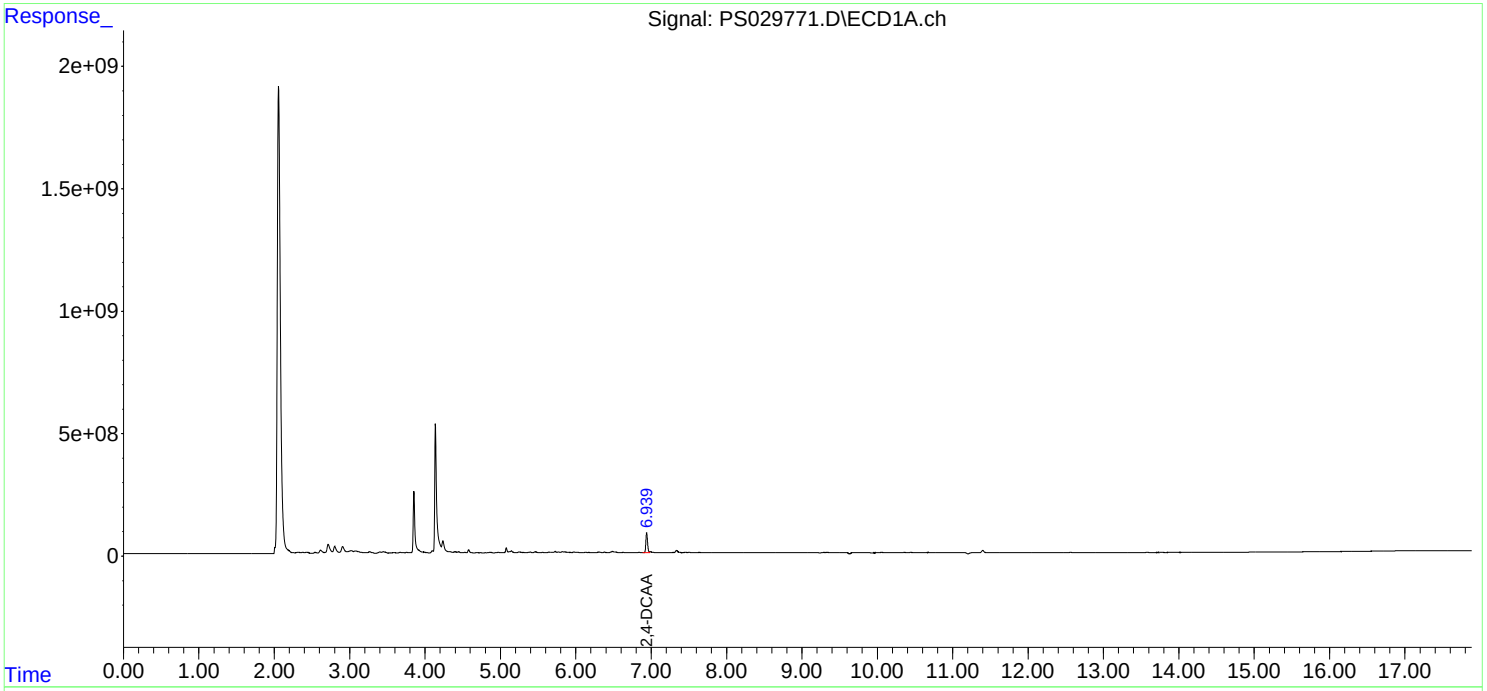
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

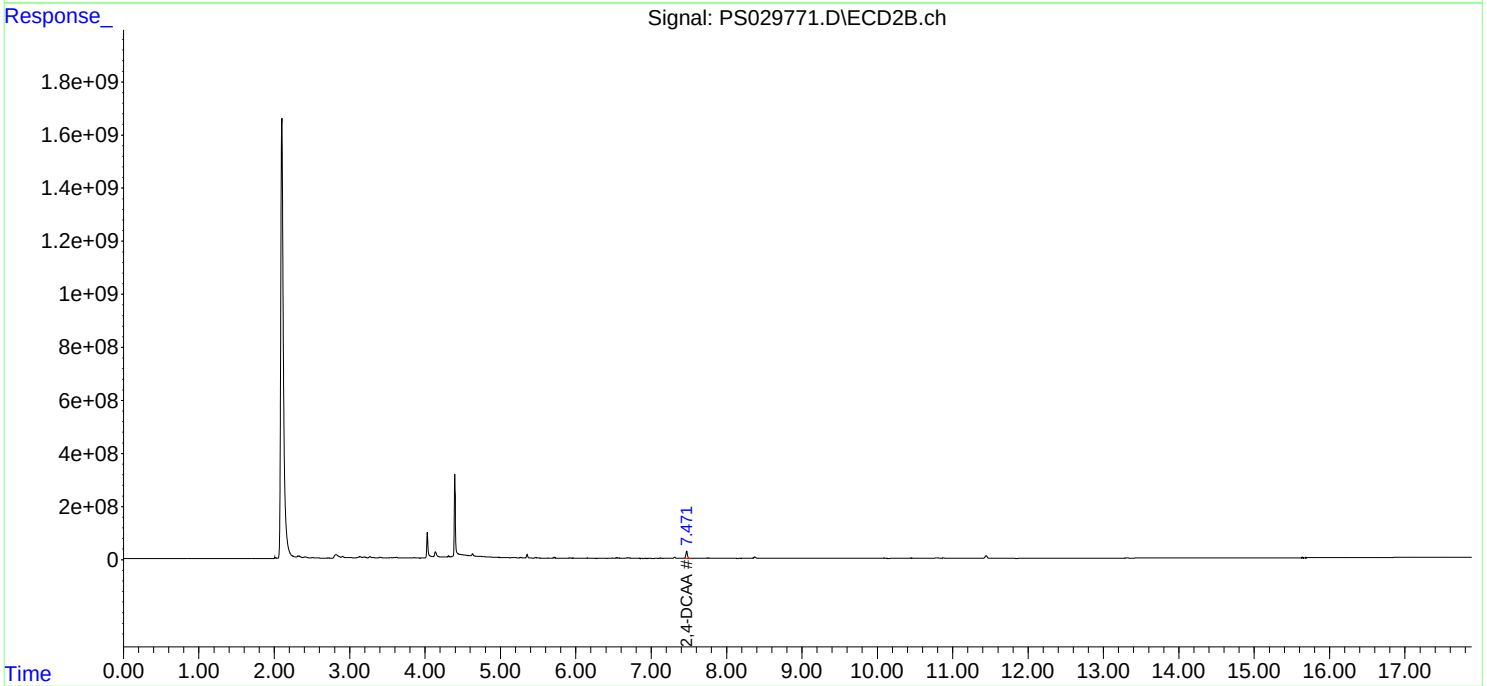
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029771.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 23:47
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 19 Sample Multiplier: 1

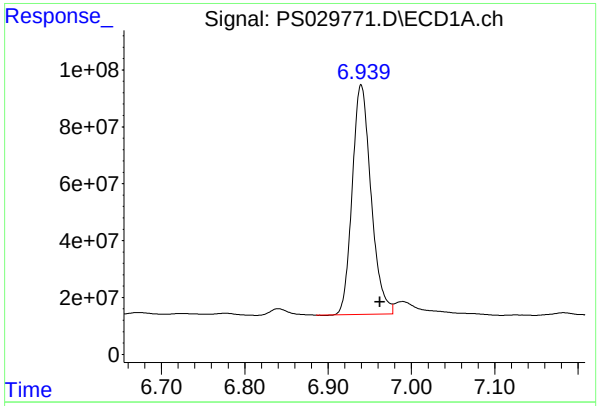
Instrument :
ECD_S
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



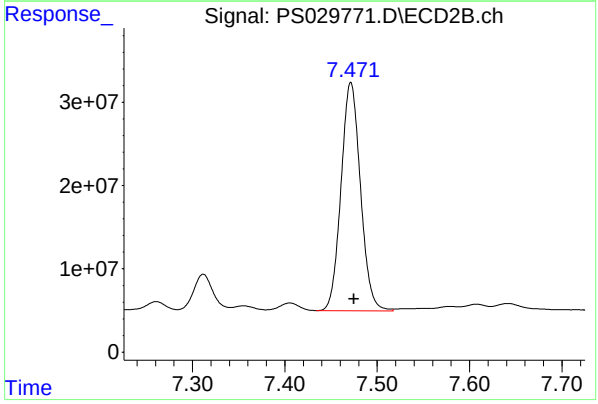




#4 2,4-DCAA

R.T.: 6.940 min
Delta R.T.: -0.023 min
Response: 1266873172
Conc: 621.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167517TB



#4 2,4-DCAA

R.T.: 7.471 min
Delta R.T.: -0.003 min
Response: 400697676
Conc: 587.95 ng/ml

Sample Results: **PS029776.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029776.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 02:58
Operator : AR\AJ
Sample : Q1746-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-149-SB01

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:25:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.955	7.495	1268.1E6	400.5E6	621.975m	587.697
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029776.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 02:58
Operator : AR\AJ
Sample : Q1746-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

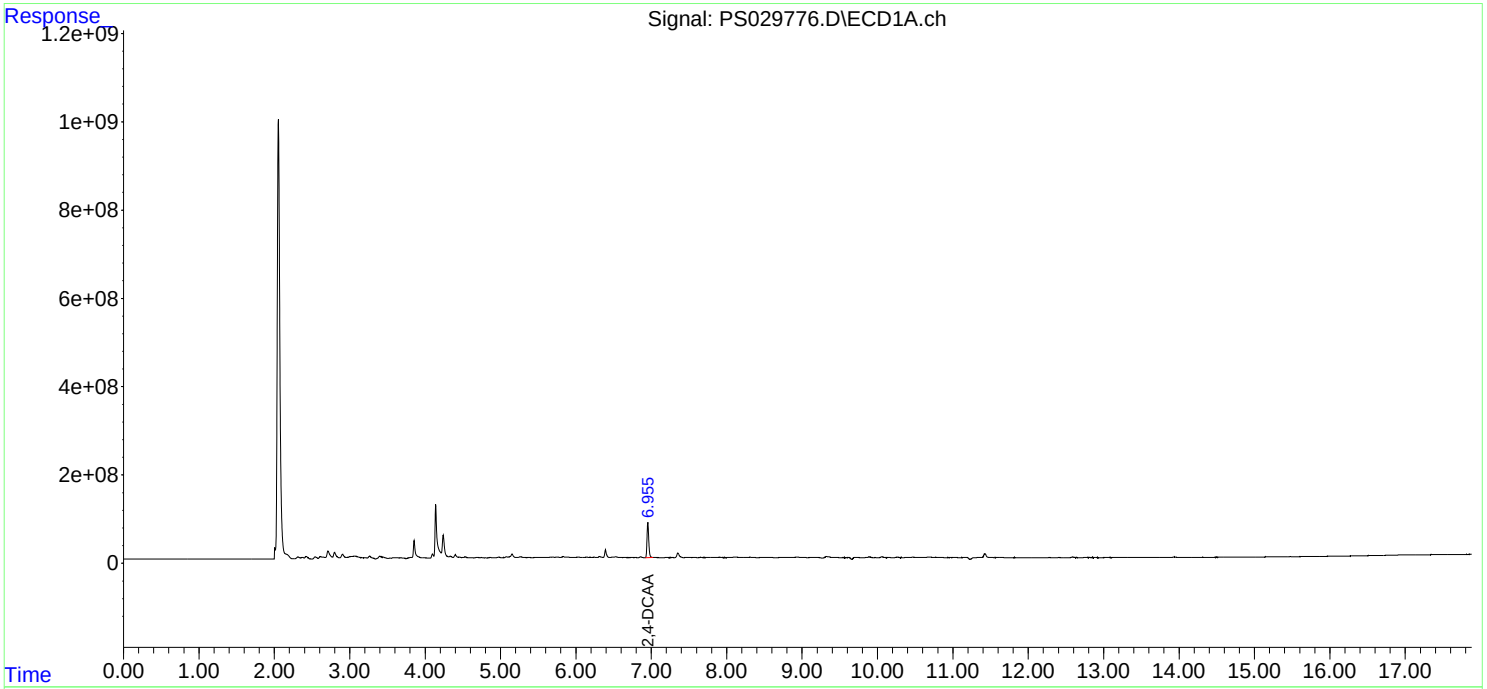
Instrument :
ECD_S
ClientSampleId :
B-149-SB01

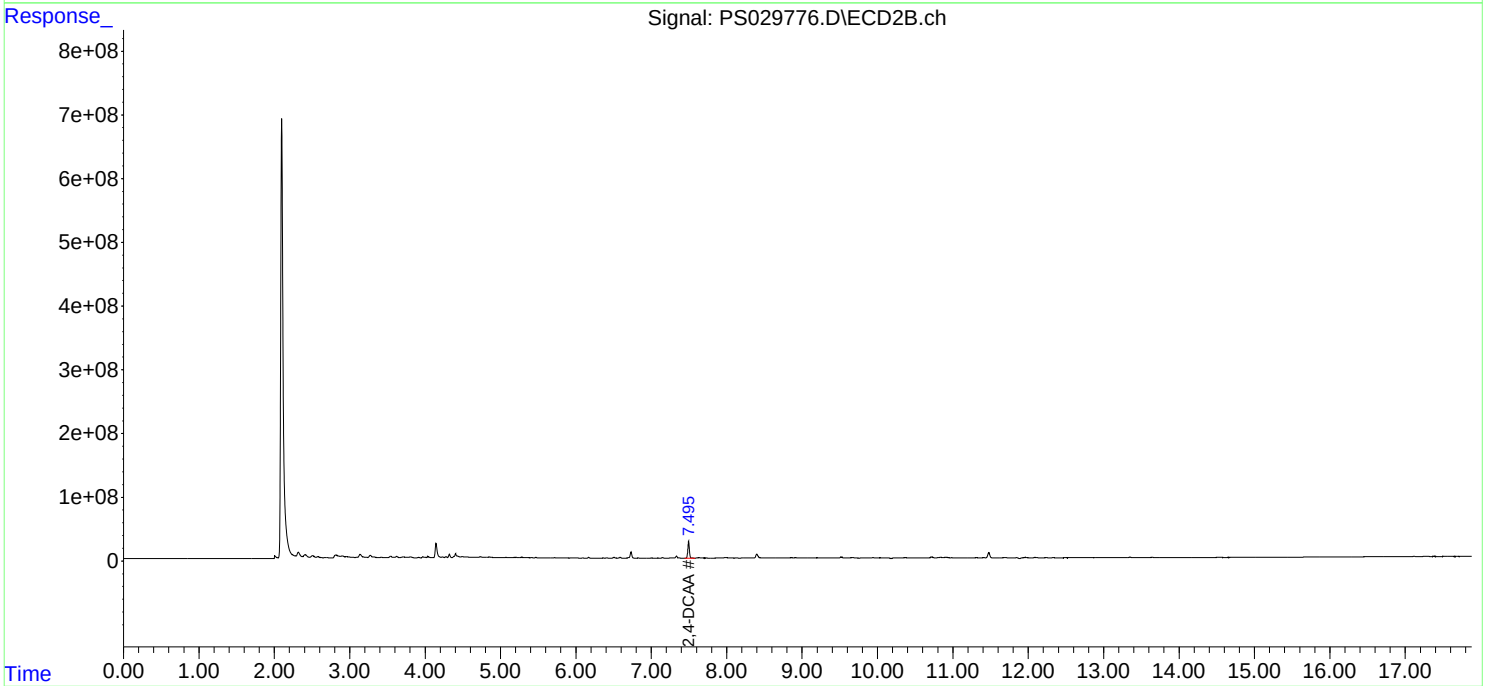
Manual Integrations APPROVED

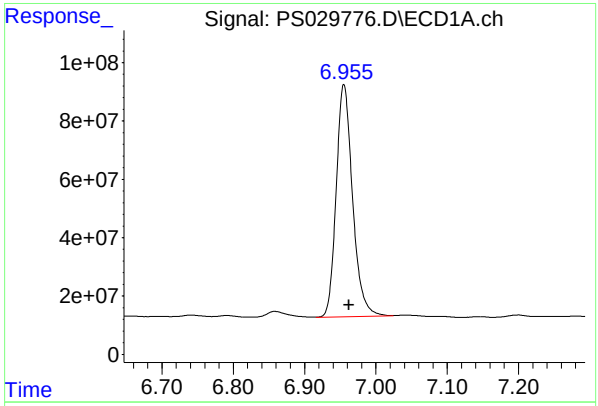
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:25:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







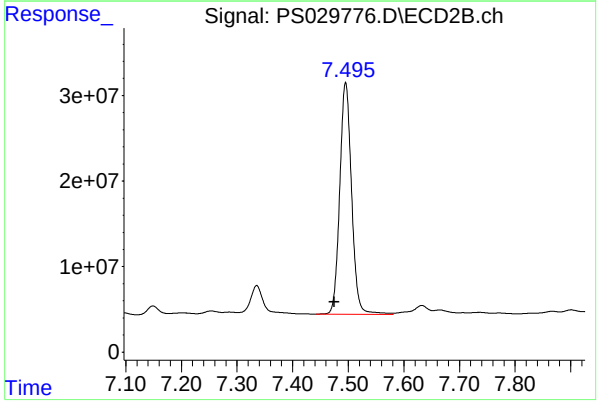
#4 2,4-DCAA

R.T.: 6.955 min
Delta R.T.: -0.008 min
Response: 1268101527
Conc: 621.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-149-SB01

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



#4 2,4-DCAA

R.T.: 7.495 min
Delta R.T.: 0.021 min
Response: 400523238
Conc: 587.70 ng/ml

Sample Results: **PS029777.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029777.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 03:22
Operator : AR\AJ
Sample : Q1746-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-149-SB02

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:25:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.955	7.496	1295.8E6	407.8E6	635.557m	598.364
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029777.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 03:22
Operator : AR\AJ
Sample : Q1746-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

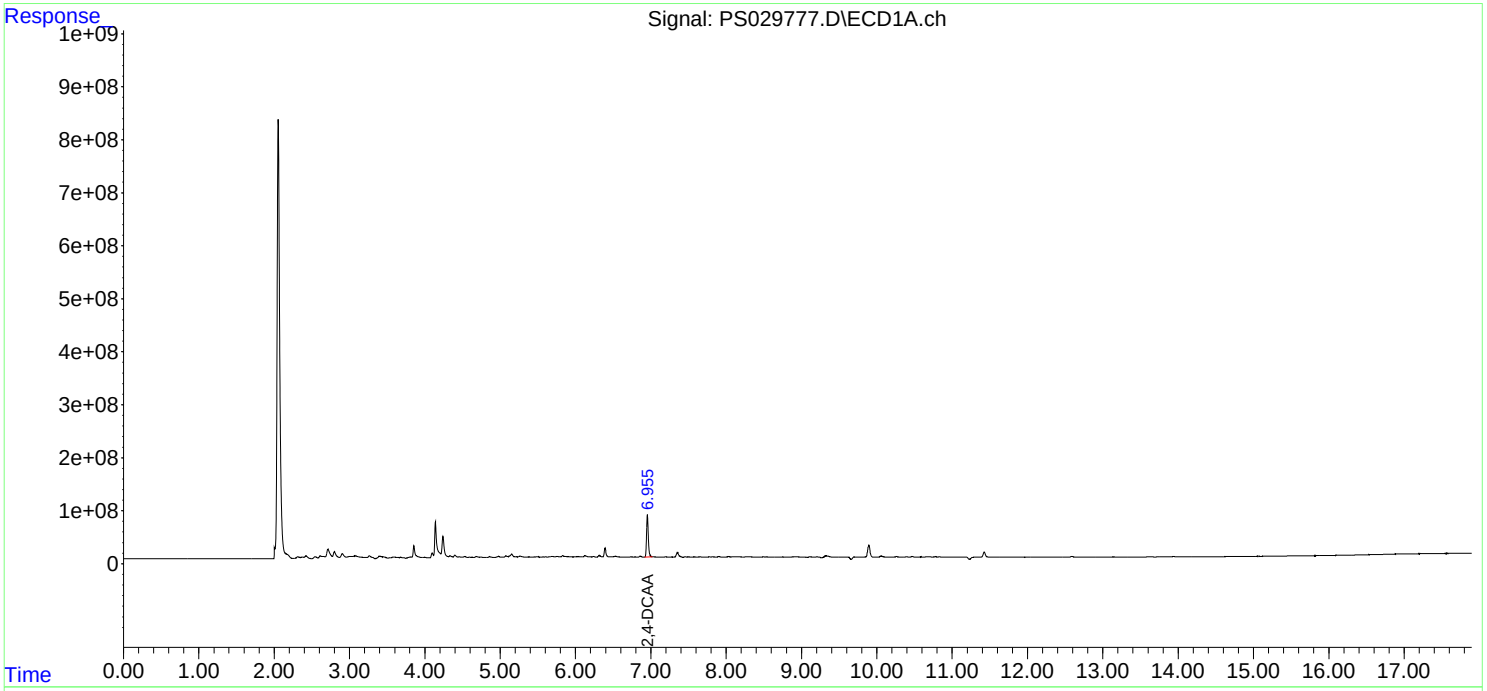
Instrument :
ECD_S
ClientSampleId :
B-149-SB02

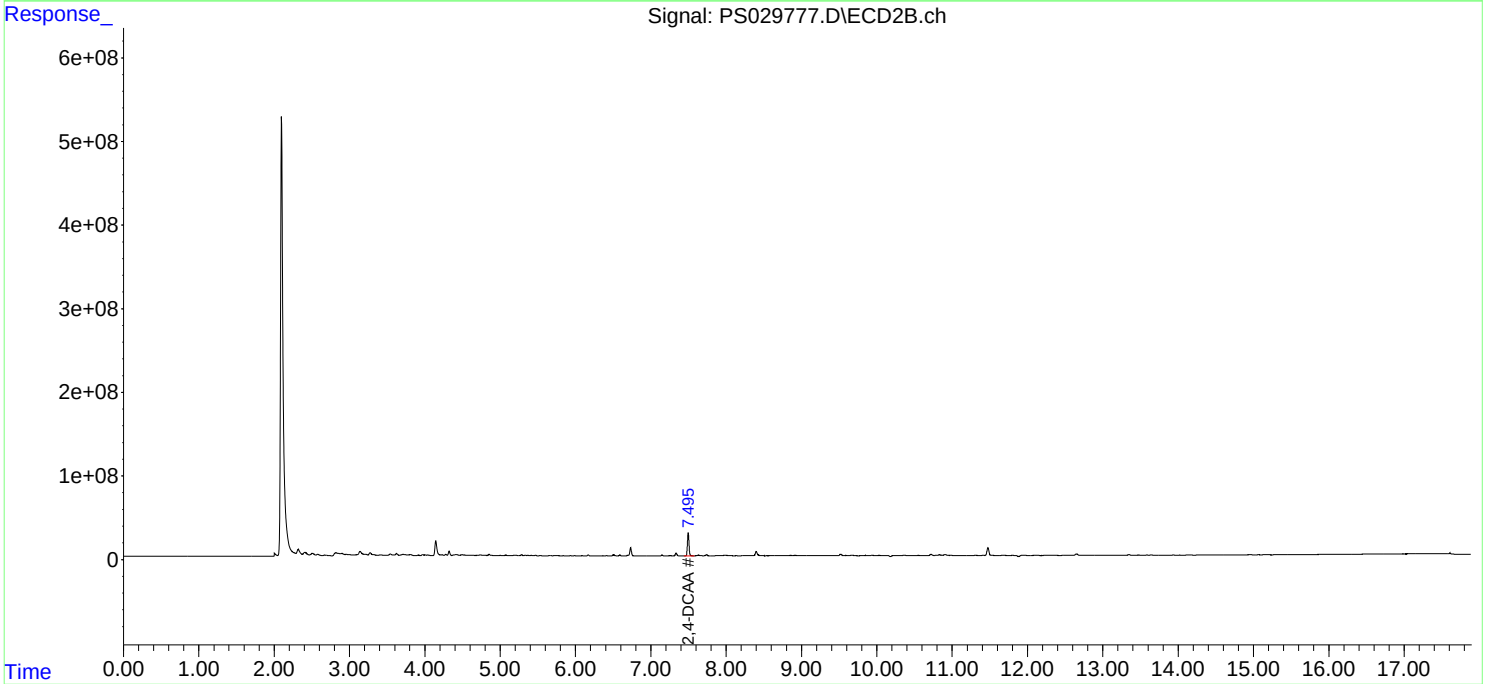
Manual Integrations APPROVED

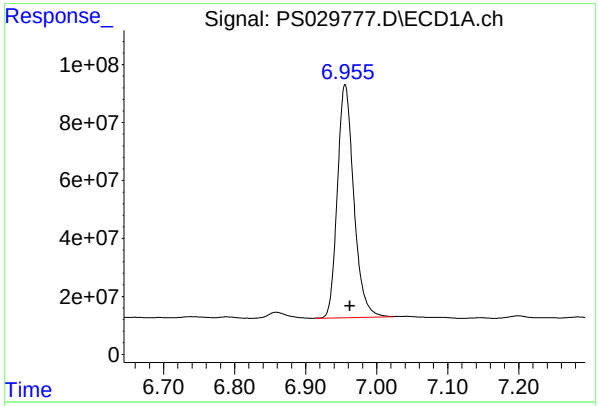
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:25:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







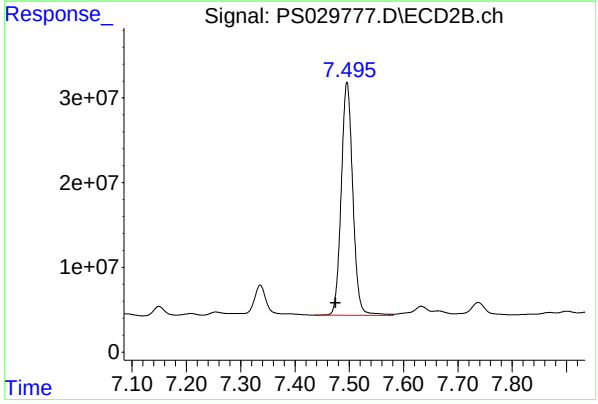
#4 2,4-DCAA

R.T.: 6.955 min
Delta R.T.: -0.007 min
Response: 1295792615
Conc: 635.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-149-SB02

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



#4 2,4-DCAA

R.T.: 7.496 min
Delta R.T.: 0.021 min
Response: 407792979
Conc: 598.36 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029768.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:34
Operator : AR\AJ
Sample : PB167536BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167536BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.940	7.470	1139.5E6	367.3E6	558.888m	538.995
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029768.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:34
Operator : AR\AJ
Sample : PB167536BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

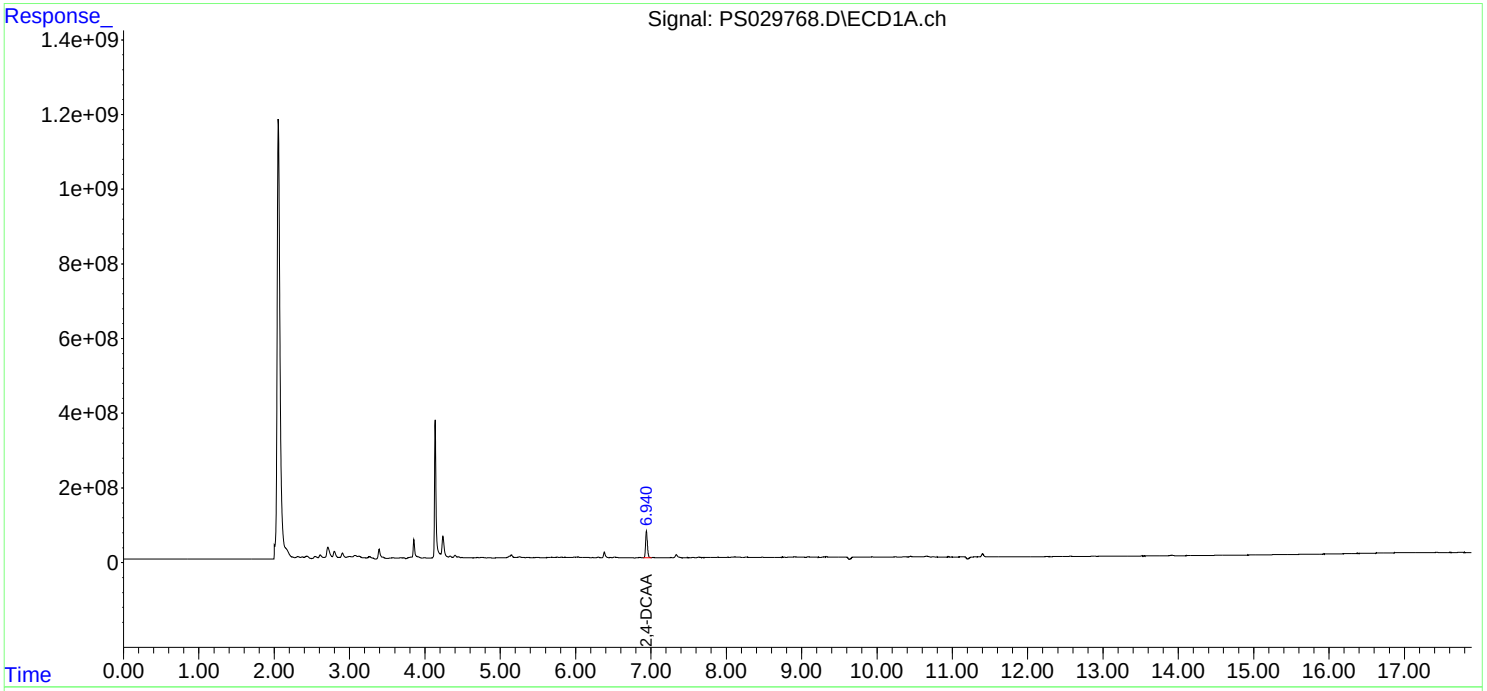
Instrument :
ECD_S
ClientSampleId :
PB167536BL

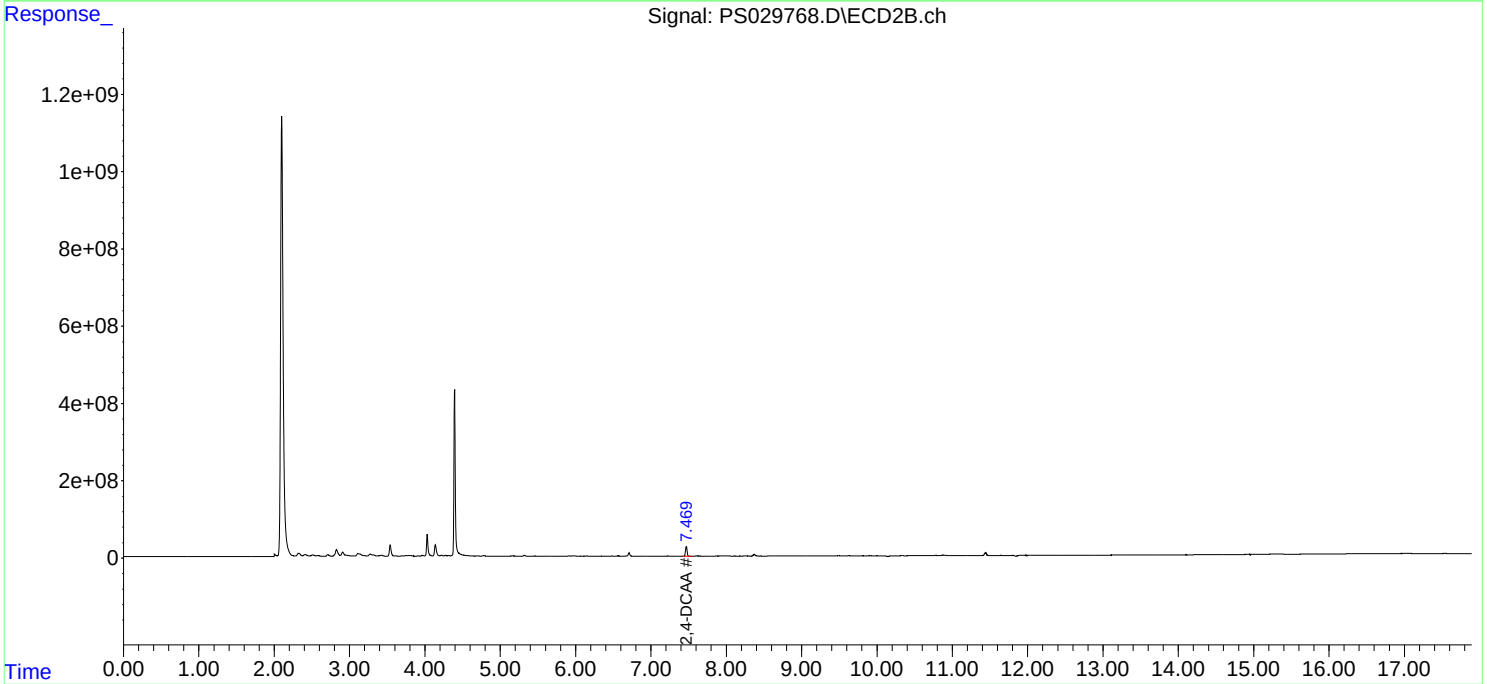
Manual Integrations APPROVED

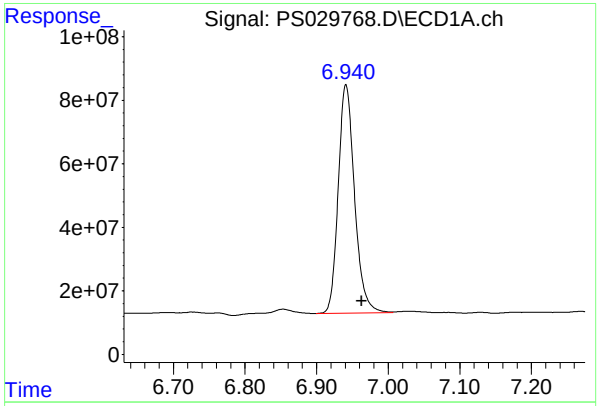
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







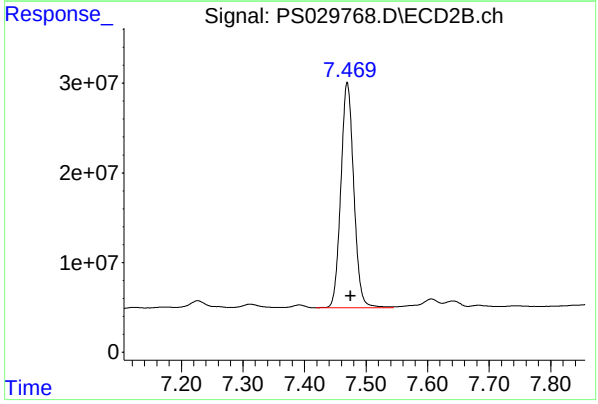
#4 2,4-DCAA

R.T.: 6.940 min
Delta R.T.: -0.022 min
Response: 1139477452
Conc: 558.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167536BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



#4 2,4-DCAA

R.T.: 7.470 min
Delta R.T.: -0.005 min
Response: 367331942
Conc: 538.99 ng/ml

Sample Results: **PS029769.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029769.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:58
Operator : AR\AJ
Sample : PB167536BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167536BS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:43:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.941	7.471	1134.4E6	396.0E6	556.398	581.104
	Target Compounds						
1) T	Dalapon	2.459	2.531	1730.5E6	761.5E6	510.107	479.628
2) T	3,5-DICHL...	6.147	6.467	1676.7E6	509.7E6	557.474m	527.858
3) T	4-Nitroph...	6.733	7.005	800.5E6	361.5E6	569.859	509.911
5) T	DICAMBA	7.117	7.657	4501.7E6	2033.3E6	540.944	550.533
6) T	MCPP	7.294	7.763	282.7E6	84256237	52.157	49.901
7) T	MCPA	7.436	7.993	399.8E6	114.2E6	55.001m	50.180
8) T	DICHLORPROP	7.797	8.351	1212.3E6	555.7E6	551.177	575.211
9) T	2,4-D	8.017	8.664	1383.4E6	602.3E6	574.108	558.472
10) T	Pentachlo...	8.296	9.166	17317.3E6	10487.2E6	569.554	584.974
11) T	2,4,5-TP ...	8.858	9.543	6635.1E6	4158.4E6	571.236m	576.516
12) T	2,4,5-T	9.140	9.948	6569.0E6	3858.9E6	570.999	575.707
13) T	2,4-DB	9.699	10.504	995.0E6	397.6E6	547.661	535.844
14) T	DINOSEB	10.861	10.876	4617.3E6	2783.0E6	546.941	544.323
15) T	Picloram	10.678	11.913	8659.2E6	5769.7E6	558.644	487.943m
16) T	DCPA	11.160	11.906	8032.8E6	5267.1E6	575.164	595.110m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029769.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:58
Operator : AR\AJ
Sample : PB167536BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

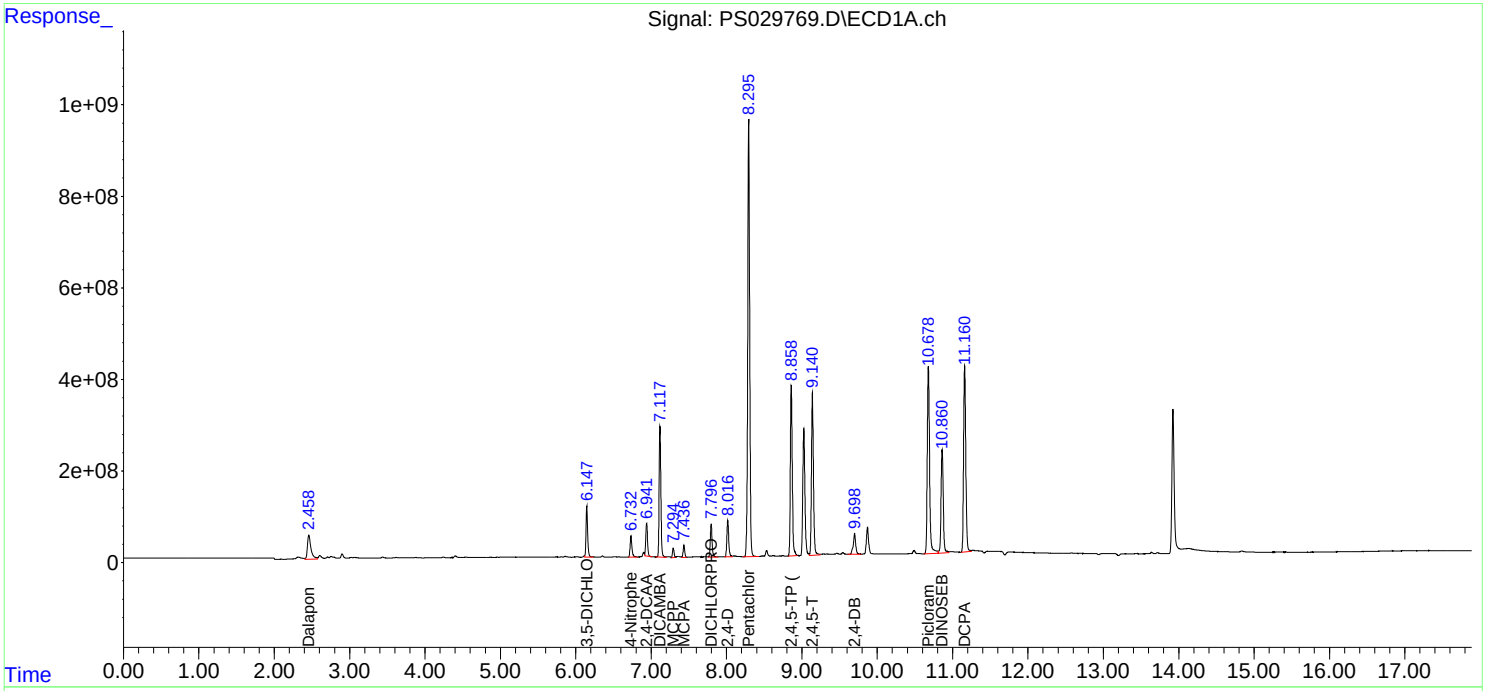
Instrument :
ECD_S
ClientSampleId :
PB167536BS

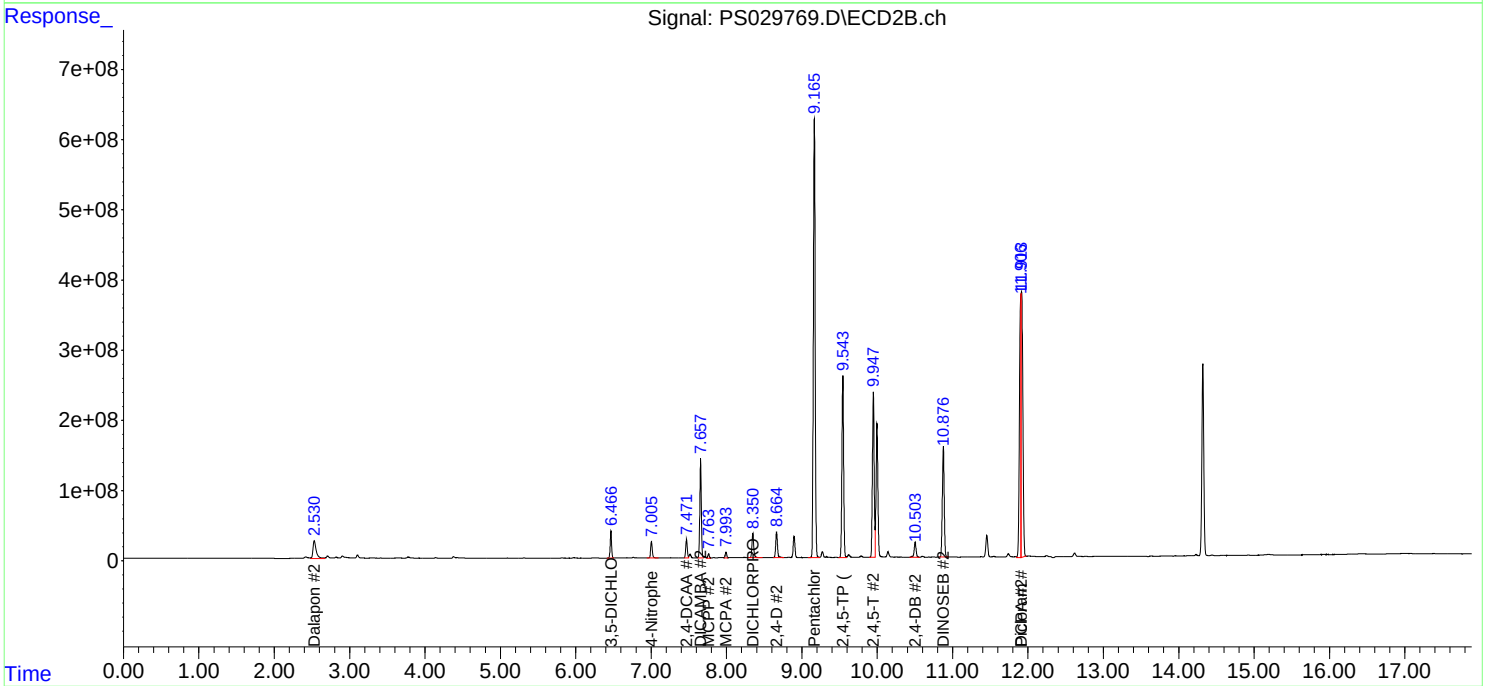
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:43:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Sample Results: **PS029766.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029766.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:46
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:39:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.943	7.469	1200.1E6	439.8E6	588.631	645.384
	Target Compounds						
1) T	Dalapon	2.457	2.530	1791.8E6	950.6E6	528.187	598.773
2) T	3,5-DICHL...	6.149	6.465	1723.6E6	579.5E6	573.043	600.173
3) T	4-Nitroph...	6.734	7.002	754.1E6	384.6E6	536.829	542.511
5) T	DICAMBA	7.120	7.655	4299.3E6	2056.0E6	516.625	556.682
6) T	MCPP	7.297	7.761	348.9E6	83841621	64.368	49.655m
7) T	MCPA	7.439	7.990	450.7E6	138.1E6	62.001m	60.694m
8) T	DICHLORPROP	7.799	8.349	1149.3E6	609.0E6	522.537	630.385
9) T	2,4-D	8.019	8.662	1378.2E6	634.3E6	571.968	588.160
10) T	Pentachlo...	8.299	9.163	15184.4E6	10303.6E6	499.404	574.731
11) T	2,4,5-TP ...	8.863	9.541	6022.4E6	4374.8E6	518.489	606.518
12) T	2,4,5-T	9.145	9.946	5691.0E6	3737.2E6	494.680	557.561
13) T	2,4-DB	9.704	10.502	754.5E6	366.4E6	415.314	493.786
14) T	DINOSEB	10.866	10.874	2867.8E6	2055.3E6	339.709	401.989
15) T	Picloram	10.684	11.907	6786.1E6	4984.8E6	437.803	421.568m
16) T	DCPA	11.167	11.900	6116.3E6	5627.7E6	437.940	635.847m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PS029766.D**

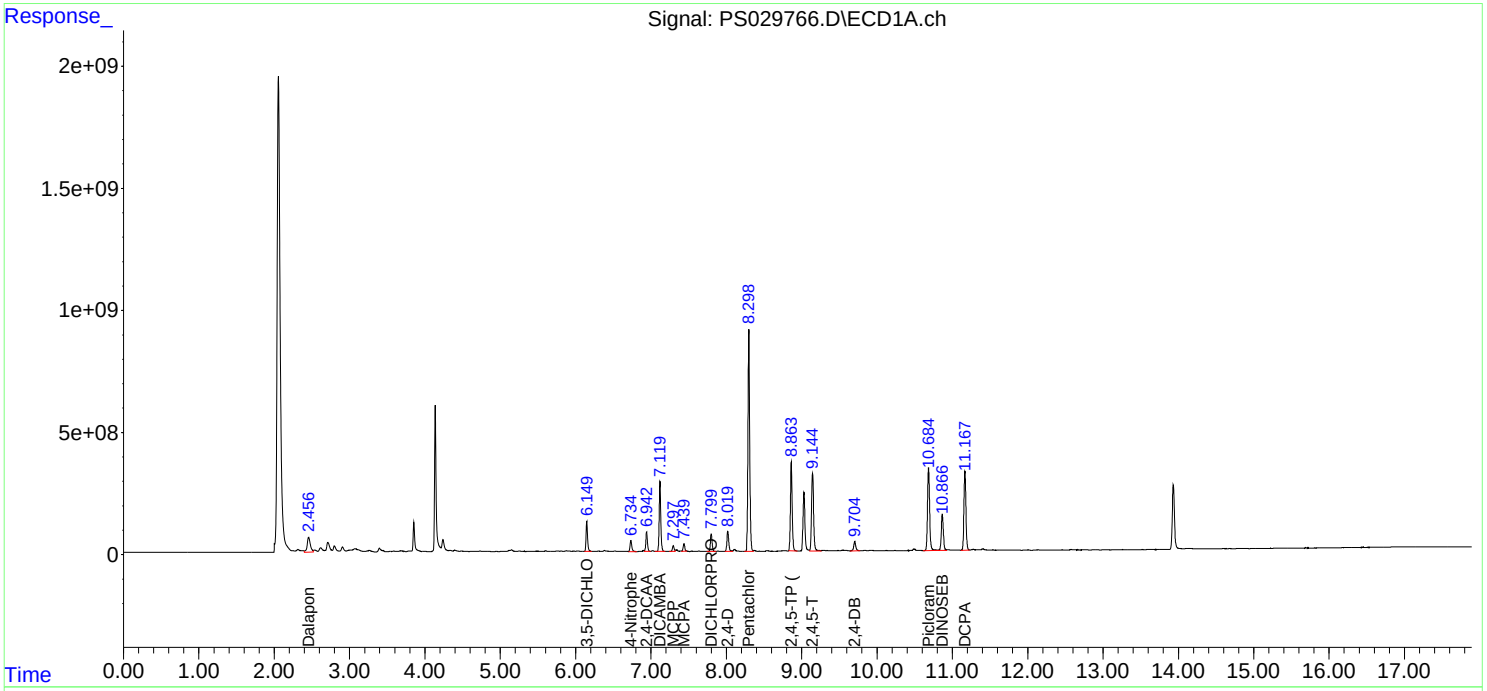
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029766.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:46
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

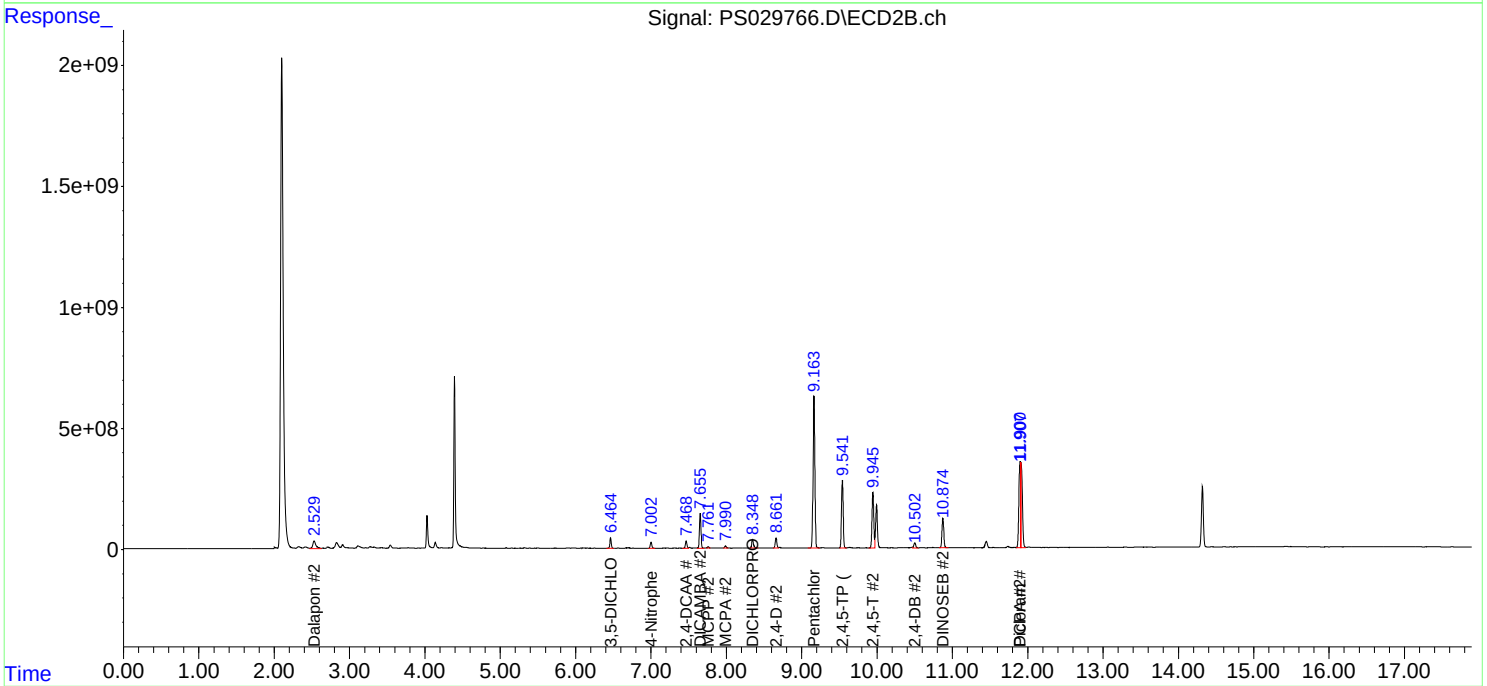
Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:39:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

Sample Results: **PS029767.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029767.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:41:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.942	7.469	1209.4E6	447.1E6	593.207	656.002
	Target Compounds						
1) T	Dalapon	2.456	2.530	1811.3E6	953.9E6	533.925	600.870
2) T	3,5-DICHL...	6.148	6.465	1768.2E6	592.7E6	587.878	613.865
3) T	4-Nitroph...	6.733	7.002	769.1E6	391.1E6	547.506	551.601
5) T	DICAMBA	7.118	7.655	4339.5E6	2094.0E6	521.456	566.951
6) T	MCPP	7.296	7.761	336.5E6	89759176	62.085	53.160m
7) T	MCPA	7.438	7.991	439.0E6	161.6E6	60.398m	71.038
8) T	DICHLORPROP	7.798	8.349	1167.4E6	661.9E6	530.751	685.070 #
9) T	2,4-D	8.018	8.662	1409.9E6	647.0E6	585.137	599.934
10) T	Pentachlo...	8.297	9.163	15392.3E6	10502.8E6	506.244	585.844
11) T	2,4,5-TP ...	8.861	9.541	6201.6E6	4468.7E6	533.916m	619.541
12) T	2,4,5-T	9.143	9.945	5778.0E6	3824.0E6	502.243	570.509
13) T	2,4-DB	9.702	10.502	702.5E6	374.4E6	386.667	504.600 #
14) T	DINOSEB	10.864	10.874	2841.4E6	2046.1E6	336.583	400.182
15) T	Picloram	10.682	11.907	6873.3E6	5045.5E6	443.430	426.700m
16) T	DCPA	11.164	11.900	6188.4E6	5335.8E6	443.099	602.875m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029767.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

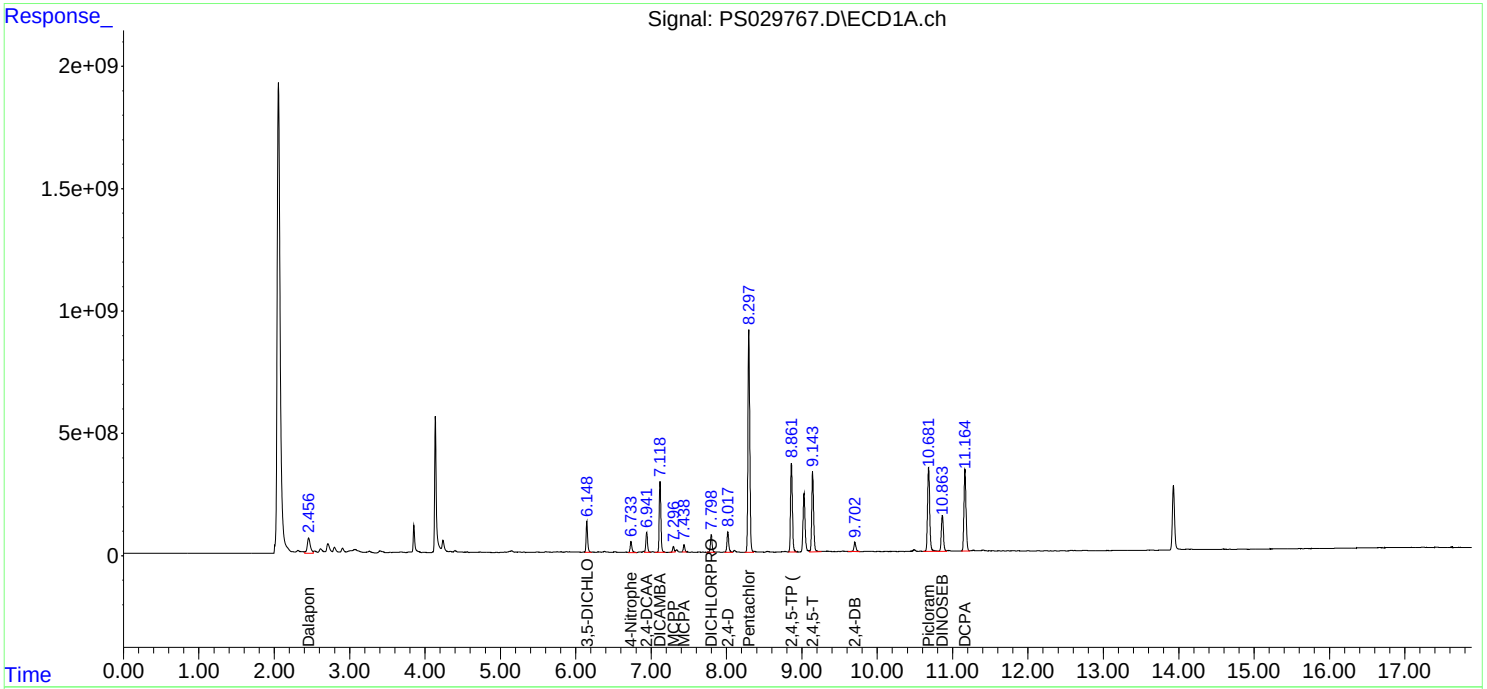
Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MSD

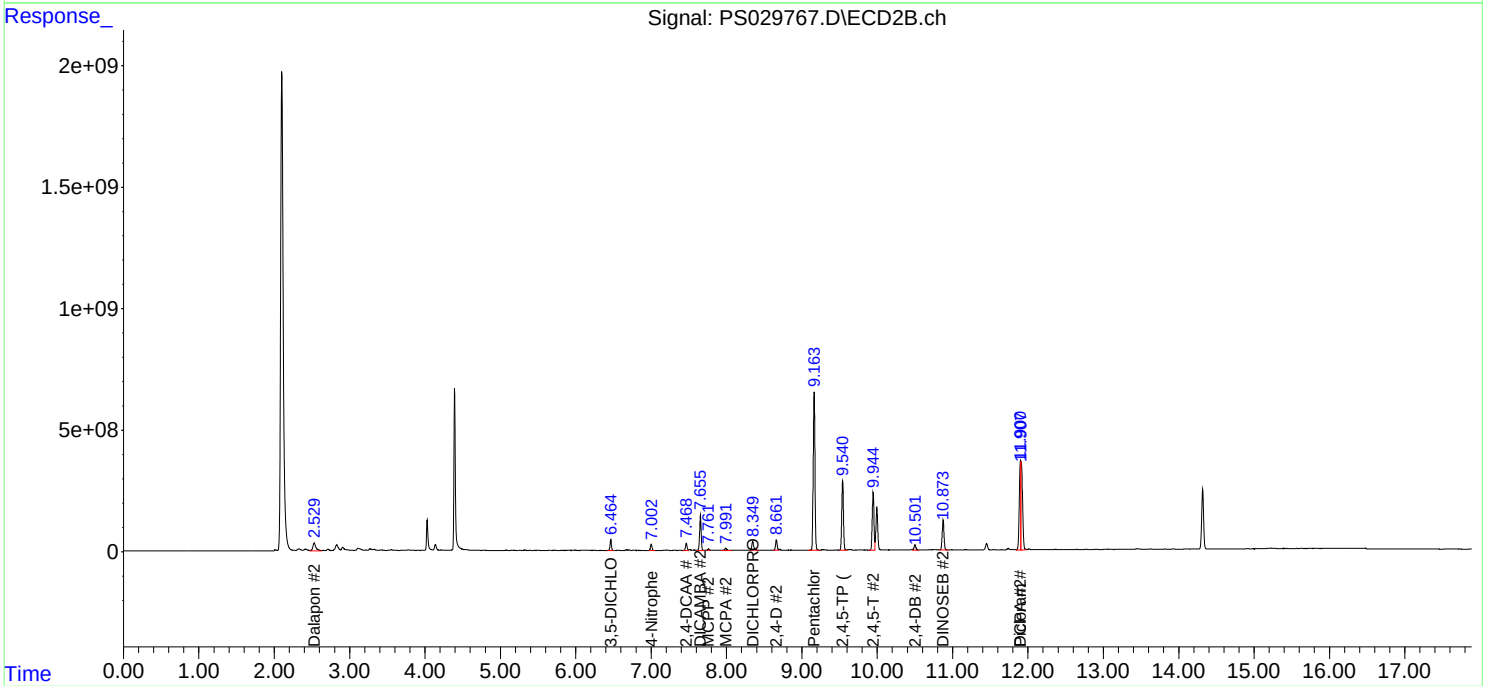
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:41:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PS040225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC750	PS029659.D	DCPA #2	Abdul	4/3/2025 9:24:54 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC750	PS029659.D	Picloram #2	Abdul	4/3/2025 9:24:54 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1000	PS029660.D	DCPA #2	Abdul	4/3/2025 9:24:59 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1000	PS029660.D	Picloram #2	Abdul	4/3/2025 9:24:59 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1500	PS029661.D	DCPA #2	Abdul	4/3/2025 9:25:02 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1500	PS029661.D	Picloram #2	Abdul	4/3/2025 9:25:02 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICV750	PS029662.D	DCPA #2	Abdul	4/3/2025 9:25:06 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICV750	PS029662.D	Picloram #2	Abdul	4/3/2025 9:25:06 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps040925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029753.D	DCPA #2	Abdul	4/10/2025 9:08:08 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029753.D	MCPA	Abdul	4/10/2025 9:08:08 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029753.D	Picloram #2	Abdul	4/10/2025 9:08:08 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029764.D	DCPA #2	Abdul	4/10/2025 9:07:34 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029764.D	MCPA	Abdul	4/10/2025 9:07:34 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029764.D	Picloram #2	Abdul	4/10/2025 9:07:34 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	DCPA #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	MCPA	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	MCPA #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	MCPP #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	Picloram #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	2,4,5-TP (SILVEX)	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	DCPA #2	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps040925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MSD	PS029767.D	MCPA	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	MCPP #2	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	Picloram #2	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BL	PS029768.D	2,4-DCAA	Abdul	4/10/2025 9:07:26 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	2,4,5-TP (SILVEX)	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	3,5-DICHLOROBENZOIC ACID	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	DCPA #2	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	MCPA	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	Picloram #2	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4,5-T #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4,5-TP (SILVEX)	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4-DB	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4-DCAA	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	ps040925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029773.D	4-Nitrophenol	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	DCPA #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	MCPA	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	Pentachlorophenol #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	Picloram #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1746-02	PS029776.D	2,4-DCAA	Abdul	4/10/2025 9:07:01 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1746-04	PS029777.D	2,4-DCAA	Abdul	4/10/2025 9:06:57 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	Dalapon #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	DCPA #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	MCPA #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	Picloram #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040225

Review By	Abdul	Review On	4/3/2025 9:25:38 AM		
Supervise By	mohammad	Supervise On	4/4/2025 7:53:55 AM		
SubDirectory	PS040225	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029655.D	02 Apr 2025 16:20	AR\AJ	Ok
2	I.BLK	PS029656.D	02 Apr 2025 16:44	AR\AJ	Ok
3	HSTDICC200	PS029657.D	02 Apr 2025 17:32	AR\AJ	Ok
4	HSTDICC500	PS029658.D	02 Apr 2025 17:56	AR\AJ	Ok
5	HSTDICC750	PS029659.D	02 Apr 2025 18:44	AR\AJ	Ok,M
6	HSTDICC1000	PS029660.D	02 Apr 2025 19:32	AR\AJ	Ok,M
7	HSTDICC1500	PS029661.D	02 Apr 2025 20:44	AR\AJ	Ok,M
8	HSTDICV750	PS029662.D	02 Apr 2025 21:32	AR\AJ	Ok,M
9	I.BLK	PS029663.D	02 Apr 2025 21:56	AR\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	PS040225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029751.D	09 Apr 2025 09:01	AR\AJ	Ok
2	I.BLK	PS029752.D	09 Apr 2025 09:25	AR\AJ	Ok
3	HSTDCCC750	PS029753.D	09 Apr 2025 11:33	AR\AJ	Ok,M
4	PB167511BS	PS029754.D	09 Apr 2025 12:38	AR\AJ	Ok,M
5	PB167527BL	PS029755.D	09 Apr 2025 16:34	AR\AJ	Ok
6	PB167527BS	PS029756.D	09 Apr 2025 16:58	AR\AJ	Ok,M
7	Q1745-01	PS029757.D	09 Apr 2025 17:46	AR\AJ	Ok,M
8	Q1745-09	PS029758.D	09 Apr 2025 18:10	AR\AJ	Ok,M
9	Q1740-01	PS029759.D	09 Apr 2025 18:34	AR\AJ	Ok
10	Q1740-01MS	PS029760.D	09 Apr 2025 18:58	AR\AJ	Ok,M
11	Q1740-01MSD	PS029761.D	09 Apr 2025 19:22	AR\AJ	Ok,M
12	Q1743-01	PS029762.D	09 Apr 2025 19:46	AR\AJ	Ok
13	I.BLK	PS029763.D	09 Apr 2025 20:10	AR\AJ	Ok
14	HSTDCCC750	PS029764.D	09 Apr 2025 20:34	AR\AJ	Ok,M
15	Q1739-02	PS029765.D	09 Apr 2025 21:22	AR\AJ	Ok,M
16	Q1739-02MS	PS029766.D	09 Apr 2025 21:46	AR\AJ	Ok,M
17	Q1739-02MSD	PS029767.D	09 Apr 2025 22:10	AR\AJ	Ok,M
18	PB167536BL	PS029768.D	09 Apr 2025 22:34	AR\AJ	Ok,M
19	PB167536BS	PS029769.D	09 Apr 2025 22:58	AR\AJ	Ok,M
20	PB167488TB	PS029770.D	09 Apr 2025 23:22	AR\AJ	Ok,M
21	PB167517TB	PS029771.D	09 Apr 2025 23:47	AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	PS040225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	PS029772.D	10 Apr 2025 00:10	AR\AJ	Ok
23	HSTDCCC750	PS029773.D	10 Apr 2025 01:46	AR\AJ	Ok,M
24	Q1744-02	PS029774.D	10 Apr 2025 02:11	AR\AJ	Ok,M
25	Q1744-04	PS029775.D	10 Apr 2025 02:35	AR\AJ	Ok,M
26	Q1746-02	PS029776.D	10 Apr 2025 02:58	AR\AJ	Ok,M
27	Q1746-04	PS029777.D	10 Apr 2025 03:22	AR\AJ	Ok,M
28	I.BLK	PS029778.D	10 Apr 2025 03:46	AR\AJ	Ok
29	HSTDCCC750	PS029779.D	10 Apr 2025 04:10	AR\AJ	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040225

Review By	Abdul	Review On	4/3/2025 9:25:38 AM		
Supervise By	mohammad	Supervise On	4/4/2025 7:53:55 AM		
SubDirectory	PS040225	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029655.D	02 Apr 2025 16:20		AR\AJ	Ok
2	I.BLK	I.BLK	PS029656.D	02 Apr 2025 16:44		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029657.D	02 Apr 2025 17:32		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029658.D	02 Apr 2025 17:56		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029659.D	02 Apr 2025 18:44		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS029660.D	02 Apr 2025 19:32		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS029661.D	02 Apr 2025 20:44		AR\AJ	Ok,M
8	HSTDICV750	ICVPS040225	PS029662.D	02 Apr 2025 21:32		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS029663.D	02 Apr 2025 21:56		AR\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	PS040225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029751.D	09 Apr 2025 09:01		AR\AJ	Ok
2	I.BLK	I.BLK	PS029752.D	09 Apr 2025 09:25		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS029753.D	09 Apr 2025 11:33		AR\AJ	Ok,M
4	PB167511BS	PB167511BS	PS029754.D	09 Apr 2025 12:38		AR\AJ	Ok,M
5	PB167527BL	PB167527BL	PS029755.D	09 Apr 2025 16:34		AR\AJ	Ok
6	PB167527BS	PB167527BS	PS029756.D	09 Apr 2025 16:58		AR\AJ	Ok,M
7	Q1745-01	IB-6A-WC	PS029757.D	09 Apr 2025 17:46		AR\AJ	Ok,M
8	Q1745-09	IB-6.5-WC	PS029758.D	09 Apr 2025 18:10		AR\AJ	Ok,M
9	Q1740-01	TP-20	PS029759.D	09 Apr 2025 18:34		AR\AJ	Ok
10	Q1740-01MS	TP-20MS	PS029760.D	09 Apr 2025 18:58		AR\AJ	Ok,M
11	Q1740-01MSD	TP-20MSD	PS029761.D	09 Apr 2025 19:22	Comp#10 recovery fail	AR\AJ	Ok,M
12	Q1743-01	TP-16	PS029762.D	09 Apr 2025 19:46		AR\AJ	Ok
13	I.BLK	I.BLK	PS029763.D	09 Apr 2025 20:10		AR\AJ	Ok
14	HSTDCCC750	HSTDCCC750	PS029764.D	09 Apr 2025 20:34		AR\AJ	Ok,M
15	Q1739-02	WC-LIQUID-20250404	PS029765.D	09 Apr 2025 21:22		AR\AJ	Ok,M
16	Q1739-02MS	WC-LIQUID-20250404	PS029766.D	09 Apr 2025 21:46	Comp#5,8 recovery fail	AR\AJ	Ok,M
17	Q1739-02MSD	WC-LIQUID-20250404	PS029767.D	09 Apr 2025 22:10	Comp#5,7,8 recovery fail	AR\AJ	Ok,M
18	PB167536BL	PB167536BL	PS029768.D	09 Apr 2025 22:34		AR\AJ	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	PS040225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167536BS	PB167536BS	PS029769.D	09 Apr 2025 22:58		AR\AJ	Ok,M
20	PB167488TB	PB167488TB	PS029770.D	09 Apr 2025 23:22		AR\AJ	Ok,M
21	PB167517TB	PB167517TB	PS029771.D	09 Apr 2025 23:47		AR\AJ	Ok
22	I.BLK	I.BLK	PS029772.D	10 Apr 2025 00:10		AR\AJ	Ok
23	HSTDCCC750	HSTDCCC750	PS029773.D	10 Apr 2025 01:46	Comp#13 high in 1st column	AR\AJ	Ok,M
24	Q1744-02	B-158-SB01	PS029774.D	10 Apr 2025 02:11		AR\AJ	Ok,M
25	Q1744-04	B-158-SB02	PS029775.D	10 Apr 2025 02:35		AR\AJ	Ok,M
26	Q1746-02	B-149-SB01	PS029776.D	10 Apr 2025 02:58		AR\AJ	Ok,M
27	Q1746-04	B-149-SB02	PS029777.D	10 Apr 2025 03:22		AR\AJ	Ok,M
28	I.BLK	I.BLK	PS029778.D	10 Apr 2025 03:46		AR\AJ	Ok
29	HSTDCCC750	HSTDCCC750	PS029779.D	10 Apr 2025 04:10		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JB

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JB

Supervisor By : IZ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JB

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JB / ICP Room	4/29 · IZ
	Preparation Group	Analysis Group

04/09/25

IZ 4/29

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167517

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1748 **WorkList ID :** 188805 **Department :** TCLP Extraction **Date :** 04-08-2025 12:17:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1743-04	TP-16	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311
Q1744-02	B-158-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1744-04	B-158-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1745-04	IB-6A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1745-12	IB-6.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1746-02	B-149-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1746-04	B-149-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311
Q1748-04	IB-1.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1748-08	IB-2A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1749-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/07/2025	1311
Q1752-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-04	TP-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-06	TP-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-08	TP-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-04	TP-1-CONCRETE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311

Date/Time 04/08/25 16:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/08/25 18:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167536

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/09/2025
Matrix :	Water			**Extraction Start Time :**	12:55
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	04/09/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	18:50
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24218
Surrogate	1.0ML	5000 PPB	PP24424
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3881
Acidified Na2SO4	N/A	EP2576
NAOH 6N	N/A	EP2553
1:3 SULPHURIC ACID	N/A	EP2587
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2603
Hexane	N/A	E3916
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25	RP (Ext Lab)	Y-P-Pest IP&B.
18:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167536

Analytical Method: M8151A-Herbicide-22

Concentration Date: 04/09/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167488TB	PB167488TB	TCLP Herbicide	100	6	ritesh	rajesh	10			SEP-05
PB167517TB	PB167517TB	TCLP Herbicide	100	6	ritesh	rajesh	10			6
PB167536BL	HBLK536	TCLP Herbicide	1000	6	ritesh	rajesh	10			7
PB167536BS	HLCS536	TCLP Herbicide	1000	6	ritesh	rajesh	10			8
Q1739-02	WC-LIQUID-20250404	TCLP Herbicide	100	6	ritesh	rajesh	10	A		9
Q1739-02MS	WC-LIQUID-20250404MS	TCLP Herbicide	100	6	ritesh	rajesh	10	A		10
Q1739-02MSD	WC-LIQUID-20250404MSD	TCLP Herbicide	100	6	ritesh	rajesh	10	A		11
Q1744-02	B-158-SB01	TCLP Herbicide	100	6	ritesh	rajesh	10	A		12
Q1744-04	B-158-SB02	TCLP Herbicide	100	6	ritesh	rajesh	10	A		13
Q1746-02	B-149-SB01	TCLP Herbicide	100	6	ritesh	rajesh	10	A		14
Q1746-04	B-149-SB02	TCLP Herbicide	100	6	ritesh	rajesh	10	A		15

* **Extracts relinquished on the same date as received.**

4/9/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167467

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167467TB	LEB467	18	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q1712-04	Z-05A	01	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1712-08	TT-7	02	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1719-01	TP-3-1	03	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1719-02	TP-3-2	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1719-03	TP-3-3	05	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-04	TP-3-4	06	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1719-05	TP-3-5	07	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-06	TP-3-6	08	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1719-07	TP-3-7	09	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-08	TP-3-8	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-09	TP-3-9	11	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-2
Q1719-10	TP-3-10	12	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1719-11	TP-3-11	13	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1719-12	TP-3-12	14	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1732-04	TT-8	15	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q1737-02	RT3069	16	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1740-04	TP-20	17	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2

04/04/25
11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167488

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167488TB	LEB488	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.5	N/A

04/07/25
12:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

04/09/25

12:40

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
Q1746-05	**B-158-GW01**	**WATER**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
Q1746-06	**B-149-GW01**	**WATER**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
Q1746-07	**EB-2025-4-7**	**WATER**			**04/07/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	

SAMPLE DATA

Raw Data: **FG015657.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	89.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015657.D	1	04/08/25 08:55	04/08/25 15:01	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	12600		429	3160	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	10.8		37 - 130	54%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **FG015658.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	84.8 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015658.D	1	04/08/25 08:55	04/08/25 15:30	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	6530		452	3340	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.3		37 - 130	92%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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() = Laboratory InHouse Limit

QC SUMMARY

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SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Portal Partners Tri-Venture

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG015650.D	110				0
PIBLK-FG015661.D	104				0
PB167510BL	81				0
PB167510BS	87				0
B-158-SB02MS	58				0
B-158-SB02MSD	56				0
B-149-SB01	54				0
B-149-SB02	92				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Client SampleID : B-158-SB02MS **Datafile:** FG015659.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	20225	9780	24698	74%		68-131

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Client SampleID : B-158-SB02MSD **Datafile:** FG015660.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	20178	9780	24202	72%		68-131

MS/MSD % Recovery RPD : 3

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SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Matrix Spike - EPA Sample No : PB167510BS **Datafile:** FG015654.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11322	0	8469	75	68-131

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167510BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Lab File ID: FG015653.D Lab Sample ID: PB167510BL

Instrument ID: FG Date Extracted: 04/08/2025

Matrix: (soil/water) Soil Date Analyzed: 04/08/25

Level: (low/med) low Time Analyzed: 12:50

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167510BS	PB167510BS	FG015654.D	04/08/25
B-149-SB01	Q1746-01	FG015657.D	04/08/25
B-149-SB02	Q1746-03	FG015658.D	04/08/25
B-158-SB02MS	Q1744-03MS	FG015659.D	04/08/25
B-158-SB02MSD	Q1744-03MSD	FG015660.D	04/08/25

COMMENTS:

QC SAMPLE DATA

Raw Data: **FG015653.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167510BL	SDG No.:	Q1746
Lab Sample ID:	PB167510BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015653.D	1	04/08/25 08:55	04/08/25 12:50	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.2		37 - 130	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-FG015650.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-FG015650.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015650.D	1		04/08/25	FG040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	22.1		29 - 130	110%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-FG015661.D	SDG No.:	Q1746
Lab Sample ID:	I.BLK-FG015661.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015661.D	1		04/08/25	FG040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	20.8		29 - 130	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **FG015654.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167510BS	SDG No.:	Q1746
Lab Sample ID:	PB167510BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015654.D	1	04/08/25 08:55	04/08/25 13:20	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	8470		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.3		37 - 130	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **FG015659.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02MS	SDG No.:	Q1746
Lab Sample ID:	Q1744-03MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	56 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015659.D	1	04/08/25 08:55	04/08/25 15:59	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	24700		685	5060	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.6		37 - 130	58%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02MSD	SDG No.:	Q1746
Lab Sample ID:	Q1744-03MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	56 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015660.D	1	04/08/25 08:55	04/08/25 16:29	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	24200		684	5040	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.3		37 - 130	56%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Calibration Sequence : FG032725		Test : TPH GC	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1700	202510102	119124	FG015564.D
850	97431427	114625	FG015565.D
340	39672736	116685	FG015566.D
170	20516512	120685	FG015567.D
85	9074544	106759	FG015568.D
AVG RF : 115576	**% RSD : 4.711**		**AVG RT : 15.021**

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

DataFile: FG015651.D Analyst Name: YP\AJ Analyst Date: 04-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	95873167	112792	115576	2.409

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

DataFile: FG015662.D Analyst Name: YP\AJ Analyst Date: 04-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	97789180	115046	115576	0.459

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.021**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	08 Apr 2025 10:01	FG015650.D	15.019	
50 PPM TRPH STD	50 PPM TRPH STD	08 Apr 2025 11:13	FG015651.D	15.022	
PB167510BL	PB167510BL	08 Apr 2025 12:50	FG015653.D	15.016	
PB167510BS	PB167510BS	08 Apr 2025 13:20	FG015654.D	15.016	
B-149-SB01	Q1746-01	08 Apr 2025 15:01	FG015657.D	14.966	
B-149-SB02	Q1746-03	08 Apr 2025 15:30	FG015658.D	15.015	
B-158-SB02MS	Q1744-03MS	08 Apr 2025 15:59	FG015659.D	14.965	
B-158-SB02MSD	Q1744-03MSD	08 Apr 2025 16:29	FG015660.D	15.015	
PIBLK02	I.BLK02	08 Apr 2025 16:58	FG015661.D	15.014	
50 PPM TRPH STD	50 PPM TRPH STD	08 Apr 2025 17:57	FG015662.D	15.017	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.921	15.121

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015657.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:01
Operator : YP\AJ
Sample : Q1746-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-149-SB01

Integration File: autoint1.e
Quant Time: Apr 09 00:29:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	15.016	1238731	10.813 ug/ml
Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.

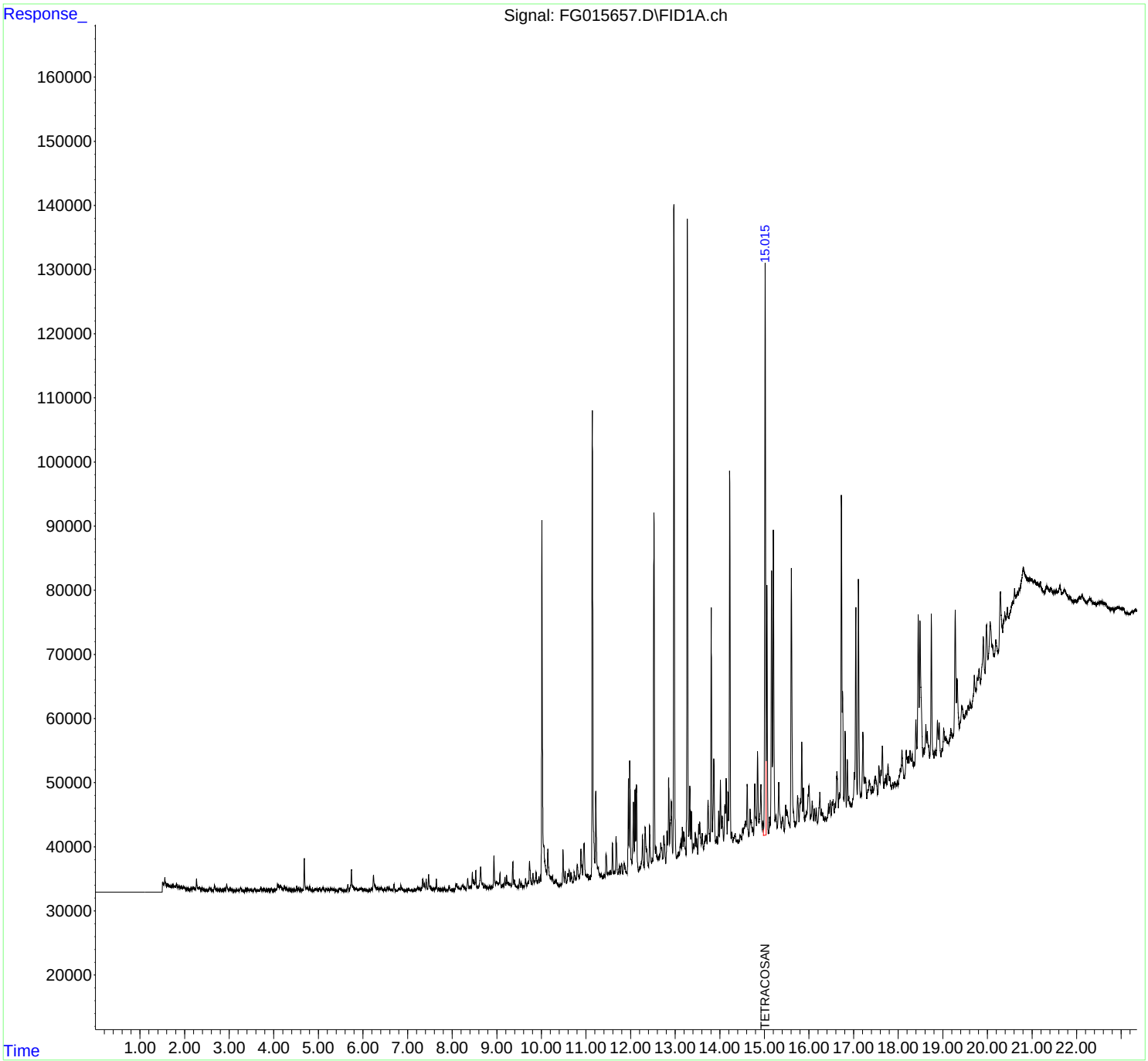
Sample Results: **FG015657.D**

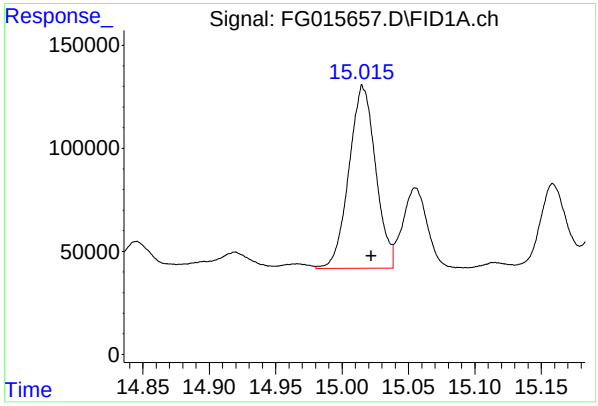
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015657.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:01
Operator : YP\AJ
Sample : Q1746-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-149-SB01

Integration File: autoint1.e
Quant Time: Apr 09 00:29:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.016 min
Delta R.T.: -0.007 mi
Response: 1238731
Conc: 10.81 ug/m

Instrument :
FID_G
ClientSampleId :
B-149-SB01

A B C D E F G H I J

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015657.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:01
Sample : Q1746-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.819	1.800	1.859	BV	717	8358	0.64%	0.021%
2	1.874	1.859	1.905	VV	342	3783	0.29%	0.009%
3	1.920	1.905	1.950	PV	325	3980	0.30%	0.010%
4	1.984	1.950	2.025	PV	397	7039	0.54%	0.018%
5	2.027	2.025	2.042	VV	57	531	0.04%	0.001%
6	2.059	2.042	2.069	PV	200	1711	0.13%	0.004%
7	2.072	2.069	2.079	VV	107	781	0.06%	0.002%
8	2.084	2.079	2.109	VV	148	1520	0.12%	0.004%
9	2.116	2.109	2.138	VV	125	1237	0.09%	0.003%
10	2.157	2.138	2.163	PV	167	1342	0.10%	0.003%
11	2.182	2.163	2.188	VV	234	2346	0.18%	0.006%
12	2.202	2.188	2.230	VV	468	7578	0.58%	0.019%
13	2.232	2.230	2.252	VV	238	2050	0.16%	0.005%
14	2.267	2.252	2.314	VV	1772	24953	1.90%	0.062%
15	2.326	2.314	2.376	VV	510	10370	0.79%	0.026%
16	2.395	2.376	2.414	VV	476	5577	0.43%	0.014%
17	2.420	2.414	2.438	VV	242	2340	0.18%	0.006%
18	2.443	2.438	2.471	VV	147	1821	0.14%	0.005%
19	2.476	2.471	2.492	VV	148	1209	0.09%	0.003%
20	2.496	2.492	2.514	PV	135	770	0.06%	0.002%
21	2.531	2.514	2.543	VV	134	889	0.07%	0.002%
22	2.559	2.543	2.630	VV	438	10567	0.81%	0.026%
23	2.674	2.630	2.710	VV	826	16119	1.23%	0.040%
24	2.717	2.710	2.738	VV	222	2581	0.20%	0.006%
25	2.752	2.738	2.776	VV	269	3991	0.30%	0.010%
26	2.782	2.776	2.794	VV	241	1663	0.13%	0.004%
27	2.799	2.794	2.815	VV	196	1899	0.14%	0.005%
28	2.827	2.815	2.851	VV	242	2717	0.21%	0.007%
29	2.888	2.851	2.894	VV	302	4794	0.37%	0.012%
30	2.897	2.894	2.901	VV	279	897	0.07%	0.002%
31	2.904	2.901	2.912	VV	312	1531	0.12%	0.004%
32	2.918	2.912	2.921	VV	231	1287	0.10%	0.003%
33	2.944	2.921	2.990	VV	1187	20755	1.58%	0.052%
34	3.022	2.990	3.046	VV	389	9377	0.72%	0.023%
35	3.049	3.046	3.085	VV	320	4951	0.38%	0.012%
36	3.088	3.085	3.102	VV	190	1555	0.12%	0.004%

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37	3.110	3.102	3.153	VV	238	4391	0.34%	0.011%
38	3.156	3.153	3.160	VV	160	499	0.04%	0.001%
39	3.173	3.160	3.190	VV	262	3265	0.25%	0.008%
40	3.194	3.190	3.215	VV	226	2416	0.18%	0.006%
41	3.218	3.215	3.222	VV	205	755	0.06%	0.002%
42	3.252	3.222	3.282	VV	550	12310	0.94%	0.031%
43	3.286	3.282	3.298	VV	244	1902	0.15%	0.005%
44	3.301	3.298	3.314	VV	224	1475	0.11%	0.004%
45	3.324	3.314	3.342	VV	146	1898	0.14%	0.005%
46	3.368	3.342	3.377	PV	406	4542	0.35%	0.011%
47	3.393	3.377	3.412	VV	482	6494	0.50%	0.016%
48	3.426	3.412	3.450	VV	402	5550	0.42%	0.014%
49	3.471	3.450	3.482	VV	351	4838	0.37%	0.012%
50	3.485	3.482	3.492	VV	298	1726	0.13%	0.004%
51	3.495	3.492	3.509	VV	296	2114	0.16%	0.005%
52	3.533	3.509	3.540	VV	191	2656	0.20%	0.007%
53	3.545	3.540	3.550	VV	213	784	0.06%	0.002%
54	3.567	3.550	3.591	VV	556	8227	0.63%	0.020%
55	3.595	3.591	3.620	VV	217	2464	0.19%	0.006%
56	3.630	3.620	3.638	VV	179	1460	0.11%	0.004%
57	3.649	3.638	3.665	VV	309	3393	0.26%	0.008%
58	3.671	3.665	3.683	VV	237	1647	0.13%	0.004%
59	3.707	3.683	3.733	VV	553	10513	0.80%	0.026%
60	3.743	3.733	3.754	VV	420	4152	0.32%	0.010%
61	3.758	3.754	3.773	VV	321	3023	0.23%	0.008%
62	3.782	3.773	3.815	VV	458	8259	0.63%	0.021%
63	3.843	3.815	3.862	VV	415	7703	0.59%	0.019%
64	3.866	3.862	3.870	VV	188	941	0.07%	0.002%
65	3.887	3.870	3.906	VV	511	6676	0.51%	0.017%
66	3.945	3.906	3.970	VV	461	9961	0.76%	0.025%
67	3.978	3.970	4.000	VV	309	2777	0.21%	0.007%
68	4.024	4.000	4.034	VV	324	3976	0.30%	0.010%
69	4.045	4.034	4.064	VV	438	5943	0.45%	0.015%
70	4.087	4.064	4.130	VV	1063	30308	2.31%	0.075%
71	4.150	4.130	4.194	VV	851	24696	1.88%	0.061%
72	4.197	4.194	4.201	VV	477	2064	0.16%	0.005%
73	4.205	4.201	4.217	VV	446	4055	0.31%	0.010%
74	4.236	4.217	4.270	VV	918	19037	1.45%	0.047%
75	4.284	4.270	4.307	VV	530	9190	0.70%	0.023%
76	4.311	4.307	4.333	VV	409	5082	0.39%	0.013%
77	4.335	4.333	4.361	VV	345	4510	0.34%	0.011%
78	4.388	4.361	4.396	VV	264	4365	0.33%	0.011%
79	4.408	4.396	4.417	VV	309	3216	0.25%	0.008%
80	4.422	4.417	4.434	VV	289	2326	0.18%	0.006%
81	4.453	4.434	4.469	VV	417	5723	0.44%	0.014%
82	4.473	4.469	4.478	VV	265	1251	0.10%	0.003%
83	4.514	4.478	4.531	VV	938	14062	1.07%	0.035%
84	4.553	4.531	4.575	VV	524	8985	0.69%	0.022%
85	4.589	4.575	4.614	VV	438	6580	0.50%	0.016%
86	4.627	4.614	4.656	VV	325	5799	0.44%	0.014%
87	4.683	4.656	4.717	VV	5175	65917	5.03%	0.164%
88	4.721	4.717	4.736	VV	587	6178	0.47%	0.015%
89	4.749	4.736	4.783	VV	638	13685	1.04%	0.034%

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90	4.801	4.783	4.845	VV	796	16200	1.24%	0.040%
91	4.856	4.845	4.862	VV	289	2298	0.18%	0.006%
92	4.866	4.862	4.894	VV	568	4420	0.34%	0.011%
93	4.941	4.894	4.964	VV	457	12416	0.95%	0.031%
94	4.968	4.964	4.974	VV	308	1894	0.14%	0.005%
95	4.979	4.974	5.003	VV	399	5145	0.39%	0.013%
96	5.027	5.003	5.059	VV	603	11615	0.89%	0.029%
97	5.097	5.059	5.143	VV	617	21047	1.61%	0.052%
98	5.144	5.143	5.156	VV	278	1693	0.13%	0.004%
99	5.175	5.156	5.212	VV	520	11161	0.85%	0.028%
100	5.221	5.212	5.252	VV	375	7637	0.58%	0.019%
101	5.269	5.252	5.287	VV	546	7738	0.59%	0.019%
102	5.294	5.287	5.327	VV	417	7653	0.58%	0.019%
103	5.340	5.327	5.380	VV	432	8885	0.68%	0.022%
104	5.400	5.380	5.415	VV	240	2677	0.20%	0.007%
105	5.420	5.415	5.425	VV	154	656	0.05%	0.002%
106	5.437	5.425	5.448	VV	219	1903	0.15%	0.005%
107	5.473	5.448	5.496	VV	490	10009	0.76%	0.025%
108	5.502	5.496	5.524	VV	409	5764	0.44%	0.014%
109	5.538	5.524	5.550	VV	314	3128	0.24%	0.008%
110	5.560	5.550	5.613	VV	177	5148	0.39%	0.013%
111	5.626	5.613	5.638	PV	254	2262	0.17%	0.006%
112	5.662	5.638	5.687	VV	1127	16088	1.23%	0.040%
113	5.690	5.687	5.697	VV	240	1133	0.09%	0.003%
114	5.742	5.697	5.805	VV	3444	69937	5.34%	0.174%
115	5.808	5.805	5.812	VV	434	1880	0.14%	0.005%
116	5.842	5.812	5.883	VV	551	17329	1.32%	0.043%
117	5.890	5.883	5.895	VV	289	1688	0.13%	0.004%
118	5.927	5.895	5.942	VV	625	10158	0.78%	0.025%
119	5.971	5.942	5.998	VV	541	13386	1.02%	0.033%
120	6.002	5.998	6.018	VV	300	3303	0.25%	0.008%
121	6.040	6.018	6.063	VV	440	7498	0.57%	0.019%
122	6.070	6.063	6.087	VV	251	2550	0.19%	0.006%
123	6.096	6.087	6.102	VV	249	1462	0.11%	0.004%
124	6.107	6.102	6.112	VV	163	758	0.06%	0.002%
125	6.138	6.112	6.159	VV	289	5237	0.40%	0.013%
126	6.176	6.159	6.182	VV	332	3066	0.23%	0.008%
127	6.189	6.182	6.208	VV	384	5060	0.39%	0.013%
128	6.236	6.208	6.305	VV	2597	59776	4.56%	0.149%
129	6.310	6.305	6.318	VV	423	2957	0.23%	0.007%
130	6.335	6.318	6.369	VV	643	12535	0.96%	0.031%
131	6.385	6.369	6.393	VV	538	6356	0.49%	0.016%
132	6.411	6.393	6.435	VV	633	11955	0.91%	0.030%
133	6.437	6.435	6.443	VV	379	1112	0.08%	0.003%
134	6.463	6.443	6.477	VV	337	5372	0.41%	0.013%
135	6.485	6.477	6.495	VV	466	3839	0.29%	0.010%
136	6.500	6.495	6.504	VV	333	1544	0.12%	0.004%
137	6.509	6.504	6.524	VV	334	2900	0.22%	0.007%
138	6.541	6.524	6.578	VV	735	14027	1.07%	0.035%
139	6.595	6.578	6.632	VV	534	10583	0.81%	0.026%
140	6.638	6.632	6.643	VV	321	1639	0.13%	0.004%
141	6.646	6.643	6.675	VV	321	4156	0.32%	0.010%

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142	6.695	6.675	6.731	VV	1144	16279	1.24%	0.040%
143	6.733	6.731	6.740	VV	170	818	0.06%	0.002%
144	6.743	6.740	6.753	VV	197	905	0.07%	0.002%
145	6.758	6.753	6.764	VV	124	656	0.05%	0.002%
146	6.796	6.764	6.804	VV	396	5535	0.42%	0.014%
147	6.818	6.804	6.833	VV	478	6473	0.49%	0.016%
148	6.850	6.833	6.910	VV	1019	21363	1.63%	0.053%
149	6.916	6.910	6.945	VV	271	3227	0.25%	0.008%
150	6.955	6.945	6.963	VV	189	1556	0.12%	0.004%
151	6.980	6.963	6.998	VV	289	3746	0.29%	0.009%
152	7.023	6.998	7.048	VV	448	7910	0.60%	0.020%
153	7.052	7.048	7.066	VV	252	1613	0.12%	0.004%
154	7.070	7.066	7.076	VV	173	792	0.06%	0.002%
155	7.086	7.076	7.090	VV	226	1738	0.13%	0.004%
156	7.095	7.090	7.101	VV	311	1603	0.12%	0.004%
157	7.107	7.101	7.121	VV	244	2240	0.17%	0.006%
158	7.126	7.121	7.133	VV	192	1031	0.08%	0.003%
159	7.155	7.133	7.166	VV	227	3177	0.24%	0.008%
160	7.170	7.166	7.183	VV	198	1431	0.11%	0.004%
161	7.231	7.183	7.252	VV	552	16191	1.24%	0.040%
162	7.272	7.252	7.291	VV	444	7688	0.59%	0.019%
163	7.294	7.291	7.299	VV	197	843	0.06%	0.002%
164	7.338	7.299	7.364	VV	1954	37140	2.83%	0.092%
165	7.376	7.364	7.399	VV	1267	19385	1.48%	0.048%
166	7.418	7.399	7.452	VV	1897	28242	2.16%	0.070%
167	7.472	7.452	7.509	VV	2622	40952	3.13%	0.102%
168	7.519	7.509	7.561	VV	576	12498	0.95%	0.031%
169	7.566	7.561	7.572	VV	279	1755	0.13%	0.004%
170	7.585	7.572	7.609	VV	451	7217	0.55%	0.018%
171	7.647	7.609	7.675	VV	1924	28695	2.19%	0.071%
172	7.683	7.675	7.686	VV	331	1933	0.15%	0.005%
173	7.691	7.686	7.712	VV	340	4263	0.33%	0.011%
174	7.726	7.712	7.753	VV	381	6548	0.50%	0.016%
175	7.767	7.753	7.788	VV	290	4480	0.34%	0.011%
176	7.826	7.788	7.854	VV	507	9628	0.73%	0.024%
177	7.868	7.854	7.874	PV	180	1739	0.13%	0.004%
178	7.878	7.874	7.890	VV	169	1242	0.09%	0.003%
179	7.931	7.890	7.969	VV	884	14725	1.12%	0.037%
180	7.992	7.969	8.011	VV	329	4591	0.35%	0.011%
181	8.020	8.011	8.046	VV	189	2104	0.16%	0.005%
182	8.079	8.046	8.090	VV	852	11298	0.86%	0.028%
183	8.101	8.090	8.124	VV	1107	15996	1.22%	0.040%
184	8.130	8.124	8.149	VV	565	6258	0.48%	0.016%
185	8.156	8.149	8.162	VV	355	2436	0.19%	0.006%
186	8.164	8.162	8.168	VV	350	916	0.07%	0.002%
187	8.181	8.168	8.189	VV	338	3914	0.30%	0.010%
188	8.196	8.189	8.200	VV	289	1613	0.12%	0.004%
189	8.223	8.200	8.237	VV	850	13105	1.00%	0.033%
190	8.242	8.237	8.269	VV	776	10903	0.83%	0.027%
191	8.278	8.269	8.294	VV	530	5901	0.45%	0.015%
192	8.300	8.294	8.317	VV	272	3021	0.23%	0.008%
193	8.350	8.317	8.391	VV	1826	34696	2.65%	0.086%
194	8.407	8.391	8.422	VV	587	9021	0.69%	0.022%

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195	8.453	8.422	8.470	VV	2793	37567	2.87%	0.093%
196	8.483	8.470	8.503	VV	1649	25214	1.92%	0.063%
197	8.530	8.503	8.591	VV	3013	53159	4.06%	0.132%
198	8.639	8.591	8.672	VV	3545	75889	5.79%	0.189%
199	8.683	8.672	8.714	VV	1086	16514	1.26%	0.041%
200	8.733	8.714	8.762	VV	736	12218	0.93%	0.030%
201	8.778	8.762	8.812	VV	539	7475	0.57%	0.019%
202	8.835	8.812	8.847	VV	390	5658	0.43%	0.014%
203	8.862	8.847	8.877	VV	308	4552	0.35%	0.011%
204	8.890	8.877	8.911	VV	510	7008	0.53%	0.017%
205	8.937	8.911	8.971	VV	5125	71210	5.43%	0.177%
206	8.988	8.971	9.006	VV	1252	19722	1.51%	0.049%
207	9.009	9.006	9.036	VV	967	14898	1.14%	0.037%
208	9.073	9.036	9.109	VV	2457	46753	3.57%	0.116%
209	9.126	9.109	9.139	VV	593	8582	0.65%	0.021%
210	9.145	9.139	9.161	VV	585	6612	0.50%	0.016%
211	9.183	9.161	9.204	VV	1721	24329	1.86%	0.060%
212	9.221	9.204	9.246	VV	2029	31585	2.41%	0.079%
213	9.252	9.246	9.269	VV	894	10714	0.82%	0.027%
214	9.277	9.269	9.294	VV	723	9255	0.71%	0.023%
215	9.306	9.294	9.337	VV	763	13619	1.04%	0.034%
216	9.361	9.337	9.381	VV	4109	53442	4.08%	0.133%
217	9.397	9.381	9.448	VV	1302	22205	1.69%	0.055%
218	9.453	9.448	9.467	VV	177	1299	0.10%	0.003%
219	9.477	9.467	9.488	VV	135	1026	0.08%	0.003%
220	9.510	9.488	9.530	VV	1409	16344	1.25%	0.041%
221	9.546	9.530	9.582	VV	870	12052	0.92%	0.030%
222	9.595	9.582	9.615	VV	379	4633	0.35%	0.012%
223	9.647	9.615	9.676	VV	1416	22750	1.74%	0.057%
224	9.700	9.676	9.710	VV	897	12414	0.95%	0.031%
225	9.735	9.710	9.790	VV	4101	83515	6.37%	0.208%
226	9.812	9.790	9.842	VV	2184	37926	2.89%	0.094%
227	9.882	9.842	9.909	VV	2339	52846	4.03%	0.131%
228	9.914	9.909	9.924	VV	834	7335	0.56%	0.018%
229	9.942	9.924	9.960	VV	1550	24304	1.85%	0.060%
230	9.977	9.960	9.989	VV	1771	21105	1.61%	0.052%
231	10.013	9.989	10.126	VV	57298	918574	70.10%	2.284%
232	10.146	10.126	10.205	VV	5882	135658	10.35%	0.337%
233	10.218	10.205	10.237	VV	1544	25516	1.95%	0.063%
234	10.250	10.237	10.281	VV	1611	27770	2.12%	0.069%
235	10.322	10.281	10.397	VV	912	32791	2.50%	0.082%
236	10.423	10.397	10.442	PV	258	3618	0.28%	0.009%
237	10.485	10.442	10.514	VV	5544	75045	5.73%	0.187%
238	10.534	10.514	10.566	VV	2119	33607	2.56%	0.084%
239	10.592	10.566	10.606	VV	1680	25470	1.94%	0.063%
240	10.621	10.606	10.646	VV	2246	35610	2.72%	0.089%
241	10.663	10.646	10.712	VV	1793	31901	2.43%	0.079%
242	10.736	10.712	10.778	VV	1801	36695	2.80%	0.091%
243	10.805	10.778	10.852	VV	2860	67019	5.11%	0.167%
244	10.887	10.852	10.905	VV	5139	82707	6.31%	0.206%
245	10.908	10.905	10.926	VV	2575	23468	1.79%	0.058%
246	10.959	10.926	11.014	VV	5998	147762	11.28%	0.367%

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247	11.015	11.014	11.027	VV	900	5921	0.45%	0.015%
248	11.043	11.027	11.060	VV	1060	13324	1.02%	0.033%
249	11.081	11.060	11.097	VV	621	9350	0.71%	0.023%
250	11.111	11.097	11.117	VV	778	6889	0.53%	0.017%
251	11.142	11.117	11.201	VV	73220	992295	75.72%	2.468%
252	11.221	11.201	11.308	VV	13827	260573	19.88%	0.648%
253	11.312	11.308	11.327	VV	696	7213	0.55%	0.018%
254	11.341	11.327	11.380	VV	698	12387	0.95%	0.031%
255	11.402	11.380	11.425	PV	628	9415	0.72%	0.023%
256	11.450	11.425	11.480	VV	3746	62188	4.75%	0.155%
257	11.503	11.480	11.525	VV	702	17133	1.31%	0.043%
258	11.545	11.525	11.565	VV	993	17655	1.35%	0.044%
259	11.593	11.565	11.612	VV	5256	65690	5.01%	0.163%
260	11.633	11.612	11.649	VV	740	13029	0.99%	0.032%
261	11.676	11.649	11.712	VV	6129	101123	7.72%	0.251%
262	11.746	11.712	11.769	VV	1573	25435	1.94%	0.063%
263	11.796	11.769	11.824	VV	1866	33125	2.53%	0.082%
264	11.857	11.824	11.897	VV	1821	45578	3.48%	0.113%
265	11.904	11.897	11.924	VV	373	4195	0.32%	0.010%
266	11.950	11.924	11.966	VV	14846	173357	13.23%	0.431%
267	11.981	11.966	12.029	VV	17567	257328	19.64%	0.640%
268	12.063	12.029	12.081	VV	11012	187811	14.33%	0.467%
269	12.099	12.081	12.114	VV	12870	161337	12.31%	0.401%
270	12.130	12.114	12.179	VV	13726	196945	15.03%	0.490%
271	12.205	12.179	12.218	PV	704	10638	0.81%	0.026%
272	12.266	12.218	12.303	VV	5578	104361	7.96%	0.260%
273	12.326	12.303	12.404	VV	6664	168766	12.88%	0.420%
274	12.425	12.404	12.470	VV	6868	111943	8.54%	0.278%
275	12.486	12.470	12.497	VV	1585	20413	1.56%	0.051%
276	12.524	12.497	12.556	VV	55241	666109	50.83%	1.656%
277	12.570	12.556	12.604	VV	3056	62638	4.78%	0.156%
278	12.626	12.604	12.638	VV	1422	25905	1.98%	0.064%
279	12.676	12.638	12.692	VV	3561	77150	5.89%	0.192%
280	12.696	12.692	12.714	VV	2867	27499	2.10%	0.068%
281	12.745	12.714	12.791	VV	4575	100118	7.64%	0.249%
282	12.817	12.791	12.833	VV	5225	80852	6.17%	0.201%
283	12.854	12.833	12.874	VV	13324	185184	14.13%	0.460%
284	12.912	12.874	12.944	VV	9567	234684	17.91%	0.584%
285	12.971	12.944	13.032	VV	102288	1310413	100.00%	3.259%
286	13.049	13.032	13.054	VV	941	10308	0.79%	0.026%
287	13.072	13.054	13.093	VV	1410	25715	1.96%	0.064%
288	13.131	13.093	13.144	VV	3317	69008	5.27%	0.172%
289	13.159	13.144	13.176	VV	5212	69097	5.27%	0.172%
290	13.191	13.176	13.243	VV	4257	103312	7.88%	0.257%
291	13.270	13.243	13.307	VV	99838	1182650	90.25%	2.941%
292	13.327	13.307	13.346	VV	11222	160409	12.24%	0.399%
293	13.362	13.346	13.389	VV	7291	104101	7.94%	0.259%
294	13.407	13.389	13.417	VV	2007	25146	1.92%	0.063%
295	13.446	13.417	13.466	VV	3672	70832	5.41%	0.176%
296	13.480	13.466	13.504	VV	2739	40895	3.12%	0.102%
297	13.524	13.504	13.536	VV	4987	58108	4.43%	0.144%
298	13.549	13.536	13.582	VV	5271	100484	7.67%	0.250%
299	13.604	13.582	13.637	VV	3376	64135	4.89%	0.159%

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300	13.668	13.637	13.682	VV	2850	53658	4.09%	0.133%
301	13.694	13.682	13.712	VV	2842	42065	3.21%	0.105%
302	13.735	13.712	13.780	VV	8291	179835	13.72%	0.447%
303	13.807	13.780	13.829	VV	37759	478077	36.48%	1.189%
304	13.864	13.829	13.913	VV	14512	305741	23.33%	0.760%
305	13.932	13.913	13.951	VV	2273	36558	2.79%	0.091%
306	13.974	13.951	13.991	VV	6033	88037	6.72%	0.219%
307	14.012	13.991	14.032	VV	10791	154226	11.77%	0.384%
308	14.051	14.032	14.084	VV	5227	111218	8.49%	0.277%
309	14.114	14.084	14.125	VV	6809	110493	8.43%	0.275%
310	14.141	14.125	14.164	VV	10774	160681	12.26%	0.400%
311	14.183	14.164	14.198	VV	8718	119858	9.15%	0.298%
312	14.221	14.198	14.254	VV	58398	733219	55.95%	1.823%
313	14.268	14.254	14.295	VV	2314	37652	2.87%	0.094%
314	14.343	14.295	14.387	VV	1970	65035	4.96%	0.162%
315	14.395	14.387	14.401	VV	809	5648	0.43%	0.014%
316	14.404	14.401	14.414	VV	660	4301	0.33%	0.011%
317	14.455	14.414	14.467	VV	1450	26916	2.05%	0.067%
318	14.474	14.467	14.489	VV	1289	14045	1.07%	0.035%
319	14.510	14.489	14.526	VV	2538	39721	3.03%	0.099%
320	14.574	14.526	14.589	VV	3480	101141	7.72%	0.252%
321	14.613	14.589	14.656	VV	9120	157800	12.04%	0.392%
322	14.678	14.656	14.696	VV	5121	82644	6.31%	0.206%
323	14.705	14.696	14.730	VV	3294	50034	3.82%	0.124%
324	14.738	14.730	14.756	VV	1974	24828	1.89%	0.062%
325	14.783	14.756	14.822	VV	8844	177667	13.56%	0.442%
326	14.845	14.822	14.876	VV	13790	223681	17.07%	0.556%
327	14.919	14.876	14.949	VV	8433	193585	14.77%	0.481%
328	14.966	14.949	14.981	VV	2652	40017	3.05%	0.100%
329	15.016	14.981	15.038	VV	88479	1252772	95.60%	3.115%
330	15.055	15.038	15.096	VV	39346	516427	39.41%	1.284%
331	15.115	15.096	15.130	VV	3007	41149	3.14%	0.102%
332	15.159	15.130	15.179	VV	41255	576716	44.01%	1.434%
333	15.200	15.179	15.241	VV	47340	723764	55.23%	1.800%
334	15.260	15.241	15.286	VV	3045	59392	4.53%	0.148%
335	15.320	15.286	15.376	VV	8084	183754	14.02%	0.457%
336	15.411	15.376	15.447	VV	2464	63026	4.81%	0.157%
337	15.477	15.447	15.492	VV	4284	70826	5.40%	0.176%
338	15.506	15.492	15.573	VV	3478	97185	7.42%	0.242%
339	15.604	15.573	15.687	VV	40785	717858	54.78%	1.785%
340	15.698	15.687	15.713	VV	1240	15576	1.19%	0.039%
341	15.742	15.713	15.777	VV	5168	108936	8.31%	0.271%
342	15.809	15.777	15.816	VV	4598	75666	5.77%	0.188%
343	15.837	15.816	15.857	VV	13334	191639	14.62%	0.477%
344	15.875	15.857	15.906	VV	6133	97261	7.42%	0.242%
345	15.923	15.906	15.932	VV	1833	24704	1.89%	0.061%
346	15.944	15.932	15.958	VV	2239	31456	2.40%	0.078%
347	15.997	15.958	16.042	VV	6168	186989	14.27%	0.465%
348	16.071	16.042	16.102	VV	3670	73889	5.64%	0.184%
349	16.122	16.102	16.145	VV	2428	38844	2.96%	0.097%
350	16.161	16.145	16.198	VV	2471	35019	2.67%	0.087%
351	16.243	16.198	16.266	VV	4681	95866	7.32%	0.238%

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352	16.280	16.266	16.292	VV	2081	23898	1.82%	0.059%
353	16.305	16.292	16.329	VV	1373	20348	1.55%	0.051%
354	16.338	16.329	16.351	VV	719	5023	0.38%	0.012%
355	16.372	16.351	16.391	PV	615	8492	0.65%	0.021%
356	16.436	16.391	16.454	PV	2614	42522	3.24%	0.106%
357	16.474	16.454	16.497	VV	2994	44915	3.43%	0.112%
358	16.516	16.497	16.527	VV	2567	31210	2.38%	0.078%
359	16.540	16.527	16.567	VV	2851	44041	3.36%	0.110%
360	16.591	16.567	16.597	VV	2008	28855	2.20%	0.072%
361	16.625	16.597	16.658	VV	6933	156161	11.92%	0.388%
362	16.678	16.658	16.699	VV	3277	67816	5.18%	0.169%
363	16.726	16.699	16.745	VV	49581	699113	53.35%	1.738%
364	16.753	16.745	16.786	VV	18882	238858	18.23%	0.594%
365	16.809	16.786	16.837	VV	12565	181035	13.82%	0.450%
366	16.858	16.837	16.880	VV	8003	113542	8.66%	0.282%
367	16.891	16.880	16.913	VV	2063	29057	2.22%	0.072%
368	16.919	16.913	16.945	VV	1167	14048	1.07%	0.035%
369	16.950	16.945	16.961	VV	710	5164	0.39%	0.013%
370	17.015	16.961	17.024	VV	5425	91659	6.99%	0.228%
371	17.049	17.024	17.079	VV	31087	430860	32.88%	1.071%
372	17.108	17.079	17.153	VV	35288	509308	38.87%	1.266%
373	17.168	17.153	17.173	VV	1531	16633	1.27%	0.041%
374	17.209	17.173	17.234	VV	11052	203545	15.53%	0.506%
375	17.242	17.234	17.257	VV	3879	48875	3.73%	0.122%
376	17.270	17.257	17.298	VV	3792	56289	4.30%	0.140%
377	17.356	17.298	17.397	VV	3069	106830	8.15%	0.266%
378	17.413	17.397	17.440	VV	1960	33328	2.54%	0.083%
379	17.477	17.440	17.482	VV	3186	52755	4.03%	0.131%
380	17.488	17.482	17.543	VV	3339	69054	5.27%	0.172%
381	17.568	17.543	17.592	VV	4541	79359	6.06%	0.197%
382	17.611	17.592	17.623	VV	3636	57370	4.38%	0.143%
383	17.645	17.623	17.682	VV	7276	136487	10.42%	0.339%
384	17.700	17.682	17.712	VV	2009	29188	2.23%	0.073%
385	17.728	17.712	17.746	VV	2557	37160	2.84%	0.092%
386	17.772	17.746	17.800	VV	4148	83042	6.34%	0.206%
387	17.810	17.800	17.856	VV	2112	32485	2.48%	0.081%
388	17.875	17.856	17.891	VV	842	11881	0.91%	0.030%
389	17.894	17.891	17.902	VV	551	2663	0.20%	0.007%
390	17.925	17.902	17.962	VV	861	17247	1.32%	0.043%
391	17.983	17.962	17.998	VV	848	8901	0.68%	0.022%
392	18.053	17.998	18.062	PV	2426	56867	4.34%	0.141%
393	18.083	18.062	18.132	VV	5120	113442	8.66%	0.282%
394	18.137	18.132	18.142	VV	742	3525	0.27%	0.009%
395	18.179	18.142	18.214	VV	4695	118848	9.07%	0.296%
396	18.230	18.214	18.246	VV	3526	56146	4.28%	0.140%
397	18.266	18.246	18.297	VV	4164	98931	7.55%	0.246%
398	18.314	18.297	18.331	VV	3456	56071	4.28%	0.139%
399	18.336	18.331	18.340	VV	1725	8827	0.67%	0.022%
400	18.358	18.340	18.366	VV	1935	27704	2.11%	0.069%
401	18.395	18.366	18.417	VV	8359	149575	11.41%	0.372%
402	18.449	18.417	18.470	VV	24329	436335	33.30%	1.085%
403	18.490	18.470	18.555	VV	23305	578028	44.11%	1.437%
404	18.570	18.555	18.587	VV	2896	47111	3.60%	0.117%

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405	18.620	18.587	18.637	VV	6492	126308	9.64%	0.314%
406	18.651	18.637	18.675	VV	5374	94171	7.19%	0.234%
407	18.681	18.675	18.703	VV	3083	36257	2.77%	0.090%
408	18.742	18.703	18.805	VV	23112	363704	27.75%	0.904%
409	18.823	18.805	18.841	VV	1494	24989	1.91%	0.062%
410	18.844	18.841	18.850	VV	1057	5443	0.42%	0.014%
411	18.879	18.850	18.901	VV	5863	109590	8.36%	0.273%
412	18.918	18.901	18.961	VV	5401	95037	7.25%	0.236%
413	18.979	18.961	18.991	PV	993	12322	0.94%	0.031%
414	19.022	18.991	19.051	VV	3900	83112	6.34%	0.207%
415	19.056	19.051	19.100	VV	2184	50770	3.87%	0.126%
416	19.106	19.100	19.122	VV	1092	12657	0.97%	0.031%
417	19.180	19.122	19.225	VV	2652	83695	6.39%	0.208%
418	19.278	19.225	19.304	VV	19935	379644	28.97%	0.944%
419	19.320	19.304	19.375	VV	9300	214624	16.38%	0.534%
420	19.428	19.375	19.436	VV	4235	99964	7.63%	0.249%
421	19.439	19.436	19.483	VV	3958	75419	5.76%	0.188%
422	19.517	19.483	19.536	VV	2738	69196	5.28%	0.172%
423	19.568	19.536	19.586	VV	3122	82612	6.30%	0.205%
424	19.612	19.586	19.636	VV	3482	85569	6.53%	0.213%
425	19.706	19.636	19.729	VV	6789	224308	17.12%	0.558%
426	19.733	19.729	19.746	VV	4343	44705	3.41%	0.111%
427	19.772	19.746	19.778	VV	5914	97794	7.46%	0.243%
428	19.782	19.778	19.789	VV	5773	34780	2.65%	0.086%
429	19.813	19.789	19.847	VV	6998	202601	15.46%	0.504%
430	19.908	19.847	19.949	VV	11167	440753	33.63%	1.096%
431	19.980	19.949	20.012	VV	12635	348581	26.60%	0.867%
432	20.063	20.012	20.102	VV	12421	521892	39.83%	1.298%
433	20.108	20.102	20.157	VV	8480	238011	18.16%	0.592%
434	20.189	20.157	20.236	VV	8598	342464	26.13%	0.852%
435	20.292	20.236	20.341	VV	15204	650016	49.60%	1.616%
436	20.361	20.341	20.370	VV	10202	167465	12.78%	0.416%
437	20.391	20.370	20.411	VV	11360	259785	19.82%	0.646%
438	20.416	20.411	20.421	VV	10238	60586	4.62%	0.151%
439	20.447	20.421	20.485	VV	11684	401493	30.64%	0.998%
440	20.567	20.485	20.581	VV	11594	624611	47.67%	1.553%
441	20.610	20.581	20.636	VV	13253	393589	30.04%	0.979%
442	20.652	20.636	20.658	VV	12027	155517	11.87%	0.387%
443	20.676	20.658	20.691	VV	12341	239740	18.30%	0.596%
444	20.709	20.691	20.727	VV	12625	266024	20.30%	0.662%
445	20.803	20.727	20.836	VV	15140	891894	68.06%	2.218%
446	20.840	20.836	20.861	VV	13770	204912	15.64%	0.510%
447	20.866	20.861	20.896	VV	13223	262416	20.03%	0.653%
448	20.907	20.896	20.921	VV	12658	185111	14.13%	0.460%
449	20.925	20.921	20.936	VV	12365	111537	8.51%	0.277%
450	20.948	20.936	20.957	VV	12188	151633	11.57%	0.377%
451	20.961	20.957	20.981	VV	12206	168384	12.85%	0.419%
452	20.997	20.981	21.031	VV	11742	347377	26.51%	0.864%
453	21.055	21.031	21.060	VV	11124	185738	14.17%	0.462%
454	21.066	21.060	21.103	VV	11089	272763	20.82%	0.678%
455	21.108	21.103	21.114	VV	10137	69740	5.32%	0.173%
456	21.125	21.114	21.133	VV	10224	111060	8.48%	0.276%

rteres

457	21.139	21.133	21.144	VV	9875	66913	5.11%	0.166%
458	21.148	21.144	21.164	VV	9594	112958	8.62%	0.281%
459	21.190	21.164	21.258	VV	9809	492270	37.57%	1.224%
460	21.262	21.258	21.287	VV	7808	133281	10.17%	0.331%
461	21.329	21.287	21.383	VV	8123	435045	33.20%	1.082%
462	21.387	21.383	21.391	VV	6894	32115	2.45%	0.080%
463	21.428	21.391	21.466	VV	7092	299196	22.83%	0.744%
464	21.491	21.466	21.522	VV	6105	197957	15.11%	0.492%
465	21.540	21.522	21.562	VV	5711	132347	10.10%	0.329%
466	21.621	21.562	21.671	VV	5841	334677	25.54%	0.832%
467	21.725	21.671	21.827	VV	4403	337315	25.74%	0.839%
468	21.849	21.827	21.941	VV	2394	109901	8.39%	0.273%
469	21.980	21.941	22.009	VV	760	26344	2.01%	0.066%
470	22.061	22.009	22.077	VV	483	17920	1.37%	0.045%
471	22.082	22.077	22.094	VV	427	2689	0.21%	0.007%

Sum of corrected areas: 40214206

FG032725.M Wed Apr 09 00:58:16 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015658.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:30
Operator : YP\AJ
Sample : Q1746-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-149-SB02

Integration File: autoint1.e
Quant Time: Apr 09 00:30:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	15.015	2096320	18.298 ug/ml
Target Compounds				

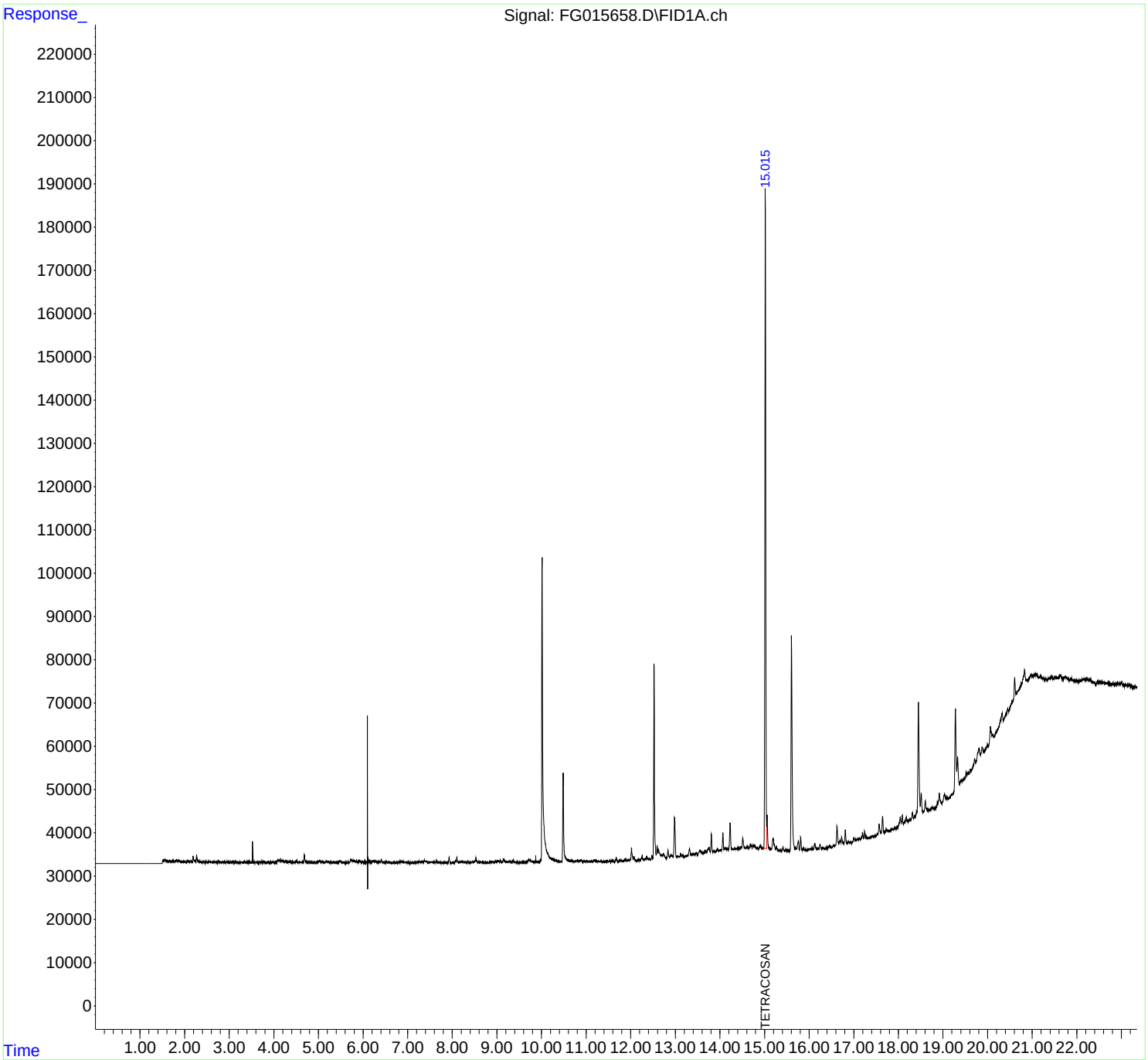
(f)=RT Delta > 1/2 Window (m)=manual int.

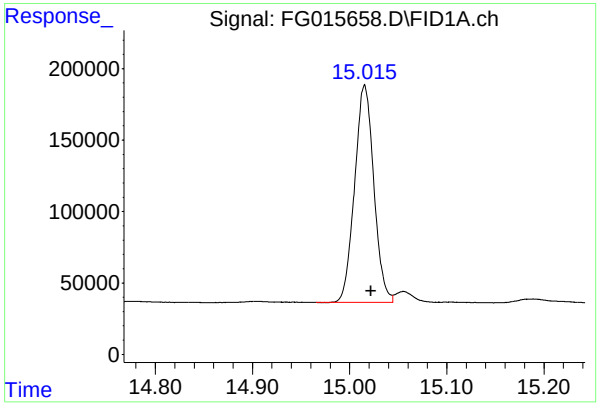
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015658.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:30
Operator : YP\AJ
Sample : Q1746-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-149-SB02

Integration File: autoint1.e
Quant Time: Apr 09 00:30:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.015 min
Delta R.T.: -0.007 mir
Response: 2096320
Conc: 18.30 ug/m

Instrument :
FID_G
ClientSampleId :
B-149-SB02

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015658.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:30
Sample : Q1746-03
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.825	1.800	1.862	BV	364	3009	0.13%	0.014%
2	1.875	1.862	1.903	PV	414	3687	0.16%	0.017%
3	1.907	1.903	1.922	PV	123	689	0.03%	0.003%
4	1.927	1.922	1.959	VV	194	1762	0.08%	0.008%
5	1.962	1.959	1.968	VV	70	474	0.02%	0.002%
6	1.981	1.968	2.025	VV	166	3270	0.14%	0.015%
7	2.034	2.025	2.044	PV	76	688	0.03%	0.003%
8	2.059	2.044	2.085	PV	273	4109	0.18%	0.019%
9	2.088	2.085	2.119	VV	198	2312	0.10%	0.011%
10	2.122	2.119	2.132	VV	172	801	0.04%	0.004%
11	2.143	2.132	2.147	VV	184	1009	0.04%	0.005%
12	2.154	2.147	2.162	VV	157	899	0.04%	0.004%
13	2.169	2.162	2.175	VV	113	677	0.03%	0.003%
14	2.189	2.175	2.224	VV	1450	19978	0.88%	0.094%
15	2.228	2.224	2.245	VV	303	2610	0.12%	0.012%
16	2.267	2.245	2.304	VV	1724	22696	1.00%	0.106%
17	2.309	2.304	2.335	VV	312	3753	0.17%	0.018%
18	2.351	2.335	2.371	VV	178	2935	0.13%	0.014%
19	2.378	2.371	2.385	VV	109	740	0.03%	0.003%
20	2.390	2.385	2.397	VV	142	858	0.04%	0.004%
21	2.402	2.397	2.431	VV	180	1894	0.08%	0.009%
22	2.436	2.431	2.463	VV	131	1721	0.08%	0.008%
23	2.467	2.463	2.485	PV	126	883	0.04%	0.004%
24	2.489	2.485	2.503	VV	102	645	0.03%	0.003%
25	2.539	2.503	2.544	VV	149	2190	0.10%	0.010%
26	2.554	2.544	2.561	VV	149	991	0.04%	0.005%
27	2.564	2.561	2.578	VV	135	861	0.04%	0.004%
28	2.603	2.578	2.611	VV	180	2085	0.09%	0.010%
29	2.618	2.611	2.630	VV	153	1266	0.06%	0.006%
30	2.637	2.630	2.645	VV	113	800	0.04%	0.004%
31	2.652	2.645	2.664	VV	179	986	0.04%	0.005%
32	2.683	2.664	2.698	VV	172	2289	0.10%	0.011%
33	2.703	2.698	2.724	VV	149	1499	0.07%	0.007%
34	2.731	2.724	2.740	VV	114	770	0.03%	0.004%
35	2.742	2.740	2.747	VV	142	384	0.02%	0.002%
36	2.768	2.747	2.786	PV	227	3019	0.13%	0.014%

rteres

37	2.789	2.786	2.808	VV	189	1633	0.07%	0.008%
38	2.814	2.808	2.830	VV	157	1278	0.06%	0.006%
39	2.835	2.830	2.850	VV	157	1018	0.04%	0.005%
40	2.853	2.850	2.880	VV	176	1588	0.07%	0.007%
41	2.901	2.880	2.916	VV	183	2116	0.09%	0.010%
42	2.934	2.916	2.940	VV	134	1276	0.06%	0.006%
43	2.947	2.940	2.953	VV	144	1040	0.05%	0.005%
44	2.958	2.953	2.991	VV	152	3348	0.15%	0.016%
45	3.007	2.991	3.013	VV	242	1517	0.07%	0.007%
46	3.019	3.013	3.026	VV	155	726	0.03%	0.003%
47	3.031	3.026	3.037	VV	122	725	0.03%	0.003%
48	3.040	3.037	3.059	VV	167	1363	0.06%	0.006%
49	3.064	3.059	3.087	VV	151	1641	0.07%	0.008%
50	3.090	3.087	3.098	VV	109	545	0.02%	0.003%
51	3.102	3.098	3.106	PV	102	372	0.02%	0.002%
52	3.127	3.106	3.134	VV	170	1922	0.08%	0.009%
53	3.138	3.134	3.190	VV	215	5002	0.22%	0.023%
54	3.194	3.190	3.216	VV	181	1700	0.07%	0.008%
55	3.222	3.216	3.241	VV	181	1850	0.08%	0.009%
56	3.252	3.241	3.277	VV	185	2711	0.12%	0.013%
57	3.281	3.277	3.286	VV	113	488	0.02%	0.002%
58	3.290	3.286	3.317	VV	106	1879	0.08%	0.009%
59	3.322	3.317	3.329	VV	136	782	0.03%	0.004%
60	3.334	3.329	3.376	VV	182	2936	0.13%	0.014%
61	3.381	3.376	3.387	VV	128	724	0.03%	0.003%
62	3.391	3.387	3.419	VV	107	1979	0.09%	0.009%
63	3.430	3.419	3.451	VV	197	2323	0.10%	0.011%
64	3.455	3.451	3.509	VV	192	3564	0.16%	0.017%
65	3.513	3.509	3.531	VV	339	4773	0.21%	0.022%
66	3.535	3.531	3.540	VV	147	633	0.03%	0.003%
67	3.551	3.540	3.579	VV	154	2152	0.09%	0.010%
68	3.584	3.579	3.604	VV	136	1356	0.06%	0.006%
69	3.610	3.604	3.636	VV	167	1751	0.08%	0.008%
70	3.639	3.636	3.649	VV	227	837	0.04%	0.004%
71	3.655	3.649	3.670	VV	281	1038	0.05%	0.005%
72	3.697	3.670	3.711	VV	193	2489	0.11%	0.012%
73	3.716	3.711	3.721	VV	187	887	0.04%	0.004%
74	3.730	3.721	3.756	VV	341	2302	0.10%	0.011%
75	3.773	3.756	3.778	VV	159	1268	0.06%	0.006%
76	3.783	3.778	3.825	VV	133	2795	0.12%	0.013%
77	3.838	3.825	3.857	VV	144	1834	0.08%	0.009%
78	3.861	3.857	3.871	VV	166	826	0.04%	0.004%
79	3.879	3.871	3.889	VV	135	869	0.04%	0.004%
80	3.893	3.889	3.902	VV	76	485	0.02%	0.002%
81	3.906	3.902	3.911	VV	111	357	0.02%	0.002%
82	3.915	3.911	3.929	VV	139	863	0.04%	0.004%
83	3.935	3.929	3.954	VV	137	1441	0.06%	0.007%
84	3.959	3.954	3.969	VV	140	922	0.04%	0.004%
85	3.986	3.969	4.018	VV	172	3009	0.13%	0.014%
86	4.095	4.018	4.117	VV	700	18646	0.82%	0.087%
87	4.122	4.117	4.134	VV	513	4748	0.21%	0.022%
88	4.152	4.134	4.160	VV	553	7788	0.34%	0.037%
89	4.164	4.160	4.172	VV	530	3449	0.15%	0.016%

rteres

90	4.177	4.172	4.231	VV	457	13552	0.60%	0.064%
91	4.239	4.231	4.255	VV	359	4300	0.19%	0.020%
92	4.262	4.255	4.281	VV	289	4283	0.19%	0.020%
93	4.291	4.281	4.321	VV	301	5943	0.26%	0.028%
94	4.325	4.321	4.344	VV	298	3622	0.16%	0.017%
95	4.349	4.344	4.391	VV	374	6164	0.27%	0.029%
96	4.394	4.391	4.404	VV	208	1476	0.07%	0.007%
97	4.406	4.404	4.425	VV	223	2163	0.10%	0.010%
98	4.432	4.425	4.445	VV	148	1667	0.07%	0.008%
99	4.451	4.445	4.456	VV	179	1016	0.04%	0.005%
100	4.466	4.456	4.480	VV	231	2374	0.10%	0.011%
101	4.485	4.480	4.492	VV	179	1085	0.05%	0.005%
102	4.517	4.492	4.533	VV	503	7360	0.32%	0.035%
103	4.539	4.533	4.563	VV	204	3043	0.13%	0.014%
104	4.584	4.563	4.594	VV	233	3328	0.15%	0.016%
105	4.599	4.594	4.605	VV	186	1191	0.05%	0.006%
106	4.611	4.605	4.621	VV	213	1490	0.07%	0.007%
107	4.640	4.621	4.665	VV	252	4855	0.21%	0.023%
108	4.685	4.665	4.724	VV	1868	25638	1.13%	0.120%
109	4.728	4.724	4.771	VV	258	4843	0.21%	0.023%
110	4.774	4.771	4.786	VV	148	1266	0.06%	0.006%
111	4.799	4.786	4.822	VV	189	3178	0.14%	0.015%
112	4.826	4.822	4.842	VV	170	1466	0.06%	0.007%
113	4.852	4.842	4.859	VV	216	1379	0.06%	0.006%
114	4.864	4.859	4.868	VV	165	639	0.03%	0.003%
115	4.879	4.868	4.897	VV	149	1556	0.07%	0.007%
116	4.905	4.897	4.947	VV	149	2764	0.12%	0.013%
117	5.025	4.947	5.056	VV	486	18085	0.80%	0.085%
118	5.062	5.056	5.107	VV	252	6399	0.28%	0.030%
119	5.116	5.107	5.127	VV	249	2018	0.09%	0.009%
120	5.133	5.127	5.145	VV	193	1508	0.07%	0.007%
121	5.153	5.145	5.157	VV	194	1033	0.05%	0.005%
122	5.175	5.157	5.191	VV	432	5613	0.25%	0.026%
123	5.194	5.191	5.202	VV	263	1315	0.06%	0.006%
124	5.206	5.202	5.211	VV	192	829	0.04%	0.004%
125	5.218	5.211	5.251	VV	190	2768	0.12%	0.013%
126	5.263	5.251	5.277	VV	183	1830	0.08%	0.009%
127	5.289	5.277	5.313	VV	177	2740	0.12%	0.013%
128	5.318	5.313	5.326	VV	141	859	0.04%	0.004%
129	5.336	5.326	5.351	VV	240	2586	0.11%	0.012%
130	5.360	5.351	5.394	VV	151	2746	0.12%	0.013%
131	5.398	5.394	5.419	VV	104	1454	0.06%	0.007%
132	5.423	5.419	5.428	VV	126	350	0.02%	0.002%
133	5.435	5.428	5.439	VV	84	348	0.02%	0.002%
134	5.474	5.439	5.521	PV	465	11060	0.49%	0.052%
135	5.537	5.521	5.544	VV	160	1566	0.07%	0.007%
136	5.546	5.544	5.551	VV	148	427	0.02%	0.002%
137	5.556	5.551	5.561	VV	131	576	0.03%	0.003%
138	5.601	5.561	5.626	VV	157	3235	0.14%	0.015%
139	5.630	5.626	5.645	VV	175	812	0.04%	0.004%
140	5.660	5.645	5.697	VV	259	4010	0.18%	0.019%
141	5.722	5.697	5.727	VV	667	6912	0.30%	0.032%

rteres

142	5.741	5.727	5.767	VV	744	13960	0.62%	0.066%
143	5.772	5.767	5.776	VV	467	2355	0.10%	0.011%
144	5.780	5.776	5.838	VV	530	14819	0.65%	0.070%
145	5.842	5.838	5.845	VV	379	1286	0.06%	0.006%
146	5.847	5.845	5.871	VV	357	4367	0.19%	0.020%
147	5.887	5.871	5.901	VV	332	4762	0.21%	0.022%
148	5.926	5.901	5.954	VV	461	9852	0.43%	0.046%
149	5.959	5.954	5.974	VV	278	2679	0.12%	0.013%
150	5.984	5.974	6.017	VV	336	5793	0.26%	0.027%
151	6.028	6.017	6.035	VV	282	2458	0.11%	0.012%
152	6.038	6.035	6.066	VV	259	3897	0.17%	0.018%
153	6.071	6.066	6.077	VV	151	912	0.04%	0.004%
154	6.081	6.077	6.124	VV	353	33300	1.47%	0.156%
155	6.133	6.124	6.177	VV	545	8835	0.39%	0.041%
156	6.230	6.177	6.266	VV	515	18656	0.82%	0.088%
157	6.277	6.266	6.311	VV	314	7080	0.31%	0.033%
158	6.319	6.311	6.363	VV	275	7121	0.31%	0.033%
159	6.408	6.363	6.449	VV	876	17734	0.78%	0.083%
160	6.473	6.449	6.516	VV	170	5816	0.26%	0.027%
161	6.542	6.516	6.573	VV	252	6243	0.28%	0.029%
162	6.582	6.573	6.644	VV	242	4782	0.21%	0.022%
163	6.661	6.644	6.669	VV	85	857	0.04%	0.004%
164	6.696	6.669	6.720	VV	243	3762	0.17%	0.018%
165	6.822	6.720	6.857	VV	353	13982	0.62%	0.066%
166	6.859	6.857	6.945	VV	342	11383	0.50%	0.053%
167	6.956	6.945	7.020	VV	204	6964	0.31%	0.033%
168	7.023	7.020	7.083	VV	187	3177	0.14%	0.015%
169	7.106	7.083	7.131	PV	101	2083	0.09%	0.010%
170	7.179	7.131	7.193	VV	144	3329	0.15%	0.016%
171	7.246	7.193	7.313	VV	381	17700	0.78%	0.083%
172	7.321	7.313	7.357	VV	303	6498	0.29%	0.030%
173	7.378	7.357	7.401	VV	631	10733	0.47%	0.050%
174	7.418	7.401	7.466	VV	477	10751	0.47%	0.050%
175	7.480	7.466	7.509	VV	272	5527	0.24%	0.026%
176	7.520	7.509	7.557	VV	260	5717	0.25%	0.027%
177	7.599	7.557	7.620	VV	231	7142	0.31%	0.034%
178	7.648	7.620	7.703	VV	431	10977	0.48%	0.052%
179	7.721	7.703	7.748	VV	166	3688	0.16%	0.017%
180	7.765	7.748	7.783	VV	157	2315	0.10%	0.011%
181	7.801	7.783	7.811	VV	141	1709	0.08%	0.008%
182	7.830	7.811	7.843	VV	122	1760	0.08%	0.008%
183	7.860	7.843	7.872	VV	115	1514	0.07%	0.007%
184	7.930	7.872	7.981	VV	1404	20546	0.91%	0.096%
185	8.075	7.981	8.085	VV	416	9374	0.41%	0.044%
186	8.103	8.085	8.133	VV	1382	18004	0.79%	0.084%
187	8.135	8.133	8.146	VV	233	1328	0.06%	0.006%
188	8.181	8.146	8.204	VV	275	7410	0.33%	0.035%
189	8.222	8.204	8.261	VV	297	7308	0.32%	0.034%
190	8.277	8.261	8.298	VV	232	4050	0.18%	0.019%
191	8.314	8.298	8.334	VV	171	2997	0.13%	0.014%
192	8.351	8.334	8.390	VV	264	5411	0.24%	0.025%
193	8.436	8.390	8.469	VV	279	8352	0.37%	0.039%
194	8.501	8.469	8.513	VV	411	6936	0.31%	0.033%

rteres

195	8.532	8.513	8.616	VV	1201	23434	1.03%	0.110%
196	8.630	8.616	8.670	VV	224	5903	0.26%	0.028%
197	8.678	8.670	8.706	VV	194	3167	0.14%	0.015%
198	8.723	8.706	8.738	VV	143	1892	0.08%	0.009%
199	8.770	8.738	8.802	VV	187	4309	0.19%	0.020%
200	8.862	8.802	8.880	PV	312	7735	0.34%	0.036%
201	8.894	8.880	8.917	VV	398	5130	0.23%	0.024%
202	8.967	8.917	8.993	VV	407	10474	0.46%	0.049%
203	9.024	8.993	9.058	VV	511	14079	0.62%	0.066%
204	9.073	9.058	9.113	VV	496	8621	0.38%	0.040%
205	9.149	9.113	9.213	VV	974	25141	1.11%	0.118%
206	9.225	9.213	9.247	VV	254	3797	0.17%	0.018%
207	9.282	9.247	9.316	VV	360	10343	0.46%	0.049%
208	9.328	9.316	9.339	VV	147	1705	0.08%	0.008%
209	9.363	9.339	9.433	VV	682	13511	0.60%	0.063%
210	9.449	9.433	9.494	VV	143	2783	0.12%	0.013%
211	9.520	9.494	9.532	VV	83	1236	0.05%	0.006%
212	9.553	9.532	9.580	VV	199	2980	0.13%	0.014%
213	9.596	9.580	9.620	VV	131	1897	0.08%	0.009%
214	9.627	9.620	9.633	VV	87	547	0.02%	0.003%
215	9.648	9.633	9.680	VV	175	2690	0.12%	0.013%
216	9.711	9.680	9.730	VV	692	12195	0.54%	0.057%
217	9.745	9.730	9.778	VV	738	13315	0.59%	0.062%
218	9.785	9.778	9.805	VV	298	3914	0.17%	0.018%
219	9.828	9.805	9.847	VV	298	5513	0.24%	0.026%
220	9.858	9.847	9.883	VV	217	4687	0.21%	0.022%
221	9.899	9.883	9.948	VV	237	5374	0.24%	0.025%
222	9.978	9.948	9.990	PV	869	10883	0.48%	0.051%
223	10.015	9.990	10.133	VV	70713	1235728	54.49%	5.798%
224	10.145	10.133	10.240	VV	2276	82141	3.62%	0.385%
225	10.252	10.240	10.280	VV	825	16616	0.73%	0.078%
226	10.296	10.280	10.397	VV	606	27808	1.23%	0.130%
227	10.420	10.397	10.450	VV	250	6249	0.28%	0.029%
228	10.487	10.450	10.580	VV	20709	310289	13.68%	1.456%
229	10.595	10.580	10.646	VV	606	17662	0.78%	0.083%
230	10.664	10.646	10.683	VV	447	7300	0.32%	0.034%
231	10.703	10.683	10.750	VV	435	9793	0.43%	0.046%
232	10.770	10.750	10.800	VV	333	7894	0.35%	0.037%
233	10.815	10.800	10.837	VV	333	6474	0.29%	0.030%
234	10.845	10.837	10.863	VV	349	5148	0.23%	0.024%
235	10.888	10.863	10.931	VV	555	12359	0.54%	0.058%
236	10.958	10.931	10.996	VV	293	7764	0.34%	0.036%
237	11.019	10.996	11.071	VV	308	7572	0.33%	0.036%
238	11.084	11.071	11.092	VV	119	910	0.04%	0.004%
239	11.124	11.092	11.152	VV	315	4988	0.22%	0.023%
240	11.179	11.152	11.252	VV	497	15182	0.67%	0.071%
241	11.265	11.252	11.305	VV	173	3765	0.17%	0.018%
242	11.320	11.305	11.390	VV	188	5723	0.25%	0.027%
243	11.412	11.390	11.431	PV	198	2728	0.12%	0.013%
244	11.461	11.431	11.503	VV	162	3718	0.16%	0.017%
245	11.527	11.503	11.552	VV	281	4614	0.20%	0.022%
246	11.593	11.552	11.622	VV	459	8781	0.39%	0.041%

rteres

247	11.673	11.622	11.733	VV	1002	16133	0.71%	0.076%
248	11.753	11.733	11.773	PV	521	6172	0.27%	0.029%
249	11.788	11.773	11.807	VV	365	4349	0.19%	0.020%
250	11.866	11.807	11.880	VV	491	8926	0.39%	0.042%
251	11.889	11.880	11.930	VV	354	6735	0.30%	0.032%
252	11.944	11.930	11.962	VV	330	3906	0.17%	0.018%
253	12.017	11.962	12.060	VV	2934	58809	2.59%	0.276%
254	12.077	12.060	12.136	VV	1014	14457	0.64%	0.068%
255	12.260	12.136	12.300	PV	704	19724	0.87%	0.093%
256	12.358	12.300	12.409	VV	889	22325	0.98%	0.105%
257	12.423	12.409	12.443	VV	255	3709	0.16%	0.017%
258	12.472	12.443	12.491	VV	974	13400	0.59%	0.063%
259	12.522	12.491	12.573	VV	45183	556869	24.55%	2.613%
260	12.591	12.573	12.607	VV	3098	44003	1.94%	0.206%
261	12.621	12.607	12.677	VV	2447	61682	2.72%	0.289%
262	12.690	12.677	12.707	VV	1066	17228	0.76%	0.081%
263	12.735	12.707	12.800	VV	1252	38994	1.72%	0.183%
264	12.835	12.800	12.875	VV	1977	40147	1.77%	0.188%
265	12.907	12.875	12.947	VV	827	25031	1.10%	0.117%
266	12.982	12.947	13.032	VV	9522	174136	7.68%	0.817%
267	13.054	13.032	13.095	VV	543	15703	0.69%	0.074%
268	13.117	13.095	13.146	VV	1107	19633	0.87%	0.092%
269	13.164	13.146	13.196	VV	707	14807	0.65%	0.069%
270	13.232	13.196	13.253	VV	417	11850	0.52%	0.056%
271	13.317	13.253	13.380	VV	1987	68997	3.04%	0.324%
272	13.401	13.380	13.422	VV	771	17542	0.77%	0.082%
273	13.438	13.422	13.449	VV	795	11068	0.49%	0.052%
274	13.470	13.449	13.500	VV	1028	22856	1.01%	0.107%
275	13.550	13.500	13.613	VV	1660	74404	3.28%	0.349%
276	13.651	13.613	13.669	VV	1214	32714	1.44%	0.154%
277	13.685	13.669	13.706	VV	1301	24387	1.08%	0.114%
278	13.755	13.706	13.779	VV	2159	67382	2.97%	0.316%
279	13.806	13.779	13.839	VV	5193	88059	3.88%	0.413%
280	13.852	13.839	13.858	VV	1152	12284	0.54%	0.058%
281	13.876	13.858	13.897	VV	1202	25712	1.13%	0.121%
282	13.955	13.897	13.987	VV	1430	68587	3.02%	0.322%
283	14.064	13.987	14.090	VV	5191	124683	5.50%	0.585%
284	14.110	14.090	14.128	VV	1734	35503	1.57%	0.167%
285	14.144	14.128	14.183	VV	1694	48357	2.13%	0.227%
286	14.226	14.183	14.297	VV	7391	184896	8.15%	0.868%
287	14.332	14.297	14.374	VV	1509	64109	2.83%	0.301%
288	14.381	14.374	14.386	VV	1387	10056	0.44%	0.047%
289	14.399	14.386	14.447	VV	1511	51565	2.27%	0.242%
290	14.474	14.447	14.486	VV	1822	37110	1.64%	0.174%
291	14.510	14.486	14.570	VV	3695	109997	4.85%	0.516%
292	14.605	14.570	14.652	VV	1710	73046	3.22%	0.343%
293	14.695	14.652	14.722	VV	2090	73712	3.25%	0.346%
294	14.743	14.722	14.767	VV	1981	47819	2.11%	0.224%
295	14.777	14.767	14.830	VV	1967	59217	2.61%	0.278%
296	14.837	14.830	14.859	VV	1285	19750	0.87%	0.093%
297	14.905	14.859	14.977	VV	1857	92634	4.08%	0.435%
298	15.015	14.977	15.093	VV	152351	2268001	100.00%	10.642%
299	15.102	15.093	15.147	VV	1223	31950	1.41%	0.150%

rteres

300	15.189	15.147	15.247	VV	3322	107449	4.74%	0.504%
301	15.265	15.247	15.340	VV	1443	40188	1.77%	0.189%
302	15.355	15.340	15.387	VV	418	9417	0.42%	0.044%
303	15.412	15.387	15.443	VV	1129	20236	0.89%	0.095%
304	15.467	15.443	15.493	VV	377	8730	0.38%	0.041%
305	15.513	15.493	15.562	VV	336	8694	0.38%	0.041%
306	15.602	15.562	15.710	VV	49471	848739	37.42%	3.983%
307	15.757	15.710	15.782	VV	2358	52266	2.30%	0.245%
308	15.809	15.782	15.844	VV	3050	44931	1.98%	0.211%
309	15.870	15.844	15.953	VV	586	15372	0.68%	0.072%
310	16.031	15.953	16.049	PV	360	10893	0.48%	0.051%
311	16.067	16.049	16.090	VV	473	6729	0.30%	0.032%
312	16.125	16.090	16.183	VV	1418	30009	1.32%	0.141%
313	16.208	16.183	16.217	VV	205	3038	0.13%	0.014%
314	16.243	16.217	16.287	VV	1193	19248	0.85%	0.090%
315	16.307	16.287	16.367	VV	241	4971	0.22%	0.023%
316	16.382	16.367	16.392	VV	138	1340	0.06%	0.006%
317	16.446	16.392	16.501	PV	391	13369	0.59%	0.063%
318	16.623	16.501	16.666	VV	4592	94130	4.15%	0.442%
319	16.691	16.666	16.709	VV	1212	21882	0.96%	0.103%
320	16.728	16.709	16.776	VV	1892	35026	1.54%	0.164%
321	16.809	16.776	16.849	VV	3382	51873	2.29%	0.243%
322	16.877	16.849	16.900	VV	373	8085	0.36%	0.038%
323	16.920	16.900	16.944	VV	188	3108	0.14%	0.015%
324	17.005	16.944	17.068	PV	781	28428	1.25%	0.133%
325	17.081	17.068	17.085	VV	359	3673	0.16%	0.017%
326	17.125	17.085	17.142	VV	558	14002	0.62%	0.066%
327	17.195	17.142	17.219	VV	1610	31126	1.37%	0.146%
328	17.243	17.219	17.264	VV	1825	26105	1.15%	0.122%
329	17.275	17.264	17.305	VV	626	7790	0.34%	0.037%
330	17.568	17.305	17.613	PV	2382	48714	2.15%	0.229%
331	17.645	17.613	17.687	VV	3806	59656	2.63%	0.280%
332	17.733	17.687	17.766	PV	585	9946	0.44%	0.047%
333	17.930	17.766	17.957	VV	187	5064	0.22%	0.024%
334	18.041	17.957	18.063	PV	2089	45566	2.01%	0.214%
335	18.086	18.063	18.113	VV	2309	33247	1.47%	0.156%
336	18.176	18.113	18.210	VV	1417	36895	1.63%	0.173%
337	18.313	18.210	18.339	VV	1693	44262	1.95%	0.208%
338	18.359	18.339	18.380	VV	573	11477	0.51%	0.054%
339	18.408	18.380	18.416	VV	1658	24424	1.08%	0.115%
340	18.448	18.416	18.489	VV	26198	487357	21.49%	2.287%
341	18.510	18.489	18.554	VV	5223	100757	4.44%	0.473%
342	18.603	18.554	18.689	VV	2935	85760	3.78%	0.402%
343	18.763	18.689	18.773	VV	519	22110	0.97%	0.104%
344	18.782	18.773	18.812	VV	380	6293	0.28%	0.030%
345	18.825	18.812	18.835	VV	125	1285	0.06%	0.006%
346	18.917	18.835	18.973	PV	2867	81228	3.58%	0.381%
347	19.033	18.973	19.060	VV	1691	43665	1.93%	0.205%
348	19.079	19.060	19.110	VV	693	13687	0.60%	0.064%
349	19.194	19.110	19.206	PV	318	4054	0.18%	0.019%
350	19.278	19.206	19.307	VV	19174	355031	15.65%	1.666%
351	19.327	19.307	19.367	VV	7676	159842	7.05%	0.750%

rteres

352	19.411	19.367	19.428	VV	1611	53141	2.34%	0.249%
353	19.518	19.428	19.536	VV	2604	102490	4.52%	0.481%
354	19.559	19.536	19.575	VV	1903	42037	1.85%	0.197%
355	19.616	19.575	19.633	VV	2264	63464	2.80%	0.298%
356	19.708	19.633	19.728	VV	3875	149932	6.61%	0.704%
357	19.806	19.728	19.837	VV	5426	268382	11.83%	1.259%
358	19.879	19.837	19.901	VV	5039	161702	7.13%	0.759%
359	19.997	19.901	20.010	VV	4466	256341	11.30%	1.203%
360	20.063	20.010	20.098	VV	8086	306768	13.53%	1.439%
361	20.107	20.098	20.134	VV	5807	118545	5.23%	0.556%
362	20.324	20.134	20.357	VV	8720	863396	38.07%	4.051%
363	20.449	20.357	20.472	VV	8789	536867	23.67%	2.519%
364	20.607	20.472	20.644	VV	14490	1021255	45.03%	4.792%
365	20.678	20.644	20.689	VV	10897	287990	12.70%	1.351%
366	20.830	20.689	20.863	VV	14078	1249103	55.08%	5.861%
367	20.877	20.863	20.897	VV	11538	231786	10.22%	1.088%
368	20.968	20.897	21.017	VV	11765	822880	36.28%	3.861%
369	21.070	21.017	21.157	VV	11017	879419	38.78%	4.127%
370	21.187	21.157	21.323	VV	9676	856575	37.77%	4.019%
371	21.433	21.323	21.473	VV	7061	637732	28.12%	2.992%
372	21.484	21.473	21.493	VV	6348	75464	3.33%	0.354%
373	21.511	21.493	21.547	VV	6341	195685	8.63%	0.918%
374	21.554	21.547	21.587	VV	5827	135383	5.97%	0.635%
375	21.635	21.587	21.686	VV	5629	309872	13.66%	1.454%
376	21.749	21.686	21.835	VV	4381	342222	15.09%	1.606%
377	21.877	21.835	21.917	VV	2668	120915	5.33%	0.567%
378	21.941	21.917	21.971	VV	1636	50531	2.23%	0.237%
379	21.992	21.971	22.023	VV	1199	31622	1.39%	0.148%
380	22.056	22.023	22.073	VV	601	14695	0.65%	0.069%
381	22.078	22.073	22.087	VV	318	2096	0.09%	0.010%
382	22.090	22.087	22.096	VV	210	926	0.04%	0.004%

Sum of corrected areas: 21311487

FG032725.M Wed Apr 09 00:58:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015653.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 12:50
Operator : YP\AJ
Sample : PB167510BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BL

Integration File: autoint1.e
Quant Time: Apr 09 00:28:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.016	1859144	16.228 ug/ml
	Target Compounds			

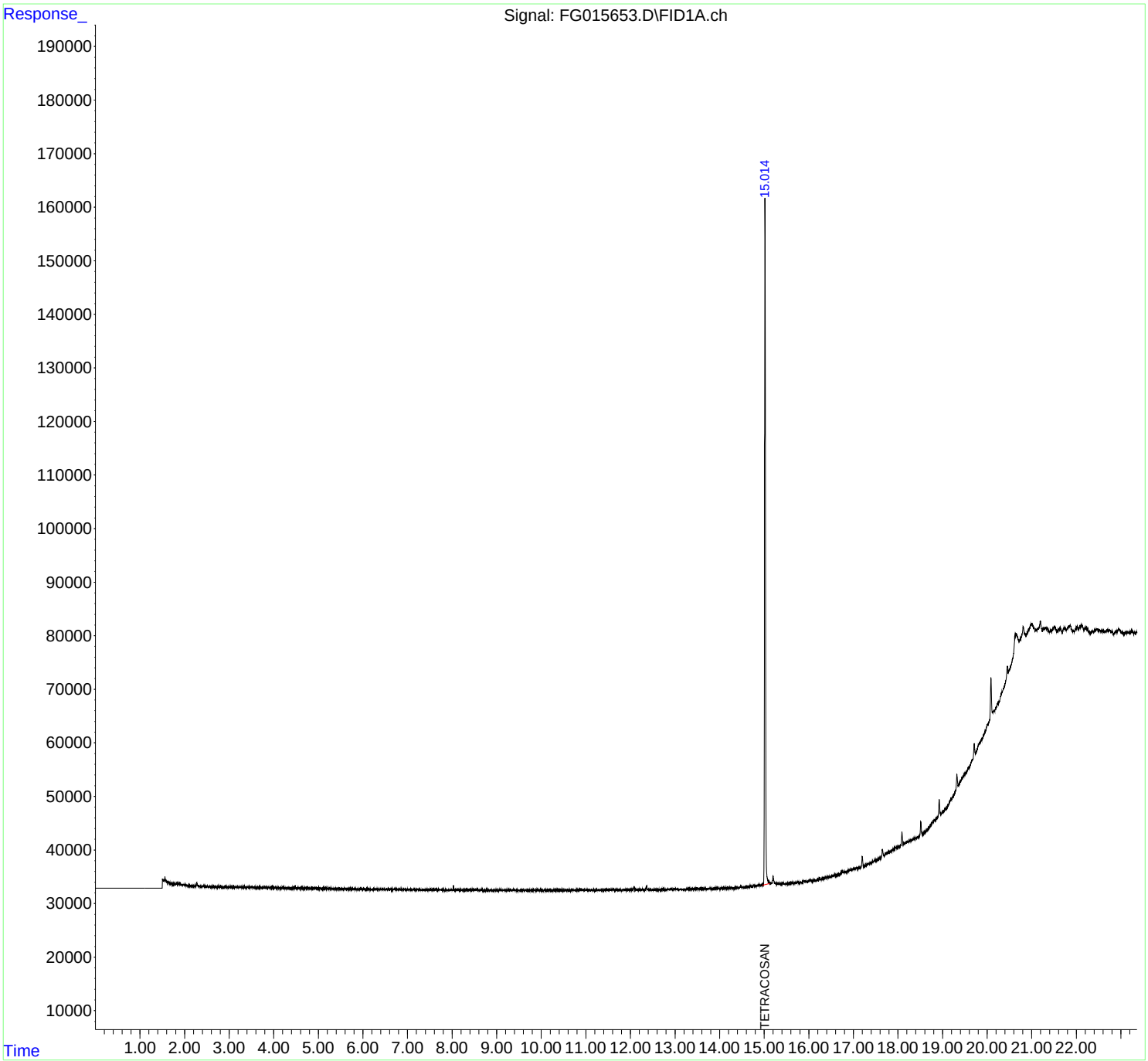
(f)=RT Delta > 1/2 Window (m)=manual int.

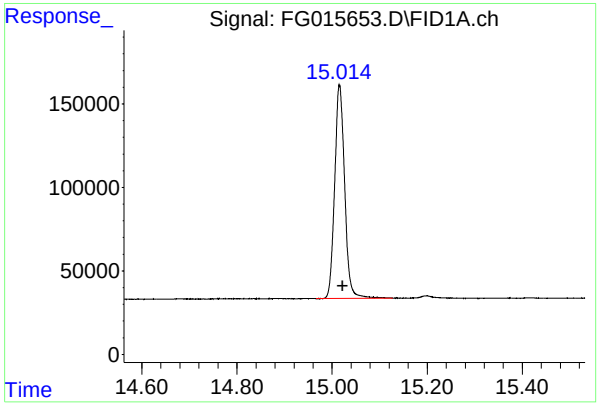
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015653.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 12:50
Operator : YP\AJ
Sample : PB167510BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BL

Integration File: autoint1.e
Quant Time: Apr 09 00:28:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.016 min
Delta R.T.: -0.007 mi
Response: 1859144
Conc: 16.23 ug/m

Instrument :
FID_G
ClientSampleId :
PB167510BL

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015653.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 12:50
Sample : PB167510BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.016	14.966	15.128	BB	127487	1859144	100.00%	100.000%

Sum of corrected areas: 1859144

FG032725.M Wed Apr 09 00:53:31 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015654.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 13:20
Operator : YP\AJ
Sample : PB167510BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BS

Integration File: autoint1.e
Quant Time: Apr 09 00:28:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.016	1982793	17.307 ug/ml
	Target Compounds			
1)	N-OCTANE	1.985	1456042	12.527 ug/ml
2)	N-DECANE	4.514	1869252	15.823 ug/ml
3)	N-DODECANE	6.696	2011798	16.568 ug/ml
4)	N-TETRADECANE	8.533	2031077	16.107 ug/ml
5)	N-HEXADECANE	10.148	2142178	16.637 ug/ml
6)	N-OCTADECANE	11.596	2272281	17.248 ug/ml
7)	N-EICOSANE	12.912	2251158	16.812 ug/ml
8)	N-DOCOSANE	14.114	2241118	17.246 ug/ml
10)	N-TETRACOSANE	15.221	2263252	17.473 ug/ml
11)	N-HEXACOSANE	16.246	2187317	17.186 ug/ml
12)	N-OCTACOSANE	17.199	2146273	17.170 ug/ml
13)	N-TRIACONTANE	18.089	2066980	16.513 ug/ml
14)	N-DOTRIACONTANE	18.924	1673205	14.099 ug/ml
15)	N-TETRATRIACONTANE	19.707	1046920	10.030 ug/ml
16)	N-HEXATRIACONTANE	20.450	683798	7.802 ug/ml
17)	N-OCTATRIACONTANE	21.194	543786	7.286 ug/ml
18)	N-TETRACONTANE	22.120	506549	7.647 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

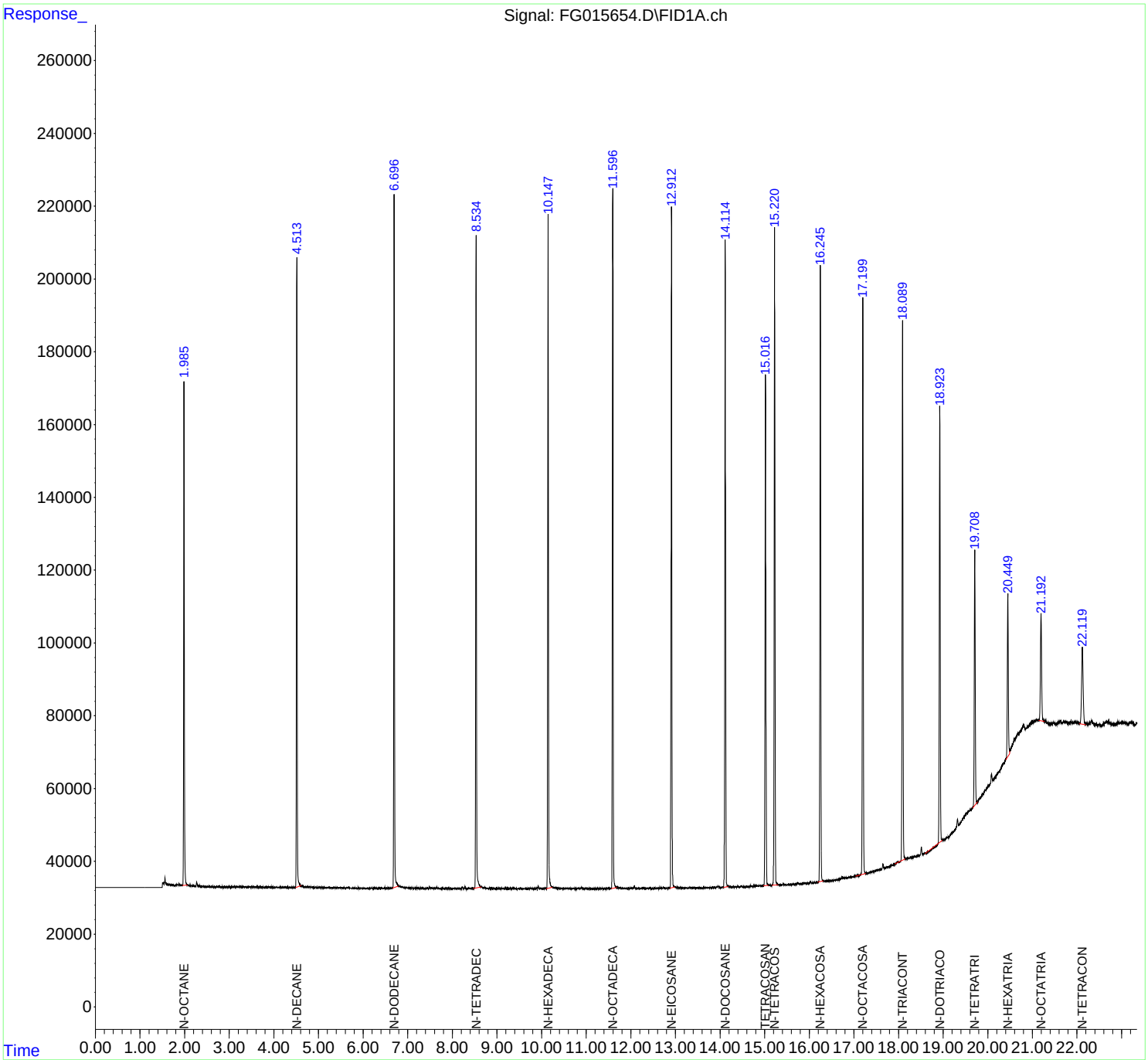
Sample Results: **FG015654.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015654.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 13:20
Operator : YP\AJ
Sample : PB167510BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BS

Integration File: autoint1.e
Quant Time: Apr 09 00:28:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015654.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 13:20
Sample : PB167510BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.985	1.943	2.067	BB	138224	1456042	64.08%	4.641%
2	4.514	4.484	4.606	BB	173040	1869252	82.26%	5.958%
3	6.696	6.658	6.793	BB	189485	2011798	88.54%	6.412%
4	8.533	8.468	8.644	BB	178198	2031077	89.38%	6.473%
5	10.148	10.106	10.241	BB	184880	2142178	94.27%	6.827%
6	11.596	11.560	11.679	BB	192306	2272281	100.00%	7.242%
7	12.912	12.873	12.988	BB	186932	2251158	99.07%	7.175%
8	14.114	14.075	14.183	BB	177499	2241118	98.63%	7.143%
9	15.016	14.965	15.091	BB	140099	1982793	87.26%	6.320%
10	15.221	15.158	15.302	BB	180436	2263252	99.60%	7.213%
11	16.246	16.197	16.316	BB	169258	2187317	96.26%	6.971%
12	17.199	17.046	17.273	BB	158487	2146273	94.45%	6.841%
13	18.089	17.914	18.153	BB	147827	2066980	90.96%	6.588%
14	18.924	18.601	18.986	BB	119367	1673205	73.64%	5.333%
15	19.707	19.660	19.764	BV	70209	1046920	46.07%	3.337%
16	20.450	20.400	20.493	BV	44745	683798	30.09%	2.179%
17	21.194	21.140	21.268	BB	29187	543786	23.93%	1.733%
18	22.120	22.049	22.197	BB	21134	506549	22.29%	1.614%
			Sum of corrected areas:			31375775		

FG032725.M Wed Apr 09 00:54:34 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015659.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:59
Operator : YP\AJ
Sample : Q1744-03MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02MS

Integration File: autoint1.e
Quant Time: Apr 09 00:30:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.014	1325739	11.572 ug/ml
	Target Compounds			
1)	N-OCTANE	1.985	1493139	12.846 ug/ml
2)	N-DECANE	4.513	1745219	14.773 ug/ml
3)	N-DODECANE	6.696	1875048	15.442 ug/ml
4)	N-TETRADECANE	8.532	1932341	15.324 ug/ml
5)	N-HEXADECANE	10.146	2110395	16.390 ug/ml
6)	N-OCTADECANE	11.595	2232897	16.949 ug/ml
7)	N-EICOSANE	12.910	2223860	16.608 ug/ml
8)	N-DOCOSANE	14.113	2201270	16.940 ug/ml
10)	N-TETRACOSANE	15.219	2264399	17.482 ug/ml
11)	N-HEXACOSANE	16.244	2143852	16.844 ug/ml
12)	N-OCTACOSANE	17.196	2110410	16.883 ug/ml
13)	N-TRIACONTANE	18.086	2033911	16.249 ug/ml
14)	N-DOTRIACONTANE	18.921	1723189	14.520 ug/ml
15)	N-TETRATRIACONTANE	19.706	1038234	9.947 ug/ml
16)	N-HEXATRIACONTANE	20.447	652010	7.439 ug/ml
17)	N-OCTATRIACONTANE	21.191	549184	7.359 ug/ml
18)	N-TETRACONTANE	22.115	538506	8.130 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

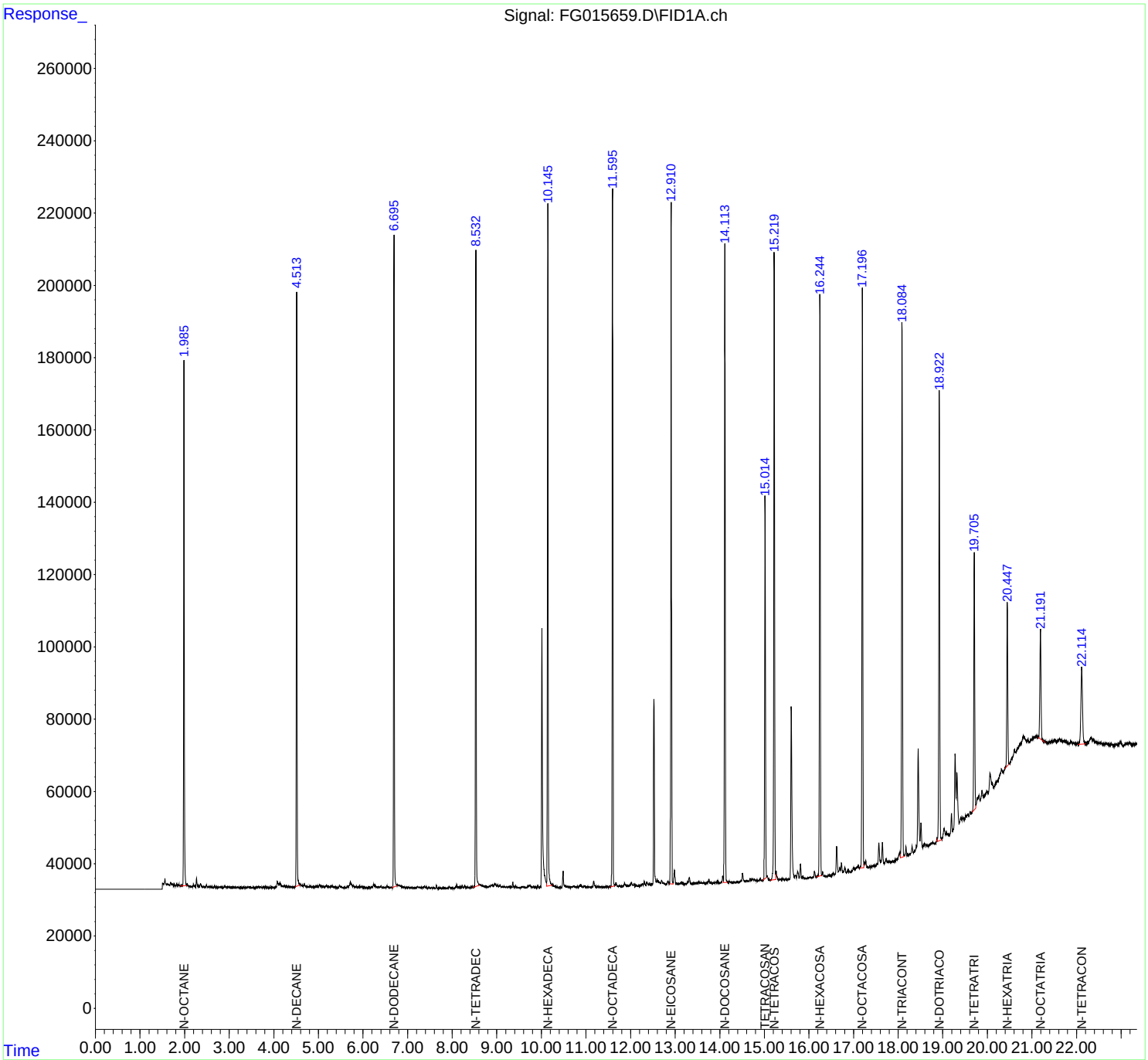
Sample Results: **FG015659.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015659.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:59
Operator : YP\AJ
Sample : Q1744-03MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02MS

Integration File: autoint1.e
Quant Time: Apr 09 00:30:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015659.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:59
Sample : Q1744-03MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.823	1.800	1.850	BV	625	6361	0.28%	0.013%
2	1.855	1.850	1.859	VV	124	605	0.03%	0.001%
3	1.875	1.859	1.901	VV	498	5406	0.24%	0.011%
4	1.926	1.901	1.953	PV	325	4786	0.21%	0.010%
5	1.985	1.953	2.054	VV	145221	1504283	65.99%	3.050%
6	2.062	2.054	2.108	VV	484	7786	0.34%	0.016%
7	2.116	2.108	2.134	VV	226	1798	0.08%	0.004%
8	2.141	2.134	2.148	VV	153	784	0.03%	0.002%
9	2.154	2.148	2.161	VV	159	784	0.03%	0.002%
10	2.164	2.161	2.177	VV	77	653	0.03%	0.001%
11	2.199	2.177	2.245	PV	557	8290	0.36%	0.017%
12	2.267	2.245	2.308	VV	2473	30717	1.35%	0.062%
13	2.312	2.308	2.320	VV	303	1406	0.06%	0.003%
14	2.323	2.320	2.336	VV	146	1442	0.06%	0.003%
15	2.356	2.336	2.408	VV	1028	17496	0.77%	0.035%
16	2.426	2.408	2.471	VV	218	3517	0.15%	0.007%
17	2.489	2.471	2.538	VV	633	9772	0.43%	0.020%
18	2.560	2.538	2.586	VV	219	3699	0.16%	0.008%
19	2.590	2.586	2.596	VV	196	680	0.03%	0.001%
20	2.601	2.596	2.605	VV	138	598	0.03%	0.001%
21	2.610	2.605	2.617	VV	175	721	0.03%	0.001%
22	2.621	2.617	2.652	VV	155	1624	0.07%	0.003%
23	2.675	2.652	2.702	PV	406	6172	0.27%	0.013%
24	2.703	2.702	2.713	VV	167	658	0.03%	0.001%
25	2.717	2.713	2.726	VV	162	616	0.03%	0.001%
26	2.751	2.726	2.759	VV	176	1762	0.08%	0.004%
27	2.764	2.759	2.777	VV	182	1335	0.06%	0.003%
28	2.781	2.777	2.796	VV	132	1242	0.05%	0.003%
29	2.802	2.796	2.833	VV	97	1167	0.05%	0.002%
30	2.840	2.833	2.849	VV	161	851	0.04%	0.002%
31	2.856	2.849	2.863	VV	113	649	0.03%	0.001%
32	2.885	2.863	2.890	VV	255	2410	0.11%	0.005%
33	2.900	2.890	2.908	VV	307	2628	0.12%	0.005%
34	2.910	2.908	2.924	VV	316	2062	0.09%	0.004%
35	2.930	2.924	2.935	VV	231	1230	0.05%	0.002%
36	2.939	2.935	2.963	VV	204	2982	0.13%	0.006%

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37	2.973	2.963	2.998	VV	361	5043	0.22%	0.010%
38	3.002	2.998	3.015	VV	155	1207	0.05%	0.002%
39	3.019	3.015	3.037	VV	151	1294	0.06%	0.003%
40	3.041	3.037	3.047	VV	167	741	0.03%	0.002%
41	3.053	3.047	3.068	VV	223	1694	0.07%	0.003%
42	3.074	3.068	3.085	VV	218	1111	0.05%	0.002%
43	3.096	3.085	3.101	VV	187	934	0.04%	0.002%
44	3.106	3.101	3.117	VV	203	1408	0.06%	0.003%
45	3.125	3.117	3.142	VV	252	2526	0.11%	0.005%
46	3.145	3.142	3.157	VV	204	1117	0.05%	0.002%
47	3.162	3.157	3.167	VV	174	678	0.03%	0.001%
48	3.178	3.167	3.192	VV	188	2185	0.10%	0.004%
49	3.197	3.192	3.224	VV	162	2136	0.09%	0.004%
50	3.228	3.224	3.238	VV	107	638	0.03%	0.001%
51	3.250	3.238	3.305	VV	239	3480	0.15%	0.007%
52	3.332	3.305	3.338	PV	178	1383	0.06%	0.003%
53	3.360	3.338	3.371	VV	126	1890	0.08%	0.004%
54	3.388	3.371	3.394	VV	203	1895	0.08%	0.004%
55	3.413	3.394	3.444	VV	280	6359	0.28%	0.013%
56	3.461	3.444	3.477	VV	238	3153	0.14%	0.006%
57	3.481	3.477	3.496	VV	166	1533	0.07%	0.003%
58	3.505	3.496	3.517	VV	189	1306	0.06%	0.003%
59	3.531	3.517	3.577	VV	201	3985	0.17%	0.008%
60	3.582	3.577	3.589	VV	140	727	0.03%	0.001%
61	3.597	3.589	3.614	VV	156	1853	0.08%	0.004%
62	3.618	3.614	3.625	VV	208	1164	0.05%	0.002%
63	3.645	3.625	3.661	VV	320	4945	0.22%	0.010%
64	3.668	3.661	3.687	VV	213	2805	0.12%	0.006%
65	3.707	3.687	3.731	VV	291	5324	0.23%	0.011%
66	3.735	3.731	3.742	VV	187	874	0.04%	0.002%
67	3.751	3.742	3.768	VV	246	2126	0.09%	0.004%
68	3.782	3.768	3.792	VV	156	1567	0.07%	0.003%
69	3.815	3.792	3.843	VV	337	5495	0.24%	0.011%
70	3.846	3.843	3.854	VV	187	917	0.04%	0.002%
71	3.864	3.854	3.887	VV	188	1987	0.09%	0.004%
72	3.892	3.887	3.908	VV	167	1001	0.04%	0.002%
73	3.910	3.908	3.926	VV	152	963	0.04%	0.002%
74	3.938	3.926	3.957	VV	234	2676	0.12%	0.005%
75	3.966	3.957	3.975	VV	261	2143	0.09%	0.004%
76	3.978	3.975	3.984	VV	211	949	0.04%	0.002%
77	3.987	3.984	3.992	VV	164	679	0.03%	0.001%
78	3.997	3.992	4.001	VV	187	694	0.03%	0.001%
79	4.005	4.001	4.021	VV	123	1051	0.05%	0.002%
80	4.023	4.021	4.044	VV	204	1596	0.07%	0.003%
81	4.079	4.044	4.113	VV	1803	40720	1.79%	0.083%
82	4.129	4.113	4.191	VV	1250	42801	1.88%	0.087%
83	4.195	4.191	4.216	VV	575	7594	0.33%	0.015%
84	4.238	4.216	4.277	VV	625	17437	0.76%	0.035%
85	4.292	4.277	4.324	VV	508	10299	0.45%	0.021%
86	4.333	4.324	4.373	VV	410	9551	0.42%	0.019%
87	4.389	4.373	4.396	VV	344	3821	0.17%	0.008%
88	4.400	4.396	4.439	VV	291	6354	0.28%	0.013%
89	4.443	4.439	4.449	VV	246	1516	0.07%	0.003%

rteres

90	4.454	4.449	4.466	VV	303	2350	0.10%	0.005%
91	4.513	4.466	4.622	VV	164917	1803504	79.11%	3.657%
92	4.631	4.622	4.636	VV	810	6166	0.27%	0.013%
93	4.639	4.636	4.665	VV	777	10739	0.47%	0.022%
94	4.685	4.665	4.721	VV	1248	25086	1.10%	0.051%
95	4.727	4.721	4.742	VV	461	5323	0.23%	0.011%
96	4.747	4.742	4.754	VV	428	2634	0.12%	0.005%
97	4.766	4.754	4.769	VV	395	3107	0.14%	0.006%
98	4.772	4.769	4.784	VV	379	2609	0.11%	0.005%
99	4.798	4.784	4.814	VV	400	6070	0.27%	0.012%
100	4.819	4.814	4.849	VV	363	6380	0.28%	0.013%
101	4.861	4.849	4.871	VV	300	3670	0.16%	0.007%
102	4.887	4.871	4.895	VV	345	4245	0.19%	0.009%
103	4.898	4.895	4.902	VV	337	1138	0.05%	0.002%
104	4.911	4.902	4.932	VV	333	5242	0.23%	0.011%
105	4.943	4.932	4.954	VV	436	4555	0.20%	0.009%
106	4.957	4.954	4.962	VV	308	1676	0.07%	0.003%
107	4.977	4.962	4.993	VV	461	6955	0.31%	0.014%
108	5.029	4.993	5.062	VV	974	25640	1.12%	0.052%
109	5.067	5.062	5.085	VV	537	6545	0.29%	0.013%
110	5.099	5.085	5.117	VV	538	8595	0.38%	0.017%
111	5.121	5.117	5.154	VV	416	7711	0.34%	0.016%
112	5.177	5.154	5.208	VV	666	16114	0.71%	0.033%
113	5.222	5.208	5.231	VV	494	5802	0.25%	0.012%
114	5.237	5.231	5.254	VV	468	5824	0.26%	0.012%
115	5.270	5.254	5.286	VV	408	7213	0.32%	0.015%
116	5.309	5.286	5.332	VV	631	11563	0.51%	0.023%
117	5.339	5.332	5.390	VV	442	9432	0.41%	0.019%
118	5.397	5.390	5.426	VV	253	4199	0.18%	0.009%
119	5.432	5.426	5.454	VV	239	3199	0.14%	0.006%
120	5.473	5.454	5.509	VV	650	13665	0.60%	0.028%
121	5.511	5.509	5.527	VV	361	3394	0.15%	0.007%
122	5.533	5.527	5.543	VV	258	2080	0.09%	0.004%
123	5.550	5.543	5.570	VV	230	2781	0.12%	0.006%
124	5.572	5.570	5.576	VV	156	428	0.02%	0.001%
125	5.580	5.576	5.585	VV	147	683	0.03%	0.001%
126	5.595	5.585	5.613	VV	195	2163	0.09%	0.004%
127	5.617	5.613	5.622	VV	122	510	0.02%	0.001%
128	5.656	5.622	5.673	VV	741	11066	0.49%	0.022%
129	5.689	5.673	5.694	VV	713	6681	0.29%	0.014%
130	5.713	5.694	5.817	VV	1664	61278	2.69%	0.124%
131	5.821	5.817	5.835	VV	401	3651	0.16%	0.007%
132	5.853	5.835	5.880	VV	565	9934	0.44%	0.020%
133	5.887	5.880	5.904	VV	363	4307	0.19%	0.009%
134	5.925	5.904	5.937	VV	588	7927	0.35%	0.016%
135	5.950	5.937	5.965	VV	531	6959	0.31%	0.014%
136	5.980	5.965	5.993	VV	433	5878	0.26%	0.012%
137	6.008	5.993	6.024	VV	365	5199	0.23%	0.011%
138	6.031	6.024	6.059	VV	360	4838	0.21%	0.010%
139	6.062	6.059	6.112	VV	180	3710	0.16%	0.008%
140	6.116	6.112	6.121	VV	193	697	0.03%	0.001%
141	6.144	6.121	6.164	VV	335	5842	0.26%	0.012%

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142	6.203	6.164	6.213	VV	343	8267	0.36%	0.017%
143	6.237	6.213	6.267	VV	1124	23156	1.02%	0.047%
144	6.271	6.267	6.302	VV	705	10555	0.46%	0.021%
145	6.309	6.302	6.316	VV	350	2680	0.12%	0.005%
146	6.345	6.316	6.371	VV	391	9653	0.42%	0.020%
147	6.380	6.371	6.389	VV	382	3250	0.14%	0.007%
148	6.407	6.389	6.429	VV	585	9386	0.41%	0.019%
149	6.437	6.429	6.454	VV	228	2676	0.12%	0.005%
150	6.460	6.454	6.474	VV	259	2260	0.10%	0.005%
151	6.517	6.474	6.520	VV	282	5588	0.25%	0.011%
152	6.537	6.520	6.568	VV	709	12953	0.57%	0.026%
153	6.573	6.568	6.604	VV	309	5231	0.23%	0.011%
154	6.619	6.604	6.651	VV	322	6526	0.29%	0.013%
155	6.656	6.651	6.661	VV	176	886	0.04%	0.002%
156	6.696	6.661	6.780	VV	180337	1911130	83.83%	3.875%
157	6.790	6.780	6.799	VV	967	9702	0.43%	0.020%
158	6.802	6.799	6.834	VV	893	16610	0.73%	0.034%
159	6.848	6.834	6.897	VV	793	19976	0.88%	0.041%
160	6.904	6.897	6.926	VV	382	5748	0.25%	0.012%
161	6.929	6.926	6.942	VV	330	2531	0.11%	0.005%
162	6.947	6.942	6.959	VV	288	2676	0.12%	0.005%
163	6.963	6.959	6.970	VV	257	1622	0.07%	0.003%
164	6.978	6.970	7.004	VV	379	5076	0.22%	0.010%
165	7.013	7.004	7.017	VV	215	1259	0.06%	0.003%
166	7.026	7.017	7.058	VV	236	4299	0.19%	0.009%
167	7.063	7.058	7.072	VV	149	1184	0.05%	0.002%
168	7.079	7.072	7.089	VV	137	1164	0.05%	0.002%
169	7.094	7.089	7.097	VV	182	731	0.03%	0.001%
170	7.101	7.097	7.117	VV	218	1761	0.08%	0.004%
171	7.136	7.117	7.144	VV	155	1832	0.08%	0.004%
172	7.148	7.144	7.150	VV	172	581	0.03%	0.001%
173	7.157	7.150	7.170	VV	192	1656	0.07%	0.003%
174	7.177	7.170	7.188	VV	207	1468	0.06%	0.003%
175	7.217	7.188	7.257	VV	429	11794	0.52%	0.024%
176	7.275	7.257	7.285	VV	349	4640	0.20%	0.009%
177	7.290	7.285	7.307	VV	284	2532	0.11%	0.005%
178	7.312	7.307	7.316	VV	213	847	0.04%	0.002%
179	7.346	7.316	7.359	VV	322	6309	0.28%	0.013%
180	7.378	7.359	7.402	VV	578	9300	0.41%	0.019%
181	7.420	7.402	7.449	VV	434	5970	0.26%	0.012%
182	7.474	7.449	7.503	VV	302	4594	0.20%	0.009%
183	7.525	7.503	7.544	VV	214	2775	0.12%	0.006%
184	7.548	7.544	7.555	VV	148	844	0.04%	0.002%
185	7.560	7.555	7.572	VV	143	1018	0.04%	0.002%
186	7.589	7.572	7.606	VV	192	2500	0.11%	0.005%
187	7.616	7.606	7.620	VV	106	459	0.02%	0.001%
188	7.647	7.620	7.671	VV	947	11004	0.48%	0.022%
189	7.675	7.671	7.689	VV	105	799	0.04%	0.002%
190	7.709	7.689	7.742	VV	152	2167	0.10%	0.004%
191	7.762	7.742	7.769	PV	117	1005	0.04%	0.002%
192	7.772	7.769	7.779	VV	129	563	0.02%	0.001%
193	7.787	7.779	7.800	VV	180	1311	0.06%	0.003%
194	7.817	7.800	7.830	VV	158	2033	0.09%	0.004%

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195	7.832	7.830	7.855	VV	186	913	0.04%	0.002%
196	7.867	7.855	7.882	VV	107	899	0.04%	0.002%
197	7.907	7.882	7.914	PV	158	1910	0.08%	0.004%
198	7.930	7.914	7.973	VV	543	8390	0.37%	0.017%
199	7.989	7.973	8.001	VV	144	1887	0.08%	0.004%
200	8.015	8.001	8.036	VV	189	2153	0.09%	0.004%
201	8.080	8.036	8.086	VV	446	6735	0.30%	0.014%
202	8.103	8.086	8.127	VV	1009	14660	0.64%	0.030%
203	8.134	8.127	8.149	VV	434	4774	0.21%	0.010%
204	8.179	8.149	8.202	VV	462	10915	0.48%	0.022%
205	8.222	8.202	8.252	VV	892	13412	0.59%	0.027%
206	8.280	8.252	8.332	VV	923	15990	0.70%	0.032%
207	8.346	8.332	8.375	VV	368	6439	0.28%	0.013%
208	8.389	8.375	8.394	VV	218	1797	0.08%	0.004%
209	8.431	8.394	8.450	VV	449	10743	0.47%	0.022%
210	8.453	8.450	8.471	VV	443	3872	0.17%	0.008%
211	8.532	8.471	8.627	VV	176816	1989236	87.26%	4.034%
212	8.632	8.627	8.662	VV	901	17433	0.76%	0.035%
213	8.675	8.662	8.701	VV	741	15296	0.67%	0.031%
214	8.714	8.701	8.731	VV	607	9632	0.42%	0.020%
215	8.735	8.731	8.752	VV	523	5441	0.24%	0.011%
216	8.767	8.752	8.791	VV	477	9088	0.40%	0.018%
217	8.795	8.791	8.810	VV	344	3645	0.16%	0.007%
218	8.834	8.810	8.847	VV	603	10441	0.46%	0.021%
219	8.867	8.847	8.877	VV	788	11827	0.52%	0.024%
220	8.891	8.877	8.915	VV	905	17574	0.77%	0.036%
221	8.956	8.915	8.997	VV	1140	42422	1.86%	0.086%
222	9.018	8.997	9.048	VV	823	20942	0.92%	0.042%
223	9.073	9.048	9.112	VV	971	21483	0.94%	0.044%
224	9.126	9.112	9.135	VV	433	4844	0.21%	0.010%
225	9.147	9.135	9.153	VV	452	3887	0.17%	0.008%
226	9.157	9.153	9.171	VV	315	3067	0.13%	0.006%
227	9.187	9.171	9.193	VV	331	3558	0.16%	0.007%
228	9.198	9.193	9.210	VV	316	2636	0.12%	0.005%
229	9.218	9.210	9.239	VV	365	4774	0.21%	0.010%
230	9.279	9.239	9.305	VV	486	12697	0.56%	0.026%
231	9.310	9.305	9.328	VV	265	3024	0.13%	0.006%
232	9.332	9.328	9.336	VV	266	1204	0.05%	0.002%
233	9.362	9.336	9.386	VV	1694	22529	0.99%	0.046%
234	9.399	9.386	9.409	VV	437	5084	0.22%	0.010%
235	9.413	9.409	9.459	VV	413	7396	0.32%	0.015%
236	9.468	9.459	9.477	VV	184	1186	0.05%	0.002%
237	9.482	9.477	9.497	VV	127	1100	0.05%	0.002%
238	9.511	9.497	9.516	VV	132	991	0.04%	0.002%
239	9.554	9.516	9.559	VV	298	3817	0.17%	0.008%
240	9.570	9.559	9.574	VV	268	2062	0.09%	0.004%
241	9.581	9.574	9.625	VV	315	6323	0.28%	0.013%
242	9.643	9.625	9.665	VV	219	3836	0.17%	0.008%
243	9.668	9.665	9.675	VV	151	759	0.03%	0.002%
244	9.703	9.675	9.725	VV	804	14187	0.62%	0.029%
245	9.744	9.725	9.774	VV	755	14729	0.65%	0.030%
246	9.779	9.774	9.799	VV	360	3775	0.17%	0.008%

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247	9.814	9.799	9.818	VV	296	2609	0.11%	0.005%
248	9.823	9.818	9.857	VV	323	4483	0.20%	0.009%
249	9.868	9.857	9.890	VV	199	2941	0.13%	0.006%
250	9.895	9.890	9.907	VV	136	907	0.04%	0.002%
251	9.925	9.907	9.957	VV	858	9339	0.41%	0.019%
252	9.977	9.957	9.989	VV	459	5141	0.23%	0.010%
253	10.014	9.989	10.115	VV	71111	1093590	47.97%	2.218%
254	10.146	10.115	10.239	VV	188414	2152966	94.44%	4.366%
255	10.248	10.239	10.275	VV	919	15625	0.69%	0.032%
256	10.295	10.275	10.329	VV	545	14139	0.62%	0.029%
257	10.333	10.329	10.357	VV	279	3350	0.15%	0.007%
258	10.361	10.357	10.374	VV	216	1675	0.07%	0.003%
259	10.380	10.374	10.400	VV	179	1864	0.08%	0.004%
260	10.407	10.400	10.412	VV	169	963	0.04%	0.002%
261	10.417	10.412	10.424	VV	187	936	0.04%	0.002%
262	10.426	10.424	10.442	VV	153	1029	0.05%	0.002%
263	10.487	10.442	10.520	VV	4637	65487	2.87%	0.133%
264	10.531	10.520	10.558	VV	640	10091	0.44%	0.020%
265	10.581	10.558	10.619	VV	359	10045	0.44%	0.020%
266	10.630	10.619	10.652	VV	263	3495	0.15%	0.007%
267	10.664	10.652	10.697	VV	312	4507	0.20%	0.009%
268	10.716	10.697	10.725	VV	434	5425	0.24%	0.011%
269	10.728	10.725	10.747	VV	450	4004	0.18%	0.008%
270	10.752	10.747	10.756	VV	205	961	0.04%	0.002%
271	10.767	10.756	10.775	VV	294	2731	0.12%	0.006%
272	10.780	10.775	10.801	VV	243	3299	0.14%	0.007%
273	10.811	10.801	10.826	VV	330	3574	0.16%	0.007%
274	10.849	10.826	10.872	VV	461	9807	0.43%	0.020%
275	10.889	10.872	10.906	VV	885	10947	0.48%	0.022%
276	10.915	10.906	10.935	VV	316	4354	0.19%	0.009%
277	10.960	10.935	10.989	VV	436	9626	0.42%	0.020%
278	10.995	10.989	11.034	VV	233	5018	0.22%	0.010%
279	11.037	11.034	11.043	VV	251	971	0.04%	0.002%
280	11.050	11.043	11.060	VV	154	1473	0.06%	0.003%
281	11.072	11.060	11.099	VV	228	2938	0.13%	0.006%
282	11.116	11.099	11.135	VV	249	2839	0.12%	0.006%
283	11.174	11.135	11.256	PV	1775	38110	1.67%	0.077%
284	11.265	11.256	11.279	VV	231	2447	0.11%	0.005%
285	11.282	11.279	11.302	VV	191	1971	0.09%	0.004%
286	11.311	11.302	11.333	VV	199	3137	0.14%	0.006%
287	11.341	11.333	11.387	VV	218	3745	0.16%	0.008%
288	11.408	11.387	11.435	VV	283	4033	0.18%	0.008%
289	11.449	11.435	11.495	VV	307	5481	0.24%	0.011%
290	11.526	11.495	11.546	PV	318	4994	0.22%	0.010%
291	11.595	11.546	11.655	VV	192403	2250367	98.72%	4.563%
292	11.673	11.655	11.733	VV	1294	25928	1.14%	0.053%
293	11.749	11.733	11.766	VV	410	5527	0.24%	0.011%
294	11.789	11.766	11.813	VV	385	5778	0.25%	0.012%
295	11.864	11.813	11.934	PV	1162	32623	1.43%	0.066%
296	11.950	11.934	11.970	VV	387	5529	0.24%	0.011%
297	11.985	11.970	11.998	VV	560	6549	0.29%	0.013%
298	12.018	11.998	12.059	VV	1215	23758	1.04%	0.048%
299	12.078	12.059	12.094	VV	842	10186	0.45%	0.021%

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300	12.110	12.094	12.128	VV	321	4988	0.22%	0.010%
301	12.135	12.128	12.175	VV	282	3745	0.16%	0.008%
302	12.205	12.175	12.221	VV	241	3211	0.14%	0.007%
303	12.265	12.221	12.284	VV	686	14614	0.64%	0.030%
304	12.306	12.284	12.339	VV	1147	21250	0.93%	0.043%
305	12.365	12.339	12.405	VV	1096	25011	1.10%	0.051%
306	12.425	12.405	12.444	VV	648	10271	0.45%	0.021%
307	12.449	12.444	12.455	VV	293	1496	0.07%	0.003%
308	12.472	12.455	12.493	VV	633	9532	0.42%	0.019%
309	12.524	12.493	12.574	VV	51524	648197	28.43%	1.314%
310	12.592	12.574	12.608	VV	1822	28556	1.25%	0.058%
311	12.620	12.608	12.637	VV	1433	20680	0.91%	0.042%
312	12.648	12.637	12.670	VV	917	15798	0.69%	0.032%
313	12.696	12.670	12.720	VV	1359	28998	1.27%	0.059%
314	12.730	12.720	12.810	VV	778	24829	1.09%	0.050%
315	12.838	12.810	12.875	VV	1175	27555	1.21%	0.056%
316	12.910	12.875	12.954	VV	187994	2238999	98.22%	4.540%
317	12.985	12.954	13.039	VV	4159	77741	3.41%	0.158%
318	13.044	13.039	13.071	VV	278	4011	0.18%	0.008%
319	13.097	13.071	13.104	VV	283	4578	0.20%	0.009%
320	13.120	13.104	13.132	VV	418	6395	0.28%	0.013%
321	13.160	13.132	13.223	VV	566	17117	0.75%	0.035%
322	13.231	13.223	13.254	VV	198	2457	0.11%	0.005%
323	13.277	13.254	13.290	VV	708	10115	0.44%	0.021%
324	13.316	13.290	13.386	VV	1933	42158	1.85%	0.085%
325	13.404	13.386	13.432	VV	262	5426	0.24%	0.011%
326	13.439	13.432	13.455	VV	208	2461	0.11%	0.005%
327	13.470	13.455	13.493	VV	375	5741	0.25%	0.012%
328	13.524	13.493	13.545	VV	757	13264	0.58%	0.027%
329	13.548	13.545	13.555	VV	417	2086	0.09%	0.004%
330	13.559	13.555	13.571	VV	368	2876	0.13%	0.006%
331	13.579	13.571	13.624	VV	373	7633	0.33%	0.015%
332	13.650	13.624	13.671	VV	347	5951	0.26%	0.012%
333	13.678	13.671	13.685	VV	101	600	0.03%	0.001%
334	13.730	13.685	13.737	VV	423	7931	0.35%	0.016%
335	13.757	13.737	13.789	VV	1265	19579	0.86%	0.040%
336	13.802	13.789	13.845	VV	299	5014	0.22%	0.010%
337	13.868	13.845	13.880	VV	218	2880	0.13%	0.006%
338	13.887	13.880	13.910	VV	253	2804	0.12%	0.006%
339	13.954	13.910	14.000	VV	724	15412	0.68%	0.031%
340	14.004	14.000	14.008	VV	121	415	0.02%	0.001%
341	14.018	14.008	14.024	VV	147	1163	0.05%	0.002%
342	14.029	14.024	14.039	VV	220	1623	0.07%	0.003%
343	14.065	14.039	14.081	VV	1933	26120	1.15%	0.053%
344	14.113	14.081	14.175	VV	177104	2211501	97.01%	4.485%
345	14.182	14.175	14.194	VV	236	2581	0.11%	0.005%
346	14.221	14.194	14.256	VV	439	8993	0.39%	0.018%
347	14.261	14.256	14.300	VV	85	1087	0.05%	0.002%
348	14.304	14.300	14.307	PV	73	242	0.01%	0.000%
349	14.330	14.307	14.336	VV	191	2377	0.10%	0.005%
350	14.339	14.336	14.362	VV	170	1585	0.07%	0.003%
351	14.381	14.362	14.418	VV	176	3187	0.14%	0.006%

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352	14.424	14.418	14.445	VV	156	1437	0.06%	0.003%
353	14.451	14.445	14.455	VV	123	510	0.02%	0.001%
354	14.477	14.455	14.484	VV	406	4728	0.21%	0.010%
355	14.508	14.484	14.560	VV	2523	47171	2.07%	0.096%
356	14.605	14.560	14.652	VV	394	13413	0.59%	0.027%
357	14.676	14.652	14.697	VV	966	15233	0.67%	0.031%
358	14.710	14.697	14.724	VV	542	7731	0.34%	0.016%
359	14.740	14.724	14.763	VV	894	14268	0.63%	0.029%
360	14.777	14.763	14.800	VV	716	10945	0.48%	0.022%
361	14.805	14.800	14.830	VV	302	4126	0.18%	0.008%
362	14.838	14.830	14.857	VV	265	2461	0.11%	0.005%
363	14.874	14.857	14.880	VV	259	2316	0.10%	0.005%
364	14.901	14.880	14.929	VV	716	12677	0.56%	0.026%
365	14.943	14.929	14.949	VV	288	2721	0.12%	0.006%
366	14.955	14.949	14.963	VV	288	1806	0.08%	0.004%
367	14.965	14.963	14.969	VV	221	735	0.03%	0.001%
368	15.014	14.969	15.051	VV	105838	1358750	59.60%	2.755%
369	15.065	15.051	15.095	VV	1316	24654	1.08%	0.050%
370	15.100	15.095	15.130	VV	496	6591	0.29%	0.013%
371	15.133	15.130	15.141	VV	228	1092	0.05%	0.002%
372	15.219	15.141	15.254	VV	173488	2279644	100.00%	4.623%
373	15.265	15.254	15.300	VV	2618	41873	1.84%	0.085%
374	15.303	15.300	15.325	VV	430	4593	0.20%	0.009%
375	15.332	15.325	15.350	VV	216	2867	0.13%	0.006%
376	15.354	15.350	15.359	VV	224	933	0.04%	0.002%
377	15.376	15.359	15.396	VV	349	4773	0.21%	0.010%
378	15.413	15.396	15.452	VV	622	8406	0.37%	0.017%
379	15.462	15.452	15.485	VV	161	1729	0.08%	0.004%
380	15.489	15.485	15.499	VV	169	691	0.03%	0.001%
381	15.527	15.499	15.540	PV	214	2872	0.13%	0.006%
382	15.602	15.540	15.670	VV	47826	802078	35.18%	1.626%
383	15.695	15.670	15.714	VV	1235	24106	1.06%	0.049%
384	15.744	15.714	15.780	VV	2044	46939	2.06%	0.095%
385	15.809	15.780	15.845	VV	4073	62840	2.76%	0.127%
386	15.861	15.845	15.869	VV	631	5040	0.22%	0.010%
387	15.872	15.869	15.904	VV	454	5174	0.23%	0.010%
388	15.908	15.904	15.919	VV	130	792	0.03%	0.002%
389	15.923	15.919	15.929	VV	127	471	0.02%	0.001%
390	15.934	15.929	15.944	VV	96	355	0.02%	0.001%
391	15.957	15.944	15.962	PV	76	669	0.03%	0.001%
392	16.034	15.962	16.055	VV	343	10850	0.48%	0.022%
393	16.062	16.055	16.075	VV	168	1551	0.07%	0.003%
394	16.084	16.075	16.090	VV	137	972	0.04%	0.002%
395	16.121	16.090	16.174	VV	1795	34189	1.50%	0.069%
396	16.244	16.174	16.286	VV	159657	2166704	95.05%	4.394%
397	16.306	16.286	16.350	VV	1494	23721	1.04%	0.048%
398	16.355	16.350	16.363	VV	391	1049	0.05%	0.002%
399	16.372	16.363	16.397	VV	220	1797	0.08%	0.004%
400	16.444	16.397	16.475	PV	304	7093	0.31%	0.014%
401	16.497	16.475	16.515	VV	153	1947	0.09%	0.004%
402	16.540	16.515	16.553	VV	574	7820	0.34%	0.016%
403	16.556	16.553	16.564	VV	400	2239	0.10%	0.005%
404	16.567	16.564	16.589	VV	365	3122	0.14%	0.006%

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405	16.620	16.589	16.659	VV	7854	136448	5.99%	0.277%
406	16.690	16.659	16.707	VV	1651	33910	1.49%	0.069%
407	16.727	16.707	16.764	VV	2966	50631	2.22%	0.103%
408	16.765	16.764	16.777	VV	514	3596	0.16%	0.007%
409	16.801	16.777	16.838	VV	1707	27406	1.20%	0.056%
410	16.864	16.838	16.879	PV	424	5818	0.26%	0.012%
411	16.881	16.879	16.896	VV	563	2498	0.11%	0.005%
412	17.005	16.896	17.027	VV	843	21605	0.95%	0.044%
413	17.107	17.027	17.140	VV	1226	51900	2.28%	0.105%
414	17.196	17.140	17.230	VV	158463	2133310	93.58%	4.326%
415	17.243	17.230	17.257	VV	1851	24675	1.08%	0.050%
416	17.272	17.257	17.304	VV	2272	33674	1.48%	0.068%
417	17.350	17.304	17.355	VV	181	5950	0.26%	0.012%
418	17.364	17.355	17.373	VV	183	1117	0.05%	0.002%
419	17.401	17.373	17.407	PV	156	2108	0.09%	0.004%
420	17.433	17.407	17.449	VV	337	5512	0.24%	0.011%
421	17.453	17.449	17.458	VV	186	793	0.03%	0.002%
422	17.464	17.458	17.496	VV	188	3751	0.16%	0.008%
423	17.567	17.496	17.615	VV	6256	123421	5.41%	0.250%
424	17.646	17.615	17.687	VV	6047	96600	4.24%	0.196%
425	17.731	17.687	17.762	VV	1226	25791	1.13%	0.052%
426	17.797	17.762	17.834	VV	333	9140	0.40%	0.019%
427	17.880	17.834	17.895	VV	116	3109	0.14%	0.006%
428	18.041	17.895	18.051	PV	1777	50092	2.20%	0.102%
429	18.086	18.051	18.141	VV	147346	2045245	89.72%	4.147%
430	18.175	18.141	18.237	VV	2776	46419	2.04%	0.094%
431	18.312	18.237	18.342	PV	2167	36930	1.62%	0.075%
432	18.362	18.342	18.380	VV	378	6630	0.29%	0.013%
433	18.408	18.380	18.417	VV	1818	25056	1.10%	0.051%
434	18.448	18.417	18.488	VV	28202	509625	22.36%	1.033%
435	18.511	18.488	18.547	VV	7549	134150	5.88%	0.272%
436	18.578	18.547	18.594	VV	1049	24733	1.08%	0.050%
437	18.606	18.594	18.634	VV	1143	20250	0.89%	0.041%
438	18.641	18.634	18.685	VV	705	14582	0.64%	0.030%
439	18.719	18.685	18.730	VV	586	11409	0.50%	0.023%
440	18.776	18.730	18.792	VV	647	20006	0.88%	0.041%
441	18.807	18.792	18.840	VV	291	6308	0.28%	0.013%
442	18.874	18.840	18.882	PV	1381	19355	0.85%	0.039%
443	18.921	18.882	18.978	VV	124599	1737340	76.21%	3.523%
444	19.030	18.978	19.059	VV	2715	72209	3.17%	0.146%
445	19.079	19.059	19.100	VV	1404	26785	1.17%	0.054%
446	19.118	19.100	19.141	VV	779	12418	0.54%	0.025%
447	19.195	19.141	19.221	PV	5753	86199	3.78%	0.175%
448	19.277	19.221	19.300	VV	21494	397840	17.45%	0.807%
449	19.318	19.300	19.372	VV	15810	344765	15.12%	0.699%
450	19.411	19.372	19.432	VV	2708	81642	3.58%	0.166%
451	19.452	19.432	19.477	VV	2545	58669	2.57%	0.119%
452	19.515	19.477	19.530	VV	2624	62992	2.76%	0.128%
453	19.563	19.530	19.587	VV	2460	72805	3.19%	0.148%
454	19.612	19.587	19.634	VV	2827	64054	2.81%	0.130%
455	19.706	19.634	19.747	VV	73662	1201030	52.68%	2.435%
456	19.776	19.747	19.790	VV	5306	118734	5.21%	0.241%

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457	19.812	19.790	19.840	VV	5633	144408	6.33%	0.293%
458	19.880	19.840	19.909	VV	6487	208708	9.16%	0.423%
459	19.987	19.909	20.018	VV	5325	305590	13.41%	0.620%
460	20.059	20.018	20.097	VV	9700	342991	15.05%	0.696%
461	20.110	20.097	20.149	VV	6538	180731	7.93%	0.366%
462	20.317	20.149	20.360	VV	8693	855077	37.51%	1.734%
463	20.447	20.360	20.485	VV	53593	1270191	55.72%	2.576%
464	20.606	20.485	20.630	VV	11667	854860	37.50%	1.734%
465	20.802	20.630	20.878	VV	13610	1804349	79.15%	3.659%
466	20.913	20.878	20.939	VV	11753	418847	18.37%	0.849%
467	21.118	20.939	21.144	VV	11054	1362281	59.76%	2.762%
468	21.191	21.144	21.343	VV	39841	1604326	70.38%	3.253%
469	21.353	21.343	21.362	VV	7333	83099	3.65%	0.169%
470	21.429	21.362	21.459	VV	7051	409708	17.97%	0.831%
471	21.494	21.459	21.540	VV	6737	318312	13.96%	0.645%
472	21.560	21.540	21.570	VV	5973	108306	4.75%	0.220%
473	21.621	21.570	21.712	VV	6159	468752	20.56%	0.951%
474	21.742	21.712	21.841	VV	4614	306165	13.43%	0.621%
475	21.872	21.841	21.914	VV	3291	130071	5.71%	0.264%
476	21.926	21.914	21.982	VV	2526	90455	3.97%	0.183%
477	22.009	21.982	22.039	VV	1745	54605	2.40%	0.111%
478	22.116	22.039	22.200	VBA	21609	612202	26.86%	1.241%

Sum of corrected areas: 49313685

FG032725.M Wed Apr 09 01:00:30 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015660.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:29
Operator : YP\AJ
Sample : Q1744-03MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File: autoint1.e
Quant Time: Apr 09 00:30:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.015	1290276	11.262 ug/ml
	Target Compounds			
1)	N-OCTANE	1.985	1472007	12.665 ug/ml
2)	N-DECANE	4.514	1725884	14.609 ug/ml
3)	N-DODECANE	6.695	1839542	15.149 ug/ml
4)	N-TETRADECANE	8.531	1899758	15.065 ug/ml
5)	N-HEXADECANE	10.146	2065474	16.042 ug/ml
6)	N-OCTADECANE	11.595	2186088	16.594 ug/ml
7)	N-EICOSANE	12.910	2171823	16.220 ug/ml
8)	N-DOCOSANE	14.112	2148215	16.532 ug/ml
10)	N-TETRACOSANE	15.219	2203087	17.009 ug/ml
11)	N-HEXACOSANE	16.243	2092627	16.442 ug/ml
12)	N-OCTACOSANE	17.197	2043462	16.347 ug/mlm
13)	N-TRIACONTANE	18.088	2013757	16.088 ug/ml
14)	N-DOTRIACONTANE	18.922	1746857	14.719 ug/ml
15)	N-TETRATRIACONTANE	19.705	1055803	10.115 ug/ml
16)	N-HEXATRIACONTANE	20.448	683943	7.804 ug/ml
17)	N-OCTATRIACONTANE	21.190	548815	7.354 ug/ml
18)	N-TETRACONTANE	22.115	519899	7.849 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015660.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:29
Operator : YP\AJ
Sample : Q1744-03MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

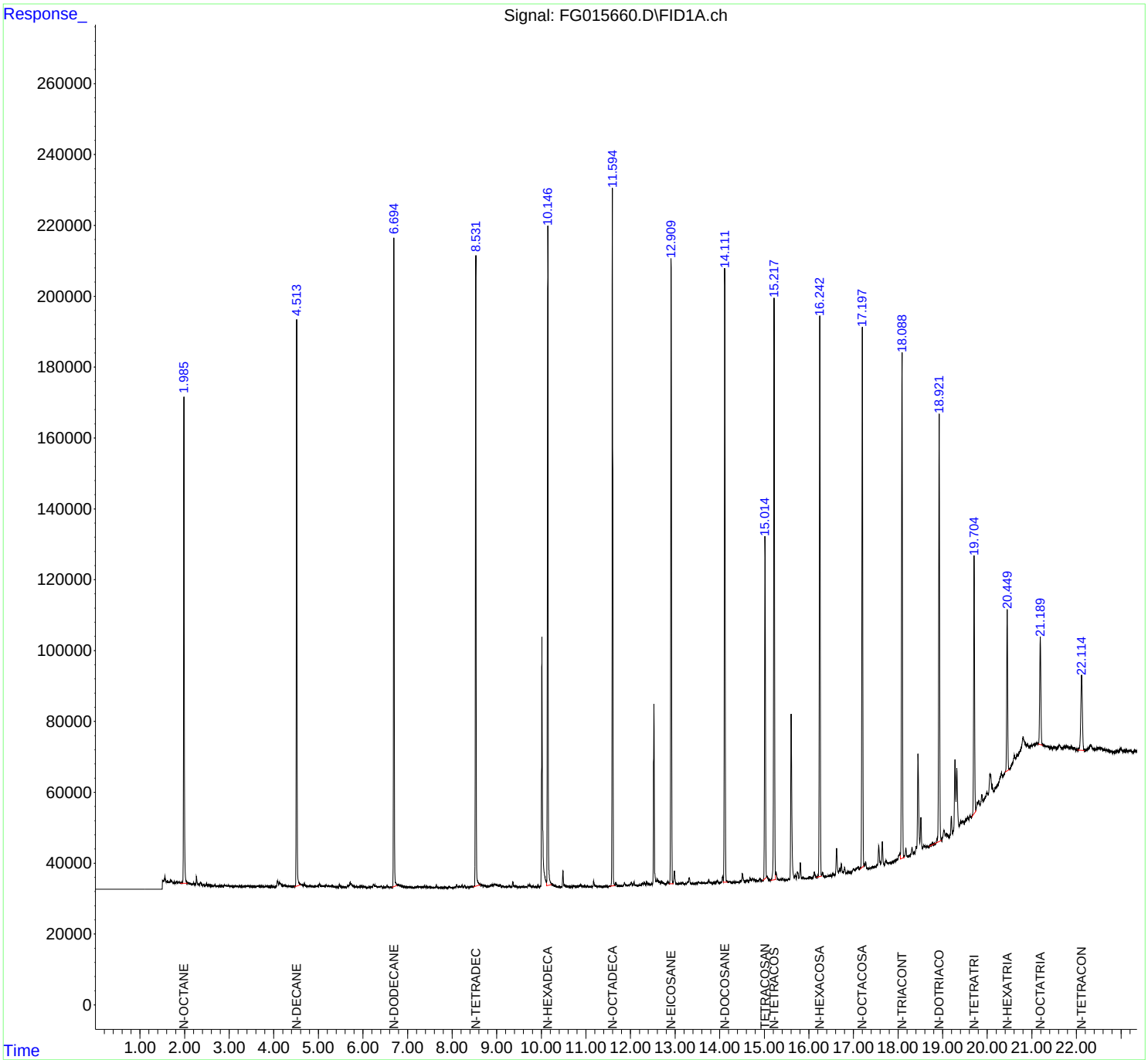
Integration File: autoint1.e
Quant Time: Apr 09 00:30:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025



Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04082
Data File : FG015660.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:29
Sample : Q1744-03MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.823	1.800	1.857	BV	495	4906	0.22%	0.010%
2	1.877	1.857	1.903	PV	462	5614	0.25%	0.012%
3	1.925	1.903	1.931	PV	330	2753	0.12%	0.006%
4	1.936	1.931	1.954	VV	337	2435	0.11%	0.005%
5	1.985	1.954	2.072	VV	137559	1479897	66.64%	3.056%
6	2.075	2.072	2.110	VV	347	3984	0.18%	0.008%
7	2.113	2.110	2.151	VV	164	1983	0.09%	0.004%
8	2.157	2.151	2.163	VV	87	319	0.01%	0.001%
9	2.167	2.163	2.184	VV	127	802	0.04%	0.002%
10	2.200	2.184	2.251	PV	474	7488	0.34%	0.015%
11	2.266	2.251	2.302	VV	2375	27653	1.25%	0.057%
12	2.308	2.302	2.336	VV	209	2513	0.11%	0.005%
13	2.357	2.336	2.410	VV	941	15658	0.71%	0.032%
14	2.423	2.410	2.470	VV	230	3672	0.17%	0.008%
15	2.489	2.470	2.547	PV	671	10743	0.48%	0.022%
16	2.556	2.547	2.599	VV	251	3504	0.16%	0.007%
17	2.613	2.599	2.647	VV	160	1932	0.09%	0.004%
18	2.673	2.647	2.701	PV	294	5328	0.24%	0.011%
19	2.706	2.701	2.710	VV	81	431	0.02%	0.001%
20	2.715	2.710	2.732	VV	136	886	0.04%	0.002%
21	2.761	2.732	2.769	VV	187	2132	0.10%	0.004%
22	2.783	2.769	2.791	PV	297	2152	0.10%	0.004%
23	2.799	2.791	2.819	VV	167	1823	0.08%	0.004%
24	2.825	2.819	2.831	PV	147	628	0.03%	0.001%
25	2.847	2.831	2.857	VV	215	1855	0.08%	0.004%
26	2.861	2.857	2.870	VV	146	913	0.04%	0.002%
27	2.890	2.870	2.897	VV	326	3506	0.16%	0.007%
28	2.900	2.897	2.908	VV	278	1555	0.07%	0.003%
29	2.914	2.908	2.933	VV	261	3453	0.16%	0.007%
30	2.939	2.933	2.953	VV	287	2659	0.12%	0.005%
31	2.971	2.953	3.002	VV	375	7081	0.32%	0.015%
32	3.006	3.002	3.016	VV	253	1141	0.05%	0.002%
33	3.022	3.016	3.029	VV	169	866	0.04%	0.002%
34	3.066	3.029	3.076	VV	249	3986	0.18%	0.008%
35	3.082	3.076	3.091	PV	128	866	0.04%	0.002%
36	3.095	3.091	3.113	VV	192	1690	0.08%	0.003%

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

					rteres			
37	3.126	3.113	3.164	VV	242	4856	0.22%	0.010%
38	3.172	3.164	3.230	VV	193	4442		
39	3.251	3.230	3.294	VV	204	4154		
40	3.303	3.294	3.315	VV	98	822		
41	3.329	3.315	3.336	VV	143	936		
42	3.355	3.336	3.365	VV	178	1958		
43	3.384	3.365	3.401	VV	216	3291	0.15%	0.007%
44	3.408	3.401	3.441	VV	222	5230	0.24%	0.011%
45	3.448	3.441	3.472	VV	186	3087	0.14%	0.006%
46	3.476	3.472	3.487	VV	181	1305	0.06%	0.003%
47	3.494	3.487	3.514	VV	186	1974	0.09%	0.004%
48	3.524	3.514	3.537	VV	158	1277	0.06%	0.003%
49	3.544	3.537	3.557	VV	139	1052	0.05%	0.002%
50	3.566	3.557	3.576	VV	147	1030	0.05%	0.002%
51	3.589	3.576	3.599	VV	134	1211	0.05%	0.003%
52	3.607	3.599	3.613	VV	150	979	0.04%	0.002%
53	3.647	3.613	3.691	VV	291	8788	0.40%	0.018%
54	3.707	3.691	3.732	VV	274	4411	0.20%	0.009%
55	3.742	3.732	3.797	VV	176	4805	0.22%	0.010%
56	3.813	3.797	3.865	VV	264	6394	0.29%	0.013%
57	3.874	3.865	3.920	VV	185	2877	0.13%	0.006%
58	3.942	3.920	3.957	VV	191	2531	0.11%	0.005%
59	3.967	3.957	4.042	VV	209	4762	0.21%	0.010%
60	4.081	4.042	4.112	VV	1820	37392	1.68%	0.077%
61	4.131	4.112	4.211	VV	1267	48176	2.17%	0.099%
62	4.237	4.211	4.274	VV	629	17124	0.77%	0.035%
63	4.287	4.274	4.320	VV	488	9881	0.44%	0.020%
64	4.341	4.320	4.414	VV	397	14452	0.65%	0.030%
65	4.418	4.414	4.427	VV	277	1821	0.08%	0.004%
66	4.433	4.427	4.450	VV	241	2863	0.13%	0.006%
67	4.458	4.450	4.476	VV	248	2968	0.13%	0.006%
68	4.514	4.476	4.624	VV	160361	1768085	79.61%	3.651%
69	4.633	4.624	4.656	VV	727	11110	0.50%	0.023%
70	4.685	4.656	4.756	VV	1254	33953	1.53%	0.070%
71	4.764	4.756	4.785	VV	311	5024	0.23%	0.010%
72	4.797	4.785	4.814	VV	398	5443	0.25%	0.011%
73	4.825	4.814	4.894	VV	416	12430	0.56%	0.026%
74	4.911	4.894	4.924	VV	297	4576	0.21%	0.009%
75	4.940	4.924	4.960	VV	392	6222	0.28%	0.013%
76	4.991	4.960	5.002	VV	411	7896	0.36%	0.016%
77	5.026	5.002	5.062	VV	909	20184	0.91%	0.042%
78	5.071	5.062	5.082	VV	432	4446	0.20%	0.009%
79	5.094	5.082	5.134	VV	424	11331	0.51%	0.023%
80	5.175	5.134	5.207	VV	586	17452	0.79%	0.036%
81	5.224	5.207	5.253	VV	474	10237	0.46%	0.021%
82	5.270	5.253	5.287	VV	371	7211	0.32%	0.015%
83	5.307	5.287	5.412	VV	580	19087	0.86%	0.039%
84	5.424	5.412	5.447	VV	221	2863	0.13%	0.006%
85	5.471	5.447	5.509	VV	603	13792	0.62%	0.028%
86	5.514	5.509	5.584	VV	342	7030	0.32%	0.015%
87	5.594	5.584	5.616	PV	95	1093	0.05%	0.002%
88	5.656	5.616	5.673	VV	651	9315	0.42%	0.019%
89	5.711	5.673	5.832	VV	1477	62431	2.81%	0.129%

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

					rteres			
90	5.853	5.832	5.879	VV	413	7348	0.33%	0.015%
91	5.894	5.879	5.904	VV	222	2948		
92	5.926	5.904	5.939	VV	429	6061		
93	5.949	5.939	5.967	VV	477	5694		
94	5.979	5.967	5.997	VV	338	4810		
95	6.007	5.997	6.022	VV	263	3596		
96	6.034	6.022	6.089	VV	324	5478	0.25%	0.011%
97	6.135	6.089	6.159	PV	279	5487	0.25%	0.011%
98	6.176	6.159	6.192	VV	257	4051	0.18%	0.008%
99	6.236	6.192	6.261	VV	987	22582	1.02%	0.047%
100	6.268	6.261	6.326	VV	779	16716	0.75%	0.035%
101	6.336	6.326	6.349	VV	306	3600	0.16%	0.007%
102	6.359	6.349	6.368	VV	307	2727	0.12%	0.006%
103	6.406	6.368	6.456	VV	564	15418	0.69%	0.032%
104	6.462	6.456	6.475	VV	145	1670	0.08%	0.003%
105	6.506	6.475	6.519	VV	236	4821	0.22%	0.010%
106	6.537	6.519	6.611	VV	699	17416	0.78%	0.036%
107	6.619	6.611	6.664	VV	272	5111	0.23%	0.011%
108	6.695	6.664	6.781	VV	182138	1873758	84.37%	3.870%
109	6.794	6.781	6.832	VV	885	23548	1.06%	0.049%
110	6.846	6.832	6.936	VV	688	27126	1.22%	0.056%
111	6.943	6.936	6.959	VV	338	3746	0.17%	0.008%
112	6.970	6.959	7.022	VV	329	8655	0.39%	0.018%
113	7.030	7.022	7.039	VV	234	2035	0.09%	0.004%
114	7.053	7.039	7.087	VV	216	4884	0.22%	0.010%
115	7.097	7.087	7.126	VV	257	3225	0.15%	0.007%
116	7.156	7.126	7.190	VV	230	5160	0.23%	0.011%
117	7.216	7.190	7.229	VV	426	7275	0.33%	0.015%
118	7.237	7.229	7.259	VV	419	6042	0.27%	0.012%
119	7.277	7.259	7.303	VV	342	6623	0.30%	0.014%
120	7.333	7.303	7.359	VV	324	8516	0.38%	0.018%
121	7.377	7.359	7.402	VV	555	9947	0.45%	0.021%
122	7.417	7.402	7.462	VV	376	8689	0.39%	0.018%
123	7.476	7.462	7.509	VV	356	5538	0.25%	0.011%
124	7.526	7.509	7.572	VV	255	5777	0.26%	0.012%
125	7.589	7.572	7.612	VV	199	2770	0.12%	0.006%
126	7.647	7.612	7.699	VV	980	13994	0.63%	0.029%
127	7.714	7.699	7.724	PV	128	1269	0.06%	0.003%
128	7.732	7.724	7.751	VV	120	1119	0.05%	0.002%
129	7.774	7.751	7.805	VV	138	2969	0.13%	0.006%
130	7.827	7.805	7.841	VV	205	2374	0.11%	0.005%
131	7.849	7.841	7.867	VV	123	1075	0.05%	0.002%
132	7.874	7.867	7.884	PV	121	539	0.02%	0.001%
133	7.930	7.884	7.958	VV	546	8832	0.40%	0.018%
134	7.989	7.958	8.012	VV	206	3510	0.16%	0.007%
135	8.019	8.012	8.051	VV	121	1912	0.09%	0.004%
136	8.103	8.051	8.142	VV	978	22574	1.02%	0.047%
137	8.178	8.142	8.201	VV	436	11510	0.52%	0.024%
138	8.222	8.201	8.247	VV	857	12283	0.55%	0.025%
139	8.278	8.247	8.332	VV	777	15045	0.68%	0.031%
140	8.352	8.332	8.373	VV	315	4924	0.22%	0.010%
141	8.437	8.373	8.459	VV	438	12825	0.58%	0.026%

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

rteres

142	8.466	8.459	8.474	VV	301	2566	0.12%	0.005%
143	8.531	8.474	8.666	VV	178047	1973063	88	
144	8.674	8.666	8.702	VV	697	13255		
145	8.716	8.702	8.806	VV	627	28434		
146	8.833	8.806	8.844	VV	473	9603		
147	8.894	8.844	8.921	VV	946	30920		
148	8.951	8.921	9.001	VV	1056	40028	1.80%	0.083%
149	9.009	9.001	9.053	VV	764	20669	0.93%	0.043%
150	9.072	9.053	9.109	VV	905	18671	0.84%	0.039%
151	9.125	9.109	9.135	VV	371	5260	0.24%	0.011%
152	9.146	9.135	9.199	VV	443	11573	0.52%	0.024%
153	9.223	9.199	9.249	VV	308	8019	0.36%	0.017%
154	9.280	9.249	9.319	VV	480	13409	0.60%	0.028%
155	9.362	9.319	9.387	VV	1636	25593	1.15%	0.053%
156	9.395	9.387	9.402	VV	444	3289	0.15%	0.007%
157	9.413	9.402	9.467	VV	408	10200	0.46%	0.021%
158	9.508	9.467	9.527	VV	206	4596	0.21%	0.009%
159	9.550	9.527	9.556	VV	318	3652	0.16%	0.008%
160	9.587	9.556	9.624	VV	300	9692	0.44%	0.020%
161	9.643	9.624	9.679	VV	282	5663	0.25%	0.012%
162	9.705	9.679	9.724	VV	738	12954	0.58%	0.027%
163	9.742	9.724	9.771	VV	693	14432	0.65%	0.030%
164	9.781	9.771	9.795	VV	355	4156	0.19%	0.009%
165	9.826	9.795	9.849	VV	346	7779	0.35%	0.016%
166	9.872	9.849	9.897	VV	227	4562	0.21%	0.009%
167	9.924	9.897	9.951	VV	865	10169	0.46%	0.021%
168	10.014	9.951	10.116	VV	70583	1081966	48.72%	2.234%
169	10.146	10.116	10.244	VV	185170	2117104	95.33%	4.372%
170	10.251	10.244	10.286	VV	910	17109	0.77%	0.035%
171	10.299	10.286	10.416	VV	563	20131	0.91%	0.042%
172	10.419	10.416	10.448	VV	149	1561	0.07%	0.003%
173	10.487	10.448	10.524	VV	4552	63042	2.84%	0.130%
174	10.532	10.524	10.559	VV	519	7743	0.35%	0.016%
175	10.586	10.559	10.613	VV	369	7813	0.35%	0.016%
176	10.622	10.613	10.647	VV	242	3225	0.15%	0.007%
177	10.664	10.647	10.690	VV	230	3401	0.15%	0.007%
178	10.718	10.690	10.754	PV	439	9731	0.44%	0.020%
179	10.766	10.754	10.799	VV	239	6049	0.27%	0.012%
180	10.816	10.799	10.831	VV	304	4180	0.19%	0.009%
181	10.846	10.831	10.872	VV	417	9108	0.41%	0.019%
182	10.887	10.872	10.909	VV	831	11050	0.50%	0.023%
183	10.923	10.909	10.938	VV	321	4132	0.19%	0.009%
184	10.961	10.938	10.988	VV	430	8146	0.37%	0.017%
185	10.995	10.988	11.017	VV	251	3190	0.14%	0.007%
186	11.032	11.017	11.092	VV	362	6759	0.30%	0.014%
187	11.110	11.092	11.141	VV	237	4027	0.18%	0.008%
188	11.174	11.141	11.248	VV	1744	36744	1.65%	0.076%
189	11.272	11.248	11.292	VV	242	4638	0.21%	0.010%
190	11.315	11.292	11.334	VV	237	4491	0.20%	0.009%
191	11.343	11.334	11.386	VV	208	3545	0.16%	0.007%
192	11.408	11.386	11.430	PV	264	4596	0.21%	0.009%
193	11.460	11.430	11.499	VV	303	6379	0.29%	0.013%
194	11.530	11.499	11.549	VV	284	5007	0.23%	0.010%

Instrument :
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Manual IntegrationsAPPROVED

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rteres

195	11.595	11.549	11.653	VV	196918	2203410	99.21%	4.550%
196	11.672	11.653	11.732	VV	1237	24980	1	
197	11.751	11.732	11.774	VV	287	5256	0	
198	11.787	11.774	11.808	VV	320	4020	0	
199	11.863	11.808	11.926	PV	1037	30785	1	
200	11.948	11.926	11.964	VV	363	6391	0	
201	12.017	11.964	12.055	VV	1165	31243	1.41%	0.065%
202	12.077	12.055	12.097	VV	1236	16655	0.75%	0.034%
203	12.106	12.097	12.166	VV	344	8692	0.39%	0.018%
204	12.205	12.166	12.222	VV	225	3879	0.17%	0.008%
205	12.264	12.222	12.284	VV	667	15072	0.68%	0.031%
206	12.306	12.284	12.339	VV	997	20324	0.92%	0.042%
207	12.365	12.339	12.404	VV	1097	23601	1.06%	0.049%
208	12.423	12.404	12.449	VV	607	10259	0.46%	0.021%
209	12.474	12.449	12.494	VV	576	9895	0.45%	0.020%
210	12.524	12.494	12.572	VV	51365	623558	28.08%	1.288%
211	12.591	12.572	12.609	VV	1849	30377	1.37%	0.063%
212	12.619	12.609	12.671	VV	1452	35069	1.58%	0.072%
213	12.697	12.671	12.719	VV	1240	25699	1.16%	0.053%
214	12.732	12.719	12.790	VV	773	20359	0.92%	0.042%
215	12.835	12.790	12.873	VV	1107	28920	1.30%	0.060%
216	12.910	12.873	12.957	VV	176323	2188855	98.56%	4.520%
217	12.983	12.957	13.074	VV	3898	80224	3.61%	0.166%
218	13.161	13.074	13.205	VV	525	25443	1.15%	0.053%
219	13.234	13.205	13.245	VV	226	3536	0.16%	0.007%
220	13.276	13.245	13.289	VV	692	10252	0.46%	0.021%
221	13.316	13.289	13.387	VV	1802	39418	1.77%	0.081%
222	13.398	13.387	13.414	VV	186	2135	0.10%	0.004%
223	13.420	13.414	13.449	VV	162	2961	0.13%	0.006%
224	13.467	13.449	13.487	VV	324	4664	0.21%	0.010%
225	13.524	13.487	13.564	VV	651	16910	0.76%	0.035%
226	13.594	13.564	13.619	VV	366	8944	0.40%	0.018%
227	13.650	13.619	13.670	VV	365	6829	0.31%	0.014%
228	13.699	13.670	13.721	VV	325	5977	0.27%	0.012%
229	13.755	13.721	13.788	VV	1214	22284	1.00%	0.046%
230	13.804	13.788	13.827	VV	289	5030	0.23%	0.010%
231	13.878	13.827	13.891	VV	302	5421	0.24%	0.011%
232	13.951	13.891	14.006	VV	707	21857	0.98%	0.045%
233	14.064	14.006	14.079	VV	2017	30956	1.39%	0.064%
234	14.112	14.079	14.203	VV	173343	2167266	97.59%	4.476%
235	14.222	14.203	14.287	VV	503	10676	0.48%	0.022%
236	14.327	14.287	14.352	PV	224	5098	0.23%	0.011%
237	14.397	14.352	14.430	VV	174	5349	0.24%	0.011%
238	14.473	14.430	14.482	VV	414	5856	0.26%	0.012%
239	14.509	14.482	14.572	VV	2416	49063	2.21%	0.101%
240	14.611	14.572	14.651	VV	403	12804	0.58%	0.026%
241	14.677	14.651	14.696	VV	933	15275	0.69%	0.032%
242	14.707	14.696	14.716	VV	540	6302	0.28%	0.013%
243	14.738	14.716	14.761	VV	1028	18162	0.82%	0.038%
244	14.777	14.761	14.829	VV	665	16000	0.72%	0.033%
245	14.838	14.829	14.859	VV	250	3626	0.16%	0.007%
246	14.902	14.859	14.943	VV	685	17938	0.81%	0.037%

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rteres

247	14.956	14.943	14.976	VV	250	4163	0.19%	0.009%
248	15.015	14.976	15.051	VV	96984	1322033	59	
249	15.064	15.051	15.094	VV	1384	24820	1	
250	15.102	15.094	15.142	VV	462	8455	0	
251	15.219	15.142	15.252	VV	163250	2220892	100	
252	15.264	15.252	15.344	VV	2572	48800	2	
253	15.372	15.344	15.392	VV	380	6396	0.29%	0.013%
254	15.412	15.392	15.456	VV	594	8044	0.36%	0.017%
255	15.488	15.456	15.499	PV	114	1610	0.07%	0.003%
256	15.541	15.499	15.567	VV	418	4408	0.20%	0.009%
257	15.601	15.567	15.676	VV	46741	781025	35.17%	1.613%
258	15.696	15.676	15.719	VV	1294	22184	1.00%	0.046%
259	15.743	15.719	15.778	VV	2023	43798	1.97%	0.090%
260	15.808	15.778	15.843	VV	4683	68286	3.07%	0.141%
261	15.869	15.843	15.946	VV	413	13721	0.62%	0.028%
262	15.994	15.946	16.008	PV	281	5397	0.24%	0.011%
263	16.033	16.008	16.072	VV	271	7734	0.35%	0.016%
264	16.122	16.072	16.175	VV	1785	35505	1.60%	0.073%
265	16.243	16.175	16.287	VV	155041	2113217	95.15%	4.364%
266	16.306	16.287	16.361	VV	1454	24078	1.08%	0.050%
267	16.373	16.361	16.400	VV	231	2807	0.13%	0.006%
268	16.437	16.400	16.467	PV	310	6728	0.30%	0.014%
269	16.539	16.467	16.587	VV	581	19034	0.86%	0.039%
270	16.620	16.587	16.664	VV	7679	138123	6.22%	0.285%
271	16.691	16.664	16.707	VV	1633	32731	1.47%	0.068%
272	16.728	16.707	16.773	VV	3069	56015	2.52%	0.116%
273	16.801	16.773	16.847	VV	1853	31789	1.43%	0.066%
274	16.866	16.847	16.911	VV	483	9636	0.43%	0.020%
275	16.926	16.911	16.939	VV	165	1594	0.07%	0.003%
276	16.995	16.939	17.033	PV	966	25792	1.16%	0.053%
277	17.104	17.033	17.142	VV	1148	48748	2.19%	0.101%
278	17.197	17.142	17.232	VV	153241	2083301	93.80%	4.302%
279	17.244	17.232	17.257	VV	1623	21371	0.96%	0.044%
280	17.274	17.257	17.305	VV	2105	31582	1.42%	0.065%
281	17.317	17.305	17.334	VV	296	3305	0.15%	0.007%
282	17.346	17.334	17.364	VV	150	1712	0.08%	0.004%
283	17.437	17.364	17.452	PV	301	4830	0.22%	0.010%
284	17.481	17.452	17.499	VV	197	3031	0.14%	0.006%
285	17.566	17.499	17.611	VV	5781	114604	5.16%	0.237%
286	17.646	17.611	17.691	VV	6628	107339	4.83%	0.222%
287	17.730	17.691	17.762	VV	1189	26010	1.17%	0.054%
288	17.770	17.762	17.787	VV	388	3992	0.18%	0.008%
289	17.801	17.787	17.837	VV	320	5660	0.25%	0.012%
290	18.042	17.837	18.052	PV	1873	60522	2.73%	0.125%
291	18.088	18.052	18.142	VV	143237	2022134	91.05%	4.176%
292	18.174	18.142	18.234	VV	2638	45107	2.03%	0.093%
293	18.312	18.234	18.337	PV	2058	32512	1.46%	0.067%
294	18.364	18.337	18.379	PV	313	4211	0.19%	0.009%
295	18.406	18.379	18.419	VV	1906	25651	1.15%	0.053%
296	18.447	18.419	18.486	VV	27489	486268	21.90%	1.004%
297	18.510	18.486	18.549	VV	9457	159206	7.17%	0.329%
298	18.575	18.549	18.592	VV	1112	21504	0.97%	0.044%
299	18.605	18.592	18.622	VV	837	13125	0.59%	0.027%

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rteres

300	18.640	18.622	18.672	VV	517	11631	0.52%	0.024%
301	18.721	18.672	18.737	VV	489	10491		
302	18.765	18.737	18.794	VV	651	16734		
303	18.811	18.794	18.836	VV	374	6096		
304	18.921	18.836	18.979	PV	120984	1758539	79	
305	19.028	18.979	19.057	VV	2632	68379	3	
306	19.077	19.057	19.100	VV	1313	25456	1.15%	0.053%
307	19.113	19.100	19.141	VV	706	9277	0.42%	0.019%
308	19.194	19.141	19.221	PV	5403	80773	3.64%	0.167%
309	19.276	19.221	19.298	VV	20695	368170	16.58%	0.760%
310	19.318	19.298	19.369	VV	17955	368907	16.61%	0.762%
311	19.410	19.369	19.430	VV	2296	68102	3.07%	0.141%
312	19.451	19.430	19.477	VV	2128	49604	2.23%	0.102%
313	19.515	19.477	19.533	VV	2068	52180	2.35%	0.108%
314	19.561	19.533	19.586	VV	2277	58543	2.64%	0.121%
315	19.613	19.586	19.636	VV	2403	54835	2.47%	0.113%
316	19.705	19.636	19.746	VV	73795	1181691	53.21%	2.440%
317	19.775	19.746	19.794	VV	4797	116994	5.27%	0.242%
318	19.811	19.794	19.840	VV	4859	115674	5.21%	0.239%
319	19.879	19.840	19.907	VV	5900	185457	8.35%	0.383%
320	19.990	19.907	20.023	VV	5840	331701	14.94%	0.685%
321	20.061	20.023	20.149	VV	10225	545270	24.55%	1.126%
322	20.319	20.149	20.342	VV	8596	750002	33.77%	1.549%
323	20.448	20.342	20.504	VV	53295	1460479	65.76%	3.016%
324	20.608	20.504	20.631	VV	11311	729138	32.83%	1.506%
325	20.678	20.631	20.692	VV	10829	391714	17.64%	0.809%
326	20.804	20.692	20.892	VV	14986	1493661	67.26%	3.085%
327	20.904	20.892	20.941	VV	11871	332328	14.96%	0.686%
328	21.002	20.941	21.012	VV	11047	465207	20.95%	0.961%
329	21.054	21.012	21.068	VV	10784	364994	16.43%	0.754%
330	21.123	21.068	21.146	VV	10512	485300	21.85%	1.002%
331	21.190	21.146	21.336	VV	39976	1581591	71.21%	3.266%
332	21.358	21.336	21.419	VV	7888	372746	16.78%	0.770%
333	21.429	21.419	21.469	VV	6897	200569	9.03%	0.414%
334	21.504	21.469	21.554	VV	6603	316447	14.25%	0.654%
335	21.622	21.554	21.687	VV	6028	434222	19.55%	0.897%
336	21.783	21.687	21.837	VV	4493	391148	17.61%	0.808%
337	21.873	21.837	21.921	VV	3407	159808	7.20%	0.330%
338	21.949	21.921	22.011	VV	2658	119507	5.38%	0.247%
339	22.116	22.011	22.191	VV	21726	602333	27.12%	1.244%
			Sum of corrected areas:			48423326		

FG032725.M Wed Apr 09 01:01:09 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q1744-03MSD		FG015660.D	FG040825	N-OCTACOSANE	mohammad	4/10/2025 5:30:17 AM	Peak Integrated by Software incorrectly

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG032725

Review By	yogesh	Review On	3/27/2025 11:57:36 AM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:35 AM		
SubDirectory	FG032725	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015562.D	27 Mar 2025 07:58	YP\AJ	Ok
2	I.BLK	FG015563.D	27 Mar 2025 08:27	YP\AJ	Ok
3	100 TRPH STD	FG015564.D	27 Mar 2025 08:56	YP\AJ	Ok
4	50 TRPH STD	FG015565.D	27 Mar 2025 09:26	YP\AJ	Ok
5	20 TRPH STD	FG015566.D	27 Mar 2025 09:55	YP\AJ	Ok
6	10 TRPH STD	FG015567.D	27 Mar 2025 10:24	YP\AJ	Ok
7	5 TRPH STD	FG015568.D	27 Mar 2025 10:54	YP\AJ	Ok
8	FG032725ICV	FG015569.D	27 Mar 2025 11:23	YP\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG040825

Review By	yogesh	Review On	4/8/2025 3:01:54 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:30:17 AM		
SubDirectory	FG040825	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015649.D	08 Apr 2025 09:32	YP\AJ	Ok
2	I.BLK	FG015650.D	08 Apr 2025 10:01	YP\AJ	Ok
3	50 PPM TRPH STD	FG015651.D	08 Apr 2025 11:13	YP\AJ	Ok
4	RT MARKER	FG015652.D	08 Apr 2025 11:44	YP\AJ	Ok
5	PB167510BL	FG015653.D	08 Apr 2025 12:50	YP\AJ	Ok
6	PB167510BS	FG015654.D	08 Apr 2025 13:20	YP\AJ	Ok
7	Q1744-01	FG015655.D	08 Apr 2025 14:02	YP\AJ	Ok
8	Q1744-03	FG015656.D	08 Apr 2025 14:31	YP\AJ	Ok
9	Q1746-01	FG015657.D	08 Apr 2025 15:01	YP\AJ	Ok
10	Q1746-03	FG015658.D	08 Apr 2025 15:30	YP\AJ	Ok
11	Q1744-03MS	FG015659.D	08 Apr 2025 15:59	YP\AJ	Ok
12	Q1744-03MSD	FG015660.D	08 Apr 2025 16:29	YP\AJ	Ok,M
13	I.BLK	FG015661.D	08 Apr 2025 16:58	YP\AJ	Ok
14	50 PPM TRPH STD	FG015662.D	08 Apr 2025 17:57	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG032725

Review By	yogesh	Review On	3/27/2025 11:57:36 AM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:35 AM		
SubDirectory	FG032725	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015562.D	27 Mar 2025 07:58		YP\AJ	Ok
2	I.BLK		FG015563.D	27 Mar 2025 08:27		YP\AJ	Ok
3	100 TRPH STD		FG015564.D	27 Mar 2025 08:56		YP\AJ	Ok
4	50 TRPH STD		FG015565.D	27 Mar 2025 09:26		YP\AJ	Ok
5	20 TRPH STD		FG015566.D	27 Mar 2025 09:55		YP\AJ	Ok
6	10 TRPH STD		FG015567.D	27 Mar 2025 10:24		YP\AJ	Ok
7	5 TRPH STD		FG015568.D	27 Mar 2025 10:54		YP\AJ	Ok
8	FG032725ICV		FG015569.D	27 Mar 2025 11:23		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG040825

Review By	yogesh	Review On	4/8/2025 3:01:54 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:30:17 AM		
SubDirectory	FG040825	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015649.D	08 Apr 2025 09:32		YP\AJ	Ok
2	I.BLK		FG015650.D	08 Apr 2025 10:01		YP\AJ	Ok
3	50 PPM TRPH STD		FG015651.D	08 Apr 2025 11:13		YP\AJ	Ok
4	RT MARKER		FG015652.D	08 Apr 2025 11:44		YP\AJ	Ok
5	PB167510BL		FG015653.D	08 Apr 2025 12:50		YP\AJ	Ok
6	PB167510BS		FG015654.D	08 Apr 2025 13:20		YP\AJ	Ok
7	Q1744-01		FG015655.D	08 Apr 2025 14:02		YP\AJ	Ok
8	Q1744-03		FG015656.D	08 Apr 2025 14:31		YP\AJ	Ok
9	Q1746-01		FG015657.D	08 Apr 2025 15:01		YP\AJ	Ok
10	Q1746-03		FG015658.D	08 Apr 2025 15:30		YP\AJ	Ok
11	Q1744-03MS		FG015659.D	08 Apr 2025 15:59		YP\AJ	Ok
12	Q1744-03MSD		FG015660.D	08 Apr 2025 16:29		YP\AJ	Ok,M
13	I.BLK		FG015661.D	08 Apr 2025 16:58		YP\AJ	Ok
14	50 PPM TRPH STD		FG015662.D	08 Apr 2025 17:57		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167510

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 04/08/2025

Extraction Start Time : 08:55

Extraction End Date : 04/08/2025

Extraction End Time : 11:50

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP24162
Surrogate	1.0ML	20 PPM	PP24180
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2600
Baked Na2SO4	N/A	EP2599
Sand	N/A	E2865
Methylene Chloride	N/A	E3904
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25	RP (Ext. Lab)	Y.P. Preptech
11:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167510

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167510BL	PB167510BL	TPH GC	30.01	N/A	ritesh	Evelyn	1			U3-1
PB167510BS	PB167510BS	TPH GC	30.03	N/A	ritesh	Evelyn	1			2
Q1744-01	B-158-SB01	TPH GC	30.05	N/A	ritesh	Evelyn	1	E		3
Q1744-03	B-158-SB02	TPH GC	30.06	N/A	ritesh	Evelyn	1	E		4
Q1744-03MS	B-158-SB02MS	TPH GC	30.02	N/A	ritesh	Evelyn	1	E		5
Q1744-03MSD	B-158-SB02MSD	TPH GC	30.09	N/A	ritesh	Evelyn	1	E		6
Q1746-01	B-149-SB01	TPH GC	30.08	N/A	ritesh	Evelyn	1	E		U2-1
Q1746-03	B-149-SB02	TPH GC	30.03	N/A	ritesh	Evelyn	1	F		2

* **Extracts relinquished on the same date as received.**

4/18/25

8:55
16TT10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1746 **WorkList ID :** 188792 **Department :** Extraction **Date :** 04-08-2025 08:15:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1744-01	B-158-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/05/2025	8015D
Q1744-03	B-158-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/05/2025	8015D
Q1746-01	B-149-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/05/2025	8015D
Q1746-03	B-149-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/06/2025	8015D

Date/Time 04/08/25 8:50
Raw Sample Received by: RJ (Ref 104)
Raw Sample Relinquished by: CP SR

Date/Time 04/08/25 9:10
Raw Sample Received by: CP SR
Raw Sample Relinquished by: RJ (Ref 104)

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
Q1746-05	**B-158-GW01**	**WATER**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
Q1746-06	**B-149-GW01**	**WATER**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
Q1746-07	**EB-2025-4-7**	**WATER**			**04/07/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	

SAMPLE DATA

Raw Data: FD068565.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/11/25 0:41	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.39	J	1	0.16	1.12	mg/kg	FC068565.D
Aliphatic C12-C16	Aliphatic C12-C16	1.86		1	0.12	0.75	mg/kg	FC068565.D
Aliphatic C16-C21	Aliphatic C16-C21	4.07		1	0.14	1.12	mg/kg	FC068565.D
Aliphatic C21-C28	Aliphatic C21-C28	0.79	J	1	0.59	1.49	mg/kg	FC068565.D
Aliphatic C28-C40	Aliphatic C28-C40	2.09	J	1	1.32	2.24	mg/kg	FC068565.D
Aromatic C10-C12	Aromatic C10-C12	0.48	J	1	0.13	0.75	mg/kg	FD049274.D
Aromatic C12-C16	Aromatic C12-C16	0.47	J	1	0.26	1.12	mg/kg	FD049274.D
Aromatic C16-C21	Aromatic C16-C21	3.58		1	0.45	1.87	mg/kg	FD049274.D
Aromatic C21-C36	Aromatic C21-C36	3.46		1	1.33	2.98	mg/kg	FD049274.D
Total AliphaticEPH	Total AliphaticEPH	9.20			2.34	6.72	mg/kg	
Total AromaticEPH	Total AromaticEPH	7.99			2.17	6.72	mg/kg	
Total EPH	Total EPH	17.2			4.51	13.4	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: FC068565.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068565.D	1	04/08/25	04/11/25	PB167513

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.39	J	0.16	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.86		0.12	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		4.07		0.14	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.79	J	0.59	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.09	J	1.32	2.24	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		44.0		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-01	Acq On:	11 Apr 2025 00:41
Client Sample ID:	B-149-SB01	Operator:	YP/AJ
Data file:	FC068565.D	Misc:	
Instrument:	FID_C	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	550884	5.232	300	ug/ml
Aliphatic C12-C16	6.645	10.043	2552564	24.946	200	ug/ml
Aliphatic C16-C21	10.044	13.409	5384417	54.489	300	ug/ml
Aliphatic C21-C28	13.410	17.073	996124	10.576	400	ug/ml
Aliphatic C28-C40	17.074	22.075	2512377	27.952	600	ug/ml
Aliphatic EPH	3.345	22.075	11996366	123.196		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	4089584	44.02		ug/ml
Aliphatic C9-C28	3.345	17.073	9483989	95.243	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049274.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.48	J	0.13	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.47	J	0.26	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	3.58		0.45	1.87	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.46		1.33	2.98	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	38.1		40 - 140	76%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	32.5		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.2		40 - 140	64%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-01	Acq On:	10 Apr 2025 17:53
Client Sample ID:	B-149-SB01	Operator:	YP/AJ
Data file:	FD049274.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	1017917	6.492	200	ug/ml
Aromatic C12-C16	6.186	8.813	1066324	6.264	300	ug/ml
Aromatic C16-C21	8.814	13.102	8051228	48.009	500	ug/ml
Aromatic C21-C36	13.103	18.519	6415020	46.438	800	ug/ml
Aromatic EPH	4.440	18.519	16550489	107.204		ug/ml
2-Bromonaphthalene (SURR)	7.749	7.749	5645993	38.11		ug/ml
2-Flurobiphenyl (SURR)	8.615	8.615	3309950	32.45		ug/ml
ortho-Terphenyl (SURR)	11.657	11.657	5676156	32.22		ug/ml

Raw Data: FD068569.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/11/25 3:09	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.37	J	1	0.17	1.18	mg/kg	FC068569.D
Aliphatic C12-C16	Aliphatic C12-C16	1.84		1	0.13	0.79	mg/kg	FC068569.D
Aliphatic C16-C21	Aliphatic C16-C21	0.70	J	1	0.15	1.18	mg/kg	FC068569.D
Aliphatic C21-C28	Aliphatic C21-C28	0.62	U	1	0.62	1.57	mg/kg	FC068569.D
Aliphatic C28-C40	Aliphatic C28-C40	2.07	J	1	1.39	2.35	mg/kg	FC068569.D
Aromatic C10-C12	Aromatic C10-C12	0.51	J	1	0.14	0.79	mg/kg	FD049278.D
Aromatic C12-C16	Aromatic C12-C16	0.55	J	1	0.27	1.18	mg/kg	FD049278.D
Aromatic C16-C21	Aromatic C16-C21	3.84		1	0.47	1.96	mg/kg	FD049278.D
Aromatic C21-C36	Aromatic C21-C36	2.28	J	1	1.40	3.14	mg/kg	FD049278.D
Total AliphaticEPH	Total AliphaticEPH	4.97	J		2.46	7.07	mg/kg	
Total AromaticEPH	Total AromaticEPH	7.18			2.28	7.07	mg/kg	
Total EPH	Total EPH	12.2	J		4.75	14.1	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068569.D	1	04/08/25	04/11/25	PB167513

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.37	J	0.17	1.18	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.84		0.13	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.70	J	0.15	1.18	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.62	U	0.62	1.57	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.07	J	1.39	2.35	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		58.6		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-03	Acq On:	11 Apr 2025 03:09
Client Sample ID:	B-149-SB02	Operator:	YP/AJ
Data file:	FC068569.D	Misc:	
Instrument:	FID_C	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	493328	4.686	300	ug/ml
Aliphatic C12-C16	6.645	10.043	2396771	23.424	200	ug/ml
Aliphatic C16-C21	10.044	13.409	875258	8.857	300	ug/ml
Aliphatic C21-C28	13.410	17.073	466350	4.951	400	ug/ml
Aliphatic C28-C40	17.074	22.075	2373373	26.405	600	ug/ml
Aliphatic EPH	3.345	22.075	6605080	68.323		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.150	13.150	5440453	58.57		ug/ml
Aliphatic C9-C28	3.345	17.073	4231707	41.918	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049278.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.51	J	0.14	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.55	J	0.27	1.18	mg/kg
Aromatic C16-C21	Aromatic C16-C21	3.84		0.47	1.96	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.28	J	1.40	3.14	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	39.4		40 - 140	79%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	32.0		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.7		40 - 140	85%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-03	Acq On:	10 Apr 2025 20:21
Client Sample ID:	B-149-SB02	Operator:	YP/AJ
Data file:	FD049278.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	1022562	6.522	200	ug/ml
Aromatic C12-C16	6.186	8.813	1185906	6.967	300	ug/ml
Aromatic C16-C21	8.814	13.102	8214518	48.983	500	ug/ml
Aromatic C21-C36	13.103	18.519	4014322	29.06	800	ug/ml
Aromatic EPH	4.440	18.519	14437308	91.531		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	5841715	39.44		ug/ml
2-Flurobiphenyl (SURR)	8.614	8.614	3261837	31.98		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	7525191	42.71		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 08:20	04/10/25 1:18	PB167524

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	15.8	J	1	8.45	30.6	ug/l	FC068541.D
Aliphatic C12-C16	Aliphatic C12-C16	391		10	137	204	ug/l	FC068547.D
Aliphatic C16-C21	Aliphatic C16-C21	2090		10	85.1	306	ug/l	FC068547.D
Aliphatic C21-C28	Aliphatic C21-C28	3410		10	127	408	ug/l	FC068547.D
Aliphatic C28-C40	Aliphatic C28-C40	949		1	24.3	61.2	ug/l	FC068541.D
Aromatic C10-C12	Aromatic C10-C12	34.2		1	2.11	20.4	ug/l	FD049263.D
Aromatic C12-C16	Aromatic C12-C16	22.3	J	1	4.35	30.6	ug/l	FD049263.D
Aromatic C16-C21	Aromatic C16-C21	472		1	8.44	51.0	ug/l	FD049263.D
Aromatic C21-C36	Aromatic C21-C36	711		1	24.3	81.6	ug/l	FD049263.D
Total AliphaticEPH	Total AliphaticEPH	6850			382	1010	ug/l	
Total AromaticEPH	Total AromaticEPH	1240			39.2	184	ug/l	
Total EPH	Total EPH	8090			421	1190	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068541.D	1	04/09/25	04/10/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	15.8	J	8.45	30.6	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	410	E	13.8	20.4	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	1980	E	8.51	30.6	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	3360	E	12.8	40.8	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	949		24.3	61.2	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	57.2		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-05	Acq On:	10 Apr 2025 01:18
Client Sample ID:	B-158-GW01	Operator:	YP/AJ
Data file:	FC068541.D	Misc:	
Instrument:	FID_C	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.348	6.648	814615	7.737	300	ug/ml
Aliphatic C12-C16	6.649	10.049	20593146	201.257	200	ug/ml
Aliphatic C16-C21	10.050	13.416	95906562	970.552	300	ug/ml
Aliphatic C21-C28	13.417	17.080	155267058	1650	400	ug/ml
Aliphatic C28-C40	17.081	22.083	41806447	465.122	600	ug/ml
Aliphatic EPH	3.348	22.083	314387828	3290		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.152	13.152	5317650	57.24		ug/ml
Aliphatic C9-C28	3.348	17.080	272581381	2830	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049263.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	34.2		2.11	20.4	ug/l
Aromatic C12-C16	Aromatic C12-C16	22.3	J	4.35	30.6	ug/l
Aromatic C16-C21	Aromatic C16-C21	472		8.44	51.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	711		24.3	81.6	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.7		40 - 140	85%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	35.8		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.9		40 - 140	72%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-05	Acq On:	09 Apr 2025 19:45
Client Sample ID:	B-158-GW01	Operator:	YP/AJ
Data file:	FD049263.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	2626017	16.748	200	ug/ml
Aromatic C12-C16	6.186	8.813	1860250	10.928	300	ug/ml
Aromatic C16-C21	8.814	13.103	38864405	231.748	500	ug/ml
Aromatic C21-C36	13.104	18.518	48184832	348.811	800	ug/ml
Aromatic EPH	4.440	18.518	91535504	608.235		ug/ml
ortho-Terphenyl (SURR)	11.659	11.659	6317649	35.86		ug/ml
2-Bromonaphthalene (SURR)	7.751	7.751	6329874	42.73		ug/ml
2-Flurobiphenyl (SURR)	8.616	8.616	3651797	35.8		ug/ml

Raw Data: **FC068547.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01DL	SDG No.:	Q1746
Lab Sample ID:	Q1746-05DL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068547.D	10	04/09/25	04/10/25	PB167524

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		84.5	U	84.5	306	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		391		137	204	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		2090		85.1	306	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		3410		127	408	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		849		242	612	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		5.29		40 - 140	106%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-05DL	Acq On:	10 Apr 2025 08:48
Client Sample ID:	B-158-GW01DL	Operator:	YP/AJ
Data file:	FC068547.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	11746	0.112	300	ug/ml
Aliphatic C12-C16	6.645	10.043	1963231	19.187	200	ug/ml
Aliphatic C16-C21	10.044	13.409	10133440	102.548	300	ug/ml
Aliphatic C21-C28	13.410	17.073	15719802	166.903	400	ug/ml
Aliphatic C28-C40	17.074	22.075	3742558	41.638	600	ug/ml
Aliphatic EPH	3.345	22.075	31570777	330.387		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.143	13.143	491634	5.29		ug/ml
Aliphatic C9-C28	3.345	17.073	27828219	288.75	1200	ug/ml

Raw Data: FD068540.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 08:20	04/10/25 0:41	PB167524

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	12.0	J	1	8.45	30.6	ug/l	FC068540.D
Aliphatic C12-C16	Aliphatic C12-C16	29.2		1	13.8	20.4	ug/l	FC068540.D
Aliphatic C16-C21	Aliphatic C16-C21	9.75	J	1	8.51	30.6	ug/l	FC068540.D
Aliphatic C21-C28	Aliphatic C21-C28	12.8	U	1	12.8	40.8	ug/l	FC068540.D
Aliphatic C28-C40	Aliphatic C28-C40	50.5	J	1	24.3	61.2	ug/l	FC068540.D
Aromatic C10-C12	Aromatic C10-C12	20.9		1	2.11	20.4	ug/l	FD049262.D
Aromatic C12-C16	Aromatic C12-C16	12.7	J	1	4.35	30.6	ug/l	FD049262.D
Aromatic C16-C21	Aromatic C16-C21	62.7		1	8.44	51.0	ug/l	FD049262.D
Aromatic C21-C36	Aromatic C21-C36	61.1	J	1	24.3	81.6	ug/l	FD049262.D
Total AliphaticEPH	Total AliphaticEPH	101	J		67.9	184	ug/l	
Total AromaticEPH	Total AromaticEPH	157	J		39.2	184	ug/l	
Total EPH	Total EPH	259	J		107	367	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068540.D	1	04/09/25	04/10/25	PB167524

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		12.0	J	8.45	30.6	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		29.2		13.8	20.4	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		9.75	J	8.51	30.6	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		12.8	U	12.8	40.8	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		50.5	J	24.3	61.2	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.5		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-06	Acq On:	10 Apr 2025 00:41
Client Sample ID:	B-149-GW01	Operator:	YP/AJ
Data file:	FC068540.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.348	6.648	619744	5.887	300	ug/ml
Aliphatic C12-C16	6.649	10.049	1465124	14.319	200	ug/ml
Aliphatic C16-C21	10.050	13.416	472130	4.778	300	ug/ml
Aliphatic C21-C28	13.417	17.080	429817	4.564	400	ug/ml
Aliphatic C28-C40	17.081	22.083	2224207	24.746	600	ug/ml
Aliphatic EPH	3.348	22.083	5211022	54.292		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.148	13.148	3943002	42.45		ug/ml
Aliphatic C9-C28	3.348	17.080	2986815	29.548	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049262.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	20.9		2.11	20.4	ug/l
Aromatic C12-C16	Aromatic C12-C16	12.7	J	4.35	30.6	ug/l
Aromatic C16-C21	Aromatic C16-C21	62.7		8.44	51.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	61.1	J	24.3	81.6	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	44.5		40 - 140	89%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	38.3		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.4		40 - 140	81%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-06	Acq On:	09 Apr 2025 19:08
Client Sample ID:	B-149-GW01	Operator:	YP/AJ
Data file:	FD049262.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	1604398	10.233	200	ug/ml
Aromatic C12-C16	6.186	8.813	1055167	6.199	300	ug/ml
Aromatic C16-C21	8.814	13.103	5148841	30.702	500	ug/ml
Aromatic C21-C36	13.104	18.518	4132458	29.915	800	ug/ml
Aromatic EPH	4.440	18.518	11940864	77.049		ug/ml
ortho-Terphenyl (SURR)	11.660	11.660	7121893	40.42		ug/ml
2-Bromonaphthalene (SURR)	7.751	7.751	6591465	44.5		ug/ml
2-Flurobiphenyl (SURR)	8.617	8.617	3909482	38.33		ug/ml

Raw Data: FD068539.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 08:20	04/10/25 0:04	PB167524

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.54	U	1	8.54	30.9	ug/l	FC068539.D
Aliphatic C12-C16	Aliphatic C12-C16	13.9	U	1	13.9	20.6	ug/l	FC068539.D
Aliphatic C16-C21	Aliphatic C16-C21	8.60	U	1	8.60	30.9	ug/l	FC068539.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9	U	1	12.9	41.2	ug/l	FC068539.D
Aliphatic C28-C40	Aliphatic C28-C40	24.5	U	1	24.5	61.9	ug/l	FC068539.D
Aromatic C10-C12	Aromatic C10-C12	2.13	U	1	2.13	20.6	ug/l	FD049261.D
Aromatic C12-C16	Aromatic C12-C16	4.39	U	1	4.39	30.9	ug/l	FD049261.D
Aromatic C16-C21	Aromatic C16-C21	29.5	J	1	8.53	51.5	ug/l	FD049261.D
Aromatic C21-C36	Aromatic C21-C36	24.5	U	1	24.5	82.5	ug/l	FD049261.D
Total AliphaticEPH	Total AliphaticEPH	68.4	U		68.4	186	ug/l	
Total AromaticEPH	Total AromaticEPH	39.5	U		39.5	186	ug/l	
Total EPH	Total EPH	108	U		108	371	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068539.D	1	04/09/25	04/10/25	PB167524

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		8.54	U	8.54	30.9	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		13.9	U	13.9	20.6	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		8.60	U	8.60	30.9	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		12.9	U	12.9	41.2	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		24.5	U	24.5	61.9	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.2		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-07	Acq On:	10 Apr 2025 00:04
Client Sample ID:	EB-2025-4-7	Operator:	YP/AJ
Data file:	FC068539.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.348	6.648	91141	0.866	300	ug/ml
Aliphatic C12-C16	6.649	10.049	548453	5.36	200	ug/ml
Aliphatic C16-C21	10.050	13.416	0	0	300	ug/ml
Aliphatic C21-C28	13.417	17.080	0	0	400	ug/ml
Aliphatic C28-C40	17.081	22.083	107725	1.199	600	ug/ml
Aliphatic EPH	3.348	22.083	747319	7.424		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.149	13.149	3916930	42.17		ug/ml
Aliphatic C9-C28	3.348	17.080	639594	6.226	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049261.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.13	U	2.13	20.6	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.39	U	4.39	30.9	ug/l
Aromatic C16-C21	Aromatic C16-C21	29.5	J	8.53	51.5	ug/l
Aromatic C21-C36	Aromatic C21-C36	24.5	U	24.5	82.5	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	38.4		40 - 140	77%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	34.5		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.5		40 - 140	71%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-07	Acq On:	09 Apr 2025 18:31
Client Sample ID:	EB-2025-4-7	Operator:	YP/AJ
Data file:	FD049261.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	0	0	200	ug/ml
Aromatic C12-C16	6.186	8.813	0	0	300	ug/ml
Aromatic C16-C21	8.814	13.103	2395605	14.285	500	ug/ml
Aromatic C21-C36	13.104	18.518	430932	3.12	800	ug/ml
Aromatic EPH	4.440	18.518	2826537	17.404		ug/ml
ortho-Terphenyl (SURR)	11.659	11.659	6256507	35.51		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	5686931	38.39		ug/ml
2-Flurobiphenyl (SURR)	8.616	8.616	3521137	34.52		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Run Number: FC041025AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB167524BL	95			0
PB167524BS	78			0
PB167524BSD	77			0
B-158-GW01	114			0
B-149-GW01	85			0
EB-2025-4-7	84			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Run Number: FC041125AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB167513BL	72			0
PB167513BS	75			0
PB167513BSD	73			0
B-149-SB01	88			0
B-149-SB01MS	80			0
B-149-SB01MSD	81			0
B-149-SB02	117			0
B-158-GW01DL	106			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Run Number: FD040925AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB167524BL	84	72	76	0
PB167524BS	85	76	74	0
PB167524BSD	85	78	77	0
B-158-GW01	85	72	72	0
B-149-GW01	89	77	81	0
EB-2025-4-7	77	69	71	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1746 SAS No.: Q1746 SDG No.: Q1746

Run Number: FD041025AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB167513BL	97	92	83	0
PB167513BS	96	97	83	0
PB167513BSD	90	92	77	0
B-149-SB01	76	65	64	0
B-149-SB01MS	75	63	63	0
B-149-SB01MSD	73	61	61	0
B-149-SB02	79	64	85	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : Q1746-01MS **Datafile:** FC068567.D

Client ID : B-149-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	11.2	0.39	5.46	45		(40-140)
Aliphatic C12-C16	7.5	1.86	7.54	76		(40-140)
Aliphatic C16-C21	11.2	4.07	10.3	56		(40-140)
Aliphatic C21-C28	14.9	0.79	13.2	83		(40-140)
Aliphatic C28-C40	22.4	2.09	20.9	84		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : Q1746-01MSD **Datafile:** FC068568.D

Client ID : B-149-SB01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	11.2	0.39	5.41	45		0.89 |	(40-140)	25
Aliphatic C12-C16	7.5	1.86	7.48	75		0.92 |	(40-140)	25
Aliphatic C16-C21	11.2	4.07	10.0	53		4.78 |	(40-140)	25
Aliphatic C21-C28	14.9	0.79	12.9	81		2.31 |	(40-140)	25
Aliphatic C28-C40	22.4	2.09	20.9	84		0.12 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : Q1746-01MS **Datafile:** FD049276.D

Client ID : B-149-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7.5	0.48	3.09	35	*	(40-140)
Aromatic C12-C16	11.2	0.47	6.86	57		(40-140)
Aromatic C16-C21	18.6	3.58	18.3	79		(40-140)
Aromatic C21-C36	29.8	3.46	30.2	90		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : Q1746-01MSD **Datafile:** FD049277.D

Client ID : B-149-SB01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	7.5	0.48	3.09	35	*	0.29 |	(40-140)	25
Aromatic C12-C16	11.2	0.47	6.69	56		2.48 |	(40-140)	25
Aromatic C16-C21	18.6	3.58	18.0	77		1.92 |	(40-140)	25
Aromatic C21-C36	29.8	3.46	30.0	89		0.67 |	(40-140)	25

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167524BS **Datafile:** FC068537.D

Client ID : PB167524BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	165	55		(40-140)
Aliphatic C12-C16	200	147	74		(40-140)
Aliphatic C16-C21	300	256	85		(40-140)
Aliphatic C21-C28	400	344	86		(40-140)
Aliphatic C28-C40	600	518	86		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167524BSD **Datafile:** FC068538.D

Client ID : PB167524BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	166	55		0.6|	(40-140)	50
Aliphatic C12-C16	200	144	72		2.1|	(40-140)	50
Aliphatic C16-C21	300	248	83		3.1|	(40-140)	50
Aliphatic C21-C28	400	335	84		2.7|	(40-140)	50
Aliphatic C28-C40	600	514	86		0.737|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167513BS **Datafile:** FC068561.D

Client ID : PB167513BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.72	57		(40-140)
Aliphatic C12-C16	6.7	5.43	82		(40-140)
Aliphatic C16-C21	10	9.70	97		(40-140)
Aliphatic C21-C28	13.3	13.1	98		(40-140)
Aliphatic C28-C40	20.0	19.1	96		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167513BSD **Datafile:** FC068562.D

Client ID : PB167513BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10.0	5.89	59		2.8|	(40-140)	50
Aliphatic C12-C16	6.7	5.49	82		1.1|	(40-140)	50
Aliphatic C16-C21	10.0	9.61	96		1|	(40-140)	50
Aliphatic C21-C28	13.3	12.9	97		1.6|	(40-140)	50
Aliphatic C28-C40	20.0	19.4	97		1.5|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167524BS **Datafile:** FD049259.D

Client ID : PB167524BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	108	54		(40-140)
Aromatic C12-C16	300	183	61		(40-140)
Aromatic C16-C21	500	388	78		(40-140)
Aromatic C21-C36	800	709	89		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167524BSD **Datafile:** FD049260.D

Client ID : PB167524BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	105	52		2.8|	(40-140)	50
Aromatic C12-C16	300	184	61		0.54|	(40-140)	50
Aromatic C16-C21	500	401	80		3.3|	(40-140)	50
Aromatic C21-C36	800	717	90		1.2|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167513BS **Datafile:** FD049270.D

Client ID : PB167513BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	4.16	62		(40-140)
Aromatic C12-C16	10	7.05	71		(40-140)
Aromatic C16-C21	16.7	15.0	90		(40-140)
Aromatic C21-C36	26.6	26.7	100		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1746 **SAS No :** Q1746 **SDG No:** Q1746

Sample No : PB167513BSD **Datafile:** FD049271.D

Client ID : PB167513BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	3.95	59		5.3|	(40-140)	50
Aromatic C12-C16	10.0	6.67	67		5.7|	(40-140)	50
Aromatic C16-C21	16.7	14.2	85		5.6|	(40-140)	50
Aromatic C21-C36	26.7	25.8	97		3.3|	(40-140)	50

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167513BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Instrument ID: FID_C Lab Sample ID: PB167513BL

Matrix: (soil/water) Solid Date Extracted: 4/8/2025 10:10:00 A

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB167513BS	PB167513BS
PB167513BSD	PB167513BSD
B-149-SB01	Q1746-01
B-149-SB01MS	Q1746-01MS
B-149-SB01MSD	Q1746-01MSD
B-149-SB02	Q1746-03

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167524BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1746 SAS No.: Q1746 SDG NO.: Q1746

Instrument ID: FID_C Lab Sample ID: PB167524BL

Matrix: (soil/water) Water Date Extracted: 4/9/2025 8:20:00 AM

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB167524BS	PB167524BS
PB167524BSD	PB167524BSD
B-158-GW01	Q1746-05
B-149-GW01	Q1746-06
EB-2025-4-7	Q1746-07

COMMENTS:

QC SAMPLE DATA

Raw Data: **FC068560.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167513BL			SDG No.:	Q1744
Lab Sample ID:	PB167513BL			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/10/25 21:36	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC068560.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC068560.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC068560.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC068560.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC068560.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049269.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049269.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049269.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.66	mg/kg	FD049269.D
TotalAliphaticEPH	Total AliphaticEPH	2.09	U		2.09	5.99	mg/kg	
TotalAromaticEPH	Total AromaticEPH	1.94	U		1.94	6.00	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068560.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BL	SDG No.:	Q1744
Lab Sample ID:	PB167513BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068560.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.3		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167513BL	Acq On:	10 Apr 2025 21:36
Client Sample ID:	PB167513BL	Operator:	YP/AJ
Data file:	FC068560.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	0	0	300	ug/ml
Aliphatic C12-C16	6.645	10.043	0	0	200	ug/ml
Aliphatic C16-C21	10.044	13.409	0	0	300	ug/ml
Aliphatic C21-C28	13.410	17.073	0	0	400	ug/ml
Aliphatic C28-C40	17.074	22.075	0	0	600	ug/ml
Aliphatic EPH	3.345	22.075	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.143	13.143	3367296	36.25		ug/ml
Aliphatic C9-C28	3.345	17.073	0	0	1200	ug/ml

Raw Data: **FD049269.D**

Alliance TECHNICAL GROUP

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BL	SDG No.:	Q1744
Lab Sample ID:	PB167513BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049269.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.6		40 - 140	97%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	45.8		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.5		40 - 140	83%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167513BL	Acq On:	10 Apr 2025 14:48
Client Sample ID:	PB167513BL	Operator:	YP/AJ
Data file:	FD049269.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	0	0	200	ug/ml
Aromatic C12-C16	6.186	8.813	0	0	300	ug/ml
Aromatic C16-C21	8.814	13.102	0	0	500	ug/ml
Aromatic C21-C36	13.103	18.519	0	0	800	ug/ml
Aromatic EPH	4.440	18.519	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	7195070	48.57		ug/ml
2-Flurobiphenyl (SURR)	8.616	8.616	4667252	45.76		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	7315586	41.52		ug/ml

Raw Data: **FC068536.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167524BL	SDG No.:	Q1746
Lab Sample ID:	PB167524BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 08:20	04/09/25 22:13	PB167524

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	1	8.28	30.0	ug/l	FC068536.D
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	1	13.5	20.0	ug/l	FC068536.D
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	1	8.34	30.0	ug/l	FC068536.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FC068536.D
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	1	23.8	60.0	ug/l	FC068536.D
Aromatic C10-C12	Aromatic C10-C12	2.07	U	1	2.07	20.0	ug/l	FD049258.D
Aromatic C12-C16	Aromatic C12-C16	4.26	U	1	4.26	30.0	ug/l	FD049258.D
Aromatic C16-C21	Aromatic C16-C21	8.27	U	1	8.27	50.0	ug/l	FD049258.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FD049258.D
Total AliphaticEPH	Total AliphaticEPH	66.4	U		66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	38.4	U		38.4	180	ug/l	
Total EPH	Total EPH	105	U		105	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068536.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167524BL		SDG No.:	Q1746	
Lab Sample ID:	PB167524BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068536.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	47.5		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167524BL	Acq On:	09 Apr 2025 22:13
Client Sample ID:	PB167524BL	Operator:	YP/AJ
Data file:	FC068536.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.348	6.648	0	0	300	ug/ml
Aliphatic C12-C16	6.649	10.049	0	0	200	ug/ml
Aliphatic C16-C21	10.050	13.416	0	0	300	ug/ml
Aliphatic C21-C28	13.417	17.080	0	0	400	ug/ml
Aliphatic C28-C40	17.081	22.083	0	0	600	ug/ml
Aliphatic EPH	3.348	22.083	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.146	13.146	4416517	47.54		ug/ml
Aliphatic C9-C28	3.348	17.080	0	0	1200	ug/ml

Raw Data: **FD049258.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167524BL		SDG No.:	Q1746	
Lab Sample ID:	PB167524BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049258.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.26	U	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	8.27	U	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.2		40 - 140	84%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	35.8		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.8		40 - 140	76%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167524BL	Acq On:	09 Apr 2025 16:38
Client Sample ID:	PB167524BL	Operator:	YP/AJ
Data file:	FD049258.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	0	0	200	ug/ml
Aromatic C12-C16	6.186	8.813	0	0	300	ug/ml
Aromatic C16-C21	8.814	13.103	0	0	500	ug/ml
Aromatic C21-C36	13.104	18.518	0	0	800	ug/ml
Aromatic EPH	4.440	18.518	0	0		ug/ml
ortho-Terphenyl (SURR)	11.660	11.660	6658414	37.79		ug/ml
2-Bromonaphthalene (SURR)	7.751	7.751	6250580	42.2		ug/ml
2-Flurobiphenyl (SURR)	8.616	8.616	3649949	35.78		ug/ml

Raw Data: **FC068561.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BS	SDG No.:	Q1746
Lab Sample ID:	PB167513BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/10/25 22:14	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.72		1	0.14	1.00	mg/kg	FC068561.D
Aliphatic C12-C16	Aliphatic C12-C16	5.43		1	0.11	0.67	mg/kg	FC068561.D
Aliphatic C16-C21	Aliphatic C16-C21	9.70		1	0.13	1.00	mg/kg	FC068561.D
Aliphatic C21-C28	Aliphatic C21-C28	13.1		1	0.53	1.33	mg/kg	FC068561.D
Aliphatic C28-C40	Aliphatic C28-C40	19.1		1	1.18	2.00	mg/kg	FC068561.D
Aromatic C10-C12	Aromatic C10-C12	4.16		1	0.12	0.67	mg/kg	FD049270.D
Aromatic C12-C16	Aromatic C12-C16	7.05		1	0.23	1.00	mg/kg	FD049270.D
Aromatic C16-C21	Aromatic C16-C21	15.0		1	0.40	1.67	mg/kg	FD049270.D
Aromatic C21-C36	Aromatic C21-C36	26.7		1	1.19	2.66	mg/kg	FD049270.D
Total AliphaticEPH	Total AliphaticEPH	53.0			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	52.9			1.94	6.00	mg/kg	
Total EPH	Total EPH	106			4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068561.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BS	SDG No.:	Q1746
Lab Sample ID:	PB167513BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068561.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.72		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.43		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.70		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.1		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.1		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167513BS	Acq On:	10 Apr 2025 22:14
Client Sample ID:	PB167513BS	Operator:	YP/AJ
Data file:	FC068561.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	9042394	85.887	300	ug/ml
Aliphatic C12-C16	6.645	10.043	8338947	81.497	200	ug/ml
Aliphatic C16-C21	10.044	13.409	14390551	145.629	300	ug/ml
Aliphatic C21-C28	13.410	17.073	18583668	197.31	400	ug/ml
Aliphatic C28-C40	17.074	22.075	25756434	286.556	600	ug/ml
Aliphatic EPH	3.345	22.075	76111994	796.878		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.144	13.144	3476251	37.42		ug/ml
Aliphatic C9-C28	3.345	17.073	50355560	510.323	1200	ug/ml

Raw Data: **FD049270.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167513BS		SDG No.:	Q1746	
Lab Sample ID:	PB167513BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049270.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.16		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.05		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.0		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.7		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.0		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.7		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.3		40 - 140	83%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167513BS	Acq On:	10 Apr 2025 15:25
Client Sample ID:	PB167513BS	Operator:	YP/AJ
Data file:	FD049270.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	9786368	62.416	200	ug/ml
Aromatic C12-C16	6.186	8.813	18016061	105.837	300	ug/ml
Aromatic C16-C21	8.814	13.102	37740425	225.045	500	ug/ml
Aromatic C21-C36	13.103	18.519	55456489	401.45	800	ug/ml
Aromatic EPH	4.440	18.519	120999343	794.748		ug/ml
2-Bromonaphthalene (SURR)	7.751	7.751	7104793	47.96		ug/ml
2-Flurobiphenyl (SURR)	8.617	8.617	4968091	48.71		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	7270035	41.26		ug/ml

Raw Data: **FC068537.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167524BS	SDG No.:	Q1746
Lab Sample ID:	PB167524BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 08:20	04/09/25 22:50	PB167524

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	165		1	8.28	30.0	ug/l	FC068537.D
Aliphatic C12-C16	Aliphatic C12-C16	147		1	13.5	20.0	ug/l	FC068537.D
Aliphatic C16-C21	Aliphatic C16-C21	256		1	8.34	30.0	ug/l	FC068537.D
Aliphatic C21-C28	Aliphatic C21-C28	344		1	12.5	40.0	ug/l	FC068537.D
Aliphatic C28-C40	Aliphatic C28-C40	518		1	23.8	60.0	ug/l	FC068537.D
Aromatic C10-C12	Aromatic C10-C12	108		1	2.07	20.0	ug/l	FD049259.D
Aromatic C12-C16	Aromatic C12-C16	183		1	4.26	30.0	ug/l	FD049259.D
Aromatic C16-C21	Aromatic C16-C21	388		1	8.27	50.0	ug/l	FD049259.D
Aromatic C21-C36	Aromatic C21-C36	709		1	23.8	80.0	ug/l	FD049259.D
Total AliphaticEPH	Total AliphaticEPH	1430			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1390			38.4	180	ug/l	
Total EPH	Total EPH	2820			105	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068537.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167524BS		SDG No.:	Q1746	
Lab Sample ID:	PB167524BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068537.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	165		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	147		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	256		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	344		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	518		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.2		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167524BS	Acq On:	09 Apr 2025 22:50
Client Sample ID:	PB167524BS	Operator:	YP/AJ
Data file:	FC068537.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.348	6.648	8733128	82.95	300	ug/ml
Aliphatic C12-C16	6.649	10.049	7557454	73.859	200	ug/ml
Aliphatic C16-C21	10.050	13.416	12663464	128.151	300	ug/ml
Aliphatic C21-C28	13.417	17.080	16226404	172.282	400	ug/ml
Aliphatic C28-C40	17.081	22.083	23314026	259.382	600	ug/ml
Aliphatic EPH	3.348	22.083	68494476	716.624		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.148	13.148	3639687	39.18		ug/ml
Aliphatic C9-C28	3.348	17.080	45180450	457.242	1200	ug/ml

Raw Data: **FD049259.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167524BS		SDG No.:	Q1746	
Lab Sample ID:	PB167524BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049259.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	108		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	183		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	388		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	709		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.7		40 - 140	85%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	38.2		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.2		40 - 140	74%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167524BS	Acq On:	09 Apr 2025 17:16
Client Sample ID:	PB167524BS	Operator:	YP/AJ
Data file:	FD049259.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	8518709	54.331	200	ug/ml
Aromatic C12-C16	6.186	8.813	15638702	91.871	300	ug/ml
Aromatic C16-C21	8.814	13.103	32545851	194.07	500	ug/ml
Aromatic C21-C36	13.104	18.518	49036295	354.974	800	ug/ml
Aromatic EPH	4.440	18.518	105739557	695.246		ug/ml
ortho-Terphenyl (SURR)	11.659	11.659	6555588	37.21		ug/ml
2-Bromonaphthalene (SURR)	7.751	7.751	6325577	42.7		ug/ml
2-Flurobiphenyl (SURR)	8.617	8.617	3899282	38.23		ug/ml

Raw Data: **FC068562.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BSD	SDG No.:	Q1746
Lab Sample ID:	PB167513BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/10/25 22:51	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.89		1	0.14	1.00	mg/kg	FC068562.D
Aliphatic C12-C16	Aliphatic C12-C16	5.49		1	0.11	0.67	mg/kg	FC068562.D
Aliphatic C16-C21	Aliphatic C16-C21	9.61		1	0.13	1.00	mg/kg	FC068562.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.53	1.33	mg/kg	FC068562.D
Aliphatic C28-C40	Aliphatic C28-C40	19.4		1	1.18	2.00	mg/kg	FC068562.D
Aromatic C10-C12	Aromatic C10-C12	3.95		1	0.12	0.67	mg/kg	FD049271.D
Aromatic C12-C16	Aromatic C12-C16	6.67		1	0.23	1.00	mg/kg	FD049271.D
Aromatic C16-C21	Aromatic C16-C21	14.2		1	0.40	1.67	mg/kg	FD049271.D
Aromatic C21-C36	Aromatic C21-C36	25.8		1	1.19	2.67	mg/kg	FD049271.D
Total AliphaticEPH	Total AliphaticEPH	53.3			2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	50.6			1.94	6.01	mg/kg	
Total EPH	Total EPH	104			4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068562.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BSD	SDG No.:	Q1746
Lab Sample ID:	PB167513BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068562.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.89		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.49		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.61		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.4		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.4		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167513BSD	Acq On:	10 Apr 2025 22:51
Client Sample ID:	PB167513BSD	Operator:	YP/AJ
Data file:	FC068562.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	9299361	88.328	300	ug/ml
Aliphatic C12-C16	6.645	10.043	8429399	82.381	200	ug/ml
Aliphatic C16-C21	10.044	13.409	14243382	144.14	300	ug/ml
Aliphatic C21-C28	13.410	17.073	18255682	193.827	400	ug/ml
Aliphatic C28-C40	17.074	22.075	26143226	290.859	600	ug/ml
Aliphatic EPH	3.345	22.075	76371050	799.535		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.144	13.144	3378740	36.37		ug/ml
Aliphatic C9-C28	3.345	17.073	50227824	508.676	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BSD	SDG No.:	Q1746
Lab Sample ID:	PB167513BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049271.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.95		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.67		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.2		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	25.8		1.19	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.1		40 - 140	90%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.1		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.6		40 - 140	77%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167513BSD	Acq On:	10 Apr 2025 16:01
Client Sample ID:	PB167513BSD	Operator:	YP/AJ
Data file:	FD049271.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	9301714	59.325	200	ug/ml
Aromatic C12-C16	6.186	8.813	17048886	100.155	300	ug/ml
Aromatic C16-C21	8.814	13.102	35679919	212.759	500	ug/ml
Aromatic C21-C36	13.103	18.519	53517642	387.415	800	ug/ml
Aromatic EPH	4.440	18.519	115548161	759.653		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	6686285	45.14		ug/ml
2-Flurobiphenyl (SURR)	8.617	8.617	4699720	46.07		ug/ml
ortho-Terphenyl (SURR)	11.657	11.657	6796630	38.58		ug/ml

Raw Data: **FC068538.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167524BSD	SDG No.:	Q1746
Lab Sample ID:	PB167524BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 08:20	04/09/25 23:27	PB167524

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	166		1	8.28	30.0	ug/l	FC068538.D
Aliphatic C12-C16	Aliphatic C12-C16	144		1	13.5	20.0	ug/l	FC068538.D
Aliphatic C16-C21	Aliphatic C16-C21	248		1	8.34	30.0	ug/l	FC068538.D
Aliphatic C21-C28	Aliphatic C21-C28	335		1	12.5	40.0	ug/l	FC068538.D
Aliphatic C28-C40	Aliphatic C28-C40	514		1	23.8	60.0	ug/l	FC068538.D
Aromatic C10-C12	Aromatic C10-C12	105		1	2.07	20.0	ug/l	FD049260.D
Aromatic C12-C16	Aromatic C12-C16	184		1	4.26	30.0	ug/l	FD049260.D
Aromatic C16-C21	Aromatic C16-C21	401		1	8.27	50.0	ug/l	FD049260.D
Aromatic C21-C36	Aromatic C21-C36	717		1	23.8	80.0	ug/l	FD049260.D
Total AliphaticEPH	Total AliphaticEPH	1410			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1410			38.4	180	ug/l	
Total EPH	Total EPH	2810			105	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068538.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167524BSD		SDG No.:	Q1746	
Lab Sample ID:	PB167524BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068538.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	166		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	144		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	248		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	335		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	514		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.3		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167524BSD	Acq On:	09 Apr 2025 23:27
Client Sample ID:	PB167524BSD	Operator:	YP/AJ
Data file:	FC068538.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.348	6.648	8766358	83.265	300	ug/ml
Aliphatic C12-C16	6.649	10.049	7412763	72.445	200	ug/ml
Aliphatic C16-C21	10.050	13.416	12259676	124.065	300	ug/ml
Aliphatic C21-C28	13.417	17.080	15818156	167.947	400	ug/ml
Aliphatic C28-C40	17.081	22.083	23104880	257.056	600	ug/ml
Aliphatic EPH	3.348	22.083	67361833	704.778		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	3554387	38.26		ug/ml
Aliphatic C9-C28	3.348	17.080	44256953	447.722	1200	ug/ml

Raw Data: **FD049260.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB167524BSD		SDG No.:	Q1746	
Lab Sample ID:	PB167524BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049260.D	1	04/09/25	04/09/25	PB167524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	105		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	184		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	401		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	717		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.4		40 - 140	85%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.6		40 - 140	77%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167524BSD	Acq On:	09 Apr 2025 17:54
Client Sample ID:	PB167524BSD	Operator:	YP/AJ
Data file:	FD049260.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	8238321	52.543	200	ug/ml
Aromatic C12-C16	6.186	8.813	15715743	92.323	300	ug/ml
Aromatic C16-C21	8.814	13.103	33634415	200.561	500	ug/ml
Aromatic C21-C36	13.104	18.518	49552047	358.708	800	ug/ml
Aromatic EPH	4.440	18.518	107140526	704.135		ug/ml
ortho-Terphenyl (SURR)	11.659	11.659	6801908	38.61		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	6278614	42.39		ug/ml
2-Flurobiphenyl (SURR)	8.617	8.617	3962978	38.85		ug/ml

Raw Data: **FC068567.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MS	SDG No.:	Q1746
Lab Sample ID:	Q1746-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/11/25 1:55	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.46		1	0.16	1.12	mg/kg	FC068567.D
Aliphatic C12-C16	Aliphatic C12-C16	7.54		1	0.12	0.75	mg/kg	FC068567.D
Aliphatic C16-C21	Aliphatic C16-C21	10.3		1	0.14	1.12	mg/kg	FC068567.D
Aliphatic C21-C28	Aliphatic C21-C28	13.2		1	0.59	1.49	mg/kg	FC068567.D
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1	1.32	2.24	mg/kg	FC068567.D
Aromatic C10-C12	Aromatic C10-C12	3.09		1	0.13	0.75	mg/kg	FD049276.D
Aromatic C12-C16	Aromatic C12-C16	6.86		1	0.26	1.12	mg/kg	FD049276.D
Aromatic C16-C21	Aromatic C16-C21	18.3		1	0.45	1.86	mg/kg	FD049276.D
Aromatic C21-C36	Aromatic C21-C36	30.2		1	1.33	2.98	mg/kg	FD049276.D
Total AliphaticEPH	Total AliphaticEPH	57.4			2.34	6.72	mg/kg	
Total AromaticEPH	Total AromaticEPH	58.5			2.17	6.71	mg/kg	
Total EPH	Total EPH	116			4.51	13.4	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068567.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MS	SDG No.:	Q1746
Lab Sample ID:	Q1746-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068567.D	1	04/08/25	04/11/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.46		0.16	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.54		0.12	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.3		0.14	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.2		0.59	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1.32	2.24	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.0		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-01MS	Acq On:	11 Apr 2025 01:55
Client Sample ID:	B-149-SB01MS	Operator:	YP/AJ
Data file:	FC068567.D	Misc:	
Instrument:	FID_C	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	7702838	73.164	300	ug/ml
Aliphatic C12-C16	6.645	10.043	10348107	101.132	200	ug/ml
Aliphatic C16-C21	10.044	13.409	13666430	138.301	300	ug/ml
Aliphatic C21-C28	13.410	17.073	16611483	176.37	400	ug/ml
Aliphatic C28-C40	17.074	22.075	25202936	280.398	600	ug/ml
Aliphatic EPH	3.345	22.075	73531794	769.365		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	3712633	39.97		ug/ml
Aliphatic C9-C28	3.345	17.073	48328858	488.967	1200	ug/ml

Raw Data: **FD049276.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MS	SDG No.:	Q1746
Lab Sample ID:	Q1746-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049276.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.09		0.13	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.86		0.26	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.3		0.45	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	30.2		1.33	2.98	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	37.3		40 - 140	75%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	31.3		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.3		40 - 140	63%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-01MS	Acq On:	10 Apr 2025 19:07
Client Sample ID:	B-149-SB01MS	Operator:	YP/AJ
Data file:	FD049276.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	6502884	41.475	200	ug/ml
Aromatic C12-C16	6.186	8.813	15663652	92.017	300	ug/ml
Aromatic C16-C21	8.814	13.102	41109336	245.134	500	ug/ml
Aromatic C21-C36	13.103	18.519	55857007	404.349	800	ug/ml
Aromatic EPH	4.440	18.519	119132879	782.975		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	5519783	37.26		ug/ml
2-Flurobiphenyl (SURR)	8.615	8.615	3189374	31.27		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	5506873	31.26		ug/ml

Raw Data: **FC068568.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MSD	SDG No.:	Q1746
Lab Sample ID:	Q1746-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/11/25 2:32	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.41		1	0.16	1.12	mg/kg	FC068568.D
Aliphatic C12-C16	Aliphatic C12-C16	7.48		1	0.12	0.75	mg/kg	FC068568.D
Aliphatic C16-C21	Aliphatic C16-C21	10.0		1	0.14	1.12	mg/kg	FC068568.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.59	1.49	mg/kg	FC068568.D
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1	1.32	2.24	mg/kg	FC068568.D
Aromatic C10-C12	Aromatic C10-C12	3.09		1	0.13	0.75	mg/kg	FD049277.D
Aromatic C12-C16	Aromatic C12-C16	6.69		1	0.26	1.12	mg/kg	FD049277.D
Aromatic C16-C21	Aromatic C16-C21	18.0		1	0.45	1.86	mg/kg	FD049277.D
Aromatic C21-C36	Aromatic C21-C36	30.0		1	1.33	2.98	mg/kg	FD049277.D
Total AliphaticEPH	Total AliphaticEPH	56.7			2.34	6.71	mg/kg	
Total AromaticEPH	Total AromaticEPH	57.8			2.17	6.71	mg/kg	
Total EPH	Total EPH	114			4.50	13.4	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Raw Data: **FC068568.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MSD	SDG No.:	Q1746
Lab Sample ID:	Q1746-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068568.D	1	04/08/25	04/11/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.41		0.16	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.48		0.12	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.0		0.14	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.59	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1.32	2.24	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.4		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-01MSD	Acq On:	11 Apr 2025 02:32
Client Sample ID:	B-149-SB01MSD	Operator:	YP/AJ
Data file:	FC068568.D	Misc:	
Instrument:	FID_C	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	7650872	72.67	300	ug/ml
Aliphatic C12-C16	6.645	10.043	10268534	100.355	200	ug/ml
Aliphatic C16-C21	10.044	13.409	13273967	134.329	300	ug/ml
Aliphatic C21-C28	13.410	17.073	16271859	172.764	400	ug/ml
Aliphatic C28-C40	17.074	22.075	25154299	279.857	600	ug/ml
Aliphatic EPH	3.345	22.075	72619531	759.975		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.148	13.148	3752451	40.4		ug/ml
Aliphatic C9-C28	3.345	17.073	47465232	480.118	1200	ug/ml

Raw Data: **FD049277.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MSD	SDG No.:	Q1746
Lab Sample ID:	Q1746-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049277.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.09		0.13	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.69		0.26	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.0		0.45	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	30.0		1.33	2.98	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	36.5		40 - 140	73%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.6		40 - 140	61%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-01MSD	Acq On:	10 Apr 2025 19:45
Client Sample ID:	B-149-SB01MSD	Operator:	YP/AJ
Data file:	FD049277.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	6505753	41.493	200	ug/ml
Aromatic C12-C16	6.186	8.813	15286302	89.801	300	ug/ml
Aromatic C16-C21	8.814	13.102	40540836	241.744	500	ug/ml
Aromatic C21-C36	13.103	18.519	55547232	402.107	800	ug/ml
Aromatic EPH	4.440	18.519	117880123	775.144		ug/ml
2-Bromonaphthalene (SURR)	7.749	7.749	5402290	36.47		ug/ml
2-Flurobiphenyl (SURR)	8.615	8.615	3125160	30.64		ug/ml
ortho-Terphenyl (SURR)	11.657	11.657	5397335	30.63		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC040925AL

AreaCount

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	28917690.000	15222657.000	6286032.000	3422392.000	1645296.000	
Aliphatic C12-C16	18431489.000	9897338.000	4088590.000	2253140.000	1056103.000	
Aliphatic C16-C21	26693561.000	14380121.000	5937795.000	3290227.000	1508988.000	
Aliphatic C21-C28	34681529.000	18246305.000	7529133.000	4137443.000	1908822.000	
Aliphatic C28-C40	51686216.000	25852842.000	10689091.000	5728785.000	2776165.000	
Aliphatic EPH	160410485.000	83599263.000	34530641.000	18831987.000	8895374.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	105282.0026666	6.555				
Aliphatic C12-C16	102322.575	7.446				
Aliphatic C16-C21	98816.5386664	7.616				
Aliphatic C21-C28	94185.337	6.542				
Aliphatic C28-C40	89882.8349998	4.545				
Aliphatic EPH	96276.6184442	6.125				

Concentration

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	96392.300000	101484.380000	104767.200000	114079.733333	109686.400000	
Aliphatic C12-C16	92157.445000	98973.380000	102214.750000	112657.000000	105610.300000	
Aliphatic C16-C21	88978.536666	95867.473333	98963.250000	109674.233333	100599.200000	

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Inital Calibration Report for SequenceID : FC040925AL

Aliphatic C21-C28	86703.822500	91231.525000	94114.162500	103436.075000	95441.100000	
Aliphatic C28-C40	86143.693333	86176.140000	89075.758333	95479.750000	92538.833333	
Aliphatic EPH	89116.936111	92888.070000	95918.447222	104622.150000	98837.488888	

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Inital Calibration Report for SequenceID : FD040725AR

AreaCount

Parameter Range	FD049232.D	FD049233.D	FD049234.D	FD049235.D	FD049236.D	
Aromatic C10-C12	29839752.000	14982241.000	6112471.000	3350222.000	1646164.000	
Aromatic C12-C16	49677487.000	24625801.000	9979747.000	5389632.000	2630674.000	
Aromatic C16-C21	65416364.000	32353084.000	13305741.000	7066388.000	3404391.000	
Aromatic C21-C36	119779017.000	59475216.000	24862220.000	13179500.000	6339819.000	
Aromatic EPH	264712620.000	131436342.000	54260179.000	28985742.000	14021048.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	156792.089	5.507				
Aromatic C12-C16	170225.0826662	4.035				
Aromatic C16-C21	167701.4685	3.541				
Aromatic C21-C36	138140.428666	4.246				
Aromatic EPH	152129.3976664	4.123				

Concentration

Parameter Range	FD049232.D	FD049233.D	FD049234.D	FD049235.D	FD049236.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD049232.D	FD049233.D	FD049234.D	FD049235.D	FD049236.D	
Aromatic C10-C12	149198.760000	149822.410000	152811.775000	167511.100000	164616.400000	
Aromatic C12-C16	165591.623333	164172.006666	166329.116666	179654.400000	175378.266666	
Aromatic C16-C21	163540.910000	161765.420000	166321.762500	176659.700000	170219.550000	
Aromatic C21-C36	133087.796666	132167.146666	138123.444444	146438.888888	140884.866666	
Aromatic EPH	147062.566666	146040.380000	150722.719444	161031.900000	155789.422222	

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Continuing Calibration Report for SequenceID : FC041025AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068535.D**						
Aliphatic C9-C12	6400996.000	60.000	3.348	6.648	106683.267	105282.003	-1.331
Aliphatic C12-C16	3901786.000	40.000	6.649	10.049	97544.650	102322.575	4.669
Aliphatic C16-C21	5395650.000	60.000	10.050	13.416	89927.500	98816.539	8.995
Aliphatic C21-C28	6868384.000	80.000	13.417	17.080	85854.800	94185.337	8.845
Aliphatic C28-C40	10279701.000	120.000	17.081	22.083	85664.175	89882.835	4.694
Aliphatic EPH	32846517.000	360.000	3.348	22.083	91240.325	96276.618	5.231

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	09 Apr 2025 21:00
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068535.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.348	6.648	6400996.000	60.000	ug/ml
Aliphatic C12-C16	6.649	10.049	3901786.000	40.000	ug/ml
Aliphatic C16-C21	10.050	13.416	5395650.000	60.000	ug/ml
Aliphatic C21-C28	13.417	17.080	6868384.000	80.000	ug/ml
Aliphatic C28-C40	17.081	22.083	10279701.000	120.000	ug/ml
Aliphatic EPH	3.348	22.083	32846517.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC041025AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068543.D**						
Aliphatic C9-C12	6325623.000	60.000	3.348	6.648	105427.050	105282.003	-0.138
Aliphatic C12-C16	3968971.000	40.000	6.649	10.049	99224.275	102322.575	3.028
Aliphatic C16-C21	5589399.000	60.000	10.050	13.416	93156.650	98816.539	5.728
Aliphatic C21-C28	6999387.000	80.000	13.417	17.080	87492.338	94185.337	7.106
Aliphatic C28-C40	10235913.000	120.000	17.081	22.083	85299.275	89882.835	5.099
Aliphatic EPH	33119293.000	360.000	3.348	22.083	91998.036	96276.618	4.444

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	10 Apr 2025 03:08
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068543.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.348	6.648	6325623.000	60.000	ug/ml
Aliphatic C12-C16	6.649	10.049	3968971.000	40.000	ug/ml
Aliphatic C16-C21	10.050	13.416	5589399.000	60.000	ug/ml
Aliphatic C21-C28	13.417	17.080	6999387.000	80.000	ug/ml
Aliphatic C28-C40	17.081	22.083	10235913.000	120.000	ug/ml
Aliphatic EPH	3.348	22.083	33119293.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC041125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068546.D**						
Aliphatic C9-C12	6138470.000	60.000	3.345	6.644	102307.833	105282.003	2.825
Aliphatic C12-C16	3913351.000	40.000	6.645	10.043	97833.775	102322.575	4.387
Aliphatic C16-C21	5581584.000	60.000	10.044	13.409	93026.400	98816.539	5.859
Aliphatic C21-C28	7034588.000	80.000	13.410	17.073	87932.350	94185.337	6.639
Aliphatic C28-C40	10265171.000	120.000	17.074	22.075	85543.092	89882.835	4.828
Aliphatic EPH	32933164.000	360.000	3.345	22.075	91481.011	96276.618	4.981

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	10 Apr 2025 07:56
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068546.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.345	6.644	6138470.000	60.000	ug/ml
Aliphatic C12-C16	6.645	10.043	3913351.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.409	5581584.000	60.000	ug/ml
Aliphatic C21-C28	13.410	17.073	7034588.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.075	10265171.000	120.000	ug/ml
Aliphatic EPH	3.345	22.075	32933164.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC041125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068549.D**						
Aliphatic C9-C12	6458363.000	60.000	3.345	6.644	107639.383	105282.003	-2.239
Aliphatic C12-C16	4079638.000	40.000	6.645	10.043	101990.950	102322.575	0.324
Aliphatic C16-C21	5727040.000	60.000	10.044	13.409	95450.667	98816.539	3.406
Aliphatic C21-C28	7100833.000	80.000	13.410	17.073	88760.413	94185.337	5.760
Aliphatic C28-C40	10339208.000	120.000	17.074	22.075	86160.067	89882.835	4.142
Aliphatic EPH	33705082.000	360.000	3.345	22.075	93625.228	96276.618	2.754

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	10 Apr 2025 11:16
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068549.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.345	6.644	6458363.000	60.000	ug/ml
Aliphatic C12-C16	6.645	10.043	4079638.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.409	5727040.000	60.000	ug/ml
Aliphatic C21-C28	13.410	17.073	7100833.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.075	10339208.000	120.000	ug/ml
Aliphatic EPH	3.345	22.075	33705082.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC041125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068559.D**						
Aliphatic C9-C12	6096249.000	60.000	3.345	6.644	101604.150	105282.003	3.493
Aliphatic C12-C16	3784483.000	40.000	6.645	10.043	94612.075	102322.575	7.535
Aliphatic C16-C21	5304758.000	60.000	10.044	13.409	88412.633	98816.539	10.529
Aliphatic C21-C28	6712207.000	80.000	13.410	17.073	83902.588	94185.337	10.918
Aliphatic C28-C40	10067118.000	120.000	17.074	22.075	83892.650	89882.835	6.664
Aliphatic EPH	31964815.000	360.000	3.345	22.075	88791.153	96276.618	7.775

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	10 Apr 2025 19:45
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068559.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.345	6.644	6096249.000	60.000	ug/ml
Aliphatic C12-C16	6.645	10.043	3784483.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.409	5304758.000	60.000	ug/ml
Aliphatic C21-C28	13.410	17.073	6712207.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.075	10067118.000	120.000	ug/ml
Aliphatic EPH	3.345	22.075	31964815.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC041125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068571.D**						
Aliphatic C9-C12	6233414.000	60.000	3.345	6.644	103890.233	105282.003	1.322
Aliphatic C12-C16	3778079.000	40.000	6.645	10.043	94451.975	102322.575	7.692
Aliphatic C16-C21	5202338.000	60.000	10.044	13.409	86705.633	98816.539	12.256
Aliphatic C21-C28	6676284.000	80.000	13.410	17.073	83453.550	94185.337	11.394
Aliphatic C28-C40	10202260.000	120.000	17.074	22.075	85018.833	89882.835	5.411
Aliphatic EPH	32092375.000	360.000	3.345	22.075	89145.486	96276.618	7.407

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	11 Apr 2025 04:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068571.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.345	6.644	6233414.000	60.000	ug/ml
Aliphatic C12-C16	6.645	10.043	3778079.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.409	5202338.000	60.000	ug/ml
Aliphatic C21-C28	13.410	17.073	6676284.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.075	10202260.000	120.000	ug/ml
Aliphatic EPH	3.345	22.075	32092375.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD040925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049257.D**						
Aromatic C10-C12	5253969.000	40.000	4.440	6.185	131349.225	156792.089	16.227
Aromatic C12-C16	8512326.000	60.000	6.186	8.813	141872.100	170225.083	16.656
Aromatic C16-C21	11443529.000	80.000	8.814	13.103	143044.113	167701.469	14.703
Aromatic C21-C36	22574454.000	180.000	13.104	18.518	125413.633	138140.429	9.213
Aromatic EPH	47784278.000	360.000	4.440	18.518	132734.106	152129.398	12.749

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	09 Apr 2025 12:11
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049257.D	Misc:	
Instrument:	FID_D	ALS Vial:	54
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.440	6.185	5253969.000	40.000	ug/ml
Aromatic C12-C16	6.186	8.813	8512326.000	60.000	ug/ml
Aromatic C16-C21	8.814	13.103	11443529.000	80.000	ug/ml
Aromatic C21-C36	13.104	18.518	22574454.000	180.000	ug/ml
Aromatic EPH	4.440	18.518	47784278.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD040925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049265.D**						
Aromatic C10-C12	5823092.000	40.000	4.440	6.185	145577.300	156792.089	7.153
Aromatic C12-C16	9287317.000	60.000	6.186	8.813	154788.617	170225.083	9.068
Aromatic C16-C21	12670535.000	80.000	8.814	13.103	158381.688	167701.469	5.557
Aromatic C21-C36	25214080.000	180.000	13.104	18.518	140078.222	138140.429	-1.403
Aromatic EPH	52995024.000	360.000	4.440	18.518	147208.400	152129.398	3.235

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	09 Apr 2025 21:37
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049265.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.440	6.185	5823092.000	40.000	ug/ml
Aromatic C12-C16	6.186	8.813	9287317.000	60.000	ug/ml
Aromatic C16-C21	8.814	13.103	12670535.000	80.000	ug/ml
Aromatic C21-C36	13.104	18.518	25214080.000	180.000	ug/ml
Aromatic EPH	4.440	18.518	52995024.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD041025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049268.D**						
Aromatic C10-C12	5439988.000	40.000	4.440	6.185	135999.700	156792.089	13.261
Aromatic C12-C16	8722016.000	60.000	6.186	8.813	145366.933	170225.083	14.603
Aromatic C16-C21	11673840.000	80.000	8.814	13.102	145923.000	167701.469	12.986
Aromatic C21-C36	23479622.000	180.000	13.103	18.519	130442.344	138140.429	5.573
Aromatic EPH	49315466.000	360.000	4.440	18.519	136987.406	152129.398	9.953

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	10 Apr 2025 14:10
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049268.D	Misc:	
Instrument:	FID_D	ALS Vial:	54
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.440	6.185	5439988.000	40.000	ug/ml
Aromatic C12-C16	6.186	8.813	8722016.000	60.000	ug/ml
Aromatic C16-C21	8.814	13.102	11673840.000	80.000	ug/ml
Aromatic C21-C36	13.103	18.519	23479622.000	180.000	ug/ml
Aromatic EPH	4.440	18.519	49315466.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD041025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049280.D**						
Aromatic C10-C12	5275482.000	40.000	4.440	6.185	131887.050	156792.089	15.884
Aromatic C12-C16	8494935.000	60.000	6.186	8.813	141582.250	170225.083	16.826
Aromatic C16-C21	11446135.000	80.000	8.814	13.102	143076.688	167701.469	14.684
Aromatic C21-C36	22930748.000	180.000	13.103	18.519	127393.044	138140.429	7.780
Aromatic EPH	48147300.000	360.000	4.440	18.519	133742.500	152129.398	12.086

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	10 Apr 2025 21:36
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049280.D	Misc:	
Instrument:	FID_D	ALS Vial:	54
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.440	6.185	5275482.000	40.000	ug/ml
Aromatic C12-C16	6.186	8.813	8494935.000	60.000	ug/ml
Aromatic C16-C21	8.814	13.102	11446135.000	80.000	ug/ml
Aromatic C21-C36	13.103	18.519	22930748.000	180.000	ug/ml
Aromatic EPH	4.440	18.519	48147300.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068565.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 00:41
Operator : YP/AJ
Sample : Q1746-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01

Integration File: autoint1.e
Quant Time: Apr 11 03:47:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.145	4089584	44.024 ug/ml
Spiked Amount 50.000		Recovery = 88.05%	
Target Compounds			

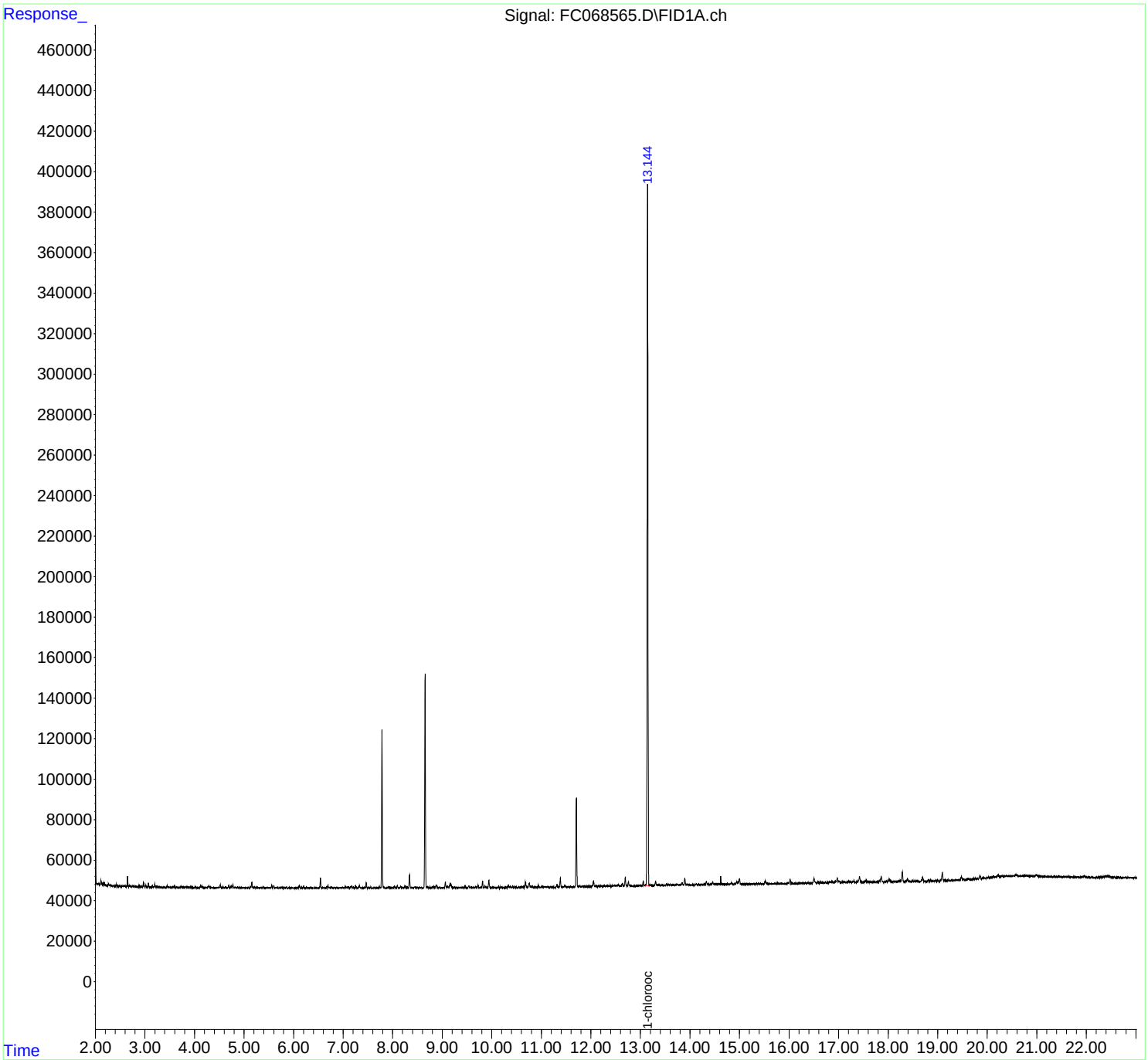
(f)=RT Delta > 1/2 Window (m)=manual int.

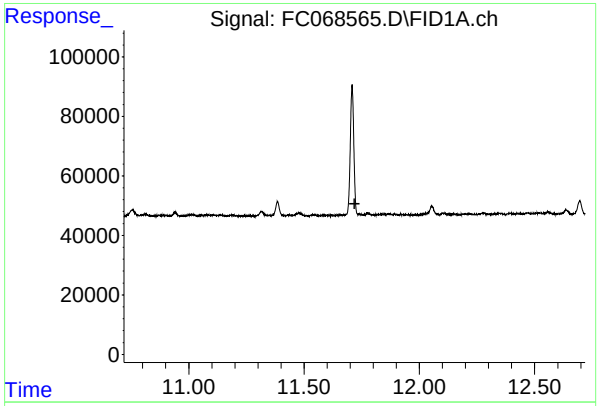
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068565.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 00:41
Operator : YP/AJ
Sample : Q1746-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01

Integration File: autoint1.e
Quant Time: Apr 11 03:47:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

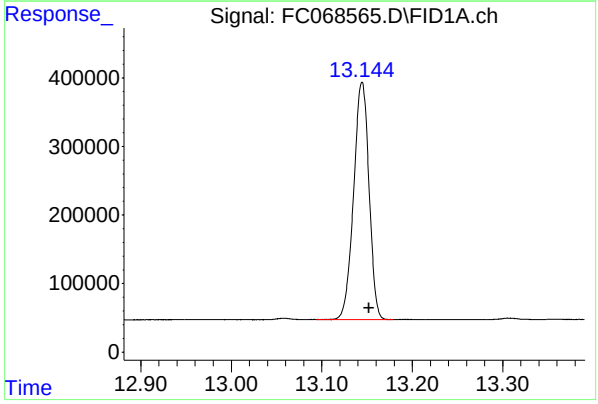




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-149-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.145 min
Delta R.T.: -0.007 min
Response: 4089584
Conc: 44.02 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068565.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 00:41
Sample : Q1746-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.419	2.401	2.475	PV	898	7285	0.18%	0.060%
2	2.484	2.475	2.526	PV	87	908	0.02%	0.007%
3	2.539	2.526	2.555	PV	56	509	0.01%	0.004%
4	2.573	2.555	2.596	VV	436	4428	0.11%	0.036%
5	2.610	2.596	2.622	VV	193	1444	0.04%	0.012%
6	2.648	2.622	2.669	VV	5147	40374	0.98%	0.332%
7	2.685	2.669	2.741	VV	482	9239	0.23%	0.076%
8	2.752	2.741	2.766	VV	288	2181	0.05%	0.018%
9	2.778	2.766	2.805	VV	275	2809	0.07%	0.023%
10	2.814	2.805	2.838	VV	218	1915	0.05%	0.016%
11	2.844	2.838	2.855	VV	80	361	0.01%	0.003%
12	2.881	2.855	2.944	PV	620	8604	0.21%	0.071%
13	2.969	2.944	3.005	VV	2278	28202	0.69%	0.232%
14	3.019	3.005	3.050	VV	887	8375	0.20%	0.069%
15	3.070	3.050	3.125	VV	1986	19385	0.47%	0.159%
16	3.150	3.125	3.175	VV	387	4795	0.12%	0.039%
17	3.198	3.175	3.244	VV	1686	17312	0.42%	0.142%
18	3.263	3.244	3.281	VV	211	3183	0.08%	0.026%
19	3.297	3.281	3.358	VV	198	3679	0.09%	0.030%
20	3.446	3.358	3.465	PV	783	10734	0.26%	0.088%
21	3.471	3.465	3.520	VV	255	4073	0.10%	0.033%
22	3.550	3.520	3.568	PV	283	3963	0.10%	0.033%
23	3.598	3.568	3.628	VV	892	11090	0.27%	0.091%
24	3.649	3.628	3.699	VV	241	5855	0.14%	0.048%
25	3.722	3.699	3.743	VV	403	5497	0.13%	0.045%
26	3.773	3.743	3.810	VV	351	8176	0.20%	0.067%
27	3.825	3.810	3.851	VV	389	6687	0.16%	0.055%
28	3.861	3.851	3.881	VV	263	3164	0.08%	0.026%
29	3.897	3.881	3.931	VV	347	5718	0.14%	0.047%
30	3.945	3.931	3.985	VV	385	5768	0.14%	0.047%
31	4.015	3.985	4.088	VV	571	12907	0.31%	0.106%
32	4.119	4.088	4.133	VV	650	8703	0.21%	0.071%
33	4.147	4.133	4.198	VV	1255	15459	0.38%	0.127%
34	4.216	4.198	4.251	VV	351	5360	0.13%	0.044%
35	4.291	4.251	4.314	VV	835	15067	0.37%	0.124%
36	4.328	4.314	4.407	VV	329	8519	0.21%	0.070%

rteres

37	4.448	4.407	4.460	PV	241	3971	0.10%	0.033%
38	4.478	4.460	4.496	VV	215	3960	0.10%	0.033%
39	4.520	4.496	4.558	VV	1652	20857	0.51%	0.171%
40	4.568	4.558	4.581	VV	402	3520	0.09%	0.029%
41	4.632	4.581	4.658	VV	424	9855	0.24%	0.081%
42	4.689	4.658	4.711	VV	1032	14580	0.36%	0.120%
43	4.745	4.711	4.759	VV	930	13277	0.32%	0.109%
44	4.776	4.759	4.795	VV	1821	17733	0.43%	0.146%
45	4.809	4.795	4.848	VV	321	5855	0.14%	0.048%
46	4.896	4.848	4.925	VV	284	7592	0.19%	0.062%
47	4.938	4.925	4.962	VV	302	4100	0.10%	0.034%
48	4.971	4.962	4.991	VV	249	2383	0.06%	0.020%
49	5.002	4.991	5.025	VV	305	2983	0.07%	0.025%
50	5.037	5.025	5.065	VV	115	2088	0.05%	0.017%
51	5.085	5.065	5.103	VV	178	3242	0.08%	0.027%
52	5.130	5.103	5.140	PV	655	6796	0.17%	0.056%
53	5.157	5.140	5.191	VV	2933	34116	0.83%	0.280%
54	5.215	5.191	5.233	VV	645	8994	0.22%	0.074%
55	5.244	5.233	5.322	VV	380	10056	0.25%	0.083%
56	5.351	5.322	5.368	VV	209	3523	0.09%	0.029%
57	5.383	5.368	5.417	VV	708	9033	0.22%	0.074%
58	5.440	5.417	5.451	VV	269	3929	0.10%	0.032%
59	5.458	5.451	5.470	VV	191	1909	0.05%	0.016%
60	5.509	5.470	5.538	VV	215	6088	0.15%	0.050%
61	5.560	5.538	5.579	VV	1577	17740	0.43%	0.146%
62	5.601	5.579	5.622	VV	1318	15594	0.38%	0.128%
63	5.659	5.622	5.691	VV	326	7140	0.17%	0.059%
64	5.699	5.691	5.706	VV	196	1315	0.03%	0.011%
65	5.750	5.706	5.780	VV	512	10233	0.25%	0.084%
66	5.805	5.780	5.828	VV	240	4239	0.10%	0.035%
67	5.850	5.828	5.881	VV	446	8278	0.20%	0.068%
68	5.905	5.881	5.931	VV	332	5511	0.13%	0.045%
69	5.941	5.931	5.961	VV	185	2207	0.05%	0.018%
70	5.979	5.961	6.001	VV	213	3303	0.08%	0.027%
71	6.017	6.001	6.036	PV	292	2976	0.07%	0.024%
72	6.068	6.036	6.097	VV	495	7074	0.17%	0.058%
73	6.117	6.097	6.141	VV	1498	17478	0.43%	0.144%
74	6.159	6.141	6.181	VV	490	5885	0.14%	0.048%
75	6.203	6.181	6.235	VV	1068	13084	0.32%	0.107%
76	6.263	6.235	6.288	VV	711	8764	0.21%	0.072%
77	6.334	6.288	6.359	VV	326	7789	0.19%	0.064%
78	6.368	6.359	6.378	VV	188	1568	0.04%	0.013%
79	6.391	6.378	6.413	VV	296	2992	0.07%	0.025%
80	6.429	6.413	6.445	VV	231	2716	0.07%	0.022%
81	6.470	6.445	6.501	VV	261	5694	0.14%	0.047%
82	6.543	6.501	6.591	VV	5134	56052	1.37%	0.460%
83	6.628	6.591	6.651	VV	384	6072	0.15%	0.050%
84	6.663	6.651	6.678	VV	286	3875	0.09%	0.032%
85	6.693	6.678	6.714	VV	1473	15430	0.38%	0.127%
86	6.730	6.714	6.749	VV	453	6296	0.15%	0.052%
87	6.766	6.749	6.795	VV	552	7461	0.18%	0.061%
88	6.823	6.795	6.845	VV	257	4408	0.11%	0.036%
89	6.872	6.845	6.916	VV	381	8022	0.20%	0.066%

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90	6.943	6.916	6.964	VV	220	4678	0.11%	0.038%
91	6.990	6.964	7.017	VV	436	7015	0.17%	0.058%
92	7.042	7.017	7.077	VV	762	16285	0.40%	0.134%
93	7.102	7.077	7.130	VV	662	12884	0.31%	0.106%
94	7.170	7.130	7.190	VV	1116	19613	0.48%	0.161%
95	7.205	7.190	7.227	VV	379	4894	0.12%	0.040%
96	7.248	7.227	7.290	VV	903	12641	0.31%	0.104%
97	7.330	7.290	7.417	VV	1346	26783	0.65%	0.220%
98	7.433	7.417	7.448	VV	405	5184	0.13%	0.043%
99	7.468	7.448	7.494	VV	2766	30442	0.74%	0.250%
100	7.534	7.494	7.548	VV	303	6297	0.15%	0.052%
101	7.560	7.548	7.585	VV	452	4864	0.12%	0.040%
102	7.594	7.585	7.607	VV	102	901	0.02%	0.007%
103	7.646	7.607	7.691	PV	245	6386	0.16%	0.052%
104	7.702	7.691	7.714	VV	105	1177	0.03%	0.010%
105	7.732	7.714	7.754	VV	640	6682	0.16%	0.055%
106	7.785	7.754	7.855	PV	77589	744748	18.15%	6.118%
107	7.897	7.855	7.912	VV	356	6715	0.16%	0.055%
108	7.923	7.912	7.936	VV	271	3259	0.08%	0.027%
109	7.949	7.936	7.973	VV	291	3897	0.09%	0.032%
110	7.990	7.973	8.008	VV	274	3135	0.08%	0.026%
111	8.036	8.008	8.071	VV	1156	15478	0.38%	0.127%
112	8.093	8.071	8.115	VV	1159	13597	0.33%	0.112%
113	8.162	8.115	8.185	VV	701	12108	0.30%	0.099%
114	8.193	8.185	8.220	VV	260	3287	0.08%	0.027%
115	8.246	8.220	8.265	VV	947	12279	0.30%	0.101%
116	8.272	8.265	8.295	VV	477	5835	0.14%	0.048%
117	8.301	8.295	8.314	VV	281	2474	0.06%	0.020%
118	8.340	8.314	8.406	VV	6611	74275	1.81%	0.610%
119	8.436	8.406	8.473	VV	522	12852	0.31%	0.106%
120	8.500	8.473	8.522	VV	289	6243	0.15%	0.051%
121	8.535	8.522	8.560	VV	322	3773	0.09%	0.031%
122	8.575	8.560	8.598	VV	287	3122	0.08%	0.026%
123	8.655	8.598	8.727	PV	105858	1052122	25.65%	8.642%
124	8.751	8.727	8.774	VV	410	7864	0.19%	0.065%
125	8.805	8.774	8.816	VV	491	9544	0.23%	0.078%
126	8.830	8.816	8.861	VV	532	9928	0.24%	0.082%
127	8.878	8.861	8.921	VV	1565	24717	0.60%	0.203%
128	8.936	8.921	8.977	VV	265	5390	0.13%	0.044%
129	8.996	8.977	9.015	PV	288	3340	0.08%	0.027%
130	9.031	9.015	9.040	VV	269	3170	0.08%	0.026%
131	9.064	9.040	9.083	VV	2834	31830	0.78%	0.261%
132	9.098	9.083	9.138	VV	761	17164	0.42%	0.141%
133	9.163	9.138	9.207	VV	2401	47905	1.17%	0.394%
134	9.218	9.207	9.238	VV	370	5055	0.12%	0.042%
135	9.251	9.238	9.277	VV	380	4381	0.11%	0.036%
136	9.304	9.277	9.334	PV	226	4390	0.11%	0.036%
137	9.351	9.334	9.372	VV	171	2508	0.06%	0.021%
138	9.398	9.372	9.415	VV	292	4590	0.11%	0.038%
139	9.425	9.415	9.433	VV	207	1882	0.05%	0.015%
140	9.462	9.433	9.510	VV	496	11787	0.29%	0.097%
141	9.536	9.510	9.564	VV	934	15151	0.37%	0.124%

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142	9.582	9.564	9.599	VV	391	6519	0.16%	0.054%
143	9.620	9.599	9.648	VV	391	7324	0.18%	0.060%
144	9.670	9.648	9.701	VV	672	10844	0.26%	0.089%
145	9.723	9.701	9.761	VV	1354	17062	0.42%	0.140%
146	9.783	9.761	9.798	VV	439	5412	0.13%	0.044%
147	9.815	9.798	9.840	VV	3298	34434	0.84%	0.283%
148	9.861	9.840	9.918	VV	745	12891	0.31%	0.106%
149	9.942	9.918	9.995	VV	3847	45591	1.11%	0.374%
150	10.016	9.995	10.096	VV	320	10474	0.26%	0.086%
151	10.115	10.096	10.123	PV	215	2002	0.05%	0.016%
152	10.140	10.123	10.199	VV	450	6621	0.16%	0.054%
153	10.223	10.199	10.238	VV	154	1889	0.05%	0.016%
154	10.288	10.238	10.304	VV	339	6574	0.16%	0.054%
155	10.333	10.304	10.356	VV	1296	18589	0.45%	0.153%
156	10.378	10.356	10.396	VV	446	7001	0.17%	0.058%
157	10.420	10.396	10.445	VV	468	8400	0.20%	0.069%
158	10.474	10.445	10.511	VV	426	7666	0.19%	0.063%
159	10.546	10.511	10.561	VV	271	4930	0.12%	0.040%
160	10.581	10.561	10.597	VV	293	4993	0.12%	0.041%
161	10.621	10.597	10.650	VV	369	8758	0.21%	0.072%
162	10.681	10.650	10.722	VV	2730	39119	0.95%	0.321%
163	10.756	10.722	10.786	VV	2147	36354	0.89%	0.299%
164	10.812	10.786	10.843	VV	604	12938	0.32%	0.106%
165	10.856	10.843	10.862	VV	223	2097	0.05%	0.017%
166	10.878	10.862	10.915	VV	287	6506	0.16%	0.053%
167	10.940	10.915	10.968	VV	1252	15285	0.37%	0.126%
168	10.978	10.968	10.985	VV	125	1256	0.03%	0.010%
169	11.014	10.985	11.036	VV	595	9952	0.24%	0.082%
170	11.052	11.036	11.061	VV	277	3297	0.08%	0.027%
171	11.078	11.061	11.093	VV	408	6065	0.15%	0.050%
172	11.107	11.093	11.123	VV	318	5172	0.13%	0.042%
173	11.137	11.123	11.163	VV	397	5388	0.13%	0.044%
174	11.190	11.163	11.215	VV	341	5048	0.12%	0.041%
175	11.316	11.215	11.345	PV	1438	21834	0.53%	0.179%
176	11.385	11.345	11.425	VV	4791	56637	1.38%	0.465%
177	11.432	11.425	11.451	VV	222	2756	0.07%	0.023%
178	11.478	11.451	11.513	VV	961	16272	0.40%	0.134%
179	11.542	11.513	11.566	PV	350	4887	0.12%	0.040%
180	11.585	11.566	11.609	VV	166	2659	0.06%	0.022%
181	11.624	11.609	11.648	VV	92	1801	0.04%	0.015%
182	11.708	11.648	11.757	VV	43456	477450	11.64%	3.922%
183	11.776	11.757	11.808	VV	799	12369	0.30%	0.102%
184	11.870	11.808	11.883	VV	460	15859	0.39%	0.130%
185	11.893	11.883	11.911	VV	372	4770	0.12%	0.039%
186	11.925	11.911	11.968	VV	275	7491	0.18%	0.062%
187	11.986	11.968	12.005	VV	255	3867	0.09%	0.032%
188	12.055	12.005	12.088	VV	3016	50025	1.22%	0.411%
189	12.104	12.088	12.125	VV	576	9163	0.22%	0.075%
190	12.153	12.125	12.176	VV	326	7483	0.18%	0.061%
191	12.214	12.176	12.246	VV	447	11862	0.29%	0.097%
192	12.276	12.246	12.312	VV	640	14504	0.35%	0.119%
193	12.346	12.312	12.374	VV	577	13860	0.34%	0.114%
194	12.392	12.374	12.408	VV	566	7701	0.19%	0.063%

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195	12.430	12.408	12.449	VV	462	9180	0.22%	0.075%
196	12.468	12.449	12.484	VV	624	9266	0.23%	0.076%
197	12.524	12.484	12.536	VV	528	14675	0.36%	0.121%
198	12.557	12.536	12.595	VV	910	17443	0.43%	0.143%
199	12.636	12.595	12.665	VV	1571	25945	0.63%	0.213%
200	12.695	12.665	12.735	VV	4503	62108	1.51%	0.510%
201	12.759	12.735	12.802	VV	2272	35740	0.87%	0.294%
202	12.816	12.802	12.891	VV	322	9808	0.24%	0.081%
203	12.951	12.891	13.007	VV	408	18555	0.45%	0.152%
204	13.019	13.007	13.035	VV	317	3557	0.09%	0.029%
205	13.058	13.035	13.081	VV	2278	27626	0.67%	0.227%
206	13.093	13.081	13.099	VV	528	5113	0.12%	0.042%
207	13.144	13.099	13.179	VV	347294	4102386	100.00%	33.698%
208	13.192	13.179	13.227	VV	508	10797	0.26%	0.089%
209	13.254	13.227	13.275	VV	355	8373	0.20%	0.069%
210	13.307	13.275	13.345	VV	2306	37162	0.91%	0.305%
211	13.361	13.345	13.411	VV	593	17533	0.43%	0.144%
212	13.417	13.411	13.464	VV	373	9723	0.24%	0.080%
213	13.525	13.464	13.565	VV	607	25852	0.63%	0.212%
214	13.579	13.565	13.621	VV	542	15040	0.37%	0.124%
215	13.651	13.621	13.671	VV	648	13828	0.34%	0.114%
216	13.739	13.671	13.778	VV	562	26238	0.64%	0.216%
217	13.797	13.778	13.815	VV	488	8797	0.21%	0.072%
218	13.843	13.815	13.866	VV	1483	23275	0.57%	0.191%
219	13.894	13.866	13.944	VV	3703	57460	1.40%	0.472%
220	13.962	13.944	14.029	VV	519	17441	0.43%	0.143%
221	14.044	14.029	14.090	VV	261	8657	0.21%	0.071%
222	14.125	14.090	14.155	VV	674	16478	0.40%	0.135%
223	14.185	14.155	14.211	VV	398	10718	0.26%	0.088%
224	14.229	14.211	14.248	VV	418	7101	0.17%	0.058%
225	14.259	14.248	14.268	VV	458	4496	0.11%	0.037%
226	14.330	14.268	14.354	VV	1771	37330	0.91%	0.307%
227	14.364	14.354	14.401	VV	517	11776	0.29%	0.097%
228	14.419	14.401	14.433	VV	547	8086	0.20%	0.066%
229	14.457	14.433	14.481	VV	1746	25184	0.61%	0.207%
230	14.492	14.481	14.507	VV	401	5492	0.13%	0.045%
231	14.563	14.507	14.608	VV	551	25486	0.62%	0.209%
232	14.621	14.608	14.644	VV	1623	11668	0.28%	0.096%
233	14.666	14.644	14.678	VV	543	8249	0.20%	0.068%
234	14.690	14.678	14.700	VV	357	4481	0.11%	0.037%
235	14.722	14.700	14.765	VV	556	15671	0.38%	0.129%
236	14.777	14.765	14.795	VV	413	5881	0.14%	0.048%
237	14.836	14.795	14.875	VV	967	24054	0.59%	0.198%
238	14.890	14.875	14.908	VV	402	6352	0.15%	0.052%
239	14.953	14.908	14.965	VV	1224	28719	0.70%	0.236%
240	14.998	14.965	15.078	VV	2826	63354	1.54%	0.520%
241	15.101	15.078	15.130	VV	364	7795	0.19%	0.064%
242	15.141	15.130	15.157	VV	263	3197	0.08%	0.026%
243	15.191	15.157	15.225	VV	347	9462	0.23%	0.078%
244	15.256	15.225	15.278	VV	304	7916	0.19%	0.065%
245	15.283	15.278	15.301	VV	345	3556	0.09%	0.029%
246	15.336	15.301	15.353	VV	414	8634	0.21%	0.071%

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247	15.383	15.353	15.406	VV	452	10016	0.24%	0.082%
248	15.426	15.406	15.445	VV	384	6426	0.16%	0.053%
249	15.458	15.445	15.490	VV	281	4761	0.12%	0.039%
250	15.519	15.490	15.556	VV	1639	29459	0.72%	0.242%
251	15.568	15.556	15.588	VV	335	4485	0.11%	0.037%
252	15.607	15.588	15.628	VV	418	6765	0.16%	0.056%
253	15.644	15.628	15.661	VV	253	3671	0.09%	0.030%
254	15.669	15.661	15.682	VV	176	1978	0.05%	0.016%
255	15.703	15.682	15.736	VV	345	7889	0.19%	0.065%
256	15.752	15.736	15.769	VV	376	5836	0.14%	0.048%
257	15.784	15.769	15.808	VV	322	6196	0.15%	0.051%
258	15.851	15.808	15.868	VV	400	9656	0.24%	0.079%
259	15.879	15.868	15.893	VV	276	3273	0.08%	0.027%
260	15.904	15.893	15.935	VV	209	4829	0.12%	0.040%
261	15.979	15.935	15.997	VV	750	12420	0.30%	0.102%
262	16.021	15.997	16.108	VV	2405	39400	0.96%	0.324%
263	16.121	16.108	16.145	VV	176	2244	0.05%	0.018%
264	16.193	16.145	16.211	PV	379	7917	0.19%	0.065%
265	16.219	16.211	16.271	VV	430	10990	0.27%	0.090%
266	16.322	16.271	16.364	VV	374	14116	0.34%	0.116%
267	16.404	16.364	16.439	VV	356	11728	0.29%	0.096%
268	16.502	16.439	16.560	VV	2430	54803	1.34%	0.450%
269	16.589	16.560	16.607	VV	605	10927	0.27%	0.090%
270	16.625	16.607	16.647	VV	497	9517	0.23%	0.078%
271	16.664	16.647	16.764	VV	580	28517	0.70%	0.234%
272	16.817	16.764	16.835	VV	900	20742	0.51%	0.170%
273	16.873	16.835	16.909	VV	920	23611	0.58%	0.194%
274	16.973	16.909	16.998	VV	2658	54581	1.33%	0.448%
275	17.007	16.998	17.062	VV	955	21924	0.53%	0.180%
276	17.123	17.062	17.151	VV	563	22373	0.55%	0.184%
277	17.229	17.151	17.263	VV	806	35707	0.87%	0.293%
278	17.305	17.263	17.341	VV	840	25041	0.61%	0.206%
279	17.422	17.341	17.451	VV	3031	64976	1.58%	0.534%
280	17.471	17.451	17.488	VV	537	9958	0.24%	0.082%
281	17.509	17.488	17.530	VV	469	10269	0.25%	0.084%
282	17.553	17.530	17.615	VV	973	27348	0.67%	0.225%
283	17.635	17.615	17.668	VV	457	9408	0.23%	0.077%
284	17.685	17.668	17.698	VV	310	5081	0.12%	0.042%
285	17.719	17.698	17.750	VV	406	9740	0.24%	0.080%
286	17.769	17.750	17.801	VV	549	12182	0.30%	0.100%
287	17.859	17.801	17.891	VV	2839	59679	1.45%	0.490%
288	17.921	17.891	17.938	VV	320	7522	0.18%	0.062%
289	17.952	17.938	17.974	VV	347	5887	0.14%	0.048%
290	18.023	17.974	18.092	VV	1432	41403	1.01%	0.340%
291	18.119	18.092	18.135	VV	355	6554	0.16%	0.054%
292	18.152	18.135	18.168	VV	310	5456	0.13%	0.045%
293	18.187	18.168	18.198	VV	318	4818	0.12%	0.040%
294	18.240	18.198	18.257	VV	768	17911	0.44%	0.147%
295	18.285	18.257	18.329	VV	4842	71101	1.73%	0.584%
296	18.389	18.329	18.438	PV	1302	30073	0.73%	0.247%
297	18.449	18.438	18.474	VV	247	3838	0.09%	0.032%
298	18.499	18.474	18.518	VV	477	7405	0.18%	0.061%
299	18.542	18.518	18.578	VV	357	8905	0.22%	0.073%

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300	18.590	18.578	18.617	VV	239	4080	0.10%	0.034%
301	18.627	18.617	18.645	VV	171	2071	0.05%	0.017%
302	18.694	18.645	18.762	VV	2313	40997	1.00%	0.337%
303	18.812	18.762	18.840	PV	726	14407	0.35%	0.118%
304	18.861	18.840	18.881	VV	658	9993	0.24%	0.082%
305	18.890	18.881	18.901	VV	301	3039	0.07%	0.025%
306	18.907	18.901	18.928	VV	144	2157	0.05%	0.018%
307	18.951	18.928	18.971	VV	293	5812	0.14%	0.048%
308	18.991	18.971	19.001	VV	305	3831	0.09%	0.031%
309	19.008	19.001	19.031	VV	260	3124	0.08%	0.026%
310	19.093	19.031	19.126	PV	4123	70877	1.73%	0.582%
311	19.145	19.126	19.183	VV	581	12804	0.31%	0.105%
312	19.207	19.183	19.245	VV	528	12570	0.31%	0.103%
313	19.299	19.245	19.309	VV	362	11044	0.27%	0.091%
314	19.339	19.309	19.357	VV	397	9910	0.24%	0.081%
315	19.381	19.357	19.435	VV	447	17711	0.43%	0.145%
316	19.479	19.435	19.507	VV	2053	42107	1.03%	0.346%
317	19.523	19.507	19.565	VV	854	20063	0.49%	0.165%
318	19.616	19.565	19.641	VV	959	26612	0.65%	0.219%
319	19.726	19.641	19.744	VV	845	42261	1.03%	0.347%
320	19.774	19.744	19.817	VV	889	35187	0.86%	0.289%
321	19.854	19.817	19.881	VV	2149	51272	1.25%	0.421%
322	19.912	19.881	19.941	VV	1080	35935	0.88%	0.295%
323	19.969	19.941	19.991	VV	1059	30742	0.75%	0.253%
324	20.035	19.991	20.061	VV	1448	52025	1.27%	0.427%
325	20.133	20.061	20.160	VV	1629	81389	1.98%	0.669%
326	20.219	20.160	20.247	VV	2554	93880	2.29%	0.771%
327	20.308	20.247	20.344	VV	1819	99968	2.44%	0.821%
328	20.386	20.344	20.427	VV	2034	92027	2.24%	0.756%
329	20.460	20.427	20.511	VV	1943	94274	2.30%	0.774%
330	20.521	20.511	20.551	VV	1870	42956	1.05%	0.353%
331	20.586	20.551	20.633	VV	2278	94217	2.30%	0.774%
332	20.723	20.633	20.758	VV	1929	133065	3.24%	1.093%
333	20.786	20.758	20.868	VV	1960	112129	2.73%	0.921%
334	20.876	20.868	20.911	VV	1564	38308	0.93%	0.315%
335	20.992	20.911	21.041	VV	1960	119547	2.91%	0.982%
336	21.050	21.041	21.121	VV	1325	58825	1.43%	0.483%
337	21.147	21.121	21.165	VV	1213	30574	0.75%	0.251%
338	21.171	21.165	21.228	VV	1200	41233	1.01%	0.339%
339	21.258	21.228	21.281	VV	1085	32444	0.79%	0.267%
340	21.291	21.281	21.321	VV	967	22386	0.55%	0.184%
341	21.329	21.321	21.334	VV	981	7176	0.17%	0.059%
342	21.342	21.334	21.349	VV	1010	9264	0.23%	0.076%
343	21.356	21.349	21.418	VV	964	36608	0.89%	0.301%
344	21.449	21.418	21.502	VV	1080	46029	1.12%	0.378%
345	21.511	21.502	21.541	VV	772	16965	0.41%	0.139%
346	21.552	21.541	21.595	VV	754	22088	0.54%	0.181%
347	21.601	21.595	21.620	VV	692	9633	0.23%	0.079%
348	21.631	21.620	21.655	VV	633	12403	0.30%	0.102%
349	21.664	21.655	21.671	VV	594	5585	0.14%	0.046%
350	21.682	21.671	21.730	VV	568	19308	0.47%	0.159%
351	21.750	21.730	21.871	VV	575	37940	0.92%	0.312%

					rteres			
352	21.963	21.901	22.081	VV	725	38890	0.95%	0.319%
353	22.089	22.081	22.095	VV	159	1200	0.03%	0.010%
354	22.123	22.095	22.171	VV	235	5944	0.14%	0.049%
355	22.228	22.171	22.278	VV	146	4694	0.11%	0.039%
356	22.288	22.278	22.298	PV	13	391	0.01%	0.003%
357	22.309	22.298	22.320	PV	77	372	0.01%	0.003%
			Sum of corrected areas:			12173953		

Aliphatic EPH 040925.M Fri Apr 11 04:57:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049274.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 17:53
Operator : YP/AJ
Sample : Q1746-01
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01

Integration File: autoint1.e
Quant Time: Apr 11 01:04:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.749	5645993	38.114 ug/ml
Spiked Amount 50.000		Recovery =	76.23%
6) S 2-Flurobiphenyl (SURR)	8.615	3309950	32.450 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	64.90%
11) S ortho-Terphenyl (SURR)	11.657	5676156	32.217 ug/ml
Spiked Amount 50.000		Recovery =	64.43%
Target Compounds			

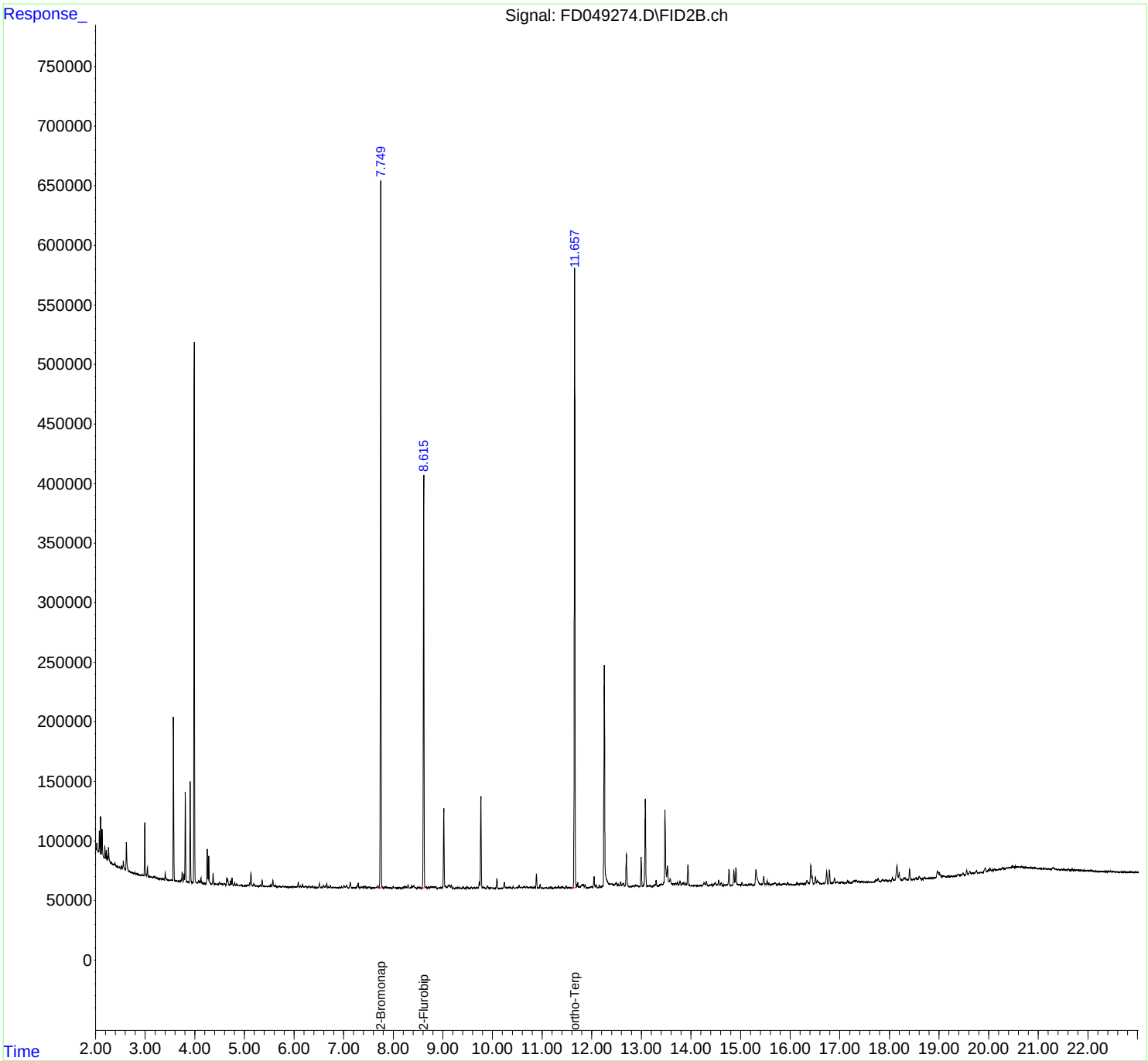
(f)=RT Delta > 1/2 Window (m)=manual int.

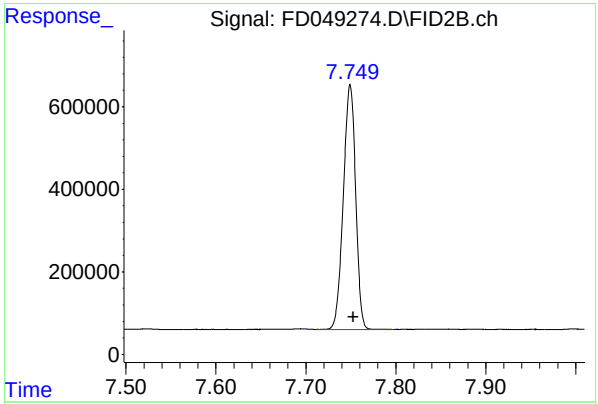
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049274.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 17:53
Operator : YP/AJ
Sample : Q1746-01
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01

Integration File: autoint1.e
Quant Time: Apr 11 01:04:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

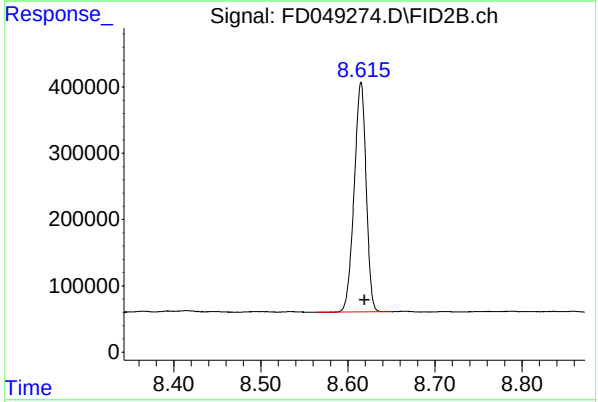




#4 2-Bromonaphthalene (SURR)

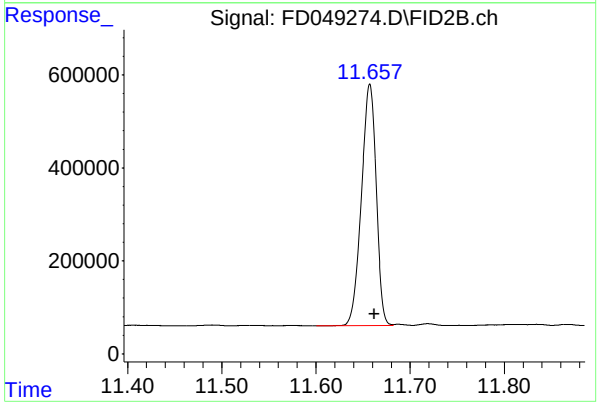
R.T.: 7.749 min
Delta R.T.: -0.003 min
Response: 5645993
Conc: 38.11 ug/ml

Instrument :
FID_D
ClientSampleId :
B-149-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.615 min
Delta R.T.: -0.004 min
Response: 3309950
Conc: 32.45 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.657 min
Delta R.T.: -0.005 min
Response: 5676156
Conc: 32.22 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049274.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 17:53
Sample : Q1746-01
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.072	4.042	4.083	BV	2072	15235	0.27%	0.038%
2	4.096	4.083	4.110	VV	1649	16531	0.29%	0.042%
3	4.125	4.110	4.141	VV	4505	40527	0.71%	0.102%
4	4.147	4.141	4.167	VV	814	6154	0.11%	0.015%
5	4.171	4.167	4.180	VV	259	1147	0.02%	0.003%
6	4.192	4.180	4.226	VV	722	8165	0.14%	0.021%
7	4.252	4.226	4.268	PV	29412	318283	5.60%	0.800%
8	4.282	4.268	4.331	VV	23600	228005	4.01%	0.573%
9	4.337	4.331	4.345	VV	400	3080	0.05%	0.008%
10	4.369	4.345	4.386	VV	9571	82736	1.45%	0.208%
11	4.391	4.386	4.428	VV	891	11781	0.21%	0.030%
12	4.435	4.428	4.441	VV	435	3086	0.05%	0.008%
13	4.447	4.441	4.482	VV	542	8677	0.15%	0.022%
14	4.497	4.482	4.514	VV	2623	26241	0.46%	0.066%
15	4.525	4.514	4.530	VV	658	5317	0.09%	0.013%
16	4.540	4.530	4.551	VV	944	9971	0.18%	0.025%
17	4.557	4.551	4.580	VV	822	11316	0.20%	0.028%
18	4.592	4.580	4.604	VV	1348	15399	0.27%	0.039%
19	4.610	4.604	4.630	VV	1222	11781	0.21%	0.030%
20	4.645	4.630	4.656	VV	6377	58859	1.03%	0.148%
21	4.664	4.656	4.690	VV	4752	48668	0.86%	0.122%
22	4.697	4.690	4.705	VV	631	4425	0.08%	0.011%
23	4.721	4.705	4.736	VV	3811	37829	0.67%	0.095%
24	4.751	4.736	4.775	VV	6560	60742	1.07%	0.153%
25	4.805	4.775	4.824	PV	2700	28225	0.50%	0.071%
26	4.840	4.824	4.863	VV	1774	22045	0.39%	0.055%
27	4.869	4.863	4.897	VV	768	10660	0.19%	0.027%
28	4.908	4.897	4.917	VV	387	4134	0.07%	0.010%
29	4.920	4.917	4.925	VV	433	2021	0.04%	0.005%
30	4.938	4.925	4.962	VV	749	11851	0.21%	0.030%
31	4.966	4.962	4.988	VV	367	3151	0.06%	0.008%
32	5.000	4.988	5.014	PV	312	2974	0.05%	0.007%
33	5.019	5.014	5.027	VV	325	1819	0.03%	0.005%
34	5.032	5.027	5.036	VV	234	1272	0.02%	0.003%
35	5.057	5.036	5.083	VV	904	16260	0.29%	0.041%
36	5.106	5.083	5.115	VV	2827	30732	0.54%	0.077%

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37	5.132	5.115	5.163	VV	11188	128880	2.27%	0.324%
38	5.189	5.163	5.210	VV	2272	30949	0.54%	0.078%
39	5.214	5.210	5.231	VV	572	5063	0.09%	0.013%
40	5.247	5.231	5.265	VV	776	9557	0.17%	0.024%
41	5.270	5.265	5.287	VV	375	3054	0.05%	0.008%
42	5.322	5.287	5.342	VV	1015	17560	0.31%	0.044%
43	5.358	5.342	5.396	VV	5338	57053	1.00%	0.143%
44	5.403	5.396	5.409	VV	287	2008	0.04%	0.005%
45	5.417	5.409	5.427	VV	344	2733	0.05%	0.007%
46	5.433	5.427	5.463	VV	308	4233	0.07%	0.011%
47	5.497	5.463	5.517	VV	772	12614	0.22%	0.032%
48	5.533	5.517	5.550	VV	1617	18436	0.32%	0.046%
49	5.574	5.550	5.603	VV	5713	70948	1.25%	0.178%
50	5.606	5.603	5.618	VV	856	7036	0.12%	0.018%
51	5.632	5.618	5.658	VV	1215	14208	0.25%	0.036%
52	5.677	5.658	5.685	VV	365	4406	0.08%	0.011%
53	5.697	5.685	5.708	VV	617	7296	0.13%	0.018%
54	5.718	5.708	5.748	VV	654	10794	0.19%	0.027%
55	5.751	5.748	5.755	VV	438	1534	0.03%	0.004%
56	5.776	5.755	5.803	VV	1051	15535	0.27%	0.039%
57	5.826	5.803	5.841	VV	810	10972	0.19%	0.028%
58	5.851	5.841	5.863	VV	451	4789	0.08%	0.012%
59	5.876	5.863	5.894	VV	857	7536	0.13%	0.019%
60	5.909	5.894	5.925	PV	286	3029	0.05%	0.008%
61	5.930	5.925	5.957	VV	414	5771	0.10%	0.015%
62	5.995	5.957	6.008	VV	647	11215	0.20%	0.028%
63	6.012	6.008	6.015	VV	484	1798	0.03%	0.005%
64	6.022	6.015	6.028	VV	577	3294	0.06%	0.008%
65	6.036	6.028	6.046	VV	525	4615	0.08%	0.012%
66	6.061	6.046	6.065	VV	647	5745	0.10%	0.014%
67	6.087	6.065	6.113	VV	4593	53448	0.94%	0.134%
68	6.129	6.113	6.154	VV	1219	16570	0.29%	0.042%
69	6.172	6.154	6.201	VV	2673	30869	0.54%	0.078%
70	6.206	6.201	6.211	VV	473	2360	0.04%	0.006%
71	6.227	6.211	6.248	VV	1010	16419	0.29%	0.041%
72	6.253	6.248	6.266	VV	723	5212	0.09%	0.013%
73	6.303	6.266	6.332	VV	1044	22704	0.40%	0.057%
74	6.341	6.332	6.353	VV	534	5243	0.09%	0.013%
75	6.366	6.353	6.385	VV	1237	14017	0.25%	0.035%
76	6.390	6.385	6.407	VV	484	4005	0.07%	0.010%
77	6.412	6.407	6.427	PV	200	1481	0.03%	0.004%
78	6.442	6.427	6.452	VV	349	3067	0.05%	0.008%
79	6.455	6.452	6.462	VV	239	1222	0.02%	0.003%
80	6.470	6.462	6.488	VV	285	2944	0.05%	0.007%
81	6.511	6.488	6.545	VV	3352	41128	0.72%	0.103%
82	6.552	6.545	6.562	VV	405	3494	0.06%	0.009%
83	6.596	6.562	6.620	VV	2342	35625	0.63%	0.090%
84	6.632	6.620	6.644	VV	1298	13382	0.24%	0.034%
85	6.660	6.644	6.682	VV	3445	36753	0.65%	0.092%
86	6.694	6.682	6.715	VV	856	10435	0.18%	0.026%
87	6.733	6.715	6.758	VV	1829	19795	0.35%	0.050%
88	6.769	6.758	6.784	VV	476	5083	0.09%	0.013%
89	6.798	6.784	6.810	VV	412	4584	0.08%	0.012%

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90	6.832	6.810	6.860	VV	429	8671	0.15%	0.022%
91	6.868	6.860	6.875	VV	364	2123	0.04%	0.005%
92	6.886	6.875	6.938	VV	438	8994	0.16%	0.023%
93	6.954	6.938	6.974	VV	1334	13830	0.24%	0.035%
94	7.007	6.974	7.039	VV	2193	36984	0.65%	0.093%
95	7.055	7.039	7.064	VV	1917	21887	0.38%	0.055%
96	7.068	7.064	7.101	VV	1642	13723	0.24%	0.035%
97	7.135	7.101	7.159	VV	4578	62638	1.10%	0.158%
98	7.178	7.159	7.187	VV	444	5511	0.10%	0.014%
99	7.193	7.187	7.201	VV	432	2305	0.04%	0.006%
100	7.214	7.201	7.226	PV	391	3850	0.07%	0.010%
101	7.243	7.226	7.252	VV	582	5386	0.09%	0.014%
102	7.276	7.252	7.281	VV	2044	18614	0.33%	0.047%
103	7.294	7.281	7.330	VV	4166	49850	0.88%	0.125%
104	7.364	7.330	7.387	VV	958	20539	0.36%	0.052%
105	7.400	7.387	7.415	VV	1222	13549	0.24%	0.034%
106	7.431	7.415	7.453	VV	1919	24914	0.44%	0.063%
107	7.466	7.453	7.483	VV	902	10272	0.18%	0.026%
108	7.500	7.483	7.508	VV	896	9166	0.16%	0.023%
109	7.525	7.508	7.562	VV	1437	18314	0.32%	0.046%
110	7.586	7.569	7.593	VV	356	3634	0.06%	0.009%
111	7.596	7.593	7.603	VV	359	1617	0.03%	0.004%
112	7.612	7.603	7.624	VV	392	3245	0.06%	0.008%
113	7.637	7.624	7.642	VV	412	2965	0.05%	0.007%
114	7.662	7.642	7.676	VV	1053	13274	0.23%	0.033%
115	7.694	7.676	7.718	VV	1879	24231	0.43%	0.061%
116	7.749	7.718	7.819	VV	592262	5665213	99.60%	14.247%
117	7.842	7.819	7.850	VV	1098	14730	0.26%	0.037%
118	7.860	7.850	7.874	VV	1087	11226	0.20%	0.028%
119	7.886	7.874	7.903	VV	675	9129	0.16%	0.023%
120	7.916	7.903	7.938	VV	581	7244	0.13%	0.018%
121	7.952	7.938	7.981	VV	589	5698	0.10%	0.014%
122	7.996	7.981	8.012	VV	1593	16671	0.29%	0.042%
123	8.018	8.012	8.045	VV	820	10929	0.19%	0.027%
124	8.057	8.045	8.070	VV	408	3798	0.07%	0.010%
125	8.090	8.070	8.105	VV	628	9187	0.16%	0.023%
126	8.115	8.105	8.168	VV	680	13804	0.24%	0.035%
127	8.201	8.168	8.218	VV	909	15512	0.27%	0.039%
128	8.233	8.218	8.248	VV	1897	20722	0.36%	0.052%
129	8.259	8.248	8.280	VV	1380	16427	0.29%	0.041%
130	8.300	8.280	8.326	VV	3131	39300	0.69%	0.099%
131	8.335	8.326	8.343	VV	485	4004	0.07%	0.010%
132	8.366	8.343	8.377	VV	1580	18005	0.32%	0.045%
133	8.393	8.377	8.403	VV	1735	20418	0.36%	0.051%
134	8.414	8.403	8.435	VV	2487	33115	0.58%	0.083%
135	8.448	8.435	8.475	VV	993	14637	0.26%	0.037%
136	8.494	8.475	8.499	VV	930	9568	0.17%	0.024%
137	8.502	8.499	8.519	VV	905	8003	0.14%	0.020%
138	8.534	8.519	8.570	VV	930	12917	0.23%	0.032%
139	8.615	8.570	8.652	VV	346945	3335229	58.64%	8.388%
140	8.666	8.652	8.692	VV	1624	23777	0.42%	0.060%
141	8.714	8.692	8.724	VV	1087	14848	0.26%	0.037%

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142	8.759	8.724	8.770	VV	1323	26898	0.47%	0.068%
143	8.790	8.770	8.800	VV	1550	22662	0.40%	0.057%
144	8.809	8.800	8.822	VV	1241	14056	0.25%	0.035%
145	8.837	8.822	8.846	VV	1361	17413	0.31%	0.044%
146	8.858	8.846	8.878	VV	1528	18980	0.33%	0.048%
147	8.886	8.878	8.892	VV	231	1616	0.03%	0.004%
148	8.902	8.892	8.914	VV	687	6696	0.12%	0.017%
149	8.922	8.914	8.932	VV	502	4303	0.08%	0.011%
150	8.951	8.932	8.968	VV	936	13754	0.24%	0.035%
151	8.982	8.968	8.996	VV	1533	15978	0.28%	0.040%
152	9.020	8.996	9.045	VV	67248	660081	11.60%	1.660%
153	9.053	9.045	9.069	VV	2204	25589	0.45%	0.064%
154	9.075	9.069	9.088	VV	1559	13439	0.24%	0.034%
155	9.109	9.088	9.126	VV	2796	46117	0.81%	0.116%
156	9.139	9.126	9.165	VV	2886	49551	0.87%	0.125%
157	9.174	9.165	9.192	VV	1926	20615	0.36%	0.052%
158	9.206	9.192	9.229	VV	791	9918	0.17%	0.025%
159	9.272	9.242	9.289	VV	928	15083	0.27%	0.038%
160	9.306	9.289	9.325	VV	1078	13756	0.24%	0.035%
161	9.344	9.325	9.373	VV	1070	15151	0.27%	0.038%
162	9.408	9.373	9.438	VV	1301	24439	0.43%	0.061%
163	9.448	9.438	9.463	VV	532	5658	0.10%	0.014%
164	9.489	9.463	9.532	VV	1582	28546	0.50%	0.072%
165	9.570	9.532	9.607	VV	1398	26727	0.47%	0.067%
166	9.620	9.607	9.637	VV	890	11160	0.20%	0.028%
167	9.643	9.637	9.657	VV	697	5954	0.10%	0.015%
168	9.675	9.657	9.688	VV	898	11781	0.21%	0.030%
169	9.698	9.688	9.711	VV	715	8139	0.14%	0.020%
170	9.736	9.711	9.747	VV	5884	64248	1.13%	0.162%
171	9.767	9.747	9.799	VV	77589	780818	13.73%	1.964%
172	9.812	9.799	9.854	VV	1298	23771	0.42%	0.060%
173	9.858	9.854	9.873	VV	329	2395	0.04%	0.006%
174	9.896	9.873	9.930	VV	2169	35046	0.62%	0.088%
175	9.937	9.930	9.950	VV	380	3713	0.07%	0.009%
176	9.973	9.950	9.993	VV	885	14996	0.26%	0.038%
177	10.008	9.993	10.032	VV	577	8398	0.15%	0.021%
178	10.047	10.032	10.053	VV	289	2241	0.04%	0.006%
179	10.090	10.053	10.132	VV	8427	98012	1.72%	0.246%
180	10.136	10.132	10.140	VV	224	1013	0.02%	0.003%
181	10.146	10.140	10.160	VV	242	1945	0.03%	0.005%
182	10.176	10.160	10.188	VV	394	3812	0.07%	0.010%
183	10.239	10.188	10.271	VV	5117	70274	1.24%	0.177%
184	10.287	10.271	10.312	VV	1021	16545	0.29%	0.042%
185	10.322	10.312	10.328	VV	913	7747	0.14%	0.019%
186	10.335	10.328	10.346	VV	970	9254	0.16%	0.023%
187	10.365	10.346	10.396	VV	1059	20576	0.36%	0.052%
188	10.419	10.396	10.439	VV	1738	24762	0.44%	0.062%
189	10.448	10.439	10.457	VV	622	4630	0.08%	0.012%
190	10.486	10.457	10.504	VV	959	19563	0.34%	0.049%
191	10.538	10.504	10.553	VV	2316	35485	0.62%	0.089%
192	10.559	10.553	10.572	VV	916	9338	0.16%	0.023%
193	10.587	10.572	10.603	VV	880	13696	0.24%	0.034%
194	10.630	10.603	10.640	VV	1334	22915	0.40%	0.058%

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195	10.653	10.640	10.669	VV	1733	19955	0.35%	0.050%
196	10.688	10.669	10.726	VV	1605	35697	0.63%	0.090%
197	10.763	10.726	10.800	VV	1308	38675	0.68%	0.097%
198	10.823	10.800	10.838	VV	927	14304	0.25%	0.036%
199	10.855	10.838	10.867	VV	1384	16648	0.29%	0.042%
200	10.888	10.867	10.931	VV	12338	134849	2.37%	0.339%
201	10.960	10.931	10.991	VV	3079	41887	0.74%	0.105%
202	11.000	10.991	11.037	VV	642	9043	0.16%	0.023%
203	11.063	11.037	11.068	PV	695	8184	0.14%	0.021%
204	11.078	11.068	11.102	VV	999	12429	0.22%	0.031%
205	11.134	11.102	11.151	VV	418	8562	0.15%	0.022%
206	11.171	11.151	11.219	VV	1439	24604	0.43%	0.062%
207	11.232	11.219	11.242	VV	348	3278	0.06%	0.008%
208	11.264	11.242	11.292	VV	1009	19291	0.34%	0.049%
209	11.296	11.292	11.302	VV	606	3428	0.06%	0.009%
210	11.331	11.302	11.358	VV	2096	31523	0.55%	0.079%
211	11.379	11.358	11.385	VV	832	8168	0.14%	0.021%
212	11.406	11.385	11.448	VV	1255	32241	0.57%	0.081%
213	11.454	11.448	11.464	VV	214	1816	0.03%	0.005%
214	11.490	11.464	11.510	VV	1858	24837	0.44%	0.062%
215	11.538	11.510	11.549	VV	759	12968	0.23%	0.033%
216	11.574	11.549	11.596	VV	708	10991	0.19%	0.028%
217	11.657	11.596	11.682	PV	520080	5687952	100.00%	14.304%
218	11.687	11.682	11.702	VV	3369	28781	0.51%	0.072%
219	11.719	11.702	11.739	VV	4683	55059	0.97%	0.138%
220	11.747	11.739	11.767	VV	979	14240	0.25%	0.036%
221	11.785	11.767	11.790	VV	1839	20289	0.36%	0.051%
222	11.814	11.790	11.825	VV	2901	51907	0.91%	0.131%
223	11.835	11.825	11.852	VV	3052	35792	0.63%	0.090%
224	11.867	11.852	11.897	VV	2949	37929	0.67%	0.095%
225	11.908	11.897	11.925	VV	410	4099	0.07%	0.010%
226	11.936	11.925	11.947	VV	361	3474	0.06%	0.009%
227	11.996	11.947	12.016	VV	1389	29009	0.51%	0.073%
228	12.048	12.016	12.073	VV	9646	128401	2.26%	0.323%
229	12.089	12.073	12.113	VV	2650	33597	0.59%	0.084%
230	12.157	12.113	12.175	VV	2359	33872	0.60%	0.085%
231	12.219	12.175	12.226	VV	1551	33344	0.59%	0.084%
232	12.254	12.226	12.354	VV	186615	2490379	43.78%	6.263%
233	12.360	12.354	12.378	VV	3349	46128	0.81%	0.116%
234	12.385	12.378	12.393	VV	2930	25177	0.44%	0.063%
235	12.407	12.393	12.419	VV	3212	46232	0.81%	0.116%
236	12.425	12.419	12.457	VV	2773	53865	0.95%	0.135%
237	12.496	12.457	12.517	VV	4100	108288	1.90%	0.272%
238	12.532	12.517	12.559	VV	2990	51937	0.91%	0.131%
239	12.582	12.559	12.603	VV	4723	78878	1.39%	0.198%
240	12.637	12.603	12.672	VV	3691	95077	1.67%	0.239%
241	12.698	12.672	12.748	VV	27939	358660	6.31%	0.902%
242	12.759	12.748	12.783	VV	725	13181	0.23%	0.033%
243	12.794	12.783	12.809	VV	859	11025	0.19%	0.028%
244	12.834	12.809	12.844	VV	1281	19402	0.34%	0.049%
245	12.857	12.844	12.872	VV	1431	18786	0.33%	0.047%
246	12.892	12.872	12.968	VV	2015	64638	1.14%	0.163%

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247	12.996	12.968	13.023	VV	25481	281723	4.95%	0.708%
248	13.080	13.023	13.114	VV	73687	899044	15.81%	2.261%
249	13.137	13.114	13.152	VV	1110	19480	0.34%	0.049%
250	13.169	13.152	13.190	VV	1608	24089	0.42%	0.061%
251	13.202	13.190	13.221	VV	597	8053	0.14%	0.020%
252	13.263	13.221	13.275	VV	1969	33187	0.58%	0.083%
253	13.298	13.275	13.317	VV	5452	73324	1.29%	0.184%
254	13.324	13.317	13.346	VV	1368	16758	0.29%	0.042%
255	13.393	13.346	13.410	VV	2638	62303	1.10%	0.157%
256	13.420	13.410	13.434	VV	2296	29830	0.52%	0.075%
257	13.477	13.434	13.509	VV	64634	865807	15.22%	2.177%
258	13.526	13.509	13.564	VV	17575	310446	5.46%	0.781%
259	13.581	13.564	13.631	VV	7018	159076	2.80%	0.400%
260	13.651	13.631	13.668	VV	2576	48446	0.85%	0.122%
261	13.693	13.668	13.712	VV	3184	65938	1.16%	0.166%
262	13.729	13.712	13.751	VV	3711	59143	1.04%	0.149%
263	13.780	13.751	13.805	VV	4641	85431	1.50%	0.215%
264	13.827	13.805	13.844	VV	3029	53659	0.94%	0.135%
265	13.859	13.844	13.879	VV	3456	50181	0.88%	0.126%
266	13.899	13.879	13.913	VV	2989	41752	0.73%	0.105%
267	13.938	13.913	13.992	VV	18509	246580	4.34%	0.620%
268	14.008	13.992	14.018	VV	634	8455	0.15%	0.021%
269	14.036	14.018	14.055	VV	808	13494	0.24%	0.034%
270	14.065	14.055	14.100	VV	812	15910	0.28%	0.040%
271	14.104	14.100	14.133	VV	599	8735	0.15%	0.022%
272	14.143	14.133	14.148	VV	459	3279	0.06%	0.008%
273	14.169	14.148	14.188	VV	790	12367	0.22%	0.031%
274	14.197	14.188	14.212	VV	563	6252	0.11%	0.016%
275	14.265	14.212	14.290	VV	3046	70686	1.24%	0.178%
276	14.311	14.290	14.347	VV	4030	62129	1.09%	0.156%
277	14.365	14.347	14.374	VV	679	9174	0.16%	0.023%
278	14.391	14.374	14.405	VV	1185	16729	0.29%	0.042%
279	14.419	14.405	14.445	VV	1131	19996	0.35%	0.050%
280	14.492	14.445	14.511	VV	2729	63547	1.12%	0.160%
281	14.516	14.511	14.535	VV	1017	13621	0.24%	0.034%
282	14.557	14.535	14.577	VV	4876	61864	1.09%	0.156%
283	14.612	14.577	14.643	VV	2907	54298	0.95%	0.137%
284	14.658	14.643	14.683	VV	956	12834	0.23%	0.032%
285	14.689	14.683	14.694	VV	759	4270	0.08%	0.011%
286	14.765	14.694	14.810	VV	13754	197940	3.48%	0.498%
287	14.818	14.810	14.835	VV	673	7882	0.14%	0.020%
288	14.864	14.835	14.883	VV	12834	160325	2.82%	0.403%
289	14.905	14.883	14.943	VV	15115	213570	3.75%	0.537%
290	14.956	14.943	14.962	VV	1090	11450	0.20%	0.029%
291	14.970	14.962	14.992	VV	1187	15156	0.27%	0.038%
292	14.995	14.992	15.002	VV	574	3217	0.06%	0.008%
293	15.027	15.002	15.051	VV	2505	38102	0.67%	0.096%
294	15.074	15.051	15.082	VV	524	7723	0.14%	0.019%
295	15.102	15.082	15.138	VV	1046	18467	0.32%	0.046%
296	15.162	15.138	15.193	VV	1142	24542	0.43%	0.062%
297	15.204	15.193	15.213	VV	1133	11793	0.21%	0.030%
298	15.221	15.213	15.260	VV	894	13974	0.25%	0.035%
299	15.308	15.260	15.417	VV	13038	353672	6.22%	0.889%

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300	15.422	15.417	15.426	VV	758	3809	0.07%	0.010%
301	15.465	15.426	15.513	VV	7511	130970	2.30%	0.329%
302	15.535	15.513	15.557	VV	3919	52190	0.92%	0.131%
303	15.572	15.557	15.605	VV	2025	29946	0.53%	0.075%
304	15.620	15.605	15.628	VV	685	8344	0.15%	0.021%
305	15.649	15.628	15.662	VV	1049	17352	0.31%	0.044%
306	15.679	15.662	15.685	VV	1756	18801	0.33%	0.047%
307	15.695	15.685	15.726	VV	1995	33357	0.59%	0.084%
308	15.732	15.726	15.741	VV	467	3929	0.07%	0.010%
309	15.774	15.741	15.798	VV	1371	24322	0.43%	0.061%
310	15.814	15.798	15.819	VV	569	6024	0.11%	0.015%
311	15.823	15.819	15.828	VV	576	2462	0.04%	0.006%
312	15.857	15.828	15.872	VV	1197	22291	0.39%	0.056%
313	15.882	15.872	15.897	VV	1070	14216	0.25%	0.036%
314	15.905	15.897	15.919	VV	868	8988	0.16%	0.023%
315	15.947	15.919	15.986	VV	1986	38818	0.68%	0.098%
316	16.004	15.986	16.032	VV	774	13178	0.23%	0.033%
317	16.037	16.032	16.055	VV	260	1853	0.03%	0.005%
318	16.060	16.055	16.084	VV	245	2580	0.05%	0.006%
319	16.090	16.084	16.100	VV	206	1192	0.02%	0.003%
320	16.138	16.100	16.159	PV	1489	24078	0.42%	0.061%
321	16.169	16.159	16.185	VV	623	6579	0.12%	0.017%
322	16.200	16.185	16.217	VV	810	11597	0.20%	0.029%
323	16.243	16.217	16.265	VV	960	20394	0.36%	0.051%
324	16.281	16.265	16.291	VV	720	8807	0.15%	0.022%
325	16.301	16.291	16.305	VV	646	4474	0.08%	0.011%
326	16.339	16.305	16.372	VV	3474	70585	1.24%	0.178%
327	16.415	16.372	16.434	VV	15901	239191	4.21%	0.602%
328	16.443	16.434	16.475	VV	6620	74189	1.30%	0.187%
329	16.507	16.475	16.528	VV	6107	84646	1.49%	0.213%
330	16.546	16.528	16.602	VV	3256	73912	1.30%	0.186%
331	16.608	16.602	16.636	VV	692	8080	0.14%	0.020%
332	16.642	16.636	16.647	VV	354	1649	0.03%	0.004%
333	16.666	16.647	16.677	VV	697	7842	0.14%	0.020%
334	16.734	16.677	16.763	VV	10657	164918	2.90%	0.415%
335	16.791	16.763	16.836	VV	11193	147447	2.59%	0.371%
336	16.858	16.836	16.865	VV	1042	10594	0.19%	0.027%
337	16.892	16.865	16.921	VV	4446	65380	1.15%	0.164%
338	16.940	16.921	16.956	VV	1570	22064	0.39%	0.055%
339	16.964	16.956	16.992	VV	1091	13781	0.24%	0.035%
340	17.039	16.992	17.082	VV	1204	33769	0.59%	0.085%
341	17.100	17.082	17.117	VV	546	6218	0.11%	0.016%
342	17.158	17.117	17.179	PV	1552	31304	0.55%	0.079%
343	17.188	17.179	17.219	VV	827	12516	0.22%	0.031%
344	17.290	17.237	17.305	VV	2052	47970	0.84%	0.121%
345	17.335	17.305	17.363	VV	2074	49156	0.86%	0.124%
346	17.374	17.363	17.397	VV	1050	16060	0.28%	0.040%
347	17.408	17.397	17.413	VV	772	6397	0.11%	0.016%
348	17.421	17.413	17.429	VV	684	6105	0.11%	0.015%
349	17.444	17.429	17.471	VV	1106	19989	0.35%	0.050%
350	17.492	17.471	17.513	VV	689	10949	0.19%	0.028%
351	17.519	17.513	17.539	VV	401	4815	0.08%	0.012%

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352	17.564	17.539	17.600	VV	512	11178	0.20%	0.028%
353	17.630	17.613	17.645	VV	342	3352	0.06%	0.008%
354	17.665	17.645	17.671	PV	187	1038	0.02%	0.003%
355	17.679	17.671	17.686	VV	232	1563	0.03%	0.004%
356	17.729	17.686	17.747	VV	1531	32977	0.58%	0.083%
357	17.773	17.747	17.802	VV	2590	50629	0.89%	0.127%
358	17.863	17.802	17.900	VV	1646	48489	0.85%	0.122%
359	17.919	17.900	17.935	VV	1438	20125	0.35%	0.051%
360	17.948	17.935	17.974	VV	980	16337	0.29%	0.041%
361	17.996	17.974	18.028	VV	1096	19988	0.35%	0.050%
362	18.062	18.028	18.083	VV	2611	43707	0.77%	0.110%
363	18.089	18.083	18.112	VV	969	14711	0.26%	0.037%
364	18.151	18.112	18.175	VV	13238	249905	4.39%	0.628%
365	18.197	18.175	18.232	VV	7022	115621	2.03%	0.291%
366	18.237	18.232	18.259	VV	1342	13717	0.24%	0.034%
367	18.287	18.259	18.301	VV	2548	38583	0.68%	0.097%
368	18.316	18.301	18.343	VV	2701	41959	0.74%	0.106%
369	18.349	18.343	18.365	VV	869	8647	0.15%	0.022%
370	18.406	18.365	18.433	VV	9265	121837	2.14%	0.306%
371	18.455	18.433	18.465	VV	785	11837	0.21%	0.030%
372	18.491	18.465	18.504	VV	1124	19807	0.35%	0.050%
373	18.535	18.504	18.557	VV	2197	40176	0.71%	0.101%
374	18.603	18.557	18.657	VV	2903	81250	1.43%	0.204%
375	18.663	18.657	18.678	VV	565	5592	0.10%	0.014%
376	18.707	18.678	18.737	VV	2184	47341	0.83%	0.119%
377	18.745	18.737	18.758	VV	1099	12815	0.23%	0.032%
378	18.767	18.758	18.777	VV	954	9856	0.17%	0.025%
379	18.779	18.777	18.787	VV	932	5160	0.09%	0.013%
380	18.794	18.787	18.798	VV	990	6191	0.11%	0.016%
381	18.835	18.798	18.855	VV	1365	37089	0.65%	0.093%
382	18.860	18.855	18.867	VV	1043	6999	0.12%	0.018%
383	18.874	18.867	18.882	VV	1067	8659	0.15%	0.022%
384	18.897	18.882	18.906	VV	1180	15738	0.28%	0.040%
385	18.916	18.906	18.926	VV	1418	14432	0.25%	0.036%
386	18.966	18.926	18.992	VV	6629	159580	2.81%	0.401%
387	18.996	18.992	19.060	VV	5055	135916	2.39%	0.342%
388	19.095	19.060	19.130	VV	2342	86030	1.51%	0.216%
389	19.141	19.130	19.156	VV	1756	25303	0.44%	0.064%
390	19.185	19.156	19.193	VV	2019	39017	0.69%	0.098%
391	19.197	19.193	19.220	VV	2104	26928	0.47%	0.068%
392	19.250	19.220	19.278	VV	2077	61046	1.07%	0.154%
393	19.294	19.278	19.301	VV	2011	24175	0.43%	0.061%
394	19.306	19.301	19.311	VV	1777	10161	0.18%	0.026%
395	19.324	19.311	19.328	VV	1857	18368	0.32%	0.046%
396	19.337	19.328	19.347	VV	1873	19393	0.34%	0.049%
397	19.381	19.347	19.406	VV	3522	90907	1.60%	0.229%
398	19.428	19.406	19.435	VV	2363	39666	0.70%	0.100%
399	19.444	19.435	19.448	VV	2338	17497	0.31%	0.044%
400	19.489	19.448	19.522	VV	3994	124520	2.19%	0.313%
401	19.558	19.522	19.582	VV	6117	137590	2.42%	0.346%
402	19.620	19.582	19.653	VV	5246	164896	2.90%	0.415%
403	19.676	19.653	19.698	VV	3790	95024	1.67%	0.239%
404	19.714	19.698	19.727	VV	3755	60247	1.06%	0.152%

rteres

405	19.754	19.727	19.778	VV	5458	138049	2.43%	0.347%
406	19.801	19.778	19.818	VV	3743	82950	1.46%	0.209%
407	19.837	19.818	19.864	VV	3996	104014	1.83%	0.262%
408	19.869	19.864	19.874	VV	3663	22881	0.40%	0.058%
409	19.932	19.874	19.960	VV	7517	269115	4.73%	0.677%
410	20.029	19.960	20.056	VV	7005	313616	5.51%	0.789%
411	20.070	20.056	20.090	VV	5409	103528	1.82%	0.260%
412	20.120	20.090	20.142	VV	6161	173181	3.04%	0.436%
413	20.223	20.142	20.230	VV	5834	290386	5.11%	0.730%
414	20.283	20.230	20.315	VV	7215	311323	5.47%	0.783%
415	20.364	20.315	20.369	VV	6537	198605	3.49%	0.499%
416	20.372	20.369	20.381	VV	6468	44630	0.78%	0.112%
417	20.386	20.381	20.403	VV	6634	88682	1.56%	0.223%
418	20.416	20.403	20.427	VV	6759	91902	1.62%	0.231%
419	20.470	20.427	20.526	VV	7558	419802	7.38%	1.056%
420	20.535	20.526	20.551	VV	7126	104166	1.83%	0.262%
421	20.567	20.551	20.592	VV	7021	171323	3.01%	0.431%
422	20.607	20.592	20.627	VV	6879	142947	2.51%	0.359%
423	20.656	20.627	20.695	VV	7118	274016	4.82%	0.689%
424	20.703	20.695	20.723	VV	6377	104943	1.84%	0.264%
425	20.729	20.723	20.763	VV	6281	147170	2.59%	0.370%
426	20.771	20.763	20.808	VV	6170	160192	2.82%	0.403%
427	20.810	20.808	20.825	VV	5888	56469	0.99%	0.142%
428	20.861	20.825	20.888	VV	5965	217177	3.82%	0.546%
429	20.906	20.888	20.910	VV	5401	67194	1.18%	0.169%
430	20.922	20.910	20.932	VV	5670	73802	1.30%	0.186%
431	20.935	20.932	20.946	VV	5552	45714	0.80%	0.115%
432	20.950	20.946	20.955	VV	5263	28713	0.50%	0.072%
433	20.958	20.955	20.992	VV	5255	109611	1.93%	0.276%
434	20.997	20.992	21.015	VV	4772	63575	1.12%	0.160%
435	21.022	21.015	21.032	VV	4768	46719	0.82%	0.117%
436	21.038	21.032	21.059	VV	4693	74774	1.31%	0.188%
437	21.062	21.059	21.077	VV	4476	46875	0.82%	0.118%
438	21.082	21.077	21.088	VV	4277	27685	0.49%	0.070%
439	21.098	21.088	21.103	VV	4394	39957	0.70%	0.100%
440	21.107	21.103	21.110	VV	4345	17591	0.31%	0.044%
441	21.138	21.110	21.172	VV	4503	158382	2.78%	0.398%
442	21.179	21.172	21.189	VV	4098	41861	0.74%	0.105%
443	21.196	21.189	21.202	VV	4050	29276	0.51%	0.074%
444	21.225	21.202	21.231	VV	4063	69506	1.22%	0.175%
445	21.234	21.231	21.241	VV	3880	22455	0.39%	0.056%
446	21.252	21.241	21.258	VV	3675	37664	0.66%	0.095%
447	21.309	21.258	21.330	VV	4801	181512	3.19%	0.456%
448	21.344	21.330	21.349	VV	3799	43136	0.76%	0.108%
449	21.354	21.349	21.379	VV	3677	62059	1.09%	0.156%
450	21.383	21.379	21.400	VV	3288	40297	0.71%	0.101%
451	21.403	21.400	21.420	VV	3107	36158	0.64%	0.091%
452	21.434	21.420	21.438	VV	2952	31451	0.55%	0.079%
453	21.443	21.438	21.456	VV	2979	30854	0.54%	0.078%
454	21.472	21.456	21.501	VV	3079	75646	1.33%	0.190%
455	21.519	21.501	21.551	VV	2977	81303	1.43%	0.204%
456	21.561	21.551	21.568	VV	2419	23479	0.41%	0.059%

rteres

457	21.608	21.568	21.642	VV	3016	109432	1.92%	0.275%
458	21.682	21.642	21.712	VV	3027	95678	1.68%	0.241%
459	21.733	21.712	21.757	VV	2160	51866	0.91%	0.130%
460	21.761	21.757	21.764	VV	1928	7637	0.13%	0.019%
461	21.784	21.764	21.831	VV	2043	72940	1.28%	0.183%
462	21.834	21.831	21.854	VV	1814	23200	0.41%	0.058%
463	21.872	21.854	21.880	VV	1449	21527	0.38%	0.054%
464	21.887	21.880	21.900	VV	1535	16455	0.29%	0.041%
465	21.903	21.900	21.915	VV	1430	11559	0.20%	0.029%
466	21.929	21.915	21.954	VV	1511	28695	0.50%	0.072%
467	21.970	21.954	21.975	VV	1174	13498	0.24%	0.034%
468	21.980	21.975	21.987	VV	1117	8000	0.14%	0.020%
469	21.990	21.987	22.015	VV	1185	16588	0.29%	0.042%
470	22.032	22.015	22.055	VV	1056	22012	0.39%	0.055%
471	22.064	22.055	22.121	VV	842	20326	0.36%	0.051%
472	22.144	22.121	22.170	PV	400	5134	0.09%	0.013%

Sum of corrected areas: 39764044

Aromatic EPH 040725.M Fri Apr 11 01:40:40 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068569.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 03:09
Operator : YP/AJ
Sample : Q1746-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB02

Integration File: autoint1.e
Quant Time: Apr 11 04:38:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.150	5440453	58.566 ug/ml
Spiked Amount 50.000		Recovery = 117.13%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

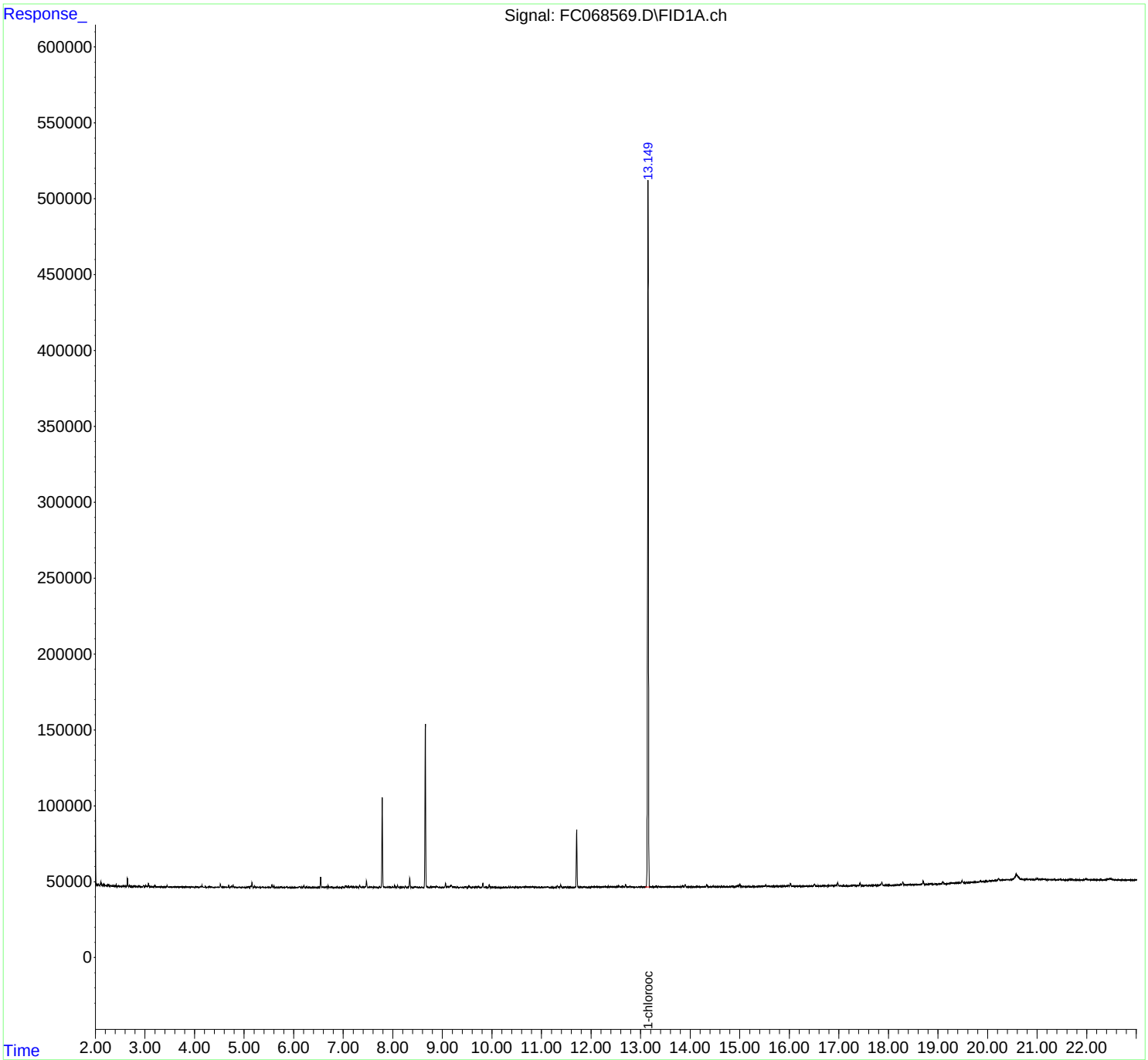
Sample Results: **FC068569.D**

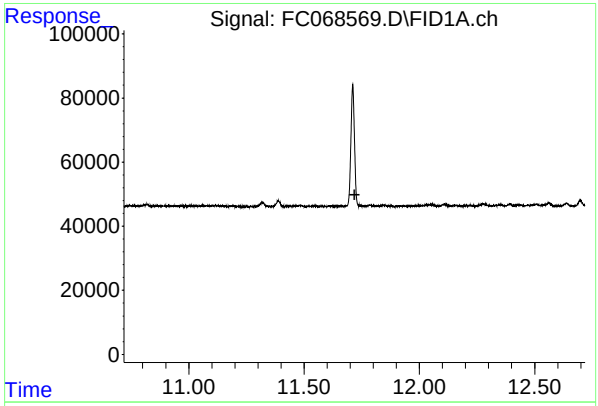
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068569.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 03:09
Operator : YP/AJ
Sample : Q1746-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB02

Integration File: autoint1.e
Quant Time: Apr 11 04:38:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

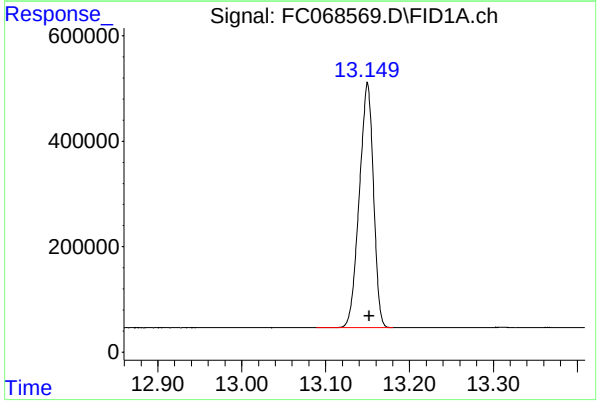




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-149-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.150 min
Delta R.T.: -0.002 min
Response: 5440453
Conc: 58.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068569.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 03:09
Sample : Q1746-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.417	2.355	2.491	BV	873	7772	0.14%	0.064%
2	2.571	2.491	2.625	PV	455	7476	0.14%	0.061%
3	2.647	2.625	2.667	VV	5510	43044	0.79%	0.352%
4	2.683	2.667	2.760	VV	636	8838	0.16%	0.072%
5	2.777	2.760	2.793	VV	221	1783	0.03%	0.015%
6	2.814	2.793	2.863	VV	286	3795	0.07%	0.031%
7	2.879	2.863	2.951	VV	230	3681	0.07%	0.030%
8	2.969	2.951	2.999	VV	928	12466	0.23%	0.102%
9	3.018	2.999	3.051	VV	864	9136	0.17%	0.075%
10	3.070	3.051	3.112	VV	2307	21309	0.39%	0.174%
11	3.152	3.112	3.170	VV	211	3380	0.06%	0.028%
12	3.198	3.170	3.241	VV	661	9102	0.17%	0.075%
13	3.270	3.241	3.282	VV	149	2163	0.04%	0.018%
14	3.294	3.282	3.333	VV	102	2103	0.04%	0.017%
15	3.346	3.333	3.368	VV	103	998	0.02%	0.008%
16	3.374	3.368	3.389	PV	130	654	0.01%	0.005%
17	3.413	3.389	3.425	VV	131	1384	0.03%	0.011%
18	3.447	3.425	3.527	VV	930	11511	0.21%	0.094%
19	3.550	3.527	3.576	PV	153	1787	0.03%	0.015%
20	3.600	3.576	3.618	VV	517	5058	0.09%	0.041%
21	3.651	3.618	3.677	VV	203	3749	0.07%	0.031%
22	3.688	3.677	3.699	VV	83	922	0.02%	0.008%
23	3.727	3.699	3.745	VV	276	3385	0.06%	0.028%
24	3.773	3.745	3.801	VV	329	5608	0.10%	0.046%
25	3.823	3.801	3.853	VV	345	5188	0.10%	0.042%
26	3.860	3.853	3.879	VV	124	1052	0.02%	0.009%
27	3.893	3.879	3.930	VV	94	1319	0.02%	0.011%
28	3.947	3.930	3.988	VV	170	3245	0.06%	0.027%
29	4.018	3.988	4.083	VV	233	6268	0.11%	0.051%
30	4.121	4.083	4.133	VV	587	7022	0.13%	0.057%
31	4.149	4.133	4.169	VV	1358	12359	0.23%	0.101%
32	4.217	4.169	4.251	VV	410	5437	0.10%	0.045%
33	4.297	4.251	4.318	VV	779	11849	0.22%	0.097%
34	4.331	4.318	4.388	VV	206	4598	0.08%	0.038%
35	4.401	4.388	4.497	VV	120	5883	0.11%	0.048%
36	4.522	4.497	4.545	VV	2280	22526	0.41%	0.184%

rteres

37	4.567	4.545	4.581	VV	283	3825	0.07%	0.031%
38	4.637	4.581	4.656	VV	284	7129	0.13%	0.058%
39	4.691	4.656	4.714	VV	1117	13822	0.25%	0.113%
40	4.747	4.714	4.761	VV	1040	12742	0.23%	0.104%
41	4.777	4.761	4.797	VV	1667	16301	0.30%	0.133%
42	4.808	4.797	4.874	VV	186	5107	0.09%	0.042%
43	4.897	4.874	4.924	VV	296	5264	0.10%	0.043%
44	4.936	4.924	4.958	VV	206	2331	0.04%	0.019%
45	4.968	4.958	4.990	VV	156	1321	0.02%	0.011%
46	5.002	4.990	5.022	PV	136	1285	0.02%	0.011%
47	5.049	5.022	5.062	VV	206	2124	0.04%	0.017%
48	5.082	5.062	5.109	VV	231	3298	0.06%	0.027%
49	5.133	5.109	5.144	PV	806	8478	0.16%	0.069%
50	5.159	5.144	5.186	VV	3347	35622	0.65%	0.292%
51	5.215	5.186	5.241	VV	662	10057	0.18%	0.082%
52	5.267	5.241	5.305	VV	346	5796	0.11%	0.047%
53	5.316	5.305	5.335	VV	163	2029	0.04%	0.017%
54	5.352	5.335	5.373	VV	259	4111	0.08%	0.034%
55	5.387	5.373	5.426	VV	347	6481	0.12%	0.053%
56	5.439	5.426	5.473	VV	175	3684	0.07%	0.030%
57	5.480	5.473	5.500	VV	129	1556	0.03%	0.013%
58	5.529	5.500	5.540	VV	178	3187	0.06%	0.026%
59	5.562	5.540	5.582	VV	2093	21101	0.39%	0.173%
60	5.604	5.582	5.626	VV	1316	14454	0.26%	0.118%
61	5.635	5.626	5.648	VV	143	1560	0.03%	0.013%
62	5.660	5.648	5.710	VV	353	5671	0.10%	0.046%
63	5.751	5.710	5.777	VV	341	7568	0.14%	0.062%
64	5.788	5.777	5.794	VV	80	668	0.01%	0.005%
65	5.809	5.794	5.824	VV	155	2173	0.04%	0.018%
66	5.858	5.824	5.891	VV	331	7632	0.14%	0.062%
67	5.911	5.891	5.998	VV	236	7400	0.14%	0.061%
68	6.022	5.998	6.040	PV	212	2801	0.05%	0.023%
69	6.063	6.040	6.081	VV	208	2938	0.05%	0.024%
70	6.120	6.081	6.146	VV	841	12758	0.23%	0.104%
71	6.162	6.146	6.183	VV	532	5974	0.11%	0.049%
72	6.204	6.183	6.232	VV	1009	12195	0.22%	0.100%
73	6.266	6.232	6.288	VV	543	8379	0.15%	0.069%
74	6.335	6.288	6.365	VV	291	8964	0.16%	0.073%
75	6.386	6.365	6.418	VV	234	5045	0.09%	0.041%
76	6.430	6.418	6.452	VV	222	2683	0.05%	0.022%
77	6.481	6.452	6.498	VV	149	2801	0.05%	0.023%
78	6.513	6.498	6.525	VV	168	2145	0.04%	0.018%
79	6.545	6.525	6.585	VV	6985	70761	1.30%	0.579%
80	6.591	6.585	6.613	VV	255	3268	0.06%	0.027%
81	6.631	6.613	6.651	VV	497	7037	0.13%	0.058%
82	6.665	6.651	6.677	VV	456	4976	0.09%	0.041%
83	6.695	6.677	6.717	VV	1410	16348	0.30%	0.134%
84	6.730	6.717	6.750	VV	380	5990	0.11%	0.049%
85	6.768	6.750	6.808	VV	606	9303	0.17%	0.076%
86	6.821	6.808	6.853	VV	226	4008	0.07%	0.033%
87	6.874	6.853	6.901	VV	345	6441	0.12%	0.053%
88	6.913	6.901	6.932	VV	214	3386	0.06%	0.028%
89	6.941	6.932	6.970	VV	235	3844	0.07%	0.031%

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90	6.992	6.970	7.018	VV	571	9483	0.17%	0.078%
91	7.045	7.018	7.078	VV	990	22127	0.41%	0.181%
92	7.104	7.078	7.131	VV	960	17412	0.32%	0.143%
93	7.169	7.131	7.195	VV	942	22741	0.42%	0.186%
94	7.207	7.195	7.231	VV	637	7104	0.13%	0.058%
95	7.250	7.231	7.264	VV	601	6838	0.13%	0.056%
96	7.278	7.264	7.301	VV	339	5405	0.10%	0.044%
97	7.332	7.301	7.373	VV	1685	25435	0.47%	0.208%
98	7.391	7.373	7.421	VV	391	8744	0.16%	0.072%
99	7.437	7.421	7.448	VV	561	6308	0.12%	0.052%
100	7.470	7.448	7.497	VV	4418	47979	0.88%	0.393%
101	7.538	7.497	7.547	VV	419	7885	0.14%	0.065%
102	7.562	7.547	7.579	VV	607	7590	0.14%	0.062%
103	7.588	7.579	7.602	VV	307	3307	0.06%	0.027%
104	7.645	7.602	7.668	VV	435	10391	0.19%	0.085%
105	7.683	7.668	7.703	VV	201	3465	0.06%	0.028%
106	7.733	7.703	7.757	VV	892	12028	0.22%	0.098%
107	7.787	7.757	7.855	VV	58632	570205	10.45%	4.669%
108	7.925	7.855	7.940	VV	481	14333	0.26%	0.117%
109	7.952	7.940	7.978	VV	466	6265	0.11%	0.051%
110	7.993	7.978	8.013	VV	546	7277	0.13%	0.060%
111	8.038	8.013	8.074	VV	1417	18489	0.34%	0.151%
112	8.095	8.074	8.118	VV	1347	15476	0.28%	0.127%
113	8.130	8.118	8.145	VV	165	2698	0.05%	0.022%
114	8.165	8.145	8.218	VV	525	9630	0.18%	0.079%
115	8.249	8.218	8.281	VV	717	10838	0.20%	0.089%
116	8.342	8.281	8.418	VV	6266	76887	1.41%	0.630%
117	8.441	8.418	8.474	VV	480	11626	0.21%	0.095%
118	8.493	8.474	8.523	VV	370	5773	0.11%	0.047%
119	8.535	8.523	8.560	VV	284	3404	0.06%	0.028%
120	8.578	8.560	8.606	VV	390	4739	0.09%	0.039%
121	8.657	8.606	8.731	VV	106493	1056596	19.37%	8.652%
122	8.762	8.731	8.780	VV	419	9556	0.18%	0.078%
123	8.806	8.780	8.817	VV	518	8913	0.16%	0.073%
124	8.833	8.817	8.863	VV	554	11124	0.20%	0.091%
125	8.881	8.863	8.924	VV	865	17778	0.33%	0.146%
126	8.946	8.924	8.974	VV	339	5186	0.10%	0.042%
127	8.998	8.974	9.018	VV	216	3598	0.07%	0.029%
128	9.066	9.018	9.085	VV	3003	35537	0.65%	0.291%
129	9.102	9.085	9.137	VV	791	15939	0.29%	0.131%
130	9.165	9.137	9.174	VV	1406	19992	0.37%	0.164%
131	9.184	9.174	9.212	VV	1451	18935	0.35%	0.155%
132	9.220	9.212	9.235	VV	407	3597	0.07%	0.029%
133	9.255	9.235	9.274	VV	494	5953	0.11%	0.049%
134	9.303	9.274	9.334	VV	378	5026	0.09%	0.041%
135	9.407	9.334	9.434	PV	293	10692	0.20%	0.088%
136	9.467	9.434	9.509	VV	473	12004	0.22%	0.098%
137	9.535	9.509	9.569	VV	895	15234	0.28%	0.125%
138	9.586	9.569	9.602	VV	370	4841	0.09%	0.040%
139	9.610	9.602	9.650	VV	221	4286	0.08%	0.035%
140	9.673	9.650	9.702	VV	465	7734	0.14%	0.063%
141	9.725	9.702	9.761	VV	990	12456	0.23%	0.102%

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142	9.785	9.761	9.798	VV	211	2928	0.05%	0.024%
143	9.818	9.798	9.844	VV	2964	31606	0.58%	0.259%
144	9.865	9.844	9.913	VV	373	7100	0.13%	0.058%
145	9.945	9.913	9.973	VV	2039	23959	0.44%	0.196%
146	9.987	9.973	10.000	VV	151	1872	0.03%	0.015%
147	10.015	10.000	10.024	VV	310	3105	0.06%	0.025%
148	10.032	10.024	10.068	VV	274	5046	0.09%	0.041%
149	10.093	10.068	10.109	VV	197	3123	0.06%	0.026%
150	10.118	10.109	10.182	VV	145	3660	0.07%	0.030%
151	10.224	10.182	10.241	PV	205	3544	0.06%	0.029%
152	10.269	10.241	10.304	VV	260	7221	0.13%	0.059%
153	10.338	10.304	10.358	VV	538	10016	0.18%	0.082%
154	10.378	10.358	10.399	VV	423	7007	0.13%	0.057%
155	10.430	10.399	10.455	VV	329	7500	0.14%	0.061%
156	10.475	10.455	10.518	VV	237	6251	0.11%	0.051%
157	10.551	10.518	10.561	VV	247	5295	0.10%	0.043%
158	10.575	10.561	10.600	VV	337	6204	0.11%	0.051%
159	10.632	10.600	10.650	VV	406	8807	0.16%	0.072%
160	10.684	10.650	10.721	VV	691	16168	0.30%	0.132%
161	10.745	10.721	10.773	VV	360	8622	0.16%	0.071%
162	10.817	10.773	10.858	VV	655	17682	0.32%	0.145%
163	10.865	10.858	10.927	VV	257	8536	0.16%	0.070%
164	10.942	10.927	10.983	VV	263	6044	0.11%	0.049%
165	11.004	10.983	11.042	VV	292	7722	0.14%	0.063%
166	11.060	11.042	11.071	VV	260	3471	0.06%	0.028%
167	11.082	11.071	11.098	VV	302	4202	0.08%	0.034%
168	11.113	11.098	11.173	VV	402	11138	0.20%	0.091%
169	11.191	11.173	11.209	VV	244	3347	0.06%	0.027%
170	11.220	11.209	11.237	VV	122	1363	0.02%	0.011%
171	11.248	11.237	11.262	VV	107	878	0.02%	0.007%
172	11.272	11.262	11.279	VV	100	569	0.01%	0.005%
173	11.319	11.279	11.354	VV	1318	18637	0.34%	0.153%
174	11.388	11.354	11.416	VV	1803	23388	0.43%	0.192%
175	11.484	11.416	11.508	VV	374	10375	0.19%	0.085%
176	11.521	11.508	11.534	VV	116	1382	0.03%	0.011%
177	11.547	11.534	11.596	VV	251	3991	0.07%	0.033%
178	11.624	11.596	11.647	VV	177	2882	0.05%	0.024%
179	11.711	11.647	11.761	PV	38029	416147	7.63%	3.408%
180	11.784	11.761	11.828	VV	399	9604	0.18%	0.079%
181	11.845	11.828	11.892	VV	437	9616	0.18%	0.079%
182	11.910	11.892	11.947	VV	113	2774	0.05%	0.023%
183	11.986	11.947	12.000	VV	214	4868	0.09%	0.040%
184	12.051	12.000	12.084	VV	572	17315	0.32%	0.142%
185	12.109	12.084	12.135	VV	643	10216	0.19%	0.084%
186	12.157	12.135	12.176	VV	368	5824	0.11%	0.048%
187	12.214	12.176	12.244	VV	282	8291	0.15%	0.068%
188	12.280	12.244	12.311	VV	682	15124	0.28%	0.124%
189	12.352	12.311	12.373	VV	501	10779	0.20%	0.088%
190	12.393	12.373	12.410	VV	731	8403	0.15%	0.069%
191	12.426	12.410	12.457	VV	389	7975	0.15%	0.065%
192	12.508	12.457	12.531	VV	578	15189	0.28%	0.124%
193	12.560	12.531	12.591	VV	1006	16012	0.29%	0.131%
194	12.597	12.591	12.608	VV	113	1036	0.02%	0.008%

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195	12.638	12.608	12.671	VV	989	13202	0.24%	0.108%
196	12.698	12.671	12.751	VV	1797	23870	0.44%	0.195%
197	12.783	12.751	12.806	VV	778	12769	0.23%	0.105%
198	12.818	12.806	12.893	VV	230	4645	0.09%	0.038%
199	12.908	12.893	12.940	VV	121	1282	0.02%	0.010%
200	12.958	12.940	13.008	VV	165	5088	0.09%	0.042%
201	13.025	13.008	13.039	VV	198	2061	0.04%	0.017%
202	13.150	13.039	13.184	VV	463573	5454839	100.00%	44.667%
203	13.199	13.184	13.234	VV	296	6277	0.12%	0.051%
204	13.237	13.234	13.258	VV	229	2236	0.04%	0.018%
205	13.262	13.258	13.269	VV	192	1133	0.02%	0.009%
206	13.311	13.269	13.343	VV	650	14173	0.26%	0.116%
207	13.365	13.343	13.405	VV	443	10324	0.19%	0.085%
208	13.424	13.405	13.481	VV	239	8450	0.15%	0.069%
209	13.515	13.481	13.554	VV	322	10188	0.19%	0.083%
210	13.577	13.554	13.634	VV	284	11124	0.20%	0.091%
211	13.660	13.634	13.670	VV	210	3510	0.06%	0.029%
212	13.717	13.670	13.729	VV	253	6471	0.12%	0.053%
213	13.748	13.729	13.813	VV	318	8916	0.16%	0.073%
214	13.846	13.813	13.872	VV	929	15680	0.29%	0.128%
215	13.898	13.872	13.948	VV	1620	24309	0.45%	0.199%
216	13.955	13.948	13.969	VV	149	1614	0.03%	0.013%
217	13.978	13.969	14.033	VV	121	2340	0.04%	0.019%
218	14.043	14.033	14.061	VV	91	1138	0.02%	0.009%
219	14.079	14.061	14.088	VV	87	941	0.02%	0.008%
220	14.118	14.088	14.228	PV	216	9127	0.17%	0.075%
221	14.232	14.228	14.255	VV	171	1604	0.03%	0.013%
222	14.265	14.255	14.275	VV	108	935	0.02%	0.008%
223	14.290	14.275	14.304	VV	184	1777	0.03%	0.015%
224	14.335	14.304	14.379	VV	1571	23184	0.43%	0.190%
225	14.391	14.379	14.422	VV	171	2810	0.05%	0.023%
226	14.462	14.422	14.508	VV	331	7134	0.13%	0.058%
227	14.532	14.508	14.576	VV	142	4248	0.08%	0.035%
228	14.597	14.576	14.648	VV	194	5545	0.10%	0.045%
229	14.656	14.648	14.694	VV	144	3261	0.06%	0.027%
230	14.719	14.694	14.741	VV	168	3050	0.06%	0.025%
231	14.779	14.741	14.804	VV	175	4736	0.09%	0.039%
232	14.812	14.804	14.819	VV	210	1418	0.03%	0.012%
233	14.841	14.819	14.875	VV	358	6097	0.11%	0.050%
234	14.884	14.875	14.902	VV	98	990	0.02%	0.008%
235	14.909	14.902	14.914	VV	70	383	0.01%	0.003%
236	14.959	14.914	14.977	VV	763	13820	0.25%	0.113%
237	15.002	14.977	15.030	VV	1901	27025	0.50%	0.221%
238	15.046	15.030	15.098	VV	249	5066	0.09%	0.041%
239	15.108	15.098	15.158	VV	91	1519	0.03%	0.012%
240	15.178	15.158	15.187	VV	119	1694	0.03%	0.014%
241	15.199	15.187	15.224	VV	156	2585	0.05%	0.021%
242	15.232	15.224	15.291	VV	147	3377	0.06%	0.028%
243	15.322	15.291	15.356	VV	104	2275	0.04%	0.019%
244	15.387	15.356	15.399	VV	293	3720	0.07%	0.030%
245	15.424	15.399	15.471	VV	191	5945	0.11%	0.049%
246	15.524	15.471	15.568	VV	1032	18482	0.34%	0.151%

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247	15.574	15.568	15.633	VV	250	4397	0.08%	0.036%
248	15.703	15.633	15.751	VV	234	9434	0.17%	0.077%
249	15.757	15.751	15.774	VV	237	1937	0.04%	0.016%
250	15.796	15.774	15.808	VV	149	2277	0.04%	0.019%
251	15.850	15.808	15.924	VV	252	11920	0.22%	0.098%
252	15.941	15.924	15.960	VV	215	3217	0.06%	0.026%
253	15.984	15.960	16.001	VV	528	8021	0.15%	0.066%
254	16.024	16.001	16.053	VV	1952	27927	0.51%	0.229%
255	16.078	16.053	16.121	VV	220	5726	0.10%	0.047%
256	16.131	16.121	16.150	VV	96	1197	0.02%	0.010%
257	16.165	16.150	16.177	PV	94	1117	0.02%	0.009%
258	16.247	16.177	16.273	VV	236	7476	0.14%	0.061%
259	16.277	16.273	16.294	VV	115	857	0.02%	0.007%
260	16.354	16.294	16.364	PV	148	3994	0.07%	0.033%
261	16.374	16.364	16.426	VV	202	4490	0.08%	0.037%
262	16.441	16.426	16.455	VV	158	1874	0.03%	0.015%
263	16.508	16.455	16.571	VV	1283	25925	0.48%	0.212%
264	16.590	16.571	16.628	VV	324	6577	0.12%	0.054%
265	16.664	16.628	16.691	VV	302	8145	0.15%	0.067%
266	16.723	16.691	16.774	VV	282	11629	0.21%	0.095%
267	16.813	16.774	16.841	VV	306	8299	0.15%	0.068%
268	16.873	16.841	16.891	VV	321	7773	0.14%	0.064%
269	16.942	16.891	16.953	VV	487	11027	0.20%	0.090%
270	16.977	16.953	17.014	VV	2051	29783	0.55%	0.244%
271	17.028	17.014	17.071	VV	279	4843	0.09%	0.040%
272	17.087	17.071	17.115	VV	193	2432	0.04%	0.020%
273	17.140	17.115	17.151	VV	136	1822	0.03%	0.015%
274	17.168	17.151	17.191	VV	133	1754	0.03%	0.014%
275	17.199	17.191	17.214	VV	97	903	0.02%	0.007%
276	17.251	17.214	17.278	PV	149	3316	0.06%	0.027%
277	17.306	17.278	17.341	VV	358	6953	0.13%	0.057%
278	17.373	17.341	17.397	VV	136	3460	0.06%	0.028%
279	17.428	17.397	17.457	VV	1678	23514	0.43%	0.193%
280	17.472	17.457	17.492	PV	140	1547	0.03%	0.013%
281	17.512	17.492	17.534	VV	152	2280	0.04%	0.019%
282	17.555	17.534	17.591	VV	143	3978	0.07%	0.033%
283	17.600	17.591	17.615	VV	210	1831	0.03%	0.015%
284	17.624	17.615	17.631	VV	86	906	0.02%	0.007%
285	17.638	17.631	17.684	VV	135	3040	0.06%	0.025%
286	17.714	17.684	17.736	VV	187	3634	0.07%	0.030%
287	17.745	17.736	17.751	VV	105	633	0.01%	0.005%
288	17.770	17.751	17.788	VV	146	2122	0.04%	0.017%
289	17.866	17.788	17.901	VV	2150	37617	0.69%	0.308%
290	17.908	17.901	17.925	VV	136	1244	0.02%	0.010%
291	17.953	17.925	17.985	VV	195	4807	0.09%	0.039%
292	18.022	17.985	18.107	VV	191	8278	0.15%	0.068%
293	18.150	18.107	18.171	PV	112	4525	0.08%	0.037%
294	18.289	18.171	18.345	VV	2196	41313	0.76%	0.338%
295	18.424	18.345	18.475	VV	152	6727	0.12%	0.055%
296	18.560	18.475	18.622	PV	309	10966	0.20%	0.090%
297	18.699	18.622	18.751	VV	1983	37374	0.69%	0.306%
298	18.865	18.751	18.906	VV	147	11916	0.22%	0.098%
299	18.961	18.906	18.983	VV	214	6605	0.12%	0.054%

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300	19.097	18.983	19.165	VV	1428	39015	0.72%	0.319%
301	19.484	19.165	19.548	VV	2004	122248	2.24%	1.001%
302	19.792	19.548	19.811	VV	864	110540	2.03%	0.905%
303	19.861	19.811	19.895	VV	1556	53264	0.98%	0.436%
304	20.045	19.895	20.062	VV	1398	115774	2.12%	0.948%
305	20.137	20.062	20.160	VV	1619	84885	1.56%	0.695%
306	20.225	20.160	20.258	VV	2713	105680	1.94%	0.865%
307	20.392	20.258	20.438	VV	1977	192064	3.52%	1.573%
308	20.579	20.438	20.745	VV	5020	485029	8.89%	3.972%
309	20.788	20.745	20.948	VV	1790	190134	3.49%	1.557%
310	21.002	20.948	21.128	VV	2139	164386	3.01%	1.346%
311	21.143	21.128	21.315	VV	1357	131150	2.40%	1.074%
312	21.363	21.315	21.418	VV	1161	61068	1.12%	0.500%
313	21.467	21.418	21.508	VV	1040	50662	0.93%	0.415%
314	21.529	21.508	21.578	VV	887	34941	0.64%	0.286%
315	21.681	21.578	21.802	VV	846	96548	1.77%	0.791%
316	21.816	21.802	21.861	VV	535	17124	0.31%	0.140%
317	21.869	21.861	21.895	VV	469	8467	0.16%	0.069%
318	21.982	21.895	22.177	VV	922	74897	1.37%	0.613%
319	22.193	22.177	22.218	VV	287	4819	0.09%	0.039%
320	22.258	22.218	22.356	VV	218	11397	0.21%	0.093%

Sum of corrected areas: 12212183

Aliphatic EPH 040925.M Fri Apr 11 04:59:57 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049278.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 20:21
Operator : YP/AJ
Sample : Q1746-03
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB02

Integration File: autoint1.e
Quant Time: Apr 11 01:05:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.750	5841715	39.436 ug/ml
Spiked Amount 50.000		Recovery =	78.87%
6) S 2-Flurobiphenyl (SURR)	8.614	3261837	31.978 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	63.96%
11) S ortho-Terphenyl (SURR)	11.658	7525191	42.712 ug/ml
Spiked Amount 50.000		Recovery =	85.42%
Target Compounds			

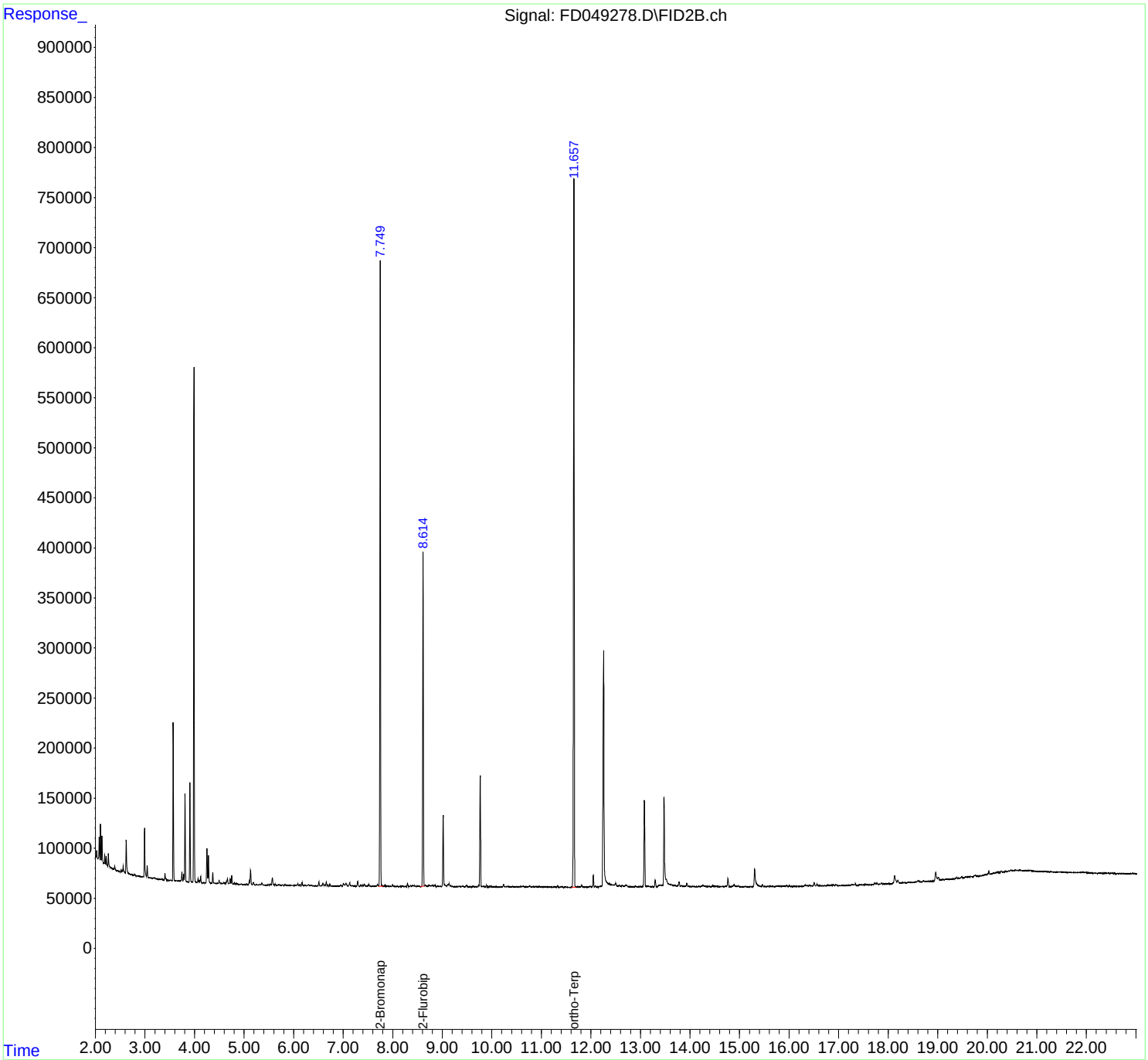
(f)=RT Delta > 1/2 Window (m)=manual int.

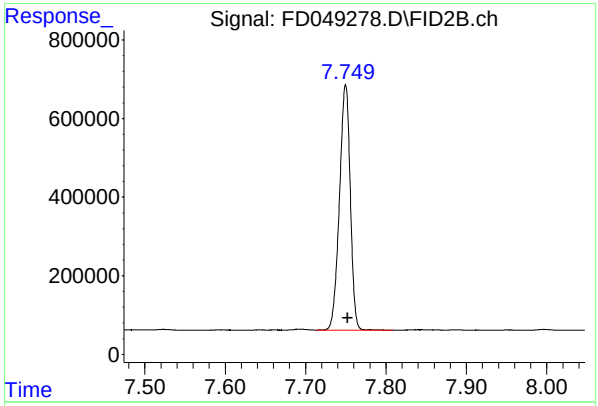
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049278.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 20:21
Operator : YP/AJ
Sample : Q1746-03
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB02

Integration File: autoint1.e
Quant Time: Apr 11 01:05:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

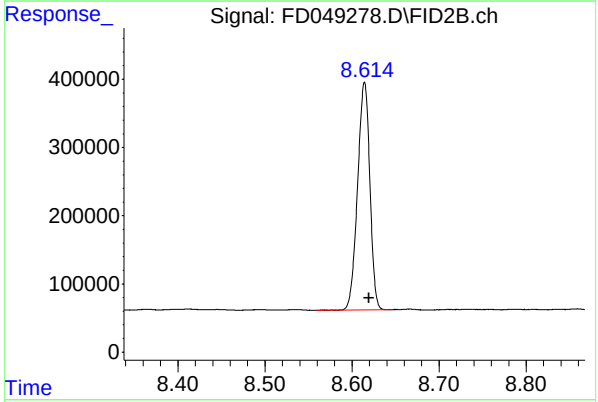




#4 2-Bromonaphthalene (SURR)

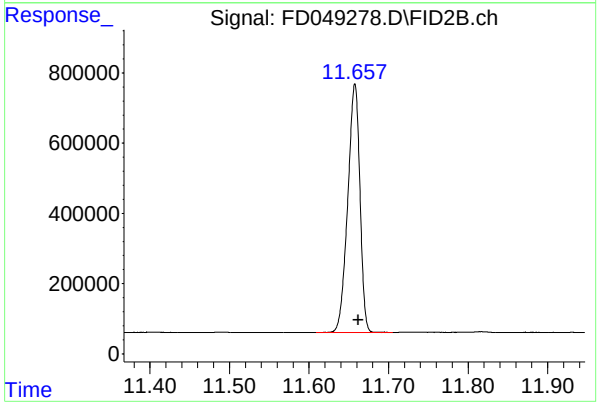
R.T.: 7.750 min
Delta R.T.: -0.003 min
Response: 5841715
Conc: 39.44 ug/ml

Instrument :
FID_D
ClientSampleId :
B-149-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.614 min
Delta R.T.: -0.005 min
Response: 3261837
Conc: 31.98 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.658 min
Delta R.T.: -0.004 min
Response: 7525191
Conc: 42.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049278.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 20:21
Sample : Q1746-03
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.072	4.042	4.084	BV	4109	34379	0.46%	0.087%
2	4.096	4.084	4.109	VV	2301	21946	0.29%	0.056%
3	4.124	4.109	4.162	VV	6386	58828	0.78%	0.150%
4	4.179	4.174	4.183	PV	344	1261	0.02%	0.003%
5	4.192	4.183	4.228	VV	839	8415	0.11%	0.021%
6	4.251	4.228	4.268	VV	34667	367701	4.87%	0.934%
7	4.282	4.268	4.335	VV	27945	264180	3.50%	0.671%
8	4.340	4.335	4.354	VV	277	2082	0.03%	0.005%
9	4.369	4.354	4.386	VV	11051	90082	1.19%	0.229%
10	4.391	4.386	4.412	VV	891	8060	0.11%	0.020%
11	4.419	4.412	4.429	VV	252	1229	0.02%	0.003%
12	4.452	4.429	4.471	VV	434	7195	0.10%	0.018%
13	4.497	4.471	4.555	VV	3906	51254	0.68%	0.130%
14	4.562	4.555	4.577	VV	528	5876	0.08%	0.015%
15	4.590	4.577	4.602	VV	1269	14551	0.19%	0.037%
16	4.613	4.602	4.631	VV	1390	13815	0.18%	0.035%
17	4.665	4.631	4.690	VV	5785	86409	1.15%	0.220%
18	4.721	4.690	4.736	VV	5426	58814	0.78%	0.149%
19	4.751	4.736	4.784	VV	8848	85710	1.14%	0.218%
20	4.804	4.784	4.830	VV	2160	22744	0.30%	0.058%
21	4.841	4.830	4.860	VV	1447	16697	0.22%	0.042%
22	4.869	4.860	4.897	VV	1029	11738	0.16%	0.030%
23	4.902	4.897	4.919	VV	238	2521	0.03%	0.006%
24	4.940	4.919	4.974	VV	906	11880	0.16%	0.030%
25	4.978	4.974	4.987	PV	245	1417	0.02%	0.004%
26	5.003	4.987	5.012	VV	313	3351	0.04%	0.009%
27	5.029	5.012	5.037	VV	292	2827	0.04%	0.007%
28	5.054	5.037	5.085	VV	993	12930	0.17%	0.033%
29	5.106	5.085	5.115	VV	4062	38320	0.51%	0.097%
30	5.132	5.115	5.162	VV	14651	166024	2.20%	0.422%
31	5.189	5.162	5.227	VV	2764	36406	0.48%	0.093%
32	5.245	5.227	5.276	VV	735	10445	0.14%	0.027%
33	5.297	5.276	5.302	VV	332	2931	0.04%	0.007%
34	5.323	5.302	5.340	VV	1057	12845	0.17%	0.033%
35	5.360	5.340	5.400	VV	2313	29583	0.39%	0.075%
36	5.413	5.409	5.436	VV	305	3576	0.05%	0.009%

rteres

37	5.440	5.436	5.483	VV	315	4022	0.05%	0.010%
38	5.498	5.483	5.517	PV	624	6018	0.08%	0.015%
39	5.532	5.517	5.548	VV	1566	14772	0.20%	0.038%
40	5.572	5.548	5.605	VV	7189	100365	1.33%	0.255%
41	5.630	5.605	5.651	VV	1508	19072	0.25%	0.048%
42	5.696	5.651	5.705	VV	877	13874	0.18%	0.035%
43	5.711	5.705	5.758	VV	600	8679	0.12%	0.022%
44	5.777	5.758	5.802	VV	684	9207	0.12%	0.023%
45	5.826	5.802	5.875	VV	948	16598	0.22%	0.042%
46	5.881	5.875	5.885	VV	344	1820	0.02%	0.005%
47	5.891	5.885	5.923	VV	460	7544	0.10%	0.019%
48	5.926	5.923	5.937	VV	350	2202	0.03%	0.006%
49	5.947	5.937	5.962	VV	372	3372	0.04%	0.009%
50	5.966	5.962	5.979	VV	266	2247	0.03%	0.006%
51	5.986	5.979	6.005	VV	382	3824	0.05%	0.010%
52	6.030	6.005	6.044	VV	640	10018	0.13%	0.025%
53	6.086	6.044	6.104	VV	1807	30012	0.40%	0.076%
54	6.129	6.104	6.152	VV	1294	20067	0.27%	0.051%
55	6.171	6.152	6.210	VV	3519	38990	0.52%	0.099%
56	6.230	6.210	6.268	VV	820	15900	0.21%	0.040%
57	6.304	6.268	6.335	VV	1385	28998	0.38%	0.074%
58	6.364	6.335	6.415	VV	976	20441	0.27%	0.052%
59	6.422	6.415	6.426	VV	305	1369	0.02%	0.003%
60	6.429	6.426	6.452	VV	248	2527	0.03%	0.006%
61	6.475	6.464	6.487	PV	374	3580	0.05%	0.009%
62	6.511	6.487	6.538	VV	4249	47351	0.63%	0.120%
63	6.553	6.538	6.574	VV	602	10358	0.14%	0.026%
64	6.592	6.574	6.617	VV	3122	44850	0.59%	0.114%
65	6.630	6.617	6.644	VV	1604	18488	0.25%	0.047%
66	6.660	6.644	6.681	VV	4499	47827	0.63%	0.122%
67	6.695	6.681	6.712	VV	1345	13988	0.19%	0.036%
68	6.732	6.712	6.754	VV	2468	24067	0.32%	0.061%
69	6.769	6.754	6.817	VV	340	7913	0.10%	0.020%
70	6.839	6.817	6.854	VV	547	7105	0.09%	0.018%
71	6.877	6.854	6.902	VV	451	8783	0.12%	0.022%
72	6.907	6.902	6.920	VV	447	3383	0.04%	0.009%
73	6.925	6.920	6.933	VV	326	1693	0.02%	0.004%
74	6.954	6.933	6.982	VV	1625	22048	0.29%	0.056%
75	7.006	6.982	7.020	VV	3065	38899	0.52%	0.099%
76	7.026	7.020	7.037	VV	1681	15059	0.20%	0.038%
77	7.055	7.037	7.096	VV	2752	57529	0.76%	0.146%
78	7.133	7.096	7.159	VV	3875	57073	0.76%	0.145%
79	7.179	7.159	7.187	VV	831	11724	0.16%	0.030%
80	7.191	7.187	7.206	VV	858	6883	0.09%	0.017%
81	7.213	7.206	7.230	VV	534	5967	0.08%	0.015%
82	7.237	7.230	7.255	VV	622	5343	0.07%	0.014%
83	7.294	7.255	7.332	PV	5226	65446	0.87%	0.166%
84	7.353	7.332	7.382	VV	1223	23904	0.32%	0.061%
85	7.400	7.382	7.413	VV	1582	18802	0.25%	0.048%
86	7.432	7.413	7.452	VV	2616	32192	0.43%	0.082%
87	7.463	7.452	7.484	VV	862	11591	0.15%	0.029%
88	7.499	7.484	7.509	VV	1041	12350	0.16%	0.031%
89	7.523	7.509	7.549	VV	2149	24801	0.33%	0.063%

rteres

90	7.554	7.549	7.559	VV	315	1539	0.02%	0.004%
91	7.561	7.559	7.574	VV	349	2398	0.03%	0.006%
92	7.591	7.574	7.596	VV	602	5679	0.08%	0.014%
93	7.599	7.596	7.622	VV	568	6197	0.08%	0.016%
94	7.643	7.622	7.653	VV	677	7788	0.10%	0.020%
95	7.662	7.653	7.675	VV	701	6505	0.09%	0.017%
96	7.694	7.675	7.713	VV	2613	31103	0.41%	0.079%
97	7.750	7.713	7.776	VV	625604	5845223	77.49%	14.855%
98	7.780	7.776	7.808	VV	1486	14314	0.19%	0.036%
99	7.841	7.808	7.873	VV	1343	28721	0.38%	0.073%
100	7.888	7.873	7.906	VV	835	10916	0.14%	0.028%
101	7.914	7.906	7.934	VV	486	5703	0.08%	0.014%
102	7.950	7.934	7.979	VV	689	7692	0.10%	0.020%
103	7.997	7.979	8.027	VV	2188	24781	0.33%	0.063%
104	8.030	8.027	8.038	VV	410	2184	0.03%	0.006%
105	8.059	8.038	8.069	VV	522	6948	0.09%	0.018%
106	8.091	8.069	8.127	VV	662	11855	0.16%	0.030%
107	8.149	8.135	8.155	VV	324	2843	0.04%	0.007%
108	8.176	8.155	8.183	VV	377	4770	0.06%	0.012%
109	8.202	8.183	8.238	VV	718	11563	0.15%	0.029%
110	8.245	8.238	8.263	PV	421	3729	0.05%	0.009%
111	8.268	8.263	8.275	VV	288	1446	0.02%	0.004%
112	8.299	8.275	8.319	VV	3501	39536	0.52%	0.100%
113	8.329	8.319	8.345	VV	592	7100	0.09%	0.018%
114	8.365	8.345	8.378	VV	1496	16702	0.22%	0.042%
115	8.396	8.378	8.402	VV	1292	13676	0.18%	0.035%
116	8.412	8.402	8.434	VV	1626	24154	0.32%	0.061%
117	8.445	8.434	8.472	VV	1223	14974	0.20%	0.038%
118	8.494	8.472	8.519	VV	1044	15582	0.21%	0.040%
119	8.535	8.519	8.557	VV	1082	12579	0.17%	0.032%
120	8.566	8.557	8.583	VV	226	2931	0.04%	0.007%
121	8.614	8.583	8.647	VV	334343	3290392	43.62%	8.362%
122	8.651	8.647	8.655	VV	1176	5223	0.07%	0.013%
123	8.666	8.655	8.686	VV	1845	21964	0.29%	0.056%
124	8.711	8.686	8.724	VV	1277	21519	0.29%	0.055%
125	8.732	8.724	8.749	VV	1480	18962	0.25%	0.048%
126	8.757	8.749	8.772	VV	1287	15358	0.20%	0.039%
127	8.787	8.772	8.800	VV	1623	22135	0.29%	0.056%
128	8.809	8.800	8.825	VV	1399	16605	0.22%	0.042%
129	8.836	8.825	8.845	VV	1562	15455	0.20%	0.039%
130	8.858	8.845	8.881	VV	2187	27326	0.36%	0.069%
131	8.905	8.881	8.914	VV	859	11017	0.15%	0.028%
132	8.917	8.914	8.938	VV	552	7187	0.10%	0.018%
133	8.953	8.938	8.978	VV	754	13356	0.18%	0.034%
134	9.020	8.978	9.044	VV	71918	740023	9.81%	1.881%
135	9.053	9.044	9.069	VV	2703	30382	0.40%	0.077%
136	9.075	9.069	9.090	VV	1329	14440	0.19%	0.037%
137	9.109	9.090	9.124	VV	2156	35190	0.47%	0.089%
138	9.139	9.124	9.163	VV	3399	50782	0.67%	0.129%
139	9.174	9.163	9.195	VV	1668	18201	0.24%	0.046%
140	9.207	9.195	9.239	VV	1167	14942	0.20%	0.038%
141	9.256	9.239	9.279	VV	774	11138	0.15%	0.028%

rteres

142	9.284	9.279	9.293	VV	399	2944	0.04%	0.007%
143	9.301	9.293	9.317	VV	568	6581	0.09%	0.017%
144	9.342	9.317	9.388	VV	1043	24863	0.33%	0.063%
145	9.404	9.388	9.412	VV	891	10274	0.14%	0.026%
146	9.417	9.412	9.437	VV	874	9347	0.12%	0.024%
147	9.458	9.437	9.463	VV	338	4427	0.06%	0.011%
148	9.488	9.463	9.524	VV	1974	34402	0.46%	0.087%
149	9.529	9.524	9.532	VV	285	1201	0.02%	0.003%
150	9.556	9.532	9.565	VV	495	6942	0.09%	0.018%
151	9.581	9.565	9.595	VV	473	5477	0.07%	0.014%
152	9.621	9.605	9.645	VV	1123	13851	0.18%	0.035%
153	9.657	9.645	9.670	VV	478	5455	0.07%	0.014%
154	9.674	9.670	9.679	VV	548	2245	0.03%	0.006%
155	9.684	9.679	9.695	VV	397	3386	0.04%	0.009%
156	9.703	9.695	9.709	VV	494	3159	0.04%	0.008%
157	9.737	9.709	9.744	VV	2084	23013	0.31%	0.058%
158	9.768	9.744	9.796	VV	111397	1130370	14.98%	2.873%
159	9.811	9.796	9.820	VV	752	8941	0.12%	0.023%
160	9.825	9.820	9.869	VV	756	14708	0.19%	0.037%
161	9.893	9.869	9.915	VV	1939	24050	0.32%	0.061%
162	9.923	9.915	9.935	VV	409	2582	0.03%	0.007%
163	9.972	9.935	10.030	VV	923	32639	0.43%	0.083%
164	10.066	10.030	10.071	VV	788	11375	0.15%	0.029%
165	10.092	10.071	10.117	VV	1048	14215	0.19%	0.036%
166	10.122	10.117	10.138	VV	326	1573	0.02%	0.004%
167	10.174	10.160	10.185	VV	368	4046	0.05%	0.010%
168	10.239	10.185	10.270	VV	3069	48956	0.65%	0.124%
169	10.290	10.270	10.305	VV	859	14185	0.19%	0.036%
170	10.330	10.305	10.345	VV	1002	15846	0.21%	0.040%
171	10.355	10.345	10.366	VV	616	6647	0.09%	0.017%
172	10.379	10.366	10.390	VV	726	8264	0.11%	0.021%
173	10.419	10.390	10.439	VV	1233	20415	0.27%	0.052%
174	10.443	10.439	10.452	VV	483	3488	0.05%	0.009%
175	10.457	10.452	10.466	VV	528	2889	0.04%	0.007%
176	10.493	10.466	10.505	VV	672	12154	0.16%	0.031%
177	10.522	10.505	10.547	VV	690	14365	0.19%	0.037%
178	10.565	10.547	10.570	VV	739	8339	0.11%	0.021%
179	10.578	10.570	10.601	VV	997	14387	0.19%	0.037%
180	10.628	10.601	10.643	VV	1289	23727	0.31%	0.060%
181	10.648	10.643	10.663	VV	925	7853	0.10%	0.020%
182	10.688	10.663	10.711	VV	832	14338	0.19%	0.036%
183	10.762	10.711	10.787	VV	1563	35477	0.47%	0.090%
184	10.792	10.787	10.801	VV	560	3709	0.05%	0.009%
185	10.845	10.801	10.870	VV	987	26415	0.35%	0.067%
186	10.887	10.870	10.908	VV	1052	15231	0.20%	0.039%
187	10.913	10.908	10.917	VV	599	2685	0.04%	0.007%
188	10.922	10.917	10.932	VV	450	3826	0.05%	0.010%
189	10.956	10.932	10.990	VV	1153	21987	0.29%	0.056%
190	11.001	10.990	11.027	VV	700	10867	0.14%	0.028%
191	11.054	11.027	11.072	VV	945	16599	0.22%	0.042%
192	11.086	11.072	11.105	VV	903	11744	0.16%	0.030%
193	11.110	11.105	11.116	VV	436	2495	0.03%	0.006%
194	11.133	11.116	11.142	VV	552	5991	0.08%	0.015%

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195	11.163	11.142	11.190	VV	488	8985	0.12%	0.023%
196	11.203	11.190	11.232	VV	482	8861	0.12%	0.023%
197	11.262	11.232	11.287	VV	821	15462	0.20%	0.039%
198	11.331	11.287	11.367	VV	1590	29068	0.39%	0.074%
199	11.405	11.367	11.421	VV	908	18547	0.25%	0.047%
200	11.427	11.421	11.458	VV	543	6365	0.08%	0.016%
201	11.490	11.458	11.515	PV	1070	16240	0.22%	0.041%
202	11.524	11.515	11.536	VV	346	3329	0.04%	0.008%
203	11.556	11.536	11.564	VV	302	3927	0.05%	0.010%
204	11.568	11.564	11.580	VV	278	2293	0.03%	0.006%
205	11.604	11.580	11.612	VV	411	5692	0.08%	0.014%
206	11.658	11.612	11.705	VV	708636	7543674	100.00%	19.171%
207	11.723	11.705	11.733	VV	868	10874	0.14%	0.028%
208	11.746	11.733	11.777	VV	861	16864	0.22%	0.043%
209	11.793	11.777	11.800	VV	940	10028	0.13%	0.025%
210	11.816	11.800	11.839	VV	2402	30191	0.40%	0.077%
211	11.881	11.839	11.899	VV	566	14525	0.19%	0.037%
212	11.907	11.899	11.912	VV	524	3237	0.04%	0.008%
213	11.931	11.912	11.950	VV	737	9653	0.13%	0.025%
214	11.956	11.950	11.962	VV	597	3939	0.05%	0.010%
215	11.989	11.962	12.013	VV	1109	24623	0.33%	0.063%
216	12.048	12.013	12.071	VV	12357	142455	1.89%	0.362%
217	12.090	12.071	12.110	VV	1663	21608	0.29%	0.055%
218	12.116	12.110	12.125	VV	329	2675	0.04%	0.007%
219	12.136	12.125	12.156	VV	519	8240	0.11%	0.021%
220	12.165	12.156	12.172	VV	703	6085	0.08%	0.015%
221	12.202	12.172	12.215	VV	1384	27879	0.37%	0.071%
222	12.257	12.215	12.352	VV	236781	3373315	44.72%	8.573%
223	12.361	12.352	12.393	VV	3985	85470	1.13%	0.217%
224	12.399	12.393	12.464	VV	3051	107441	1.42%	0.273%
225	12.499	12.464	12.524	VV	3978	97061	1.29%	0.247%
226	12.528	12.524	12.552	VV	1532	23675	0.31%	0.060%
227	12.573	12.552	12.605	VV	2376	49260	0.65%	0.125%
228	12.634	12.605	12.653	VV	2228	42451	0.56%	0.108%
229	12.661	12.653	12.669	VV	1191	9660	0.13%	0.025%
230	12.698	12.669	12.708	VV	2261	38590	0.51%	0.098%
231	12.722	12.708	12.757	VV	2395	43178	0.57%	0.110%
232	12.762	12.757	12.780	VV	922	10554	0.14%	0.027%
233	12.783	12.780	12.790	VV	781	4135	0.05%	0.011%
234	12.794	12.790	12.825	VV	761	12665	0.17%	0.032%
235	12.854	12.825	12.865	VV	676	12623	0.17%	0.032%
236	12.884	12.865	12.900	VV	938	15463	0.20%	0.039%
237	12.903	12.900	12.929	VV	992	13319	0.18%	0.034%
238	12.933	12.929	12.941	VV	626	3752	0.05%	0.010%
239	12.957	12.941	12.973	VV	651	8625	0.11%	0.022%
240	12.993	12.973	13.022	VV	1369	22304	0.30%	0.057%
241	13.027	13.022	13.031	VV	609	2416	0.03%	0.006%
242	13.079	13.031	13.109	VV	86969	1022532	13.55%	2.599%
243	13.126	13.109	13.135	VV	1019	14108	0.19%	0.036%
244	13.145	13.135	13.156	VV	1014	11173	0.15%	0.028%
245	13.166	13.156	13.179	VV	889	11079	0.15%	0.028%
246	13.185	13.179	13.217	VV	820	14743	0.20%	0.037%

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247	13.222	13.217	13.225	VV	385	1675	0.02%	0.004%
248	13.241	13.225	13.252	VV	812	9390	0.12%	0.024%
249	13.259	13.252	13.272	VV	671	6920	0.09%	0.018%
250	13.297	13.272	13.327	VV	7296	95626	1.27%	0.243%
251	13.387	13.327	13.393	VV	2116	52970	0.70%	0.135%
252	13.399	13.393	13.410	VV	2116	21256	0.28%	0.054%
253	13.415	13.410	13.434	VV	2139	25813	0.34%	0.066%
254	13.476	13.434	13.519	VV	89530	1172540	15.54%	2.980%
255	13.523	13.519	13.615	VV	7797	231019	3.06%	0.587%
256	13.620	13.615	13.672	VV	2425	71107	0.94%	0.181%
257	13.698	13.672	13.729	VV	1886	54302	0.72%	0.138%
258	13.779	13.729	13.808	VV	5480	107773	1.43%	0.274%
259	13.829	13.808	13.871	VV	1857	44799	0.59%	0.114%
260	13.889	13.871	13.909	VV	1002	19354	0.26%	0.049%
261	13.936	13.909	13.984	VV	3736	68338	0.91%	0.174%
262	13.989	13.984	14.002	VV	861	6875	0.09%	0.017%
263	14.007	14.002	14.019	VV	541	4746	0.06%	0.012%
264	14.024	14.019	14.039	VV	514	5178	0.07%	0.013%
265	14.054	14.039	14.064	VV	692	8284	0.11%	0.021%
266	14.082	14.064	14.115	VV	818	17855	0.24%	0.045%
267	14.119	14.115	14.141	VV	523	6977	0.09%	0.018%
268	14.162	14.141	14.170	VV	652	8581	0.11%	0.022%
269	14.178	14.170	14.206	VV	732	11201	0.15%	0.028%
270	14.261	14.206	14.288	VV	1895	52252	0.69%	0.133%
271	14.316	14.288	14.340	VV	765	18939	0.25%	0.048%
272	14.348	14.340	14.357	VV	563	5008	0.07%	0.013%
273	14.367	14.357	14.375	VV	636	5633	0.07%	0.014%
274	14.395	14.375	14.410	VV	714	11781	0.16%	0.030%
275	14.417	14.410	14.422	VV	557	3490	0.05%	0.009%
276	14.429	14.422	14.437	VV	629	4616	0.06%	0.012%
277	14.459	14.437	14.479	VV	1440	26795	0.36%	0.068%
278	14.493	14.479	14.518	VV	792	15574	0.21%	0.040%
279	14.527	14.518	14.534	VV	648	5455	0.07%	0.014%
280	14.554	14.534	14.568	VV	743	11921	0.16%	0.030%
281	14.575	14.568	14.585	VV	504	4717	0.06%	0.012%
282	14.602	14.585	14.618	VV	574	8487	0.11%	0.022%
283	14.634	14.618	14.638	VV	520	4390	0.06%	0.011%
284	14.647	14.638	14.659	VV	649	6575	0.09%	0.017%
285	14.662	14.659	14.680	VV	553	5759	0.08%	0.015%
286	14.707	14.680	14.714	VV	769	10956	0.15%	0.028%
287	14.726	14.714	14.731	VV	665	6223	0.08%	0.016%
288	14.765	14.731	14.805	VV	8531	117183	1.55%	0.298%
289	14.811	14.805	14.819	VV	474	3176	0.04%	0.008%
290	14.826	14.819	14.831	VV	479	2859	0.04%	0.007%
291	14.835	14.831	14.840	VV	587	2126	0.03%	0.005%
292	14.886	14.840	14.916	VV	2364	56932	0.75%	0.145%
293	14.925	14.916	14.950	VV	1152	13636	0.18%	0.035%
294	14.974	14.950	15.000	VV	1124	17685	0.23%	0.045%
295	15.006	15.000	15.055	VV	326	5667	0.08%	0.014%
296	15.091	15.065	15.103	PV	415	5036	0.07%	0.013%
297	15.109	15.103	15.116	VV	297	1983	0.03%	0.005%
298	15.120	15.116	15.163	VV	363	5479	0.07%	0.014%
299	15.177	15.163	15.199	VV	263	3231	0.04%	0.008%

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300	15.213	15.199	15.225	VV	342	2940	0.04%	0.007%
301	15.235	15.225	15.241	VV	276	2389	0.03%	0.006%
302	15.252	15.241	15.260	VV	350	2286	0.03%	0.006%
303	15.304	15.260	15.429	VV	17787	380996	5.05%	0.968%
304	15.465	15.429	15.484	VV	2119	34255	0.45%	0.087%
305	15.494	15.484	15.500	VV	412	2539	0.03%	0.006%
306	15.508	15.500	15.515	VV	350	1921	0.03%	0.005%
307	15.526	15.515	15.552	VV	287	4450	0.06%	0.011%
308	15.580	15.552	15.596	VV	643	11348	0.15%	0.029%
309	15.602	15.596	15.612	VV	362	2891	0.04%	0.007%
310	15.619	15.612	15.624	VV	437	2493	0.03%	0.006%
311	15.630	15.624	15.645	VV	487	4912	0.07%	0.012%
312	15.656	15.645	15.684	VV	569	8768	0.12%	0.022%
313	15.700	15.690	15.715	VV	301	2843	0.04%	0.007%
314	15.753	15.715	15.762	VV	971	14633	0.19%	0.037%
315	15.767	15.762	15.797	VV	1003	13945	0.18%	0.035%
316	15.807	15.797	15.819	VV	489	4759	0.06%	0.012%
317	15.831	15.819	15.853	VV	522	8064	0.11%	0.020%
318	15.856	15.853	15.871	VV	407	3143	0.04%	0.008%
319	15.903	15.871	15.924	VV	769	15107	0.20%	0.038%
320	15.944	15.924	15.964	VV	1199	19417	0.26%	0.049%
321	15.968	15.964	15.986	VV	550	5086	0.07%	0.013%
322	16.006	15.986	16.054	VV	897	17861	0.24%	0.045%
323	16.058	16.054	16.071	VV	234	1580	0.02%	0.004%
324	16.087	16.071	16.101	PV	325	4330	0.06%	0.011%
325	16.132	16.101	16.159	VV	521	11192	0.15%	0.028%
326	16.170	16.159	16.177	VV	412	3391	0.04%	0.009%
327	16.181	16.177	16.227	VV	400	6911	0.09%	0.018%
328	16.243	16.227	16.251	VV	313	2443	0.03%	0.006%
329	16.257	16.251	16.267	VV	273	1056	0.01%	0.003%
330	16.288	16.267	16.297	PV	425	4217	0.06%	0.011%
331	16.326	16.297	16.364	VV	1434	35314	0.47%	0.090%
332	16.371	16.364	16.380	VV	840	6166	0.08%	0.016%
333	16.422	16.380	16.461	VV	1032	32316	0.43%	0.082%
334	16.468	16.461	16.477	VV	436	3030	0.04%	0.008%
335	16.507	16.477	16.536	VV	3675	53620	0.71%	0.136%
336	16.561	16.536	16.591	VV	1988	32380	0.43%	0.082%
337	16.613	16.591	16.622	VV	512	7658	0.10%	0.019%
338	16.628	16.622	16.662	VV	508	8514	0.11%	0.022%
339	16.672	16.662	16.687	VV	334	2873	0.04%	0.007%
340	16.694	16.687	16.707	VV	281	2064	0.03%	0.005%
341	16.717	16.707	16.726	VV	397	2660	0.04%	0.007%
342	16.745	16.726	16.750	VV	380	3536	0.05%	0.009%
343	16.792	16.750	16.805	VV	1075	18941	0.25%	0.048%
344	16.819	16.805	16.837	VV	753	9762	0.13%	0.025%
345	16.860	16.837	16.871	VV	844	12378	0.16%	0.031%
346	16.890	16.871	16.912	VV	1314	20971	0.28%	0.053%
347	16.942	16.912	16.962	VV	1515	25070	0.33%	0.064%
348	16.969	16.962	17.004	VV	738	9412	0.12%	0.024%
349	17.009	17.004	17.013	VV	211	1045	0.01%	0.003%
350	17.018	17.013	17.034	VV	306	2344	0.03%	0.006%
351	17.040	17.034	17.045	VV	238	1156	0.02%	0.003%

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352	17.085	17.045	17.106	VV	559	9676	0.13%	0.025%
353	17.127	17.112	17.132	VV	301	1694	0.02%	0.004%
354	17.175	17.132	17.200	VV	307	7453	0.10%	0.019%
355	17.212	17.200	17.235	VV	432	5522	0.07%	0.014%
356	17.274	17.235	17.293	VV	975	21701	0.29%	0.055%
357	17.300	17.293	17.312	VV	658	6119	0.08%	0.016%
358	17.338	17.312	17.367	VV	1847	26630	0.35%	0.068%
359	17.394	17.380	17.399	PV	260	1675	0.02%	0.004%
360	17.420	17.399	17.432	VV	366	5118	0.07%	0.013%
361	17.440	17.432	17.459	VV	417	4126	0.05%	0.010%
362	17.463	17.459	17.509	VB	306	3485	0.05%	0.009%
363	17.530	17.510	17.547	BV	308	3188	0.04%	0.008%
364	17.555	17.547	17.565	VV	322	3275	0.04%	0.008%
365	17.569	17.565	17.596	VV	509	4978	0.07%	0.013%
366	17.621	17.596	17.637	PV	316	4333	0.06%	0.011%
367	17.662	17.637	17.692	VV	470	8328	0.11%	0.021%
368	17.730	17.692	17.752	VV	1557	34561	0.46%	0.088%
369	17.773	17.752	17.802	VV	1652	26549	0.35%	0.067%
370	17.832	17.802	17.842	VV	421	7008	0.09%	0.018%
371	17.863	17.842	17.890	VV	1524	22327	0.30%	0.057%
372	17.898	17.890	17.907	VV	389	3423	0.05%	0.009%
373	17.918	17.907	17.930	VV	319	3890	0.05%	0.010%
374	17.960	17.930	17.999	VV	601	12720	0.17%	0.032%
375	18.012	17.999	18.040	VV	436	7740	0.10%	0.020%
376	18.054	18.040	18.074	PV	328	3344	0.04%	0.008%
377	18.130	18.074	18.172	PV	8056	178813	2.37%	0.454%
378	18.195	18.172	18.265	VV	3619	82528	1.09%	0.210%
379	18.284	18.265	18.308	VV	853	17076	0.23%	0.043%
380	18.323	18.308	18.374	VV	630	18617	0.25%	0.047%
381	18.407	18.374	18.425	VV	930	18731	0.25%	0.048%
382	18.442	18.425	18.456	VV	666	10512	0.14%	0.027%
383	18.464	18.456	18.490	VV	531	8560	0.11%	0.022%
384	18.601	18.490	18.629	VV	1984	66376	0.88%	0.169%
385	18.634	18.629	18.674	VV	1390	17967	0.24%	0.046%
386	18.705	18.674	18.769	VV	1484	49753	0.66%	0.126%
387	18.783	18.769	18.806	VV	642	13487	0.18%	0.034%
388	18.817	18.806	18.831	VV	547	7413	0.10%	0.019%
389	18.889	18.831	18.907	VV	845	28713	0.38%	0.073%
390	18.959	18.907	18.989	VV	9378	187490	2.49%	0.476%
391	19.011	18.989	19.050	VV	4187	107862	1.43%	0.274%
392	19.093	19.050	19.114	VV	1836	58150	0.77%	0.148%
393	19.178	19.114	19.188	VV	1962	72392	0.96%	0.184%
394	19.198	19.188	19.224	VV	1945	36961	0.49%	0.094%
395	19.247	19.224	19.282	VV	1956	58156	0.77%	0.148%
396	19.325	19.282	19.335	VV	1816	53086	0.70%	0.135%
397	19.381	19.335	19.406	VV	2893	95502	1.27%	0.243%
398	19.420	19.406	19.437	VV	2350	39112	0.52%	0.099%
399	19.487	19.437	19.520	VV	3332	126068	1.67%	0.320%
400	19.563	19.520	19.585	VV	3051	101719	1.35%	0.259%
401	19.671	19.585	19.710	VV	3150	216486	2.87%	0.550%
402	19.757	19.710	19.789	VV	4353	170059	2.25%	0.432%
403	19.799	19.789	19.825	VV	3524	72909	0.97%	0.185%
404	19.856	19.825	19.867	VV	3488	83082	1.10%	0.211%

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405	19.872	19.867	19.879	VV	3437	23694	0.31%	0.060%
406	19.942	19.879	19.951	VV	4134	160823	2.13%	0.409%
407	20.031	19.951	20.062	VV	6554	328717	4.36%	0.835%
408	20.123	20.062	20.149	VV	5803	266309	3.53%	0.677%
409	20.199	20.149	20.225	VV	6055	268052	3.55%	0.681%
410	20.238	20.225	20.254	VV	5878	99404	1.32%	0.253%
411	20.284	20.254	20.317	VV	7276	241800	3.21%	0.615%
412	20.472	20.317	20.507	VV	7375	754618	10.00%	1.918%
413	20.567	20.507	20.604	VV	7113	404164	5.36%	1.027%
414	20.652	20.604	20.695	VV	7102	373566	4.95%	0.949%
415	20.708	20.695	20.755	VV	6473	225241	2.99%	0.572%
416	20.770	20.755	20.819	VV	6266	233227	3.09%	0.593%
417	20.829	20.819	20.844	VV	6059	88679	1.18%	0.225%
418	20.859	20.844	20.930	VV	6240	296741	3.93%	0.754%
419	20.936	20.930	20.979	VV	5313	149790	1.99%	0.381%
420	20.991	20.979	21.065	VV	5067	247240	3.28%	0.628%
421	21.073	21.065	21.135	VV	4679	187329	2.48%	0.476%
422	21.157	21.135	21.248	VV	4518	276771	3.67%	0.703%
423	21.275	21.248	21.350	VV	3736	216325	2.87%	0.550%
424	21.366	21.350	21.392	VV	3295	80208	1.06%	0.204%
425	21.418	21.392	21.460	VV	3317	128789	1.71%	0.327%
426	21.472	21.460	21.497	VV	3088	65628	0.87%	0.167%
427	21.507	21.497	21.522	VV	3004	43293	0.57%	0.110%
428	21.531	21.522	21.595	VV	2937	112750	1.49%	0.287%
429	21.614	21.595	21.622	VV	2282	35929	0.48%	0.091%
430	21.641	21.622	21.682	VV	2157	71802	0.95%	0.182%
431	21.690	21.682	21.700	VV	1978	20700	0.27%	0.053%
432	21.719	21.700	21.730	VV	1830	31281	0.41%	0.079%
433	21.745	21.730	21.757	VV	1808	27567	0.37%	0.070%
434	21.768	21.757	21.809	VV	1742	50023	0.66%	0.127%
435	21.837	21.809	21.880	VV	1675	65439	0.87%	0.166%
436	21.899	21.880	21.929	VV	1616	42427	0.56%	0.108%
437	21.936	21.929	21.950	VV	1515	17606	0.23%	0.045%
438	21.963	21.950	22.072	VV	1358	58503	0.78%	0.149%
439	22.093	22.072	22.154	VV	412	9858	0.13%	0.025%
440	22.159	22.154	22.180	VBA	150	6678	0.09%	0.017%

Sum of corrected areas: 39348491

Aromatic EPH 040725.M Fri Apr 11 01:44:39 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068541.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 01:18
Operator : YP/AJ
Sample : Q1746-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-158-GW01

Integration File: autoint1.e
Quant Time: Apr 10 05:28:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.152	5317650	57.244 ug/ml
Spiked Amount 50.000		Recovery = 114.49%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

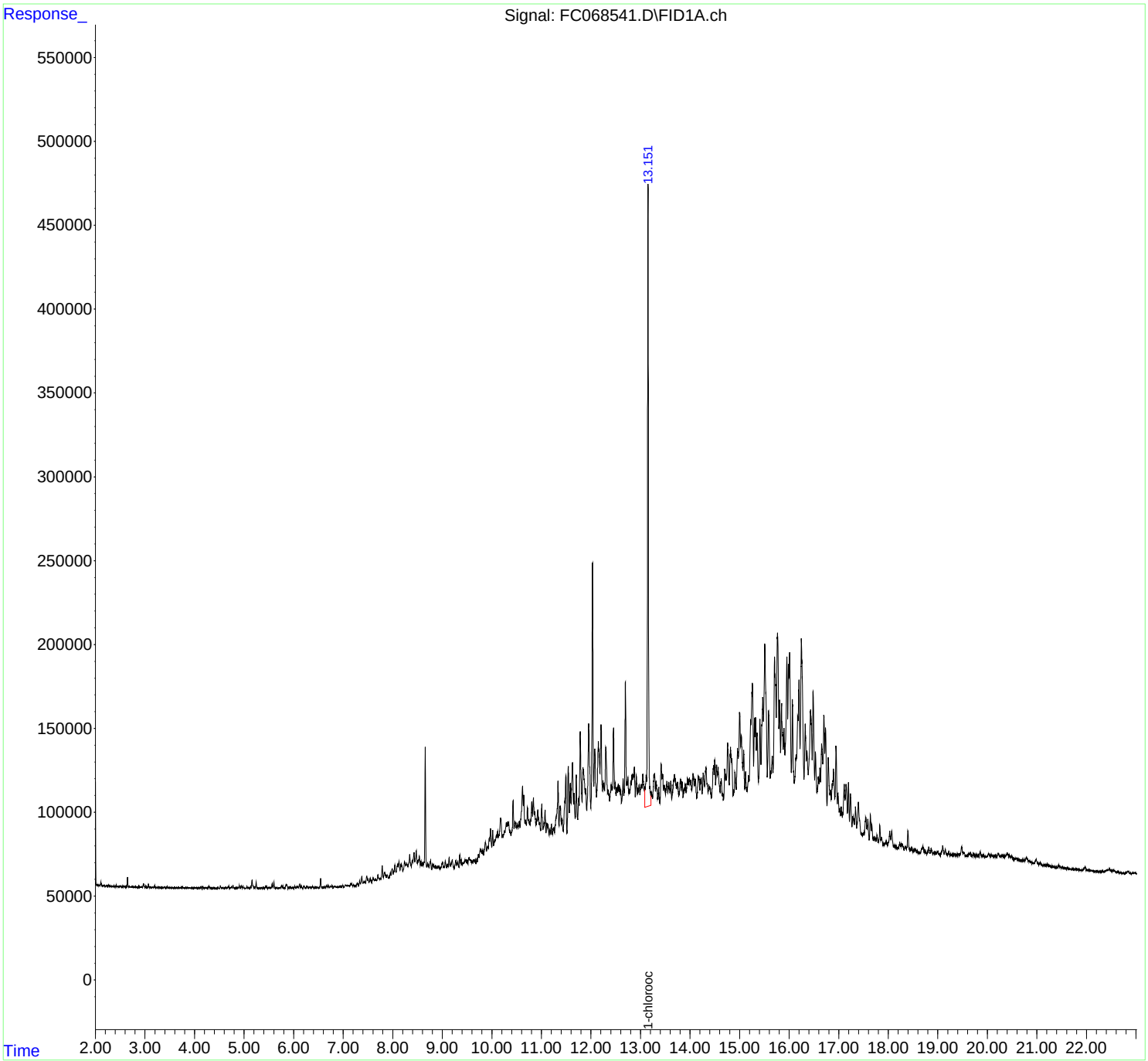
Sample Results: **FC068541.D**

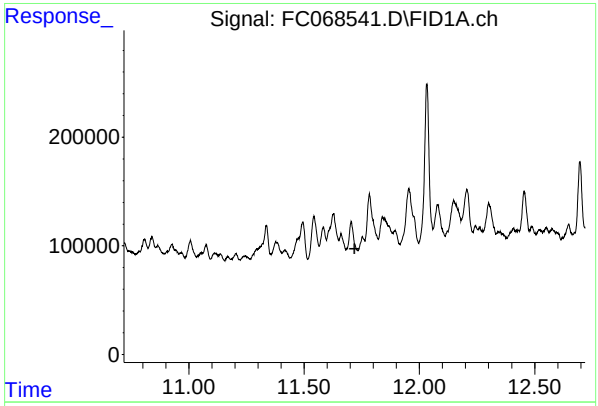
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068541.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 01:18
Operator : YP/AJ
Sample : Q1746-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-158-GW01

Integration File: autoint1.e
Quant Time: Apr 10 05:28:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

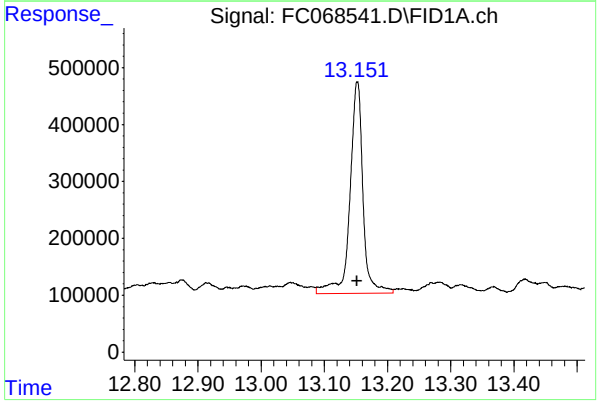




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-158-GW01



#12 1-chlorooctadecane (SURR)

R.T.: 13.152 min
Delta R.T.: 0.000 min
Response: 5317650
Conc: 57.24 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068541.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 01:18
Sample : Q1746-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.327	2.304	2.398	BV	140	3579	0.04%	0.001%
2	2.418	2.398	2.481	PV	742	6739	0.08%	0.002%
3	2.487	2.481	2.504	VV	67	699	0.01%	0.000%
4	2.530	2.504	2.541	PV	80	1058	0.01%	0.000%
5	2.573	2.541	2.615	VV	485	5519	0.06%	0.002%
6	2.647	2.615	2.667	PV	5778	44849	0.52%	0.014%
7	2.685	2.667	2.701	VV	526	5151	0.06%	0.002%
8	2.712	2.701	2.764	VV	159	4830	0.06%	0.001%
9	2.779	2.764	2.801	VV	218	3190	0.04%	0.001%
10	2.815	2.801	2.861	VV	269	4529	0.05%	0.001%
11	2.879	2.861	2.921	VV	687	7854	0.09%	0.002%
12	2.932	2.921	2.939	PV	93	667	0.01%	0.000%
13	2.969	2.939	3.004	VV	2400	30294	0.35%	0.009%
14	3.018	3.004	3.047	VV	674	7438	0.09%	0.002%
15	3.069	3.047	3.133	VV	2121	21244	0.25%	0.007%
16	3.150	3.133	3.174	VV	166	3085	0.04%	0.001%
17	3.198	3.174	3.258	VV	1535	15651	0.18%	0.005%
18	3.270	3.258	3.281	VV	112	1244	0.01%	0.000%
19	3.302	3.281	3.312	VV	138	1735	0.02%	0.001%
20	3.317	3.312	3.351	VV	101	1449	0.02%	0.000%
21	3.378	3.351	3.423	PV	192	4629	0.05%	0.001%
22	3.446	3.423	3.465	VV	518	5928	0.07%	0.002%
23	3.478	3.465	3.544	VV	149	1588	0.02%	0.000%
24	3.550	3.544	3.608	PV	78	1291	0.02%	0.000%
25	3.618	3.608	3.640	VV	85	973	0.01%	0.000%
26	3.649	3.640	3.661	VV	83	707	0.01%	0.000%
27	3.726	3.661	3.738	VV	193	3936	0.05%	0.001%
28	3.755	3.738	3.807	PV	535	8278	0.10%	0.003%
29	3.823	3.807	3.847	VV	192	1954	0.02%	0.001%
30	3.861	3.847	3.900	VV	125	2184	0.03%	0.001%
31	3.910	3.900	3.931	VV	101	1114	0.01%	0.000%
32	3.947	3.931	3.988	VV	329	4905	0.06%	0.002%
33	3.994	3.988	4.014	VV	176	1231	0.01%	0.000%
34	4.033	4.014	4.084	VV	333	4558	0.05%	0.001%
35	4.121	4.084	4.133	PV	541	6562	0.08%	0.002%
36	4.148	4.133	4.167	VV	1170	11259	0.13%	0.003%

rteres

37	4.179	4.167	4.199	VV	168	2144	0.03%	0.001%
38	4.217	4.199	4.243	VV	223	2356	0.03%	0.001%
39	4.292	4.243	4.328	VV	942	16302	0.19%	0.005%
40	4.344	4.328	4.353	VV	161	1510	0.02%	0.000%
41	4.359	4.353	4.365	VV	113	515	0.01%	0.000%
42	4.374	4.365	4.384	VV	78	825	0.01%	0.000%
43	4.392	4.384	4.411	VV	127	1182	0.01%	0.000%
44	4.418	4.411	4.431	VV	103	871	0.01%	0.000%
45	4.480	4.431	4.504	VV	177	4834	0.06%	0.001%
46	4.522	4.504	4.558	VV	1591	18393	0.21%	0.006%
47	4.568	4.558	4.587	VV	396	4389	0.05%	0.001%
48	4.596	4.587	4.613	VV	172	2128	0.02%	0.001%
49	4.634	4.613	4.658	VV	341	5587	0.07%	0.002%
50	4.690	4.658	4.714	PV	1296	17405	0.20%	0.005%
51	4.747	4.714	4.761	VV	1063	13720	0.16%	0.004%
52	4.777	4.761	4.798	VV	1830	17756	0.21%	0.005%
53	4.812	4.798	4.843	VV	135	1924	0.02%	0.001%
54	4.878	4.843	4.888	VV	465	5847	0.07%	0.002%
55	4.905	4.888	4.924	VV	1625	15331	0.18%	0.005%
56	4.944	4.924	4.964	VV	1697	19111	0.22%	0.006%
57	4.978	4.964	5.028	VV	1420	15627	0.18%	0.005%
58	5.057	5.028	5.072	PV	1004	9883	0.12%	0.003%
59	5.080	5.072	5.112	VV	347	3882	0.05%	0.001%
60	5.133	5.112	5.140	VV	734	6621	0.08%	0.002%
61	5.161	5.140	5.199	VV	5004	73409	0.86%	0.023%
62	5.218	5.199	5.228	VV	955	10669	0.12%	0.003%
63	5.244	5.228	5.285	VV	3722	35280	0.41%	0.011%
64	5.299	5.285	5.321	VV	159	2197	0.03%	0.001%
65	5.354	5.321	5.370	VV	263	4228	0.05%	0.001%
66	5.387	5.370	5.412	VV	379	5297	0.06%	0.002%
67	5.437	5.412	5.474	VV	1463	25973	0.30%	0.008%
68	5.493	5.474	5.504	VV	288	4057	0.05%	0.001%
69	5.512	5.504	5.541	VV	280	4619	0.05%	0.001%
70	5.565	5.541	5.583	VV	2686	29793	0.35%	0.009%
71	5.602	5.583	5.624	VV	3697	37425	0.44%	0.012%
72	5.636	5.624	5.647	VV	214	2372	0.03%	0.001%
73	5.661	5.647	5.686	VV	467	5088	0.06%	0.002%
74	5.723	5.686	5.733	VV	260	4518	0.05%	0.001%
75	5.755	5.733	5.769	VV	1717	17755	0.21%	0.005%
76	5.781	5.769	5.801	VV	1168	11016	0.13%	0.003%
77	5.807	5.801	5.823	VV	189	1835	0.02%	0.001%
78	5.851	5.823	5.888	VV	2199	44998	0.53%	0.014%
79	5.905	5.888	5.924	PV	777	8244	0.10%	0.003%
80	5.938	5.924	5.961	VV	940	9566	0.11%	0.003%
81	5.974	5.961	6.003	VV	417	7133	0.08%	0.002%
82	6.022	6.003	6.044	VV	979	12534	0.15%	0.004%
83	6.079	6.044	6.098	VV	890	18861	0.22%	0.006%
84	6.119	6.098	6.135	VV	2471	27704	0.32%	0.009%
85	6.148	6.135	6.183	VV	1321	18476	0.22%	0.006%
86	6.206	6.183	6.234	PV	1406	17874	0.21%	0.006%
87	6.266	6.234	6.286	VV	1187	15690	0.18%	0.005%
88	6.311	6.286	6.325	VV	402	7249	0.08%	0.002%
89	6.333	6.325	6.358	VV	381	5278	0.06%	0.002%

rteres

90	6.386	6.358	6.411	VV	818	14519	0.17%	0.004%
91	6.429	6.411	6.456	VV	363	5848	0.07%	0.002%
92	6.472	6.456	6.501	VV	557	6117	0.07%	0.002%
93	6.545	6.501	6.571	PV	5668	57757	0.67%	0.018%
94	6.580	6.571	6.618	VV	243	5480	0.06%	0.002%
95	6.631	6.618	6.647	VV	609	6516	0.08%	0.002%
96	6.666	6.647	6.679	VV	939	11632	0.14%	0.004%
97	6.696	6.679	6.716	VV	1604	18276	0.21%	0.006%
98	6.735	6.716	6.751	VV	734	9616	0.11%	0.003%
99	6.771	6.751	6.796	VV	1064	16941	0.20%	0.005%
100	6.827	6.796	6.871	VV	752	18785	0.22%	0.006%
101	6.887	6.871	6.901	VV	412	5226	0.06%	0.002%
102	6.950	6.901	6.971	VV	554	17906	0.21%	0.006%
103	6.990	6.971	7.018	VV	1290	18421	0.21%	0.006%
104	7.045	7.018	7.081	VV	1546	34824	0.41%	0.011%
105	7.106	7.081	7.127	VV	1178	25473	0.30%	0.008%
106	7.172	7.127	7.194	VV	2003	58051	0.68%	0.018%
107	7.207	7.194	7.228	VV	1305	19278	0.22%	0.006%
108	7.241	7.228	7.257	VV	790	11861	0.14%	0.004%
109	7.283	7.257	7.311	VV	2181	47772	0.56%	0.015%
110	7.333	7.311	7.349	VV	3877	53094	0.62%	0.016%
111	7.376	7.349	7.399	VV	6271	110667	1.29%	0.034%
112	7.412	7.399	7.422	VV	2820	34427	0.40%	0.011%
113	7.437	7.422	7.451	VV	3492	50527	0.59%	0.016%
114	7.477	7.451	7.521	VV	6432	181117	2.11%	0.056%
115	7.543	7.521	7.573	VV	4530	114106	1.33%	0.035%
116	7.604	7.573	7.636	VV	5229	152325	1.78%	0.047%
117	7.655	7.636	7.680	VV	4267	105093	1.23%	0.033%
118	7.701	7.680	7.746	VV	7226	206338	2.41%	0.064%
119	7.789	7.746	7.812	VV	12418	285941	3.34%	0.088%
120	7.835	7.812	7.872	VV	8523	246194	2.87%	0.076%
121	7.889	7.872	7.915	VV	6835	153609	1.79%	0.048%
122	7.953	7.915	7.965	VV	8149	193953	2.26%	0.060%
123	7.990	7.965	8.008	VV	10727	231247	2.70%	0.072%
124	8.043	8.008	8.065	VV	12754	326021	3.80%	0.101%
125	8.097	8.065	8.108	VV	13161	283915	3.31%	0.088%
126	8.126	8.108	8.148	VV	14404	300989	3.51%	0.093%
127	8.166	8.148	8.205	VV	12700	383126	4.47%	0.119%
128	8.240	8.205	8.266	VV	14441	443832	5.18%	0.137%
129	8.281	8.266	8.308	VV	13339	316588	3.69%	0.098%
130	8.344	8.308	8.374	VV	18772	569479	6.64%	0.176%
131	8.395	8.374	8.405	VV	15268	256946	3.00%	0.080%
132	8.431	8.405	8.447	VV	19926	424494	4.95%	0.131%
133	8.475	8.447	8.496	VV	21026	494760	5.77%	0.153%
134	8.537	8.496	8.558	VV	17756	560868	6.54%	0.174%
135	8.571	8.558	8.585	VV	14716	215219	2.51%	0.067%
136	8.601	8.585	8.616	VV	14013	245226	2.86%	0.076%
137	8.657	8.616	8.686	VV	82830	1206789	14.08%	0.373%
138	8.706	8.686	8.738	VV	13643	375478	4.38%	0.116%
139	8.764	8.738	8.784	VV	14819	355220	4.14%	0.110%
140	8.803	8.784	8.817	VV	12980	227037	2.65%	0.070%
141	8.827	8.817	8.847	VV	12338	207534	2.42%	0.064%

rteres

142	8.864	8.847	8.890	VV	11601	285252	3.33%	0.088%
143	8.917	8.890	8.950	VV	11552	386466	4.51%	0.120%
144	9.003	8.950	9.044	VV	13242	649069	7.57%	0.201%
145	9.062	9.044	9.083	VV	14568	286222	3.34%	0.089%
146	9.101	9.083	9.118	VV	12598	249285	2.91%	0.077%
147	9.139	9.118	9.159	VV	16545	326889	3.81%	0.101%
148	9.201	9.159	9.237	VV	14927	591163	6.90%	0.183%
149	9.273	9.237	9.293	VV	14694	416230	4.86%	0.129%
150	9.312	9.293	9.333	VV	13718	298715	3.49%	0.092%
151	9.353	9.333	9.370	VV	17940	321104	3.75%	0.099%
152	9.383	9.370	9.398	VV	14991	229443	2.68%	0.071%
153	9.477	9.398	9.491	VV	14905	749095	8.74%	0.232%
154	9.504	9.491	9.518	VV	14885	227608	2.66%	0.070%
155	9.539	9.518	9.586	VV	16163	600772	7.01%	0.186%
156	9.601	9.586	9.617	VV	14105	251686	2.94%	0.078%
157	9.634	9.617	9.651	VV	14952	290571	3.39%	0.090%
158	9.663	9.651	9.681	VV	14600	241859	2.82%	0.075%
159	9.697	9.681	9.708	VV	15420	231026	2.70%	0.071%
160	9.728	9.708	9.742	VV	18124	331507	3.87%	0.103%
161	9.778	9.742	9.808	VV	20684	758892	8.86%	0.235%
162	9.820	9.808	9.835	VV	20168	312175	3.64%	0.097%
163	9.871	9.835	9.895	VV	25019	785528	9.17%	0.243%
164	9.948	9.895	9.956	VV	27403	857940	10.01%	0.265%
165	9.975	9.956	9.998	VV	33202	705911	8.24%	0.218%
166	10.019	9.998	10.034	VV	31873	582517	6.80%	0.180%
167	10.091	10.034	10.100	VV	29112	1036626	12.10%	0.321%
168	10.115	10.100	10.129	VV	31256	528491	6.17%	0.164%
169	10.179	10.129	10.209	VV	39479	1574511	18.37%	0.487%
170	10.222	10.209	10.230	VV	29523	359348	4.19%	0.111%
171	10.254	10.230	10.267	VV	31707	674255	7.87%	0.209%
172	10.292	10.267	10.308	VV	36634	836199	9.76%	0.259%
173	10.321	10.308	10.332	VV	37148	516677	6.03%	0.160%
174	10.340	10.332	10.391	VV	36692	1150258	13.42%	0.356%
175	10.429	10.391	10.451	VV	49640	1339654	15.63%	0.415%
176	10.469	10.451	10.493	VV	37207	887592	10.36%	0.275%
177	10.508	10.493	10.529	VV	35947	738079	8.61%	0.228%
178	10.553	10.529	10.568	VV	37070	842687	9.83%	0.261%
179	10.620	10.568	10.637	VV	58290	1870881	21.83%	0.579%
180	10.647	10.637	10.668	VV	52698	834248	9.73%	0.258%
181	10.677	10.668	10.698	VV	37862	660477	7.71%	0.204%
182	10.720	10.698	10.770	VV	45201	1655708	19.32%	0.512%
183	10.808	10.770	10.823	VV	48552	1320559	15.41%	0.409%
184	10.840	10.823	10.894	VV	51375	1788746	20.87%	0.554%
185	10.927	10.894	10.958	VV	43986	1483364	17.31%	0.459%
186	10.967	10.958	10.983	VV	35875	515485	6.01%	0.160%
187	11.007	10.983	11.034	VV	47233	1169568	13.65%	0.362%
188	11.075	11.034	11.094	VV	43195	1299093	15.16%	0.402%
189	11.112	11.094	11.127	VV	35547	659543	7.70%	0.204%
190	11.136	11.127	11.155	VV	35013	545600	6.37%	0.169%
191	11.169	11.155	11.184	VV	32008	542917	6.34%	0.168%
192	11.204	11.184	11.224	VV	35121	763153	8.90%	0.236%
193	11.245	11.224	11.265	VV	33008	768983	8.97%	0.238%
194	11.336	11.265	11.356	VV	61190	2274770	26.54%	0.704%

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195	11.379	11.356	11.405	VV	45320	1176482	13.73%	0.364%
196	11.417	11.405	11.441	VV	38519	771635	9.00%	0.239%
197	11.494	11.441	11.516	VV	64156	2048398	23.90%	0.634%
198	11.543	11.516	11.565	VV	69414	1484547	17.32%	0.459%
199	11.583	11.565	11.597	VV	59268	980851	11.45%	0.304%
200	11.627	11.597	11.651	VV	71385	1893750	22.10%	0.586%
201	11.661	11.651	11.683	VV	52752	889098	10.37%	0.275%
202	11.704	11.683	11.733	VV	64204	1450383	16.92%	0.449%
203	11.783	11.733	11.821	VV	89160	3073455	35.86%	0.951%
204	11.842	11.821	11.884	VV	67415	2271972	26.51%	0.703%
205	11.894	11.884	11.915	VV	55841	967934	11.29%	0.300%
206	11.954	11.915	11.997	VV	94133	3197047	37.30%	0.989%
207	12.032	11.997	12.060	VV	191911	3717105	43.37%	1.150%
208	12.079	12.060	12.111	VV	79815	2022400	23.60%	0.626%
209	12.149	12.111	12.182	VV	83440	2931976	34.21%	0.907%
210	12.206	12.182	12.231	VV	93130	2226222	25.98%	0.689%
211	12.243	12.231	12.274	VV	59965	1459933	17.04%	0.452%
212	12.302	12.274	12.334	VV	79691	2368414	27.64%	0.733%
213	12.345	12.334	12.381	VV	54399	1459483	17.03%	0.452%
214	12.408	12.381	12.425	VV	57898	1446576	16.88%	0.448%
215	12.455	12.425	12.478	VV	91739	2187895	25.53%	0.677%
216	12.488	12.478	12.505	VV	58878	915227	10.68%	0.283%
217	12.521	12.505	12.534	VV	56056	946202	11.04%	0.293%
218	12.550	12.534	12.563	VV	58124	974444	11.37%	0.302%
219	12.576	12.563	12.614	VV	57086	1641765	19.16%	0.508%
220	12.647	12.614	12.665	VV	61495	1641271	19.15%	0.508%
221	12.696	12.665	12.721	VV	118979	2536328	29.60%	0.785%
222	12.745	12.721	12.763	VV	61720	1467696	17.13%	0.454%
223	12.774	12.763	12.784	VV	54070	676844	7.90%	0.209%
224	12.829	12.784	12.839	VV	63150	1940872	22.65%	0.601%
225	12.874	12.839	12.895	VV	68179	2081899	24.29%	0.644%
226	12.915	12.895	12.937	VV	62675	1436627	16.76%	0.445%
227	12.972	12.937	12.988	VV	57327	1662068	19.39%	0.514%
228	13.048	12.988	13.088	VV	63101	3424113	39.95%	1.060%
229	13.152	13.088	13.209	VV	417381	8570045	100.00%	2.652%
230	13.224	13.209	13.244	VV	52762	1057687	12.34%	0.327%
231	13.281	13.244	13.301	VV	63652	2022541	23.60%	0.626%
232	13.316	13.301	13.349	VV	59432	1554535	18.14%	0.481%
233	13.367	13.349	13.390	VV	55806	1263415	14.74%	0.391%
234	13.417	13.390	13.438	VV	69529	1728246	20.17%	0.535%
235	13.448	13.438	13.465	VV	63163	973494	11.36%	0.301%
236	13.480	13.465	13.505	VV	56745	1330915	15.53%	0.412%
237	13.531	13.505	13.551	VV	58965	1548100	18.06%	0.479%
238	13.572	13.551	13.594	VV	58344	1428942	16.67%	0.442%
239	13.612	13.594	13.631	VV	58710	1200379	14.01%	0.371%
240	13.690	13.631	13.724	VV	62827	3224942	37.63%	0.998%
241	13.745	13.724	13.774	VV	57761	1663019	19.41%	0.515%
242	13.810	13.774	13.823	VV	60633	1636992	19.10%	0.507%
243	13.839	13.823	13.859	VV	58077	1168967	13.64%	0.362%
244	13.903	13.859	13.918	VV	57406	1914348	22.34%	0.592%
245	13.949	13.918	13.971	VV	60369	1822793	21.27%	0.564%
246	13.987	13.971	14.001	VV	60689	1073779	12.53%	0.332%

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247	14.016	14.001	14.035	VV	59726	1175285	13.71%	0.364%
248	14.061	14.035	14.092	VV	63134	1995098	23.28%	0.617%
249	14.105	14.092	14.138	VV	59510	1508633	17.60%	0.467%
250	14.174	14.138	14.195	VV	61759	1979518	23.10%	0.613%
251	14.223	14.195	14.245	VV	60916	1706909	19.92%	0.528%
252	14.266	14.245	14.294	VV	63570	1733481	20.23%	0.536%
253	14.319	14.294	14.363	VV	66918	2455774	28.66%	0.760%
254	14.379	14.363	14.431	VV	56152	2195439	25.62%	0.679%
255	14.473	14.431	14.482	VV	67752	1820313	21.24%	0.563%
256	14.496	14.482	14.514	VV	71141	1268875	14.81%	0.393%
257	14.534	14.514	14.551	VV	67291	1401822	16.36%	0.434%
258	14.566	14.551	14.607	VV	67014	1991246	23.23%	0.616%
259	14.628	14.607	14.674	VV	60085	2154057	25.13%	0.667%
260	14.700	14.674	14.734	VV	65193	2129040	24.84%	0.659%
261	14.758	14.734	14.788	VV	81350	2251852	26.28%	0.697%
262	14.817	14.788	14.868	VV	78338	3183925	37.15%	0.985%
263	14.907	14.868	14.929	VV	63003	2073798	24.20%	0.642%
264	14.958	14.929	14.973	VV	77437	1770717	20.66%	0.548%
265	14.999	14.973	15.019	VV	98947	2388677	27.87%	0.739%
266	15.035	15.019	15.065	VV	85528	2147929	25.06%	0.665%
267	15.082	15.065	15.103	VV	76615	1535570	17.92%	0.475%
268	15.120	15.103	15.144	VV	64163	1429196	16.68%	0.442%
269	15.178	15.144	15.188	VV	61450	1474040	17.20%	0.456%
270	15.258	15.188	15.281	VV	116471	5043822	58.85%	1.561%
271	15.299	15.281	15.311	VV	95955	1529397	17.85%	0.473%
272	15.322	15.311	15.337	VV	95711	1384958	16.16%	0.429%
273	15.349	15.337	15.378	VV	85840	1856421	21.66%	0.574%
274	15.409	15.378	15.430	VV	94818	2305978	26.91%	0.714%
275	15.466	15.430	15.480	VV	106217	2783672	32.48%	0.861%
276	15.508	15.480	15.558	VV	139618	4974954	58.05%	1.539%
277	15.585	15.558	15.616	VV	99907	2764182	32.25%	0.855%
278	15.625	15.616	15.631	VV	63909	575407	6.71%	0.178%
279	15.657	15.631	15.674	VV	72617	1747162	20.39%	0.541%
280	15.705	15.674	15.738	VV	131574	4038999	47.13%	1.250%
281	15.764	15.738	15.793	VV	144888	3960389	46.21%	1.225%
282	15.807	15.793	15.826	VV	105528	1882083	21.96%	0.582%
283	15.845	15.826	15.879	VV	103346	2817694	32.88%	0.872%
284	15.894	15.879	15.913	VV	89294	1658665	19.35%	0.513%
285	15.953	15.913	15.970	VV	131881	3453366	40.30%	1.069%
286	16.007	15.970	16.044	VV	134031	4732569	55.22%	1.464%
287	16.065	16.044	16.101	VV	106254	2647414	30.89%	0.819%
288	16.138	16.101	16.146	VV	73108	1762190	20.56%	0.545%
289	16.197	16.146	16.218	VV	117134	4064729	47.43%	1.258%
290	16.246	16.218	16.299	VV	141869	4981772	58.13%	1.542%
291	16.323	16.299	16.348	VV	91329	2256079	26.33%	0.698%
292	16.360	16.348	16.383	VV	75072	1474152	17.20%	0.456%
293	16.430	16.383	16.463	VV	100056	3928291	45.84%	1.216%
294	16.483	16.463	16.513	VV	110579	2578483	30.09%	0.798%
295	16.531	16.513	16.559	VV	74412	1712846	19.99%	0.530%
296	16.589	16.559	16.603	VV	59942	1477925	17.25%	0.457%
297	16.620	16.603	16.631	VV	65254	1009249	11.78%	0.312%
298	16.655	16.631	16.680	VV	79324	2060155	24.04%	0.637%
299	16.701	16.680	16.718	VV	95623	1932268	22.55%	0.598%

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300	16.734	16.718	16.763	VV	89253	1871568	21.84%	0.579%
301	16.788	16.763	16.831	VV	70739	2313038	26.99%	0.716%
302	16.836	16.831	16.851	VV	51132	582933	6.80%	0.180%
303	16.894	16.851	16.920	VV	63235	2279881	26.60%	0.705%
304	16.946	16.920	16.972	VV	78118	1850953	21.60%	0.573%
305	16.986	16.972	17.008	VV	49805	1001147	11.68%	0.310%
306	17.018	17.008	17.037	VV	40181	683857	7.98%	0.212%
307	17.054	17.037	17.072	VV	41657	802300	9.36%	0.248%
308	17.110	17.072	17.129	VV	55007	1558052	18.18%	0.482%
309	17.150	17.129	17.175	VV	54422	1337875	15.61%	0.414%
310	17.195	17.175	17.215	VV	55789	1094046	12.77%	0.339%
311	17.237	17.215	17.267	VV	49190	1228905	14.34%	0.380%
312	17.289	17.267	17.319	VV	35744	1055379	12.31%	0.327%
313	17.338	17.319	17.361	VV	41476	894921	10.44%	0.277%
314	17.395	17.361	17.480	VV	44083	2291449	26.74%	0.709%
315	17.544	17.480	17.574	VV	35243	1644970	19.19%	0.509%
316	17.587	17.574	17.614	VV	33873	686512	8.01%	0.212%
317	17.639	17.614	17.656	VV	36980	749201	8.74%	0.232%
318	17.668	17.656	17.709	VV	30775	809409	9.44%	0.250%
319	17.726	17.709	17.755	VV	23529	631280	7.37%	0.195%
320	17.772	17.755	17.804	VV	24778	647383	7.55%	0.200%
321	17.829	17.804	17.854	VV	30490	744471	8.69%	0.230%
322	17.864	17.854	17.910	VV	23148	689591	8.05%	0.213%
323	17.967	17.910	17.986	VV	20549	882010	10.29%	0.273%
324	18.028	17.986	18.048	VV	26783	825995	9.64%	0.256%
325	18.068	18.048	18.108	VV	26791	793843	9.26%	0.246%
326	18.115	18.108	18.121	VV	18004	140938	1.64%	0.044%
327	18.131	18.121	18.192	VV	18368	738597	8.62%	0.229%
328	18.232	18.192	18.250	VV	20053	623878	7.28%	0.193%
329	18.274	18.250	18.314	VV	19192	690270	8.05%	0.214%
330	18.344	18.314	18.366	VV	17198	514414	6.00%	0.159%
331	18.396	18.366	18.461	VV	26869	1043401	12.17%	0.323%
332	18.481	18.461	18.499	VV	16480	352128	4.11%	0.109%
333	18.525	18.499	18.537	VV	15246	340842	3.98%	0.105%
334	18.549	18.537	18.637	VV	15888	858047	10.01%	0.266%
335	18.645	18.637	18.650	VV	13647	109005	1.27%	0.034%
336	18.672	18.650	18.684	VV	16089	308180	3.60%	0.095%
337	18.697	18.684	18.722	VV	17475	358136	4.18%	0.111%
338	18.737	18.722	18.779	VV	14884	477212	5.57%	0.148%
339	18.817	18.779	18.844	VV	16887	566430	6.61%	0.175%
340	18.865	18.844	18.897	VV	16140	453243	5.29%	0.140%
341	18.913	18.897	18.924	VV	13676	216000	2.52%	0.067%
342	18.950	18.924	18.976	VV	13767	408494	4.77%	0.126%
343	19.000	18.976	19.022	VV	14073	367815	4.29%	0.114%
344	19.031	19.022	19.048	VV	12438	187205	2.18%	0.058%
345	19.056	19.048	19.062	VV	12676	107382	1.25%	0.033%
346	19.098	19.062	19.130	VV	17529	587294	6.85%	0.182%
347	19.152	19.130	19.191	VV	15235	489148	5.71%	0.151%
348	19.218	19.191	19.267	VV	13672	566825	6.61%	0.175%
349	19.284	19.267	19.296	VV	12228	203683	2.38%	0.063%
350	19.320	19.296	19.347	VV	12172	366728	4.28%	0.113%
351	19.356	19.347	19.394	VV	12151	334390	3.90%	0.103%

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352	19.412	19.394	19.424	VV	12379	215931	2.52%	0.067%
353	19.433	19.424	19.448	VV	12217	168794	1.97%	0.052%
354	19.479	19.448	19.509	VV	16552	522119	6.09%	0.162%
355	19.525	19.509	19.601	VV	13267	650157	7.59%	0.201%
356	19.623	19.601	19.638	VV	12684	261719	3.05%	0.081%
357	19.655	19.638	19.675	VV	12760	272271	3.18%	0.084%
358	19.687	19.675	19.698	VV	11456	152819	1.78%	0.047%
359	19.720	19.698	19.754	VV	12731	388134	4.53%	0.120%
360	19.772	19.754	19.831	VV	11547	513644	5.99%	0.159%
361	19.854	19.831	19.891	VV	13601	426546	4.98%	0.132%
362	19.907	19.891	19.943	VV	11534	346189	4.04%	0.107%
363	19.959	19.943	19.974	VV	10574	190573	2.22%	0.059%
364	20.023	19.974	20.057	VV	12261	555184	6.48%	0.172%
365	20.074	20.057	20.089	VV	11338	212563	2.48%	0.066%
366	20.095	20.089	20.111	VV	11223	141601	1.65%	0.044%
367	20.131	20.111	20.168	VV	11137	367933	4.29%	0.114%
368	20.177	20.168	20.188	VV	10923	127725	1.49%	0.040%
369	20.223	20.188	20.264	VV	12230	504367	5.89%	0.156%
370	20.276	20.264	20.288	VV	10775	156780	1.83%	0.049%
371	20.301	20.288	20.351	VV	11120	398372	4.65%	0.123%
372	20.359	20.351	20.365	VV	10451	88822	1.04%	0.027%
373	20.406	20.365	20.431	VV	11897	444937	5.19%	0.138%
374	20.444	20.431	20.481	VV	10688	310260	3.62%	0.096%
375	20.491	20.481	20.529	VV	10154	271092	3.16%	0.084%
376	20.545	20.529	20.571	VV	9123	223616	2.61%	0.069%
377	20.591	20.571	20.654	VV	9265	424917	4.96%	0.131%
378	20.675	20.654	20.694	VV	8142	185428	2.16%	0.057%
379	20.714	20.694	20.731	VV	8066	176582	2.06%	0.055%
380	20.738	20.731	20.758	VV	8221	125829	1.47%	0.039%
381	20.787	20.758	20.824	VV	9142	339077	3.96%	0.105%
382	20.837	20.824	20.931	VV	7591	428986	5.01%	0.133%
383	20.937	20.931	20.947	VV	5979	55143	0.64%	0.017%
384	20.980	20.947	21.040	VV	7985	371044	4.33%	0.115%
385	21.064	21.040	21.127	VV	5998	276437	3.23%	0.086%
386	21.137	21.127	21.147	VV	4726	54250	0.63%	0.017%
387	21.159	21.147	21.195	VV	4805	135290	1.58%	0.042%
388	21.214	21.195	21.290	VV	4927	241828	2.82%	0.075%
389	21.302	21.290	21.382	VV	3833	192634	2.25%	0.060%
390	21.400	21.382	21.412	VV	3258	57557	0.67%	0.018%
391	21.439	21.412	21.487	VV	4296	162422	1.90%	0.050%
392	21.508	21.487	21.610	VV	3114	200024	2.33%	0.062%
393	21.622	21.610	21.635	VV	2444	35655	0.42%	0.011%
394	21.645	21.635	21.669	VV	2321	42366	0.49%	0.013%
395	21.685	21.669	21.718	VV	2096	58154	0.68%	0.018%
396	21.724	21.718	21.741	VV	2028	26208	0.31%	0.008%
397	21.754	21.741	21.811	VV	1939	74263	0.87%	0.023%
398	21.827	21.811	21.871	VV	1783	53466	0.62%	0.017%
399	21.886	21.871	21.907	VV	1498	28394	0.33%	0.009%
400	21.975	21.907	22.024	VV	2590	120315	1.40%	0.037%
401	22.034	22.024	22.108	VV	1290	53053	0.62%	0.016%
402	22.118	22.108	22.171	VV	766	20739	0.24%	0.006%
403	22.186	22.171	22.226	VV	588	11909	0.14%	0.004%
404	22.240	22.226	22.264	VV	208	4208	0.05%	0.001%

rteres
Sum of corrected areas: 323165526

Aliphatic EPH 040925.M Thu Apr 10 06:12:33 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049263.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 19:45
Operator : YP/AJ
Sample : Q1746-05
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-158-GW01

Integration File: autoint1.e
Quant Time: Apr 10 02:09:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.751	6329874	42.731 ug/ml
Spiked Amount 50.000		Recovery =	85.46%
6) S 2-Flurobiphenyl (SURR)	8.616	3651797	35.801 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	71.60%
11) S ortho-Terphenyl (SURR)	11.659	6317649	35.858 ug/ml
Spiked Amount 50.000		Recovery =	71.72%
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

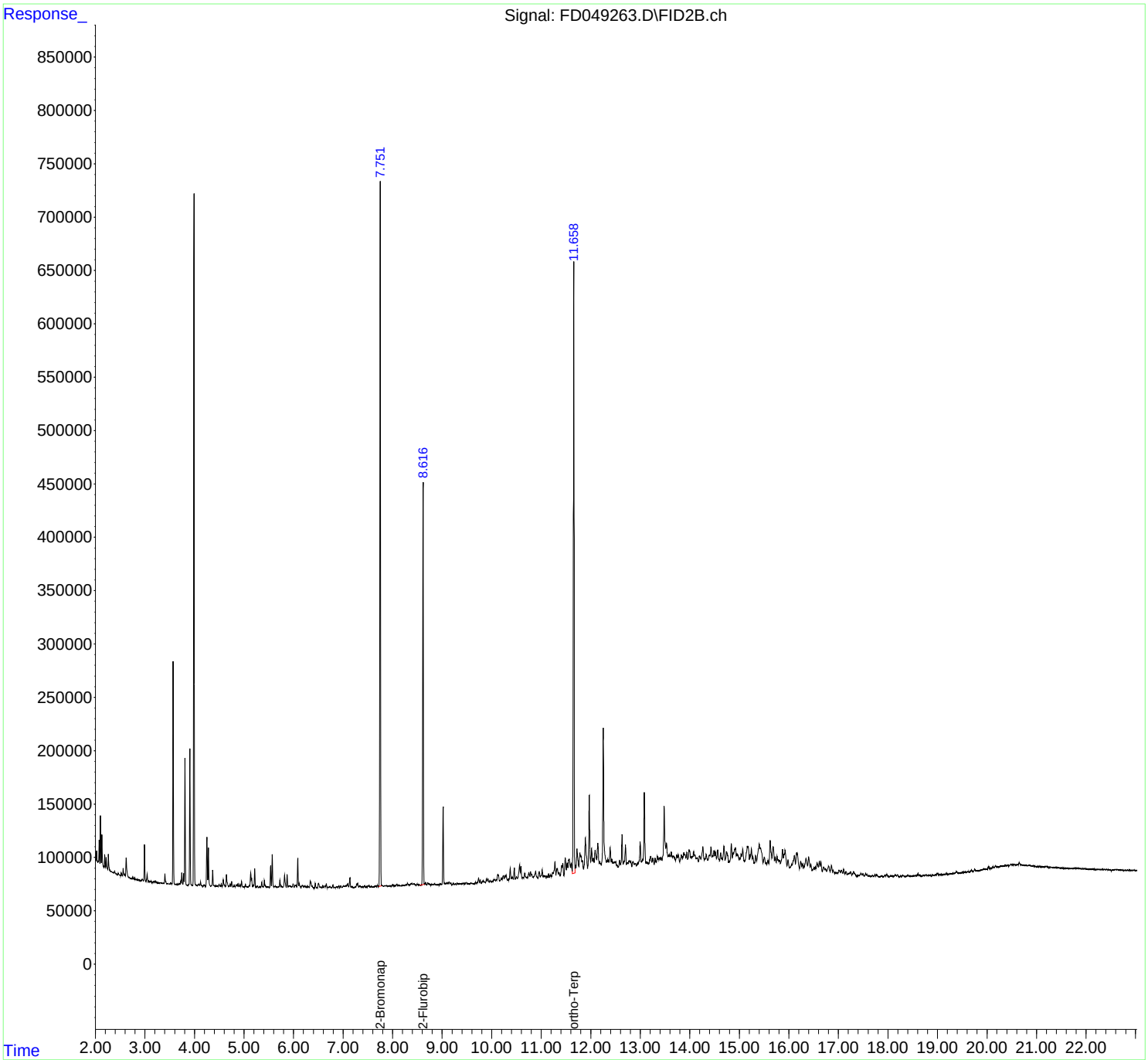
Sample Results: **FD049263.D**

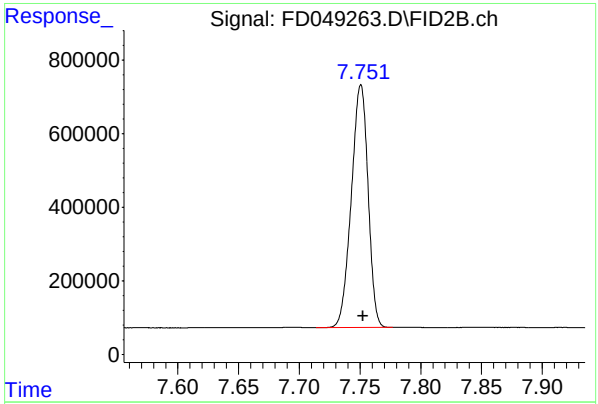
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049263.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 19:45
Operator : YP/AJ
Sample : Q1746-05
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-158-GW01

Integration File: autoint1.e
Quant Time: Apr 10 02:09:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

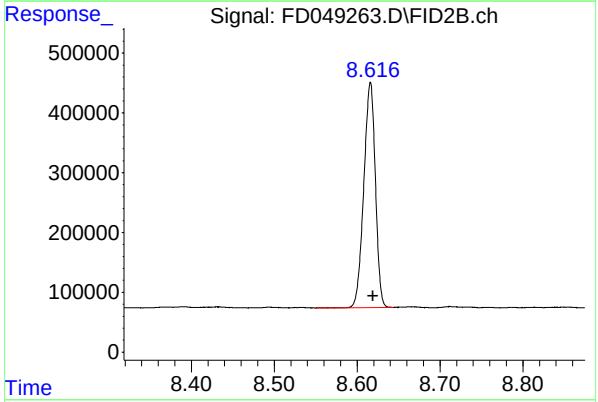




#4 2-Bromonaphthalene (SURR)

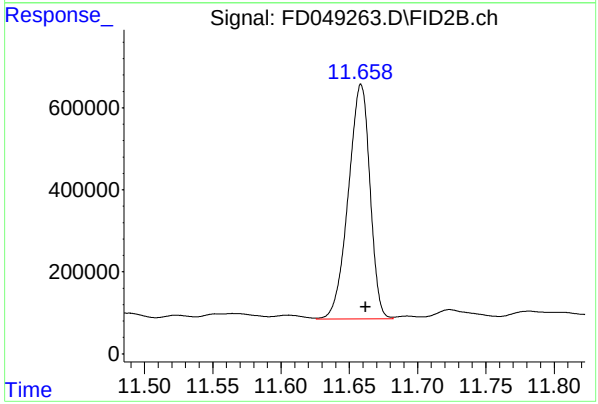
R.T.: 7.751 min
Delta R.T.: -0.002 min
Response: 6329874
Conc: 42.73 ug/ml

Instrument :
FID_D
ClientSampleId :
B-158-GW01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.616 min
Delta R.T.: -0.003 min
Response: 3651797
Conc: 35.80 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.659 min
Delta R.T.: -0.003 min
Response: 6317649
Conc: 35.86 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049263.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 19:45
Sample : Q1746-05
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.072	4.042	4.084	BV	935	7495	0.11%	0.007%
2	4.093	4.084	4.108	VV	1187	10008	0.15%	0.009%
3	4.124	4.108	4.142	VV	3711	33052	0.50%	0.030%
4	4.148	4.142	4.164	VV	420	2761	0.04%	0.003%
5	4.191	4.164	4.229	PV	1279	15428	0.23%	0.014%
6	4.251	4.229	4.268	VV	45827	495597	7.45%	0.450%
7	4.281	4.268	4.329	VV	36075	334090	5.02%	0.304%
8	4.368	4.329	4.387	VV	15244	136422	2.05%	0.124%
9	4.393	4.387	4.413	VV	1038	9504	0.14%	0.009%
10	4.438	4.413	4.470	VV	502	11901	0.18%	0.011%
11	4.497	4.470	4.525	VV	2514	28902	0.43%	0.026%
12	4.542	4.525	4.559	VV	2081	19418	0.29%	0.018%
13	4.582	4.559	4.629	VV	6426	85726	1.29%	0.078%
14	4.645	4.629	4.701	VV	11575	151214	2.27%	0.137%
15	4.721	4.701	4.735	VV	2774	27187	0.41%	0.025%
16	4.751	4.735	4.782	VV	4994	50712	0.76%	0.046%
17	4.804	4.782	4.821	VV	2086	20114	0.30%	0.018%
18	4.846	4.821	4.864	VV	2253	33757	0.51%	0.031%
19	4.878	4.864	4.899	VV	3169	31760	0.48%	0.029%
20	4.917	4.899	4.934	VV	2595	29187	0.44%	0.027%
21	4.951	4.934	5.010	VV	5424	58984	0.89%	0.054%
22	5.030	5.010	5.086	PV	2672	34999	0.53%	0.032%
23	5.105	5.086	5.113	VV	1899	17538	0.26%	0.016%
24	5.136	5.113	5.174	VV	13770	238940	3.59%	0.217%
25	5.191	5.174	5.200	VV	2130	23423	0.35%	0.021%
26	5.216	5.200	5.242	VV	17712	163863	2.46%	0.149%
27	5.246	5.242	5.257	VV	677	5118	0.08%	0.005%
28	5.272	5.257	5.294	VV	1698	17127	0.26%	0.016%
29	5.324	5.294	5.340	PV	815	10553	0.16%	0.010%
30	5.358	5.340	5.389	VV	5015	55383	0.83%	0.050%
31	5.412	5.389	5.482	VV	6712	98635	1.48%	0.090%
32	5.492	5.482	5.511	VV	618	7213	0.11%	0.007%
33	5.537	5.511	5.553	VV	20765	190147	2.86%	0.173%
34	5.571	5.553	5.615	VV	31157	313279	4.71%	0.285%
35	5.630	5.615	5.684	VV	1294	31261	0.47%	0.028%
36	5.725	5.684	5.741	VV	7080	78461	1.18%	0.071%

rteres

37	5.751	5.741	5.768	VV	1906	19059	0.29%	0.017%
38	5.778	5.768	5.787	VV	528	5199	0.08%	0.005%
39	5.819	5.787	5.854	VV	11767	170912	2.57%	0.155%
40	5.871	5.854	5.892	VV	12211	113964	1.71%	0.104%
41	5.906	5.892	5.913	VV	1759	15744	0.24%	0.014%
42	5.924	5.913	5.952	VV	1800	31326	0.47%	0.028%
43	5.959	5.952	5.974	VV	1155	11936	0.18%	0.011%
44	5.992	5.974	6.013	VV	3778	47685	0.72%	0.043%
45	6.048	6.013	6.064	VV	2495	48212	0.72%	0.044%
46	6.086	6.064	6.104	VV	27818	259947	3.91%	0.236%
47	6.115	6.104	6.152	VV	4226	55868	0.84%	0.051%
48	6.173	6.152	6.181	VV	2290	23264	0.35%	0.021%
49	6.187	6.181	6.204	VV	1985	19817	0.30%	0.018%
50	6.232	6.204	6.261	VV	2089	36883	0.55%	0.034%
51	6.277	6.261	6.291	VV	1508	17357	0.26%	0.016%
52	6.303	6.291	6.319	VV	1171	13205	0.20%	0.012%
53	6.340	6.319	6.420	VV	6456	125527	1.89%	0.114%
54	6.440	6.420	6.481	VV	4171	42654	0.64%	0.039%
55	6.506	6.481	6.547	PV	3748	69005	1.04%	0.063%
56	6.555	6.547	6.570	VV	576	6255	0.09%	0.006%
57	6.595	6.570	6.614	VV	1456	20710	0.31%	0.019%
58	6.632	6.614	6.646	VV	1912	25878	0.39%	0.024%
59	6.662	6.646	6.681	VV	3710	39432	0.59%	0.036%
60	6.696	6.681	6.712	VV	800	8939	0.13%	0.008%
61	6.734	6.712	6.762	VV	1498	19656	0.30%	0.018%
62	6.796	6.762	6.818	VV	2898	30816	0.46%	0.028%
63	6.838	6.818	6.852	PV	497	5528	0.08%	0.005%
64	6.867	6.852	6.882	VV	934	11581	0.17%	0.011%
65	6.888	6.882	6.898	VV	613	5538	0.08%	0.005%
66	6.916	6.898	6.934	VV	2107	24220	0.36%	0.022%
67	6.953	6.934	6.975	VV	1918	23016	0.35%	0.021%
68	7.007	6.975	7.021	VV	1918	30373	0.46%	0.028%
69	7.095	7.021	7.112	VV	3882	105272	1.58%	0.096%
70	7.138	7.112	7.158	VV	9405	103421	1.56%	0.094%
71	7.171	7.158	7.209	VV	1261	16955	0.25%	0.015%
72	7.244	7.209	7.257	PV	523	6936	0.10%	0.006%
73	7.275	7.257	7.283	VV	3553	33178	0.50%	0.030%
74	7.295	7.283	7.317	VV	4223	47801	0.72%	0.043%
75	7.334	7.317	7.363	VV	1490	24982	0.38%	0.023%
76	7.374	7.363	7.385	VV	542	5436	0.08%	0.005%
77	7.400	7.385	7.415	VV	1005	11330	0.17%	0.010%
78	7.433	7.415	7.456	VV	1563	23034	0.35%	0.021%
79	7.470	7.456	7.484	VV	710	8467	0.13%	0.008%
80	7.503	7.484	7.514	VV	1343	16931	0.25%	0.015%
81	7.523	7.514	7.544	VV	1668	16460	0.25%	0.015%
82	7.570	7.544	7.604	VV	536	12554	0.19%	0.011%
83	7.662	7.604	7.680	VV	942	27429	0.41%	0.025%
84	7.695	7.680	7.714	VV	1742	21627	0.33%	0.020%
85	7.751	7.714	7.824	VV	660878	6394079	96.15%	5.811%
86	7.843	7.824	7.870	VV	1476	30108	0.45%	0.027%
87	7.879	7.870	7.902	VV	1059	15585	0.23%	0.014%
88	7.916	7.902	7.930	VV	1011	13593	0.20%	0.012%
89	7.951	7.930	7.975	VV	1202	22340	0.34%	0.020%

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90	7.999	7.975	8.017	VV	2340	33959	0.51%	0.031%
91	8.025	8.017	8.040	VV	1155	14357	0.22%	0.013%
92	8.087	8.040	8.105	VV	2101	52417	0.79%	0.048%
93	8.126	8.105	8.173	VV	1305	41965	0.63%	0.038%
94	8.197	8.173	8.217	VV	1467	28478	0.43%	0.026%
95	8.236	8.217	8.250	VV	1295	23703	0.36%	0.022%
96	8.268	8.250	8.280	VV	1680	26751	0.40%	0.024%
97	8.302	8.280	8.340	VV	3234	70335	1.06%	0.064%
98	8.390	8.340	8.405	VV	3051	87602	1.32%	0.080%
99	8.432	8.405	8.479	VV	2805	84407	1.27%	0.077%
100	8.494	8.479	8.516	VV	2311	38901	0.58%	0.035%
101	8.532	8.516	8.550	VV	1798	29213	0.44%	0.027%
102	8.557	8.550	8.572	VV	1259	15430	0.23%	0.014%
103	8.616	8.572	8.644	VV	378211	3717290	55.90%	3.378%
104	8.666	8.644	8.693	VV	2690	61187	0.92%	0.056%
105	8.712	8.693	8.749	VV	3176	71775	1.08%	0.065%
106	8.759	8.749	8.775	VV	1783	22211	0.33%	0.020%
107	8.788	8.775	8.797	VV	1530	17730	0.27%	0.016%
108	8.814	8.797	8.826	VV	1863	26874	0.40%	0.024%
109	8.850	8.826	8.877	VV	1871	47550	0.72%	0.043%
110	8.915	8.877	8.939	VV	1276	39275	0.59%	0.036%
111	8.960	8.939	8.977	VV	1972	34932	0.53%	0.032%
112	8.984	8.977	8.997	VV	1726	18108	0.27%	0.016%
113	9.021	8.997	9.045	VV	74163	745475	11.21%	0.677%
114	9.056	9.045	9.069	VV	2312	29068	0.44%	0.026%
115	9.104	9.069	9.124	VV	3210	80657	1.21%	0.073%
116	9.141	9.124	9.164	VV	3609	64027	0.96%	0.058%
117	9.175	9.164	9.199	VV	2689	39043	0.59%	0.035%
118	9.227	9.199	9.247	VV	2014	42528	0.64%	0.039%
119	9.263	9.247	9.287	VV	1439	30883	0.46%	0.028%
120	9.306	9.287	9.325	VV	2635	42915	0.65%	0.039%
121	9.339	9.325	9.359	VV	1684	29148	0.44%	0.026%
122	9.371	9.359	9.388	VV	1902	29321	0.44%	0.027%
123	9.404	9.388	9.411	VV	1906	23306	0.35%	0.021%
124	9.428	9.411	9.445	VV	2047	35079	0.53%	0.032%
125	9.460	9.445	9.472	VV	2171	28256	0.42%	0.026%
126	9.489	9.472	9.549	VV	2948	84702	1.27%	0.077%
127	9.580	9.549	9.614	VV	2252	64104	0.96%	0.058%
128	9.621	9.614	9.636	VV	1442	18583	0.28%	0.017%
129	9.674	9.636	9.689	VV	2747	58148	0.87%	0.053%
130	9.737	9.689	9.756	VV	6623	142978	2.15%	0.130%
131	9.770	9.756	9.790	VV	4795	66672	1.00%	0.061%
132	9.825	9.790	9.854	VV	3981	117345	1.76%	0.107%
133	9.863	9.854	9.876	VV	2852	35725	0.54%	0.032%
134	9.896	9.876	9.910	VV	5830	85101	1.28%	0.077%
135	9.926	9.910	9.950	VV	5697	101808	1.53%	0.093%
136	9.968	9.950	9.984	VV	4310	70061	1.05%	0.064%
137	10.016	9.984	10.029	VV	3249	84404	1.27%	0.077%
138	10.062	10.029	10.077	VV	4880	127686	1.92%	0.116%
139	10.092	10.077	10.101	VV	4984	64123	0.96%	0.058%
140	10.124	10.101	10.162	VV	9615	254831	3.83%	0.232%
141	10.198	10.162	10.211	VV	6463	142408	2.14%	0.129%

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142	10.236	10.211	10.254	VV	8235	174865	2.63%	0.159%
143	10.269	10.254	10.278	VV	8128	102793	1.55%	0.093%
144	10.290	10.278	10.345	VV	9012	236070	3.55%	0.215%
145	10.376	10.345	10.397	VV	15312	268315	4.03%	0.244%
146	10.415	10.397	10.435	VV	6772	139093	2.09%	0.126%
147	10.457	10.435	10.480	VV	15352	238908	3.59%	0.217%
148	10.502	10.480	10.519	VV	7299	144571	2.17%	0.131%
149	10.566	10.519	10.580	VV	18279	412495	6.20%	0.375%
150	10.593	10.580	10.615	VV	16719	237717	3.57%	0.216%
151	10.629	10.615	10.645	VV	6721	113974	1.71%	0.104%
152	10.669	10.645	10.714	VV	10296	299816	4.51%	0.272%
153	10.751	10.714	10.769	VV	11082	266072	4.00%	0.242%
154	10.787	10.769	10.837	VV	11648	352172	5.30%	0.320%
155	10.889	10.837	10.934	VV	12022	457170	6.87%	0.415%
156	10.958	10.934	10.980	VV	11141	241552	3.63%	0.220%
157	11.020	10.980	11.040	VV	13160	314353	4.73%	0.286%
158	11.053	11.040	11.072	VV	7846	141607	2.13%	0.129%
159	11.082	11.072	11.097	VV	7622	103216	1.55%	0.094%
160	11.115	11.097	11.131	VV	7418	133229	2.00%	0.121%
161	11.148	11.131	11.165	VV	9279	152371	2.29%	0.138%
162	11.191	11.165	11.209	VV	7955	192013	2.89%	0.174%
163	11.231	11.209	11.247	VV	10554	204750	3.08%	0.186%
164	11.279	11.247	11.297	VV	20990	409122	6.15%	0.372%
165	11.320	11.297	11.348	VV	14024	359593	5.41%	0.327%
166	11.361	11.348	11.381	VV	10096	179851	2.70%	0.163%
167	11.414	11.381	11.422	VV	16898	298005	4.48%	0.271%
168	11.436	11.422	11.459	VV	19102	316078	4.75%	0.287%
169	11.488	11.459	11.508	VV	23609	484011	7.28%	0.440%
170	11.524	11.508	11.537	VV	18741	278620	4.19%	0.253%
171	11.566	11.537	11.591	VV	22771	638200	9.60%	0.580%
172	11.605	11.591	11.625	VV	18857	320724	4.82%	0.291%
173	11.658	11.625	11.684	VV	583048	6650345	100.00%	6.044%
174	11.693	11.684	11.703	VV	16506	174664	2.63%	0.159%
175	11.724	11.703	11.760	VV	32347	777470	11.69%	0.707%
176	11.782	11.760	11.825	VV	28329	928528	13.96%	0.844%
177	11.831	11.825	11.855	VV	20950	312565	4.70%	0.284%
178	11.893	11.855	11.936	VV	42347	1205403	18.13%	1.095%
179	11.971	11.936	11.998	VV	82004	1445893	21.74%	1.314%
180	12.017	11.998	12.038	VV	32373	604084	9.08%	0.549%
181	12.052	12.038	12.068	VV	22944	383580	5.77%	0.349%
182	12.087	12.068	12.119	VV	30559	772855	11.62%	0.702%
183	12.143	12.119	12.170	VV	37138	856149	12.87%	0.778%
184	12.179	12.170	12.213	VV	19008	466028	7.01%	0.424%
185	12.253	12.213	12.317	VV	145146	2792369	41.99%	2.538%
186	12.344	12.317	12.370	VV	21893	649509	9.77%	0.590%
187	12.392	12.370	12.414	VV	32875	661888	9.95%	0.601%
188	12.426	12.414	12.443	VV	22016	359573	5.41%	0.327%
189	12.452	12.443	12.465	VV	19023	245883	3.70%	0.223%
190	12.501	12.465	12.557	VV	19304	954920	14.36%	0.868%
191	12.583	12.557	12.600	VV	20549	455302	6.85%	0.414%
192	12.631	12.600	12.655	VV	45008	868074	13.05%	0.789%
193	12.700	12.655	12.723	VV	35048	923410	13.89%	0.839%
194	12.739	12.723	12.750	VV	18133	284196	4.27%	0.258%

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195	12.779	12.750	12.795	VV	19750	517181	7.78%	0.470%
196	12.808	12.795	12.830	VV	19976	377524	5.68%	0.343%
197	12.852	12.830	12.882	VV	18912	543250	8.17%	0.494%
198	12.902	12.882	12.924	VV	17412	415491	6.25%	0.378%
199	12.998	12.924	13.022	VV	37523	1267095	19.05%	1.151%
200	13.049	13.022	13.056	VV	21472	411757	6.19%	0.374%
201	13.081	13.056	13.118	VV	83984	1442969	21.70%	1.311%
202	13.125	13.118	13.140	VV	18159	241195	3.63%	0.219%
203	13.147	13.140	13.171	VV	18198	323502	4.86%	0.294%
204	13.211	13.171	13.234	VV	23700	782308	11.76%	0.711%
205	13.250	13.234	13.280	VV	22146	528124	7.94%	0.480%
206	13.299	13.280	13.315	VV	22039	418205	6.29%	0.380%
207	13.346	13.315	13.365	VV	23811	629160	9.46%	0.572%
208	13.381	13.365	13.396	VV	22159	400266	6.02%	0.364%
209	13.412	13.396	13.434	VV	22519	479491	7.21%	0.436%
210	13.481	13.434	13.515	VV	70422	1764563	26.53%	1.604%
211	13.528	13.515	13.559	VV	36010	792603	11.92%	0.720%
212	13.586	13.559	13.605	VV	24995	657348	9.88%	0.597%
213	13.627	13.605	13.644	VV	27551	586478	8.82%	0.533%
214	13.674	13.644	13.714	VV	23681	936979	14.09%	0.851%
215	13.735	13.714	13.755	VV	24135	566157	8.51%	0.514%
216	13.769	13.755	13.793	VV	24781	500839	7.53%	0.455%
217	13.833	13.793	13.855	VV	23646	803057	12.08%	0.730%
218	13.877	13.855	13.887	VV	26776	459289	6.91%	0.417%
219	13.897	13.887	13.921	VV	25380	493182	7.42%	0.448%
220	13.940	13.921	13.960	VV	26830	549325	8.26%	0.499%
221	13.992	13.960	14.020	VV	28866	908534	13.66%	0.826%
222	14.031	14.020	14.040	VV	22331	266059	4.00%	0.242%
223	14.076	14.040	14.129	VV	27743	1250779	18.81%	1.137%
224	14.149	14.129	14.173	VV	21545	543669	8.18%	0.494%
225	14.199	14.173	14.224	VV	23177	646433	9.72%	0.587%
226	14.263	14.224	14.295	VV	31815	1062708	15.98%	0.966%
227	14.331	14.295	14.362	VV	24662	848378	12.76%	0.771%
228	14.397	14.362	14.405	VV	23577	560003	8.42%	0.509%
229	14.427	14.405	14.447	VV	31302	669540	10.07%	0.608%
230	14.457	14.447	14.467	VV	23185	277713	4.18%	0.252%
231	14.485	14.467	14.500	VV	28045	506218	7.61%	0.460%
232	14.514	14.500	14.540	VV	26470	561900	8.45%	0.511%
233	14.561	14.540	14.600	VV	28596	823434	12.38%	0.748%
234	14.621	14.600	14.659	VV	25489	767601	11.54%	0.698%
235	14.689	14.659	14.712	VV	32071	802400	12.07%	0.729%
236	14.743	14.712	14.785	VV	26436	974075	14.65%	0.885%
237	14.837	14.785	14.857	VV	34414	981108	14.75%	0.892%
238	14.921	14.857	14.939	VV	30155	1292925	19.44%	1.175%
239	14.953	14.939	14.992	VV	23832	724937	10.90%	0.659%
240	15.006	14.992	15.017	VV	20785	297299	4.47%	0.270%
241	15.036	15.017	15.048	VV	23829	420381	6.32%	0.382%
242	15.067	15.048	15.107	VV	28912	794750	11.95%	0.722%
243	15.163	15.107	15.202	VV	31453	1434349	21.57%	1.303%
244	15.219	15.202	15.226	VV	23648	322647	4.85%	0.293%
245	15.242	15.226	15.262	VV	29182	522909	7.86%	0.475%
246	15.272	15.262	15.300	VV	21389	432151	6.50%	0.393%

rteres

247	15.328	15.300	15.348	VV	22546	538088	8.09%	0.489%
248	15.401	15.348	15.415	VV	33238	1072388	16.13%	0.975%
249	15.427	15.415	15.477	VV	30171	914015	13.74%	0.831%
250	15.504	15.477	15.530	VV	21070	569259	8.56%	0.517%
251	15.542	15.530	15.556	VV	15341	238527	3.59%	0.217%
252	15.577	15.556	15.595	VV	17326	377959	5.68%	0.343%
253	15.621	15.595	15.656	VV	36539	948249	14.26%	0.862%
254	15.682	15.656	15.710	VV	30618	801411	12.05%	0.728%
255	15.724	15.710	15.742	VV	21062	361907	5.44%	0.329%
256	15.761	15.742	15.797	VV	21576	609160	9.16%	0.554%
257	15.811	15.797	15.829	VV	17550	314513	4.73%	0.286%
258	15.870	15.829	15.888	VV	27955	731076	10.99%	0.664%
259	15.923	15.888	15.961	VV	27060	922594	13.87%	0.838%
260	15.981	15.961	16.016	VV	18217	471852	7.10%	0.429%
261	16.056	16.016	16.066	VV	13568	363048	5.46%	0.330%
262	16.111	16.066	16.132	VV	21783	687249	10.33%	0.625%
263	16.156	16.132	16.213	VV	24450	881804	13.26%	0.801%
264	16.237	16.213	16.262	VV	16242	392123	5.90%	0.356%
265	16.276	16.262	16.296	VV	13412	253081	3.81%	0.230%
266	16.344	16.296	16.376	VV	19081	690874	10.39%	0.628%
267	16.398	16.376	16.429	VV	20271	495439	7.45%	0.450%
268	16.443	16.429	16.475	VV	13361	285084	4.29%	0.259%
269	16.507	16.475	16.517	VV	9921	224480	3.38%	0.204%
270	16.531	16.517	16.545	VV	10466	164706	2.48%	0.150%
271	16.568	16.545	16.595	VV	14679	359604	5.41%	0.327%
272	16.615	16.595	16.631	VV	15987	296785	4.46%	0.270%
273	16.646	16.631	16.674	VV	15729	292994	4.41%	0.266%
274	16.702	16.674	16.728	VV	10733	294996	4.44%	0.268%
275	16.738	16.728	16.762	VV	8716	161930	2.43%	0.147%
276	16.801	16.762	16.832	VV	11126	373196	5.61%	0.339%
277	16.859	16.832	16.881	VV	12091	264366	3.98%	0.240%
278	16.894	16.881	16.927	VV	7280	166057	2.50%	0.151%
279	16.942	16.927	16.987	VV	5225	174652	2.63%	0.159%
280	17.017	16.987	17.042	VV	7231	195803	2.94%	0.178%
281	17.064	17.042	17.089	VV	6988	164975	2.48%	0.150%
282	17.106	17.089	17.126	VV	7884	134844	2.03%	0.123%
283	17.151	17.126	17.177	VV	5977	137772	2.07%	0.125%
284	17.200	17.177	17.210	VV	4189	75115	1.13%	0.068%
285	17.250	17.210	17.275	VV	5407	162392	2.44%	0.148%
286	17.305	17.275	17.372	VV	5521	200706	3.02%	0.182%
287	17.452	17.372	17.477	VV	4044	150467	2.26%	0.137%
288	17.496	17.477	17.525	VV	3027	67440	1.01%	0.061%
289	17.548	17.525	17.569	VV	3730	68969	1.04%	0.063%
290	17.578	17.569	17.599	VV	2619	35470	0.53%	0.032%
291	17.618	17.599	17.665	VV	1457	46959	0.71%	0.043%
292	17.683	17.665	17.715	VV	1833	38730	0.58%	0.035%
293	17.742	17.715	17.757	VV	2426	44792	0.67%	0.041%
294	17.774	17.757	17.811	VV	2362	47278	0.71%	0.043%
295	17.819	17.811	17.829	VV	541	4994	0.08%	0.005%
296	17.867	17.829	17.899	VV	1009	29297	0.44%	0.027%
297	17.936	17.899	17.954	VV	1906	39214	0.59%	0.036%
298	17.975	17.954	18.025	VV	2287	52190	0.78%	0.047%
299	18.058	18.025	18.089	VV	1241	28153	0.42%	0.026%

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300	18.105	18.089	18.117	VV	690	8492	0.13%	0.008%
301	18.153	18.117	18.175	VV	2027	44832	0.67%	0.041%
302	18.194	18.175	18.222	VV	2033	31981	0.48%	0.029%
303	18.302	18.222	18.358	VV	1379	39422	0.59%	0.036%
304	18.405	18.358	18.434	PV	1199	28196	0.42%	0.026%
305	18.447	18.434	18.467	VV	548	7912	0.12%	0.007%
306	18.539	18.467	18.549	VV	727	22111	0.33%	0.020%
307	18.605	18.549	18.625	VV	2254	55753	0.84%	0.051%
308	18.632	18.625	18.694	VV	1235	25936	0.39%	0.024%
309	18.719	18.694	18.737	VV	908	18482	0.28%	0.017%
310	18.769	18.737	18.792	VV	1437	27712	0.42%	0.025%
311	18.814	18.792	18.840	VV	752	17503	0.26%	0.016%
312	18.857	18.840	18.870	VV	673	9496	0.14%	0.009%
313	18.900	18.870	18.922	PV	1056	18787	0.28%	0.017%
314	19.000	18.922	19.029	VV	2153	73009	1.10%	0.066%
315	19.053	19.029	19.067	VV	1190	21572	0.32%	0.020%
316	19.074	19.067	19.104	VV	981	18026	0.27%	0.016%
317	19.127	19.104	19.137	VV	1193	18714	0.28%	0.017%
318	19.176	19.137	19.207	VV	2083	54954	0.83%	0.050%
319	19.212	19.207	19.222	VV	1148	9081	0.14%	0.008%
320	19.249	19.222	19.265	VV	1374	30541	0.46%	0.028%
321	19.313	19.265	19.335	VV	1697	62283	0.94%	0.057%
322	19.382	19.335	19.407	VV	3420	97024	1.46%	0.088%
323	19.415	19.407	19.424	VV	2089	19155	0.29%	0.017%
324	19.435	19.424	19.451	VV	2003	30482	0.46%	0.028%
325	19.557	19.451	19.577	VV	2626	163143	2.45%	0.148%
326	19.616	19.577	19.645	VV	2607	99103	1.49%	0.090%
327	19.686	19.645	19.722	VV	3874	143683	2.16%	0.131%
328	19.751	19.722	19.790	VV	4410	149567	2.25%	0.136%
329	19.827	19.790	19.838	VV	3522	96608	1.45%	0.088%
330	19.936	19.838	19.967	VV	4447	301939	4.54%	0.274%
331	19.982	19.967	19.992	VV	4405	64717	0.97%	0.059%
332	20.033	19.992	20.061	VV	6798	221516	3.33%	0.201%
333	20.119	20.061	20.139	VV	6156	247816	3.73%	0.225%
334	20.173	20.139	20.215	VV	7048	282480	4.25%	0.257%
335	20.303	20.215	20.319	VV	6851	399850	6.01%	0.363%
336	20.394	20.319	20.405	VV	7177	359311	5.40%	0.327%
337	20.423	20.405	20.440	VV	7258	148190	2.23%	0.135%
338	20.474	20.440	20.502	VV	7766	273750	4.12%	0.249%
339	20.513	20.502	20.557	VV	7680	243964	3.67%	0.222%
340	20.578	20.557	20.602	VV	7448	199409	3.00%	0.181%
341	20.655	20.602	20.785	VV	8906	796841	11.98%	0.724%
342	20.799	20.785	20.824	VV	6508	145515	2.19%	0.132%
343	20.847	20.824	20.917	VV	6637	345756	5.20%	0.314%
344	20.921	20.917	20.990	VV	5868	239443	3.60%	0.218%
345	20.999	20.990	21.065	VV	5122	218241	3.28%	0.198%
346	21.075	21.065	21.129	VV	4832	175249	2.64%	0.159%
347	21.135	21.129	21.155	VV	4379	69646	1.05%	0.063%
348	21.196	21.155	21.250	VV	4835	245507	3.69%	0.223%
349	21.287	21.250	21.325	VV	4009	168037	2.53%	0.153%
350	21.332	21.325	21.347	VV	3502	44471	0.67%	0.040%
351	21.358	21.347	21.387	VV	3421	78847	1.19%	0.072%

rteres

352	21.389	21.387	21.474	VV	3295	155548	2.34%	0.141%
353	21.480	21.474	21.487	VV	2808	21574	0.32%	0.020%
354	21.494	21.487	21.565	VV	2760	116497	1.75%	0.106%
355	21.571	21.565	21.647	VV	2457	106042	1.59%	0.096%
356	21.657	21.647	21.672	VV	2070	29735	0.45%	0.027%
357	21.677	21.672	21.690	VV	2039	20825	0.31%	0.019%
358	21.701	21.690	21.725	VV	1910	37790	0.57%	0.034%
359	21.781	21.725	21.813	VV	2254	99227	1.49%	0.090%
360	21.840	21.813	21.924	VV	2067	99275	1.49%	0.090%
361	21.931	21.924	21.975	VV	1368	33729	0.51%	0.031%
362	21.991	21.975	22.034	VV	1020	29214	0.44%	0.027%
363	22.045	22.034	22.060	VV	705	8728	0.13%	0.008%
364	22.072	22.060	22.081	VV	630	6447	0.10%	0.006%
365	22.091	22.081	22.119	VV	743	10252	0.15%	0.009%
366	22.126	22.119	22.143	VV	500	5828	0.09%	0.005%
367	22.158	22.143	22.169	VV	378	3693	0.06%	0.003%

Sum of corrected areas: 110040742

Aromatic EPH 040725.M Thu Apr 10 02:36:59 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068547.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 08:48
Operator : YP/AJ
Sample : Q1746-05DL 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-158-GW01DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/11/2025
Supervised By :mohammad ahmed 04/14/2025

Integration File: autoint1.e
Quant Time: Apr 11 03:41:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.143	491634	5.292 ug/mlm
Spiked Amount 50.000		Recovery = 10.58%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Sample Results: **FC068547.D**

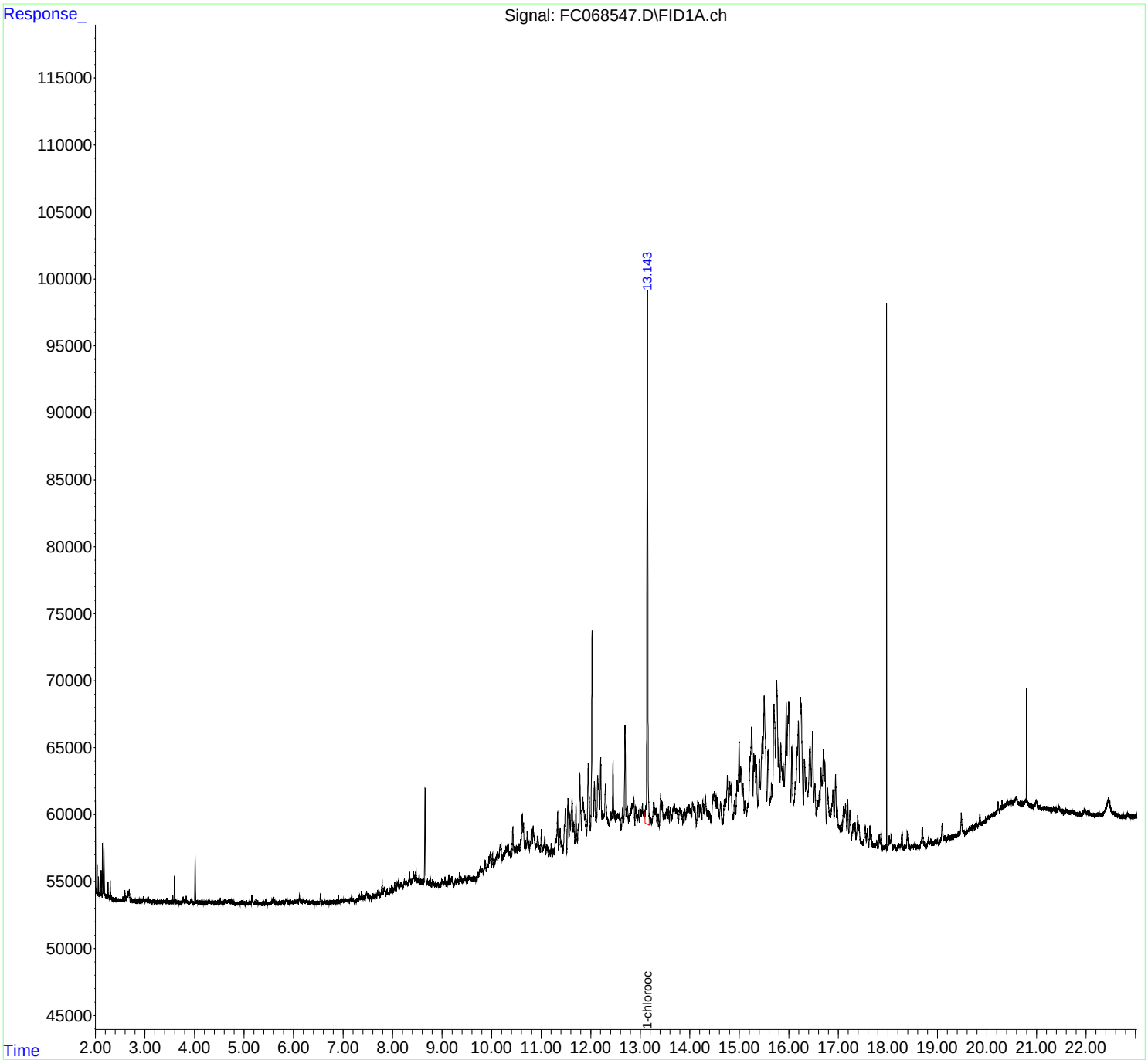
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068547.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 08:48
Operator : YP/AJ
Sample : Q1746-05DL 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

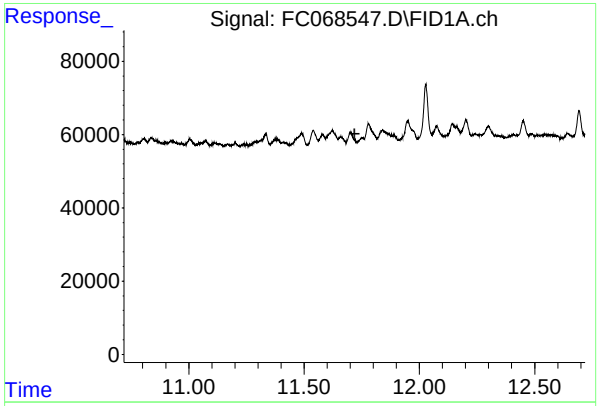
Instrument :
FID_C
ClientSampleId :
B-158-GW01DL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/11/2025
Supervised By :mohammad ahmed 04/14/2025

Integration File: autoint1.e
Quant Time: Apr 11 03:41:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





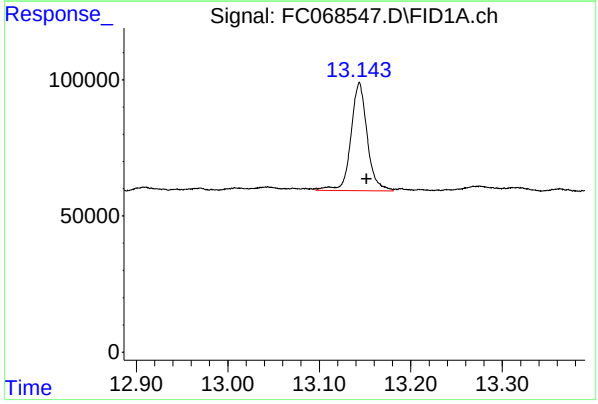
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-158-GW01DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 04/11/2025
Supervised By :mohammad ahmed 04/14/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.143 min
Delta R.T.: -0.008 min
Response: 491634
Conc: 5.29 ug/ml m

Instrument :
FID_C
ClientSampleId :
B-158-GW01DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/11/2025
Supervised By :mohammad ahmed 04/14/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC04112
Data File : FC068547.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 08:48
Sample : Q1746-05DL 10X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.598	3.504	3.634	PV	1665	1511	0.16%	0.005%
2	4.014	3.969	4.102	PV	3201	10235	1.09%	0.032%
3	7.332	7.308	7.353	PH	275	2950	0.31%	0.009%
4	7.375	7.353	7.411	HH	515	7659	0.81%	0.024%
5	7.434	7.411	7.449	HH	197	3137	0.33%	0.010%
6	7.475	7.449	7.523	HH	558	13074	1.39%	0.041%
7	7.540	7.523	7.574	HH	340	5552	0.59%	0.018%
8	7.604	7.574	7.642	HH	437	10867	1.16%	0.034%
9	7.656	7.642	7.681	HH	321	6726	0.72%	0.021%
10	7.699	7.681	7.712	HH	637	8580	0.91%	0.027%
11	7.727	7.712	7.745	HH	493	8243	0.88%	0.026%
12	7.789	7.745	7.810	HH	1203	25361	2.70%	0.080%
13	7.837	7.810	7.868	HH	838	22482	2.39%	0.071%
14	7.891	7.868	7.921	HH	653	16814	1.79%	0.053%
15	7.953	7.921	7.963	HH	720	14113	1.50%	0.045%
16	7.986	7.963	8.007	HH	986	21334	2.27%	0.068%
17	8.042	8.007	8.064	HH	1215	29635	3.15%	0.094%
18	8.096	8.064	8.107	HH	1231	25898	2.75%	0.082%
19	8.125	8.107	8.147	HH	1361	28151	2.99%	0.089%
20	8.165	8.147	8.204	HH	1275	37404	3.98%	0.118%
21	8.238	8.204	8.268	HH	1454	46084	4.90%	0.146%
22	8.279	8.268	8.304	HH	1295	27179	2.89%	0.086%
23	8.342	8.304	8.378	HH	1942	62734	6.67%	0.199%
24	8.394	8.378	8.405	HH	1498	22867	2.43%	0.072%
25	8.428	8.405	8.446	HH	1944	40919	4.35%	0.130%
26	8.474	8.446	8.498	HH	2278	54508	5.79%	0.173%
27	8.537	8.498	8.557	HH	1780	53174	5.65%	0.168%
28	8.568	8.557	8.581	HH	1505	19892	2.11%	0.063%
29	8.601	8.581	8.614	HH	1345	25957	2.76%	0.082%
30	8.656	8.614	8.683	HH	8234	120024	12.76%	0.380%
31	8.705	8.683	8.741	HH	1426	44634	4.75%	0.141%
32	8.762	8.741	8.781	HH	1518	31763	3.38%	0.101%
33	8.802	8.781	8.814	HH	1400	24013	2.55%	0.076%
34	8.824	8.814	8.851	HH	1279	26005	2.76%	0.082%
35	8.865	8.851	8.890	HH	1253	26433	2.81%	0.084%
36	8.924	8.890	8.943	HH	1217	35926	3.82%	0.114%

Instrument :
FID_C
ClientSampleId :
B-158-GW01DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/11/2025
Supervised By :mohammad ahmed 04/14/2025

rteres

37	9.002	8.943	9.024	HH	1429	58746	6.25%	0.186%
38	9.060	9.024	9.084	HH	1637	47628	5	
39	9.099	9.084	9.114	HH	1316	22496	2	
40	9.138	9.114	9.159	HH	1780	38139	4	
41	9.198	9.159	9.236	HH	1669	63250	6	
42	9.270	9.236	9.292	HH	1547	43891	4	
43	9.312	9.292	9.331	HH	1520	32810	3.49%	0.104%
44	9.352	9.331	9.371	HH	1958	38858	4.13%	0.123%
45	9.382	9.371	9.437	HH	1642	56795	6.04%	0.180%
46	9.452	9.437	9.466	HH	1629	27218	2.89%	0.086%
47	9.473	9.466	9.484	HH	1564	17047	1.81%	0.054%
48	9.504	9.484	9.517	HH	1631	28899	3.07%	0.091%
49	9.628	9.613	9.678	HH	1703	60485	6.43%	0.191%
50	9.695	9.678	9.707	HH	1682	27531	2.93%	0.087%
51	9.774	9.740	9.798	HH	2415	74899	7.96%	0.237%
52	9.814	9.798	9.832	HH	2293	44227	4.70%	0.140%
53	9.870	9.832	9.893	HH	2882	89364	9.50%	0.283%
54	9.912	9.893	9.931	HH	2519	55041	5.85%	0.174%
55	9.946	9.931	9.956	HH	3093	43765	4.65%	0.139%
56	9.973	9.956	9.996	HH	3487	72484	7.71%	0.229%
57	10.017	9.996	10.036	HH	3376	69566	7.40%	0.220%
58	10.053	10.036	10.064	HH	2833	45823	4.87%	0.145%
59	10.111	10.064	10.127	HH	3522	118018	12.55%	0.374%
60	10.178	10.127	10.209	HH	4076	174314	18.53%	0.552%
61	10.219	10.209	10.229	HH	3209	37265	3.96%	0.118%
62	10.252	10.229	10.262	HH	3431	67283	7.15%	0.213%
63	10.288	10.262	10.301	HH	3875	84365	8.97%	0.267%
64	10.320	10.301	10.331	HH	3965	68580	7.29%	0.217%
65	10.339	10.331	10.397	HH	4049	139194	14.80%	0.441%
66	10.427	10.397	10.449	HH	5391	129891	13.81%	0.411%
67	10.473	10.449	10.488	HH	3979	87878	9.34%	0.278%
68	10.510	10.488	10.528	HH	3972	90528	9.62%	0.287%
69	10.554	10.528	10.565	HH	4036	86987	9.25%	0.275%
70	10.619	10.565	10.635	HH	6253	204771	21.77%	0.648%
71	10.643	10.635	10.665	HH	5600	88201	9.38%	0.279%
72	10.681	10.665	10.697	HH	4371	76661	8.15%	0.243%
73	10.718	10.697	10.738	HH	4915	107346	11.41%	0.340%
74	10.744	10.738	10.763	HH	4226	61430	6.53%	0.194%
75	10.806	10.763	10.821	HH	5198	155205	16.50%	0.491%
76	10.838	10.821	10.888	HH	5450	187302	19.91%	0.593%
77	10.899	10.888	10.906	HH	4070	44484	4.73%	0.141%
78	10.925	10.906	10.982	HH	4712	186423	19.82%	0.590%
79	11.004	10.982	11.031	HH	5153	124812	13.27%	0.395%
80	11.073	11.031	11.093	HH	4647	149425	15.89%	0.473%
81	11.113	11.093	11.125	HH	4001	74671	7.94%	0.236%
82	11.132	11.125	11.150	HH	3864	52635	5.60%	0.167%
83	11.170	11.150	11.182	HH	3699	68757	7.31%	0.218%
84	11.201	11.182	11.221	HH	4081	84186	8.95%	0.267%
85	11.239	11.221	11.262	HH	3644	85792	9.12%	0.272%
86	11.333	11.262	11.353	HH	6527	253563	26.96%	0.803%
87	11.381	11.353	11.402	HH	5124	134454	14.29%	0.426%
88	11.410	11.402	11.441	HH	4303	92709	9.86%	0.294%
89	11.540	11.514	11.562	HH	7530	160924	17.11%	0.509%

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rteres

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90	11.579	11.562	11.593	HH	6418	105899	11.26%	0.335%
91	11.623	11.593	11.648	HH	7405	209038	22	
92	11.659	11.648	11.682	HH	5721	105590	11	
93	11.701	11.682	11.731	HH	7002	161007	17	
94	11.841	11.817	11.884	HH	7612	266932	28	
95	11.890	11.884	11.911	HH	6205	88774	9	
96	11.949	11.911	11.991	HH	9987	343829	36.55%	1.089%
97	12.028	11.991	12.055	HH	19959	401809	42.72%	1.272%
98	12.075	12.055	12.111	HH	8616	236554	25.15%	0.749%
99	12.143	12.111	12.178	HH	9159	309799	32.94%	0.981%
100	12.202	12.178	12.227	HH	10501	236781	25.17%	0.750%
101	12.241	12.227	12.271	HH	6623	167398	17.80%	0.530%
102	12.408	12.378	12.418	HH	6497	145000	15.42%	0.459%
103	12.487	12.474	12.502	HH	6474	103796	11.03%	0.329%
104	12.511	12.502	12.522	HH	6115	72628	7.72%	0.230%
105	12.546	12.522	12.560	HH	6350	141817	15.08%	0.449%
106	12.571	12.560	12.613	HH	6379	192422	20.46%	0.609%
107	12.644	12.613	12.664	HH	6757	185856	19.76%	0.588%
108	12.692	12.664	12.716	HH	12960	264327	28.10%	0.837%
109	12.739	12.716	12.761	HH	6941	178603	18.99%	0.565%
110	12.831	12.761	12.840	HH	6989	305835	32.51%	0.968%
111	12.849	12.840	12.854	HH	7038	59912	6.37%	0.190%
112	12.870	12.854	12.890	HH	7451	149728	15.92%	0.474%
113	12.909	12.890	12.950	HH	6944	225235	23.95%	0.713%
114	12.968	12.950	12.990	HH	6495	148370	15.77%	0.470%
115	13.009	12.990	13.024	HH	6663	132271	14.06%	0.419%
116	13.043	13.024	13.094	HH	6967	274043	29.13%	0.868%
117	13.144	13.094	13.224	HH	45244	940626	100.00%	2.978%
118	13.274	13.224	13.304	HH	7308	314228	33.41%	0.995%
119	13.362	13.344	13.384	HH	6289	141456	15.04%	0.448%
120	13.413	13.384	13.433	HH	7786	200676	21.33%	0.635%
121	13.443	13.433	13.462	HH	7266	120115	12.77%	0.380%
122	13.475	13.462	13.484	HH	6414	83598	8.89%	0.265%
123	13.492	13.484	13.508	HH	6283	86839	9.23%	0.275%
124	13.531	13.508	13.558	HH	6691	192564	20.47%	0.610%
125	13.571	13.558	13.589	HH	6868	121912	12.96%	0.386%
126	13.607	13.589	13.625	HH	6870	134256	14.27%	0.425%
127	13.636	13.625	13.641	HH	6224	59199	6.29%	0.187%
128	13.688	13.641	13.712	HH	7068	284038	30.20%	0.899%
129	13.727	13.712	13.769	HH	6719	220335	23.42%	0.698%
130	13.800	13.769	13.819	HH	6733	194016	20.63%	0.614%
131	13.831	13.819	13.854	HH	6607	134599	14.31%	0.426%
132	13.897	13.854	13.918	HH	6524	238721	25.38%	0.756%
133	13.945	13.918	13.961	HH	6829	169646	18.04%	0.537%
134	13.985	13.961	14.031	HH	7093	281765	29.95%	0.892%
135	14.056	14.031	14.090	HH	7238	239706	25.48%	0.759%
136	14.100	14.090	14.131	HH	6856	157870	16.78%	0.500%
137	14.174	14.131	14.192	HH	7137	240570	25.58%	0.762%
138	14.207	14.192	14.243	HH	6968	202186	21.49%	0.640%
139	14.262	14.243	14.284	HH	7347	171622	18.25%	0.543%
140	14.315	14.284	14.355	HH	7489	293843	31.24%	0.930%
141	14.375	14.355	14.392	HH	6535	139675	14.85%	0.442%

Instrument :
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142	14.401	14.392	14.424	HH	6345	121653	12.93%	0.385%
143	14.492	14.424	14.511	HH	8015	369278	39	
144	14.529	14.511	14.548	HH	7722	163835	17	
145	14.562	14.548	14.601	HH	7525	218633	23	
146	14.621	14.601	14.668	HH	7157	255146	27	
147	14.699	14.668	14.712	HH	7439	177957	18	
148	14.757	14.712	14.782	HH	9245	324497	34.50%	1.027%
149	14.808	14.782	14.828	HH	8706	222339	23.64%	0.704%
150	14.836	14.828	14.878	HH	8561	207426	22.05%	0.657%
151	14.904	14.878	14.926	HH	7326	196857	20.93%	0.623%
152	14.953	14.926	14.971	HH	8862	213323	22.68%	0.675%
153	14.994	14.971	15.013	HH	11825	251015	26.69%	0.795%
154	15.028	15.013	15.058	HH	9714	244363	25.98%	0.774%
155	15.076	15.058	15.098	HH	8586	187794	19.96%	0.595%
156	15.113	15.098	15.151	HH	7290	213237	22.67%	0.675%
157	15.171	15.151	15.182	HH	7090	126854	13.49%	0.402%
158	15.293	15.276	15.304	HH	10772	166398	17.69%	0.527%
159	15.316	15.304	15.331	HH	10670	161780	17.20%	0.512%
160	15.346	15.331	15.378	HH	10099	236791	25.17%	0.750%
161	15.403	15.378	15.425	HH	10424	247501	26.31%	0.784%
162	15.460	15.425	15.476	HH	12067	329208	35.00%	1.042%
163	15.503	15.476	15.553	HH	15047	542790	57.71%	1.718%
164	15.579	15.553	15.613	HH	11222	322908	34.33%	1.022%
165	15.700	15.668	15.732	HH	14507	452812	48.14%	1.434%
166	15.755	15.732	15.785	HH	16203	427602	45.46%	1.354%
167	15.838	15.820	15.871	HH	11576	306561	32.59%	0.971%
168	15.886	15.871	15.908	HH	9979	208689	22.19%	0.661%
169	15.947	15.908	15.963	HH	14717	382821	40.70%	1.212%
170	15.998	15.963	16.038	HH	14712	536982	57.09%	1.700%
171	16.192	16.141	16.212	HH	13211	460993	49.01%	1.460%
172	16.237	16.212	16.294	HH	14767	567306	60.31%	1.796%
173	16.350	16.337	16.384	HH	8964	236640	25.16%	0.749%
174	16.476	16.454	16.507	HH	12487	311253	33.09%	0.985%
175	16.523	16.507	16.552	HH	8527	210110	22.34%	0.665%
176	16.587	16.552	16.601	HH	7334	204051	21.69%	0.646%
177	16.650	16.626	16.668	HH	9745	214811	22.84%	0.680%
178	16.696	16.668	16.713	HH	11022	262595	27.92%	0.831%
179	16.728	16.713	16.756	HH	10271	216979	23.07%	0.687%
180	16.781	16.756	16.817	HH	8280	259293	27.57%	0.821%
181	16.828	16.817	16.844	HH	6675	106546	11.33%	0.337%
182	16.889	16.844	16.914	HH	8070	292432	31.09%	0.926%
183	16.942	16.914	16.963	HH	9224	223250	23.73%	0.707%
184	16.976	16.963	17.037	HH	6904	260011	27.64%	0.823%
185	17.055	17.037	17.071	HH	5661	108731	11.56%	0.344%
186	17.102	17.071	17.121	HH	6855	183236	19.48%	0.580%
187	17.233	17.209	17.265	HH	6510	186901	19.87%	0.592%
188	17.298	17.265	17.318	HH	5621	163713	17.40%	0.518%
189	17.390	17.356	17.409	HH	6211	173193	18.41%	0.548%
190	17.418	17.409	17.457	HH	5532	138023	14.67%	0.437%
191	17.584	17.568	17.610	HH	5219	118819	12.63%	0.376%
192	17.733	17.717	17.751	HH	4158	83284	8.85%	0.264%
193	17.827	17.804	17.844	HH	4840	104789	11.14%	0.332%
194	17.863	17.844	17.891	HH	5100	124144	13.20%	0.393%

Instrument :
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195	17.903	17.891	17.917	HH	3933	61051	6.49%	0.193%
196	17.974	17.917	17.991	HH	17142	197736	21	
197	18.025	17.991	18.044	HV	4606	135161	14	
198	18.066	18.044	18.102	VV	4673	144004	15	
199	18.196	18.177	18.208	VV	3707	66528	7	
200	18.233	18.208	18.254	VV	3780	101318	10	
201	18.391	18.366	18.451	VV	4425	182048	19.35%	0.576%
202	18.593	18.572	18.633	VV	3101	111083	11.81%	0.352%
203	18.815	18.778	18.838	VV	3264	109741	11.67%	0.347%
204	18.864	18.838	18.894	VV	3152	101918	10.84%	0.323%
205	18.997	18.981	19.020	VV	3014	66778	7.10%	0.211%
206	19.146	19.128	19.183	VV	3044	96049	10.21%	0.304%
207	19.217	19.183	19.238	VV	2971	92887	9.87%	0.294%
208	19.772	19.746	19.821	VV	2986	131061	13.93%	0.415%
209	20.027	19.908	20.044	VV	3286	249843	26.56%	0.791%
210	21.060	21.039	21.108	VV	2488	100198	10.65%	0.317%
211	21.130	21.108	21.191	VV	2384	113465	12.06%	0.359%
212	21.290	21.278	21.328	VV	2048	58062	6.17%	0.184%
213	21.356	21.328	21.415	VV	1967	96583	10.27%	0.306%
214	21.607	21.575	21.681	VV	1410	82350	8.75%	0.261%
215	21.721	21.681	21.818	VV	1153	86083	9.15%	0.273%
216	21.837	21.818	21.878	VV	914	30277	3.22%	0.096%
217	21.883	21.878	21.912	VV	847	15608	1.66%	0.049%
218	22.052	22.041	22.190	VV	694	36624	3.89%	0.116%
219	22.264	22.190	22.324	VV	255	14573	1.55%	0.046%

Sum of corrected areas: 31585351

Aliphatic EPH 040925.M Fri Apr 11 06:04:16 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068540.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 00:41
Operator : YP/AJ
Sample : Q1746-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-GW01

Integration File: autoint1.e
Quant Time: Apr 10 05:28:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.148	3943002	42.446 ug/ml
Spiked Amount 50.000		Recovery = 84.89%	
Target Compounds			

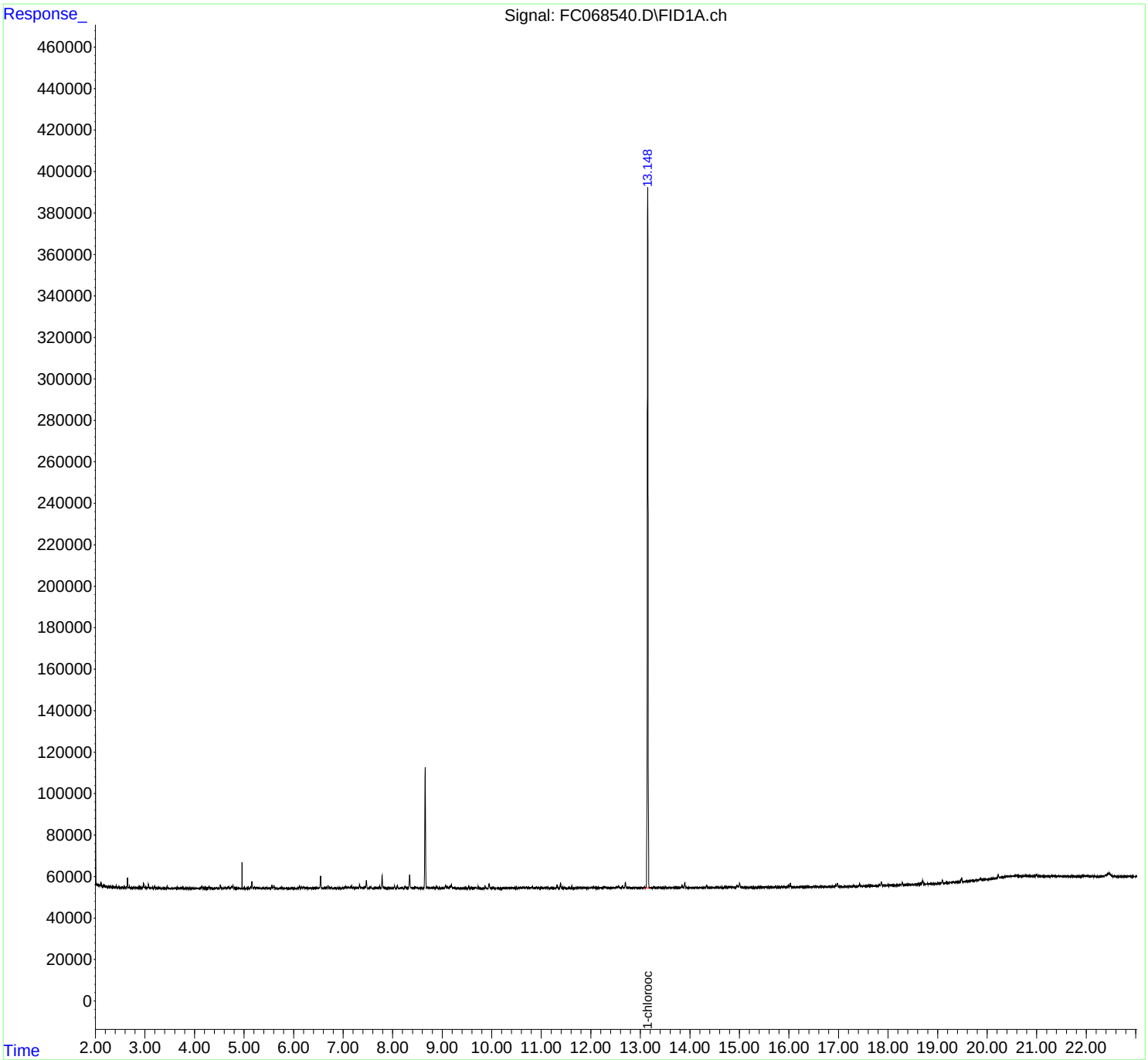
(f)=RT Delta > 1/2 Window (m)=manual int.

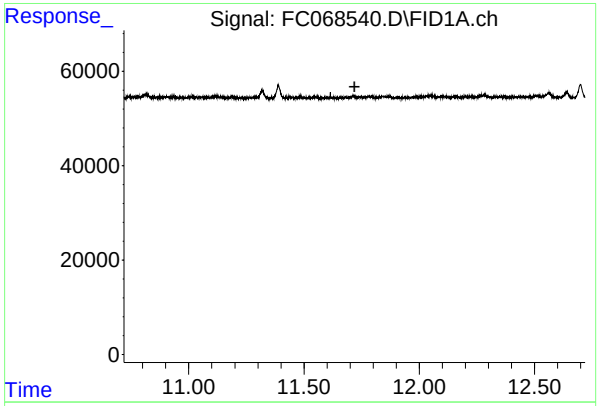
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068540.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 00:41
Operator : YP/AJ
Sample : Q1746-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-GW01

Integration File: autoint1.e
Quant Time: Apr 10 05:28:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

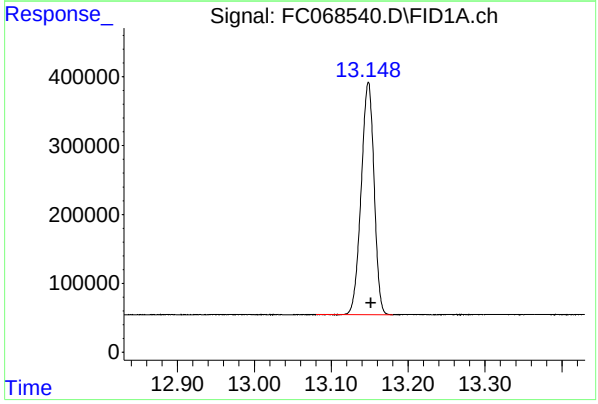




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-149-GW01



#12 1-chlorooctadecane (SURR)

R.T.: 13.148 min
Delta R.T.: -0.004 min
Response: 3943002
Conc: 42.45 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068540.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 00:41
Sample : Q1746-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.418	2.402	2.445	PV	702	5648	0.14%	0.061%
2	2.474	2.445	2.502	VV	137	2562	0.06%	0.027%
3	2.514	2.502	2.551	PV	131	1988	0.05%	0.021%
4	2.572	2.551	2.600	PV	385	4458	0.11%	0.048%
5	2.610	2.600	2.627	VV	125	1181	0.03%	0.013%
6	2.647	2.627	2.667	VV	4889	38126	0.97%	0.409%
7	2.685	2.667	2.757	VV	541	7510	0.19%	0.081%
8	2.776	2.757	2.801	VV	179	2543	0.06%	0.027%
9	2.814	2.801	2.864	VV	185	3995	0.10%	0.043%
10	2.880	2.864	2.930	VV	750	8199	0.21%	0.088%
11	2.970	2.930	2.999	VV	2007	28304	0.72%	0.304%
12	3.018	2.999	3.051	VV	793	9096	0.23%	0.098%
13	3.070	3.051	3.128	VV	1903	20803	0.53%	0.223%
14	3.149	3.128	3.167	VV	314	4075	0.10%	0.044%
15	3.198	3.167	3.261	VV	1247	14046	0.36%	0.151%
16	3.272	3.261	3.284	VV	133	1401	0.04%	0.015%
17	3.300	3.284	3.400	VV	116	4746	0.12%	0.051%
18	3.418	3.400	3.427	VV	158	1837	0.05%	0.020%
19	3.447	3.427	3.479	VV	750	8747	0.22%	0.094%
20	3.496	3.479	3.517	VV	146	2097	0.05%	0.022%
21	3.552	3.517	3.591	PV	175	4286	0.11%	0.046%
22	3.600	3.591	3.630	VV	165	2318	0.06%	0.025%
23	3.641	3.630	3.673	VV	253	2780	0.07%	0.030%
24	3.721	3.673	3.744	VV	342	7396	0.19%	0.079%
25	3.755	3.744	3.797	VV	598	8929	0.23%	0.096%
26	3.822	3.797	3.848	VV	324	5021	0.13%	0.054%
27	3.859	3.848	3.872	VV	114	1395	0.04%	0.015%
28	3.890	3.872	3.904	VV	128	1544	0.04%	0.017%
29	3.914	3.904	3.931	VV	80	1189	0.03%	0.013%
30	3.948	3.931	4.014	PV	320	6709	0.17%	0.072%
31	4.033	4.014	4.084	VV	216	6793	0.17%	0.073%
32	4.121	4.084	4.133	VV	624	8175	0.21%	0.088%
33	4.149	4.133	4.167	VV	1193	12056	0.31%	0.129%
34	4.184	4.167	4.194	VV	273	2961	0.08%	0.032%
35	4.217	4.194	4.237	VV	398	5925	0.15%	0.064%
36	4.296	4.237	4.317	VV	840	16988	0.43%	0.182%

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37	4.331	4.317	4.395	VV	322	8761	0.22%	0.094%
38	4.407	4.395	4.428	VV	146	2585	0.07%	0.028%
39	4.443	4.428	4.464	VV	307	4986	0.13%	0.053%
40	4.477	4.464	4.501	VV	311	5723	0.15%	0.061%
41	4.522	4.501	4.604	VV	1934	30019	0.76%	0.322%
42	4.632	4.604	4.657	VV	402	9692	0.25%	0.104%
43	4.691	4.657	4.714	VV	1140	17250	0.44%	0.185%
44	4.725	4.714	4.730	VV	394	3124	0.08%	0.034%
45	4.747	4.730	4.761	VV	1075	11731	0.30%	0.126%
46	4.777	4.761	4.797	VV	1682	16922	0.43%	0.182%
47	4.810	4.797	4.844	VV	393	5386	0.14%	0.058%
48	4.895	4.844	4.927	VV	260	9488	0.24%	0.102%
49	4.940	4.927	4.954	VV	249	3207	0.08%	0.034%
50	4.960	4.954	4.987	VV	3145	11330	0.29%	0.122%
51	5.004	4.987	5.024	VV	611	6857	0.17%	0.074%
52	5.032	5.024	5.064	VV	172	3241	0.08%	0.035%
53	5.083	5.064	5.106	VV	391	4997	0.13%	0.054%
54	5.133	5.106	5.141	VV	786	9231	0.23%	0.099%
55	5.159	5.141	5.187	VV	3563	40404	1.02%	0.433%
56	5.216	5.187	5.233	VV	755	11852	0.30%	0.127%
57	5.261	5.233	5.314	VV	487	12580	0.32%	0.135%
58	5.330	5.314	5.341	VV	172	1700	0.04%	0.018%
59	5.385	5.341	5.414	VV	354	7641	0.19%	0.082%
60	5.439	5.414	5.452	VV	515	6021	0.15%	0.065%
61	5.464	5.452	5.504	VV	371	6750	0.17%	0.072%
62	5.527	5.504	5.540	VV	224	3912	0.10%	0.042%
63	5.562	5.540	5.584	VV	1793	20087	0.51%	0.215%
64	5.603	5.584	5.646	VV	1534	19725	0.50%	0.212%
65	5.662	5.646	5.678	VV	325	3378	0.09%	0.036%
66	5.725	5.678	5.733	VV	236	4737	0.12%	0.051%
67	5.754	5.733	5.793	VV	625	9637	0.24%	0.103%
68	5.806	5.793	5.824	VV	164	2234	0.06%	0.024%
69	5.864	5.824	5.884	VV	381	8142	0.21%	0.087%
70	5.912	5.884	5.928	VV	231	3996	0.10%	0.043%
71	5.965	5.928	5.993	VV	396	6401	0.16%	0.069%
72	6.016	5.993	6.048	VV	281	4658	0.12%	0.050%
73	6.068	6.048	6.077	VV	301	3567	0.09%	0.038%
74	6.121	6.077	6.141	VV	936	17034	0.43%	0.183%
75	6.163	6.141	6.179	VV	573	8090	0.21%	0.087%
76	6.205	6.179	6.251	VV	999	20234	0.51%	0.217%
77	6.265	6.251	6.308	VV	792	12843	0.33%	0.138%
78	6.339	6.308	6.368	VV	392	10213	0.26%	0.110%
79	6.392	6.368	6.413	VV	320	6606	0.17%	0.071%
80	6.430	6.413	6.462	VV	319	7929	0.20%	0.085%
81	6.486	6.462	6.499	VV	388	6421	0.16%	0.069%
82	6.545	6.499	6.576	VV	6040	68946	1.75%	0.740%
83	6.586	6.576	6.617	VV	259	5391	0.14%	0.058%
84	6.633	6.617	6.649	VV	522	6939	0.18%	0.074%
85	6.667	6.649	6.678	VV	525	6827	0.17%	0.073%
86	6.696	6.678	6.721	VV	1334	17498	0.44%	0.188%
87	6.730	6.721	6.751	VV	443	6600	0.17%	0.071%
88	6.769	6.751	6.799	VV	700	10377	0.26%	0.111%
89	6.822	6.799	6.850	VV	361	6183	0.16%	0.066%

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90	6.875	6.850	6.897	VV	387	7142	0.18%	0.077%
91	6.913	6.897	6.971	VV	289	8667	0.22%	0.093%
92	6.990	6.971	7.024	VV	651	11099	0.28%	0.119%
93	7.045	7.024	7.079	VV	1046	21748	0.55%	0.233%
94	7.105	7.079	7.133	VV	938	18335	0.46%	0.197%
95	7.170	7.133	7.191	VV	1086	22377	0.57%	0.240%
96	7.207	7.191	7.225	VV	512	7553	0.19%	0.081%
97	7.250	7.225	7.265	VV	554	8165	0.21%	0.088%
98	7.275	7.265	7.295	VV	439	5506	0.14%	0.059%
99	7.333	7.295	7.367	VV	2036	29318	0.74%	0.315%
100	7.389	7.367	7.420	VV	452	11397	0.29%	0.122%
101	7.436	7.420	7.450	VV	693	9448	0.24%	0.101%
102	7.471	7.450	7.495	VV	3856	43110	1.09%	0.462%
103	7.504	7.495	7.513	VV	256	2577	0.07%	0.028%
104	7.538	7.513	7.548	VV	432	6702	0.17%	0.072%
105	7.563	7.548	7.593	VV	565	10059	0.25%	0.108%
106	7.602	7.593	7.620	VV	302	4255	0.11%	0.046%
107	7.642	7.620	7.711	VV	449	13062	0.33%	0.140%
108	7.734	7.711	7.756	VV	1034	12202	0.31%	0.131%
109	7.788	7.756	7.871	VV	6354	76429	1.94%	0.820%
110	7.927	7.871	7.940	VV	427	13153	0.33%	0.141%
111	7.952	7.940	7.974	VV	440	5222	0.13%	0.056%
112	7.994	7.974	8.017	VV	538	7591	0.19%	0.081%
113	8.038	8.017	8.066	VV	1199	15538	0.39%	0.167%
114	8.095	8.066	8.116	VV	1323	15937	0.40%	0.171%
115	8.132	8.116	8.147	VV	211	3260	0.08%	0.035%
116	8.165	8.147	8.180	VV	483	5601	0.14%	0.060%
117	8.197	8.180	8.217	VV	337	5148	0.13%	0.055%
118	8.250	8.217	8.316	VV	973	21710	0.55%	0.233%
119	8.343	8.316	8.413	VV	6736	82128	2.08%	0.881%
120	8.444	8.413	8.476	VV	883	15340	0.39%	0.165%
121	8.491	8.476	8.520	VV	394	6680	0.17%	0.072%
122	8.538	8.520	8.564	VV	382	5959	0.15%	0.064%
123	8.579	8.564	8.628	VV	457	8495	0.22%	0.091%
124	8.657	8.628	8.738	VV	58150	601045	15.23%	6.448%
125	8.752	8.738	8.778	VV	351	7140	0.18%	0.077%
126	8.805	8.778	8.817	VV	496	9615	0.24%	0.103%
127	8.833	8.817	8.849	VV	525	7676	0.19%	0.082%
128	8.884	8.849	8.924	VV	726	20630	0.52%	0.221%
129	8.947	8.924	8.981	VV	378	7369	0.19%	0.079%
130	9.000	8.981	9.031	VV	406	7456	0.19%	0.080%
131	9.065	9.031	9.086	VV	1378	20154	0.51%	0.216%
132	9.103	9.086	9.121	VV	914	12436	0.32%	0.133%
133	9.126	9.121	9.138	VV	565	4795	0.12%	0.051%
134	9.186	9.138	9.214	VV	1693	35513	0.90%	0.381%
135	9.221	9.214	9.241	VV	329	3984	0.10%	0.043%
136	9.255	9.241	9.284	VV	547	7198	0.18%	0.077%
137	9.305	9.284	9.322	VV	324	4359	0.11%	0.047%
138	9.359	9.322	9.371	VV	228	3944	0.10%	0.042%
139	9.389	9.371	9.411	VV	282	5230	0.13%	0.056%
140	9.418	9.411	9.437	VV	251	3365	0.09%	0.036%
141	9.467	9.437	9.509	VV	509	11336	0.29%	0.122%

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142	9.535	9.509	9.571	VV	933	14225	0.36%	0.153%
143	9.586	9.571	9.621	VV	373	7711	0.20%	0.083%
144	9.630	9.621	9.650	VV	231	3126	0.08%	0.034%
145	9.673	9.650	9.708	VV	458	9539	0.24%	0.102%
146	9.726	9.708	9.768	VV	1138	14821	0.38%	0.159%
147	9.815	9.768	9.840	VV	178	4533	0.11%	0.049%
148	9.866	9.840	9.899	VV	742	10873	0.28%	0.117%
149	9.911	9.899	9.924	VV	122	1462	0.04%	0.016%
150	9.946	9.924	10.001	VV	2211	28778	0.73%	0.309%
151	10.018	10.001	10.031	VV	341	4474	0.11%	0.048%
152	10.041	10.031	10.057	VV	306	3939	0.10%	0.042%
153	10.093	10.057	10.108	VV	219	5080	0.13%	0.054%
154	10.117	10.108	10.141	VV	222	2561	0.06%	0.027%
155	10.156	10.141	10.179	VV	156	1904	0.05%	0.020%
156	10.194	10.179	10.203	PV	132	1239	0.03%	0.013%
157	10.225	10.203	10.243	VV	236	3178	0.08%	0.034%
158	10.274	10.243	10.311	VV	327	8908	0.23%	0.096%
159	10.340	10.311	10.361	VV	415	8693	0.22%	0.093%
160	10.381	10.361	10.400	VV	485	7391	0.19%	0.079%
161	10.426	10.400	10.448	VV	309	6987	0.18%	0.075%
162	10.498	10.448	10.516	VV	289	7757	0.20%	0.083%
163	10.550	10.516	10.573	VV	343	8739	0.22%	0.094%
164	10.586	10.573	10.601	VV	383	5210	0.13%	0.056%
165	10.631	10.601	10.654	VV	478	11103	0.28%	0.119%
166	10.683	10.654	10.721	VV	538	14548	0.37%	0.156%
167	10.741	10.721	10.771	VV	396	7241	0.18%	0.078%
168	10.779	10.771	10.789	VV	335	3269	0.08%	0.035%
169	10.818	10.789	10.846	VV	828	16015	0.41%	0.172%
170	10.903	10.846	10.919	VV	342	10861	0.28%	0.117%
171	10.935	10.919	10.984	VV	264	7323	0.19%	0.079%
172	11.013	10.984	11.028	VV	301	5192	0.13%	0.056%
173	11.032	11.028	11.038	VV	263	1350	0.03%	0.014%
174	11.046	11.038	11.092	VV	240	6354	0.16%	0.068%
175	11.115	11.092	11.161	VV	434	10018	0.25%	0.107%
176	11.188	11.161	11.212	VV	235	4510	0.11%	0.048%
177	11.228	11.212	11.244	VV	121	1445	0.04%	0.016%
178	11.318	11.244	11.363	VV	1635	24728	0.63%	0.265%
179	11.389	11.363	11.424	VV	2628	31065	0.79%	0.333%
180	11.440	11.424	11.458	VV	236	2622	0.07%	0.028%
181	11.485	11.458	11.519	VV	270	5112	0.13%	0.055%
182	11.548	11.519	11.577	VV	263	3995	0.10%	0.043%
183	11.615	11.577	11.641	VV	432	3210	0.08%	0.034%
184	11.713	11.641	11.729	PV	346	7891	0.20%	0.085%
185	11.746	11.729	11.762	VV	241	3990	0.10%	0.043%
186	11.782	11.762	11.820	VV	387	7456	0.19%	0.080%
187	11.845	11.820	11.860	VV	360	6142	0.16%	0.066%
188	11.871	11.860	11.904	VV	303	4536	0.11%	0.049%
189	11.908	11.904	11.921	VV	149	977	0.02%	0.010%
190	11.989	11.921	12.001	VV	277	6845	0.17%	0.073%
191	12.050	12.001	12.076	VV	495	13699	0.35%	0.147%
192	12.107	12.076	12.135	VV	403	7742	0.20%	0.083%
193	12.157	12.135	12.174	VV	268	4354	0.11%	0.047%
194	12.201	12.174	12.242	VV	324	9255	0.23%	0.099%

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195	12.283	12.242	12.316	VV	620	15177	0.38%	0.163%
196	12.348	12.316	12.382	VV	278	7743	0.20%	0.083%
197	12.404	12.382	12.419	VV	198	3108	0.08%	0.033%
198	12.434	12.419	12.445	VV	199	2563	0.06%	0.027%
199	12.459	12.445	12.484	VV	264	4709	0.12%	0.051%
200	12.511	12.484	12.528	VV	490	8851	0.22%	0.095%
201	12.561	12.528	12.594	VV	1059	18809	0.48%	0.202%
202	12.639	12.594	12.662	VV	1228	17351	0.44%	0.186%
203	12.698	12.662	12.751	VV	2773	36225	0.92%	0.389%
204	12.760	12.751	12.787	VV	268	2785	0.07%	0.030%
205	12.802	12.787	12.845	VV	163	3773	0.10%	0.040%
206	12.852	12.845	12.858	VV	100	521	0.01%	0.006%
207	12.889	12.858	12.913	VV	133	2801	0.07%	0.030%
208	12.974	12.913	13.017	VV	217	8604	0.22%	0.092%
209	13.025	13.017	13.047	VV	161	1748	0.04%	0.019%
210	13.097	13.047	13.111	VV	196	5106	0.13%	0.055%
211	13.148	13.111	13.188	VV	336779	3946306	100.00%	42.337%
212	13.205	13.188	13.231	VV	214	3825	0.10%	0.041%
213	13.254	13.231	13.268	VV	182	2691	0.07%	0.029%
214	13.316	13.268	13.351	VV	285	8977	0.23%	0.096%
215	13.367	13.351	13.414	VV	270	6268	0.16%	0.067%
216	13.425	13.414	13.448	VV	204	3124	0.08%	0.034%
217	13.460	13.448	13.470	VV	135	1519	0.04%	0.016%
218	13.482	13.470	13.500	VV	135	2279	0.06%	0.024%
219	13.527	13.500	13.554	VV	257	6067	0.15%	0.065%
220	13.584	13.554	13.636	VV	307	8336	0.21%	0.089%
221	13.660	13.636	13.671	VV	189	2271	0.06%	0.024%
222	13.756	13.671	13.788	VV	284	13295	0.34%	0.143%
223	13.846	13.788	13.871	VV	1117	20053	0.51%	0.215%
224	13.898	13.871	13.937	VV	2508	32692	0.83%	0.351%
225	13.958	13.937	14.062	VV	204	5202	0.13%	0.056%
226	14.077	14.062	14.091	VV	111	710	0.02%	0.008%
227	14.117	14.091	14.171	PV	192	5017	0.13%	0.054%
228	14.183	14.171	14.211	VV	143	2476	0.06%	0.027%
229	14.216	14.211	14.267	VV	147	3050	0.08%	0.033%
230	14.287	14.267	14.301	VV	132	2107	0.05%	0.023%
231	14.335	14.301	14.415	VV	1293	24301	0.62%	0.261%
232	14.464	14.415	14.498	VV	224	7321	0.19%	0.079%
233	14.555	14.498	14.564	VV	233	7094	0.18%	0.076%
234	14.596	14.564	14.606	VV	312	5720	0.14%	0.061%
235	14.611	14.606	14.632	VV	277	3498	0.09%	0.038%
236	14.663	14.632	14.697	VV	293	6809	0.17%	0.073%
237	14.719	14.697	14.754	VV	262	6496	0.16%	0.070%
238	14.781	14.754	14.891	VV	308	17942	0.45%	0.192%
239	14.899	14.891	14.920	VV	202	3116	0.08%	0.033%
240	14.957	14.920	14.978	VV	1062	17886	0.45%	0.192%
241	15.002	14.978	15.048	VV	2249	33732	0.85%	0.362%
242	15.058	15.048	15.084	VV	229	3115	0.08%	0.033%
243	15.088	15.084	15.112	VV	174	1433	0.04%	0.015%
244	15.176	15.112	15.209	PV	139	4399	0.11%	0.047%
245	15.238	15.209	15.314	VV	123	4642	0.12%	0.050%
246	15.318	15.314	15.328	VV	75	269	0.01%	0.003%

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247	15.355	15.328	15.365	PV	155	1929	0.05%	0.021%
248	15.371	15.365	15.378	VV	127	639	0.02%	0.007%
249	15.424	15.378	15.441	VV	153	3764	0.10%	0.040%
250	15.448	15.441	15.479	VV	149	2465	0.06%	0.026%
251	15.488	15.479	15.502	VV	188	1933	0.05%	0.021%
252	15.530	15.502	15.588	VV	223	5997	0.15%	0.064%
253	15.599	15.588	15.611	VV	120	1276	0.03%	0.014%
254	15.613	15.611	15.624	VV	110	567	0.01%	0.006%
255	15.628	15.624	15.635	VV	135	421	0.01%	0.005%
256	15.656	15.635	15.671	VV	204	2164	0.05%	0.023%
257	15.705	15.671	15.745	VV	175	5032	0.13%	0.054%
258	15.754	15.745	15.781	VV	161	2627	0.07%	0.028%
259	15.791	15.781	15.798	VV	141	969	0.02%	0.010%
260	15.852	15.798	15.862	VV	214	5399	0.14%	0.058%
261	15.878	15.862	15.904	VV	251	4982	0.13%	0.053%
262	15.913	15.904	15.957	VV	193	4297	0.11%	0.046%
263	15.985	15.957	16.004	VV	750	11472	0.29%	0.123%
264	16.024	16.004	16.061	VV	1781	25123	0.64%	0.270%
265	16.073	16.061	16.143	VV	196	4215	0.11%	0.045%
266	16.206	16.143	16.248	VV	213	4866	0.12%	0.052%
267	16.260	16.248	16.294	VV	174	1955	0.05%	0.021%
268	16.343	16.294	16.380	PV	213	4005	0.10%	0.043%
269	16.404	16.380	16.412	VV	187	2635	0.07%	0.028%
270	16.418	16.412	16.428	VV	165	1070	0.03%	0.011%
271	16.439	16.428	16.449	VV	101	981	0.02%	0.011%
272	16.457	16.449	16.465	VV	83	563	0.01%	0.006%
273	16.507	16.465	16.544	VV	448	8563	0.22%	0.092%
274	16.552	16.544	16.575	VV	144	2050	0.05%	0.022%
275	16.591	16.575	16.601	VV	102	1469	0.04%	0.016%
276	16.611	16.601	16.618	VV	114	833	0.02%	0.009%
277	16.628	16.618	16.648	VV	102	1641	0.04%	0.018%
278	16.655	16.648	16.694	VV	192	3732	0.09%	0.040%
279	16.714	16.694	16.741	VV	190	3640	0.09%	0.039%
280	16.751	16.741	16.761	VV	113	1111	0.03%	0.012%
281	16.786	16.761	16.828	VV	171	4422	0.11%	0.047%
282	16.871	16.828	16.890	VV	310	5713	0.14%	0.061%
283	16.902	16.890	16.908	VV	156	1472	0.04%	0.016%
284	16.942	16.908	16.954	VV	633	10535	0.27%	0.113%
285	16.975	16.954	17.008	VV	1654	23677	0.60%	0.254%
286	17.016	17.008	17.043	VV	119	1509	0.04%	0.016%
287	17.052	17.043	17.095	PV	121	2133	0.05%	0.023%
288	17.104	17.095	17.134	VV	70	1362	0.03%	0.015%
289	17.142	17.134	17.164	VV	110	1249	0.03%	0.013%
290	17.171	17.164	17.182	VV	116	832	0.02%	0.009%
291	17.191	17.182	17.228	VV	123	1686	0.04%	0.018%
292	17.263	17.228	17.273	PV	99	1978	0.05%	0.021%
293	17.303	17.273	17.337	VV	480	7632	0.19%	0.082%
294	17.348	17.337	17.378	VV	83	928	0.02%	0.010%
295	17.426	17.378	17.465	PV	877	13116	0.33%	0.141%
296	17.474	17.465	17.483	VV	124	847	0.02%	0.009%
297	17.523	17.483	17.554	VV	150	4162	0.11%	0.045%
298	17.708	17.554	17.718	VV	136	8417	0.21%	0.090%
299	17.730	17.718	17.762	VV	93	1634	0.04%	0.018%

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300	17.864	17.762	17.918	PV	1916	39083	0.99%	0.419%
301	17.936	17.918	17.950	VV	149	1803	0.05%	0.019%
302	18.026	17.950	18.038	VV	202	6149	0.16%	0.066%
303	18.052	18.038	18.074	VV	130	2190	0.06%	0.023%
304	18.142	18.074	18.184	PV	190	6182	0.16%	0.066%
305	18.198	18.184	18.211	VV	111	1469	0.04%	0.016%
306	18.238	18.211	18.260	VV	402	4525	0.11%	0.049%
307	18.287	18.260	18.325	VV	1272	19294	0.49%	0.207%
308	18.412	18.325	18.458	PV	161	6475	0.16%	0.069%
309	18.550	18.458	18.571	VV	231	8257	0.21%	0.089%
310	18.577	18.571	18.588	VV	178	1318	0.03%	0.014%
311	18.598	18.588	18.607	VV	143	1241	0.03%	0.013%
312	18.697	18.607	18.751	VV	1962	39557	1.00%	0.424%
313	18.756	18.751	18.779	VV	132	1400	0.04%	0.015%
314	18.802	18.779	18.814	VV	127	1812	0.05%	0.019%
315	18.834	18.814	18.858	VV	160	2830	0.07%	0.030%
316	18.877	18.858	18.886	VV	134	1527	0.04%	0.016%
317	18.949	18.886	18.958	VV	199	4304	0.11%	0.046%
318	18.999	18.958	19.015	VV	169	4420	0.11%	0.047%
319	19.030	19.015	19.041	VV	131	1362	0.03%	0.015%
320	19.096	19.041	19.141	PV	1273	26307	0.67%	0.282%
321	19.149	19.141	19.160	VV	198	2167	0.05%	0.023%
322	19.184	19.160	19.204	VV	280	5613	0.14%	0.060%
323	19.269	19.204	19.298	VV	378	16169	0.41%	0.173%
324	19.339	19.298	19.361	VV	417	12975	0.33%	0.139%
325	19.394	19.361	19.441	VV	502	19306	0.49%	0.207%
326	19.483	19.441	19.533	VV	1920	47798	1.21%	0.513%
327	19.545	19.533	19.554	VV	492	6348	0.16%	0.068%
328	19.686	19.554	19.693	VV	715	49364	1.25%	0.530%
329	19.779	19.693	19.794	VV	894	46303	1.17%	0.497%
330	19.860	19.794	19.904	VV	1578	66065	1.67%	0.709%
331	19.965	19.904	19.978	VV	1120	43548	1.10%	0.467%
332	20.047	19.978	20.071	VV	1293	64052	1.62%	0.687%
333	20.128	20.071	20.162	VV	1481	74394	1.89%	0.798%
334	20.224	20.162	20.254	VV	2574	100250	2.54%	1.075%
335	20.290	20.254	20.304	VV	1785	52220	1.32%	0.560%
336	20.450	20.304	20.464	VV	2063	184049	4.66%	1.975%
337	20.495	20.464	20.521	VV	2156	70931	1.80%	0.761%
338	20.589	20.521	20.646	VV	2350	155417	3.94%	1.667%
339	20.705	20.646	20.741	VV	1893	105035	2.66%	1.127%
340	20.791	20.741	20.833	VV	2131	106651	2.70%	1.144%
341	20.838	20.833	20.878	VV	1810	47022	1.19%	0.504%
342	21.001	20.878	21.044	VV	2092	167611	4.25%	1.798%
343	21.061	21.044	21.095	VV	1526	44530	1.13%	0.478%
344	21.106	21.095	21.159	VV	1436	52964	1.34%	0.568%
345	21.180	21.159	21.218	VV	1399	46343	1.17%	0.497%
346	21.244	21.218	21.254	VV	1269	26645	0.68%	0.286%
347	21.264	21.254	21.311	VV	1200	39409	1.00%	0.423%
348	21.373	21.311	21.388	VV	1205	52596	1.33%	0.564%
349	21.393	21.388	21.433	VV	1151	28416	0.72%	0.305%
350	21.465	21.433	21.525	VV	1092	53315	1.35%	0.572%
351	21.583	21.525	21.634	VV	909	53313	1.35%	0.572%

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352	21.701	21.634	21.728	VV	764	40786	1.03%	0.438%
353	21.755	21.728	21.821	VV	698	33338	0.84%	0.358%
354	21.837	21.821	21.888	VV	563	19919	0.50%	0.214%
355	21.902	21.888	21.924	VV	519	9934	0.25%	0.107%
356	21.974	21.924	22.028	VV	706	33737	0.85%	0.362%
357	22.042	22.028	22.137	VV	459	20326	0.52%	0.218%
358	22.164	22.137	22.214	VV	152	5233	0.13%	0.056%
			Sum of corrected areas:			9321241		

Aliphatic EPH 040925.M Thu Apr 10 06:11:16 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049262.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 19:08
Operator : YP/AJ
Sample : Q1746-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-GW01

Integration File: autoint1.e
Quant Time: Apr 10 02:09:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.751	6591465	44.497 ug/ml
Spiked Amount 50.000		Recovery =	88.99%
6) S 2-Flurobiphenyl (SURR)	8.617	3909482	38.327 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	76.65%
11) S ortho-Terphenyl (SURR)	11.660	7121893	40.423 ug/ml
Spiked Amount 50.000		Recovery =	80.85%
Target Compounds			

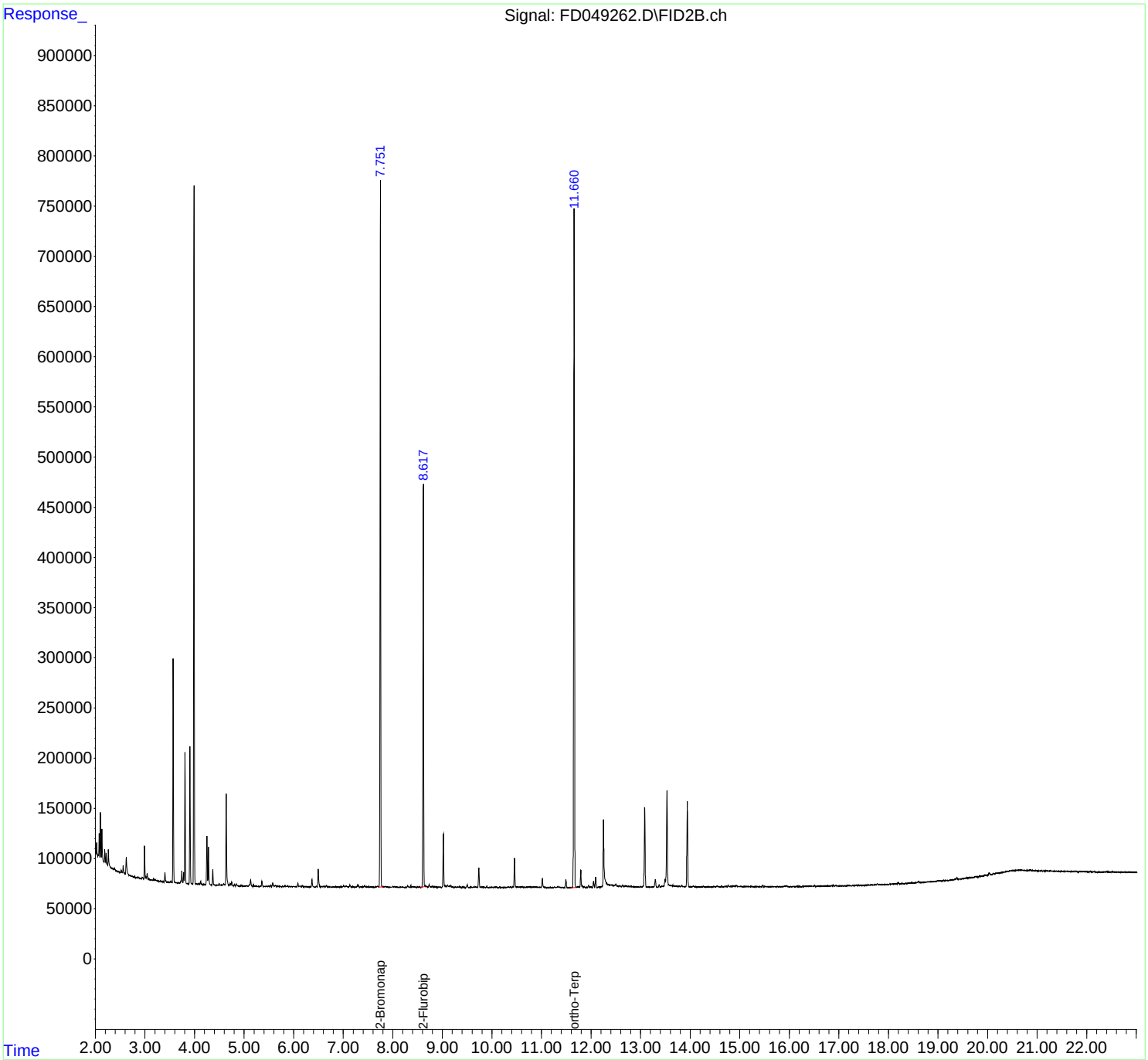
(f)=RT Delta > 1/2 Window (m)=manual int.

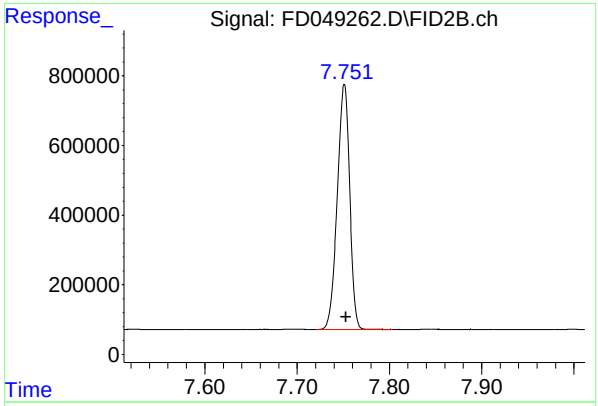
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049262.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 19:08
Operator : YP/AJ
Sample : Q1746-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-GW01

Integration File: autoint1.e
Quant Time: Apr 10 02:09:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

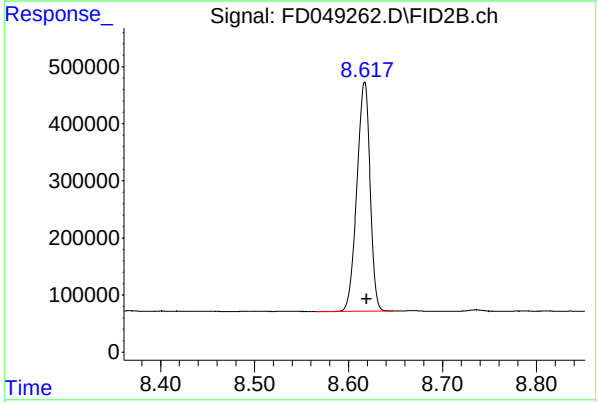




#4 2-Bromonaphthalene (SURR)

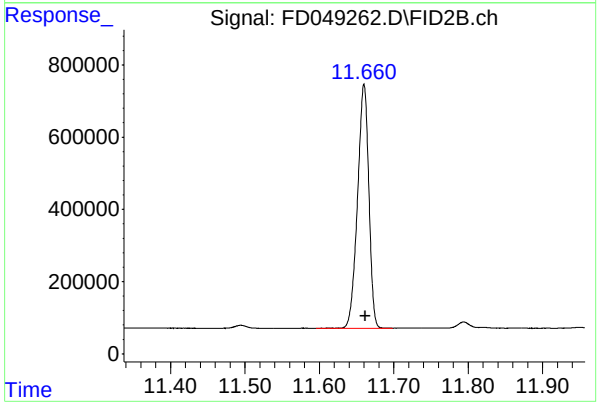
R.T.: 7.751 min
Delta R.T.: -0.001 min
Response: 6591465
Conc: 44.50 ug/ml

Instrument :
FID_D
ClientSampleId :
B-149-GW01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.617 min
Delta R.T.: -0.002 min
Response: 3909482
Conc: 38.33 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.660 min
Delta R.T.: -0.002 min
Response: 7121893
Conc: 40.42 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049262.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 19:08
Sample : Q1746-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.073	4.042	4.083	BV	954	8696	0.12%	0.024%
2	4.095	4.083	4.108	VV	1104	9450	0.13%	0.026%
3	4.123	4.108	4.140	VV	3419	30225	0.42%	0.083%
4	4.146	4.140	4.177	VV	654	5307	0.07%	0.015%
5	4.192	4.177	4.204	PV	808	7029	0.10%	0.019%
6	4.208	4.204	4.223	VV	418	3119	0.04%	0.009%
7	4.250	4.223	4.267	VV	48612	523473	7.34%	1.443%
8	4.281	4.267	4.330	VV	37916	351242	4.93%	0.968%
9	4.368	4.330	4.414	VV	15988	147614	2.07%	0.407%
10	4.419	4.414	4.434	VV	241	1769	0.02%	0.005%
11	4.456	4.434	4.475	VV	503	7014	0.10%	0.019%
12	4.497	4.475	4.518	VV	2229	25591	0.36%	0.071%
13	4.523	4.518	4.530	VV	434	2515	0.04%	0.007%
14	4.535	4.530	4.551	VV	478	4220	0.06%	0.012%
15	4.589	4.551	4.622	VV	1930	36485	0.51%	0.101%
16	4.639	4.622	4.687	VV	91818	858491	12.04%	2.366%
17	4.691	4.687	4.703	VV	943	7369	0.10%	0.020%
18	4.721	4.703	4.735	VV	2533	27765	0.39%	0.077%
19	4.750	4.735	4.773	VV	4154	41152	0.58%	0.113%
20	4.805	4.773	4.826	PV	2057	22498	0.32%	0.062%
21	4.842	4.826	4.899	VV	2208	31300	0.44%	0.086%
22	4.905	4.899	4.932	PV	223	3431	0.05%	0.009%
23	4.944	4.932	4.969	VV	709	8876	0.12%	0.024%
24	4.972	4.969	4.994	VV	392	2771	0.04%	0.008%
25	5.061	5.005	5.085	VV	583	14098	0.20%	0.039%
26	5.107	5.085	5.113	VV	1874	18367	0.26%	0.051%
27	5.132	5.113	5.164	VV	6727	80520	1.13%	0.222%
28	5.189	5.164	5.210	VV	1429	20103	0.28%	0.055%
29	5.217	5.210	5.235	VV	573	6603	0.09%	0.018%
30	5.247	5.235	5.290	VV	496	8295	0.12%	0.023%
31	5.321	5.301	5.342	PV	579	7620	0.11%	0.021%
32	5.358	5.342	5.398	VV	5625	62843	0.88%	0.173%
33	5.411	5.398	5.430	VV	464	5914	0.08%	0.016%
34	5.435	5.430	5.440	VV	318	1714	0.02%	0.005%
35	5.448	5.440	5.454	VV	461	2861	0.04%	0.008%
36	5.461	5.454	5.467	VV	393	2691	0.04%	0.007%

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37	5.469	5.467	5.475	VV	431	1489	0.02%	0.004%
38	5.499	5.475	5.518	VV	719	11066	0.16%	0.030%
39	5.534	5.518	5.557	VV	1597	18109	0.25%	0.050%
40	5.577	5.557	5.609	VV	4035	60405	0.85%	0.166%
41	5.614	5.609	5.619	VV	1031	5564	0.08%	0.015%
42	5.630	5.619	5.651	VV	1180	15181	0.21%	0.042%
43	5.674	5.651	5.682	VV	705	8462	0.12%	0.023%
44	5.688	5.682	5.706	VV	434	6094	0.09%	0.017%
45	5.721	5.706	5.757	VV	716	10887	0.15%	0.030%
46	5.778	5.757	5.790	VV	488	5113	0.07%	0.014%
47	5.823	5.790	5.854	VV	951	20659	0.29%	0.057%
48	5.872	5.854	5.902	VV	931	16603	0.23%	0.046%
49	5.908	5.902	5.912	VV	358	1746	0.02%	0.005%
50	5.919	5.912	5.936	VV	433	4440	0.06%	0.012%
51	5.944	5.936	5.954	VV	350	2484	0.03%	0.007%
52	5.963	5.954	5.968	VV	307	2100	0.03%	0.006%
53	5.976	5.968	5.982	VV	331	2589	0.04%	0.007%
54	5.991	5.982	6.019	VV	595	8860	0.12%	0.024%
55	6.037	6.019	6.044	VV	392	4094	0.06%	0.011%
56	6.086	6.044	6.104	VV	4051	46017	0.65%	0.127%
57	6.129	6.104	6.149	VV	1135	18482	0.26%	0.051%
58	6.172	6.149	6.204	VV	1738	22847	0.32%	0.063%
59	6.226	6.204	6.276	VV	755	18466	0.26%	0.051%
60	6.286	6.276	6.297	VV	422	4068	0.06%	0.011%
61	6.308	6.297	6.329	VV	608	5502	0.08%	0.015%
62	6.344	6.329	6.350	VV	395	3488	0.05%	0.010%
63	6.370	6.350	6.420	VV	7557	80892	1.13%	0.223%
64	6.456	6.420	6.472	VV	992	13544	0.19%	0.037%
65	6.496	6.472	6.544	VV	18072	210368	2.95%	0.580%
66	6.554	6.544	6.568	VV	648	8083	0.11%	0.022%
67	6.573	6.568	6.582	VV	523	3541	0.05%	0.010%
68	6.598	6.582	6.610	VV	879	10413	0.15%	0.029%
69	6.631	6.610	6.645	VV	904	11728	0.16%	0.032%
70	6.661	6.645	6.682	VV	1982	22770	0.32%	0.063%
71	6.693	6.682	6.719	VV	634	7117	0.10%	0.020%
72	6.732	6.719	6.749	VV	1005	9625	0.14%	0.027%
73	6.799	6.749	6.822	PV	546	10401	0.15%	0.029%
74	6.842	6.822	6.870	VV	642	10249	0.14%	0.028%
75	6.895	6.870	6.902	VV	440	5463	0.08%	0.015%
76	6.905	6.902	6.935	VV	374	4003	0.06%	0.011%
77	6.956	6.935	6.977	VV	889	12501	0.18%	0.034%
78	6.982	6.977	6.990	VV	438	3038	0.04%	0.008%
79	7.007	6.990	7.042	VV	1480	30028	0.42%	0.083%
80	7.058	7.042	7.099	VV	1339	28784	0.40%	0.079%
81	7.136	7.099	7.184	VV	2372	42055	0.59%	0.116%
82	7.189	7.184	7.209	VV	483	4865	0.07%	0.013%
83	7.211	7.209	7.223	VV	322	1768	0.02%	0.005%
84	7.246	7.223	7.256	VV	472	4951	0.07%	0.014%
85	7.295	7.256	7.326	VV	3050	48601	0.68%	0.134%
86	7.349	7.326	7.362	VV	658	9580	0.13%	0.026%
87	7.372	7.362	7.388	VV	698	8516	0.12%	0.023%
88	7.402	7.388	7.416	VV	737	8928	0.13%	0.025%
89	7.432	7.416	7.460	VV	1342	19365	0.27%	0.053%

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90	7.467	7.460	7.482	VV	518	4691	0.07%	0.013%
91	7.497	7.482	7.509	VV	582	6632	0.09%	0.018%
92	7.525	7.509	7.551	VV	967	13384	0.19%	0.037%
93	7.554	7.551	7.558	VV	316	1106	0.02%	0.003%
94	7.565	7.558	7.569	VV	314	1812	0.03%	0.005%
95	7.572	7.569	7.590	VV	306	3323	0.05%	0.009%
96	7.595	7.590	7.632	VV	398	6660	0.09%	0.018%
97	7.665	7.632	7.676	VV	765	13749	0.19%	0.038%
98	7.695	7.676	7.721	VV	1433	24318	0.34%	0.067%
99	7.751	7.721	7.829	VV	705371	6625797	92.93%	18.259%
100	7.843	7.829	7.879	VV	1147	20698	0.29%	0.057%
101	7.889	7.879	7.927	VV	689	10213	0.14%	0.028%
102	7.935	7.927	7.941	VV	289	1712	0.02%	0.005%
103	7.955	7.941	7.965	VV	456	3794	0.05%	0.010%
104	7.999	7.965	8.015	VV	1081	14148	0.20%	0.039%
105	8.030	8.015	8.056	VV	833	12016	0.17%	0.033%
106	8.062	8.056	8.074	VV	332	2490	0.03%	0.007%
107	8.089	8.074	8.109	VV	539	6405	0.09%	0.018%
108	8.120	8.109	8.126	VV	357	1919	0.03%	0.005%
109	8.134	8.126	8.139	VV	224	1384	0.02%	0.004%
110	8.146	8.139	8.162	VV	456	4195	0.06%	0.012%
111	8.164	8.162	8.172	VV	399	1760	0.02%	0.005%
112	8.204	8.172	8.225	VV	696	12555	0.18%	0.035%
113	8.234	8.225	8.263	VV	288	4479	0.06%	0.012%
114	8.273	8.263	8.280	VV	286	1896	0.03%	0.005%
115	8.301	8.280	8.349	VV	2259	31686	0.44%	0.087%
116	8.367	8.349	8.387	VV	1605	18043	0.25%	0.050%
117	8.401	8.387	8.411	VV	908	10628	0.15%	0.029%
118	8.417	8.411	8.427	VV	814	6466	0.09%	0.018%
119	8.446	8.427	8.472	VV	741	13140	0.18%	0.036%
120	8.502	8.479	8.521	VV	553	9512	0.13%	0.026%
121	8.536	8.521	8.580	VV	671	11273	0.16%	0.031%
122	8.617	8.580	8.647	VV	402699	3936990	55.22%	10.850%
123	8.652	8.647	8.656	VV	1213	6344	0.09%	0.017%
124	8.668	8.656	8.693	VV	1826	25640	0.36%	0.071%
125	8.698	8.693	8.705	VV	668	4383	0.06%	0.012%
126	8.736	8.705	8.771	VV	3266	50641	0.71%	0.140%
127	8.787	8.771	8.799	VV	1134	14584	0.20%	0.040%
128	8.811	8.799	8.829	VV	1159	14787	0.21%	0.041%
129	8.837	8.829	8.854	VV	943	10069	0.14%	0.028%
130	8.862	8.854	8.882	VV	732	8048	0.11%	0.022%
131	8.899	8.882	8.915	VV	460	7112	0.10%	0.020%
132	8.922	8.915	8.931	VV	504	4087	0.06%	0.011%
133	8.935	8.931	8.943	VV	436	2774	0.04%	0.008%
134	8.954	8.943	8.972	VV	553	6457	0.09%	0.018%
135	9.022	8.972	9.044	VV	53417	538550	7.55%	1.484%
136	9.053	9.044	9.070	VV	2165	26829	0.38%	0.074%
137	9.079	9.070	9.091	VV	1718	16450	0.23%	0.045%
138	9.106	9.091	9.126	VV	2606	34505	0.48%	0.095%
139	9.140	9.126	9.164	VV	1827	30595	0.43%	0.084%
140	9.176	9.164	9.194	VV	2294	25053	0.35%	0.069%
141	9.208	9.194	9.227	VV	658	9798	0.14%	0.027%

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142	9.231	9.227	9.242	VV	389	2531	0.04%	0.007%
143	9.259	9.242	9.287	VV	672	10495	0.15%	0.029%
144	9.307	9.287	9.325	VV	883	12053	0.17%	0.033%
145	9.345	9.325	9.381	VV	975	16028	0.22%	0.044%
146	9.406	9.390	9.414	VV	503	4537	0.06%	0.013%
147	9.423	9.414	9.432	VV	508	4067	0.06%	0.011%
148	9.437	9.432	9.462	VV	308	3495	0.05%	0.010%
149	9.503	9.462	9.529	VV	3059	43102	0.60%	0.119%
150	9.537	9.529	9.549	PV	209	2013	0.03%	0.006%
151	9.564	9.549	9.585	VV	769	9445	0.13%	0.026%
152	9.591	9.585	9.601	VV	370	2575	0.04%	0.007%
153	9.621	9.601	9.645	VV	708	12070	0.17%	0.033%
154	9.658	9.645	9.701	VV	1432	22360	0.31%	0.062%
155	9.706	9.701	9.712	VV	413	2418	0.03%	0.007%
156	9.738	9.712	9.764	VV	19832	221461	3.11%	0.610%
157	9.771	9.764	9.795	VV	628	8259	0.12%	0.023%
158	9.810	9.795	9.817	VV	569	7090	0.10%	0.020%
159	9.821	9.817	9.828	VV	633	3726	0.05%	0.010%
160	9.835	9.828	9.874	VV	773	9309	0.13%	0.026%
161	9.896	9.874	9.918	VV	1592	18961	0.27%	0.052%
162	9.922	9.918	9.927	VV	271	1280	0.02%	0.004%
163	9.933	9.927	9.945	VV	214	1714	0.02%	0.005%
164	9.980	9.945	9.987	VV	578	8578	0.12%	0.024%
165	10.006	9.987	10.032	VV	575	10287	0.14%	0.028%
166	10.048	10.032	10.063	VV	705	8843	0.12%	0.024%
167	10.068	10.063	10.078	VV	509	3825	0.05%	0.011%
168	10.095	10.078	10.121	VV	837	10954	0.15%	0.030%
169	10.149	10.121	10.165	PV	388	6238	0.09%	0.017%
170	10.178	10.165	10.195	VV	395	5259	0.07%	0.014%
171	10.202	10.195	10.212	VV	413	3015	0.04%	0.008%
172	10.218	10.212	10.238	VV	505	5188	0.07%	0.014%
173	10.242	10.238	10.253	VV	321	2805	0.04%	0.008%
174	10.261	10.253	10.265	VV	396	2121	0.03%	0.006%
175	10.269	10.265	10.280	VV	436	2941	0.04%	0.008%
176	10.292	10.280	10.305	VV	477	5122	0.07%	0.014%
177	10.329	10.305	10.344	VV	731	12438	0.17%	0.034%
178	10.362	10.344	10.372	VV	765	10284	0.14%	0.028%
179	10.378	10.372	10.403	VV	740	9815	0.14%	0.027%
180	10.422	10.403	10.435	VV	1231	16251	0.23%	0.045%
181	10.458	10.435	10.491	VV	29648	311536	4.37%	0.859%
182	10.499	10.491	10.509	VV	685	7510	0.11%	0.021%
183	10.513	10.509	10.520	VV	808	4789	0.07%	0.013%
184	10.524	10.520	10.535	VV	715	6353	0.09%	0.018%
185	10.542	10.535	10.550	VV	674	5383	0.08%	0.015%
186	10.561	10.550	10.575	VV	819	9919	0.14%	0.027%
187	10.585	10.575	10.604	VV	995	12753	0.18%	0.035%
188	10.612	10.604	10.619	VV	649	5633	0.08%	0.016%
189	10.624	10.619	10.640	VV	746	8175	0.11%	0.023%
190	10.645	10.640	10.667	VV	580	6019	0.08%	0.017%
191	10.687	10.667	10.705	VV	694	11286	0.16%	0.031%
192	10.725	10.705	10.737	VV	755	10944	0.15%	0.030%
193	10.769	10.737	10.785	VV	1099	22760	0.32%	0.063%
194	10.792	10.785	10.805	VV	481	4457	0.06%	0.012%

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195	10.828	10.805	10.844	VV	852	14454	0.20%	0.040%
196	10.854	10.844	10.865	VV	732	7677	0.11%	0.021%
197	10.882	10.865	10.905	VV	835	15231	0.21%	0.042%
198	10.913	10.905	10.930	VV	588	7063	0.10%	0.019%
199	10.960	10.930	10.987	VV	794	17639	0.25%	0.049%
200	11.020	10.987	11.079	VV	9436	122497	1.72%	0.338%
201	11.082	11.079	11.106	VV	397	5018	0.07%	0.014%
202	11.130	11.106	11.153	VV	346	5846	0.08%	0.016%
203	11.162	11.153	11.169	VV	434	3619	0.05%	0.010%
204	11.175	11.169	11.231	VV	523	9216	0.13%	0.025%
205	11.263	11.240	11.291	VV	796	13397	0.19%	0.037%
206	11.310	11.291	11.316	VV	639	6523	0.09%	0.018%
207	11.332	11.316	11.360	VV	1450	22418	0.31%	0.062%
208	11.368	11.360	11.398	VV	695	11630	0.16%	0.032%
209	11.405	11.398	11.422	VV	525	5461	0.08%	0.015%
210	11.424	11.422	11.437	VV	428	2421	0.03%	0.007%
211	11.494	11.437	11.526	PV	8458	98176	1.38%	0.271%
212	11.556	11.526	11.561	PV	232	2484	0.03%	0.007%
213	11.582	11.561	11.597	PV	377	4552	0.06%	0.013%
214	11.613	11.597	11.620	VV	401	4050	0.06%	0.011%
215	11.660	11.620	11.699	VV	676245	7129524	100.00%	19.647%
216	11.725	11.699	11.743	VV	1046	18438	0.26%	0.051%
217	11.752	11.743	11.765	VV	835	9008	0.13%	0.025%
218	11.794	11.765	11.814	VV	17606	199780	2.80%	0.551%
219	11.820	11.814	11.842	VV	2457	23978	0.34%	0.066%
220	11.845	11.842	11.852	VV	470	2042	0.03%	0.006%
221	11.865	11.852	11.897	VV	753	11314	0.16%	0.031%
222	11.907	11.897	11.917	VV	405	3095	0.04%	0.009%
223	11.949	11.917	11.970	VV	2525	33708	0.47%	0.093%
224	11.988	11.970	12.029	VV	1071	20482	0.29%	0.056%
225	12.051	12.029	12.072	VV	6414	73551	1.03%	0.203%
226	12.093	12.072	12.120	VV	10798	120679	1.69%	0.333%
227	12.162	12.120	12.183	VV	957	19646	0.28%	0.054%
228	12.216	12.183	12.226	VV	1292	22506	0.32%	0.062%
229	12.251	12.226	12.359	VV	67941	1013985	14.22%	2.794%
230	12.361	12.359	12.397	VV	2944	61200	0.86%	0.169%
231	12.410	12.397	12.436	VV	2925	57868	0.81%	0.159%
232	12.441	12.436	12.477	VV	2305	51228	0.72%	0.141%
233	12.499	12.477	12.546	VV	3449	89179	1.25%	0.246%
234	12.553	12.546	12.559	VV	1432	10706	0.15%	0.030%
235	12.578	12.559	12.604	VV	2129	40874	0.57%	0.113%
236	12.637	12.604	12.660	VV	2554	52544	0.74%	0.145%
237	12.698	12.660	12.727	VV	2082	56534	0.79%	0.156%
238	12.731	12.727	12.747	VV	1220	12246	0.17%	0.034%
239	12.754	12.747	12.758	VV	1151	6892	0.10%	0.019%
240	12.764	12.758	12.788	VV	1186	17795	0.25%	0.049%
241	12.808	12.788	12.826	VV	1672	27207	0.38%	0.075%
242	12.838	12.826	12.857	VV	855	13110	0.18%	0.036%
243	12.872	12.857	12.897	VV	895	16603	0.23%	0.046%
244	12.912	12.897	12.931	VV	716	12196	0.17%	0.034%
245	12.937	12.931	12.945	VV	579	4219	0.06%	0.012%
246	12.960	12.945	12.973	VV	713	9198	0.13%	0.025%

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247	12.998	12.973	13.029	VV	924	20337	0.29%	0.056%
248	13.082	13.029	13.112	VV	79435	946524	13.28%	2.608%
249	13.125	13.112	13.148	VV	651	11543	0.16%	0.032%
250	13.151	13.148	13.164	VV	454	3637	0.05%	0.010%
251	13.179	13.164	13.192	VV	566	6741	0.09%	0.019%
252	13.198	13.192	13.224	VV	341	4352	0.06%	0.012%
253	13.239	13.224	13.254	VV	628	8035	0.11%	0.022%
254	13.295	13.254	13.350	VV	7783	122362	1.72%	0.337%
255	13.373	13.350	13.398	VV	2516	30553	0.43%	0.084%
256	13.426	13.398	13.437	VV	1053	17071	0.24%	0.047%
257	13.446	13.437	13.454	VV	1126	11380	0.16%	0.031%
258	13.489	13.454	13.503	VV	7921	112455	1.58%	0.310%
259	13.530	13.503	13.616	VV	96649	1272240	17.84%	3.506%
260	13.621	13.616	13.637	VV	1714	21182	0.30%	0.058%
261	13.649	13.637	13.683	VV	1780	40916	0.57%	0.113%
262	13.690	13.683	13.705	VV	1397	17177	0.24%	0.047%
263	13.715	13.705	13.757	VV	1418	33263	0.47%	0.092%
264	13.780	13.757	13.808	VV	1595	32094	0.45%	0.088%
265	13.830	13.808	13.867	VV	2028	39679	0.56%	0.109%
266	13.873	13.867	13.908	VV	811	16284	0.23%	0.045%
267	13.941	13.908	13.982	VV	85676	1015382	14.24%	2.798%
268	14.002	13.982	14.019	VV	696	11873	0.17%	0.033%
269	14.025	14.019	14.035	VV	527	4267	0.06%	0.012%
270	14.063	14.035	14.116	VV	974	30313	0.43%	0.084%
271	14.122	14.116	14.131	VV	389	2788	0.04%	0.008%
272	14.135	14.131	14.141	VV	319	1337	0.02%	0.004%
273	14.147	14.141	14.180	VV	312	4199	0.06%	0.012%
274	14.198	14.180	14.207	VV	360	3042	0.04%	0.008%
275	14.230	14.207	14.237	VV	374	5455	0.08%	0.015%
276	14.266	14.237	14.294	VV	970	18646	0.26%	0.051%
277	14.314	14.294	14.332	VV	371	4055	0.06%	0.011%
278	14.337	14.332	14.345	VV	210	1243	0.02%	0.003%
279	14.366	14.345	14.398	VV	587	11657	0.16%	0.032%
280	14.404	14.398	14.416	VV	344	2825	0.04%	0.008%
281	14.421	14.416	14.426	VV	252	1106	0.02%	0.003%
282	14.476	14.437	14.506	VV	1085	18244	0.26%	0.050%
283	14.513	14.506	14.519	VV	445	2516	0.04%	0.007%
284	14.537	14.519	14.543	VV	1165	10792	0.15%	0.030%
285	14.547	14.543	14.562	VV	999	8429	0.12%	0.023%
286	14.570	14.562	14.580	VV	697	5087	0.07%	0.014%
287	14.594	14.580	14.600	VV	548	5219	0.07%	0.014%
288	14.605	14.600	14.615	VV	607	4476	0.06%	0.012%
289	14.632	14.615	14.659	VV	824	14121	0.20%	0.039%
290	14.683	14.659	14.689	VV	559	7180	0.10%	0.020%
291	14.714	14.689	14.736	VV	795	17838	0.25%	0.049%
292	14.742	14.736	14.747	VV	748	4120	0.06%	0.011%
293	14.769	14.747	14.793	VV	1663	28047	0.39%	0.077%
294	14.797	14.793	14.807	VV	662	4325	0.06%	0.012%
295	14.810	14.807	14.819	VV	610	3169	0.04%	0.009%
296	14.884	14.819	14.903	VV	1320	39082	0.55%	0.108%
297	14.930	14.903	14.980	VV	1819	45355	0.64%	0.125%
298	14.984	14.980	14.992	VV	594	4051	0.06%	0.011%
299	14.998	14.992	15.005	VV	667	4553	0.06%	0.013%

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300	15.010	15.005	15.019	VV	621	4607	0.06%	0.013%
301	15.039	15.019	15.087	VV	1022	23963	0.34%	0.066%
302	15.100	15.087	15.168	VV	739	21897	0.31%	0.060%
303	15.178	15.168	15.187	VV	557	4565	0.06%	0.013%
304	15.194	15.187	15.199	VV	481	2693	0.04%	0.007%
305	15.209	15.199	15.214	VV	655	4039	0.06%	0.011%
306	15.232	15.214	15.253	VV	672	10861	0.15%	0.030%
307	15.258	15.253	15.269	VV	345	2671	0.04%	0.007%
308	15.282	15.269	15.289	VV	363	3306	0.05%	0.009%
309	15.292	15.289	15.298	VV	527	2549	0.04%	0.007%
310	15.305	15.298	15.320	VV	467	4990	0.07%	0.014%
311	15.351	15.320	15.370	VV	655	13640	0.19%	0.038%
312	15.379	15.370	15.409	VV	556	7935	0.11%	0.022%
313	15.419	15.409	15.425	VV	359	2932	0.04%	0.008%
314	15.467	15.425	15.492	VV	1647	28654	0.40%	0.079%
315	15.497	15.492	15.514	VV	354	3606	0.05%	0.010%
316	15.524	15.514	15.542	VV	342	4281	0.06%	0.012%
317	15.548	15.542	15.552	PV	304	1147	0.02%	0.003%
318	15.555	15.552	15.573	VV	363	2773	0.04%	0.008%
319	15.583	15.573	15.595	VV	322	2910	0.04%	0.008%
320	15.620	15.595	15.627	VV	386	4194	0.06%	0.012%
321	15.642	15.627	15.657	VV	379	5833	0.08%	0.016%
322	15.664	15.657	15.710	VV	426	7934	0.11%	0.022%
323	15.725	15.710	15.731	VV	357	2734	0.04%	0.008%
324	15.749	15.731	15.758	VV	401	4039	0.06%	0.011%
325	15.765	15.758	15.787	VV	321	3729	0.05%	0.010%
326	15.794	15.787	15.805	VV	200	1529	0.02%	0.004%
327	15.820	15.805	15.826	VV	246	2185	0.03%	0.006%
328	15.829	15.826	15.840	VV	212	1135	0.02%	0.003%
329	15.863	15.840	15.867	PV	336	3323	0.05%	0.009%
330	15.878	15.867	15.884	VV	379	2699	0.04%	0.007%
331	15.906	15.884	15.911	VV	760	7554	0.11%	0.021%
332	15.914	15.911	15.924	VV	775	4730	0.07%	0.013%
333	15.946	15.924	15.970	VV	1172	19887	0.28%	0.055%
334	15.980	15.970	16.041	VV	398	9413	0.13%	0.026%
335	16.046	16.041	16.053	VV	187	1021	0.01%	0.003%
336	16.076	16.053	16.084	VV	213	2134	0.03%	0.006%
337	16.108	16.084	16.121	VV	261	3269	0.05%	0.009%
338	16.136	16.121	16.160	VV	232	3339	0.05%	0.009%
339	16.172	16.160	16.181	VV	307	2201	0.03%	0.006%
340	16.200	16.181	16.217	VV	462	4385	0.06%	0.012%
341	16.224	16.217	16.236	VV	250	2026	0.03%	0.006%
342	16.281	16.236	16.300	VV	260	5447	0.08%	0.015%
343	16.315	16.300	16.350	VV	604	6080	0.09%	0.017%
344	16.363	16.350	16.375	VV	426	3882	0.05%	0.011%
345	16.389	16.375	16.404	VV	329	4325	0.06%	0.012%
346	16.441	16.404	16.481	VV	628	16789	0.24%	0.046%
347	16.509	16.481	16.552	VV	997	19422	0.27%	0.054%
348	16.594	16.552	16.634	VV	544	16070	0.23%	0.044%
349	16.645	16.634	16.657	VV	461	4550	0.06%	0.013%
350	16.664	16.657	16.674	VV	300	2931	0.04%	0.008%
351	16.681	16.674	16.687	VV	279	2302	0.03%	0.006%

rteres

352	16.697	16.687	16.704	VV	396	3176	0.04%	0.009%
353	16.739	16.704	16.763	VV	463	11997	0.17%	0.033%
354	16.795	16.763	16.822	VV	604	17167	0.24%	0.047%
355	16.855	16.822	16.873	VV	813	17215	0.24%	0.047%
356	16.892	16.873	16.914	VV	1202	20267	0.28%	0.056%
357	16.947	16.914	16.972	VV	804	18864	0.26%	0.052%
358	16.991	16.972	17.004	VV	549	8047	0.11%	0.022%
359	17.011	17.004	17.019	VV	427	3936	0.06%	0.011%
360	17.052	17.019	17.083	VV	570	16825	0.24%	0.046%
361	17.166	17.083	17.210	VV	830	42535	0.60%	0.117%
362	17.226	17.210	17.252	VV	708	14572	0.20%	0.040%
363	17.273	17.252	17.283	VV	722	11866	0.17%	0.033%
364	17.305	17.283	17.317	VV	1016	17165	0.24%	0.047%
365	17.340	17.317	17.385	VV	1220	35863	0.50%	0.099%
366	17.404	17.385	17.414	VV	912	12676	0.18%	0.035%
367	17.444	17.414	17.499	VV	1040	43958	0.62%	0.121%
368	17.507	17.499	17.518	VV	949	7808	0.11%	0.022%
369	17.603	17.518	17.617	PV	1015	50724	0.71%	0.140%
370	17.637	17.617	17.669	VV	1059	26930	0.38%	0.074%
371	17.675	17.669	17.685	VV	863	7681	0.11%	0.021%
372	17.698	17.685	17.708	VV	861	9785	0.14%	0.027%
373	17.745	17.708	17.755	VV	848	20418	0.29%	0.056%
374	17.777	17.755	17.812	VV	1748	38743	0.54%	0.107%
375	17.822	17.812	17.845	VV	766	12393	0.17%	0.034%
376	17.863	17.845	17.887	VV	534	11703	0.16%	0.032%
377	17.955	17.887	17.970	VV	678	26510	0.37%	0.073%
378	17.975	17.970	17.985	VV	541	4362	0.06%	0.012%
379	17.994	17.985	18.004	VV	566	4757	0.07%	0.013%
380	18.011	18.004	18.019	VV	527	4019	0.06%	0.011%
381	18.060	18.019	18.072	VV	730	16799	0.24%	0.046%
382	18.085	18.072	18.097	VV	659	8113	0.11%	0.022%
383	18.112	18.097	18.130	VV	607	10033	0.14%	0.028%
384	18.158	18.130	18.174	VV	748	14300	0.20%	0.039%
385	18.197	18.174	18.228	VV	1884	28811	0.40%	0.079%
386	18.250	18.228	18.264	VV	413	6470	0.09%	0.018%
387	18.278	18.264	18.286	VV	526	4996	0.07%	0.014%
388	18.295	18.286	18.325	VV	423	7064	0.10%	0.019%
389	18.352	18.325	18.381	VV	443	9699	0.14%	0.027%
390	18.411	18.381	18.427	VV	490	9643	0.14%	0.027%
391	18.474	18.427	18.492	VV	571	13702	0.19%	0.038%
392	18.604	18.492	18.647	VV	1643	59403	0.83%	0.164%
393	18.657	18.647	18.683	VV	432	7621	0.11%	0.021%
394	18.745	18.683	18.756	PV	653	18493	0.26%	0.051%
395	18.863	18.756	18.874	VV	727	35150	0.49%	0.097%
396	18.969	18.874	18.980	VV	761	35088	0.49%	0.097%
397	19.002	18.980	19.025	VV	1388	25959	0.36%	0.072%
398	19.031	19.025	19.045	VV	823	8363	0.12%	0.023%
399	19.051	19.045	19.071	VV	698	9234	0.13%	0.025%
400	19.129	19.071	19.143	VV	917	31404	0.44%	0.087%
401	19.183	19.143	19.210	VV	865	30364	0.43%	0.084%
402	19.264	19.210	19.272	VV	1066	31156	0.44%	0.086%
403	19.290	19.272	19.310	VV	1082	23188	0.33%	0.064%
404	19.384	19.310	19.407	VV	2196	82444	1.16%	0.227%

rteres

405	19.419	19.407	19.428	VV	1346	16158	0.23%	0.045%
406	19.482	19.428	19.497	VV	1535	55368	0.78%	0.153%
407	19.502	19.497	19.508	VV	1383	9182	0.13%	0.025%
408	19.586	19.508	19.594	VV	1763	81534	1.14%	0.225%
409	19.630	19.594	19.639	VV	1869	48993	0.69%	0.135%
410	19.762	19.639	19.782	VV	2885	186613	2.62%	0.514%
411	19.799	19.782	19.809	VV	2401	36242	0.51%	0.100%
412	19.949	19.809	19.975	VV	3272	279179	3.92%	0.769%
413	20.032	19.975	20.058	VV	5411	193906	2.72%	0.534%
414	20.066	20.058	20.077	VV	3702	42204	0.59%	0.116%
415	20.121	20.077	20.139	VV	4588	151402	2.12%	0.417%
416	20.230	20.139	20.241	VV	4721	277495	3.89%	0.765%
417	20.474	20.241	20.500	VV	6336	855543	12.00%	2.358%
418	20.536	20.500	20.549	VV	6231	178117	2.50%	0.491%
419	20.561	20.549	20.574	VV	6378	92666	1.30%	0.255%
420	20.585	20.574	20.595	VV	6107	79361	1.11%	0.219%
421	20.670	20.595	20.726	VV	6341	473756	6.64%	1.306%
422	20.748	20.726	20.780	VV	5677	178409	2.50%	0.492%
423	20.791	20.780	20.822	VV	5457	134066	1.88%	0.369%
424	20.866	20.822	20.898	VV	5477	244082	3.42%	0.673%
425	20.913	20.898	20.982	VV	5068	235120	3.30%	0.648%
426	20.993	20.982	21.058	VV	4548	190972	2.68%	0.526%
427	21.082	21.058	21.113	VV	4047	129667	1.82%	0.357%
428	21.126	21.113	21.149	VV	4049	81206	1.14%	0.224%
429	21.195	21.149	21.249	VV	3712	211441	2.97%	0.583%
430	21.272	21.249	21.347	VV	3287	176629	2.48%	0.487%
431	21.385	21.347	21.402	VV	2840	88406	1.24%	0.244%
432	21.428	21.402	21.475	VV	2568	105941	1.49%	0.292%
433	21.485	21.475	21.535	VV	2246	73593	1.03%	0.203%
434	21.561	21.535	21.583	VV	2023	53725	0.75%	0.148%
435	21.601	21.583	21.638	VV	1962	57267	0.80%	0.158%
436	21.657	21.638	21.674	VV	1532	31581	0.44%	0.087%
437	21.694	21.674	21.709	VV	1464	27860	0.39%	0.077%
438	21.712	21.709	21.752	VV	1451	30166	0.42%	0.083%
439	21.771	21.752	21.825	VV	1439	43556	0.61%	0.120%
440	21.867	21.825	21.882	PV	553	14435	0.20%	0.040%
441	21.893	21.882	21.904	VV	293	2481	0.03%	0.007%

Sum of corrected areas: 36287276

Aromatic EPH 040725.M Thu Apr 10 02:35:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068539.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 00:04
Operator : YP/AJ
Sample : Q1746-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EB-2025-4-7

Integration File: autoint1.e
Quant Time: Apr 10 05:27:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.149	3916930	42.166 ug/ml
Spiked Amount 50.000		Recovery = 84.33%	
Target Compounds			

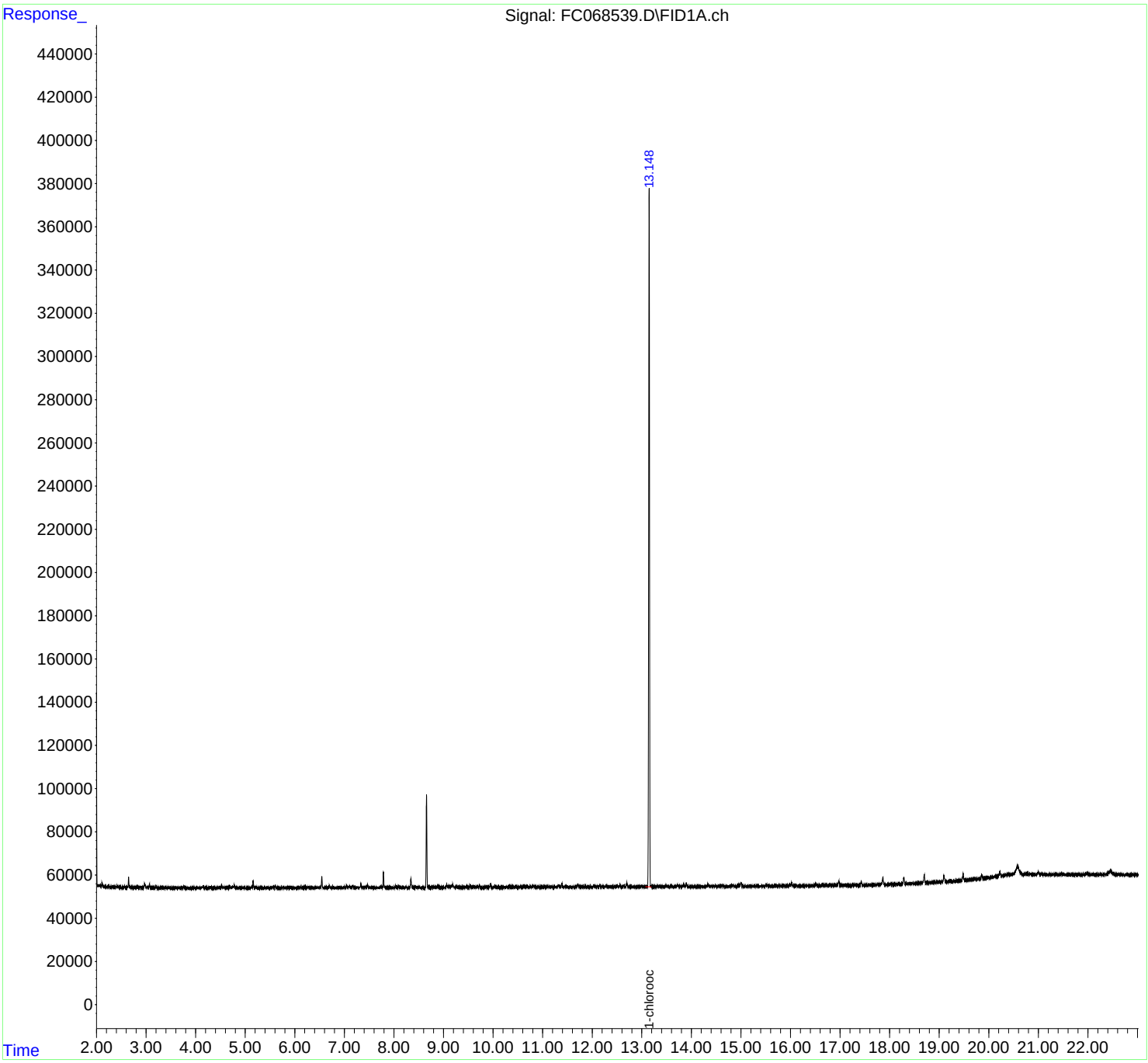
(f)=RT Delta > 1/2 Window (m)=manual int.

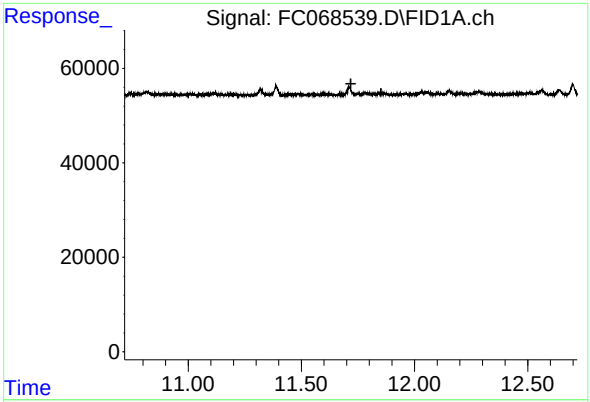
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068539.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 00:04
Operator : YP/AJ
Sample : Q1746-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EB-2025-4-7

Integration File: autoint1.e
Quant Time: Apr 10 05:27:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

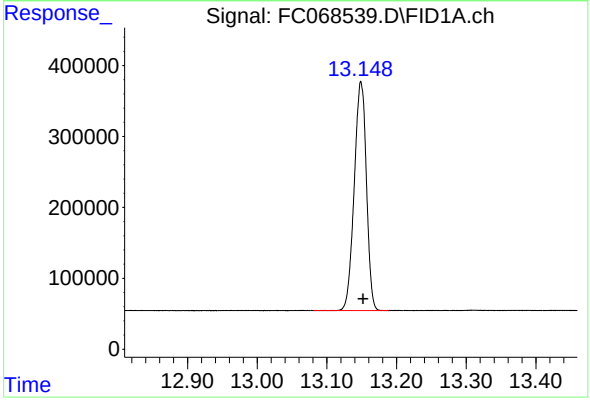




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EB-2025-4-7



#12 1-chlorooctadecane (SURR)

R.T.: 13.149 min
Delta R.T.: -0.003 min
Response: 3916930
Conc: 42.17 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068539.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 00:04
Sample : Q1746-07
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.159	5.097	5.187	BV	3349	40144	1.02%	0.861%
2	6.546	6.500	6.572	BB	5116	50997	1.30%	1.093%
3	7.788	7.762	7.812	BB	7339	68702	1.75%	1.473%
4	8.343	8.295	8.365	BB	4139	43434	1.11%	0.931%
5	8.657	8.602	8.707	BB	42794	436317	11.14%	9.355%
6	13.149	13.080	13.189	BB	322848	3916930	100.00%	83.978%
7	17.864	17.810	17.910	BB	3436	49741	1.27%	1.066%
8	18.698	18.629	18.737	BB	3865	57984	1.48%	1.243%
			Sum of corrected areas:			4664248		

Aliphatic EPH 040925.M Tue Apr 15 08:23:39 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049261.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 18:31
Operator : YP/AJ
Sample : Q1746-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EB-2025-4-7

Integration File: autoint1.e
Quant Time: Apr 10 02:09:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.750	5686931	38.391 ug/ml
Spiked Amount 50.000		Recovery = 76.78%	
6) S 2-Flurobiphenyl (SURR)	8.616	3521137	34.520 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 69.04%	
11) S ortho-Terphenyl (SURR)	11.659	6256507	35.511 ug/ml
Spiked Amount 50.000		Recovery = 71.02%	
Target Compounds			

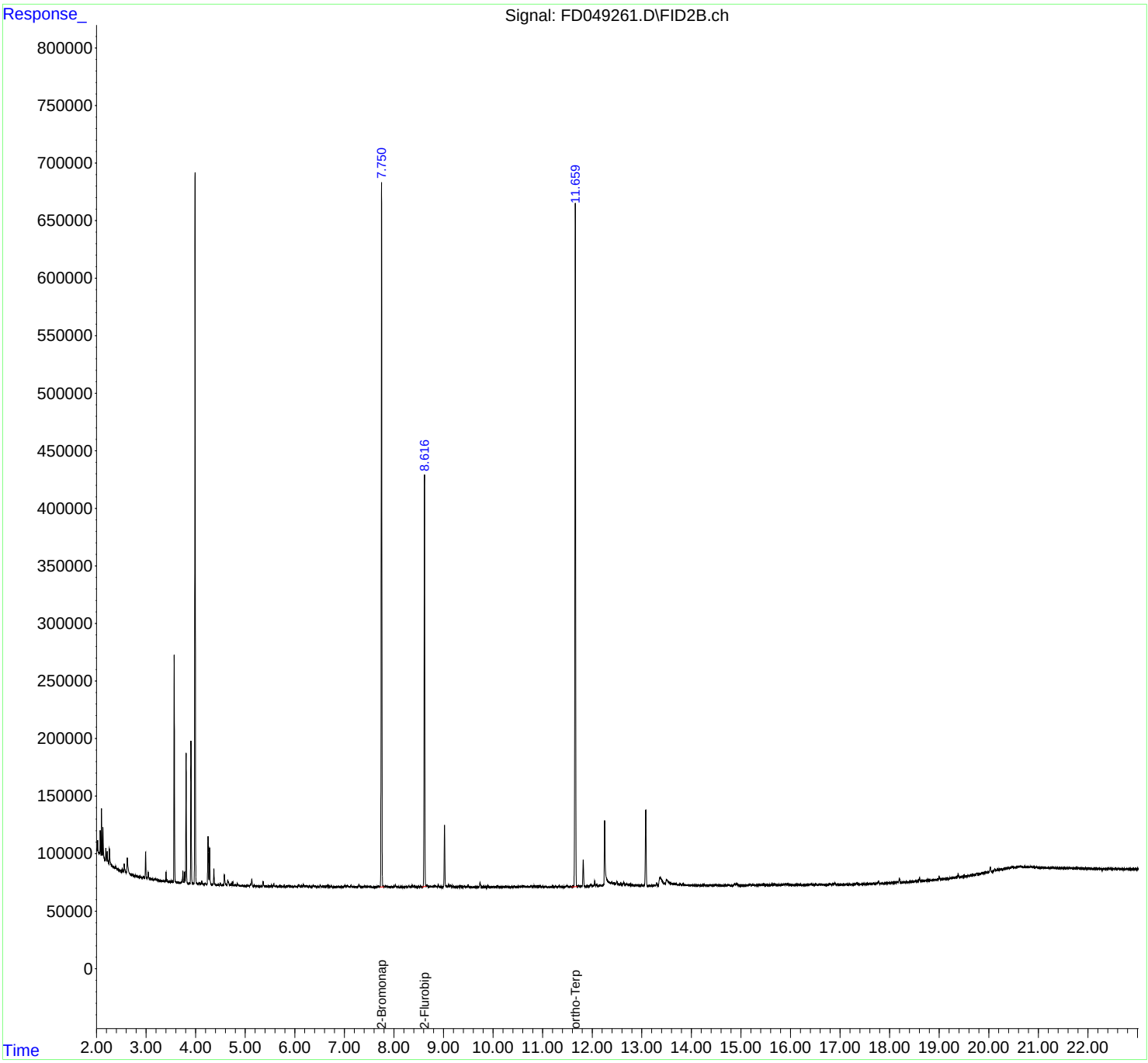
(f)=RT Delta > 1/2 Window (m)=manual int.

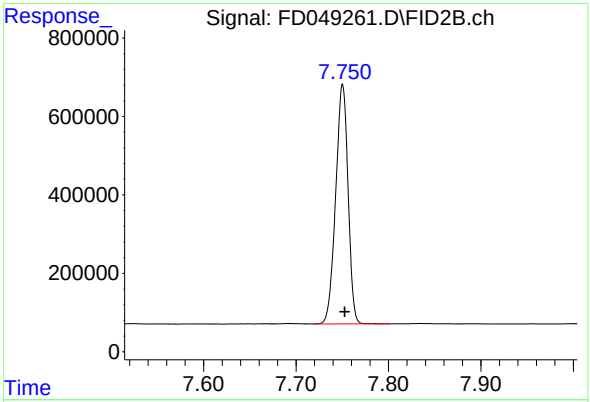
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049261.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 18:31
Operator : YP/AJ
Sample : Q1746-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EB-2025-4-7

Integration File: autoint1.e
Quant Time: Apr 10 02:09:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

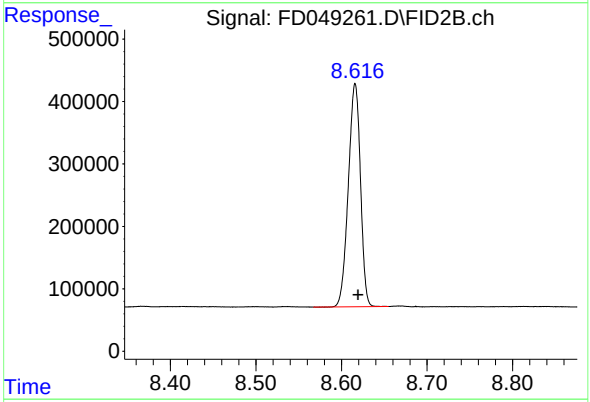




#4 2-Bromonaphthalene (SURR)

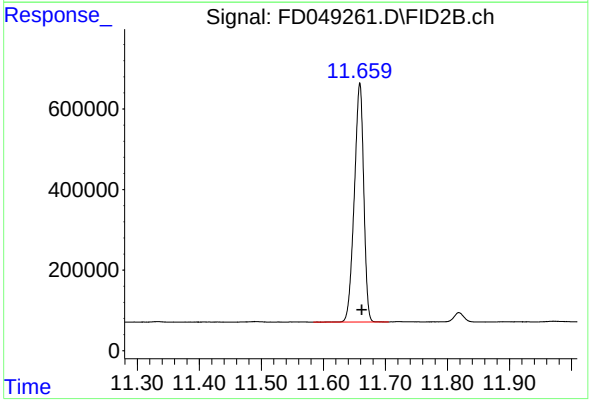
R.T.: 7.750 min
Delta R.T.: -0.002 min
Response: 5686931
Conc: 38.39 ug/ml

Instrument :
FID_D
ClientSampleId :
EB-2025-4-7



#6 2-Flurobiphenyl (SURR)

R.T.: 8.616 min
Delta R.T.: -0.003 min
Response: 3521137
Conc: 34.52 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.659 min
Delta R.T.: -0.003 min
Response: 6256507
Conc: 35.51 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049261.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 18:31
Sample : Q1746-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.750	7.719	7.800	VV	611883	5686931	90.90%	31.091%
2	8.616	8.567	8.655	BV	357281	3521137	56.28%	19.251%
3	9.021	8.979	9.046	BV	53197	503107	8.04%	2.751%
4	9.737	9.685	9.762	PV	4099	47889	0.77%	0.262%
5	11.659	11.584	11.705	BV	593476	6256507	100.00%	34.205%
6	11.819	11.744	11.862	BB	23152	254620	4.07%	1.392%
7	12.050	12.014	12.072	VV	4721	51675	0.83%	0.283%
8	12.250	12.180	12.375	BV	56037	764761	12.22%	4.181%
9	13.081	13.019	13.115	BV	66213	773553	12.36%	4.229%
10	13.374	13.320	13.477	PV	6738	274354	4.39%	1.500%
11	13.497	13.477	13.577	VB	3874	107179	1.71%	0.586%
12	18.196	18.175	18.235	VB	3710	49399	0.79%	0.270%
					Sum of corrected areas:	18291110		

Aromatic EPH 040725.M Tue Apr 15 08:24:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068560.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 21:36
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 03:45:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.143	3367296	36.249 ug/ml
Spiked Amount 50.000		Recovery = 72.50%	
Target Compounds			

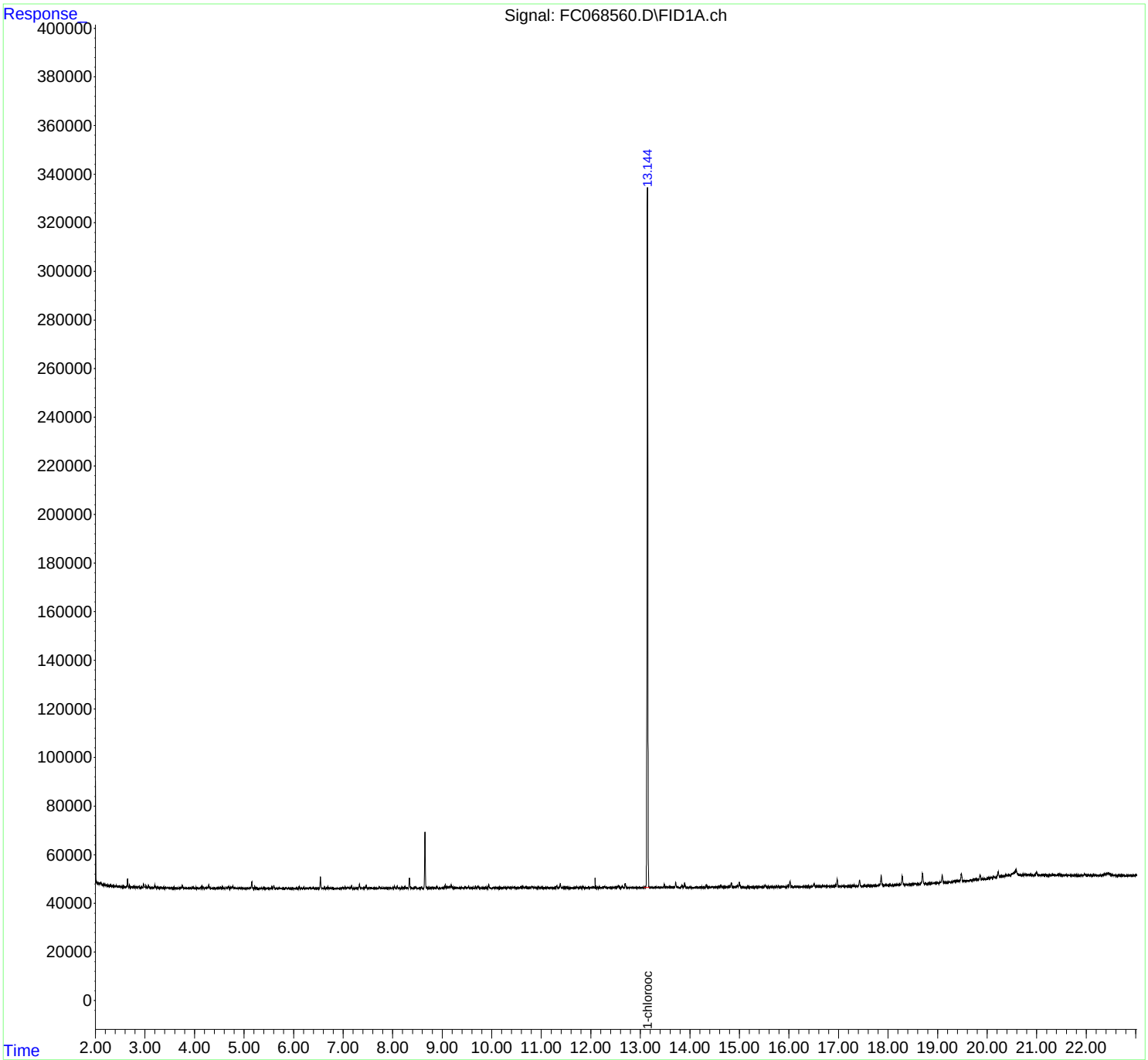
(f)=RT Delta > 1/2 Window (m)=manual int.

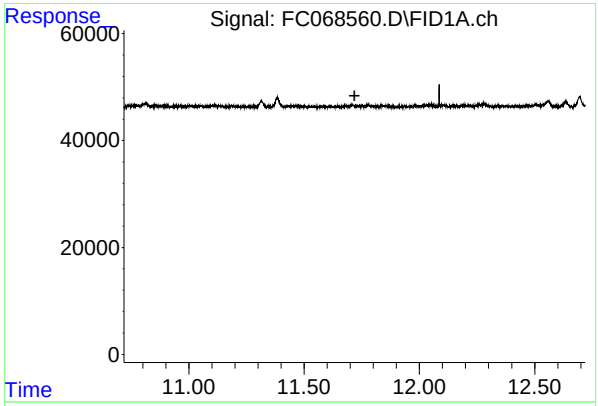
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068560.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 21:36
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 03:45:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

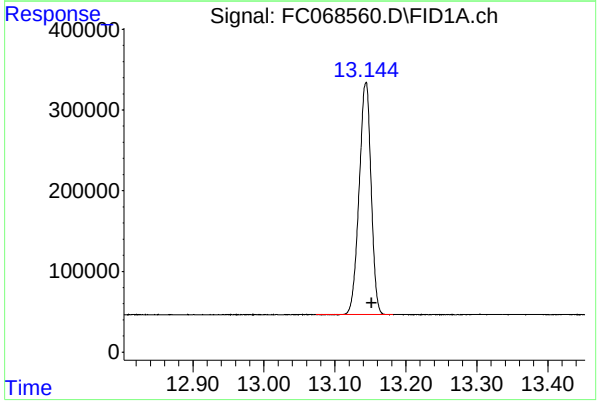




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB167513BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.143 min
Delta R.T.: -0.008 min
Response: 3367296
Conc: 36.25 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068560.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 21:36
Sample : PB167513BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.143	13.074	13.182	BB	287294	3367296	100.00%	100.000%
			Sum of corrected areas:			3367296		

Aliphatic EPH 040925.M Fri Apr 11 04:48:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049269.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 14:48
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 01:02:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.750	7195070	48.572 ug/ml
Spiked Amount 50.000		Recovery =	97.14%
6) S 2-Flurobiphenyl (SURR)	8.616	4667252	45.756 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	91.51%
11) S ortho-Terphenyl (SURR)	11.658	7315586	41.523 ug/ml
Spiked Amount 50.000		Recovery =	83.05%
Target Compounds			

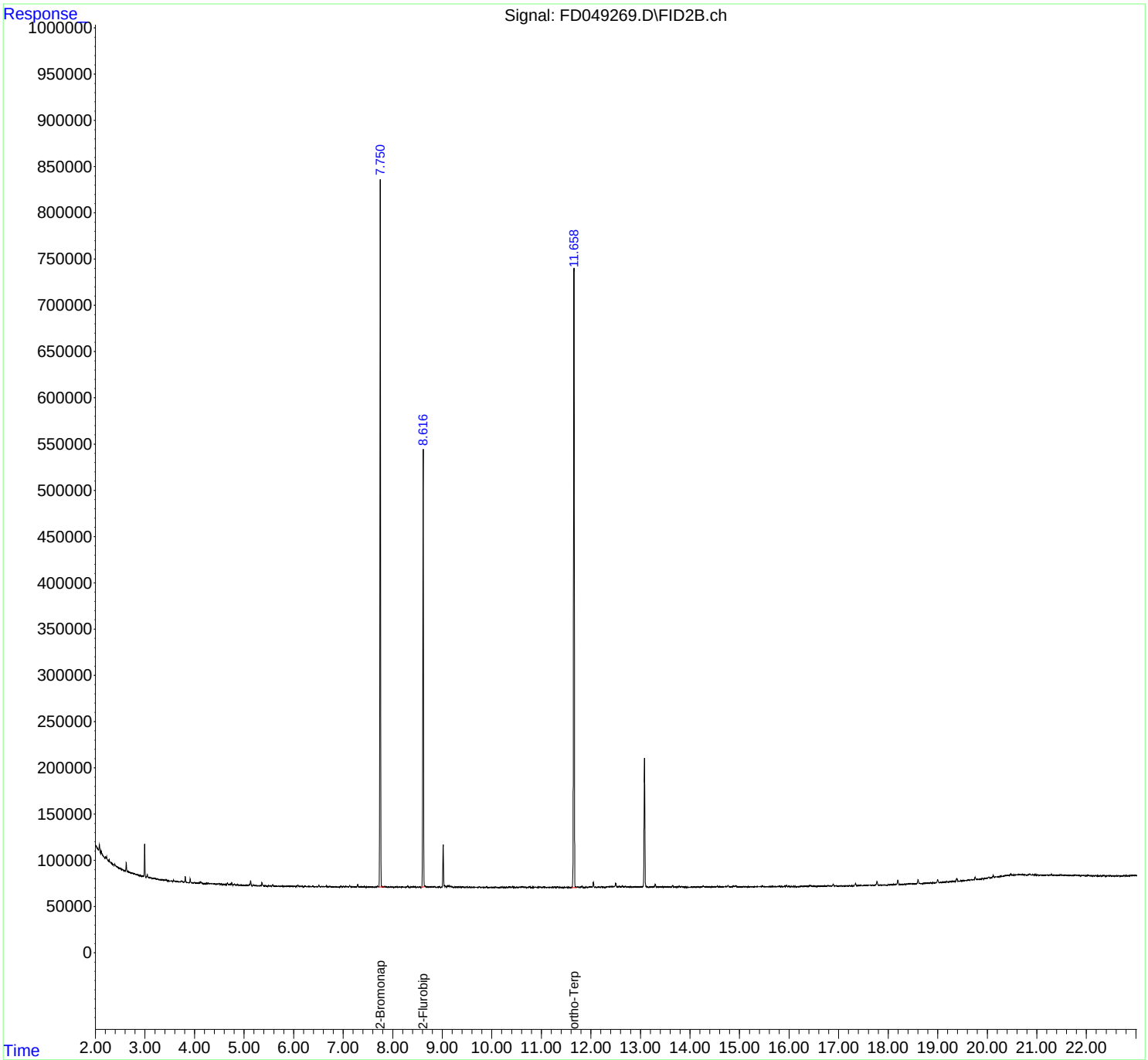
(f)=RT Delta > 1/2 Window (m)=manual int.

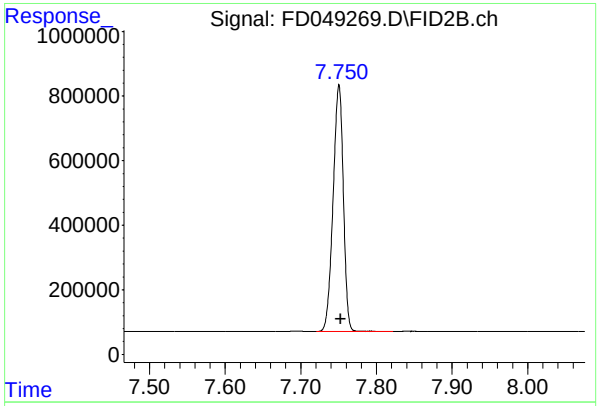
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049269.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 14:48
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 01:02:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

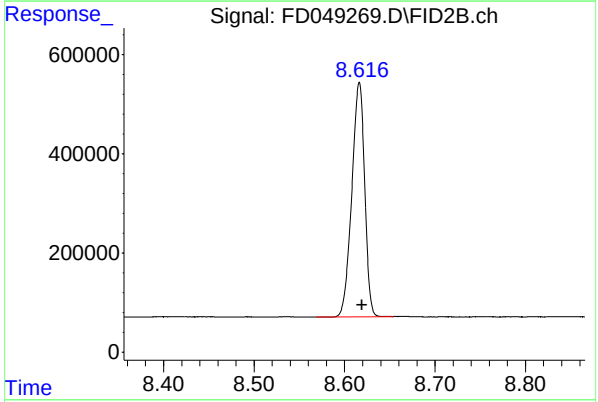




#4 2-Bromonaphthalene (SURR)

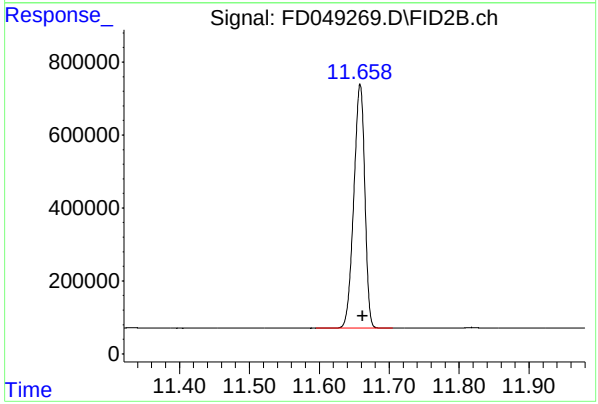
R.T.: 7.750 min
Delta R.T.: -0.002 min
Response: 7195070
Conc: 48.57 ug/ml

Instrument :
FID_D
ClientSampleId :
PB167513BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.616 min
Delta R.T.: -0.003 min
Response: 4667252
Conc: 45.76 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.658 min
Delta R.T.: -0.004 min
Response: 7315586
Conc: 41.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049269.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 14:48
Sample : PB167513BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.751	7.720	7.822	BB	763333	7195070	98.35%	37.517%
2	8.616	8.569	8.654	BV	474139	4667252	63.80%	24.337%
3	11.658	11.595	11.705	BV	668880	7315586	100.00%	38.146%
			Sum of corrected areas:			19177908		

Aromatic EPH 040725.M Fri Apr 11 01:33:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068536.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 22:13
Operator : YP/AJ
Sample : PB167524BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167524BL

Integration File: autoint1.e
Quant Time: Apr 10 05:26:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.146	4416517	47.544 ug/ml
Spiked Amount 50.000		Recovery = 95.09%	
Target Compounds			

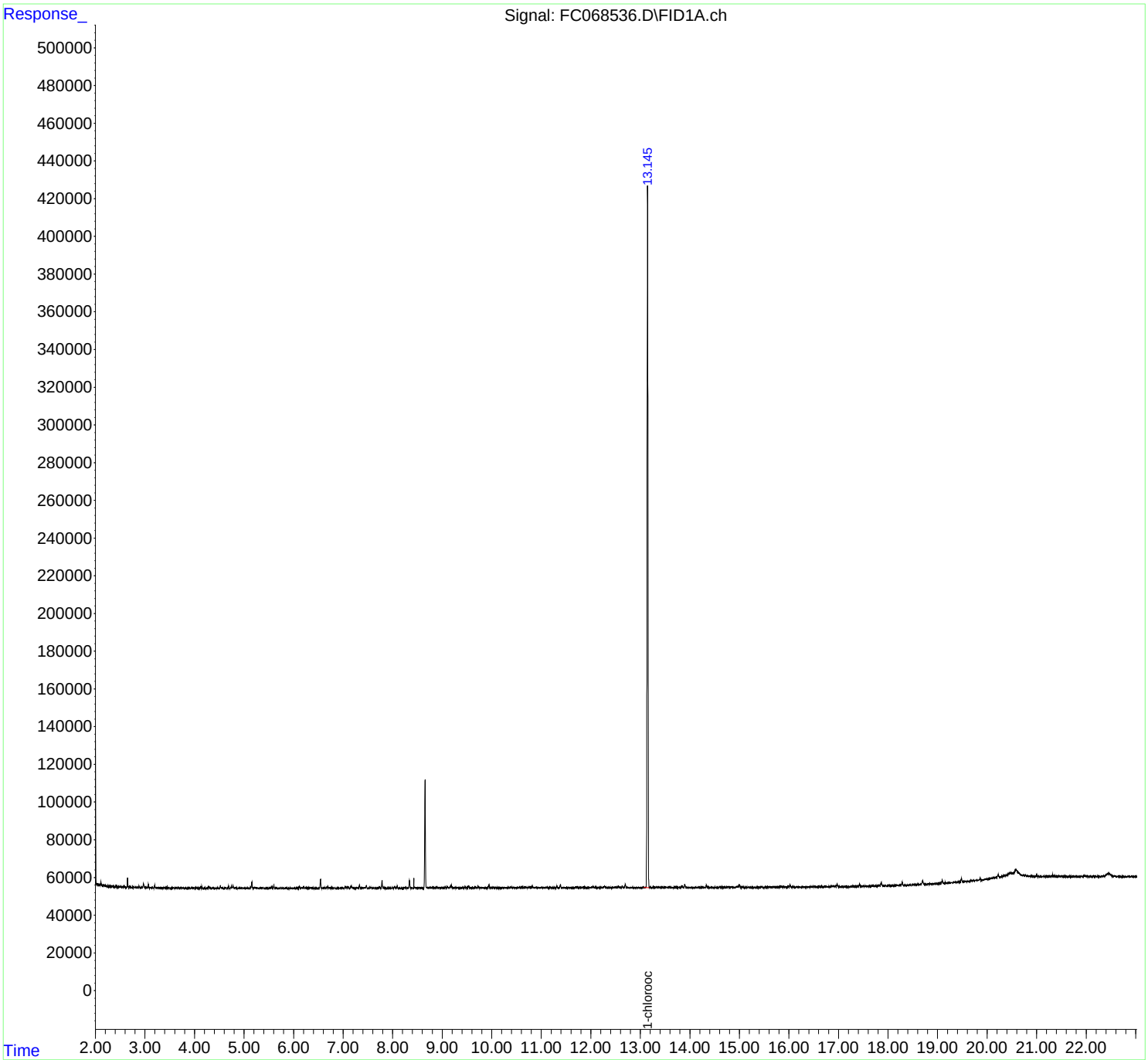
(f)=RT Delta > 1/2 Window (m)=manual int.

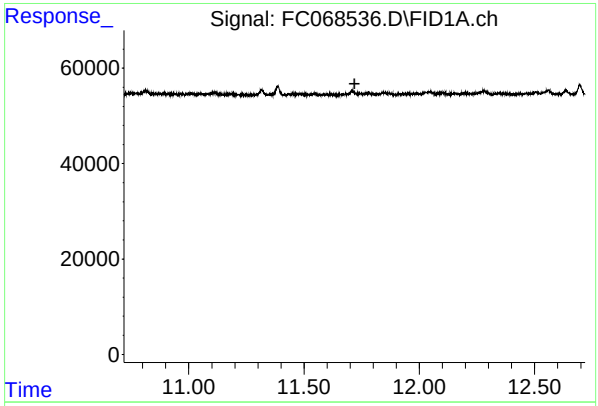
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068536.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 22:13
Operator : YP/AJ
Sample : PB167524BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167524BL

Integration File: autoint1.e
Quant Time: Apr 10 05:26:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

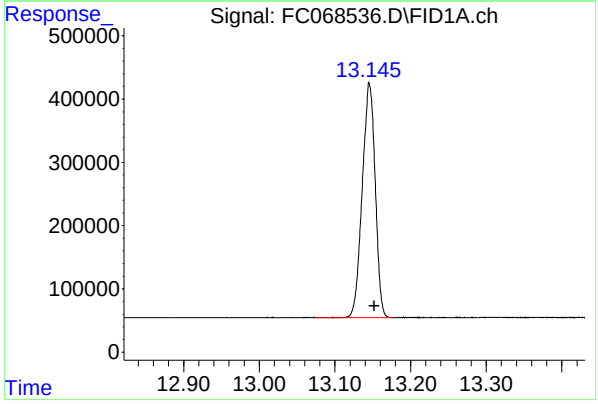




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB167524BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.146 min
Delta R.T.: -0.006 min
Response: 4416517
Conc: 47.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068536.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 22:13
Sample : PB167524BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.146	13.075	13.177	BB	371784	4416517	100.00%	100.000%
			Sum of corrected areas:			4416517		

Aliphatic EPH 040925.M Thu Apr 10 06:03:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049258.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 16:38
Operator : YP/AJ
Sample : PB167524BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167524BL

Integration File: autoint1.e
Quant Time: Apr 10 02:08:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.751	6250580	42.196 ug/ml
Spiked Amount 50.000		Recovery = 84.39%	
6) S 2-Flurobiphenyl (SURR)	8.616	3649949	35.783 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 71.57%	
11) S ortho-Terphenyl (SURR)	11.660	6658414	37.793 ug/ml
Spiked Amount 50.000		Recovery = 75.59%	
Target Compounds			

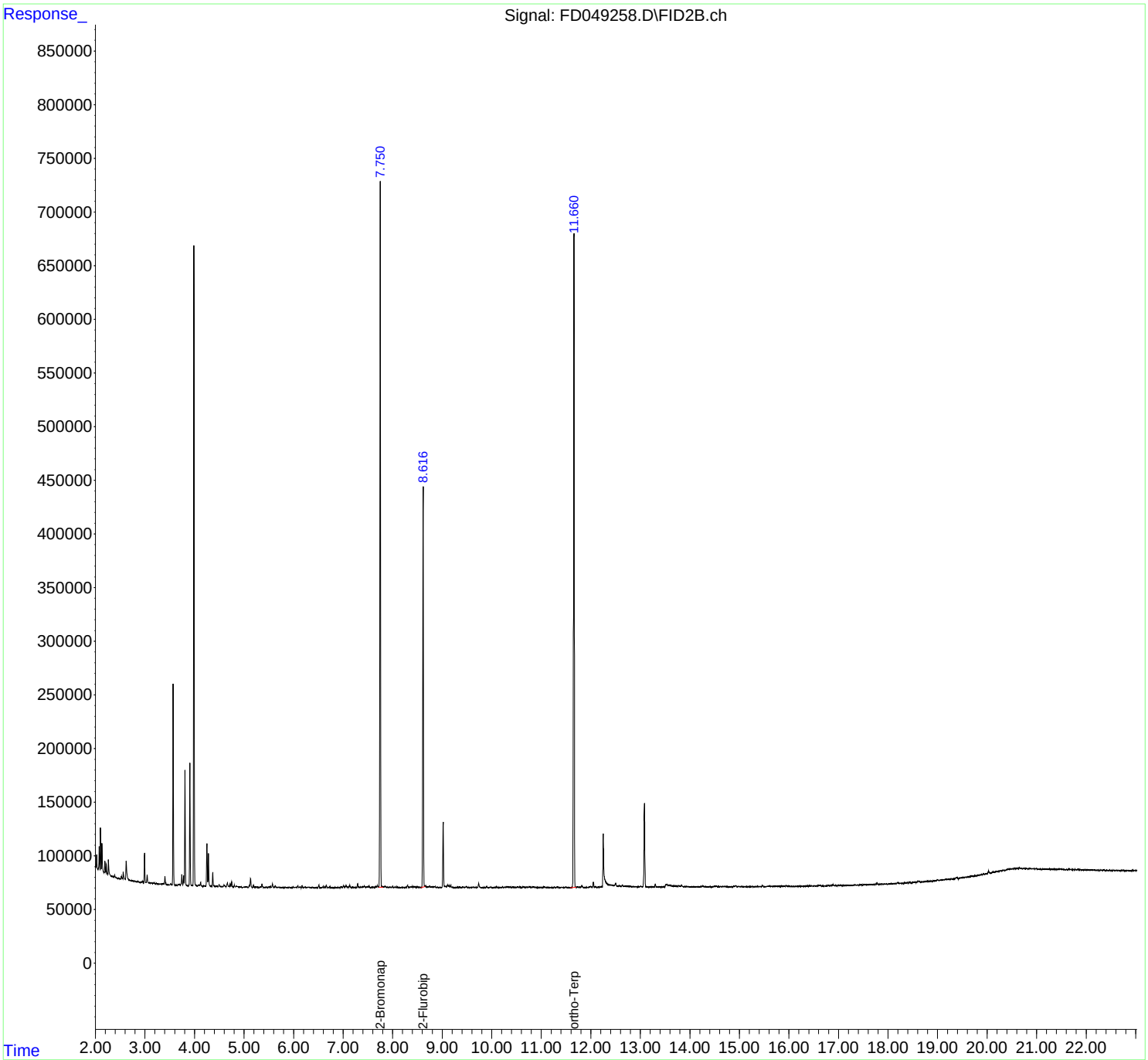
(f)=RT Delta > 1/2 Window (m)=manual int.

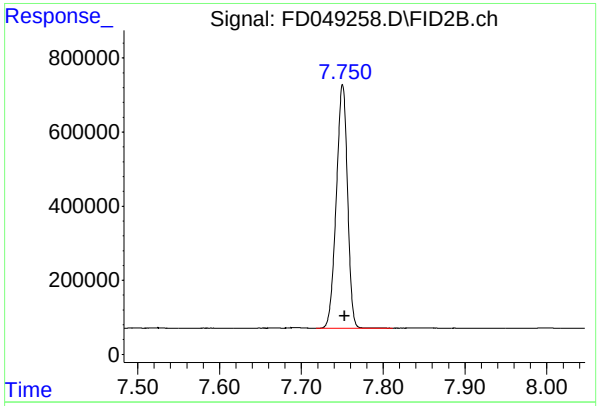
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049258.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 16:38
Operator : YP/AJ
Sample : PB167524BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167524BL

Integration File: autoint1.e
Quant Time: Apr 10 02:08:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

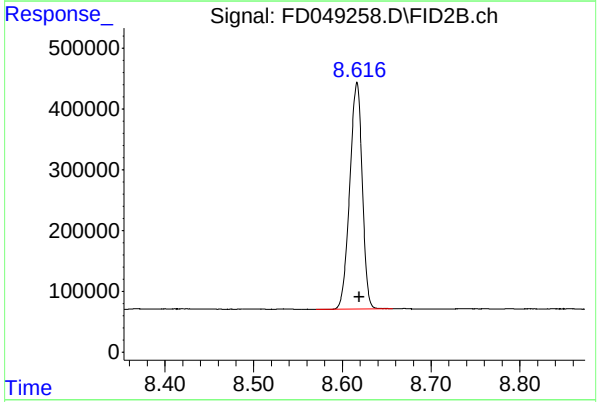




#4 2-Bromonaphthalene (SURR)

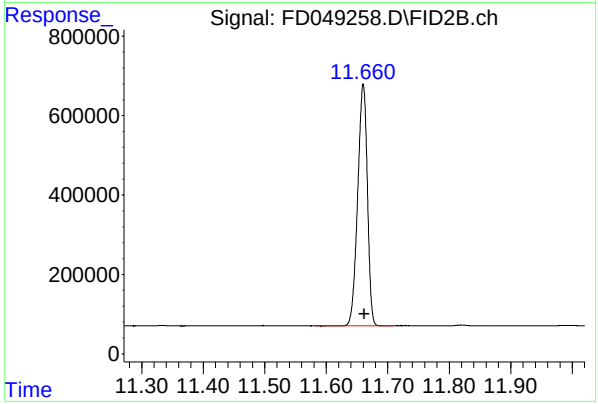
R.T.: 7.751 min
Delta R.T.: -0.002 min
Response: 6250580
Conc: 42.20 ug/ml

Instrument :
FID_D
ClientSampleId :
PB167524BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.616 min
Delta R.T.: -0.003 min
Response: 3649949
Conc: 35.78 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.660 min
Delta R.T.: -0.002 min
Response: 6658414
Conc: 37.79 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049258.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 16:38
Sample : PB167524BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.751	7.718	7.812	PB	658845	6250580	93.87%	37.747%
2	8.616	8.570	8.657	BV	374336	3649949	54.82%	22.042%
3	11.660	11.584	11.709	BV	609370	6658414	100.00%	40.210%
			Sum of corrected areas:			16558943		

Aromatic EPH 040725.M Thu Apr 10 02:30:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068561.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:14
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 03:46:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.144	3476251	37.422 ug/ml
Spiked Amount	50.000		Recovery =	74.84%
	Target Compounds			
1) T	n-Nonane (C9)	3.444	2511662	23.847 ug/ml
2) T	n-Decane (C10)	4.519	3059850	29.042 ug/ml
4) T	n-Dodecane (C12)	6.544	3470882	33.005 ug/ml
6) T	n-Tetradecane (C14)	8.342	3939789	38.323 ug/ml
7) T	n-Hexadecane (C16)	9.945	4399158	43.196 ug/ml
8) T	n-Octadecane (C18)	11.388	4700659	46.711 ug/ml
10) T	n-Eicosane (C20)	12.699	4936821	50.191 ug/ml
11) T	n-Heneicosane (C21)	13.312	4753071	48.771 ug/ml
13) T	n-Docosane (C22)	13.898	4760902	49.287 ug/ml
14) T	n-Tetracosane (C24)	15.002	4703534	49.415 ug/ml
15) T	n-Hexacosane (C26)	16.024	4586371	49.102 ug/ml
16) T	n-Octacosane (C28)	16.976	4532861	49.508 ug/ml
17) T	n-Tricontane (C30)	17.864	4546284	49.453 ug/ml
18) T	n-Dotriacontane (C32)	18.699	4463677	48.662 ug/ml
19) T	n-Tetratriacontane (C34)	19.482	4363368	48.840 ug/ml
20) T	n-Hexatriacontane (C36)	20.224	4179719	46.660 ug/ml
21) T	n-Octatriacontane (C38)	20.999	4119074	46.589 ug/ml
22) T	n-Tetracontane (C40)	21.974	4084312	46.252 ug/ml

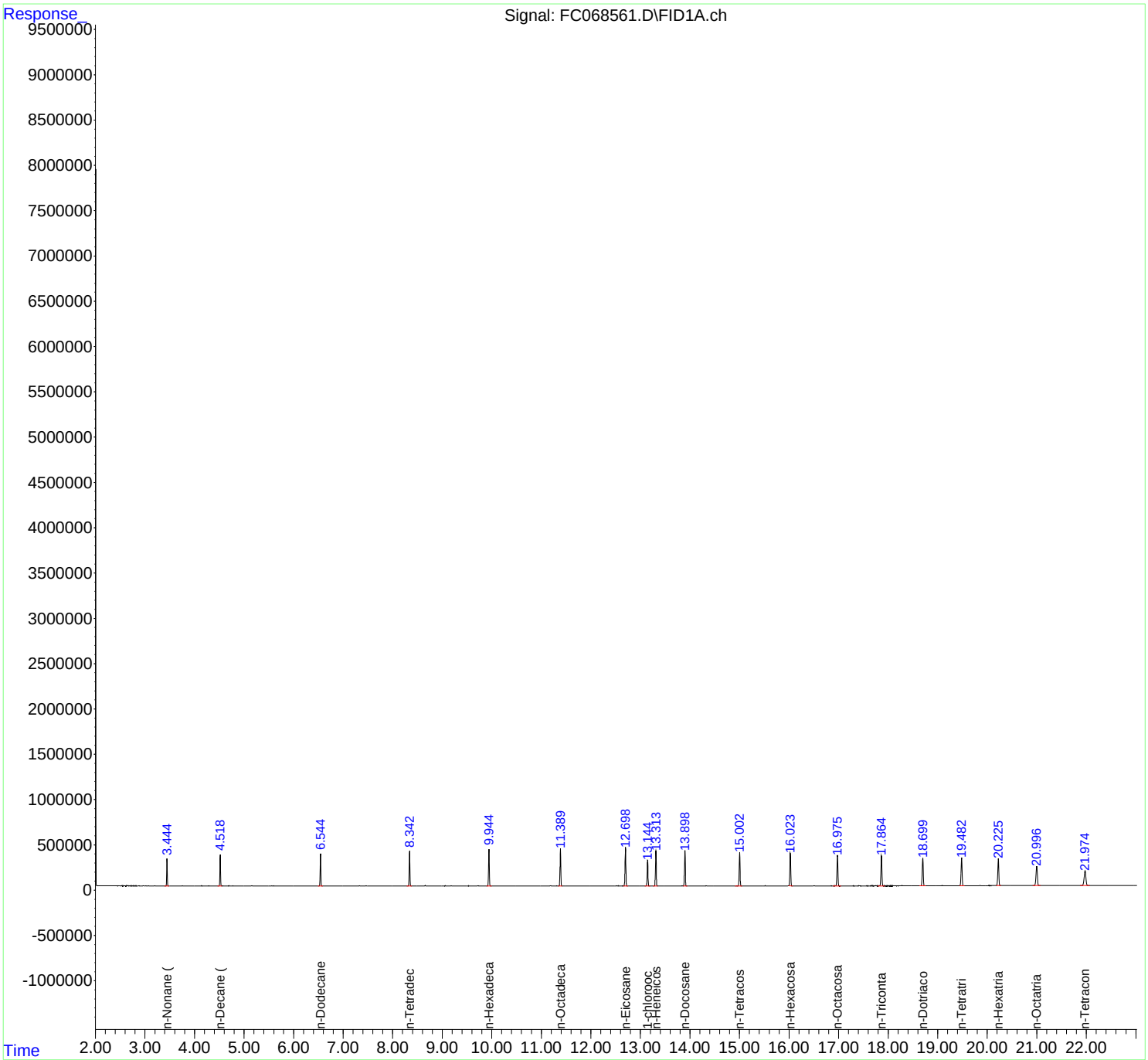
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068561.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:14
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 03:46:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068561.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:14
Sample : PB167513BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.444	3.394	3.489	BB	301119	2511662	50.88%	3.156%
2	4.519	4.465	4.554	BV	345587	3059850	61.98%	3.845%
3	6.544	6.490	6.590	BB	357527	3470882	70.31%	4.361%
4	8.342	8.282	8.389	BB	385247	3939789	79.80%	4.950%
5	9.945	9.895	9.999	BB	406440	4399158	89.11%	5.527%
6	11.388	11.344	11.422	BB	412854	4700659	95.22%	5.906%
7	12.699	12.655	12.750	PB	426124	4936821	100.00%	6.203%
8	13.144	13.087	13.197	BB	286891	3476251	70.41%	4.368%
9	13.312	13.250	13.347	BB	388951	4753071	96.28%	5.972%
10	13.898	13.860	13.945	VB	391043	4760902	96.44%	5.982%
11	15.002	14.907	15.054	BB	373498	4703534	95.27%	5.910%
12	16.024	15.990	16.075	BB	364156	4586371	92.90%	5.763%
13	16.976	16.885	17.050	BB	333913	4532861	91.82%	5.695%
14	17.864	17.797	17.924	BB	332447	4546284	92.09%	5.712%
15	18.699	18.629	18.757	BB	306772	4463677	90.42%	5.608%
16	19.482	19.440	19.539	BB	309022	4363368	88.38%	5.482%
17	20.224	20.180	20.275	BB	292884	4179719	84.66%	5.252%
18	20.999	20.917	21.077	BB	210569	4119074	83.44%	5.175%
19	21.974	21.872	22.070	BB	163394	4084312	82.73%	5.132%
			Sum of corrected areas:			79588246		

Aliphatic EPH 040925.M Fri Apr 11 04:48:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049270.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 15:25
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 01:03:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.751	7104793	47.962 ug/ml
	Spiked Amount 50.000		Recovery =	95.92%
6)	S 2-Flurobiphenyl (SURR)	8.617	4968091	48.705 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	97.41%
11)	S ortho-Terphenyl (SURR)	11.658	7270035	41.264 ug/ml
	Spiked Amount 50.000		Recovery =	82.53%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.543	4533934	30.257 ug/ml
2)	T Naphthalene (C11.7)	6.087	5252434	32.079 ug/ml
3)	T 2-Methylnaphthalene (...	7.140	5132521	31.731 ug/ml
5)	T Acenaphthylene (C15.06)	8.420	6241909	35.337 ug/ml
7)	T Acenaphthene (C15.5)	8.716	6641631	38.550 ug/ml
8)	T Flouorene (C16.55)	9.497	6963247	39.931 ug/ml
9)	T Phenanthrene (C19.36)	10.896	7511361	43.769 ug/ml
10)	T Anthracene (C19.43)	10.971	7462992	47.506 ug/ml
12)	T Fluoranthene (C21.85)	12.710	7880228	46.621 ug/ml
13)	T Pyrene (C20.8)	13.009	7922597	47.238 ug/ml
14)	T Benzo[a]anthracene (C...	14.878	7268586	50.566 ug/ml
15)	T Chrysene (C27.41)	14.923	7766084	53.821 ug/ml
16)	T benzo[b]fluoranthene ...	16.429	6964167	50.058 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.465	6921495	50.608 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.810	6658431	51.205 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.176	6939023	56.288 ug/ml
20)	T Dibenz[a,h]anthracene...	18.214	6406338	50.664 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.434	6532365	50.038 ug/ml

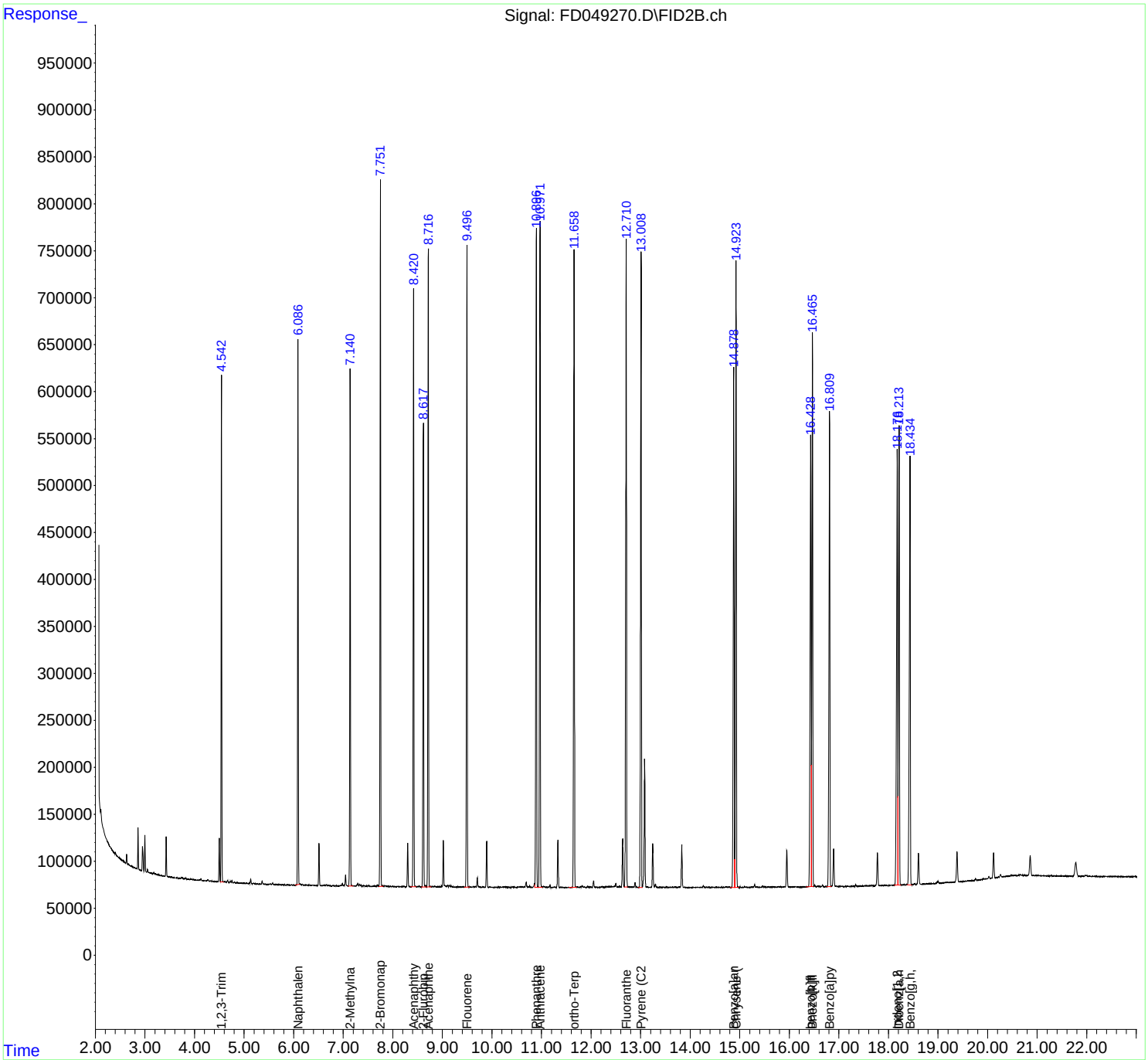
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049270.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 15:25
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 01:03:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049270.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 15:25
Sample : PB167513BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.543	4.520	4.587	VB	538988	4533934	57.23%	3.231%
2	6.087	6.035	6.118	BV	580691	5252434	66.30%	3.743%
3	7.140	7.100	7.202	BV	550996	5132521	64.78%	3.657%
4	7.751	7.720	7.812	BB	752552	7104793	89.68%	5.062%
5	8.420	8.354	8.474	BB	638411	6241909	78.79%	4.448%
6	8.617	8.570	8.660	BV	493427	4968091	62.71%	3.540%
7	8.716	8.685	8.779	VB	679198	6641631	83.83%	4.732%
8	9.497	9.435	9.554	BB	683945	6963247	87.89%	4.962%
9	10.896	10.865	10.935	VV	700351	7511361	94.81%	5.352%
10	10.971	10.935	11.020	VV	711104	7462992	94.20%	5.318%
11	11.658	11.544	11.705	BB	678299	7270035	91.76%	5.180%
12	12.710	12.669	12.737	VB	691584	7880228	99.47%	5.615%
13	13.009	12.945	13.034	BV	676474	7922597	100.00%	5.645%
14	14.878	14.805	14.897	BV	551805	7268586	91.75%	5.179%
15	14.923	14.897	14.984	VB	668372	7766084	98.02%	5.534%
16	16.429	16.335	16.444	BV	481095	6964167	87.90%	4.962%
17	16.465	16.444	16.490	VV	590760	6921495	87.36%	4.932%
18	16.810	16.750	16.841	BV	505267	6658431	84.04%	4.744%
19	18.176	18.110	18.190	BV	463013	6939023	87.59%	4.944%
20	18.214	18.190	18.255	VB	489678	6406338	80.86%	4.565%
21	18.434	18.370	18.474	BV	456444	6532365	82.45%	4.655%
			Sum of corrected areas:			140342260		

Aromatic EPH 040725.M Fri Apr 11 01:34:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049259.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 17:16
Operator : YP/AJ
Sample : PB167524BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167524BS

Integration File: autoint1.e
Quant Time: Apr 10 02:08:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.751	6325577	42.702 ug/ml
	Spiked Amount 50.000		Recovery =	85.40%
6)	S 2-Flurobiphenyl (SURR)	8.617	3899282	38.227 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	76.45%
11)	S ortho-Terphenyl (SURR)	11.659	6555588	37.209 ug/ml
	Spiked Amount 50.000		Recovery =	74.42%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.540	3900743	26.031 ug/ml
2)	T Naphthalene (C11.7)	6.086	4617966	28.204 ug/ml
3)	T 2-Methylnaphthalene (...	7.140	4545577	28.102 ug/ml
5)	T Acenaphthylene (C15.06)	8.420	5524901	31.278 ug/ml
7)	T Acenaphthene (C15.5)	8.716	5568224	32.320 ug/ml
8)	T Flouorene (C16.55)	9.497	6060979	34.757 ug/ml
9)	T Phenanthrene (C19.36)	10.896	6531297	38.058 ug/ml
10)	T Anthracene (C19.43)	10.971	6278500	39.966 ug/ml
12)	T Fluoranthene (C21.85)	12.710	6897734	40.808 ug/ml
13)	T Pyrene (C20.8)	13.008	6777341	40.410 ug/ml
14)	T Benzo[a]anthracene (C...	14.877	6384772	44.417 ug/ml
15)	T Chrysene (C27.41)	14.923	6910808	47.894 ug/ml
16)	T benzo[b]fluoranthene ...	16.429	6243606	44.879 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.464	6170511	45.117 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.809	5727228	44.044 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.176	6131889	49.741 ug/ml
20)	T Dibenz[a,h]anthracene...	18.214	5666848	44.816 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.433	5800633	44.433 ug/ml

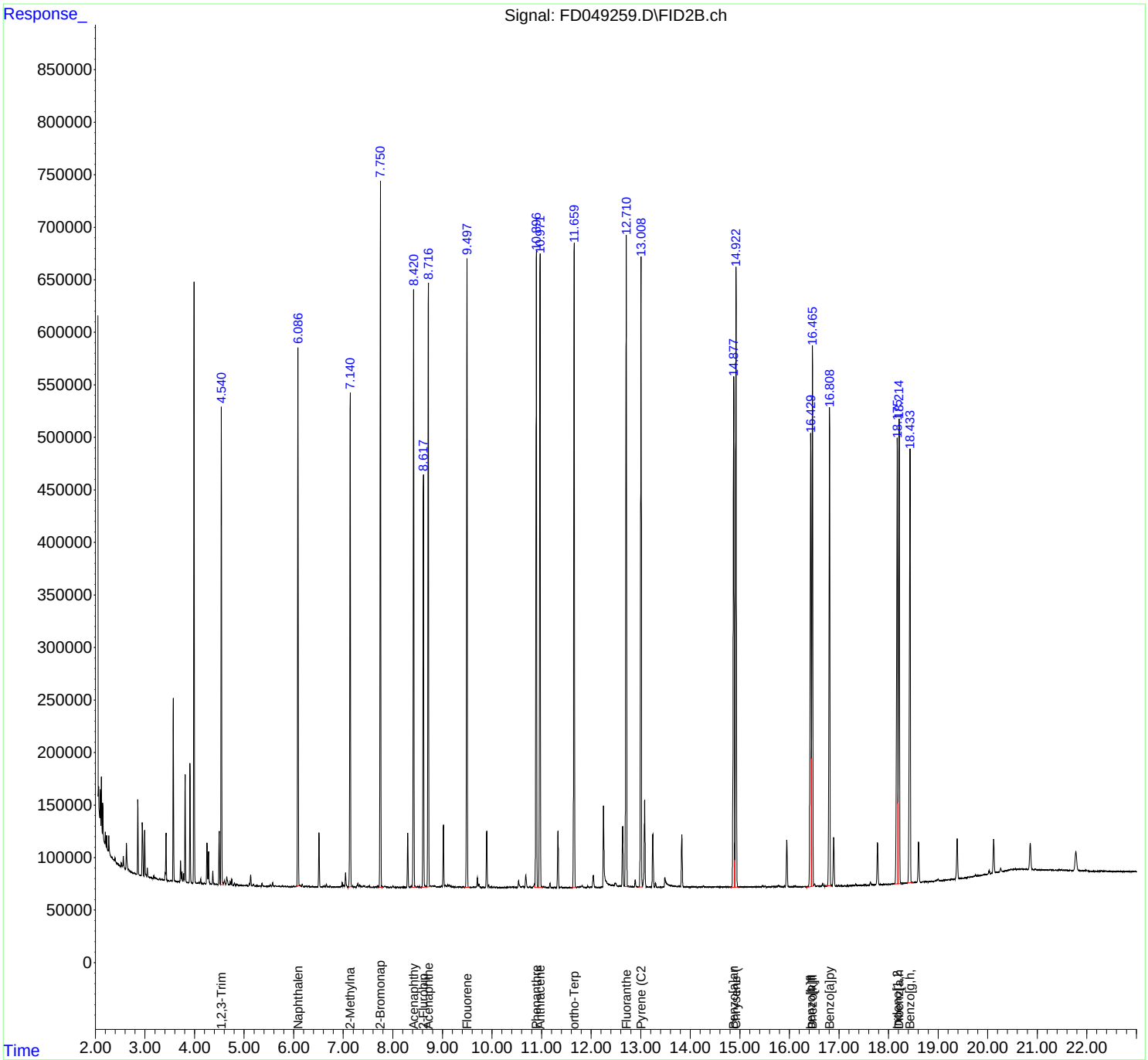
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049259.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 17:16
Operator : YP/AJ
Sample : PB167524BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167524BS

Integration File: autoint1.e
Quant Time: Apr 10 02:08:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049259.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 17:16
Sample : PB167524BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.540	4.518	4.583	VV	454396	3900743	56.44%	3.184%
2	6.086	6.047	6.118	BV	511570	4617966	66.82%	3.769%
3	7.140	7.099	7.172	PV	470468	4545577	65.77%	3.710%
4	7.751	7.720	7.804	PV	672212	6325577	91.53%	5.163%
5	8.420	8.382	8.470	VB	568816	5524901	79.95%	4.509%
6	8.617	8.570	8.659	BV	392992	3899282	56.42%	3.183%
7	8.716	8.685	8.772	VV	574817	5568224	80.57%	4.545%
8	9.497	9.439	9.547	BB	599128	6060979	87.70%	4.947%
9	10.896	10.865	10.930	VV	606306	6531297	94.51%	5.331%
10	10.971	10.930	11.024	VV	602010	6278500	90.85%	5.124%
11	11.659	11.582	11.700	BV	613880	6555588	94.86%	5.351%
12	12.710	12.669	12.777	VB	619526	6897734	99.81%	5.630%
13	13.008	12.947	13.035	BV	600197	6777341	98.07%	5.532%
14	14.877	14.824	14.897	BV	485588	6384772	92.39%	5.211%
15	14.923	14.897	14.984	VB	590443	6910808	100.00%	5.641%
16	16.429	16.342	16.444	PV	430660	6243606	90.35%	5.096%
17	16.464	16.444	16.489	VV	514314	6170511	89.29%	5.036%
18	16.809	16.739	16.839	BV	454828	5727228	82.87%	4.675%
19	18.176	18.110	18.190	BV	424836	6131889	88.73%	5.005%
20	18.214	18.190	18.269	VV	441914	5666848	82.00%	4.625%
21	18.433	18.370	18.487	BB	413768	5800633	83.94%	4.734%
			Sum of corrected areas:			122520001		

Aromatic EPH 040725.M Thu Apr 10 02:31:57 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068537.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 22:50
Operator : YP/AJ
Sample : PB167524BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167524BS

Integration File: autoint1.e
Quant Time: Apr 10 05:26:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.148	3639687	39.181 ug/ml
Spiked Amount	50.000		Recovery =	78.36%
	Target Compounds			
1) T	n-Nonane (C9)	3.446	2422879	23.004 ug/ml
2) T	n-Decane (C10)	4.522	2961495	28.108 ug/ml
4) T	n-Dodecane (C12)	6.547	3348754	31.843 ug/ml
6) T	n-Tetradecane (C14)	8.345	3596865	34.988 ug/ml
7) T	n-Hexadecane (C16)	9.948	3960589	38.890 ug/ml
8) T	n-Octadecane (C18)	11.391	4168338	41.421 ug/ml
10) T	n-Eicosane (C20)	12.702	4332522	44.048 ug/ml
11) T	n-Heneicosane (C21)	13.315	4162604	42.712 ug/ml
13) T	n-Docosane (C22)	13.901	4133922	42.796 ug/ml
14) T	n-Tetracosane (C24)	15.006	4128067	43.369 ug/ml
15) T	n-Hexacosane (C26)	16.028	4006546	42.895 ug/ml
16) T	n-Octacosane (C28)	16.980	3957869	43.228 ug/ml
17) T	n-Tricontane (C30)	17.868	4007079	43.587 ug/ml
18) T	n-Dotriacontane (C32)	18.702	3969405	43.273 ug/ml
19) T	n-Tetratriacontane (C34)	19.487	3944299	44.150 ug/ml
20) T	n-Hexatriacontane (C36)	20.228	3842934	42.900 ug/ml
21) T	n-Octatriacontane (C38)	21.005	3840578	43.439 ug/ml
22) T	n-Tetracontane (C40)	21.985	3709731	42.010 ug/ml

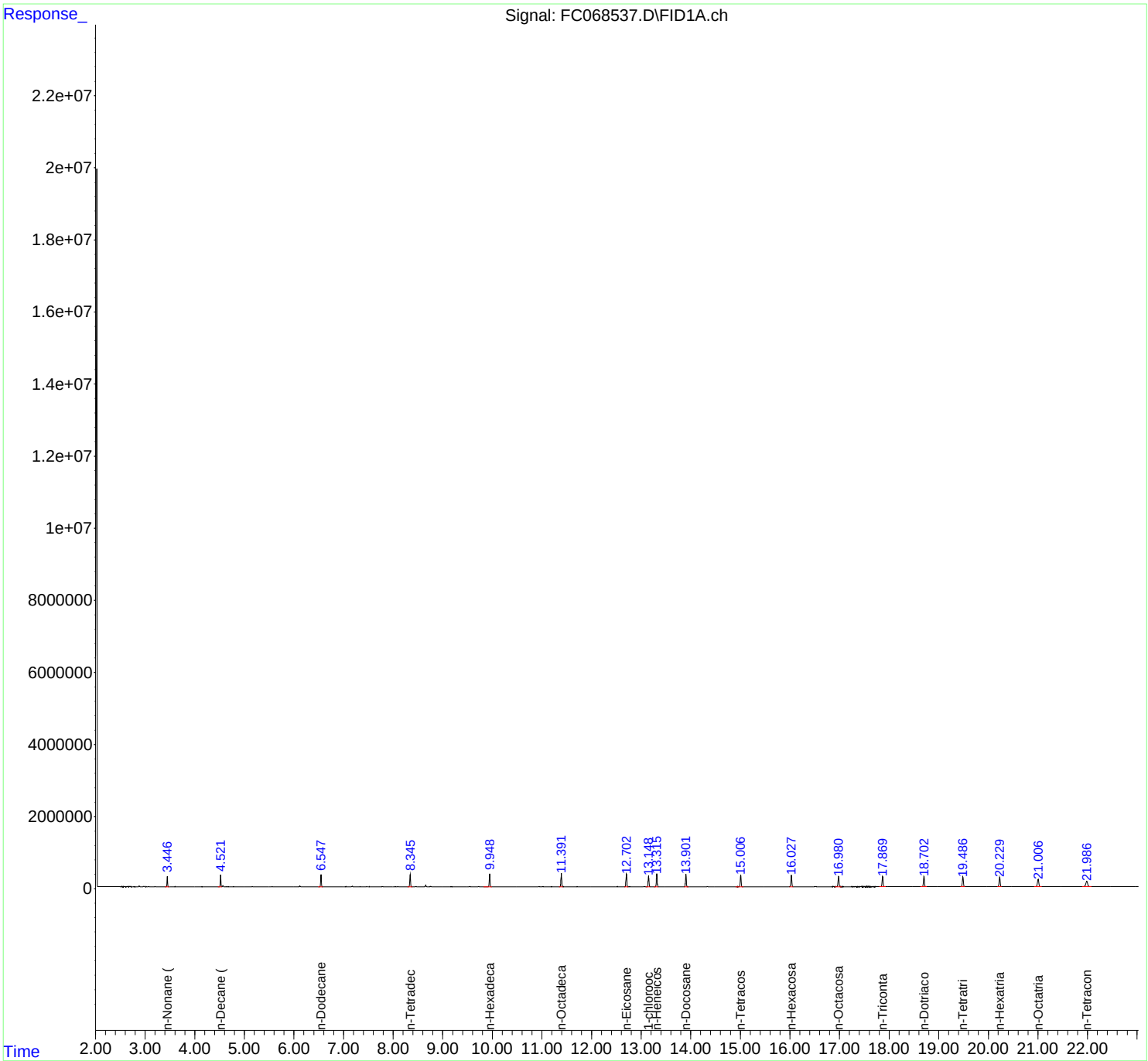
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068537.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 22:50
Operator : YP/AJ
Sample : PB167524BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167524BS

Integration File: autoint1.e
Quant Time: Apr 10 05:26:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068537.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 22:50
Sample : PB167524BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.446	3.397	3.483	BB	295419	2422879	55.92%	3.359%
2	4.522	4.463	4.547	BV	332999	2961495	68.35%	4.106%
3	6.547	6.487	6.582	BB	343856	3348754	77.29%	4.642%
4	8.345	8.287	8.387	BB	339632	3596865	83.02%	4.986%
5	9.948	9.822	9.988	BB	360942	3960589	91.42%	5.491%
6	11.391	11.345	11.425	BB	366156	4168338	96.21%	5.779%
7	12.702	12.660	12.742	PV	357853	4332522	100.00%	6.006%
8	13.148	13.095	13.182	BB	309428	3639687	84.01%	5.046%
9	13.315	13.255	13.347	BB	352748	4162604	96.08%	5.771%
10	13.901	13.864	13.953	VB	348819	4133922	95.42%	5.731%
11	15.006	14.902	15.060	BB	331742	4128067	95.28%	5.723%
12	16.028	15.990	16.065	BB	321761	4006546	92.48%	5.554%
13	16.980	16.902	17.043	BB	286626	3957869	91.35%	5.487%
14	17.868	17.800	17.930	BB	285772	4007079	92.49%	5.555%
15	18.702	18.628	18.758	BB	284553	3969405	91.62%	5.503%
16	19.487	19.440	19.530	BB	274345	3944299	91.04%	5.468%
17	20.228	20.180	20.268	BB	254682	3842934	88.70%	5.327%
18	21.005	20.918	21.075	BB	203855	3840578	88.65%	5.324%
19	21.985	21.890	22.082	BB	151929	3709731	85.63%	5.143%
			Sum of corrected areas:			72134161		

Aliphatic EPH 040925.M Thu Apr 10 06:03:40 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049271.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:01
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 01:03:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.750	6686285	45.137 ug/ml
	Spiked Amount 50.000		Recovery =	90.27%
6)	S 2-Flurobiphenyl (SURR)	8.617	4699720	46.074 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	92.15%
11)	S ortho-Terphenyl (SURR)	11.657	6796630	38.577 ug/ml
	Spiked Amount 50.000		Recovery =	77.15%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.542	4288364	28.618 ug/ml
2)	T Naphthalene (C11.7)	6.086	5013350	30.619 ug/ml
3)	T 2-Methylnaphthalene (...	7.140	4859873	30.045 ug/ml
5)	T Acenaphthylene (C15.06)	8.419	5905050	33.430 ug/ml
7)	T Acenaphthene (C15.5)	8.716	6283963	36.474 ug/ml
8)	T Flouorene (C16.55)	9.496	6570594	37.680 ug/ml
9)	T Phenanthrene (C19.36)	10.895	7099181	41.367 ug/ml
10)	T Anthracene (C19.43)	10.971	7063026	44.960 ug/ml
12)	T Fluoranthene (C21.85)	12.709	7454671	44.103 ug/ml
13)	T Pyrene (C20.8)	13.008	7492447	44.673 ug/ml
14)	T Benzo[a]anthracene (C...	14.877	6956927	48.398 ug/ml
15)	T Chrysene (C27.41)	14.922	7407680	51.337 ug/ml
16)	T benzo[b]fluoranthene ...	16.428	6715936	48.274 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.465	6664102	48.726 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.810	6444018	49.556 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.175	6738227	54.660 ug/ml
20)	T Dibenz[a,h]anthracene...	18.214	6260702	49.513 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.433	6330050	48.488 ug/ml

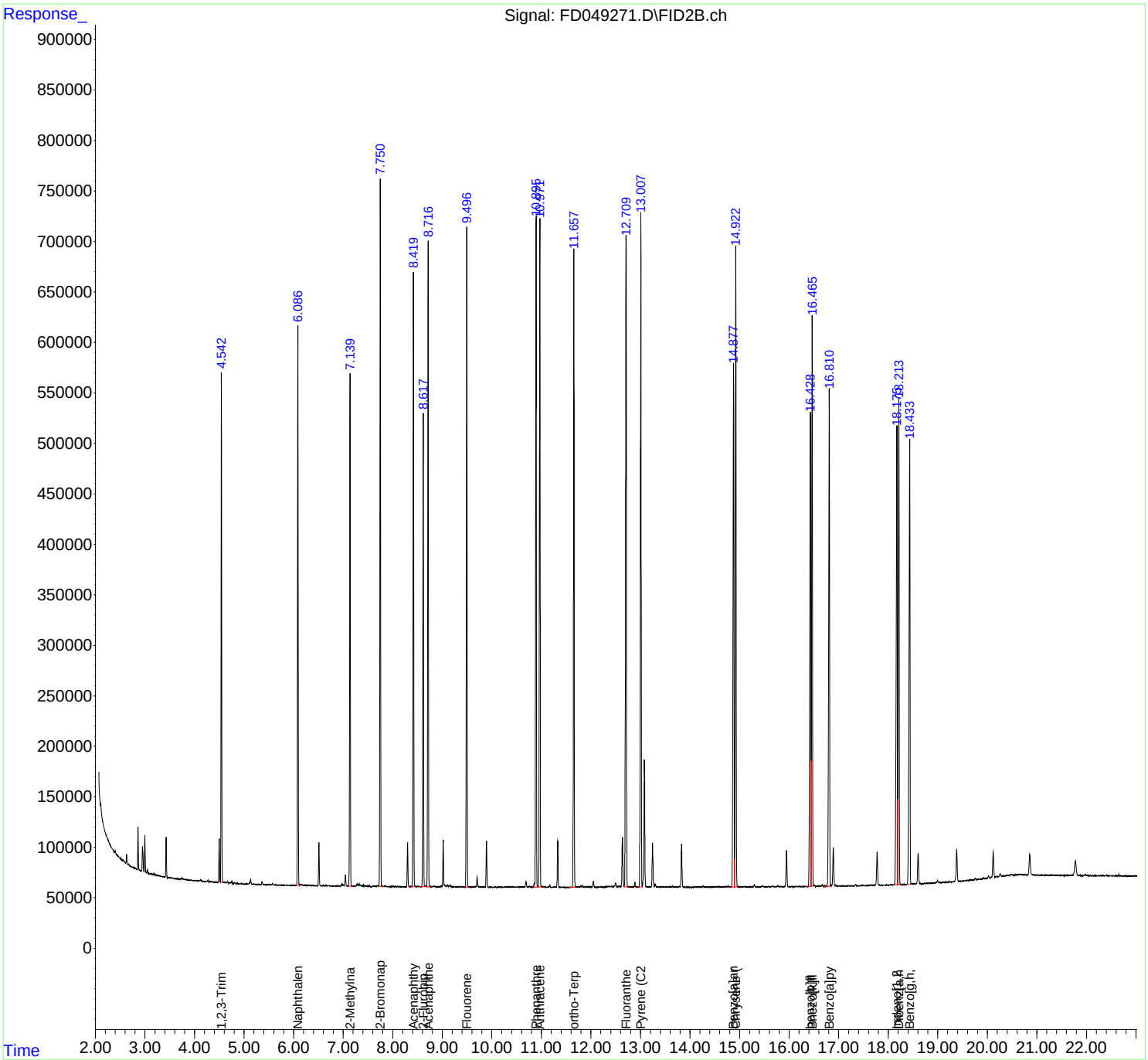
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049271.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:01
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 01:03:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049271.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:01
Sample : PB167513BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.542	4.519	4.590	VB	504901	4288364	57.24%	3.207%
2	6.086	6.037	6.150	BB	555073	5013350	66.91%	3.749%
3	7.140	7.100	7.197	PB	508931	4859873	64.86%	3.634%
4	7.750	7.719	7.815	BB	700818	6686285	89.24%	5.000%
5	8.419	8.359	8.474	BV	607684	5905050	78.81%	4.416%
6	8.617	8.555	8.684	BV	469396	4699720	62.73%	3.514%
7	8.716	8.684	8.775	VB	640256	6283963	83.87%	4.699%
8	9.497	9.424	9.542	BB	655414	6570594	87.70%	4.913%
9	10.895	10.863	10.934	VV	664850	7099181	94.75%	5.309%
10	10.971	10.934	11.024	VV	660930	7063026	94.27%	5.282%
11	11.657	11.559	11.702	BV	629038	6796630	90.71%	5.082%
12	12.709	12.669	12.765	VB	645086	7454671	99.50%	5.574%
13	13.008	12.937	13.034	BV	666253	7492447	100.00%	5.603%
14	14.877	14.800	14.896	BV	519498	6956927	92.85%	5.202%
15	14.922	14.896	14.969	VB	634429	7407680	98.87%	5.539%
16	16.428	16.352	16.444	BV	468371	6715936	89.64%	5.022%
17	16.465	16.444	16.492	VV	566554	6664102	88.94%	4.983%
18	16.810	16.705	16.838	BV	494552	6444018	86.01%	4.819%
19	18.175	18.110	18.189	BV	454792	6738227	89.93%	5.039%
20	18.214	18.189	18.274	VB	482378	6260702	83.56%	4.682%
21	18.433	18.370	18.474	BB	441559	6330050	84.49%	4.733%

Sum of corrected areas: 133730796

Aromatic EPH 040725.M Fri Apr 11 01:35:46 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068562.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:51
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 03:46:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
12) S	1-chlorooctadecane (S...	13.144	3378740	36.372	ug/ml
Spiked Amount	50.000		Recovery =	72.74%	
	Target Compounds				
1) T	n-Nonane (C9)	3.445	2590000	24.591	ug/ml
2) T	n-Decane (C10)	4.520	3152325	29.920	ug/ml
4) T	n-Dodecane (C12)	6.544	3557036	33.824	ug/ml
6) T	n-Tetradecane (C14)	8.342	3996243	38.872	ug/ml
7) T	n-Hexadecane (C16)	9.945	4433156	43.530	ug/ml
8) T	n-Octadecane (C18)	11.388	4682520	46.531	ug/ml
10) T	n-Eicosane (C20)	12.699	4879459	49.608	ug/ml
11) T	n-Heneicosane (C21)	13.311	4681403	48.036	ug/ml
13) T	n-Docosane (C22)	13.898	4675280	48.401	ug/ml
14) T	n-Tetracosane (C24)	15.002	4605982	48.390	ug/ml
15) T	n-Hexacosane (C26)	16.023	4493132	48.104	ug/ml
16) T	n-Octacosane (C28)	16.975	4481288	48.945	ug/ml
17) T	n-Tricontane (C30)	17.864	4533322	49.312	ug/ml
18) T	n-Dotriacontane (C32)	18.698	4498769	49.044	ug/ml
19) T	n-Tetratriacontane (C34)	19.483	4437893	49.675	ug/ml
20) T	n-Hexatriacontane (C36)	20.224	4269087	47.657	ug/ml
21) T	n-Octatriacontane (C38)	20.999	4217418	47.702	ug/ml
22) T	n-Tetracontane (C40)	21.975	4186737	47.412	ug/ml

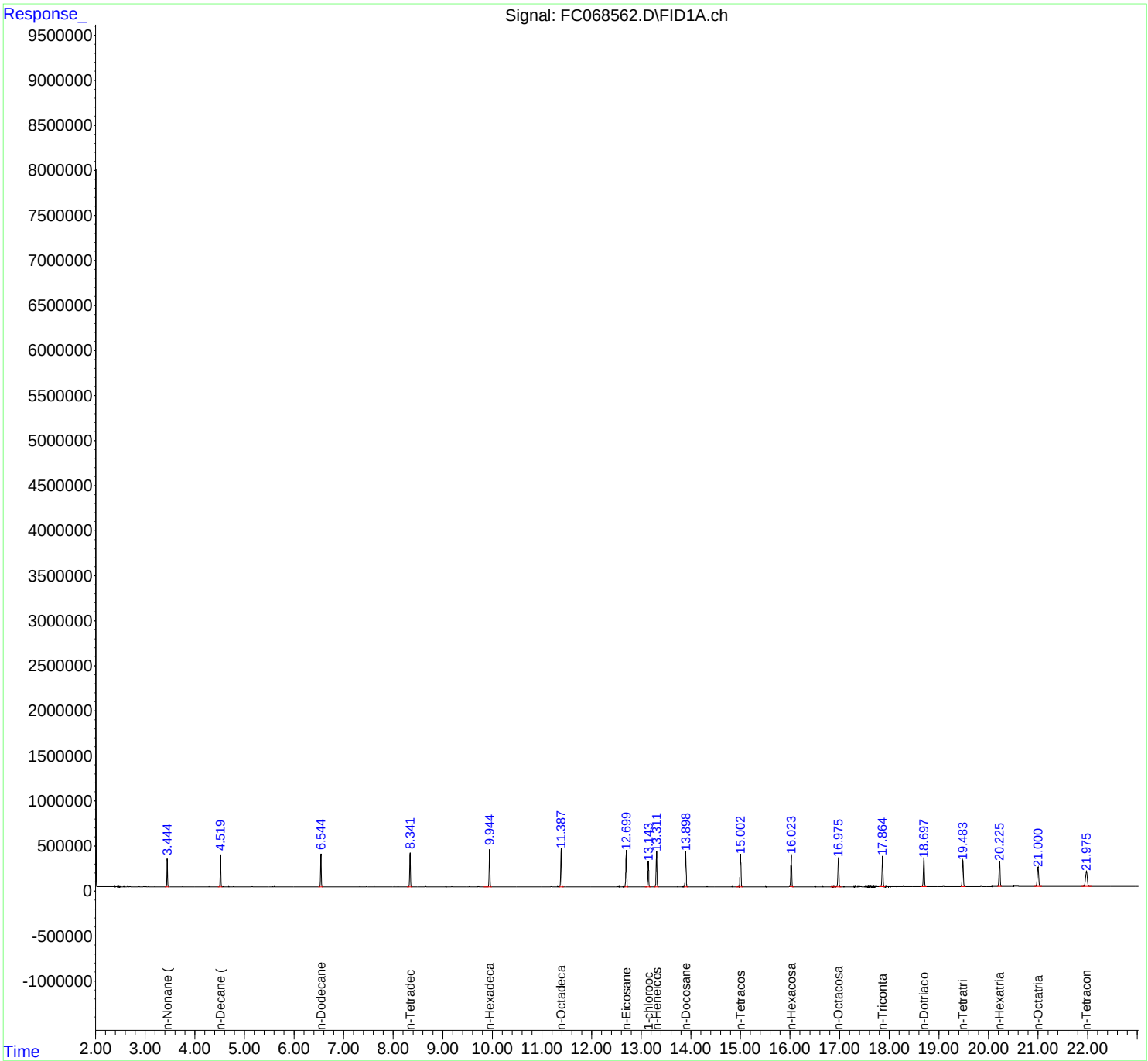
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068562.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:51
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 03:46:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068562.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:51
Sample : PB167513BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.445	3.395	3.488	BB	311051	2590000	53.08%	3.248%
2	4.520	4.465	4.555	BV	360380	3152325	64.60%	3.953%
3	6.544	6.492	6.577	BB	368696	3557036	72.90%	4.460%
4	8.342	8.280	8.387	BB	379510	3996243	81.90%	5.011%
5	9.945	9.823	9.992	BB	417831	4433156	90.85%	5.559%
6	11.388	11.347	11.437	BB	422975	4682520	95.96%	5.872%
7	12.699	12.663	12.738	BB	402700	4879459	100.00%	6.118%
8	13.144	13.075	13.190	BB	289729	3378740	69.24%	4.237%
9	13.311	13.250	13.352	BB	394244	4681403	95.94%	5.870%
10	13.898	13.862	13.942	VB	400411	4675280	95.82%	5.862%
11	15.002	14.913	15.047	BB	365565	4605982	94.40%	5.776%
12	16.023	15.990	16.070	BB	359806	4493132	92.08%	5.634%
13	16.975	16.818	17.033	BB	326442	4481288	91.84%	5.619%
14	17.864	17.795	17.917	BB	341396	4533322	92.91%	5.684%
15	18.698	18.628	18.752	BB	324430	4498769	92.20%	5.641%
16	19.483	19.440	19.540	BB	294081	4437893	90.95%	5.565%
17	20.224	20.180	20.267	BB	284624	4269087	87.49%	5.353%
18	20.999	20.917	21.075	BB	214407	4217418	86.43%	5.288%
19	21.975	21.878	22.075	BB	171086	4186737	85.80%	5.250%
			Sum of corrected areas:			79749786		

Aliphatic EPH 040925.M Fri Apr 11 04:49:07 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049260.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049260.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 17:54
Operator : YP/AJ
Sample : PB167524BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167524BSD

Integration File: autoint1.e
Quant Time: Apr 10 02:09:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.750	6278614	42.385 ug/ml
Spiked Amount	50.000		Recovery =	84.77%
6) S	2-Flurobiphenyl (SURR)	8.617	3962978	38.852 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	77.70%
11) S	ortho-Terphenyl (SURR)	11.659	6801908	38.607 ug/ml
Spiked Amount	50.000		Recovery =	77.21%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.541	3730586	24.896 ug/ml
2) T	Naphthalene (C11.7)	6.086	4507735	27.531 ug/ml
3) T	2-Methylnaphthalene (...	7.140	4494978	27.790 ug/ml
5) T	Acenaphthylene (C15.06)	8.420	5586071	31.624 ug/ml
7) T	Acenaphthene (C15.5)	8.716	5634694	32.706 ug/ml
8) T	Flouorene (C16.55)	9.497	6225395	35.700 ug/ml
9) T	Phenanthrene (C19.36)	10.896	6784589	39.534 ug/ml
10) T	Anthracene (C19.43)	10.971	6545529	41.666 ug/ml
12) T	Fluoranthene (C21.85)	12.710	7113842	42.087 ug/ml
13) T	Pyrene (C20.8)	13.009	6965060	41.529 ug/ml
14) T	Benzo[a]anthracene (C...	14.878	6496629	45.196 ug/ml
15) T	Chrysene (C27.41)	14.923	7056237	48.902 ug/ml
16) T	benzo[b]fluoranthene ...	16.429	6242555	44.871 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.464	6202178	45.349 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.808	5774309	44.406 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.175	6162126	49.986 ug/ml
20) T	Dibenz[a,h]anthracene...	18.214	5768904	45.623 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.433	5849109	44.804 ug/ml

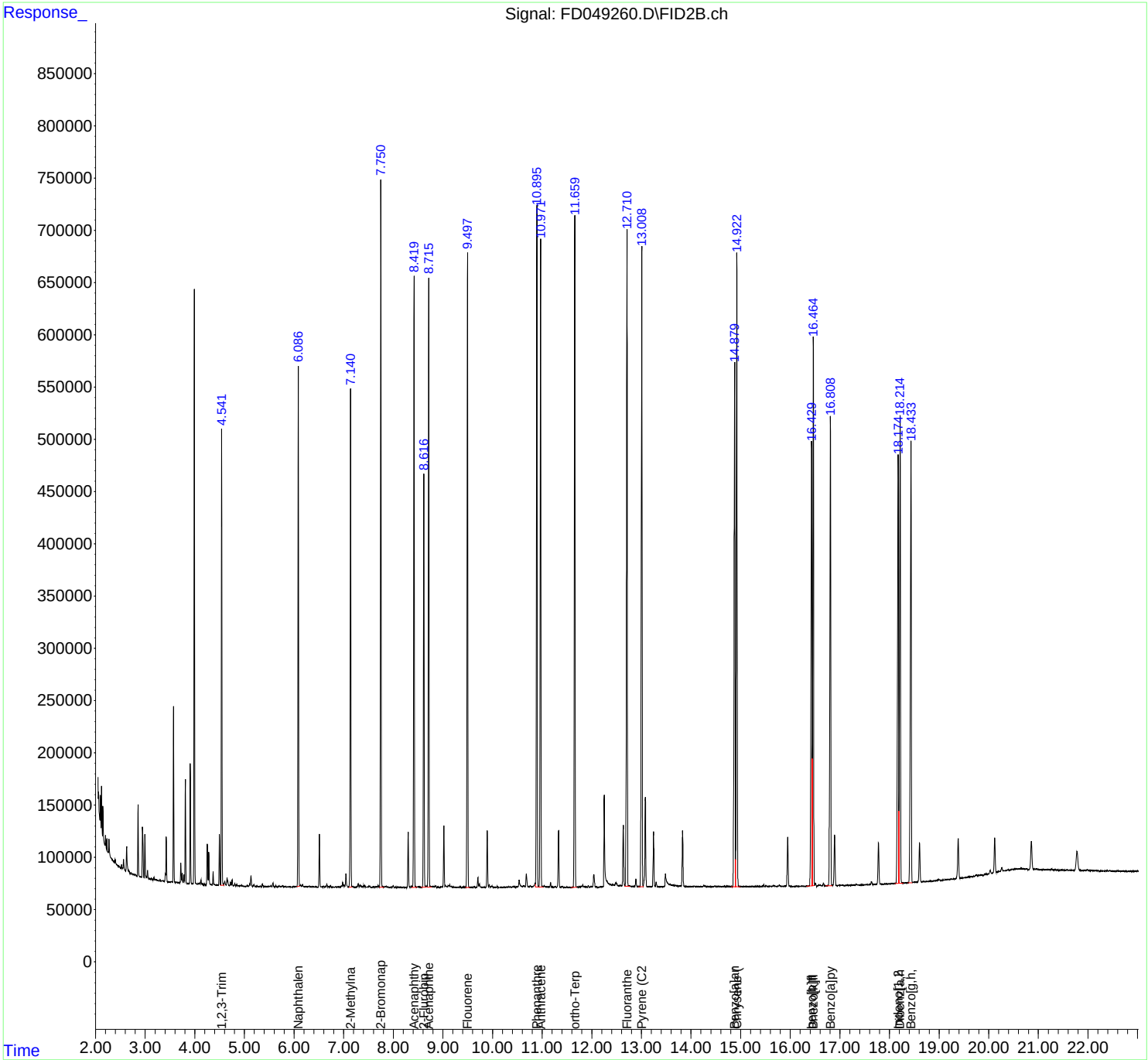
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049260.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 17:54
Operator : YP/AJ
Sample : PB167524BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167524BSD

Integration File: autoint1.e
Quant Time: Apr 10 02:09:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD040925AR\
Data File : FD049260.D
Signal(s) : FID2B.ch
Acq On : 09 Apr 2025 17:54
Sample : PB167524BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.541	4.518	4.584	VV	436234	3730586	52.44%	3.004%
2	6.086	6.054	6.116	BV	498114	4507735	63.37%	3.630%
3	7.140	7.102	7.174	PV	476937	4494978	63.19%	3.620%
4	7.750	7.720	7.812	VB	676136	6278614	88.26%	5.056%
5	8.420	8.384	8.480	VV	584796	5586071	78.52%	4.498%
6	8.617	8.554	8.657	BV	394910	3962978	55.71%	3.191%
7	8.716	8.684	8.774	VV	583291	5634694	79.21%	4.537%
8	9.497	9.450	9.545	BB	606782	6225395	87.51%	5.013%
9	10.896	10.865	10.934	VV	650942	6784589	95.37%	5.463%
10	10.971	10.934	11.019	VV	616636	6545529	92.01%	5.271%
11	11.659	11.585	11.699	BV	643268	6801908	95.62%	5.477%
12	12.710	12.666	12.770	VB	628876	7113842	100.00%	5.728%
13	13.009	12.942	13.035	BV	612402	6965060	97.91%	5.609%
14	14.878	14.812	14.897	BV	501616	6496629	91.32%	5.231%
15	14.923	14.897	14.994	VB	604420	7056237	99.19%	5.682%
16	16.429	16.330	16.444	BV	426530	6242555	87.75%	5.027%
17	16.464	16.444	16.490	VV	526016	6202178	87.18%	4.994%
18	16.808	16.712	16.837	BV	449436	5774309	81.17%	4.650%
19	18.175	18.110	18.190	BV	408839	6162126	86.62%	4.962%
20	18.214	18.190	18.274	VB	446686	5768904	81.09%	4.645%
21	18.433	18.370	18.460	BV	422174	5849109	82.22%	4.710%
			Sum of corrected areas:			124184027		

Aromatic EPH 040725.M Thu Apr 10 02:33:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068538.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 23:27
Operator : YP/AJ
Sample : PB167524BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167524BSD

Integration File: autoint1.e
Quant Time: Apr 10 05:27:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.145	3554387	38.263 ug/ml
Spiked Amount	50.000		Recovery =	76.53%
	Target Compounds			
1) T	n-Nonane (C9)	3.446	2443195	23.197 ug/ml
2) T	n-Decane (C10)	4.521	2979303	28.277 ug/ml
4) T	n-Dodecane (C12)	6.545	3343860	31.797 ug/ml
6) T	n-Tetradecane (C14)	8.343	3552152	34.553 ug/ml
7) T	n-Hexadecane (C16)	9.945	3860611	37.908 ug/ml
8) T	n-Octadecane (C18)	11.388	4037337	40.120 ug/ml
10) T	n-Eicosane (C20)	12.699	4190831	42.607 ug/ml
11) T	n-Heneicosane (C21)	13.311	4031508	41.367 ug/ml
13) T	n-Docosane (C22)	13.898	4007176	41.484 ug/ml
14) T	n-Tetracosane (C24)	15.002	4014807	42.179 ug/ml
15) T	n-Hexacosane (C26)	16.024	3909292	41.853 ug/ml
16) T	n-Octacosane (C28)	16.975	3886881	42.453 ug/ml
17) T	n-Tricontane (C30)	17.865	3943694	42.898 ug/ml
18) T	n-Dotriacontane (C32)	18.699	3926834	42.809 ug/ml
19) T	n-Tetratriacontane (C34)	19.485	3903163	43.689 ug/ml
20) T	n-Hexatriacontane (C36)	20.225	3811183	42.546 ug/ml
21) T	n-Octatriacontane (C38)	21.003	3819912	43.206 ug/ml
22) T	n-Tetracontane (C40)	21.981	3700094	41.901 ug/ml

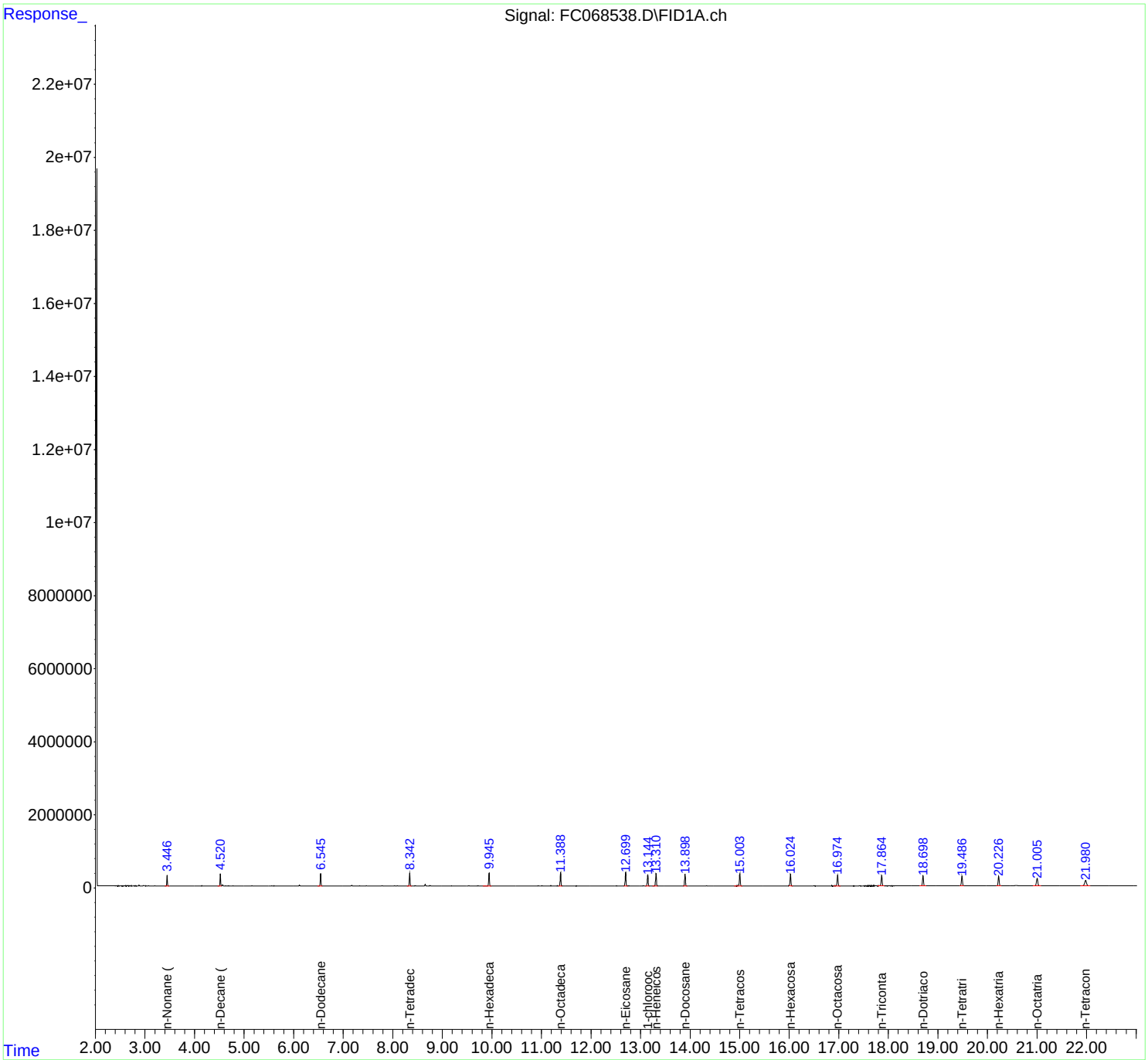
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068538.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 23:27
Operator : YP/AJ
Sample : PB167524BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167524BSD

Integration File: autoint1.e
Quant Time: Apr 10 05:27:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041025AL\
Data File : FC068538.D
Signal(s) : FID1A.ch
Acq On : 09 Apr 2025 23:27
Sample : PB167524BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.446	3.395	3.490	BB	294825	2443195	58.30%	3.445%
2	4.521	4.465	4.547	BV	333770	2979303	71.09%	4.201%
3	6.545	6.482	6.579	BB	345101	3343860	79.79%	4.715%
4	8.343	8.287	8.382	BB	345882	3552152	84.76%	5.009%
5	9.945	9.819	9.994	BB	355524	3860611	92.12%	5.444%
6	11.388	11.344	11.419	BB	365569	4037337	96.34%	5.693%
7	12.699	12.662	12.739	BV	372952	4190831	100.00%	5.910%
8	13.145	13.094	13.180	BB	300609	3554387	84.81%	5.012%
9	13.311	13.240	13.347	BB	338569	4031508	96.20%	5.685%
10	13.898	13.860	13.942	VB	331210	4007176	95.62%	5.651%
11	15.002	14.884	15.054	BB	332387	4014807	95.80%	5.661%
12	16.024	15.990	16.075	BB	319753	3909292	93.28%	5.513%
13	16.975	16.894	17.037	BB	296741	3886881	92.75%	5.481%
14	17.865	17.790	17.917	BB	285014	3943694	94.10%	5.561%
15	18.699	18.625	18.762	BB	282164	3926834	93.70%	5.537%
16	19.485	19.440	19.527	BB	259145	3903163	93.14%	5.504%
17	20.225	20.180	20.280	BB	261179	3811183	90.94%	5.374%
18	21.003	20.917	21.079	BB	202403	3819912	91.15%	5.387%
19	21.981	21.877	22.074	BB	149317	3700094	88.29%	5.218%
			Sum of corrected areas:			70916219		

Aliphatic EPH 040925.M Thu Apr 10 06:04:11 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068567.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 01:55
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 03:48:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.145	3712633	39.966 ug/ml
Spiked Amount	50.000		Recovery =	79.93%
	Target Compounds			
1) T	n-Nonane (C9)	3.445	1597930	15.172 ug/ml
2) T	n-Decane (C10)	4.519	2034608	19.311 ug/ml
4) T	n-Dodecane (C12)	6.544	2670472	25.394 ug/ml
6) T	n-Tetradecane (C14)	8.342	3370380	32.784 ug/ml
7) T	n-Hexadecane (C16)	9.945	3951267	38.798 ug/ml
8) T	n-Octadecane (C18)	11.387	4052107	40.266 ug/ml
10) T	n-Eicosane (C20)	12.698	4152640	42.219 ug/ml
11) T	n-Heneicosane (C21)	13.311	3974185	40.779 ug/ml
13) T	n-Docosane (C22)	13.897	3941290	40.802 ug/ml
14) T	n-Tetracosane (C24)	15.002	4003738	42.063 ug/ml
15) T	n-Hexacosane (C26)	16.025	3808744	40.777 ug/ml
16) T	n-Octacosane (C28)	16.975	3785529	41.346 ug/ml
17) T	n-Tricontane (C30)	17.864	3836308	41.730 ug/ml
18) T	n-Dotriacontane (C32)	18.697	3807746	41.511 ug/ml
19) T	n-Tetratriacontane (C34)	19.482	3799314	42.527 ug/ml
20) T	n-Hexatriacontane (C36)	20.223	3701952	41.326 ug/ml
21) T	n-Octatriacontane (C38)	20.998	3710211	41.965 ug/ml
22) T	n-Tetracontane (C40)	21.974	3584183	40.588 ug/ml

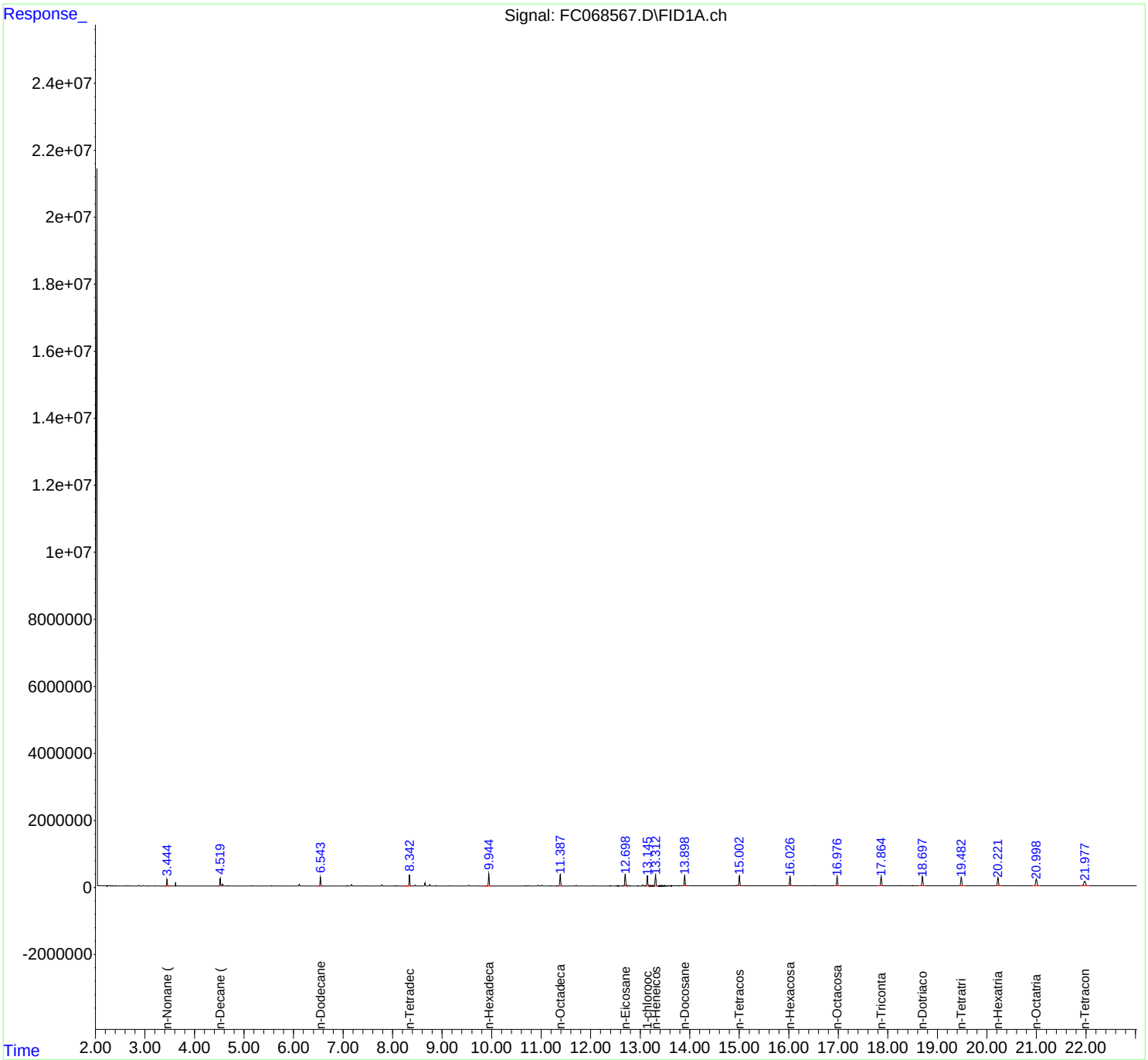
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068567.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 01:55
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 03:48:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068567.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 01:55
Sample : Q1746-01MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.361	2.321	2.398	BV	1365	4748	0.11%	0.006%
2	2.426	2.398	2.474	PV	4816	45725	1.10%	0.059%
3	2.490	2.474	2.509	PV	891	6940	0.17%	0.009%
4	2.519	2.509	2.560	VV	173	1376	0.03%	0.002%
5	2.589	2.560	2.624	VV	1995	17602	0.42%	0.023%
6	2.648	2.624	2.670	PV	6597	50846	1.22%	0.065%
7	2.697	2.670	2.741	VV	6964	63820	1.53%	0.082%
8	2.750	2.741	2.762	VV	167	1337	0.03%	0.002%
9	2.778	2.762	2.803	VV	566	4873	0.12%	0.006%
10	2.814	2.803	2.849	VV	359	3072	0.07%	0.004%
11	2.879	2.849	2.944	PV	20966	161183	3.88%	0.207%
12	2.969	2.944	3.002	VV	11148	135487	3.26%	0.174%
13	3.019	3.002	3.051	VV	789	7354	0.18%	0.009%
14	3.069	3.051	3.097	PV	1338	12015	0.29%	0.015%
15	3.107	3.097	3.132	VV	124	1035	0.02%	0.001%
16	3.147	3.132	3.177	PV	178	2409	0.06%	0.003%
17	3.197	3.177	3.247	VV	1337	12550	0.30%	0.016%
18	3.270	3.247	3.311	VV	183	3395	0.08%	0.004%
19	3.345	3.311	3.385	PV	126	2601	0.06%	0.003%
20	3.394	3.385	3.405	PV	120	928	0.02%	0.001%
21	3.445	3.405	3.518	VV	194805	1602269	38.53%	2.059%
22	3.524	3.518	3.535	VV	92	722	0.02%	0.001%
23	3.577	3.535	3.596	VV	259	4816	0.12%	0.006%
24	3.603	3.596	3.615	VV	148	1203	0.03%	0.002%
25	3.618	3.615	3.635	VV	39712	74567	1.79%	0.096%
26	3.649	3.635	3.683	VV	174	3011	0.07%	0.004%
27	3.724	3.683	3.744	VV	277	5268	0.13%	0.007%
28	3.770	3.744	3.808	VV	330	6923	0.17%	0.009%
29	3.824	3.808	3.855	VV	227	4384	0.11%	0.006%
30	3.861	3.855	3.881	VV	247	2669	0.06%	0.003%
31	3.893	3.881	3.931	VV	242	3646	0.09%	0.005%
32	3.946	3.931	3.981	VV	315	5066	0.12%	0.007%
33	3.991	3.981	4.011	VV	212	2621	0.06%	0.003%
34	4.028	4.011	4.087	VV	311	6598	0.16%	0.008%
35	4.120	4.087	4.132	VV	396	5946	0.14%	0.008%
36	4.148	4.132	4.200	VV	810	10240	0.25%	0.013%

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37	4.214	4.200	4.245	VV	266	3491	0.08%	0.004%
38	4.289	4.245	4.314	PV	653	11882	0.29%	0.015%
39	4.329	4.314	4.408	VV	193	7323	0.18%	0.009%
40	4.442	4.408	4.495	VV	207	7242	0.17%	0.009%
41	4.519	4.495	4.545	VV	226717	2040410	49.07%	2.622%
42	4.565	4.545	4.607	VV	55709	491726	11.83%	0.632%
43	4.627	4.607	4.652	VV	1085	13835	0.33%	0.018%
44	4.675	4.652	4.710	VV	1516	22820	0.55%	0.029%
45	4.747	4.710	4.760	VV	689	9292	0.22%	0.012%
46	4.776	4.760	4.798	VV	1215	12431	0.30%	0.016%
47	4.809	4.798	4.841	VV	218	3426	0.08%	0.004%
48	4.862	4.841	4.877	VV	139	2192	0.05%	0.003%
49	4.900	4.877	4.916	VV	191	2852	0.07%	0.004%
50	4.941	4.916	4.955	VV	238	3299	0.08%	0.004%
51	4.970	4.955	4.991	VV	189	2802	0.07%	0.004%
52	5.000	4.991	5.041	VV	250	3050	0.07%	0.004%
53	5.056	5.041	5.065	VV	140	1158	0.03%	0.001%
54	5.083	5.065	5.105	VV	222	2660	0.06%	0.003%
55	5.131	5.105	5.140	VV	478	4639	0.11%	0.006%
56	5.157	5.140	5.191	VV	2001	22870	0.55%	0.029%
57	5.215	5.191	5.233	VV	385	5029	0.12%	0.006%
58	5.244	5.233	5.254	VV	165	1445	0.03%	0.002%
59	5.264	5.254	5.311	VV	198	2758	0.07%	0.004%
60	5.349	5.311	5.373	VV	188	4199	0.10%	0.005%
61	5.384	5.373	5.418	VV	284	3650	0.09%	0.005%
62	5.460	5.418	5.474	VV	177	3828	0.09%	0.005%
63	5.481	5.474	5.495	VV	103	999	0.02%	0.001%
64	5.560	5.495	5.581	VV	1649	20321	0.49%	0.026%
65	5.602	5.581	5.643	VV	834	11003	0.26%	0.014%
66	5.659	5.643	5.678	VV	206	2456	0.06%	0.003%
67	5.688	5.678	5.704	VV	132	1367	0.03%	0.002%
68	5.751	5.704	5.780	VV	383	7219	0.17%	0.009%
69	5.804	5.780	5.825	VV	162	2790	0.07%	0.004%
70	5.851	5.825	5.885	VV	335	6530	0.16%	0.008%
71	5.910	5.885	5.966	VV	181	5796	0.14%	0.007%
72	5.977	5.966	5.992	VV	197	1646	0.04%	0.002%
73	6.015	5.992	6.037	PV	175	2599	0.06%	0.003%
74	6.064	6.037	6.074	VV	216	2527	0.06%	0.003%
75	6.116	6.074	6.146	VV	51996	481571	11.58%	0.619%
76	6.160	6.146	6.181	VV	369	5186	0.12%	0.007%
77	6.203	6.181	6.238	VV	676	10149	0.24%	0.013%
78	6.264	6.238	6.282	VV	429	6387	0.15%	0.008%
79	6.334	6.282	6.371	VV	263	8912	0.21%	0.011%
80	6.385	6.371	6.405	VV	191	2787	0.07%	0.004%
81	6.431	6.405	6.452	VV	262	4151	0.10%	0.005%
82	6.475	6.452	6.508	VV	191	4649	0.11%	0.006%
83	6.544	6.508	6.603	VV	272886	2675802	64.35%	3.439%
84	6.629	6.603	6.647	VV	289	4204	0.10%	0.005%
85	6.663	6.647	6.675	VV	267	2566	0.06%	0.003%
86	6.693	6.675	6.714	VV	1066	11591	0.28%	0.015%
87	6.729	6.714	6.747	VV	311	4244	0.10%	0.005%
88	6.766	6.747	6.783	VV	341	4443	0.11%	0.006%
89	6.804	6.783	6.850	VV	131	4468	0.11%	0.006%

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90	6.873	6.850	6.920	VV	212	6013	0.14%	0.008%
91	6.942	6.920	6.968	VV	193	3897	0.09%	0.005%
92	6.987	6.968	7.016	VV	312	4510	0.11%	0.006%
93	7.041	7.016	7.061	VV	554	8321	0.20%	0.011%
94	7.081	7.061	7.133	VV	1529	23312	0.56%	0.030%
95	7.173	7.133	7.227	VV	44120	433371	10.42%	0.557%
96	7.248	7.227	7.271	VV	642	8117	0.20%	0.010%
97	7.273	7.271	7.290	VV	209	1212	0.03%	0.002%
98	7.330	7.290	7.354	VV	1063	16535	0.40%	0.021%
99	7.389	7.354	7.417	VV	228	5902	0.14%	0.008%
100	7.438	7.417	7.446	VV	281	3396	0.08%	0.004%
101	7.468	7.446	7.513	VV	2657	29627	0.71%	0.038%
102	7.537	7.513	7.548	VV	236	3528	0.08%	0.005%
103	7.561	7.548	7.581	VV	438	4496	0.11%	0.006%
104	7.597	7.581	7.625	VV	109	1903	0.05%	0.002%
105	7.652	7.625	7.670	VV	202	4056	0.10%	0.005%
106	7.680	7.670	7.713	VV	143	1784	0.04%	0.002%
107	7.731	7.713	7.755	VV	493	5543	0.13%	0.007%
108	7.785	7.755	7.874	VV	34243	332774	8.00%	0.428%
109	7.896	7.874	7.935	VV	360	7831	0.19%	0.010%
110	7.951	7.935	7.973	VV	260	3381	0.08%	0.004%
111	7.991	7.973	8.015	VV	304	3972	0.10%	0.005%
112	8.036	8.015	8.075	VV	1994	24223	0.58%	0.031%
113	8.093	8.075	8.116	VV	1687	18136	0.44%	0.023%
114	8.128	8.116	8.137	VV	222	1777	0.04%	0.002%
115	8.162	8.137	8.180	VV	520	7053	0.17%	0.009%
116	8.196	8.180	8.221	VV	245	4300	0.10%	0.006%
117	8.248	8.221	8.268	VV	691	9865	0.24%	0.013%
118	8.274	8.268	8.287	VV	305	2997	0.07%	0.004%
119	8.342	8.287	8.408	VV	330756	3377738	81.24%	4.341%
120	8.457	8.408	8.515	VV	28561	297777	7.16%	0.383%
121	8.532	8.515	8.557	VV	423	6661	0.16%	0.009%
122	8.572	8.557	8.606	VV	411	5748	0.14%	0.007%
123	8.615	8.606	8.622	VV	86	365	0.01%	0.000%
124	8.655	8.622	8.685	PV	82566	806389	19.39%	1.036%
125	8.693	8.685	8.725	VV	410	7294	0.18%	0.009%
126	8.754	8.725	8.792	VV	43798	439600	10.57%	0.565%
127	8.806	8.792	8.819	VV	409	5553	0.13%	0.007%
128	8.831	8.819	8.853	VV	392	6950	0.17%	0.009%
129	8.878	8.853	8.918	VV	1515	23180	0.56%	0.030%
130	8.939	8.918	8.981	VV	271	5323	0.13%	0.007%
131	8.997	8.981	9.013	VV	270	2674	0.06%	0.003%
132	9.028	9.013	9.041	VV	237	2167	0.05%	0.003%
133	9.063	9.041	9.082	VV	1238	15038	0.36%	0.019%
134	9.102	9.082	9.135	VV	629	12398	0.30%	0.016%
135	9.163	9.135	9.211	VV	2456	46275	1.11%	0.059%
136	9.221	9.211	9.238	VV	284	3233	0.08%	0.004%
137	9.251	9.238	9.288	VV	319	4603	0.11%	0.006%
138	9.304	9.288	9.336	VV	276	3579	0.09%	0.005%
139	9.353	9.336	9.367	VV	124	1701	0.04%	0.002%
140	9.421	9.367	9.434	VV	323	6786	0.16%	0.009%
141	9.465	9.434	9.507	VV	513	10308	0.25%	0.013%

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142	9.537	9.507	9.567	VV	21311	223344	5.37%	0.287%
143	9.582	9.567	9.601	VV	664	9141	0.22%	0.012%
144	9.621	9.601	9.645	VV	384	7055	0.17%	0.009%
145	9.672	9.645	9.701	VV	575	10953	0.26%	0.014%
146	9.723	9.701	9.741	VV	1992	22127	0.53%	0.028%
147	9.753	9.741	9.775	VV	717	7629	0.18%	0.010%
148	9.782	9.775	9.798	VV	187	1554	0.04%	0.002%
149	9.815	9.798	9.843	VV	651	7742	0.19%	0.010%
150	9.865	9.843	9.905	VV	414	9447	0.23%	0.012%
151	9.945	9.905	9.994	VV	366226	3942971	94.83%	5.067%
152	10.027	9.994	10.039	VV	297	5660	0.14%	0.007%
153	10.045	10.039	10.082	VV	250	3714	0.09%	0.005%
154	10.095	10.082	10.108	VV	116	996	0.02%	0.001%
155	10.115	10.108	10.190	VV	130	2178	0.05%	0.003%
156	10.222	10.190	10.236	PV	204	1729	0.04%	0.002%
157	10.265	10.236	10.301	PV	256	5605	0.13%	0.007%
158	10.333	10.301	10.357	VV	1087	16490	0.40%	0.021%
159	10.377	10.357	10.396	VV	378	6128	0.15%	0.008%
160	10.423	10.396	10.457	VV	381	8246	0.20%	0.011%
161	10.477	10.457	10.521	VV	348	6631	0.16%	0.009%
162	10.542	10.521	10.558	VV	225	3762	0.09%	0.005%
163	10.575	10.558	10.598	VV	276	5544	0.13%	0.007%
164	10.614	10.598	10.644	VV	371	7834	0.19%	0.010%
165	10.681	10.644	10.712	VV	2627	36933	0.89%	0.047%
166	10.752	10.712	10.788	VV	2160	51950	1.25%	0.067%
167	10.813	10.788	10.859	VV	572	12353	0.30%	0.016%
168	10.869	10.859	10.914	VV	199	6198	0.15%	0.008%
169	10.940	10.914	10.979	VV	19379	206014	4.95%	0.265%
170	11.014	10.979	11.042	VV	20793	214639	5.16%	0.276%
171	11.055	11.042	11.071	VV	382	5346	0.13%	0.007%
172	11.078	11.071	11.089	VV	359	3612	0.09%	0.005%
173	11.097	11.089	11.121	VV	343	5649	0.14%	0.007%
174	11.136	11.121	11.161	VV	324	4475	0.11%	0.006%
175	11.189	11.161	11.227	VV	1091	13837	0.33%	0.018%
176	11.248	11.227	11.266	VV	66	847	0.02%	0.001%
177	11.316	11.266	11.346	PV	973	13939	0.34%	0.018%
178	11.387	11.346	11.448	VV	357492	4058010	97.60%	5.215%
179	11.478	11.448	11.524	VV	883	14237	0.34%	0.018%
180	11.542	11.524	11.559	PV	197	1907	0.05%	0.002%
181	11.576	11.559	11.588	VV	102	907	0.02%	0.001%
182	11.595	11.588	11.603	VV	59	508	0.01%	0.001%
183	11.709	11.603	11.735	VV	12394	140366	3.38%	0.180%
184	11.743	11.735	11.759	VV	415	3939	0.09%	0.005%
185	11.780	11.759	11.806	VV	606	9107	0.22%	0.012%
186	11.839	11.806	11.858	VV	401	8846	0.21%	0.011%
187	11.869	11.858	11.885	VV	389	4610	0.11%	0.006%
188	11.898	11.885	11.918	VV	285	3656	0.09%	0.005%
189	11.935	11.918	11.958	VV	188	4093	0.10%	0.005%
190	11.960	11.958	11.969	VV	230	958	0.02%	0.001%
191	12.054	11.969	12.088	VV	3079	51211	1.23%	0.066%
192	12.104	12.088	12.127	VV	350	5947	0.14%	0.008%
193	12.150	12.127	12.171	VV	563	8629	0.21%	0.011%
194	12.214	12.171	12.238	VV	276	8029	0.19%	0.010%

rteres

195	12.277	12.238	12.305	VV	574	12031	0.29%	0.015%
196	12.346	12.305	12.375	VV	558	15509	0.37%	0.020%
197	12.392	12.375	12.407	VV	758	9641	0.23%	0.012%
198	12.419	12.407	12.455	VV	423	9918	0.24%	0.013%
199	12.467	12.455	12.479	VV	524	6073	0.15%	0.008%
200	12.521	12.479	12.548	VV	1320	31527	0.76%	0.041%
201	12.558	12.548	12.599	VV	831	12289	0.30%	0.016%
202	12.637	12.599	12.660	VV	865	15501	0.37%	0.020%
203	12.698	12.660	12.733	VV	353622	4157981	100.00%	5.343%
204	12.759	12.733	12.808	VV	14344	170674	4.10%	0.219%
205	12.818	12.808	12.836	VV	306	3960	0.10%	0.005%
206	12.843	12.836	12.890	VV	173	3461	0.08%	0.004%
207	12.949	12.890	13.009	VV	635	16474	0.40%	0.021%
208	13.019	13.009	13.030	VV	220	2268	0.05%	0.003%
209	13.059	13.030	13.086	VV	18174	202416	4.87%	0.260%
210	13.145	13.086	13.180	VV	313804	3730316	89.71%	4.794%
211	13.194	13.180	13.221	VV	479	8887	0.21%	0.011%
212	13.228	13.221	13.234	VV	378	2329	0.06%	0.003%
213	13.245	13.234	13.268	VV	392	6744	0.16%	0.009%
214	13.311	13.268	13.347	VV	333983	3989556	95.95%	5.127%
215	13.363	13.347	13.376	VV	554	7792	0.19%	0.010%
216	13.380	13.376	13.438	VV	426	11790	0.28%	0.015%
217	13.448	13.438	13.456	VV	292	2508	0.06%	0.003%
218	13.481	13.456	13.505	VV	363	7315	0.18%	0.009%
219	13.543	13.505	13.558	VV	483	12082	0.29%	0.016%
220	13.579	13.558	13.627	VV	469	14492	0.35%	0.019%
221	13.654	13.627	13.670	VV	542	10053	0.24%	0.013%
222	13.688	13.670	13.715	VV	798	13845	0.33%	0.018%
223	13.738	13.715	13.778	VV	1130	23216	0.56%	0.030%
224	13.810	13.778	13.825	VV	402	9671	0.23%	0.012%
225	13.843	13.825	13.860	VV	885	13480	0.32%	0.017%
226	13.897	13.860	13.941	VV	324231	3955508	95.13%	5.083%
227	13.955	13.941	13.976	VV	529	8733	0.21%	0.011%
228	13.987	13.976	14.008	VV	379	5367	0.13%	0.007%
229	14.033	14.008	14.086	VV	318	11109	0.27%	0.014%
230	14.123	14.086	14.168	VV	619	19802	0.48%	0.025%
231	14.191	14.168	14.242	VV	354	13684	0.33%	0.018%
232	14.258	14.242	14.275	VV	345	5873	0.14%	0.008%
233	14.331	14.275	14.358	VV	1410	31156	0.75%	0.040%
234	14.369	14.358	14.385	VV	430	5763	0.14%	0.007%
235	14.392	14.385	14.408	VV	360	4734	0.11%	0.006%
236	14.416	14.408	14.432	VV	496	5706	0.14%	0.007%
237	14.458	14.432	14.482	VV	1666	24080	0.58%	0.031%
238	14.530	14.482	14.548	VV	413	11491	0.28%	0.015%
239	14.560	14.548	14.578	VV	433	6165	0.15%	0.008%
240	14.582	14.578	14.608	VV	401	5621	0.14%	0.007%
241	14.624	14.608	14.641	VV	318	4898	0.12%	0.006%
242	14.659	14.641	14.703	VV	418	11154	0.27%	0.014%
243	14.725	14.703	14.798	VV	476	17902	0.43%	0.023%
244	14.854	14.798	14.878	VV	490	16702	0.40%	0.021%
245	14.936	14.878	14.957	VV	9767	119333	2.87%	0.153%
246	15.002	14.957	15.125	VV	316467	4025807	96.82%	5.173%

rteres

247	15.144	15.125	15.157	VV	151	2502	0.06%	0.003%
248	15.198	15.157	15.213	VV	331	6759	0.16%	0.009%
249	15.246	15.213	15.262	VV	303	7014	0.17%	0.009%
250	15.270	15.262	15.298	VV	263	3264	0.08%	0.004%
251	15.334	15.298	15.360	VV	399	8884	0.21%	0.011%
252	15.386	15.360	15.408	VV	319	5816	0.14%	0.007%
253	15.426	15.408	15.445	VV	286	4970	0.12%	0.006%
254	15.450	15.445	15.468	VV	259	2628	0.06%	0.003%
255	15.481	15.468	15.498	VV	207	2867	0.07%	0.004%
256	15.519	15.498	15.575	VV	2053	31726	0.76%	0.041%
257	15.577	15.575	15.590	VV	251	1545	0.04%	0.002%
258	15.608	15.590	15.655	VV	245	4986	0.12%	0.006%
259	15.670	15.655	15.682	VV	249	2658	0.06%	0.003%
260	15.701	15.682	15.738	VV	335	6693	0.16%	0.009%
261	15.750	15.738	15.778	VV	283	5388	0.13%	0.007%
262	15.789	15.778	15.811	VV	257	3935	0.09%	0.005%
263	15.854	15.811	15.898	VV	370	11703	0.28%	0.015%
264	15.911	15.898	15.928	VV	231	3076	0.07%	0.004%
265	15.948	15.928	15.958	VV	210	2593	0.06%	0.003%
266	16.024	15.958	16.098	VV	288666	3847135	92.52%	4.944%
267	16.120	16.098	16.135	VV	193	1870	0.04%	0.002%
268	16.145	16.135	16.165	PV	91	788	0.02%	0.001%
269	16.189	16.165	16.209	VV	333	5931	0.14%	0.008%
270	16.243	16.209	16.288	VV	372	9776	0.24%	0.013%
271	16.313	16.288	16.321	VV	282	3918	0.09%	0.005%
272	16.336	16.321	16.360	VV	349	5431	0.13%	0.007%
273	16.395	16.360	16.437	VV	356	9894	0.24%	0.013%
274	16.493	16.437	16.508	VV	8157	112602	2.71%	0.145%
275	16.523	16.508	16.561	VV	7511	101820	2.45%	0.131%
276	16.576	16.561	16.614	VV	310	7716	0.19%	0.010%
277	16.667	16.614	16.715	VV	532	23143	0.56%	0.030%
278	16.750	16.715	16.767	VV	457	10901	0.26%	0.014%
279	16.783	16.767	16.798	VV	402	6350	0.15%	0.008%
280	16.812	16.798	16.833	VV	478	8437	0.20%	0.011%
281	16.873	16.833	16.907	VV	7177	101829	2.45%	0.131%
282	16.975	16.907	17.035	VV	282540	3806798	91.55%	4.892%
283	17.052	17.035	17.082	VV	440	10887	0.26%	0.014%
284	17.119	17.082	17.153	VV	520	17469	0.42%	0.022%
285	17.230	17.153	17.271	VV	608	31759	0.76%	0.041%
286	17.298	17.271	17.347	VV	822	21683	0.52%	0.028%
287	17.422	17.347	17.461	VV	2866	61191	1.47%	0.079%
288	17.467	17.461	17.488	VV	467	5620	0.14%	0.007%
289	17.554	17.488	17.582	VV	790	24312	0.58%	0.031%
290	17.603	17.582	17.618	VV	342	6213	0.15%	0.008%
291	17.629	17.618	17.634	VV	358	2581	0.06%	0.003%
292	17.647	17.634	17.678	VV	457	8417	0.20%	0.011%
293	17.685	17.678	17.698	VV	273	2771	0.07%	0.004%
294	17.752	17.698	17.797	VV	3316	64106	1.54%	0.082%
295	17.864	17.797	17.902	VV	287729	3852341	92.65%	4.951%
296	17.915	17.902	17.935	VV	413	5821	0.14%	0.007%
297	17.952	17.935	17.975	VV	323	6731	0.16%	0.009%
298	18.022	17.975	18.096	VV	1431	43473	1.05%	0.056%
299	18.129	18.096	18.161	VV	303	8754	0.21%	0.011%

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300	18.242	18.161	18.261	VV	5814	84228	2.03%	0.108%
301	18.284	18.261	18.330	VV	9504	125960	3.03%	0.162%
302	18.388	18.330	18.448	PV	1170	28992	0.70%	0.037%
303	18.497	18.448	18.530	VV	5384	71081	1.71%	0.091%
304	18.549	18.530	18.571	VV	358	6297	0.15%	0.008%
305	18.591	18.571	18.606	VV	300	4428	0.11%	0.006%
306	18.615	18.606	18.626	VV	168	1207	0.03%	0.002%
307	18.697	18.626	18.778	PV	269072	3814394	91.74%	4.902%
308	18.814	18.778	18.838	VV	791	14442	0.35%	0.019%
309	18.863	18.838	18.905	VV	664	14384	0.35%	0.018%
310	18.919	18.905	18.935	VV	261	3802	0.09%	0.005%
311	18.949	18.935	18.968	VV	320	5036	0.12%	0.006%
312	18.985	18.968	19.021	VV	291	7565	0.18%	0.010%
313	19.093	19.021	19.121	VV	4723	77663	1.87%	0.100%
314	19.142	19.121	19.183	VV	535	12648	0.30%	0.016%
315	19.210	19.183	19.242	VV	530	12974	0.31%	0.017%
316	19.276	19.242	19.309	VV	509	14496	0.35%	0.019%
317	19.345	19.309	19.368	VV	550	14853	0.36%	0.019%
318	19.482	19.368	19.570	VV	252656	3859492	92.82%	4.960%
319	19.633	19.570	19.652	VV	919	34616	0.83%	0.044%
320	19.726	19.652	19.741	VV	923	41627	1.00%	0.053%
321	19.788	19.741	19.808	VV	981	35408	0.85%	0.046%
322	19.853	19.808	19.891	VV	2328	66566	1.60%	0.086%
323	20.032	19.891	20.055	VV	1446	119037	2.86%	0.153%
324	20.126	20.055	20.158	VV	2072	100114	2.41%	0.129%
325	20.223	20.158	20.285	VV	250821	3837761	92.30%	4.932%
326	20.306	20.285	20.327	VV	2034	48012	1.15%	0.062%
327	20.361	20.327	20.372	VV	2083	53855	1.30%	0.069%
328	20.389	20.372	20.414	VV	2149	50511	1.21%	0.065%
329	20.444	20.414	20.461	VV	2032	56726	1.36%	0.073%
330	20.500	20.461	20.518	VV	2049	66708	1.60%	0.086%
331	20.585	20.518	20.630	VV	2925	142540	3.43%	0.183%
332	20.735	20.630	20.757	VV	2089	144113	3.47%	0.185%
333	20.784	20.757	20.871	VV	2011	121783	2.93%	0.156%
334	20.880	20.871	20.922	VV	1611	47309	1.14%	0.061%
335	20.998	20.922	21.088	VV	204860	3850908	92.61%	4.949%
336	21.097	21.088	21.138	VV	1433	40839	0.98%	0.052%
337	21.147	21.138	21.188	VV	1291	37977	0.91%	0.049%
338	21.196	21.188	21.201	VV	1264	9792	0.24%	0.013%
339	21.209	21.201	21.231	VV	1204	21275	0.51%	0.027%
340	21.243	21.231	21.301	VV	1213	47326	1.14%	0.061%
341	21.340	21.301	21.401	VV	1137	59782	1.44%	0.077%
342	21.448	21.401	21.490	VV	1523	59316	1.43%	0.076%
343	21.502	21.490	21.541	VV	844	23494	0.57%	0.030%
344	21.549	21.541	21.558	VV	823	7633	0.18%	0.010%
345	21.597	21.558	21.627	VV	811	31046	0.75%	0.040%
346	21.639	21.627	21.678	VV	747	22424	0.54%	0.029%
347	21.689	21.678	21.726	VV	757	19679	0.47%	0.025%
348	21.741	21.726	21.778	VV	659	17107	0.41%	0.022%
349	21.815	21.778	21.824	VV	492	13142	0.32%	0.017%
350	21.832	21.824	21.895	VV	494	18319	0.44%	0.024%
351	21.975	21.895	22.103	VV	141554	3619007	87.04%	4.651%

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352	22.131	22.103	22.142	VV	258	5066	0.12%	0.007%
353	22.152	22.142	22.165	VV	197	2510	0.06%	0.003%
354	22.179	22.165	22.218	VV	172	4378	0.11%	0.006%
355	22.236	22.218	22.272	VV	162	4103	0.10%	0.005%
356	22.281	22.272	22.302	VV	125	1522	0.04%	0.002%
357	22.323	22.302	22.331	VV	109	1280	0.03%	0.002%

Sum of corrected areas: 77816733

Aliphatic EPH 040925.M Fri Apr 11 04:58:41 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049276.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:07
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 01:05:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.750	5519783	37.262 ug/ml
	Spiked Amount 50.000		Recovery =	74.52%
6)	S 2-Flurobiphenyl (SURR)	8.615	3189374	31.268 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	62.54%
11)	S ortho-Terphenyl (SURR)	11.658	5506873	31.256 ug/ml
	Spiked Amount 50.000		Recovery =	62.51%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.541	2233228	14.903 ug/ml
2)	T Naphthalene (C11.7)	6.086	3179791	19.420 ug/ml
3)	T 2-Methylnaphthalene (...	7.139	3544934	21.916 ug/ml
5)	T Acenaphthylene (C15.06)	8.419	5104656	28.899 ug/ml
7)	T Acenaphthene (C15.5)	8.715	5084253	29.511 ug/ml
8)	T Flouorene (C16.55)	9.496	5959872	34.177 ug/ml
9)	T Phenanthrene (C19.36)	10.895	6459746	37.641 ug/ml
10)	T Anthracene (C19.43)	10.970	6192020	39.415 ug/ml
12)	T Fluoranthene (C21.85)	12.709	6940271	41.060 ug/ml
13)	T Pyrene (C20.8)	13.008	6682851	39.846 ug/ml
14)	T Benzo[a]anthracene (C...	14.877	6258466	43.539 ug/ml
15)	T Chrysene (C27.41)	14.922	6789279	47.052 ug/ml
16)	T benzo[b]fluoranthene ...	16.428	6006098	43.171 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.463	5846624	42.749 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.809	5592066	43.004 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.174	5965719	48.393 ug/ml
20)	T Dibenz[a,h]anthracene...	18.213	5470332	43.262 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.432	5548772	42.503 ug/ml

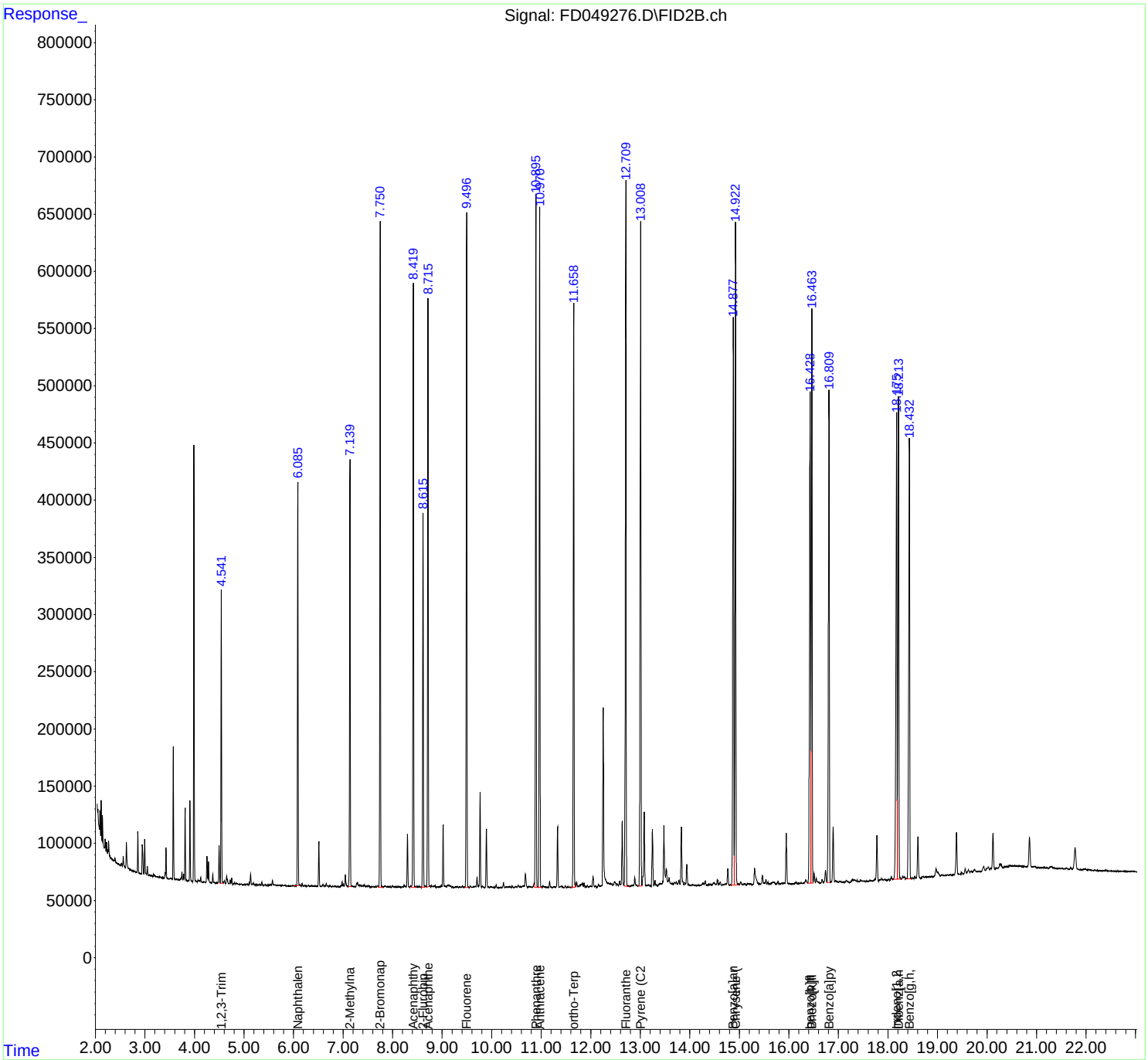
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049276.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:07
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 01:05:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049276.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:07
Sample : Q1746-01MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.073	4.042	4.086	BV	1590	12825	0.18%	0.009%
2	4.098	4.086	4.111	VV	1333	13210	0.19%	0.009%
3	4.126	4.111	4.175	VV	3992	37866	0.54%	0.026%
4	4.190	4.175	4.217	PV	494	6815	0.10%	0.005%
5	4.253	4.227	4.269	VV	23066	252123	3.61%	0.174%
6	4.283	4.269	4.319	VV	18477	175339	2.51%	0.121%
7	4.321	4.319	4.332	VV	357	1311	0.02%	0.001%
8	4.369	4.342	4.408	VV	7575	68736	0.98%	0.047%
9	4.413	4.408	4.424	VV	191	1010	0.01%	0.001%
10	4.432	4.424	4.440	PV	238	1207	0.02%	0.001%
11	4.455	4.440	4.472	VV	487	5280	0.08%	0.004%
12	4.497	4.472	4.518	VV	32928	295672	4.24%	0.203%
13	4.541	4.518	4.580	VV	257174	2239790	32.09%	1.541%
14	4.604	4.580	4.627	VV	2193	35335	0.51%	0.024%
15	4.648	4.627	4.660	VV	6863	69796	1.00%	0.048%
16	4.665	4.660	4.694	VV	3915	34940	0.50%	0.024%
17	4.722	4.694	4.736	VV	3334	34563	0.50%	0.024%
18	4.752	4.736	4.779	VV	5404	49716	0.71%	0.034%
19	4.788	4.779	4.791	PV	268	1044	0.01%	0.001%
20	4.804	4.791	4.820	VV	1686	14665	0.21%	0.010%
21	4.840	4.820	4.866	VV	1674	21049	0.30%	0.014%
22	4.871	4.866	4.880	VV	601	4401	0.06%	0.003%
23	4.885	4.880	4.908	VV	535	5399	0.08%	0.004%
24	4.915	4.908	4.925	VV	401	2700	0.04%	0.002%
25	4.944	4.925	4.993	VV	751	11609	0.17%	0.008%
26	5.006	4.993	5.019	PV	303	2866	0.04%	0.002%
27	5.023	5.019	5.035	VV	239	1579	0.02%	0.001%
28	5.058	5.035	5.084	VV	782	12919	0.19%	0.009%
29	5.106	5.084	5.116	VV	2493	26349	0.38%	0.018%
30	5.133	5.116	5.165	VV	9664	108627	1.56%	0.075%
31	5.190	5.165	5.208	VV	1896	24906	0.36%	0.017%
32	5.213	5.208	5.224	VV	302	1973	0.03%	0.001%
33	5.255	5.224	5.272	VV	613	9934	0.14%	0.007%
34	5.307	5.272	5.313	VV	652	8838	0.13%	0.006%
35	5.324	5.313	5.344	VV	799	10291	0.15%	0.007%
36	5.359	5.344	5.399	VV	2808	32985	0.47%	0.023%

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37	5.419	5.399	5.431	VV	499	5964	0.09%	0.004%
38	5.436	5.431	5.473	VV	353	4674	0.07%	0.003%
39	5.499	5.473	5.512	PV	652	6995	0.10%	0.005%
40	5.534	5.512	5.552	VV	1307	14227	0.20%	0.010%
41	5.575	5.552	5.618	VV	4693	63595	0.91%	0.044%
42	5.632	5.618	5.667	VV	1098	16294	0.23%	0.011%
43	5.699	5.667	5.748	VV	813	21588	0.31%	0.015%
44	5.774	5.748	5.795	VV	636	9634	0.14%	0.007%
45	5.801	5.795	5.804	VV	226	1019	0.01%	0.001%
46	5.820	5.804	5.840	VV	559	7721	0.11%	0.005%
47	5.846	5.840	5.849	VV	296	1098	0.02%	0.001%
48	5.855	5.849	5.865	VV	334	2305	0.03%	0.002%
49	5.870	5.865	5.904	VV	323	3961	0.06%	0.003%
50	5.910	5.904	5.930	VV	288	1712	0.02%	0.001%
51	5.939	5.930	5.956	PV	364	3591	0.05%	0.002%
52	5.962	5.956	5.975	VV	268	2329	0.03%	0.002%
53	5.984	5.975	5.988	VV	392	2369	0.03%	0.002%
54	5.994	5.988	6.015	VV	573	4704	0.07%	0.003%
55	6.021	6.015	6.045	VV	445	6303	0.09%	0.004%
56	6.086	6.045	6.117	VV	353130	3205088	45.92%	2.206%
57	6.131	6.117	6.155	VV	1428	19849	0.28%	0.014%
58	6.173	6.155	6.212	VV	2286	30638	0.44%	0.021%
59	6.231	6.212	6.273	VV	740	15924	0.23%	0.011%
60	6.304	6.273	6.343	VV	903	18215	0.26%	0.013%
61	6.347	6.343	6.350	VV	320	1197	0.02%	0.001%
62	6.364	6.350	6.386	VV	838	11857	0.17%	0.008%
63	6.390	6.386	6.412	VV	429	5425	0.08%	0.004%
64	6.416	6.412	6.422	VV	350	1588	0.02%	0.001%
65	6.426	6.422	6.432	VV	315	1380	0.02%	0.001%
66	6.438	6.432	6.445	VV	346	1785	0.03%	0.001%
67	6.461	6.445	6.487	VV	321	5365	0.08%	0.004%
68	6.512	6.487	6.560	VV	39583	387583	5.55%	0.267%
69	6.562	6.560	6.567	VV	508	1531	0.02%	0.001%
70	6.595	6.567	6.616	VV	1887	26731	0.38%	0.018%
71	6.633	6.616	6.647	VV	1135	12169	0.17%	0.008%
72	6.661	6.647	6.681	VV	3050	33834	0.48%	0.023%
73	6.692	6.681	6.716	VV	922	11412	0.16%	0.008%
74	6.733	6.716	6.753	VV	1503	17535	0.25%	0.012%
75	6.766	6.753	6.775	VV	518	4390	0.06%	0.003%
76	6.790	6.775	6.816	VV	583	8069	0.12%	0.006%
77	6.838	6.816	6.852	VV	600	7828	0.11%	0.005%
78	6.887	6.852	6.901	VV	415	8580	0.12%	0.006%
79	6.908	6.901	6.927	VV	398	2725	0.04%	0.002%
80	6.954	6.927	6.967	PV	1169	15023	0.22%	0.010%
81	6.981	6.967	6.994	VV	4534	42925	0.61%	0.030%
82	7.006	6.994	7.028	VV	2103	31674	0.45%	0.022%
83	7.047	7.028	7.102	VV	10905	138968	1.99%	0.096%
84	7.139	7.102	7.174	VV	373824	3566626	51.10%	2.455%
85	7.185	7.174	7.210	VV	962	15265	0.22%	0.011%
86	7.224	7.210	7.233	VV	656	7212	0.10%	0.005%
87	7.241	7.233	7.258	VV	719	7897	0.11%	0.005%
88	7.277	7.258	7.283	VV	3227	30760	0.44%	0.021%
89	7.294	7.283	7.313	VV	4004	47824	0.69%	0.033%

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90	7.329	7.313	7.342	VV	2206	27684	0.40%	0.019%
91	7.355	7.342	7.385	VV	1768	30586	0.44%	0.021%
92	7.403	7.385	7.416	VV	1839	21622	0.31%	0.015%
93	7.430	7.416	7.454	VV	2104	26840	0.38%	0.018%
94	7.478	7.454	7.486	VV	923	13083	0.19%	0.009%
95	7.498	7.486	7.508	VV	1130	12788	0.18%	0.009%
96	7.525	7.508	7.545	VV	1520	20523	0.29%	0.014%
97	7.550	7.545	7.566	VV	330	2861	0.04%	0.002%
98	7.573	7.566	7.583	VV	334	2712	0.04%	0.002%
99	7.589	7.583	7.598	VV	473	3009	0.04%	0.002%
100	7.607	7.598	7.627	VV	620	7106	0.10%	0.005%
101	7.634	7.627	7.639	VV	369	1829	0.03%	0.001%
102	7.648	7.639	7.653	VV	554	3387	0.05%	0.002%
103	7.660	7.653	7.678	VV	765	7078	0.10%	0.005%
104	7.694	7.678	7.713	VV	1607	19387	0.28%	0.013%
105	7.750	7.713	7.795	VV	582343	5522516	79.12%	3.801%
106	7.798	7.795	7.814	VV	439	3275	0.05%	0.002%
107	7.839	7.814	7.850	VV	1026	14467	0.21%	0.010%
108	7.859	7.850	7.878	VV	1073	12191	0.17%	0.008%
109	7.889	7.878	7.904	VV	541	6209	0.09%	0.004%
110	7.922	7.904	7.935	VV	434	5543	0.08%	0.004%
111	7.956	7.935	7.980	VV	695	8797	0.13%	0.006%
112	7.998	7.980	8.020	VV	1438	16945	0.24%	0.012%
113	8.024	8.020	8.039	VV	528	3926	0.06%	0.003%
114	8.055	8.039	8.072	VV	654	6657	0.10%	0.005%
115	8.090	8.072	8.100	VV	553	6456	0.09%	0.004%
116	8.111	8.100	8.120	VV	560	5383	0.08%	0.004%
117	8.127	8.120	8.160	VV	679	6990	0.10%	0.005%
118	8.209	8.160	8.218	VV	825	12473	0.18%	0.009%
119	8.233	8.218	8.246	VV	1728	18300	0.26%	0.013%
120	8.260	8.246	8.276	VV	1301	15762	0.23%	0.011%
121	8.301	8.276	8.328	VV	46557	480432	6.88%	0.331%
122	8.333	8.328	8.348	VV	567	4502	0.06%	0.003%
123	8.365	8.348	8.380	VV	1542	17224	0.25%	0.012%
124	8.419	8.380	8.479	VV	526435	5117568	73.32%	3.522%
125	8.493	8.479	8.498	VV	799	6861	0.10%	0.005%
126	8.506	8.498	8.522	VV	887	8811	0.13%	0.006%
127	8.534	8.522	8.551	VV	764	9141	0.13%	0.006%
128	8.557	8.551	8.573	VV	279	2537	0.04%	0.002%
129	8.615	8.573	8.642	VV	326991	3198495	45.82%	2.201%
130	8.668	8.642	8.684	VV	1332	22695	0.33%	0.016%
131	8.715	8.684	8.747	VV	514972	5110864	73.22%	3.517%
132	8.758	8.747	8.775	VV	1379	19606	0.28%	0.013%
133	8.789	8.775	8.803	VV	1424	18980	0.27%	0.013%
134	8.809	8.803	8.823	VV	1161	11265	0.16%	0.008%
135	8.838	8.823	8.847	VV	1373	15610	0.22%	0.011%
136	8.860	8.847	8.880	VV	1523	18625	0.27%	0.013%
137	8.903	8.880	8.918	VV	778	9934	0.14%	0.007%
138	8.926	8.918	8.938	VV	590	5187	0.07%	0.004%
139	8.952	8.938	8.968	VV	989	11132	0.16%	0.008%
140	8.981	8.968	8.997	VV	2099	22028	0.32%	0.015%
141	9.021	8.997	9.046	VV	54824	549418	7.87%	0.378%

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142	9.054	9.046	9.089	VV	1434	24974	0.36%	0.017%
143	9.107	9.089	9.112	VV	2047	18983	0.27%	0.013%
144	9.115	9.112	9.127	VV	2051	15761	0.23%	0.011%
145	9.138	9.127	9.167	VV	2429	39988	0.57%	0.028%
146	9.174	9.167	9.194	VV	1521	15561	0.22%	0.011%
147	9.207	9.194	9.229	VV	707	8848	0.13%	0.006%
148	9.271	9.229	9.289	PV	830	12613	0.18%	0.009%
149	9.305	9.289	9.329	VV	1124	13388	0.19%	0.009%
150	9.343	9.329	9.352	VV	682	7231	0.10%	0.005%
151	9.358	9.352	9.380	VV	676	6713	0.10%	0.005%
152	9.386	9.380	9.390	VV	339	1682	0.02%	0.001%
153	9.407	9.390	9.436	VV	1309	21282	0.30%	0.015%
154	9.452	9.436	9.463	VV	549	6558	0.09%	0.005%
155	9.496	9.463	9.552	VV	591745	5970397	85.54%	4.109%
156	9.573	9.552	9.600	VV	1458	20706	0.30%	0.014%
157	9.625	9.600	9.633	VV	765	11002	0.16%	0.008%
158	9.640	9.633	9.653	VV	734	8296	0.12%	0.006%
159	9.666	9.653	9.685	VV	1413	19367	0.28%	0.013%
160	9.705	9.685	9.725	VV	9010	98873	1.42%	0.068%
161	9.736	9.725	9.745	VV	2074	18691	0.27%	0.013%
162	9.768	9.745	9.797	VV	83088	827439	11.85%	0.569%
163	9.812	9.797	9.850	VV	1459	25902	0.37%	0.018%
164	9.895	9.850	9.926	VV	51203	570081	8.17%	0.392%
165	9.935	9.926	9.954	VV	706	7462	0.11%	0.005%
166	9.974	9.954	9.987	VV	917	12495	0.18%	0.009%
167	10.000	9.987	10.048	VV	740	16000	0.23%	0.011%
168	10.065	10.048	10.070	VV	615	5260	0.08%	0.004%
169	10.092	10.070	10.119	VV	2497	29885	0.43%	0.021%
170	10.129	10.119	10.155	PV	193	2050	0.03%	0.001%
171	10.180	10.155	10.188	PV	450	4291	0.06%	0.003%
172	10.193	10.188	10.200	VV	179	1175	0.02%	0.001%
173	10.206	10.200	10.211	VV	316	1832	0.03%	0.001%
174	10.240	10.211	10.274	VV	4505	57701	0.83%	0.040%
175	10.288	10.274	10.308	VV	887	12318	0.18%	0.008%
176	10.339	10.308	10.359	VV	884	20028	0.29%	0.014%
177	10.369	10.359	10.390	VV	1103	14021	0.20%	0.010%
178	10.416	10.390	10.446	VV	1274	22242	0.32%	0.015%
179	10.451	10.446	10.457	VV	325	2062	0.03%	0.001%
180	10.487	10.457	10.514	VV	1046	23290	0.33%	0.016%
181	10.537	10.514	10.568	VV	2487	39502	0.57%	0.027%
182	10.576	10.568	10.580	VV	770	5090	0.07%	0.004%
183	10.586	10.580	10.603	VV	948	9673	0.14%	0.007%
184	10.628	10.603	10.643	VV	1841	28365	0.41%	0.020%
185	10.654	10.643	10.664	VV	1605	16983	0.24%	0.012%
186	10.683	10.664	10.728	VV	11874	183093	2.62%	0.126%
187	10.764	10.728	10.782	VV	1225	26043	0.37%	0.018%
188	10.789	10.782	10.810	VV	908	10246	0.15%	0.007%
189	10.857	10.810	10.865	VV	3981	53012	0.76%	0.036%
190	10.895	10.865	10.933	VV	606745	6476751	92.79%	4.457%
191	10.970	10.933	11.012	VV	595420	6214362	89.03%	4.277%
192	11.041	11.012	11.079	VV	1362	33222	0.48%	0.023%
193	11.084	11.079	11.116	VV	696	8349	0.12%	0.006%
194	11.135	11.116	11.148	VV	356	4196	0.06%	0.003%

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195	11.171	11.148	11.217	VV	5927	68245	0.98%	0.047%
196	11.224	11.217	11.230	VV	333	1966	0.03%	0.001%
197	11.236	11.230	11.240	VV	397	2199	0.03%	0.002%
198	11.265	11.240	11.282	VV	694	13476	0.19%	0.009%
199	11.291	11.282	11.298	VV	548	4176	0.06%	0.003%
200	11.332	11.298	11.359	VV	53254	589693	8.45%	0.406%
201	11.407	11.359	11.454	VV	1241	40246	0.58%	0.028%
202	11.490	11.463	11.506	VV	1292	17566	0.25%	0.012%
203	11.533	11.506	11.538	VV	720	8453	0.12%	0.006%
204	11.542	11.538	11.563	VV	637	4222	0.06%	0.003%
205	11.576	11.563	11.592	VV	718	6833	0.10%	0.005%
206	11.658	11.592	11.682	PV	512741	5516751	79.04%	3.797%
207	11.689	11.682	11.703	VV	3620	32113	0.46%	0.022%
208	11.719	11.703	11.740	VV	4817	57323	0.82%	0.039%
209	11.757	11.740	11.767	VV	1060	15454	0.22%	0.011%
210	11.784	11.767	11.795	VV	2540	32292	0.46%	0.022%
211	11.805	11.795	11.823	VV	3023	43965	0.63%	0.030%
212	11.836	11.823	11.852	VV	3922	44445	0.64%	0.031%
213	11.867	11.852	11.897	VV	3821	45537	0.65%	0.031%
214	11.906	11.897	11.912	VV	456	2353	0.03%	0.002%
215	11.931	11.912	11.958	VV	1530	22019	0.32%	0.015%
216	11.999	11.958	12.016	VV	1409	30334	0.43%	0.021%
217	12.049	12.016	12.080	VV	9373	147340	2.11%	0.101%
218	12.093	12.080	12.114	VV	1259	15754	0.23%	0.011%
219	12.158	12.114	12.175	PV	2836	41319	0.59%	0.028%
220	12.218	12.175	12.225	VV	1524	34797	0.50%	0.024%
221	12.253	12.225	12.353	VV	156944	2151951	30.83%	1.481%
222	12.357	12.353	12.373	VV	3461	37701	0.54%	0.026%
223	12.383	12.373	12.395	VV	3035	36716	0.53%	0.025%
224	12.404	12.395	12.421	VV	3050	44009	0.63%	0.030%
225	12.426	12.421	12.445	VV	2609	32599	0.47%	0.022%
226	12.478	12.445	12.520	VV	4721	136631	1.96%	0.094%
227	12.533	12.520	12.555	VV	3055	46203	0.66%	0.032%
228	12.584	12.555	12.604	VV	5125	86949	1.25%	0.060%
229	12.636	12.604	12.672	VV	57441	729316	10.45%	0.502%
230	12.709	12.672	12.783	VV	614120	6979819	100.00%	4.803%
231	12.801	12.783	12.813	VV	765	10721	0.15%	0.007%
232	12.839	12.813	12.847	VV	1355	20505	0.29%	0.014%
233	12.859	12.847	12.867	VV	1409	14999	0.21%	0.010%
234	12.888	12.867	12.932	VV	8097	121463	1.74%	0.084%
235	12.936	12.932	12.953	VV	1074	11058	0.16%	0.008%
236	12.957	12.953	12.967	VV	833	5869	0.08%	0.004%
237	13.008	12.967	13.034	VV	580090	6710982	96.15%	4.618%
238	13.080	13.034	13.113	VV	65170	872456	12.50%	0.600%
239	13.134	13.113	13.143	VV	1321	20254	0.29%	0.014%
240	13.148	13.143	13.156	VV	1383	9115	0.13%	0.006%
241	13.170	13.156	13.193	VV	1770	26495	0.38%	0.018%
242	13.200	13.193	13.219	VV	638	7538	0.11%	0.005%
243	13.245	13.219	13.278	VV	49650	620982	8.90%	0.427%
244	13.298	13.278	13.317	VV	5429	70806	1.01%	0.049%
245	13.329	13.317	13.348	VV	1417	18653	0.27%	0.013%
246	13.391	13.348	13.407	VV	2760	62049	0.89%	0.043%

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247	13.419	13.407	13.432	VV	2459	33591	0.48%	0.023%
248	13.477	13.432	13.508	VV	53076	725674	10.40%	0.499%
249	13.527	13.508	13.556	VV	15750	270388	3.87%	0.186%
250	13.581	13.556	13.635	VV	7500	193644	2.77%	0.133%
251	13.650	13.635	13.672	VV	2709	47788	0.68%	0.033%
252	13.694	13.672	13.713	VV	3446	67225	0.96%	0.046%
253	13.729	13.713	13.749	VV	4054	60247	0.86%	0.041%
254	13.781	13.749	13.802	VV	5123	93634	1.34%	0.064%
255	13.830	13.802	13.880	VV	51609	695353	9.96%	0.479%
256	13.900	13.880	13.915	VV	3332	45138	0.65%	0.031%
257	13.939	13.915	13.964	VV	18950	236932	3.39%	0.163%
258	13.971	13.964	13.990	VV	1199	14338	0.21%	0.010%
259	14.006	13.990	14.024	VV	822	12689	0.18%	0.009%
260	14.060	14.024	14.100	VV	1159	32944	0.47%	0.023%
261	14.108	14.100	14.130	VV	731	7638	0.11%	0.005%
262	14.133	14.130	14.150	VV	345	3071	0.04%	0.002%
263	14.164	14.150	14.177	VV	676	8387	0.12%	0.006%
264	14.180	14.177	14.184	VV	499	2202	0.03%	0.002%
265	14.190	14.184	14.208	VV	647	6456	0.09%	0.004%
266	14.221	14.208	14.231	VV	799	8561	0.12%	0.006%
267	14.267	14.231	14.292	VV	2624	56592	0.81%	0.039%
268	14.311	14.292	14.345	VV	4301	65705	0.94%	0.045%
269	14.361	14.345	14.370	VV	767	9590	0.14%	0.007%
270	14.393	14.370	14.405	VV	1176	19733	0.28%	0.014%
271	14.414	14.405	14.446	VV	1368	23609	0.34%	0.016%
272	14.493	14.446	14.516	VV	2813	72750	1.04%	0.050%
273	14.524	14.516	14.535	VV	1181	12668	0.18%	0.009%
274	14.557	14.535	14.577	VV	5562	68945	0.99%	0.047%
275	14.613	14.577	14.649	VV	3464	63450	0.91%	0.044%
276	14.679	14.649	14.703	VV	1036	23165	0.33%	0.016%
277	14.721	14.703	14.727	VV	1164	14406	0.21%	0.010%
278	14.766	14.727	14.807	VV	14875	202704	2.90%	0.139%
279	14.812	14.807	14.833	VV	699	7420	0.11%	0.005%
280	14.877	14.833	14.896	VV	495854	6268513	89.81%	4.314%
281	14.922	14.896	14.989	VV	579672	6812334	97.60%	4.688%
282	15.027	14.989	15.080	VV	3074	68945	0.99%	0.047%
283	15.104	15.080	15.141	VV	1361	28551	0.41%	0.020%
284	15.168	15.141	15.176	PV	1568	17984	0.26%	0.012%
285	15.181	15.176	15.197	VV	1208	13444	0.19%	0.009%
286	15.203	15.197	15.258	VV	1186	26940	0.39%	0.019%
287	15.308	15.258	15.412	VV	14201	372275	5.33%	0.256%
288	15.415	15.412	15.427	VV	679	5610	0.08%	0.004%
289	15.467	15.427	15.488	VV	7891	119742	1.72%	0.082%
290	15.494	15.488	15.500	VV	1573	10040	0.14%	0.007%
291	15.502	15.500	15.516	VV	1500	12647	0.18%	0.009%
292	15.536	15.516	15.558	VV	4417	59358	0.85%	0.041%
293	15.574	15.558	15.601	VV	2313	31799	0.46%	0.022%
294	15.618	15.601	15.625	VV	948	10745	0.15%	0.007%
295	15.674	15.625	15.690	VV	2337	55494	0.80%	0.038%
296	15.698	15.690	15.731	VV	2161	33206	0.48%	0.023%
297	15.736	15.731	15.741	VV	521	2343	0.03%	0.002%
298	15.745	15.741	15.754	VV	444	3554	0.05%	0.002%
299	15.778	15.754	15.806	VV	2652	40381	0.58%	0.028%

rteres

300	15.816	15.806	15.832	VV	722	8213	0.12%	0.006%
301	15.857	15.832	15.871	VV	1314	19386	0.28%	0.013%
302	15.887	15.871	15.914	VV	1093	21895	0.31%	0.015%
303	15.947	15.914	15.990	VV	44795	579960	8.31%	0.399%
304	16.006	15.990	16.024	VV	723	9104	0.13%	0.006%
305	16.038	16.024	16.058	VV	310	2813	0.04%	0.002%
306	16.064	16.058	16.095	VV	270	3242	0.05%	0.002%
307	16.145	16.095	16.189	VV	1614	36428	0.52%	0.025%
308	16.201	16.189	16.219	PV	591	7027	0.10%	0.005%
309	16.250	16.219	16.269	VV	881	16857	0.24%	0.012%
310	16.285	16.269	16.300	VV	631	8257	0.12%	0.006%
311	16.345	16.300	16.378	VV	3025	74811	1.07%	0.051%
312	16.428	16.378	16.443	VV	429509	6023826	86.30%	4.146%
313	16.463	16.443	16.487	VV	501851	5860145	83.96%	4.033%
314	16.509	16.487	16.532	VV	8692	116510	1.67%	0.080%
315	16.553	16.532	16.579	VV	4228	67603	0.97%	0.047%
316	16.583	16.579	16.638	VV	1317	24117	0.35%	0.017%
317	16.669	16.638	16.689	VV	3267	43911	0.63%	0.030%
318	16.738	16.689	16.767	VV	11355	186960	2.68%	0.129%
319	16.809	16.767	16.839	VV	431780	5617329	80.48%	3.866%
320	16.892	16.839	16.927	VV	48913	688322	9.86%	0.474%
321	16.944	16.927	16.957	VV	1862	27473	0.39%	0.019%
322	16.965	16.957	16.988	VV	1462	19986	0.29%	0.014%
323	17.007	16.988	17.015	VV	779	11074	0.16%	0.008%
324	17.036	17.015	17.087	VV	1197	33509	0.48%	0.023%
325	17.097	17.087	17.122	VV	663	8725	0.12%	0.006%
326	17.161	17.122	17.197	VV	1559	43298	0.62%	0.030%
327	17.200	17.197	17.229	VV	749	7015	0.10%	0.005%
328	17.292	17.229	17.307	PV	2411	58368	0.84%	0.040%
329	17.317	17.307	17.324	VV	1898	17991	0.26%	0.012%
330	17.335	17.324	17.357	VV	1968	30834	0.44%	0.021%
331	17.374	17.357	17.399	VV	1445	22983	0.33%	0.016%
332	17.408	17.399	17.421	VV	644	8419	0.12%	0.006%
333	17.449	17.421	17.475	VV	1554	33214	0.48%	0.023%
334	17.493	17.475	17.509	VV	838	12785	0.18%	0.009%
335	17.514	17.509	17.524	VV	520	4375	0.06%	0.003%
336	17.537	17.524	17.549	VV	585	7156	0.10%	0.005%
337	17.567	17.549	17.595	VV	617	10904	0.16%	0.008%
338	17.599	17.595	17.602	VV	383	1217	0.02%	0.001%
339	17.605	17.602	17.611	VV	305	1174	0.02%	0.001%
340	17.638	17.611	17.652	VV	690	11128	0.16%	0.008%
341	17.672	17.652	17.685	VV	649	9065	0.13%	0.006%
342	17.738	17.685	17.744	VV	1686	30620	0.44%	0.021%
343	17.776	17.744	17.808	VV	40024	545370	7.81%	0.375%
344	17.839	17.808	17.845	VV	940	14991	0.21%	0.010%
345	17.864	17.845	17.878	VV	1895	28598	0.41%	0.020%
346	17.887	17.878	17.906	VV	1481	17940	0.26%	0.012%
347	17.926	17.906	17.935	VV	1366	17984	0.26%	0.012%
348	17.940	17.935	17.978	VV	1313	22523	0.32%	0.016%
349	18.012	17.978	18.037	VV	1214	25035	0.36%	0.017%
350	18.069	18.037	18.103	VV	2975	58145	0.83%	0.040%
351	18.174	18.103	18.189	VV	410783	6013271	86.15%	4.138%

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352	18.213	18.189	18.273	VV	424330	5511679	78.97%	3.793%
353	18.295	18.273	18.310	VV	3260	46873	0.67%	0.032%
354	18.327	18.310	18.354	VV	3043	52259	0.75%	0.036%
355	18.356	18.354	18.362	VV	1099	5141	0.07%	0.004%
356	18.373	18.362	18.378	VV	995	8935	0.13%	0.006%
357	18.432	18.378	18.479	VV	385009	5598326	80.21%	3.853%
358	18.496	18.479	18.518	VV	1363	25474	0.36%	0.018%
359	18.542	18.518	18.563	VV	2838	45538	0.65%	0.031%
360	18.604	18.563	18.639	VV	37076	545799	7.82%	0.376%
361	18.643	18.639	18.667	VV	1310	16323	0.23%	0.011%
362	18.702	18.667	18.737	VV	2432	69697	1.00%	0.048%
363	18.754	18.737	18.794	VV	1604	50663	0.73%	0.035%
364	18.803	18.794	18.815	VV	1571	18147	0.26%	0.012%
365	18.840	18.815	18.857	VV	1895	38314	0.55%	0.026%
366	18.881	18.857	18.899	VV	1795	39864	0.57%	0.027%
367	18.924	18.899	18.930	VV	1878	30614	0.44%	0.021%
368	18.934	18.930	18.938	VV	1909	8619	0.12%	0.006%
369	18.970	18.938	19.070	VV	7890	343041	4.91%	0.236%
370	19.087	19.070	19.093	VV	2746	35101	0.50%	0.024%
371	19.098	19.093	19.121	VV	2902	41589	0.60%	0.029%
372	19.130	19.121	19.142	VV	2210	26998	0.39%	0.019%
373	19.147	19.142	19.156	VV	2052	17245	0.25%	0.012%
374	19.198	19.156	19.220	VV	2824	86032	1.23%	0.059%
375	19.260	19.220	19.281	VV	2492	82790	1.19%	0.057%
376	19.289	19.281	19.310	VV	2376	39914	0.57%	0.027%
377	19.330	19.310	19.336	VV	2341	34718	0.50%	0.024%
378	19.383	19.336	19.416	VV	39314	657215	9.42%	0.452%
379	19.424	19.416	19.435	VV	2843	30872	0.44%	0.021%
380	19.449	19.435	19.461	VV	2939	43875	0.63%	0.030%
381	19.490	19.461	19.520	VV	4331	115745	1.66%	0.080%
382	19.559	19.520	19.584	VV	7029	173241	2.48%	0.119%
383	19.623	19.584	19.654	VV	6158	195317	2.80%	0.134%
384	19.680	19.654	19.698	VV	4800	116985	1.68%	0.081%
385	19.753	19.698	19.785	VV	5978	251047	3.60%	0.173%
386	19.800	19.785	19.820	VV	4376	89225	1.28%	0.061%
387	19.839	19.820	19.870	VV	4744	129615	1.86%	0.089%
388	19.875	19.870	19.880	VV	4104	23125	0.33%	0.016%
389	19.933	19.880	19.965	VV	8353	308300	4.42%	0.212%
390	20.026	19.965	20.051	VV	7957	326261	4.67%	0.225%
391	20.077	20.051	20.089	VV	6500	138994	1.99%	0.096%
392	20.120	20.089	20.154	VV	37054	667500	9.56%	0.459%
393	20.199	20.154	20.203	VV	6423	186063	2.67%	0.128%
394	20.207	20.203	20.216	VV	6447	46314	0.66%	0.032%
395	20.262	20.216	20.276	VV	10255	290167	4.16%	0.200%
396	20.286	20.276	20.325	VV	9536	228905	3.28%	0.158%
397	20.367	20.325	20.381	VV	7193	235140	3.37%	0.162%
398	20.409	20.381	20.420	VV	7438	168212	2.41%	0.116%
399	20.469	20.420	20.495	VV	8106	349318	5.00%	0.240%
400	20.533	20.495	20.555	VV	7746	274009	3.93%	0.189%
401	20.564	20.555	20.595	VV	7788	182780	2.62%	0.126%
402	20.598	20.595	20.608	VV	7574	59180	0.85%	0.041%
403	20.620	20.608	20.632	VV	7499	103670	1.49%	0.071%
404	20.651	20.632	20.660	VV	7491	125544	1.80%	0.086%

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405	20.664	20.660	20.700	VV	7516	169791	2.43%	0.117%
406	20.704	20.700	20.709	VV	6927	33945	0.49%	0.023%
407	20.714	20.709	20.727	VV	6951	76022	1.09%	0.052%
408	20.736	20.727	20.745	VV	6973	71833	1.03%	0.049%
409	20.752	20.745	20.764	VV	6857	78901	1.13%	0.054%
410	20.770	20.764	20.780	VV	6859	63035	0.90%	0.043%
411	20.788	20.780	20.808	VV	6634	108454	1.55%	0.075%
412	20.857	20.808	20.899	VV	31796	771335	11.05%	0.531%
413	20.904	20.899	20.907	VV	5840	28151	0.40%	0.019%
414	20.915	20.907	20.927	VV	6076	72804	1.04%	0.050%
415	20.930	20.927	20.950	VV	6279	86031	1.23%	0.059%
416	20.962	20.950	21.021	VV	6374	241350	3.46%	0.166%
417	21.035	21.021	21.067	VV	5333	141234	2.02%	0.097%
418	21.112	21.067	21.133	VV	5110	193575	2.77%	0.133%
419	21.150	21.133	21.161	VV	5139	81185	1.16%	0.056%
420	21.165	21.161	21.190	VV	4946	83746	1.20%	0.058%
421	21.195	21.190	21.212	VV	4600	57281	0.82%	0.039%
422	21.215	21.212	21.250	VV	4578	100337	1.44%	0.069%
423	21.276	21.250	21.281	VV	5062	88500	1.27%	0.061%
424	21.303	21.281	21.344	VV	5284	178447	2.56%	0.123%
425	21.350	21.344	21.399	VV	4318	131229	1.88%	0.090%
426	21.405	21.399	21.423	VV	3665	50540	0.72%	0.035%
427	21.428	21.423	21.443	VV	3537	40846	0.59%	0.028%
428	21.465	21.443	21.474	VV	3650	65844	0.94%	0.045%
429	21.478	21.474	21.502	VV	3613	54710	0.78%	0.038%
430	21.521	21.502	21.558	VV	3557	108150	1.55%	0.074%
431	21.565	21.558	21.571	VV	2887	23335	0.33%	0.016%
432	21.606	21.571	21.658	VV	3614	152702	2.19%	0.105%
433	21.686	21.658	21.724	VV	3486	107607	1.54%	0.074%
434	21.778	21.724	21.850	VV	20718	580008	8.31%	0.399%
435	21.853	21.850	21.858	VV	1855	8650	0.12%	0.006%
436	21.865	21.858	21.872	VV	1696	13325	0.19%	0.009%
437	21.878	21.872	21.895	VV	1813	22839	0.33%	0.016%
438	21.916	21.895	21.932	VV	1719	35508	0.51%	0.024%
439	21.969	21.932	21.977	VV	1824	44343	0.64%	0.031%
440	21.990	21.977	22.018	VV	1874	38952	0.56%	0.027%
441	22.026	22.018	22.034	VV	1224	10928	0.16%	0.008%
442	22.046	22.034	22.074	VV	1375	26905	0.39%	0.019%
443	22.082	22.074	22.108	VV	954	17007	0.24%	0.012%
444	22.112	22.108	22.146	VV	678	10389	0.15%	0.007%
445	22.171	22.146	22.177	VV	499	6349	0.09%	0.004%
446	22.182	22.177	22.195	VV	441	3094	0.04%	0.002%

Sum of corrected areas: 145307937

Aromatic EPH 040725.M Fri Apr 11 01:42:09 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049277.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:45
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 01:05:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.749	5402290	36.469 ug/ml
Spiked Amount	50.000		Recovery =	72.94%
6) S	2-Flurobiphenyl (SURR)	8.615	3125160	30.638 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	61.28%
11) S	ortho-Terphenyl (SURR)	11.657	5397335	30.635 ug/ml
Spiked Amount	50.000		Recovery =	61.27%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.541	2191469	14.624 ug/ml
2) T	Naphthalene (C11.7)	6.085	3107334	18.978 ug/ml
3) T	2-Methylnaphthalene (...	7.139	3471583	21.463 ug/ml
5) T	Acenaphthylene (C15.06)	8.419	4992986	28.267 ug/ml
7) T	Acenaphthene (C15.5)	8.715	4962706	28.805 ug/ml
8) T	Flouorene (C16.55)	9.496	5818239	33.365 ug/ml
9) T	Phenanthrene (C19.36)	10.894	6340780	36.948 ug/ml
10) T	Anthracene (C19.43)	10.970	6087215	38.748 ug/ml
12) T	Fluoranthene (C21.85)	12.709	6875608	40.677 ug/ml
13) T	Pyrene (C20.8)	13.008	6637585	39.576 ug/ml
14) T	Benzo[a]anthracene (C...	14.878	6247616	43.463 ug/ml
15) T	Chrysene (C27.41)	14.923	6757556	46.832 ug/ml
16) T	benzo[b]fluoranthene ...	16.428	5992863	43.076 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.464	5821762	42.567 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.808	5577777	42.894 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.174	5942171	48.202 ug/ml
20) T	Dibenz[a,h]anthracene...	18.212	5441286	43.032 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.432	5514184	42.238 ug/ml

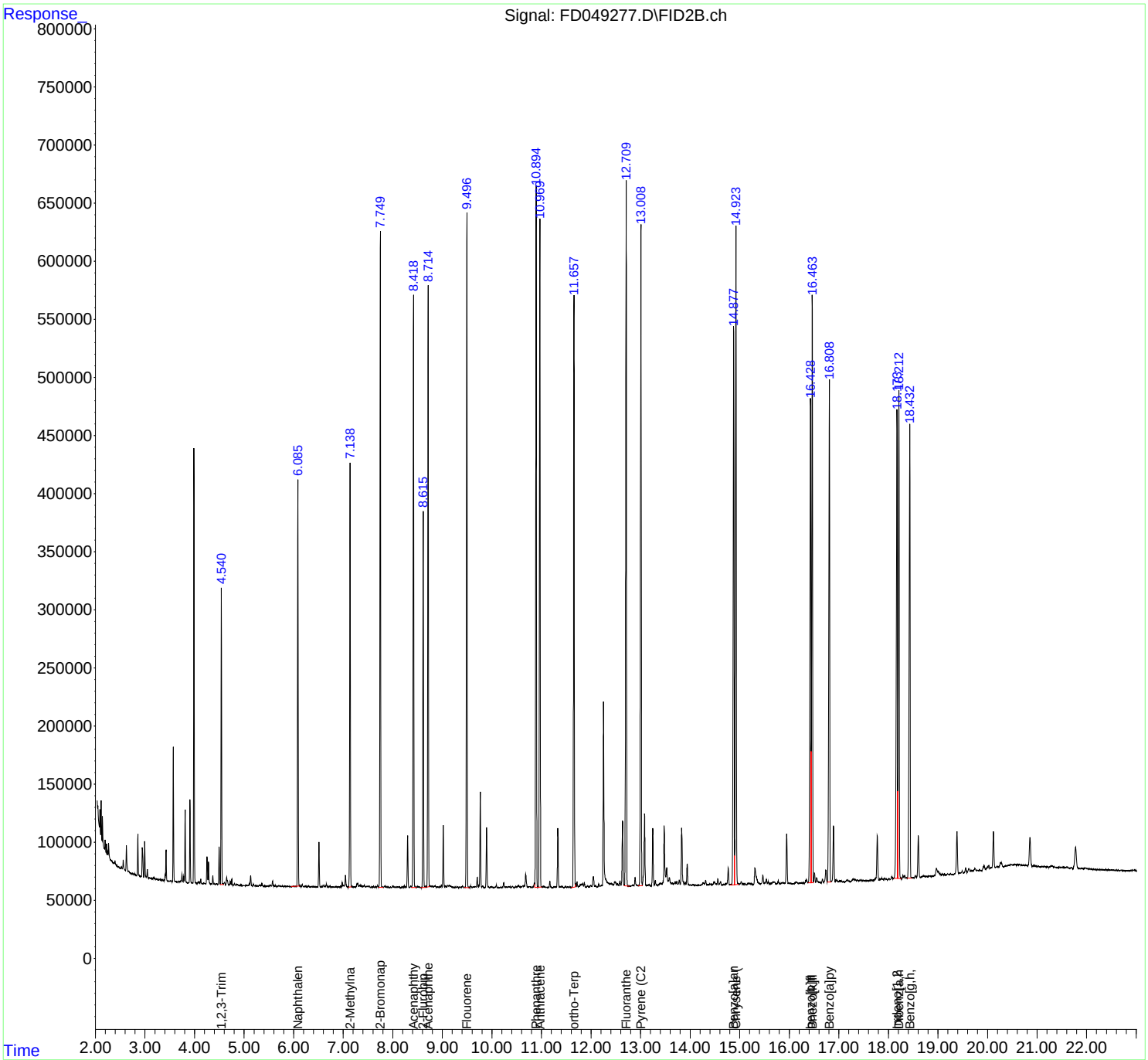
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049277.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:45
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 01:05:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049277.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:45
Sample : Q1746-01MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.072	4.042	4.085	BV	1489	11893	0.17%	0.008%
2	4.098	4.085	4.112	VV	1422	13595	0.20%	0.009%
3	4.125	4.112	4.157	VV	3910	35286	0.51%	0.025%
4	4.164	4.157	4.179	PV	290	1438	0.02%	0.001%
5	4.193	4.179	4.217	VV	472	5959	0.09%	0.004%
6	4.252	4.217	4.269	VV	23490	255301	3.69%	0.178%
7	4.283	4.269	4.333	VV	19067	178257	2.58%	0.124%
8	4.342	4.333	4.352	PV	339	2177	0.03%	0.002%
9	4.369	4.352	4.387	VV	7738	63527	0.92%	0.044%
10	4.392	4.387	4.437	VV	601	9748	0.14%	0.007%
11	4.455	4.437	4.474	VV	571	8244	0.12%	0.006%
12	4.497	4.474	4.518	VV	32630	292312	4.23%	0.203%
13	4.541	4.518	4.578	VV	255261	2201519	31.86%	1.532%
14	4.604	4.578	4.626	VV	2222	35587	0.52%	0.025%
15	4.648	4.626	4.660	VV	6859	71628	1.04%	0.050%
16	4.665	4.660	4.692	VV	3940	34036	0.49%	0.024%
17	4.699	4.692	4.705	VV	431	2415	0.03%	0.002%
18	4.721	4.705	4.737	VV	3443	34479	0.50%	0.024%
19	4.751	4.737	4.774	VV	5444	52255	0.76%	0.036%
20	4.804	4.774	4.823	VV	1517	18037	0.26%	0.013%
21	4.839	4.823	4.861	PV	1508	18323	0.27%	0.013%
22	4.867	4.861	4.904	VV	782	11210	0.16%	0.008%
23	4.908	4.904	4.912	VV	321	1224	0.02%	0.001%
24	4.916	4.912	4.925	VV	383	2305	0.03%	0.002%
25	4.940	4.925	4.960	VV	748	8321	0.12%	0.006%
26	4.969	4.960	4.987	VV	313	2035	0.03%	0.001%
27	5.003	4.996	5.014	VV	269	1923	0.03%	0.001%
28	5.022	5.014	5.029	VV	213	1470	0.02%	0.001%
29	5.033	5.029	5.041	VV	291	1762	0.03%	0.001%
30	5.059	5.041	5.081	VV	654	11127	0.16%	0.008%
31	5.106	5.081	5.117	VV	2579	27799	0.40%	0.019%
32	5.133	5.117	5.167	VV	9196	102408	1.48%	0.071%
33	5.189	5.167	5.216	VV	2021	26206	0.38%	0.018%
34	5.220	5.216	5.232	VV	643	4080	0.06%	0.003%
35	5.247	5.232	5.270	VV	633	9200	0.13%	0.006%
36	5.286	5.270	5.290	VV	441	3699	0.05%	0.003%

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37	5.324	5.290	5.339	VV	1215	25143	0.36%	0.017%
38	5.359	5.339	5.387	VV	3054	38770	0.56%	0.027%
39	5.425	5.387	5.446	PV	716	17451	0.25%	0.012%
40	5.456	5.446	5.473	VV	623	8313	0.12%	0.006%
41	5.478	5.473	5.490	VV	581	5419	0.08%	0.004%
42	5.500	5.490	5.517	VV	956	12101	0.18%	0.008%
43	5.533	5.517	5.551	VV	1650	21131	0.31%	0.015%
44	5.575	5.551	5.606	VV	5144	67821	0.98%	0.047%
45	5.629	5.606	5.674	VV	1437	28609	0.41%	0.020%
46	5.695	5.674	5.751	VV	940	28625	0.41%	0.020%
47	5.775	5.751	5.810	VV	963	17027	0.25%	0.012%
48	5.830	5.810	5.844	VV	680	9820	0.14%	0.007%
49	5.874	5.844	5.906	VV	638	16846	0.24%	0.012%
50	5.913	5.906	5.949	VV	451	8691	0.13%	0.006%
51	5.977	5.949	5.992	VV	612	10469	0.15%	0.007%
52	5.994	5.992	6.009	VV	550	4359	0.06%	0.003%
53	6.019	6.009	6.027	VV	526	3971	0.06%	0.003%
54	6.035	6.027	6.045	VV	608	4617	0.07%	0.003%
55	6.085	6.045	6.120	VV	349656	3144806	45.51%	2.188%
56	6.130	6.120	6.153	VV	1401	17574	0.25%	0.012%
57	6.173	6.153	6.199	VV	2550	30586	0.44%	0.021%
58	6.231	6.199	6.244	VV	794	13961	0.20%	0.010%
59	6.248	6.244	6.272	VV	624	4927	0.07%	0.003%
60	6.307	6.272	6.334	VV	915	17790	0.26%	0.012%
61	6.337	6.334	6.346	VV	245	1452	0.02%	0.001%
62	6.364	6.346	6.384	VV	857	10601	0.15%	0.007%
63	6.396	6.384	6.415	VV	467	5103	0.07%	0.004%
64	6.430	6.415	6.462	VV	354	5267	0.08%	0.004%
65	6.471	6.462	6.484	PV	126	1482	0.02%	0.001%
66	6.511	6.484	6.543	VV	38962	377705	5.47%	0.263%
67	6.555	6.543	6.569	VV	460	4878	0.07%	0.003%
68	6.595	6.569	6.618	VV	1808	25029	0.36%	0.017%
69	6.630	6.618	6.644	VV	1114	11818	0.17%	0.008%
70	6.661	6.644	6.684	VV	2831	32098	0.46%	0.022%
71	6.694	6.684	6.713	VV	1002	10860	0.16%	0.008%
72	6.733	6.713	6.758	VV	1442	16565	0.24%	0.012%
73	6.771	6.758	6.795	VV	248	4251	0.06%	0.003%
74	6.803	6.795	6.819	VV	279	2251	0.03%	0.002%
75	6.827	6.819	6.835	VV	372	2026	0.03%	0.001%
76	6.838	6.835	6.851	VV	305	1942	0.03%	0.001%
77	6.871	6.851	6.880	VV	361	3423	0.05%	0.002%
78	6.887	6.880	6.900	VV	526	3327	0.05%	0.002%
79	6.907	6.900	6.931	VV	398	4709	0.07%	0.003%
80	6.953	6.931	6.965	VV	1360	14418	0.21%	0.010%
81	6.980	6.965	6.995	VV	4346	40008	0.58%	0.028%
82	7.006	6.995	7.023	VV	1922	23875	0.35%	0.017%
83	7.046	7.023	7.102	VV	10463	127751	1.85%	0.089%
84	7.139	7.102	7.177	VV	365155	3488574	50.49%	2.427%
85	7.184	7.177	7.205	VV	844	10173	0.15%	0.007%
86	7.215	7.205	7.229	VV	514	6092	0.09%	0.004%
87	7.241	7.229	7.254	VV	548	5713	0.08%	0.004%
88	7.276	7.254	7.282	VV	3093	28473	0.41%	0.020%
89	7.294	7.282	7.312	VV	3694	44996	0.65%	0.031%

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90	7.330	7.312	7.342	VV	2080	26349	0.38%	0.018%
91	7.354	7.342	7.388	VV	1920	30480	0.44%	0.021%
92	7.402	7.388	7.414	VV	1552	16980	0.25%	0.012%
93	7.430	7.414	7.454	VV	2006	26630	0.39%	0.019%
94	7.472	7.454	7.482	VV	889	11914	0.17%	0.008%
95	7.498	7.482	7.510	VV	1101	15060	0.22%	0.010%
96	7.524	7.510	7.566	VV	1656	22312	0.32%	0.016%
97	7.580	7.566	7.597	VV	506	6134	0.09%	0.004%
98	7.613	7.597	7.625	VV	765	7971	0.12%	0.006%
99	7.630	7.625	7.634	VV	459	1980	0.03%	0.001%
100	7.660	7.634	7.678	VV	728	14495	0.21%	0.010%
101	7.694	7.678	7.712	VV	1888	21774	0.32%	0.015%
102	7.749	7.712	7.800	VV	565900	5412187	78.33%	3.766%
103	7.804	7.800	7.812	VV	434	2308	0.03%	0.002%
104	7.833	7.812	7.849	VV	1187	16820	0.24%	0.012%
105	7.859	7.849	7.876	VV	1248	12278	0.18%	0.009%
106	7.883	7.876	7.902	VV	534	5702	0.08%	0.004%
107	7.917	7.902	7.935	VV	498	4992	0.07%	0.003%
108	7.958	7.935	7.974	VV	442	6288	0.09%	0.004%
109	7.997	7.974	8.040	VV	1537	27007	0.39%	0.019%
110	8.055	8.040	8.072	VV	610	7646	0.11%	0.005%
111	8.085	8.072	8.100	VV	611	7792	0.11%	0.005%
112	8.114	8.100	8.121	VV	739	7805	0.11%	0.005%
113	8.126	8.121	8.169	VV	720	9520	0.14%	0.007%
114	8.200	8.169	8.217	PV	684	12303	0.18%	0.009%
115	8.232	8.217	8.245	VV	1765	19094	0.28%	0.013%
116	8.258	8.245	8.274	VV	1221	14101	0.20%	0.010%
117	8.300	8.274	8.327	VV	44869	471776	6.83%	0.328%
118	8.334	8.327	8.343	VV	427	3216	0.05%	0.002%
119	8.364	8.343	8.379	VV	1632	18217	0.26%	0.013%
120	8.419	8.379	8.475	VV	510073	5002227	72.39%	3.481%
121	8.499	8.475	8.522	VV	1025	17395	0.25%	0.012%
122	8.536	8.522	8.557	VV	829	11103	0.16%	0.008%
123	8.562	8.557	8.577	VV	266	2184	0.03%	0.002%
124	8.615	8.577	8.655	VV	323963	3138040	45.41%	2.183%
125	8.666	8.655	8.681	VV	1332	14467	0.21%	0.010%
126	8.715	8.681	8.744	VV	519156	4988204	72.19%	3.471%
127	8.760	8.744	8.775	VV	1568	22807	0.33%	0.016%
128	8.788	8.775	8.804	VV	1385	19299	0.28%	0.013%
129	8.810	8.804	8.817	VV	1131	8134	0.12%	0.006%
130	8.819	8.817	8.822	VV	1037	3005	0.04%	0.002%
131	8.838	8.822	8.843	VV	1348	14958	0.22%	0.010%
132	8.858	8.843	8.880	VV	1583	22309	0.32%	0.016%
133	8.904	8.880	8.918	VV	783	12181	0.18%	0.008%
134	8.925	8.918	8.937	VV	616	5197	0.08%	0.004%
135	8.951	8.937	8.964	VV	860	10832	0.16%	0.008%
136	8.981	8.964	8.997	VV	2390	25810	0.37%	0.018%
137	9.020	8.997	9.043	VV	53729	541239	7.83%	0.377%
138	9.055	9.043	9.068	VV	1723	20906	0.30%	0.015%
139	9.073	9.068	9.088	VV	1224	11179	0.16%	0.008%
140	9.108	9.088	9.127	VV	1993	35279	0.51%	0.025%
141	9.142	9.127	9.164	VV	2227	37377	0.54%	0.026%

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142	9.173	9.164	9.191	VV	1485	16576	0.24%	0.012%
143	9.208	9.191	9.229	VV	706	8546	0.12%	0.006%
144	9.270	9.229	9.287	VV	769	13133	0.19%	0.009%
145	9.306	9.287	9.329	VV	1057	12557	0.18%	0.009%
146	9.344	9.329	9.349	PV	651	4432	0.06%	0.003%
147	9.353	9.349	9.379	VV	646	7617	0.11%	0.005%
148	9.408	9.379	9.437	VV	1356	26429	0.38%	0.018%
149	9.456	9.437	9.462	VV	619	6829	0.10%	0.005%
150	9.496	9.462	9.545	VV	576835	5829034	84.36%	4.056%
151	9.571	9.545	9.603	VV	1376	24989	0.36%	0.017%
152	9.624	9.603	9.633	VV	770	10867	0.16%	0.008%
153	9.664	9.633	9.670	VV	1267	19456	0.28%	0.014%
154	9.671	9.670	9.685	VV	1182	8337	0.12%	0.006%
155	9.705	9.685	9.727	VV	8937	98548	1.43%	0.069%
156	9.738	9.727	9.745	VV	1856	16564	0.24%	0.012%
157	9.767	9.745	9.795	VV	82658	810423	11.73%	0.564%
158	9.814	9.795	9.844	VV	1472	25083	0.36%	0.017%
159	9.849	9.844	9.856	VV	320	1789	0.03%	0.001%
160	9.895	9.856	9.926	VV	51929	559642	8.10%	0.389%
161	9.936	9.926	9.955	VV	713	7793	0.11%	0.005%
162	9.975	9.955	9.990	VV	920	11874	0.17%	0.008%
163	9.999	9.990	10.033	VV	639	10470	0.15%	0.007%
164	10.051	10.033	10.057	VV	299	2968	0.04%	0.002%
165	10.071	10.057	10.077	VV	638	6393	0.09%	0.004%
166	10.092	10.077	10.125	VV	2404	27360	0.40%	0.019%
167	10.128	10.125	10.139	VV	158	1030	0.01%	0.001%
168	10.175	10.155	10.192	PV	531	6213	0.09%	0.004%
169	10.197	10.192	10.207	VV	371	2701	0.04%	0.002%
170	10.240	10.207	10.272	VV	4465	60205	0.87%	0.042%
171	10.293	10.272	10.306	VV	981	12764	0.18%	0.009%
172	10.336	10.306	10.347	VV	989	17235	0.25%	0.012%
173	10.365	10.347	10.393	VV	1059	19758	0.29%	0.014%
174	10.417	10.393	10.438	VV	1372	21140	0.31%	0.015%
175	10.445	10.438	10.459	VV	396	3690	0.05%	0.003%
176	10.486	10.459	10.492	VV	1051	12951	0.19%	0.009%
177	10.496	10.492	10.507	VV	917	6967	0.10%	0.005%
178	10.538	10.507	10.574	VV	2360	47625	0.69%	0.033%
179	10.584	10.574	10.597	VV	937	11030	0.16%	0.008%
180	10.628	10.597	10.642	VV	1901	33084	0.48%	0.023%
181	10.655	10.642	10.662	VV	1760	17150	0.25%	0.012%
182	10.682	10.662	10.736	VV	11889	184945	2.68%	0.129%
183	10.765	10.736	10.783	VV	1115	21043	0.30%	0.015%
184	10.791	10.783	10.809	VV	806	7258	0.11%	0.005%
185	10.835	10.809	10.840	VV	1138	12868	0.19%	0.009%
186	10.857	10.840	10.864	VV	4008	39448	0.57%	0.027%
187	10.894	10.864	10.933	VV	604718	6355277	91.97%	4.422%
188	10.970	10.933	11.010	VV	575600	6108822	88.41%	4.251%
189	11.015	11.010	11.027	VV	749	6340	0.09%	0.004%
190	11.042	11.027	11.070	VV	1305	21998	0.32%	0.015%
191	11.074	11.070	11.101	VV	637	8105	0.12%	0.006%
192	11.133	11.101	11.139	VV	374	5983	0.09%	0.004%
193	11.142	11.139	11.150	VV	352	1794	0.03%	0.001%
194	11.170	11.150	11.214	VV	5791	64279	0.93%	0.045%

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195	11.256	11.223	11.270	PV	827	13472	0.19%	0.009%
196	11.273	11.270	11.292	VV	757	7697	0.11%	0.005%
197	11.296	11.292	11.300	VV	598	2695	0.04%	0.002%
198	11.332	11.300	11.362	VV	51254	583941	8.45%	0.406%
199	11.377	11.362	11.382	VV	777	6899	0.10%	0.005%
200	11.405	11.382	11.453	VV	1173	29832	0.43%	0.021%
201	11.489	11.453	11.506	PV	1239	17791	0.26%	0.012%
202	11.532	11.506	11.555	VV	760	13139	0.19%	0.009%
203	11.577	11.555	11.596	VV	693	8101	0.12%	0.006%
204	11.657	11.596	11.682	PV	510328	5407899	78.26%	3.763%
205	11.687	11.682	11.702	VV	3541	31679	0.46%	0.022%
206	11.719	11.702	11.745	VV	4951	61271	0.89%	0.043%
207	11.751	11.745	11.755	VV	991	5791	0.08%	0.004%
208	11.783	11.755	11.793	VV	2477	35008	0.51%	0.024%
209	11.805	11.793	11.821	VV	2827	42002	0.61%	0.029%
210	11.836	11.821	11.850	VV	3727	45341	0.66%	0.032%
211	11.867	11.850	11.891	VV	3853	46530	0.67%	0.032%
212	11.903	11.891	11.910	VV	361	3206	0.05%	0.002%
213	11.931	11.910	11.965	VV	1627	26289	0.38%	0.018%
214	11.999	11.965	12.015	VV	1541	30356	0.44%	0.021%
215	12.048	12.015	12.075	VV	9248	144859	2.10%	0.101%
216	12.091	12.075	12.119	VV	1304	18996	0.27%	0.013%
217	12.156	12.119	12.180	VV	2728	39539	0.57%	0.028%
218	12.220	12.180	12.229	VV	1557	34222	0.50%	0.024%
219	12.254	12.229	12.392	VV	159490	2202689	31.88%	1.533%
220	12.405	12.392	12.421	VV	3027	46668	0.68%	0.032%
221	12.426	12.421	12.449	VV	2457	36563	0.53%	0.025%
222	12.478	12.449	12.517	VV	4680	125377	1.81%	0.087%
223	12.534	12.517	12.558	VV	2893	49218	0.71%	0.034%
224	12.585	12.558	12.607	VV	4803	83751	1.21%	0.058%
225	12.636	12.607	12.669	VV	56823	708003	10.25%	0.493%
226	12.709	12.669	12.753	VV	608240	6909809	100.00%	4.808%
227	12.758	12.753	12.783	VV	679	10595	0.15%	0.007%
228	12.799	12.783	12.815	VV	687	11247	0.16%	0.008%
229	12.836	12.815	12.848	VV	1384	19413	0.28%	0.014%
230	12.860	12.848	12.868	VV	1377	14125	0.20%	0.010%
231	12.889	12.868	12.930	VV	7984	117114	1.69%	0.081%
232	12.935	12.930	12.953	VV	986	12081	0.17%	0.008%
233	12.958	12.953	12.968	VV	833	6930	0.10%	0.005%
234	13.008	12.968	13.034	VV	570884	6662004	96.41%	4.635%
235	13.080	13.034	13.114	VV	62676	856909	12.40%	0.596%
236	13.135	13.114	13.153	VV	1187	22591	0.33%	0.016%
237	13.168	13.153	13.197	VV	1693	26764	0.39%	0.019%
238	13.201	13.197	13.214	VV	579	4610	0.07%	0.003%
239	13.245	13.214	13.278	VV	49997	610844	8.84%	0.425%
240	13.298	13.278	13.317	VV	5251	66013	0.96%	0.046%
241	13.328	13.317	13.346	VV	1325	16118	0.23%	0.011%
242	13.393	13.346	13.408	VV	2689	62683	0.91%	0.044%
243	13.418	13.408	13.435	VV	2271	31750	0.46%	0.022%
244	13.477	13.435	13.508	VV	52057	714563	10.34%	0.497%
245	13.527	13.508	13.553	VV	15968	257068	3.72%	0.179%
246	13.582	13.553	13.632	VV	7319	193856	2.81%	0.135%

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247	13.649	13.632	13.668	VV	2483	45729	0.66%	0.032%
248	13.692	13.668	13.714	VV	3445	71407	1.03%	0.050%
249	13.729	13.714	13.750	VV	3941	57921	0.84%	0.040%
250	13.782	13.750	13.801	VV	5093	87135	1.26%	0.061%
251	13.830	13.801	13.881	VV	49726	679354	9.83%	0.473%
252	13.899	13.881	13.915	VV	3080	44685	0.65%	0.031%
253	13.940	13.915	13.992	VV	18486	251467	3.64%	0.175%
254	14.009	13.992	14.024	VV	864	12535	0.18%	0.009%
255	14.064	14.024	14.090	VV	1093	25643	0.37%	0.018%
256	14.102	14.090	14.120	VV	708	8993	0.13%	0.006%
257	14.126	14.120	14.147	VV	486	3977	0.06%	0.003%
258	14.173	14.147	14.187	VV	633	9397	0.14%	0.007%
259	14.268	14.187	14.292	VV	2540	70110	1.01%	0.049%
260	14.312	14.292	14.344	VV	4459	67238	0.97%	0.047%
261	14.393	14.344	14.405	VV	1065	26994	0.39%	0.019%
262	14.421	14.405	14.449	VV	1261	22422	0.32%	0.016%
263	14.494	14.449	14.515	VV	2828	71065	1.03%	0.049%
264	14.522	14.515	14.534	VV	1162	11922	0.17%	0.008%
265	14.558	14.534	14.578	VV	5464	70534	1.02%	0.049%
266	14.612	14.578	14.640	VV	3221	56242	0.81%	0.039%
267	14.682	14.640	14.695	VV	832	16627	0.24%	0.012%
268	14.767	14.695	14.806	VV	14933	218855	3.17%	0.152%
269	14.822	14.806	14.835	VV	645	6996	0.10%	0.005%
270	14.878	14.835	14.896	VV	479461	6253771	90.51%	4.351%
271	14.923	14.896	14.987	VV	570055	6782085	98.15%	4.719%
272	15.029	14.987	15.085	VV	2933	69918	1.01%	0.049%
273	15.101	15.085	15.141	VV	1135	21638	0.31%	0.015%
274	15.166	15.141	15.177	PV	1428	18201	0.26%	0.013%
275	15.184	15.177	15.194	VV	1209	12306	0.18%	0.009%
276	15.202	15.194	15.223	VV	1374	18834	0.27%	0.013%
277	15.228	15.223	15.249	VV	1001	9029	0.13%	0.006%
278	15.253	15.249	15.264	VV	321	1874	0.03%	0.001%
279	15.308	15.264	15.421	VV	14261	378168	5.47%	0.263%
280	15.466	15.421	15.489	VV	7987	127064	1.84%	0.088%
281	15.495	15.489	15.515	VV	1494	22224	0.32%	0.015%
282	15.537	15.515	15.559	VV	4621	63888	0.92%	0.044%
283	15.574	15.559	15.593	VV	2458	31010	0.45%	0.022%
284	15.619	15.593	15.635	VV	886	17561	0.25%	0.012%
285	15.674	15.635	15.689	VV	2426	49133	0.71%	0.034%
286	15.698	15.689	15.739	VV	2207	38168	0.55%	0.027%
287	15.776	15.739	15.815	VV	2651	48730	0.71%	0.034%
288	15.818	15.815	15.826	VV	679	3854	0.06%	0.003%
289	15.857	15.826	15.870	VV	1385	23503	0.34%	0.016%
290	15.883	15.870	15.915	VV	1389	26110	0.38%	0.018%
291	15.946	15.915	15.994	VV	42934	586030	8.48%	0.408%
292	16.009	15.994	16.049	VV	805	15729	0.23%	0.011%
293	16.069	16.057	16.077	PV	283	2240	0.03%	0.002%
294	16.093	16.077	16.098	VV	355	2893	0.04%	0.002%
295	16.147	16.098	16.187	VV	1741	46443	0.67%	0.032%
296	16.202	16.187	16.219	VV	566	8020	0.12%	0.006%
297	16.240	16.219	16.243	VV	737	8245	0.12%	0.006%
298	16.251	16.243	16.274	VV	795	9711	0.14%	0.007%
299	16.288	16.274	16.299	VV	554	6406	0.09%	0.004%

rteres

300	16.347	16.299	16.382	VV	2955	74806	1.08%	0.052%
301	16.428	16.382	16.443	VV	416875	6010967	86.99%	4.182%
302	16.464	16.443	16.487	VV	505281	5835842	84.46%	4.061%
303	16.508	16.487	16.531	VV	8750	116074	1.68%	0.081%
304	16.553	16.531	16.578	VV	4390	70559	1.02%	0.049%
305	16.583	16.578	16.604	VV	1324	14600	0.21%	0.010%
306	16.610	16.604	16.634	VV	721	8556	0.12%	0.006%
307	16.668	16.634	16.689	VV	3125	43220	0.63%	0.030%
308	16.738	16.689	16.765	VV	10873	181696	2.63%	0.126%
309	16.808	16.765	16.839	VV	432459	5599806	81.04%	3.896%
310	16.892	16.839	16.922	VV	48683	683704	9.89%	0.476%
311	16.943	16.922	16.956	VV	1763	25858	0.37%	0.018%
312	16.966	16.956	16.989	VV	1305	17417	0.25%	0.012%
313	17.008	16.989	17.019	VV	861	11211	0.16%	0.008%
314	17.040	17.019	17.091	VV	1226	27268	0.39%	0.019%
315	17.102	17.091	17.120	VV	423	3273	0.05%	0.002%
316	17.162	17.120	17.187	VV	1665	36418	0.53%	0.025%
317	17.193	17.187	17.235	VV	820	12660	0.18%	0.009%
318	17.289	17.235	17.309	PV	2403	54850	0.79%	0.038%
319	17.317	17.309	17.356	VV	1829	42334	0.61%	0.029%
320	17.374	17.356	17.398	VV	1436	23233	0.34%	0.016%
321	17.407	17.398	17.412	VV	732	5129	0.07%	0.004%
322	17.418	17.412	17.423	VV	773	4518	0.07%	0.003%
323	17.449	17.423	17.474	VV	1506	27529	0.40%	0.019%
324	17.492	17.474	17.514	VV	647	11293	0.16%	0.008%
325	17.546	17.514	17.553	VV	539	9517	0.14%	0.007%
326	17.564	17.553	17.572	VV	484	4493	0.07%	0.003%
327	17.576	17.572	17.597	VV	378	3663	0.05%	0.003%
328	17.602	17.597	17.608	VV	308	1186	0.02%	0.001%
329	17.628	17.608	17.650	PV	557	9018	0.13%	0.006%
330	17.666	17.650	17.684	VV	543	7864	0.11%	0.005%
331	17.733	17.684	17.739	VV	1467	24582	0.36%	0.017%
332	17.775	17.739	17.807	VV	38709	544302	7.88%	0.379%
333	17.863	17.807	17.881	VV	1685	42567	0.62%	0.030%
334	17.886	17.881	17.907	VV	1199	12366	0.18%	0.009%
335	17.926	17.907	17.984	VV	1500	40046	0.58%	0.028%
336	18.007	17.984	18.039	VV	1066	20352	0.29%	0.014%
337	18.066	18.039	18.095	VV	2748	50234	0.73%	0.035%
338	18.174	18.095	18.188	VV	404221	6004467	86.90%	4.178%
339	18.212	18.188	18.268	VV	421147	5479884	79.31%	3.813%
340	18.294	18.268	18.310	VV	3440	51406	0.74%	0.036%
341	18.328	18.310	18.375	VV	3176	65760	0.95%	0.046%
342	18.432	18.375	18.478	VV	391312	5562721	80.50%	3.871%
343	18.496	18.478	18.517	VV	1234	23089	0.33%	0.016%
344	18.542	18.517	18.565	VV	2723	46368	0.67%	0.032%
345	18.603	18.565	18.661	VV	37064	551478	7.98%	0.384%
346	18.705	18.661	18.730	VV	2300	65988	0.95%	0.046%
347	18.735	18.730	18.747	VV	1573	14766	0.21%	0.010%
348	18.769	18.747	18.795	VV	1540	39306	0.57%	0.027%
349	18.836	18.795	18.860	VV	1825	55807	0.81%	0.039%
350	18.882	18.860	18.892	VV	1618	27531	0.40%	0.019%
351	18.896	18.892	18.902	VV	1248	7075	0.10%	0.005%

rteres

352	18.969	18.902	19.006	VV	8063	253979	3.68%	0.177%
353	19.011	19.006	19.050	VV	4920	93066	1.35%	0.065%
354	19.055	19.050	19.066	VV	2451	20654	0.30%	0.014%
355	19.086	19.066	19.090	VV	2843	36055	0.52%	0.025%
356	19.099	19.090	19.127	VV	2650	53768	0.78%	0.037%
357	19.135	19.127	19.154	VV	2292	32487	0.47%	0.023%
358	19.168	19.154	19.174	VV	1991	23407	0.34%	0.016%
359	19.198	19.174	19.225	VV	2724	70411	1.02%	0.049%
360	19.254	19.225	19.283	VV	2511	78473	1.14%	0.055%
361	19.292	19.283	19.307	VV	2286	32077	0.46%	0.022%
362	19.310	19.307	19.315	VV	2195	9765	0.14%	0.007%
363	19.383	19.315	19.414	VV	38810	678076	9.81%	0.472%
364	19.421	19.414	19.440	VV	3089	45381	0.66%	0.032%
365	19.452	19.440	19.465	VV	3097	43408	0.63%	0.030%
366	19.490	19.465	19.522	VV	4660	121062	1.75%	0.084%
367	19.559	19.522	19.590	VV	6889	182508	2.64%	0.127%
368	19.625	19.590	19.652	VV	6021	179623	2.60%	0.125%
369	19.677	19.652	19.695	VV	4737	111916	1.62%	0.078%
370	19.750	19.695	19.777	VV	6126	244968	3.55%	0.170%
371	19.782	19.777	19.789	VV	4304	30412	0.44%	0.021%
372	19.806	19.789	19.823	VV	4614	87192	1.26%	0.061%
373	19.834	19.823	19.862	VV	4629	101466	1.47%	0.071%
374	19.868	19.862	19.873	VV	4280	26627	0.39%	0.019%
375	19.877	19.873	19.881	VV	4160	20365	0.29%	0.014%
376	19.932	19.881	19.968	VV	8500	322729	4.67%	0.225%
377	20.026	19.968	20.059	VV	8280	353626	5.12%	0.246%
378	20.074	20.059	20.087	VV	6546	105833	1.53%	0.074%
379	20.119	20.087	20.152	VV	37287	667286	9.66%	0.464%
380	20.198	20.152	20.229	VV	6972	303569	4.39%	0.211%
381	20.262	20.229	20.276	VV	10428	242538	3.51%	0.169%
382	20.284	20.276	20.325	VV	9528	231097	3.34%	0.161%
383	20.365	20.325	20.375	VV	7178	201857	2.92%	0.140%
384	20.399	20.375	20.410	VV	7255	151588	2.19%	0.105%
385	20.470	20.410	20.500	VV	8142	414791	6.00%	0.289%
386	20.505	20.500	20.525	VV	7806	117768	1.70%	0.082%
387	20.529	20.525	20.534	VV	7703	38398	0.56%	0.027%
388	20.544	20.534	20.555	VV	7922	99116	1.43%	0.069%
389	20.568	20.555	20.580	VV	8056	116857	1.69%	0.081%
390	20.586	20.580	20.592	VV	7626	53220	0.77%	0.037%
391	20.611	20.592	20.631	VV	7517	173231	2.51%	0.121%
392	20.658	20.631	20.694	VV	7673	271754	3.93%	0.189%
393	20.727	20.694	20.737	VV	6955	178894	2.59%	0.124%
394	20.768	20.737	20.774	VV	6848	150872	2.18%	0.105%
395	20.779	20.774	20.784	VV	6816	38890	0.56%	0.027%
396	20.788	20.784	20.811	VV	6713	106216	1.54%	0.074%
397	20.856	20.811	20.912	VV	30640	803645	11.63%	0.559%
398	20.937	20.912	20.943	VV	6114	112781	1.63%	0.078%
399	20.965	20.943	21.007	VV	6213	215905	3.12%	0.150%
400	21.029	21.007	21.064	VV	5378	175667	2.54%	0.122%
401	21.079	21.064	21.084	VV	4887	58833	0.85%	0.041%
402	21.104	21.084	21.128	VV	5017	128274	1.86%	0.089%
403	21.153	21.128	21.190	VV	5021	175624	2.54%	0.122%
404	21.197	21.190	21.240	VV	4504	127261	1.84%	0.089%

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405	21.279	21.240	21.287	VV	4953	127271	1.84%	0.089%
406	21.305	21.287	21.335	VV	5074	136279	1.97%	0.095%
407	21.346	21.335	21.402	VV	4314	151627	2.19%	0.106%
408	21.418	21.402	21.428	VV	3674	55495	0.80%	0.039%
409	21.447	21.428	21.462	VV	3572	70452	1.02%	0.049%
410	21.477	21.462	21.500	VV	3583	78275	1.13%	0.054%
411	21.524	21.500	21.567	VV	3496	127736	1.85%	0.089%
412	21.599	21.567	21.657	VV	3434	154511	2.24%	0.108%
413	21.685	21.657	21.716	VV	3196	92702	1.34%	0.065%
414	21.777	21.716	21.882	VV	20345	610685	8.84%	0.425%
415	21.948	21.882	21.960	VV	1577	71527	1.04%	0.050%
416	21.982	21.960	22.024	VV	1970	55105	0.80%	0.038%
417	22.051	22.024	22.170	VV	1126	49172	0.71%	0.034%

Sum of corrected areas: 143719842

Aromatic EPH 040725.M Fri Apr 11 01:44:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068568.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 02:32
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 03:48:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.148	3752451	40.395 ug/ml
Spiked Amount	50.000		Recovery =	80.79%
	Target Compounds			
1) T	n-Nonane (C9)	3.445	1615097	15.335 ug/ml
2) T	n-Decane (C10)	4.520	2053613	19.491 ug/ml
4) T	n-Dodecane (C12)	6.545	2675088	25.438 ug/ml
6) T	n-Tetradecane (C14)	8.344	3338038	32.470 ug/ml
7) T	n-Hexadecane (C16)	9.947	3862004	37.922 ug/ml
8) T	n-Octadecane (C18)	11.390	3934684	39.099 ug/ml
10) T	n-Eicosane (C20)	12.702	4025090	40.922 ug/ml
11) T	n-Heneicosane (C21)	13.315	3854750	39.553 ug/ml
13) T	n-Docosane (C22)	13.901	3832142	39.672 ug/ml
14) T	n-Tetracosane (C24)	15.006	3919629	41.179 ug/ml
15) T	n-Hexacosane (C26)	16.029	3759195	40.246 ug/ml
16) T	n-Octacosane (C28)	16.980	3751347	40.973 ug/ml
17) T	n-Tricontane (C30)	17.869	3816537	41.515 ug/ml
18) T	n-Dotriacontane (C32)	18.702	3791590	41.335 ug/ml
19) T	n-Tetratriacontane (C34)	19.488	3787523	42.395 ug/ml
20) T	n-Hexatriacontane (C36)	20.229	3683800	41.123 ug/ml
21) T	n-Octatriacontane (C38)	21.005	3682580	41.652 ug/ml
22) T	n-Tetracontane (C40)	21.985	3559361	40.307 ug/ml

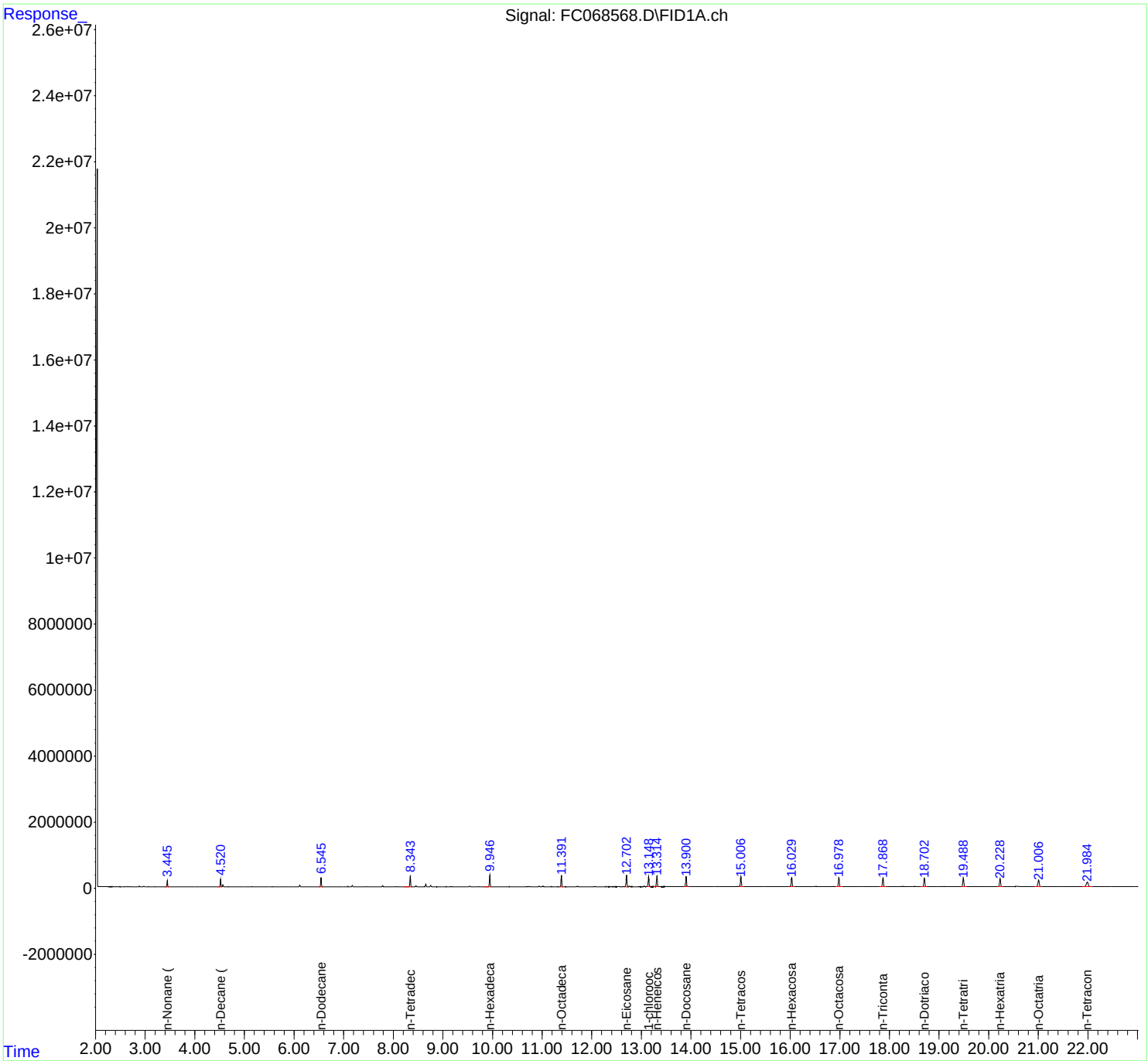
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068568.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 02:32
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 03:48:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068568.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 02:32
Sample : Q1746-01MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.316	2.304	2.347	PH	1730	19634	0.49%	0.026%
2	2.361	2.347	2.399	PV	1734	12600	0.31%	0.016%
3	2.427	2.399	2.478	PV	4822	44714	1.11%	0.058%
4	2.491	2.478	2.508	VV	956	7256	0.18%	0.009%
5	2.519	2.508	2.561	VV	155	1737	0.04%	0.002%
6	2.590	2.561	2.624	VV	2050	18586	0.46%	0.024%
7	2.648	2.624	2.670	PV	6680	51638	1.28%	0.067%
8	2.697	2.670	2.740	VV	7136	66232	1.64%	0.086%
9	2.752	2.740	2.768	VV	213	2304	0.06%	0.003%
10	2.779	2.768	2.804	VV	543	5331	0.13%	0.007%
11	2.816	2.804	2.851	VV	251	2913	0.07%	0.004%
12	2.879	2.851	2.944	PV	20941	161947	4.02%	0.210%
13	2.970	2.944	3.004	VV	10712	137562	3.41%	0.179%
14	3.020	3.004	3.049	VV	859	8178	0.20%	0.011%
15	3.070	3.049	3.097	VV	1350	12369	0.31%	0.016%
16	3.109	3.097	3.130	VV	163	1644	0.04%	0.002%
17	3.149	3.130	3.172	VV	179	2349	0.06%	0.003%
18	3.198	3.172	3.248	VV	1308	11561	0.29%	0.015%
19	3.271	3.248	3.288	VV	209	2306	0.06%	0.003%
20	3.294	3.288	3.328	VV	152	1815	0.05%	0.002%
21	3.341	3.328	3.388	VV	126	2066	0.05%	0.003%
22	3.397	3.388	3.413	VV	117	905	0.02%	0.001%
23	3.445	3.413	3.516	PV	194996	1618488	40.14%	2.103%
24	3.551	3.516	3.564	PV	194	3187	0.08%	0.004%
25	3.576	3.564	3.589	VV	211	2880	0.07%	0.004%
26	3.598	3.589	3.620	VV	184	2294	0.06%	0.003%
27	3.629	3.620	3.637	VV	199	1324	0.03%	0.002%
28	3.650	3.637	3.685	VV	210	3435	0.09%	0.004%
29	3.724	3.685	3.745	PV	333	6264	0.16%	0.008%
30	3.769	3.745	3.807	VV	364	7924	0.20%	0.010%
31	3.824	3.807	3.851	VV	379	5478	0.14%	0.007%
32	3.861	3.851	3.877	VV	312	2615	0.06%	0.003%
33	3.896	3.877	3.909	VV	252	2659	0.07%	0.003%
34	3.921	3.909	3.934	VV	155	1741	0.04%	0.002%
35	3.947	3.934	3.959	VV	442	3762	0.09%	0.005%
36	3.967	3.959	3.988	VV	278	2391	0.06%	0.003%

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37	3.998	3.988	4.017	VV	192	2662	0.07%	0.003%
38	4.033	4.017	4.094	VV	232	6022	0.15%	0.008%
39	4.121	4.094	4.133	VV	450	5756	0.14%	0.007%
40	4.148	4.133	4.167	VV	853	8662	0.21%	0.011%
41	4.179	4.167	4.197	VV	200	2917	0.07%	0.004%
42	4.216	4.197	4.260	VV	352	6140	0.15%	0.008%
43	4.292	4.260	4.321	VV	614	11004	0.27%	0.014%
44	4.328	4.321	4.356	VV	285	3480	0.09%	0.005%
45	4.369	4.356	4.409	VV	185	2910	0.07%	0.004%
46	4.480	4.409	4.490	PV	212	5637	0.14%	0.007%
47	4.520	4.490	4.545	VV	230288	2058440	51.05%	2.674%
48	4.566	4.545	4.608	VV	56601	494446	12.26%	0.642%
49	4.628	4.608	4.654	VV	1248	13978	0.35%	0.018%
50	4.675	4.654	4.711	VV	1565	22110	0.55%	0.029%
51	4.746	4.711	4.760	VV	711	9746	0.24%	0.013%
52	4.776	4.760	4.801	VV	1199	12266	0.30%	0.016%
53	4.808	4.801	4.848	VV	239	3968	0.10%	0.005%
54	4.855	4.848	4.888	VV	191	2477	0.06%	0.003%
55	4.896	4.888	4.924	VV	182	2501	0.06%	0.003%
56	4.943	4.924	4.987	VV	153	3976	0.10%	0.005%
57	5.004	4.987	5.033	VV	222	2554	0.06%	0.003%
58	5.056	5.033	5.066	PV	144	1413	0.04%	0.002%
59	5.079	5.066	5.107	VV	177	2203	0.05%	0.003%
60	5.131	5.107	5.140	VV	441	4052	0.10%	0.005%
61	5.158	5.140	5.188	VV	2003	22790	0.57%	0.030%
62	5.216	5.188	5.231	VV	456	5679	0.14%	0.007%
63	5.244	5.231	5.258	VV	233	2368	0.06%	0.003%
64	5.265	5.258	5.292	VV	180	2345	0.06%	0.003%
65	5.300	5.292	5.341	VV	106	1243	0.03%	0.002%
66	5.355	5.341	5.367	VV	164	1643	0.04%	0.002%
67	5.385	5.367	5.423	VV	322	4481	0.11%	0.006%
68	5.437	5.423	5.476	VV	164	2710	0.07%	0.004%
69	5.488	5.476	5.506	VV	72	908	0.02%	0.001%
70	5.527	5.506	5.541	PV	166	1923	0.05%	0.002%
71	5.561	5.541	5.584	VV	1602	16914	0.42%	0.022%
72	5.603	5.584	5.631	VV	868	10008	0.25%	0.013%
73	5.660	5.631	5.681	VV	192	2929	0.07%	0.004%
74	5.751	5.681	5.792	VV	272	7696	0.19%	0.010%
75	5.819	5.792	5.831	VV	128	1642	0.04%	0.002%
76	5.851	5.831	5.884	VV	281	5654	0.14%	0.007%
77	5.909	5.884	5.924	VV	144	2211	0.05%	0.003%
78	5.945	5.924	5.968	VV	130	2356	0.06%	0.003%
79	5.975	5.968	6.000	VV	118	1260	0.03%	0.002%
80	6.017	6.000	6.028	PV	80	803	0.02%	0.001%
81	6.072	6.028	6.084	VV	132	2407	0.06%	0.003%
82	6.117	6.084	6.150	VV	52321	479000	11.88%	0.622%
83	6.163	6.150	6.184	VV	335	3752	0.09%	0.005%
84	6.204	6.184	6.244	VV	606	8478	0.21%	0.011%
85	6.265	6.244	6.307	VV	353	6041	0.15%	0.008%
86	6.331	6.307	6.356	VV	213	4281	0.11%	0.006%
87	6.383	6.356	6.414	VV	152	4048	0.10%	0.005%
88	6.428	6.414	6.448	VV	141	2272	0.06%	0.003%
89	6.475	6.448	6.514	VV	218	5078	0.13%	0.007%

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90	6.545	6.514	6.614	VV	277616	2679913	66.47%	3.482%
91	6.631	6.614	6.648	VV	310	3372	0.08%	0.004%
92	6.694	6.648	6.714	VV	1046	13943	0.35%	0.018%
93	6.731	6.714	6.751	VV	280	4424	0.11%	0.006%
94	6.769	6.751	6.793	VV	314	4482	0.11%	0.006%
95	6.835	6.793	6.845	VV	154	2289	0.06%	0.003%
96	6.873	6.845	6.893	VV	244	3516	0.09%	0.005%
97	6.916	6.893	6.933	VV	163	2825	0.07%	0.004%
98	6.948	6.933	6.974	VV	193	3449	0.09%	0.004%
99	6.990	6.974	7.021	VV	338	4880	0.12%	0.006%
100	7.043	7.021	7.058	VV	538	7188	0.18%	0.009%
101	7.083	7.058	7.133	VV	1471	24209	0.60%	0.031%
102	7.174	7.133	7.230	VV	44230	434027	10.76%	0.564%
103	7.249	7.230	7.266	VV	711	7742	0.19%	0.010%
104	7.274	7.266	7.291	VV	231	2602	0.06%	0.003%
105	7.331	7.291	7.354	VV	1040	17348	0.43%	0.023%
106	7.365	7.354	7.377	VV	259	3036	0.08%	0.004%
107	7.392	7.377	7.418	VV	263	5109	0.13%	0.007%
108	7.438	7.418	7.451	VV	322	4955	0.12%	0.006%
109	7.470	7.451	7.504	VV	2615	29454	0.73%	0.038%
110	7.564	7.504	7.600	VV	464	12683	0.31%	0.016%
111	7.612	7.600	7.631	VV	144	2263	0.06%	0.003%
112	7.647	7.631	7.684	VV	333	5223	0.13%	0.007%
113	7.735	7.684	7.761	VV	546	9304	0.23%	0.012%
114	7.787	7.761	7.861	VV	33876	331821	8.23%	0.431%
115	7.895	7.861	7.907	VV	361	6368	0.16%	0.008%
116	7.921	7.907	7.940	VV	322	5075	0.13%	0.007%
117	7.950	7.940	7.974	VV	324	4314	0.11%	0.006%
118	7.992	7.974	8.012	VV	317	4772	0.12%	0.006%
119	8.038	8.012	8.074	VV	1942	25598	0.63%	0.033%
120	8.095	8.074	8.143	VV	1670	22528	0.56%	0.029%
121	8.164	8.143	8.181	VV	612	8056	0.20%	0.010%
122	8.199	8.181	8.228	VV	382	7112	0.18%	0.009%
123	8.250	8.228	8.266	VV	690	9171	0.23%	0.012%
124	8.273	8.266	8.285	VV	321	3093	0.08%	0.004%
125	8.302	8.285	8.310	VV	367	3944	0.10%	0.005%
126	8.344	8.310	8.414	VV	334602	3345641	82.98%	4.346%
127	8.459	8.414	8.514	VV	28670	295671	7.33%	0.384%
128	8.535	8.514	8.556	VV	346	6843	0.17%	0.009%
129	8.574	8.556	8.611	VV	453	6803	0.17%	0.009%
130	8.657	8.611	8.727	PV	82315	807180	20.02%	1.049%
131	8.756	8.727	8.783	VV	44367	435504	10.80%	0.566%
132	8.805	8.783	8.820	VV	418	8527	0.21%	0.011%
133	8.834	8.820	8.851	VV	511	7426	0.18%	0.010%
134	8.880	8.851	8.923	VV	1418	26690	0.66%	0.035%
135	8.936	8.923	8.965	VV	321	5890	0.15%	0.008%
136	8.997	8.965	9.013	VV	299	5217	0.13%	0.007%
137	9.030	9.013	9.041	VV	255	3485	0.09%	0.005%
138	9.065	9.041	9.085	VV	1302	16476	0.41%	0.021%
139	9.103	9.085	9.134	VV	626	12248	0.30%	0.016%
140	9.166	9.134	9.210	VV	2551	47455	1.18%	0.062%
141	9.221	9.210	9.237	VV	312	3801	0.09%	0.005%

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142	9.254	9.237	9.276	VV	398	5464	0.14%	0.007%
143	9.301	9.276	9.337	VV	253	5261	0.13%	0.007%
144	9.353	9.337	9.374	VV	183	2578	0.06%	0.003%
145	9.404	9.374	9.438	VV	282	7730	0.19%	0.010%
146	9.466	9.438	9.510	VV	565	12366	0.31%	0.016%
147	9.539	9.510	9.571	VV	21042	220923	5.48%	0.287%
148	9.585	9.571	9.601	VV	686	8265	0.20%	0.011%
149	9.624	9.601	9.648	VV	408	6695	0.17%	0.009%
150	9.677	9.648	9.702	VV	577	10830	0.27%	0.014%
151	9.725	9.702	9.743	VV	1997	21757	0.54%	0.028%
152	9.755	9.743	9.776	VV	699	7654	0.19%	0.010%
153	9.818	9.776	9.846	VV	682	9664	0.24%	0.013%
154	9.865	9.846	9.910	VV	405	9430	0.23%	0.012%
155	9.947	9.910	10.000	VV	356383	3858558	95.70%	5.013%
156	10.043	10.000	10.103	VV	302	9699	0.24%	0.013%
157	10.116	10.103	10.202	VV	110	2455	0.06%	0.003%
158	10.228	10.202	10.245	PV	137	1335	0.03%	0.002%
159	10.290	10.245	10.304	VV	248	4977	0.12%	0.006%
160	10.336	10.304	10.360	VV	1036	16013	0.40%	0.021%
161	10.381	10.360	10.399	VV	382	5788	0.14%	0.008%
162	10.422	10.399	10.452	VV	422	6998	0.17%	0.009%
163	10.479	10.452	10.514	VV	261	4956	0.12%	0.006%
164	10.548	10.514	10.575	VV	253	6555	0.16%	0.009%
165	10.587	10.575	10.596	VV	351	3201	0.08%	0.004%
166	10.616	10.596	10.648	VV	388	8454	0.21%	0.011%
167	10.683	10.648	10.715	VV	2678	36063	0.89%	0.047%
168	10.757	10.715	10.790	VV	2106	51184	1.27%	0.066%
169	10.815	10.790	10.844	VV	536	10914	0.27%	0.014%
170	10.862	10.844	10.886	VV	223	4204	0.10%	0.005%
171	10.906	10.886	10.918	VV	296	4277	0.11%	0.006%
172	10.943	10.918	10.979	VV	18986	202112	5.01%	0.263%
173	11.017	10.979	11.045	VV	19707	211345	5.24%	0.275%
174	11.080	11.045	11.128	VV	399	15880	0.39%	0.021%
175	11.140	11.128	11.170	VV	339	5272	0.13%	0.007%
176	11.192	11.170	11.229	VV	1172	13783	0.34%	0.018%
177	11.242	11.229	11.274	PV	283	2239	0.06%	0.003%
178	11.318	11.274	11.350	VV	961	14367	0.36%	0.019%
179	11.390	11.350	11.448	VV	352127	3942573	97.79%	5.122%
180	11.480	11.448	11.524	VV	871	14493	0.36%	0.019%
181	11.545	11.524	11.567	PV	242	2719	0.07%	0.004%
182	11.589	11.567	11.603	PV	108	1364	0.03%	0.002%
183	11.647	11.603	11.660	VV	108	2891	0.07%	0.004%
184	11.712	11.660	11.764	VV	12128	137430	3.41%	0.179%
185	11.781	11.764	11.806	VV	550	8341	0.21%	0.011%
186	11.842	11.806	11.854	VV	373	6703	0.17%	0.009%
187	11.871	11.854	11.894	VV	365	6468	0.16%	0.008%
188	11.900	11.894	11.918	VV	245	2451	0.06%	0.003%
189	11.938	11.918	11.961	VV	184	3948	0.10%	0.005%
190	11.992	11.961	12.004	VV	209	3910	0.10%	0.005%
191	12.058	12.004	12.091	VV	2806	45745	1.13%	0.059%
192	12.110	12.091	12.123	VV	334	4522	0.11%	0.006%
193	12.153	12.123	12.177	VV	512	8793	0.22%	0.011%
194	12.211	12.177	12.240	VV	233	6770	0.17%	0.009%

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195	12.280	12.240	12.309	VV	503	11665	0.29%	0.015%
196	12.353	12.309	12.374	VV	618	14923	0.37%	0.019%
197	12.395	12.374	12.411	VV	711	9526	0.24%	0.012%
198	12.434	12.411	12.458	VV	452	10421	0.26%	0.014%
199	12.471	12.458	12.482	VV	506	6526	0.16%	0.008%
200	12.489	12.482	12.499	VV	443	4237	0.11%	0.006%
201	12.524	12.499	12.596	VV	1240	36537	0.91%	0.047%
202	12.638	12.596	12.663	VV	866	16037	0.40%	0.021%
203	12.702	12.663	12.736	VV	349154	4031875	100.00%	5.238%
204	12.763	12.736	12.806	VV	14757	167684	4.16%	0.218%
205	12.818	12.806	12.886	VV	304	8295	0.21%	0.011%
206	12.909	12.886	12.927	VV	174	2231	0.06%	0.003%
207	12.952	12.927	12.984	VV	619	11394	0.28%	0.015%
208	12.990	12.984	13.007	VV	257	2674	0.07%	0.003%
209	13.022	13.007	13.032	VV	195	2416	0.06%	0.003%
210	13.062	13.032	13.108	VV	18114	204267	5.07%	0.265%
211	13.148	13.108	13.183	VV	319006	3765651	93.40%	4.892%
212	13.197	13.183	13.231	VV	483	9465	0.23%	0.012%
213	13.253	13.231	13.275	VV	381	8636	0.21%	0.011%
214	13.315	13.275	13.349	VV	326980	3870507	96.00%	5.028%
215	13.363	13.349	13.382	VV	509	8061	0.20%	0.010%
216	13.390	13.382	13.411	VV	326	5097	0.13%	0.007%
217	13.420	13.411	13.464	VV	308	6801	0.17%	0.009%
218	13.489	13.464	13.500	VV	292	4981	0.12%	0.006%
219	13.534	13.500	13.565	VV	478	14172	0.35%	0.018%
220	13.590	13.565	13.609	VV	461	9741	0.24%	0.013%
221	13.658	13.609	13.671	VV	492	13207	0.33%	0.017%
222	13.690	13.671	13.711	VV	695	11651	0.29%	0.015%
223	13.742	13.711	13.780	VV	1064	23403	0.58%	0.030%
224	13.804	13.780	13.823	VV	437	8920	0.22%	0.012%
225	13.846	13.823	13.863	VV	878	14042	0.35%	0.018%
226	13.901	13.863	13.948	VV	312402	3847462	95.43%	4.998%
227	13.959	13.948	14.021	VV	515	14777	0.37%	0.019%
228	14.038	14.021	14.069	VV	314	7487	0.19%	0.010%
229	14.125	14.069	14.165	VV	594	20883	0.52%	0.027%
230	14.185	14.165	14.209	VV	352	7843	0.19%	0.010%
231	14.227	14.209	14.248	VV	313	6674	0.17%	0.009%
232	14.266	14.248	14.275	VV	338	4881	0.12%	0.006%
233	14.333	14.275	14.394	VV	1469	38899	0.96%	0.051%
234	14.420	14.394	14.436	VV	530	9229	0.23%	0.012%
235	14.460	14.436	14.485	VV	1625	23417	0.58%	0.030%
236	14.534	14.485	14.551	VV	357	11723	0.29%	0.015%
237	14.561	14.551	14.578	VV	416	5245	0.13%	0.007%
238	14.590	14.578	14.618	VV	352	6526	0.16%	0.008%
239	14.626	14.618	14.646	VV	325	4446	0.11%	0.006%
240	14.666	14.646	14.698	VV	416	9292	0.23%	0.012%
241	14.732	14.698	14.778	VV	466	15641	0.39%	0.020%
242	14.787	14.778	14.800	VV	290	3404	0.08%	0.004%
243	14.818	14.800	14.827	VV	335	4721	0.12%	0.006%
244	14.859	14.827	14.884	VV	470	12161	0.30%	0.016%
245	14.891	14.884	14.904	VV	270	2660	0.07%	0.003%
246	14.940	14.904	14.961	VV	9430	116493	2.89%	0.151%

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247	15.006	14.961	15.089	VV	297561	3936236	97.63%	5.114%
248	15.105	15.089	15.126	VV	216	2863	0.07%	0.004%
249	15.141	15.126	15.151	VV	131	1328	0.03%	0.002%
250	15.158	15.151	15.171	VV	73	785	0.02%	0.001%
251	15.192	15.171	15.234	VV	217	5802	0.14%	0.008%
252	15.248	15.234	15.271	VV	237	3199	0.08%	0.004%
253	15.279	15.271	15.298	VV	222	2246	0.06%	0.003%
254	15.344	15.298	15.360	VV	323	7326	0.18%	0.010%
255	15.383	15.360	15.418	VV	309	5492	0.14%	0.007%
256	15.435	15.418	15.471	VV	266	5245	0.13%	0.007%
257	15.482	15.471	15.494	VV	147	1629	0.04%	0.002%
258	15.524	15.494	15.600	VV	1792	30885	0.77%	0.040%
259	15.618	15.600	15.652	VV	170	2989	0.07%	0.004%
260	15.671	15.652	15.681	VV	148	1481	0.04%	0.002%
261	15.704	15.681	15.721	VV	256	3651	0.09%	0.005%
262	15.732	15.721	15.742	VV	172	1868	0.05%	0.002%
263	15.758	15.742	15.778	VV	236	3437	0.09%	0.004%
264	15.793	15.778	15.814	VV	199	3041	0.08%	0.004%
265	15.846	15.814	15.881	VV	283	6745	0.17%	0.009%
266	15.898	15.881	15.946	VV	199	5382	0.13%	0.007%
267	16.028	15.946	16.117	VV	285885	3786154	93.91%	4.919%
268	16.127	16.117	16.147	VV	172	1224	0.03%	0.002%
269	16.199	16.147	16.208	PV	286	4815	0.12%	0.006%
270	16.251	16.208	16.303	VV	349	10512	0.26%	0.014%
271	16.336	16.303	16.360	VV	390	6946	0.17%	0.009%
272	16.388	16.360	16.431	VV	274	8253	0.20%	0.011%
273	16.444	16.431	16.458	VV	114	1523	0.04%	0.002%
274	16.497	16.458	16.513	VV	7862	110118	2.73%	0.143%
275	16.527	16.513	16.574	VV	7824	101995	2.53%	0.133%
276	16.585	16.574	16.592	VV	256	2261	0.06%	0.003%
277	16.673	16.592	16.710	VV	568	25886	0.64%	0.034%
278	16.740	16.710	16.792	VV	458	17298	0.43%	0.022%
279	16.818	16.792	16.834	VV	413	8821	0.22%	0.011%
280	16.878	16.834	16.912	VV	7673	101774	2.52%	0.132%
281	16.980	16.912	17.049	VV	276472	3771867	93.55%	4.900%
282	17.094	17.049	17.113	VV	470	14156	0.35%	0.018%
283	17.124	17.113	17.153	VV	463	7397	0.18%	0.010%
284	17.233	17.153	17.274	VV	747	29960	0.74%	0.039%
285	17.307	17.274	17.352	VV	810	20403	0.51%	0.027%
286	17.427	17.352	17.454	VV	3022	58362	1.45%	0.076%
287	17.468	17.454	17.478	VV	364	4990	0.12%	0.006%
288	17.484	17.478	17.504	VV	376	3884	0.10%	0.005%
289	17.522	17.504	17.531	VV	318	4214	0.10%	0.005%
290	17.558	17.531	17.589	VV	729	17021	0.42%	0.022%
291	17.607	17.589	17.624	VV	276	4955	0.12%	0.006%
292	17.639	17.624	17.655	VV	381	5165	0.13%	0.007%
293	17.664	17.655	17.684	VV	272	3705	0.09%	0.005%
294	17.757	17.684	17.798	VV	3242	60993	1.51%	0.079%
295	17.869	17.798	17.908	VV	273746	3826952	94.92%	4.972%
296	17.921	17.908	17.938	VV	370	4790	0.12%	0.006%
297	17.959	17.938	17.980	VV	246	4855	0.12%	0.006%
298	18.028	17.980	18.110	VV	1329	37625	0.93%	0.049%
299	18.131	18.110	18.171	VV	324	7882	0.20%	0.010%

rteres

300	18.185	18.171	18.198	VV	240	3045	0.08%	0.004%
301	18.205	18.198	18.211	VV	226	1660	0.04%	0.002%
302	18.247	18.211	18.266	VV	5742	75148	1.86%	0.098%
303	18.288	18.266	18.338	VV	9524	129674	3.22%	0.168%
304	18.393	18.338	18.451	PV	1210	26975	0.67%	0.035%
305	18.502	18.451	18.531	VV	5280	70402	1.75%	0.091%
306	18.548	18.531	18.581	VV	433	7925	0.20%	0.010%
307	18.590	18.581	18.624	VV	281	4584	0.11%	0.006%
308	18.702	18.624	18.755	PV	255858	3793436	94.09%	4.928%
309	18.821	18.755	18.844	PV	672	12608	0.31%	0.016%
310	18.871	18.844	18.928	VV	586	14656	0.36%	0.019%
311	18.952	18.928	18.971	VV	340	5952	0.15%	0.008%
312	18.999	18.971	19.028	VV	270	6140	0.15%	0.008%
313	19.098	19.028	19.131	VV	4941	77222	1.92%	0.100%
314	19.148	19.131	19.191	VV	563	10119	0.25%	0.013%
315	19.220	19.191	19.258	VV	459	11316	0.28%	0.015%
316	19.277	19.258	19.290	VV	367	5236	0.13%	0.007%
317	19.301	19.290	19.308	VV	408	3629	0.09%	0.005%
318	19.315	19.308	19.321	VV	395	2795	0.07%	0.004%
319	19.331	19.321	19.374	VV	438	12590	0.31%	0.016%
320	19.391	19.374	19.404	VV	476	7905	0.20%	0.010%
321	19.418	19.404	19.441	VV	511	10243	0.25%	0.013%
322	19.488	19.441	19.558	VV	258286	3811274	94.53%	4.951%
323	19.634	19.558	19.659	VV	903	38183	0.95%	0.050%
324	19.665	19.659	19.672	VV	720	5541	0.14%	0.007%
325	19.725	19.672	19.757	VV	974	40354	1.00%	0.052%
326	19.776	19.757	19.820	VV	1016	33169	0.82%	0.043%
327	19.860	19.820	19.894	VV	2517	65771	1.63%	0.085%
328	19.939	19.894	19.943	VV	1153	31234	0.77%	0.041%
329	19.963	19.943	20.003	VV	1214	42493	1.05%	0.055%
330	20.041	20.003	20.068	VV	1457	51452	1.28%	0.067%
331	20.132	20.068	20.174	VV	2144	107784	2.67%	0.140%
332	20.229	20.174	20.283	VV	249332	3796257	94.16%	4.932%
333	20.315	20.283	20.333	VV	2004	57913	1.44%	0.075%
334	20.380	20.333	20.431	VV	2162	118184	2.93%	0.154%
335	20.446	20.431	20.471	VV	2130	48335	1.20%	0.063%
336	20.586	20.471	20.690	VV	5487	420313	10.42%	0.546%
337	20.738	20.690	20.761	VV	2032	80230	1.99%	0.104%
338	20.780	20.761	20.834	VV	1904	78175	1.94%	0.102%
339	20.854	20.834	20.943	VV	1715	99814	2.48%	0.130%
340	21.005	20.943	21.081	VV	202377	3797506	94.19%	4.933%
341	21.104	21.081	21.118	VV	1435	30406	0.75%	0.040%
342	21.128	21.118	21.202	VV	1384	63315	1.57%	0.082%
343	21.216	21.202	21.230	VV	1215	19720	0.49%	0.026%
344	21.260	21.230	21.308	VV	1175	51710	1.28%	0.067%
345	21.319	21.308	21.341	VV	1020	19071	0.47%	0.025%
346	21.352	21.341	21.412	VV	973	38832	0.96%	0.050%
347	21.461	21.412	21.547	VV	1517	78402	1.94%	0.102%
348	21.556	21.547	21.567	VV	771	9274	0.23%	0.012%
349	21.578	21.567	21.588	VV	808	9096	0.23%	0.012%
350	21.617	21.588	21.641	VV	799	23376	0.58%	0.030%
351	21.682	21.641	21.708	VV	753	27949	0.69%	0.036%

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352	21.718	21.708	21.780	VV	725	25506	0.63%	0.033%
353	21.795	21.780	21.824	VV	572	12773	0.32%	0.017%
354	21.847	21.824	21.907	VV	500	18874	0.47%	0.025%
355	21.986	21.907	22.116	VV	134811	3591444	89.08%	4.666%
356	22.124	22.116	22.142	VV	224	3205	0.08%	0.004%
357	22.148	22.142	22.161	VV	222	2095	0.05%	0.003%
358	22.179	22.161	22.238	VV	198	5979	0.15%	0.008%
359	22.245	22.238	22.298	VV	127	2674	0.07%	0.003%
			Sum of corrected areas:			76973876		

Aliphatic EPH 040925.M Fri Apr 11 04:59:20 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC040925AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC041025AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC041125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1746-05DL	FC068547.D	1-chlorooctadecane (SURR)	yogesh	4/11/2025 7:46:04 AM	mohammad	4/14/2025 12:39:51	Peak Integrated by Software
Q1760-05MS	FC068555.D	n-Nonane (C9)	yogesh	4/11/2025 7:46:07 AM	mohammad	4/14/2025 12:39:51	Peak Integrated by Software
Q1760-05MSD	FC068556.D	n-Decane (C10)	yogesh	4/11/2025 7:46:07 AM	mohammad	4/14/2025 12:39:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD040725AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FD049232.D	Bnezo[k]fluoranthene (C30.14)	yogesh	4/8/2025 7:46:50 AM	mohammad	4/9/2025 2:58:56	Peak Integrated by Software
100 PPM AROMATIC HC	FD049232.D	Dibenz[a,h]anthracene (C30.36)	yogesh	4/8/2025 7:46:50 AM	mohammad	4/9/2025 2:58:56	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD040925AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FD041025AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM		
SubDirectory	FC040925AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068513.D	08 Apr 2025 13:05	YP/AJ	Ok
2	I.BLK	FC068514.D	08 Apr 2025 13:42	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068515.D	08 Apr 2025 14:19	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068516.D	08 Apr 2025 14:56	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068517.D	08 Apr 2025 15:34	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068518.D	08 Apr 2025 16:12	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068519.D	08 Apr 2025 16:48	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068520.D	08 Apr 2025 17:26	YP/AJ	Ok
9	I.BLK	FC068521.D	08 Apr 2025 18:41	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068522.D	08 Apr 2025 19:18	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041025AL

Review By	yogesh	Review On	4/9/2025 11:49:12 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:53 AM		
SubDirectory	FC041025AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068523.D	09 Apr 2025 08:00	YP/AJ	Ok
2	I.BLK	FC068524.D	09 Apr 2025 11:34	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068525.D	09 Apr 2025 12:11	YP/AJ	Ok
4	PB167528BL	FC068526.D	09 Apr 2025 14:47	YP/AJ	Ok
5	PB167528BS	FC068527.D	09 Apr 2025 15:24	YP/AJ	Ok
6	PB167528BSD	FC068528.D	09 Apr 2025 16:01	YP/AJ	Ok
7	Q1752-01	FC068529.D	09 Apr 2025 16:38	YP/AJ	Ok
8	Q1752-01D	FC068530.D	09 Apr 2025 17:16	YP/AJ	Ok
9	Q1752-01MS	FC068531.D	09 Apr 2025 17:54	YP/AJ	Ok
10	Q1752-01MSD	FC068532.D	09 Apr 2025 18:31	YP/AJ	Ok
11	Q1752-03	FC068533.D	09 Apr 2025 19:08	YP/AJ	Ok
12	I.BLK	FC068534.D	09 Apr 2025 20:23	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC068535.D	09 Apr 2025 21:00	YP/AJ	Ok
14	PB167524BL	FC068536.D	09 Apr 2025 22:13	YP/AJ	Ok
15	PB167524BS	FC068537.D	09 Apr 2025 22:50	YP/AJ	Ok
16	PB167524BSD	FC068538.D	09 Apr 2025 23:27	YP/AJ	Ok
17	Q1746-07	FC068539.D	10 Apr 2025 00:04	YP/AJ	Ok
18	Q1746-06	FC068540.D	10 Apr 2025 00:41	YP/AJ	Ok
19	Q1746-05	FC068541.D	10 Apr 2025 01:18	YP/AJ	Dilution
20	I.BLK	FC068542.D	10 Apr 2025 02:32	YP/AJ	Ok
21	20 PPM ALIPHATIC HC STD	FC068543.D	10 Apr 2025 03:08	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068544.D	10 Apr 2025 06:44	YP/AJ	Ok
2	I.BLK	FC068545.D	10 Apr 2025 07:20	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068546.D	10 Apr 2025 07:56	YP/AJ	Ok
4	Q1746-05DL	FC068547.D	10 Apr 2025 08:48	YP/AJ	Ok,M
5	I.BLK	FC068548.D	10 Apr 2025 10:02	YP/AJ	Ok
6	20 PPM ALIPHATIC HC STD	FC068549.D	10 Apr 2025 11:16	YP/AJ	Ok
7	PB167545BL	FC068550.D	10 Apr 2025 13:35	YP/AJ	Ok
8	PB167545BS	FC068551.D	10 Apr 2025 14:10	YP/AJ	Ok
9	PB167545BSD	FC068552.D	10 Apr 2025 14:48	YP/AJ	Ok
10	Q1760-05	FC068553.D	10 Apr 2025 15:25	YP/AJ	Dilution
11	Q1760-05D	FC068554.D	10 Apr 2025 16:01	YP/AJ	Ok
12	Q1760-05MS	FC068555.D	10 Apr 2025 16:38	YP/AJ	Ok,M
13	Q1760-05MSD	FC068556.D	10 Apr 2025 17:15	YP/AJ	Ok,M
14	Q1760-06	FC068557.D	10 Apr 2025 17:53	YP/AJ	Ok
15	I.BLK	FC068558.D	10 Apr 2025 19:07	YP/AJ	Ok
16	20 PPM ALIPHATIC HC STD	FC068559.D	10 Apr 2025 19:45	YP/AJ	Ok
17	PB167513BL	FC068560.D	10 Apr 2025 21:36	YP/AJ	Ok
18	PB167513BS	FC068561.D	10 Apr 2025 22:14	YP/AJ	Ok
19	PB167513BSD	FC068562.D	10 Apr 2025 22:51	YP/AJ	Ok
20	Q1744-01	FC068563.D	10 Apr 2025 23:28	YP/AJ	Ok
21	Q1744-03	FC068564.D	11 Apr 2025 00:05	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1746-01	FC068565.D	11 Apr 2025 00:41	YP/AJ	Ok
23	Q1746-01D	FC068566.D	11 Apr 2025 01:18	YP/AJ	Ok
24	Q1746-01MS	FC068567.D	11 Apr 2025 01:55	YP/AJ	Ok
25	Q1746-01MSD	FC068568.D	11 Apr 2025 02:32	YP/AJ	Ok
26	Q1746-03	FC068569.D	11 Apr 2025 03:09	YP/AJ	Ok
27	I.BLK	FC068570.D	11 Apr 2025 03:46	YP/AJ	Ok
28	20 PPM ALIPHATIC HC STD	FC068571.D	11 Apr 2025 04:22	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD040725AR

Review By	yogesh	Review On	4/7/2025 3:22:24 PM		
Supervise By	mohammad	Supervise On	4/9/2025 2:58:56 AM		
SubDirectory	FD040725AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049230.D	07 Apr 2025 15:00	YP/AJ	Ok
2	I.BLK	FD049231.D	07 Apr 2025 15:38	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049232.D	07 Apr 2025 16:15	YP/AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FD049233.D	07 Apr 2025 16:52	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049234.D	07 Apr 2025 17:30	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049235.D	07 Apr 2025 18:08	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049236.D	07 Apr 2025 18:45	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049237.D	07 Apr 2025 19:23	YP/AJ	Ok
9	I.BLK	FD049238.D	07 Apr 2025 20:37	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049239.D	07 Apr 2025 21:15	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD040925AR

Review By	yogesh	Review On	4/9/2025 11:50:11 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:39 AM		
SubDirectory	FD040925AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049255.D	09 Apr 2025 08:00	YP/AJ	Ok
2	I.BLK	FD049256.D	09 Apr 2025 11:34	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049257.D	09 Apr 2025 12:11	YP/AJ	Ok
4	PB167524BL	FD049258.D	09 Apr 2025 16:38	YP/AJ	Ok
5	PB167524BS	FD049259.D	09 Apr 2025 17:16	YP/AJ	Ok
6	PB167524BSD	FD049260.D	09 Apr 2025 17:54	YP/AJ	Ok
7	Q1746-07	FD049261.D	09 Apr 2025 18:31	YP/AJ	Ok
8	Q1746-06	FD049262.D	09 Apr 2025 19:08	YP/AJ	Ok
9	Q1746-05	FD049263.D	09 Apr 2025 19:45	YP/AJ	Ok
10	I.BLK	FD049264.D	09 Apr 2025 21:00	YP/AJ	Ok
11	20 PPM AROMATIC HC STD	FD049265.D	09 Apr 2025 21:37	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD041025AR

Review By	yogesh	Review On	4/10/2025 1:50:11 PM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:36 AM		
SubDirectory	FD041025AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049266.D	10 Apr 2025 06:44	YP/AJ	Ok
2	I.BLK	FD049267.D	10 Apr 2025 13:35	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049268.D	10 Apr 2025 14:10	YP/AJ	Ok
4	PB167513BL	FD049269.D	10 Apr 2025 14:48	YP/AJ	Ok
5	PB167513BS	FD049270.D	10 Apr 2025 15:25	YP/AJ	Ok
6	PB167513BSD	FD049271.D	10 Apr 2025 16:01	YP/AJ	Ok
7	Q1744-01	FD049272.D	10 Apr 2025 16:38	YP/AJ	Ok
8	Q1744-03	FD049273.D	10 Apr 2025 17:15	YP/AJ	Ok
9	Q1746-01	FD049274.D	10 Apr 2025 17:53	YP/AJ	Ok
10	Q1746-01D	FD049275.D	10 Apr 2025 18:31	YP/AJ	Ok
11	Q1746-01MS	FD049276.D	10 Apr 2025 19:07	YP/AJ	Ok
12	Q1746-01MSD	FD049277.D	10 Apr 2025 19:45	YP/AJ	Ok
13	Q1746-03	FD049278.D	10 Apr 2025 20:21	YP/AJ	Ok
14	I.BLK	FD049279.D	10 Apr 2025 21:00	YP/AJ	Ok
15	20 PPM AROMATIC HC STD	FD049280.D	10 Apr 2025 21:36	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM		
SubDirectory	FC040925AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068513.D	08 Apr 2025 13:05		YP/AJ	Ok
2	I.BLK	I.BLK	FC068514.D	08 Apr 2025 13:42		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068515.D	08 Apr 2025 14:19		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068516.D	08 Apr 2025 14:56		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068517.D	08 Apr 2025 15:34		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068518.D	08 Apr 2025 16:12		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068519.D	08 Apr 2025 16:48		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068520.D	08 Apr 2025 17:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068521.D	08 Apr 2025 18:41		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068522.D	08 Apr 2025 19:18		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041025AL

Review By	yogesh	Review On	4/9/2025 11:49:12 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:53 AM		
SubDirectory	FC041025AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068523.D	09 Apr 2025 08:00		YP/AJ	Ok
2	I.BLK	I.BLK	FC068524.D	09 Apr 2025 11:34		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068525.D	09 Apr 2025 12:11		YP/AJ	Ok
4	PB167528BL	PB167528BL	FC068526.D	09 Apr 2025 14:47		YP/AJ	Ok
5	PB167528BS	PB167528BS	FC068527.D	09 Apr 2025 15:24		YP/AJ	Ok
6	PB167528BSD	PB167528BSD	FC068528.D	09 Apr 2025 16:01		YP/AJ	Ok
7	Q1752-01	TP-1	FC068529.D	09 Apr 2025 16:38		YP/AJ	Ok
8	Q1752-01D	Q1752-01D	FC068530.D	09 Apr 2025 17:16		YP/AJ	Ok
9	Q1752-01MS	TP-1MS	FC068531.D	09 Apr 2025 17:54	FC068529.D	YP/AJ	Ok
10	Q1752-01MSD	TP-1MSD	FC068532.D	09 Apr 2025 18:31	FC068529.D!FC068531.D	YP/AJ	Ok
11	Q1752-03	TP-2	FC068533.D	09 Apr 2025 19:08		YP/AJ	Ok
12	I.BLK	I.BLK	FC068534.D	09 Apr 2025 20:23		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068535.D	09 Apr 2025 21:00		YP/AJ	Ok
14	PB167524BL	PB167524BL	FC068536.D	09 Apr 2025 22:13		YP/AJ	Ok
15	PB167524BS	PB167524BS	FC068537.D	09 Apr 2025 22:50	PB167524BS- naphthalene break down - 4.92, 2-methylnephthalene break down - 4.63	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041025AL

Review By	yogesh	Review On	4/9/2025 11:49:12 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:53 AM		
SubDirectory	FC041025AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

16	PB167524BSD	PB167524BSD	FC068538.D	09 Apr 2025 23:27	PB167524BSD- naphthalene break down - 4.96, 2-methylnephthalene break down - 4.60	YP/AJ	Ok
17	Q1746-07	EB-2025-4-7	FC068539.D	10 Apr 2025 00:04		YP/AJ	Ok
18	Q1746-06	B-149-GW01	FC068540.D	10 Apr 2025 00:41		YP/AJ	Ok
19	Q1746-05	B-158-GW01	FC068541.D	10 Apr 2025 01:18	need 10x dilution	YP/AJ	Dilution
20	I.BLK	I.BLK	FC068542.D	10 Apr 2025 02:32		YP/AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068543.D	10 Apr 2025 03:08		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068544.D	10 Apr 2025 06:44		YP/AJ	Ok
2	I.BLK	I.BLK	FC068545.D	10 Apr 2025 07:20		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068546.D	10 Apr 2025 07:56		YP/AJ	Ok
4	Q1746-05DL	B-158-GW01DL	FC068547.D	10 Apr 2025 08:48		YP/AJ	Ok,M
5	I.BLK	I.BLK	FC068548.D	10 Apr 2025 10:02		YP/AJ	Ok
6	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068549.D	10 Apr 2025 11:16		YP/AJ	Ok
7	PB167545BL	PB167545BL	FC068550.D	10 Apr 2025 13:35		YP/AJ	Ok
8	PB167545BS	PB167545BS	FC068551.D	10 Apr 2025 14:10		YP/AJ	Ok
9	PB167545BSD	PB167545BSD	FC068552.D	10 Apr 2025 14:48		YP/AJ	Ok
10	Q1760-05	TP-15	FC068553.D	10 Apr 2025 15:25	need 5x dilution	YP/AJ	Dilution
11	Q1760-05D	Q1760-05D	FC068554.D	10 Apr 2025 16:01		YP/AJ	Ok
12	Q1760-05MS	TP-15MS	FC068555.D	10 Apr 2025 16:38	FC068553.D	YP/AJ	Ok,M
13	Q1760-05MSD	TP-15MSD	FC068556.D	10 Apr 2025 17:15	FC068553.D!FC068555.D	YP/AJ	Ok,M
14	Q1760-06	TP-15-EPH	FC068557.D	10 Apr 2025 17:53		YP/AJ	Ok
15	I.BLK	I.BLK	FC068558.D	10 Apr 2025 19:07		YP/AJ	Ok
16	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068559.D	10 Apr 2025 19:45		YP/AJ	Ok
17	PB167513BL	PB167513BL	FC068560.D	10 Apr 2025 21:36		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	PB167513BS	PB167513BS	FC068561.D	10 Apr 2025 22:14	naphthalene break down - 0.189, 2-methylnephthalene break down - 0.408	YP/AJ	Ok
19	PB167513BSD	PB167513BSD	FC068562.D	10 Apr 2025 22:51	naphthalene break down - 0.283, 2-methylnephthalene break down - 0.335	YP/AJ	Ok
20	Q1744-01	B-158-SB01	FC068563.D	10 Apr 2025 23:28		YP/AJ	Ok
21	Q1744-03	B-158-SB02	FC068564.D	11 Apr 2025 00:05		YP/AJ	Ok
22	Q1746-01	B-149-SB01	FC068565.D	11 Apr 2025 00:41		YP/AJ	Ok
23	Q1746-01D	Q1746-01D	FC068566.D	11 Apr 2025 01:18		YP/AJ	Ok
24	Q1746-01MS	B-149-SB01MS	FC068567.D	11 Apr 2025 01:55	FC068565.D	YP/AJ	Ok
25	Q1746-01MSD	B-149-SB01MSD	FC068568.D	11 Apr 2025 02:32	FC068565.D!FC068567.D	YP/AJ	Ok
26	Q1746-03	B-149-SB02	FC068569.D	11 Apr 2025 03:09		YP/AJ	Ok
27	I.BLK	I.BLK	FC068570.D	11 Apr 2025 03:46		YP/AJ	Ok
28	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068571.D	11 Apr 2025 04:22		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD040725AR

Review By	yogesh	Review On	4/7/2025 3:22:24 PM		
Supervise By	mohammad	Supervise On	4/9/2025 2:58:56 AM		
SubDirectory	FD040725AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049230.D	07 Apr 2025 15:00		YP/AJ	Ok
2	I.BLK	I.BLK	FD049231.D	07 Apr 2025 15:38		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049232.D	07 Apr 2025 16:15		YP/AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049233.D	07 Apr 2025 16:52		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049234.D	07 Apr 2025 17:30		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049235.D	07 Apr 2025 18:08		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049236.D	07 Apr 2025 18:45		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049237.D	07 Apr 2025 19:23		YP/AJ	Ok
9	I.BLK	I.BLK	FD049238.D	07 Apr 2025 20:37		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049239.D	07 Apr 2025 21:15		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD040925AR

Review By	yogesh	Review On	4/9/2025 11:50:11 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:39 AM		
SubDirectory	FD040925AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049255.D	09 Apr 2025 08:00		YP/AJ	Ok
2	I.BLK	I.BLK	FD049256.D	09 Apr 2025 11:34		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049257.D	09 Apr 2025 12:11		YP/AJ	Ok
4	PB167524BL	PB167524BL	FD049258.D	09 Apr 2025 16:38		YP/AJ	Ok
5	PB167524BS	PB167524BS	FD049259.D	09 Apr 2025 17:16	PB167524BS- naphthalene break down - 4.92, 2-methylnephthalene break down - 4.63	YP/AJ	Ok
6	PB167524BSD	PB167524BSD	FD049260.D	09 Apr 2025 17:54	PB167524BSD- naphthalene break down - 4.96, 2-methylnephthalene break down - 4.60	YP/AJ	Ok
7	Q1746-07	EB-2025-4-7	FD049261.D	09 Apr 2025 18:31		YP/AJ	Ok
8	Q1746-06	B-149-GW01	FD049262.D	09 Apr 2025 19:08		YP/AJ	Ok
9	Q1746-05	B-158-GW01	FD049263.D	09 Apr 2025 19:45		YP/AJ	Ok
10	I.BLK	I.BLK	FD049264.D	09 Apr 2025 21:00		YP/AJ	Ok
11	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049265.D	09 Apr 2025 21:37		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD041025AR

Review By	yogesh	Review On	4/10/2025 1:50:11 PM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:36 AM		
SubDirectory	FD041025AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049266.D	10 Apr 2025 06:44		YP/AJ	Ok
2	I.BLK	I.BLK	FD049267.D	10 Apr 2025 13:35		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049268.D	10 Apr 2025 14:10		YP/AJ	Ok
4	PB167513BL	PB167513BL	FD049269.D	10 Apr 2025 14:48		YP/AJ	Ok
5	PB167513BS	PB167513BS	FD049270.D	10 Apr 2025 15:25	naphthalene break down - 0.189, 2-methylnephthalene break down - 0.408	YP/AJ	Ok
6	PB167513BSD	PB167513BSD	FD049271.D	10 Apr 2025 16:01	naphthalene break down - 0.283, 2-methylnephthalene break down - 0.335	YP/AJ	Ok
7	Q1744-01	B-158-SB01	FD049272.D	10 Apr 2025 16:38		YP/AJ	Ok
8	Q1744-03	B-158-SB02	FD049273.D	10 Apr 2025 17:15		YP/AJ	Ok
9	Q1746-01	B-149-SB01	FD049274.D	10 Apr 2025 17:53		YP/AJ	Ok
10	Q1746-01D	Q1746-01D	FD049275.D	10 Apr 2025 18:31		YP/AJ	Ok
11	Q1746-01MS	B-149-SB01MS	FD049276.D	10 Apr 2025 19:07	FD049274.D	YP/AJ	Ok
12	Q1746-01MSD	B-149-SB01MSD	FD049277.D	10 Apr 2025 19:45	FD049274.D!FD049276.D	YP/AJ	Ok
13	Q1746-03	B-149-SB02	FD049278.D	10 Apr 2025 20:21		YP/AJ	Ok
14	I.BLK	I.BLK	FD049279.D	10 Apr 2025 21:00		YP/AJ	Ok
15	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049280.D	10 Apr 2025 21:36		YP/AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167513

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/08/2025
Matrix :	Solid			**Extraction Start Time :**	10:10
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/08/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:25
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24432
Fractionation Surrogate	1.0ML	100 PPM	PP24403
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	EP2591
Baked Na2SO4	N/A	EP2599
Sand	N/A	E2865
Hexane	N/A	E3916
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210473.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25	RP (Ent Lab)	Y-P-Pest IP SB
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167513

Analytical Method: MNJDEP-EPH-7

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167513BL	PB167513BL	EPH	30.02	N/A	ritesh	Evelyn	2			U6-1
PB167513BS	PB167513BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB167513BSD	PB167513BSD	EPH	30.01	N/A	ritesh	Evelyn	2			3
Q1744-01	B-158-SB01	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1744-03	B-158-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
Q1746-01	B-149-SB01	EPH	30.02	N/A	ritesh	Evelyn	2	E		6
Q1746-01DUP	B-149-SB01DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		U3-1
Q1746-01MS	B-149-SB01MS	EPH	30.03	N/A	ritesh	Evelyn	2	E		2
Q1746-01MSD	B-149-SB01MSD	EPH	30.06	N/A	ritesh	Evelyn	2	E		3
Q1746-03	B-149-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	F		4

* **Extracts relinquished on the same date as received.**

4/8/25

167713
EDA 10:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1743 **WorkList ID :** 188791 **Department :** Extraction **Date :** 04-08-2025 08:13:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	04/04/2025	NJEPH
Q1740-02	TP-20-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	04/04/2025	NJEPH
Q1742-01	TR-06-040725	Solid	EPH_NF	Cool 4 deg C	PSEG05		04/04/2025	NJEPH
Q1742-02	TR-06-040725-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05		04/04/2025	NJEPH
Q1743-01	TP-16	Solid	EPH_NF	Cool 4 deg C	PSEG03	L33	04/07/2025	NJEPH
Q1743-02	TP-16-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L33	04/07/2025	NJEPH
Q1744-01	B-158-SB01	Solid	EPH	Cool 4 deg C	PORT06	L41	04/05/2025	NJEPH
Q1744-03	B-158-SB02	Solid	EPH	Cool 4 deg C	PORT06	L41	04/05/2025	NJEPH
Q1745-01	IB-6A-WC	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1745-02	IB-6A-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1745-09	IB-6.5-WC	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1745-10	IB-6.5-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1746-01	B-149-SB01	Solid	EPH	Cool 4 deg C	PORT06	L41	04/05/2025	NJEPH
Q1746-03	B-149-SB02	Solid	EPH	Cool 4 deg C	PORT06	L41	04/06/2025	NJEPH
Q1747-01	ARS20-0008	Solid	EPH_NF	Cool 4 deg C	PSEG03	I41	04/07/2025	NJEPH
Q1747-02	ARS20-0008-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	I41	04/07/2025	NJEPH

Date/Time 04/08/25 10:05
Raw Sample Received by: RJ (Sept 04)
Raw Sample Relinquished by: CP SM

Date/Time 04/08/25 10:25
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Sept 04)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167524

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 04/09/2025

Extraction Start Time : 08:20

Extraction End Date : 04/09/2025

Extraction End Time : 16:15

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24432
Fractionation Surrogate	1.0ML	100 PPM	PP24403
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2599
Hexane	N/A	E3916
6N HCL	N/A	EP2569
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 16:20	RP (Ext lab)	Y-P-pest/PCB
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167524

Analytical Method: MNJDEP-EPH-7

Concentration Date: 04/09/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167524BL	PB167524BL	EPH	1000	<2	ritesh	rajesh	2			SEP-01
PB167524BS	PB167524BS	EPH	1000	<2	ritesh	rajesh	2			2
PB167524BSD	PB167524BSD	EPH	1000	<2	ritesh	rajesh	2			3
Q1746-05	B-158-GW01	EPH	980	<2	ritesh	rajesh	2	H		4
Q1746-06	B-149-GW01	EPH	980	<2	ritesh	rajesh	2	H		5
Q1746-07	EB-2025-4-7	EPH	970	<2	ritesh	rajesh	2	I		6

* **Extracts relinquished on the same date as received.**

4/9/25

16T524
8:20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1746E **WorkList ID :** 188824 **Department :** Extraction **Date :** 04-09-2025 08:16:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1746-05	B-158-GW01	Water	EPH	1:1 HCl to pH < 2	PORT06	L41	04/05/2025	NJEPH
Q1746-06	B-149-GW01	Water	EPH	1:1 HCl to pH < 2	PORT06	L41	04/06/2025	NJEPH
Q1746-07	EB-2025-4-7	Water	EPH	1:1 HCl to pH < 2	PORT06	L41	04/07/2025	NJEPH

Date/Time 04/09/25 8:17
Raw Sample Received by: RJ (Lot 7043)
Raw Sample Relinquished by: CR SM

Date/Time 04/09/25 8:40
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RJ (Lot 7043)

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
Q1746-05	**B-158-GW01**	**Water**			**04/05/25**			**04/07/25**
			EPH	NJEPH		04/09/25	04/09/25	
			EPH	NJEPH		04/09/25	04/10/25	
			PCB	8082A		04/08/25	04/08/25	
Q1746-05DL	**B-158-GW01DL**	**Water**			**04/05/25**			**04/07/25**
			EPH	NJEPH		04/09/25	04/10/25	
Q1746-06	**B-149-GW01**	**WATER**			**04/06/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			EPH	NJEPH		04/09/25	04/09/25	
			EPH	NJEPH		04/09/25	04/10/25	
Q1746-07	**EB-2025-4-7**	**WATER**			**04/07/25**			**04/07/25**

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LAB CHRONICLE

PCB	8082A	04/08/25	04/08/25
EPH	NJEPH	04/09/25	04/09/25
EPH	NJEPH	04/09/25	04/10/25

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Hit Summary Sheet
SW-846

SDG No.: Q1746 **Order ID:** Q1746

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**B-149-SB01**							
Q1746-01	B-149-SB01	SOIL	Aluminum	5630		2.52	5.23	mg/Kg
Q1746-01	B-149-SB01	SOIL	Antimony	1.02	J	0.16	2.62	mg/Kg
Q1746-01	B-149-SB01	SOIL	Arsenic	4.37		0.30	1.05	mg/Kg
Q1746-01	B-149-SB01	SOIL	Barium	23.8		0.67	5.23	mg/Kg
Q1746-01	B-149-SB01	SOIL	Beryllium	0.46		0.013	0.31	mg/Kg
Q1746-01	B-149-SB01	SOIL	Calcium	2070		2.93	105	mg/Kg
Q1746-01	B-149-SB01	SOIL	Chromium	12.0		0.057	0.52	mg/Kg
Q1746-01	B-149-SB01	SOIL	Cobalt	11.2		0.061	1.57	mg/Kg
Q1746-01	B-149-SB01	SOIL	Copper	93.3		0.49	1.05	mg/Kg
Q1746-01	B-149-SB01	SOIL	Iron	24800		2.82	5.23	mg/Kg
Q1746-01	B-149-SB01	SOIL	Lead	120		0.16	0.63	mg/Kg
Q1746-01	B-149-SB01	SOIL	Magnesium	2700		3.59	105	mg/Kg
Q1746-01	B-149-SB01	SOIL	Manganese	284		0.074	1.05	mg/Kg
Q1746-01	B-149-SB01	SOIL	Mercury	0.56		0.0080	0.015	mg/Kg
Q1746-01	B-149-SB01	SOIL	Nickel	20.4		0.094	2.09	mg/Kg
Q1746-01	B-149-SB01	SOIL	Potassium	407		30.0	105	mg/Kg
Q1746-01	B-149-SB01	SOIL	Silver	0.69		0.054	0.52	mg/Kg
Q1746-01	B-149-SB01	SOIL	Sodium	135		37.8	105	mg/Kg
Q1746-01	B-149-SB01	SOIL	Thallium	0.92	J	0.46	2.09	mg/Kg
Q1746-01	B-149-SB01	SOIL	Vanadium	27.0		0.28	2.09	mg/Kg
Q1746-01	B-149-SB01	SOIL	Zinc	166		0.12	2.09	mg/Kg
Client ID :	**B-149-SB02**							
Q1746-03	B-149-SB02	SOIL	Aluminum	5920		2.77	5.75	mg/Kg
Q1746-03	B-149-SB02	SOIL	Arsenic	2.57		0.33	1.15	mg/Kg
Q1746-03	B-149-SB02	SOIL	Barium	7.68		0.74	5.75	mg/Kg
Q1746-03	B-149-SB02	SOIL	Beryllium	0.34	J	0.014	0.35	mg/Kg
Q1746-03	B-149-SB02	SOIL	Calcium	628		3.22	115	mg/Kg
Q1746-03	B-149-SB02	SOIL	Chromium	11.9		0.062	0.57	mg/Kg
Q1746-03	B-149-SB02	SOIL	Cobalt	5.12		0.067	1.73	mg/Kg
Q1746-03	B-149-SB02	SOIL	Copper	15.7		0.54	1.15	mg/Kg
Q1746-03	B-149-SB02	SOIL	Iron	11100		3.09	5.75	mg/Kg
Q1746-03	B-149-SB02	SOIL	Lead	5.50		0.17	0.69	mg/Kg
Q1746-03	B-149-SB02	SOIL	Magnesium	2730		3.95	115	mg/Kg
Q1746-03	B-149-SB02	SOIL	Manganese	72.9		0.082	1.15	mg/Kg
Q1746-03	B-149-SB02	SOIL	Nickel	11.1		0.10	2.30	mg/Kg
Q1746-03	B-149-SB02	SOIL	Potassium	796		33.0	115	mg/Kg
Q1746-03	B-149-SB02	SOIL	Silver	0.45	J	0.060	0.57	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1746 **Order ID:** Q1746

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1746-03	B-149-SB02	SOIL	Sodium	137		41.5	115	mg/Kg
Q1746-03	B-149-SB02	SOIL	Vanadium	14.0		0.31	2.30	mg/Kg
Q1746-03	B-149-SB02	SOIL	Zinc	31.0		0.13	2.30	mg/Kg
Client ID : B-158-GW01								
Q1746-05	B-158-GW01	Water	Aluminum	37700		28.3	50.0	ug/L
Q1746-05	B-158-GW01	Water	Arsenic	14.2		3.48	10.0	ug/L
Q1746-05	B-158-GW01	Water	Barium	266		6.28	50.0	ug/L
Q1746-05	B-158-GW01	Water	Beryllium	2.69	J	0.13	3.00	ug/L
Q1746-05	B-158-GW01	Water	Calcium	40300		33.0	1000	ug/L
Q1746-05	B-158-GW01	Water	Chromium	78.9		0.66	5.00	ug/L
Q1746-05	B-158-GW01	Water	Cobalt	19.9		0.50	15.0	ug/L
Q1746-05	B-158-GW01	Water	Copper	106		7.07	10.0	ug/L
Q1746-05	B-158-GW01	Water	Iron	48600		18.5	50.0	ug/L
Q1746-05	B-158-GW01	Water	Lead	79.1		3.51	6.00	ug/L
Q1746-05	B-158-GW01	Water	Magnesium	15200		39.4	1000	ug/L
Q1746-05	B-158-GW01	Water	Manganese	1210		1.46	10.0	ug/L
Q1746-05	B-158-GW01	Water	Mercury	0.20	J	0.076	0.20	ug/L
Q1746-05	B-158-GW01	Water	Nickel	46.3		0.85	20.0	ug/L
Q1746-05	B-158-GW01	Water	Potassium	9010		685	1000	ug/L
Q1746-05	B-158-GW01	Water	Sodium	74800		237	1000	ug/L
Q1746-05	B-158-GW01	Water	Vanadium	99.6		3.06	20.0	ug/L
Q1746-05	B-158-GW01	Water	Zinc	223		1.75	20.0	ug/L
Client ID : B-149-GW01								
Q1746-06	B-149-GW01	Water	Aluminum	77300		28.3	50.0	ug/L
Q1746-06	B-149-GW01	Water	Arsenic	53.3		3.48	10.0	ug/L
Q1746-06	B-149-GW01	Water	Barium	144		6.28	50.0	ug/L
Q1746-06	B-149-GW01	Water	Beryllium	4.92		0.13	3.00	ug/L
Q1746-06	B-149-GW01	Water	Calcium	37000		33.0	1000	ug/L
Q1746-06	B-149-GW01	Water	Chromium	204		0.66	5.00	ug/L
Q1746-06	B-149-GW01	Water	Cobalt	56.1		0.50	15.0	ug/L
Q1746-06	B-149-GW01	Water	Copper	382		7.07	10.0	ug/L
Q1746-06	B-149-GW01	Water	Iron	131000		18.5	50.0	ug/L
Q1746-06	B-149-GW01	Water	Lead	89.6		3.51	6.00	ug/L
Q1746-06	B-149-GW01	Water	Magnesium	38600		39.4	1000	ug/L
Q1746-06	B-149-GW01	Water	Manganese	757		1.46	10.0	ug/L
Q1746-06	B-149-GW01	Water	Mercury	0.078	J	0.076	0.20	ug/L
Q1746-06	B-149-GW01	Water	Nickel	143		0.85	20.0	ug/L
Q1746-06	B-149-GW01	Water	Potassium	36400		685	1000	ug/L
Q1746-06	B-149-GW01	Water	Sodium	143000		237	1000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q1746 **Order ID:** Q1746

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1746-06	B-149-GW01	Water	Vanadium	198		3.06	20.0	ug/L
Q1746-06	B-149-GW01	Water	Zinc	559		1.75	20.0	ug/L
Client ID : EB-2025-4-7								
Q1746-07	EB-2025-4-7	Water	Manganese	3.46	J	1.46	10.0	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5630		1	2.52	5.23	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-36-0	Antimony	1.02	J	1	0.16	2.62	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-38-2	Arsenic	4.37		1	0.30	1.05	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-39-3	Barium	23.8		1	0.67	5.23	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-41-7	Beryllium	0.46	N	1	0.013	0.31	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-43-9	Cadmium	0.017	U	1	0.017	0.31	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-70-2	Calcium	2070		1	2.93	105	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-47-3	Chromium	12.0		1	0.057	0.52	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-48-4	Cobalt	11.2		1	0.061	1.57	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-50-8	Copper	93.3		1	0.49	1.05	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7439-89-6	Iron	24800		1	2.82	5.23	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7439-92-1	Lead	120		1	0.16	0.63	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7439-95-4	Magnesium	2700		1	3.59	105	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7439-96-5	Manganese	284		1	0.074	1.05	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7439-97-6	Mercury	0.56	N*	1	0.0080	0.015	mg/Kg	04/08/25 16:50	04/09/25 12:22	SW7471B	
7440-02-0	Nickel	20.4		1	0.094	2.09	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-09-7	Potassium	407		1	30.0	105	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7782-49-2	Selenium	0.35	U	1	0.35	1.05	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-22-4	Silver	0.69		1	0.054	0.52	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-23-5	Sodium	135		1	37.8	105	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-28-0	Thallium	0.92	J	1	0.46	2.09	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-62-2	Vanadium	27.0		1	0.28	2.09	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050
7440-66-6	Zinc	166		1	0.12	2.09	mg/Kg	04/07/25 14:05	04/10/25 16:17	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5920		1	2.77	5.75	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-36-0	Antimony	0.17	U	1	0.17	2.88	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-38-2	Arsenic	2.57		1	0.33	1.15	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-39-3	Barium	7.68		1	0.74	5.75	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-41-7	Beryllium	0.34	JN	1	0.014	0.35	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-43-9	Cadmium	0.018	U	1	0.018	0.35	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-70-2	Calcium	628		1	3.22	115	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-47-3	Chromium	11.9		1	0.062	0.57	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-48-4	Cobalt	5.12		1	0.067	1.73	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-50-8	Copper	15.7		1	0.54	1.15	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7439-89-6	Iron	11100		1	3.09	5.75	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7439-92-1	Lead	5.50		1	0.17	0.69	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7439-95-4	Magnesium	2730		1	3.95	115	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7439-96-5	Manganese	72.9		1	0.082	1.15	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7439-97-6	Mercury	0.0080	UN*	1	0.0080	0.014	mg/Kg	04/08/25 16:50	04/09/25 12:25	SW7471B	
7440-02-0	Nickel	11.1		1	0.10	2.30	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-09-7	Potassium	796		1	33.0	115	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7782-49-2	Selenium	0.38	U	1	0.38	1.15	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-22-4	Silver	0.45	J	1	0.060	0.57	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-23-5	Sodium	137		1	41.5	115	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-28-0	Thallium	0.51	U	1	0.51	2.30	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-62-2	Vanadium	14.0		1	0.31	2.30	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050
7440-66-6	Zinc	31.0		1	0.13	2.30	mg/Kg	04/07/25 14:05	04/10/25 16:22	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	37700	*	1	28.3	50.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-38-2	Arsenic	14.2		1	3.48	10.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-39-3	Barium	266	N*	1	6.28	50.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-41-7	Beryllium	2.69	J	1	0.13	3.00	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-70-2	Calcium	40300	*	1	33.0	1000	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-47-3	Chromium	78.9	N	1	0.66	5.00	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-48-4	Cobalt	19.9		1	0.50	15.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-50-8	Copper	106	N*	1	7.07	10.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7439-89-6	Iron	48600	*	1	18.5	50.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7439-92-1	Lead	79.1		1	3.51	6.00	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7439-95-4	Magnesium	15200	*	1	39.4	1000	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7439-96-5	Manganese	1210	*	1	1.46	10.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7439-97-6	Mercury	0.20	JN	1	0.076	0.20	ug/L	04/10/25 14:20	04/11/25 10:56	SW7470A	
7440-02-0	Nickel	46.3		1	0.85	20.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-09-7	Potassium	9010	*	1	685	1000	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-23-5	Sodium	74800	*	1	237	1000	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-62-2	Vanadium	99.6	N*	1	3.06	20.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010
7440-66-6	Zinc	223	*	1	1.75	20.0	ug/L	04/08/25 09:40	04/14/25 20:56	SW6010	SW3010

Color Before:	Black	Clarity Before:	Clear	Texture:	
Color After:	Light Brown	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	77300	*	1	28.3	50.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-38-2	Arsenic	53.3		1	3.48	10.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-39-3	Barium	144	N*	1	6.28	50.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-41-7	Beryllium	4.92		1	0.13	3.00	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-70-2	Calcium	37000	*	1	33.0	1000	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-47-3	Chromium	204	N	1	0.66	5.00	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-48-4	Cobalt	56.1		1	0.50	15.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-50-8	Copper	382	N*	1	7.07	10.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7439-89-6	Iron	131000	*	1	18.5	50.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7439-92-1	Lead	89.6		1	3.51	6.00	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7439-95-4	Magnesium	38600	*	1	39.4	1000	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7439-96-5	Manganese	757	*	1	1.46	10.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7439-97-6	Mercury	0.078	JN	1	0.076	0.20	ug/L	04/10/25 14:20	04/11/25 11:05	SW7470A	
7440-02-0	Nickel	143		1	0.85	20.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-09-7	Potassium	36400	*	1	685	1000	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-23-5	Sodium	143000	*	1	237	1000	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-62-2	Vanadium	198	N*	1	3.06	20.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010
7440-66-6	Zinc	559	*	1	1.75	20.0	ug/L	04/08/25 09:40	04/14/25 21:00	SW6010	SW3010

Color Before:	Black	Clarity Before:	Clear	Texture:	
Color After:	Light Brown	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	28.3	U*	1	28.3	50.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-39-3	Barium	6.28	UN*	1	6.28	50.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-70-2	Calcium	33.0	U*	1	33.0	1000	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-47-3	Chromium	0.66	UN	1	0.66	5.00	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-50-8	Copper	7.07	UN*	1	7.07	10.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7439-89-6	Iron	18.5	U*	1	18.5	50.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7439-95-4	Magnesium	39.4	U*	1	39.4	1000	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7439-96-5	Manganese	3.46	J*	1	1.46	10.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7439-97-6	Mercury	0.076	UN	1	0.076	0.20	ug/L	04/10/25 14:20	04/11/25 11:07	SW7470A	
7440-02-0	Nickel	0.85	U	1	0.85	20.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-09-7	Potassium	685	U*	1	685	1000	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-23-5	Sodium	237	U*	1	237	1000	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-62-2	Vanadium	3.06	UN*	1	3.06	20.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010
7440-66-6	Zinc	1.75	U*	1	1.75	20.0	ug/L	04/08/25 09:40	04/14/25 21:25	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB82	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	11:36	LB135354

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB49	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	11:45	LB135354
CCB50	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	12:20	LB135354
CCB51	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	12:48	LB135354
CCB52	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	14:04	LB135354
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	14:21	LB135354

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB84	Mercury	0.20	+/-0.20	U	0.20	CV	04/11/2025	10:05	LB135388

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB59	Mercury	0.20	+/-0.20	U	0.20	CV	04/11/2025	10:09	LB135388
CCB60	Mercury	0.20	+/-0.20	U	0.20	CV	04/11/2025	10:39	LB135388
CCB61	Mercury	0.20	+/-0.20	U	0.20	CV	04/11/2025	11:16	LB135388
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	04/11/2025	11:43	LB135388

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	10:29	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	10:29	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	10:29	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	10:29	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	10:29	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	11:21	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	11:21	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	11:21	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	11:21	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	11:21	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
CCB02	Aluminum	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	12:12	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	12:12	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	12:12	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	12:12	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	12:12	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
CCB03	Aluminum	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	13:04	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:04	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:04	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	13:04	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:04	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
CCB04	Aluminum	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	13:55	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:55	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:55	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	13:55	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	13:55	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:55	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	13:55	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	13:55	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	13:55	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
CCB05	Aluminum	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	14:49	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	14:49	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	14:49	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	14:49	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	14:49	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
CCB06	Aluminum	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	15:48	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	15:48	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	15:48	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	15:48	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	15:48	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
CCB07	Aluminum	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	17:00	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	17:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	17:00	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	17:00	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	17:00	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
CCB08	Aluminum	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	18:00	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:00	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	18:00	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:00	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
CCB09	Aluminum	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	18:23	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:23	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:23	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	18:23	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:23	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	18:23	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	18:23	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	18:23	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	18:23	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	04/14/2025	14:05	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	14:05	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:05	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:05	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:05	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	14:05	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	14:05	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	14:05	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:05	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	14:05	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	14:05	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	14:05	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	14:05	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	14:05	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	14:05	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	14:05	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	04/14/2025	14:35	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	14:35	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:35	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:35	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:35	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	14:35	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	14:35	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	14:35	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:35	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	14:35	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	14:35	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	14:35	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	14:35	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	14:35	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	14:35	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	14:35	LB135424
CCB02	Aluminum	100	+/-100	U	100	P	04/14/2025	15:26	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	15:26	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	15:26	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	15:26	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	15:26	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	15:26	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	15:26	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	15:26	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	15:26	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	15:26	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	15:26	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	15:26	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	15:26	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	15:26	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	15:26	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	15:26	LB135424
CCB03	Aluminum	100	+/-100	U	100	P	04/14/2025	16:32	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	16:32	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	16:32	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	16:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	16:32	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	16:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	16:32	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	16:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	16:32	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	16:32	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	16:32	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	16:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	16:32	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	16:32	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	16:32	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	16:32	LB135424
CCB04	Aluminum	100	+/-100	U	100	P	04/14/2025	17:22	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	17:22	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	17:22	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	17:22	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	17:22	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	17:22	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	17:22	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	17:22	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	17:22	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	17:22	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	17:22	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	17:22	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	17:22	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	17:22	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	17:22	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	17:22	LB135424
CCB05	Aluminum	100	+/-100	U	100	P	04/14/2025	18:20	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	18:20	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	18:20	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	18:20	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	18:20	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	18:20	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	18:20	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	18:20	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	18:20	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	18:20	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	18:20	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	18:20	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	18:20	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	18:20	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	18:20	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	18:20	LB135424
CCB06	Aluminum	100	+/-100	U	100	P	04/14/2025	19:11	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	19:11	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	19:11	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	19:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	19:11	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	19:11	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	19:11	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	19:11	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	19:11	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	19:11	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	19:11	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	19:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	19:11	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	19:11	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	19:11	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	19:11	LB135424
CCB07	Aluminum	100	+/-100	U	100	P	04/14/2025	20:01	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	20:01	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:01	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:01	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:01	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	20:01	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	20:01	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	20:01	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:01	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	20:01	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	20:01	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	20:01	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	20:01	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	20:01	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	20:01	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	20:01	LB135424
CCB08	Aluminum	100	+/-100	U	100	P	04/14/2025	20:52	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	20:52	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:52	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:52	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:52	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	20:52	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	20:52	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	20:52	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:52	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	20:52	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	20:52	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	20:52	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	20:52	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	20:52	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	20:52	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	20:52	LB135424
CCB09	Aluminum	100	+/-100	U	100	P	04/14/2025	21:42	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	21:42	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	21:42	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	21:42	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	21:42	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	21:42	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	21:42	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	21:42	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	21:42	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	21:42	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	21:42	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	21:42	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	21:42	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	21:42	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	21:42	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	21:42	LB135424
CCB10	Aluminum	100	+/-100	U	100	P	04/14/2025	22:32	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	22:32	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:32	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:32	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	22:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	22:32	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	22:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:32	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	22:32	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	22:32	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	22:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	22:32	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	22:32	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	22:32	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	22:32	LB135424
CCB11	Aluminum	100	+/-100	U	100	P	04/14/2025	22:44	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	22:44	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:44	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:44	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:44	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	22:44	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	22:44	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	22:44	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:44	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	22:44	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	22:44	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	22:44	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	22:44	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	22:44	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	22:44	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	22:44	LB135424
CCB12	Aluminum	100	+/-100	U	100	P	04/14/2025	23:11	LB135424
	Antimony	50.0	+/-50.0	U	50.0	P	04/14/2025	23:11	LB135424
	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	23:11	LB135424
	Beryllium	6.00	+/-6.00	U	6.00	P	04/14/2025	23:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	23:11	LB135424
	Calcium	2000	+/-2000	U	2000	P	04/14/2025	23:11	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424
	Cobalt	30.0	+/-30.0	U	30.0	P	04/14/2025	23:11	LB135424
	Copper	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424
	Iron	100	+/-100	U	100	P	04/14/2025	23:11	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	23:11	LB135424
	Magnesium	2000	+/-2000	U	2000	P	04/14/2025	23:11	LB135424
	Manganese	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424
	Nickel	40.0	+/-40.0	U	40.0	P	04/14/2025	23:11	LB135424
	Potassium	2000	+/-2000	U	2000	P	04/14/2025	23:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424
	Sodium	2000	+/-2000	U	2000	P	04/14/2025	23:11	LB135424
	Thallium	40.0	+/-40.0	U	40.0	P	04/14/2025	23:11	LB135424
	Vanadium	40.0	+/-40.0	U	40.0	P	04/14/2025	23:11	LB135424
	Zinc	40.0	+/-40.0	U	40.0	P	04/14/2025	23:11	LB135424

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167532BL		**SOLID**		**Batch Number:**	**PB167532**		**Prep Date:**	**04/08/2025**	
	Mercury	0.012	<0.012	U	0.012	CV	04/09/2025	11:58	LB135354

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167569BL		**WATER**		**Batch Number:**	**PB167569**		**Prep Date:**	**04/10/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	04/11/2025	10:35	LB135388

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167490BL		**SOLID**		**Batch Number:**	**PB167490**		**Prep Date:**	**04/07/2025**	
	Aluminum	4.12	<4.12	U	4.12	P	04/10/2025	16:26	LB135373
	Antimony	2.06	<2.06	U	2.06	P	04/10/2025	16:26	LB135373
	Arsenic	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Barium	4.12	<4.12	U	4.12	P	04/10/2025	16:26	LB135373
	Beryllium	0.25	<0.25	U	0.25	P	04/10/2025	16:26	LB135373
	Cadmium	0.25	<0.25	U	0.25	P	04/10/2025	16:26	LB135373
	Calcium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Chromium	0.41	<0.41	U	0.41	P	04/10/2025	16:26	LB135373
	Cobalt	1.23	<1.23	U	1.23	P	04/10/2025	16:26	LB135373
	Copper	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Iron	4.12	<4.12	U	4.12	P	04/10/2025	16:26	LB135373
	Lead	0.49	<0.49	U	0.49	P	04/10/2025	16:26	LB135373
	Magnesium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Manganese	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Nickel	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373
	Potassium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Selenium	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Silver	0.41	<0.41	U	0.41	P	04/10/2025	16:26	LB135373
	Sodium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Thallium	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373
	Vanadium	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373
	Zinc	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167500BL		**WATER**		**Batch Number:**	**PB167500**		**Prep Date:**	**04/08/2025**	
	Aluminum	50.0	<50.0	U	50.0	P	04/14/2025	18:50	LB135424
	Antimony	25.0	<25.0	U	25.0	P	04/14/2025	18:50	LB135424
	Arsenic	10.0	<10.0	U	10.0	P	04/14/2025	18:50	LB135424
	Barium	50.0	<50.0	U	50.0	P	04/14/2025	18:50	LB135424
	Beryllium	3.00	<3.00	U	3.00	P	04/14/2025	18:50	LB135424
	Cadmium	3.00	<3.00	U	3.00	P	04/14/2025	18:50	LB135424
	Calcium	1000	<1000	U	1000	P	04/14/2025	18:50	LB135424
	Chromium	5.00	<5.00	U	5.00	P	04/14/2025	18:50	LB135424
	Cobalt	15.0	<15.0	U	15.0	P	04/14/2025	18:50	LB135424
	Copper	10.0	<10.0	U	10.0	P	04/14/2025	18:50	LB135424
	Iron	50.0	<50.0	U	50.0	P	04/14/2025	18:50	LB135424
	Lead	6.00	<6.00	U	6.00	P	04/14/2025	18:50	LB135424
	Magnesium	1000	<1000	U	1000	P	04/14/2025	18:50	LB135424
	Manganese	10.0	<10.0	U	10.0	P	04/14/2025	18:50	LB135424
	Nickel	20.0	<20.0	U	20.0	P	04/14/2025	18:50	LB135424

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Instrument: P4

Potassium	1000	<1000	U	1000	P	04/14/2025	18:50	LB135424
Selenium	10.0	<10.0	U	10.0	P	04/14/2025	18:50	LB135424
Silver	5.00	<5.00	U	5.00	P	04/14/2025	18:50	LB135424
Sodium	1000	<1000	U	1000	P	04/14/2025	18:50	LB135424
Thallium	20.0	<20.0	U	20.0	P	04/14/2025	18:50	LB135424
Vanadium	20.0	<20.0	U	20.0	P	04/14/2025	18:50	LB135424
Zinc	20.0	<20.0	U	20.0	P	04/14/2025	18:50	LB135424

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV82	Mercury	3.62	4.0	90	90 - 110	CV	04/09/2025	11:34	LB135354

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV49	Mercury	5.13	5.0	103	90 - 110	CV	04/09/2025	11:43	LB135354
CCV50	Mercury	4.80	5.0	96	90 - 110	CV	04/09/2025	12:17	LB135354
CCV51	Mercury	5.07	5.0	101	90 - 110	CV	04/09/2025	12:46	LB135354
CCV52	Mercury	4.60	5.0	92	90 - 110	CV	04/09/2025	13:58	LB135354
CCV53	Mercury	4.96	5.0	99	90 - 110	CV	04/09/2025	14:18	LB135354

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV84	Mercury	3.61	4.0	90	90 - 110	CV	04/11/2025	10:03	LB135388

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV59	Mercury	5.05	5.0	101	90 - 110	CV	04/11/2025	10:07	LB135388
CCV60	Mercury	4.52	5.0	90	90 - 110	CV	04/11/2025	10:37	LB135388
CCV61	Mercury	4.67	5.0	93	90 - 110	CV	04/11/2025	11:14	LB135388
CCV62	Mercury	4.81	5.0	96	90 - 110	CV	04/11/2025	11:41	LB135388

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2380	2500	95	90 - 110	P	04/10/2025	10:09	LB135373
	Antimony	1000	1000	100	90 - 110	P	04/10/2025	10:09	LB135373
	Arsenic	985	1000	98	90 - 110	P	04/10/2025	10:09	LB135373
	Barium	534	520	103	90 - 110	P	04/10/2025	10:09	LB135373
	Beryllium	469	510	92	90 - 110	P	04/10/2025	10:09	LB135373
	Cadmium	483	510	95	90 - 110	P	04/10/2025	10:09	LB135373
	Calcium	9300	10000	93	90 - 110	P	04/10/2025	10:09	LB135373
	Chromium	505	520	97	90 - 110	P	04/10/2025	10:09	LB135373
	Cobalt	488	520	94	90 - 110	P	04/10/2025	10:09	LB135373
	Copper	517	510	102	90 - 110	P	04/10/2025	10:09	LB135373
	Iron	10300	10000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Lead	951	1000	95	90 - 110	P	04/10/2025	10:09	LB135373
	Magnesium	5420	6000	90	90 - 110	P	04/10/2025	10:09	LB135373
	Manganese	468	520	90	90 - 110	P	04/10/2025	10:09	LB135373
	Nickel	497	530	94	90 - 110	P	04/10/2025	10:09	LB135373
	Potassium	10200	9900	103	90 - 110	P	04/10/2025	10:09	LB135373
	Selenium	1030	1000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Silver	245	250	98	90 - 110	P	04/10/2025	10:09	LB135373
	Sodium	10300	10000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Thallium	1020	1000	102	90 - 110	P	04/10/2025	10:09	LB135373
	Vanadium	460	500	92	90 - 110	P	04/10/2025	10:09	LB135373
	Zinc	996	1000	100	90 - 110	P	04/10/2025	10:09	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	93.1	100	93	80 - 120	P	04/10/2025	10:25	LB135373
	Antimony	51.6	50.0	103	80 - 120	P	04/10/2025	10:25	LB135373
	Arsenic	18.5	20.0	92	80 - 120	P	04/10/2025	10:25	LB135373
	Barium	85.5	100	86	80 - 120	P	04/10/2025	10:25	LB135373
	Beryllium	5.39	6.0	90	80 - 120	P	04/10/2025	10:25	LB135373
	Cadmium	5.62	6.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Calcium	1880	2000	94	80 - 120	P	04/10/2025	10:25	LB135373
	Chromium	9.56	10.0	96	80 - 120	P	04/10/2025	10:25	LB135373
	Cobalt	28.1	30.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Copper	21.9	20.0	110	80 - 120	P	04/10/2025	10:25	LB135373
	Iron	89.9	100	90	80 - 120	P	04/10/2025	10:25	LB135373
	Lead	9.94	12.0	83	80 - 120	P	04/10/2025	10:25	LB135373
	Magnesium	1990	2000	99	80 - 120	P	04/10/2025	10:25	LB135373
	Manganese	20.8	20.0	104	80 - 120	P	04/10/2025	10:25	LB135373
	Nickel	37.7	40.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Potassium	1810	2000	91	80 - 120	P	04/10/2025	10:25	LB135373
	Selenium	18.9	20.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Silver	10.5	10.0	104	80 - 120	P	04/10/2025	10:25	LB135373
	Sodium	1770	2000	88	80 - 120	P	04/10/2025	10:25	LB135373
	Thallium	38.9	40.0	97	80 - 120	P	04/10/2025	10:25	LB135373
	Vanadium	37.1	40.0	93	80 - 120	P	04/10/2025	10:25	LB135373
	Zinc	39.6	40.0	99	80 - 120	P	04/10/2025	10:25	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9820	10000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Antimony	4910	5000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Arsenic	4750	5000	95	90 - 110	P	04/10/2025	11:00	LB135373
	Barium	9770	10000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Beryllium	246	250	98	90 - 110	P	04/10/2025	11:00	LB135373
	Cadmium	2340	2500	94	90 - 110	P	04/10/2025	11:00	LB135373
	Calcium	24000	25000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	11:00	LB135373
	Cobalt	2450	2500	98	90 - 110	P	04/10/2025	11:00	LB135373
	Copper	1260	1250	101	90 - 110	P	04/10/2025	11:00	LB135373
	Iron	5250	5000	105	90 - 110	P	04/10/2025	11:00	LB135373
	Lead	5240	5000	105	90 - 110	P	04/10/2025	11:00	LB135373
	Magnesium	24000	25000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Manganese	2350	2500	94	90 - 110	P	04/10/2025	11:00	LB135373
	Nickel	2460	2500	98	90 - 110	P	04/10/2025	11:00	LB135373
	Potassium	26900	25000	108	90 - 110	P	04/10/2025	11:00	LB135373
	Selenium	4820	5000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Silver	1250	1250	100	90 - 110	P	04/10/2025	11:00	LB135373
	Sodium	22500	25000	90	90 - 110	P	04/10/2025	11:00	LB135373
	Thallium	4770	5000	95	90 - 110	P	04/10/2025	11:00	LB135373
	Vanadium	2420	2500	97	90 - 110	P	04/10/2025	11:00	LB135373
	Zinc	2540	2500	102	90 - 110	P	04/10/2025	11:00	LB135373
CCV02	Aluminum	9830	10000	98	90 - 110	P	04/10/2025	12:08	LB135373
	Antimony	4970	5000	99	90 - 110	P	04/10/2025	12:08	LB135373
	Arsenic	4800	5000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Barium	9680	10000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Beryllium	249	250	100	90 - 110	P	04/10/2025	12:08	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	12:08	LB135373
	Calcium	24000	25000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:08	LB135373
	Cobalt	2470	2500	99	90 - 110	P	04/10/2025	12:08	LB135373
	Copper	1270	1250	102	90 - 110	P	04/10/2025	12:08	LB135373
	Iron	5230	5000	104	90 - 110	P	04/10/2025	12:08	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	12:08	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24100	25000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Manganese	2340	2500	94	90 - 110	P	04/10/2025	12:08	LB135373
	Nickel	2480	2500	99	90 - 110	P	04/10/2025	12:08	LB135373
	Potassium	26800	25000	107	90 - 110	P	04/10/2025	12:08	LB135373
	Selenium	4860	5000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	12:08	LB135373
	Sodium	27100	25000	108	90 - 110	P	04/10/2025	12:08	LB135373
	Thallium	4860	5000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Vanadium	2430	2500	97	90 - 110	P	04/10/2025	12:08	LB135373
	Zinc	2530	2500	101	90 - 110	P	04/10/2025	12:08	LB135373
CCV03	Aluminum	9940	10000	99	90 - 110	P	04/10/2025	12:59	LB135373
	Antimony	5070	5000	101	90 - 110	P	04/10/2025	12:59	LB135373
	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	12:59	LB135373
	Barium	10100	10000	101	90 - 110	P	04/10/2025	12:59	LB135373
	Beryllium	235	250	94	90 - 110	P	04/10/2025	12:59	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	12:59	LB135373
	Calcium	24200	25000	97	90 - 110	P	04/10/2025	12:59	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:59	LB135373
	Cobalt	2480	2500	99	90 - 110	P	04/10/2025	12:59	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	12:59	LB135373
	Iron	5230	5000	105	90 - 110	P	04/10/2025	12:59	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	12:59	LB135373
	Magnesium	23900	25000	96	90 - 110	P	04/10/2025	12:59	LB135373
	Manganese	2370	2500	95	90 - 110	P	04/10/2025	12:59	LB135373
	Nickel	2490	2500	100	90 - 110	P	04/10/2025	12:59	LB135373
	Potassium	23300	25000	93	90 - 110	P	04/10/2025	12:59	LB135373
	Selenium	4990	5000	100	90 - 110	P	04/10/2025	12:59	LB135373
	Silver	1270	1250	101	90 - 110	P	04/10/2025	12:59	LB135373
	Sodium	24300	25000	97	90 - 110	P	04/10/2025	12:59	LB135373
	Thallium	4840	5000	97	90 - 110	P	04/10/2025	12:59	LB135373
	Vanadium	2470	2500	99	90 - 110	P	04/10/2025	12:59	LB135373
	Zinc	2560	2500	102	90 - 110	P	04/10/2025	12:59	LB135373
CCV04	Aluminum	9990	10000	100	90 - 110	P	04/10/2025	13:51	LB135373
	Antimony	5040	5000	101	90 - 110	P	04/10/2025	13:51	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4880	5000	98	90 - 110	P	04/10/2025	13:51	LB135373
	Barium	9600	10000	96	90 - 110	P	04/10/2025	13:51	LB135373
	Beryllium	239	250	96	90 - 110	P	04/10/2025	13:51	LB135373
	Cadmium	2380	2500	95	90 - 110	P	04/10/2025	13:51	LB135373
	Calcium	24200	25000	97	90 - 110	P	04/10/2025	13:51	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	13:51	LB135373
	Cobalt	2490	2500	100	90 - 110	P	04/10/2025	13:51	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	13:51	LB135373
	Iron	4980	5000	100	90 - 110	P	04/10/2025	13:51	LB135373
	Lead	4760	5000	95	90 - 110	P	04/10/2025	13:51	LB135373
	Magnesium	24400	25000	98	90 - 110	P	04/10/2025	13:51	LB135373
	Manganese	2380	2500	95	90 - 110	P	04/10/2025	13:51	LB135373
	Nickel	2500	2500	100	90 - 110	P	04/10/2025	13:51	LB135373
	Potassium	25400	25000	101	90 - 110	P	04/10/2025	13:51	LB135373
	Selenium	4960	5000	99	90 - 110	P	04/10/2025	13:51	LB135373
	Silver	1270	1250	102	90 - 110	P	04/10/2025	13:51	LB135373
	Sodium	26400	25000	106	90 - 110	P	04/10/2025	13:51	LB135373
	Thallium	4980	5000	100	90 - 110	P	04/10/2025	13:51	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	13:51	LB135373
	Zinc	2570	2500	103	90 - 110	P	04/10/2025	13:51	LB135373
CCV05	Aluminum	9910	10000	99	90 - 110	P	04/10/2025	14:44	LB135373
	Antimony	5000	5000	100	90 - 110	P	04/10/2025	14:44	LB135373
	Arsenic	4820	5000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	14:44	LB135373
	Beryllium	230	250	92	90 - 110	P	04/10/2025	14:44	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	14:44	LB135373
	Calcium	24000	25000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	14:44	LB135373
	Cobalt	2470	2500	99	90 - 110	P	04/10/2025	14:44	LB135373
	Copper	1280	1250	103	90 - 110	P	04/10/2025	14:44	LB135373
	Iron	5160	5000	103	90 - 110	P	04/10/2025	14:44	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	14:44	LB135373
	Magnesium	24100	25000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Manganese	2360	2500	94	90 - 110	P	04/10/2025	14:44	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2480	2500	99	90 - 110	P	04/10/2025	14:44	LB135373
	Potassium	26100	25000	105	90 - 110	P	04/10/2025	14:44	LB135373
	Selenium	4910	5000	98	90 - 110	P	04/10/2025	14:44	LB135373
	Silver	1270	1250	101	90 - 110	P	04/10/2025	14:44	LB135373
	Sodium	26900	25000	108	90 - 110	P	04/10/2025	14:44	LB135373
	Thallium	4830	5000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Vanadium	2440	2500	98	90 - 110	P	04/10/2025	14:44	LB135373
	Zinc	2550	2500	102	90 - 110	P	04/10/2025	14:44	LB135373
CCV06	Aluminum	9970	10000	100	90 - 110	P	04/10/2025	15:44	LB135373
	Antimony	4960	5000	99	90 - 110	P	04/10/2025	15:44	LB135373
	Arsenic	4780	5000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Barium	9640	10000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Beryllium	228	250	91	90 - 110	P	04/10/2025	15:44	LB135373
	Cadmium	2340	2500	93	90 - 110	P	04/10/2025	15:44	LB135373
	Calcium	24100	25000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	15:44	LB135373
	Cobalt	2450	2500	98	90 - 110	P	04/10/2025	15:44	LB135373
	Copper	1270	1250	102	90 - 110	P	04/10/2025	15:44	LB135373
	Iron	5060	5000	101	90 - 110	P	04/10/2025	15:44	LB135373
	Lead	4690	5000	94	90 - 110	P	04/10/2025	15:44	LB135373
	Magnesium	24200	25000	97	90 - 110	P	04/10/2025	15:44	LB135373
	Manganese	2380	2500	95	90 - 110	P	04/10/2025	15:44	LB135373
	Nickel	2470	2500	99	90 - 110	P	04/10/2025	15:44	LB135373
	Potassium	25700	25000	103	90 - 110	P	04/10/2025	15:44	LB135373
	Selenium	4850	5000	97	90 - 110	P	04/10/2025	15:44	LB135373
	Silver	1260	1250	100	90 - 110	P	04/10/2025	15:44	LB135373
	Sodium	26500	25000	106	90 - 110	P	04/10/2025	15:44	LB135373
	Thallium	4770	5000	95	90 - 110	P	04/10/2025	15:44	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	15:44	LB135373
	Zinc	2520	2500	101	90 - 110	P	04/10/2025	15:44	LB135373
CCV07	Aluminum	10100	10000	101	90 - 110	P	04/10/2025	16:56	LB135373
	Antimony	5100	5000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Arsenic	4920	5000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Barium	9570	10000	96	90 - 110	P	04/10/2025	16:56	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	241	250	96	90 - 110	P	04/10/2025	16:56	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	16:56	LB135373
	Calcium	24200	25000	97	90 - 110	P	04/10/2025	16:56	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Cobalt	2460	2500	98	90 - 110	P	04/10/2025	16:56	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	16:56	LB135373
	Iron	4820	5000	96	90 - 110	P	04/10/2025	16:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	16:56	LB135373
	Magnesium	24500	25000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Manganese	2380	2500	95	90 - 110	P	04/10/2025	16:56	LB135373
	Nickel	2500	2500	100	90 - 110	P	04/10/2025	16:56	LB135373
	Potassium	24200	25000	97	90 - 110	P	04/10/2025	16:56	LB135373
	Selenium	5020	5000	100	90 - 110	P	04/10/2025	16:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	16:56	LB135373
	Sodium	25500	25000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Thallium	4910	5000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	16:56	LB135373
	Zinc	2560	2500	102	90 - 110	P	04/10/2025	16:56	LB135373
CCV08	Aluminum	10100	10000	101	90 - 110	P	04/10/2025	17:56	LB135373
	Antimony	5060	5000	101	90 - 110	P	04/10/2025	17:56	LB135373
	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	17:56	LB135373
	Barium	9470	10000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Beryllium	233	250	93	90 - 110	P	04/10/2025	17:56	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	17:56	LB135373
	Calcium	23900	25000	96	90 - 110	P	04/10/2025	17:56	LB135373
	Chromium	1030	1000	103	90 - 110	P	04/10/2025	17:56	LB135373
	Cobalt	2460	2500	99	90 - 110	P	04/10/2025	17:56	LB135373
	Copper	1280	1250	103	90 - 110	P	04/10/2025	17:56	LB135373
	Iron	5030	5000	100	90 - 110	P	04/10/2025	17:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Magnesium	24300	25000	97	90 - 110	P	04/10/2025	17:56	LB135373
	Manganese	2330	2500	93	90 - 110	P	04/10/2025	17:56	LB135373
	Nickel	2500	2500	100	90 - 110	P	04/10/2025	17:56	LB135373
	Potassium	25100	25000	100	90 - 110	P	04/10/2025	17:56	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4980	5000	100	90 - 110	P	04/10/2025	17:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	17:56	LB135373
	Sodium	26300	25000	105	90 - 110	P	04/10/2025	17:56	LB135373
	Thallium	4870	5000	97	90 - 110	P	04/10/2025	17:56	LB135373
	Vanadium	2410	2500	97	90 - 110	P	04/10/2025	17:56	LB135373
	Zinc	2550	2500	102	90 - 110	P	04/10/2025	17:56	LB135373
CCV09	Aluminum	9970	10000	100	90 - 110	P	04/10/2025	18:19	LB135373
	Antimony	5050	5000	101	90 - 110	P	04/10/2025	18:19	LB135373
	Arsenic	4850	5000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Beryllium	247	250	99	90 - 110	P	04/10/2025	18:19	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	18:19	LB135373
	Calcium	23900	25000	95	90 - 110	P	04/10/2025	18:19	LB135373
	Chromium	1000	1000	100	90 - 110	P	04/10/2025	18:19	LB135373
	Cobalt	2460	2500	99	90 - 110	P	04/10/2025	18:19	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	18:19	LB135373
	Iron	5130	5000	103	90 - 110	P	04/10/2025	18:19	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	18:19	LB135373
	Magnesium	23900	25000	96	90 - 110	P	04/10/2025	18:19	LB135373
	Manganese	2350	2500	94	90 - 110	P	04/10/2025	18:19	LB135373
	Nickel	2480	2500	99	90 - 110	P	04/10/2025	18:19	LB135373
	Potassium	26400	25000	105	90 - 110	P	04/10/2025	18:19	LB135373
	Selenium	4930	5000	99	90 - 110	P	04/10/2025	18:19	LB135373
	Silver	1240	1250	99	90 - 110	P	04/10/2025	18:19	LB135373
	Sodium	27400	25000	110	90 - 110	P	04/10/2025	18:19	LB135373
	Thallium	4700	5000	94	90 - 110	P	04/10/2025	18:19	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	18:19	LB135373
	Zinc	2500	2500	100	90 - 110	P	04/10/2025	18:19	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2360	2500	94	90 - 110	P	04/14/2025	13:56	LB135424
	Antimony	1040	1000	104	90 - 110	P	04/14/2025	13:56	LB135424
	Arsenic	1060	1000	106	90 - 110	P	04/14/2025	13:56	LB135424
	Barium	534	520	103	90 - 110	P	04/14/2025	13:56	LB135424
	Beryllium	496	510	97	90 - 110	P	04/14/2025	13:56	LB135424
	Cadmium	507	510	99	90 - 110	P	04/14/2025	13:56	LB135424
	Calcium	9360	10000	94	90 - 110	P	04/14/2025	13:56	LB135424
	Chromium	507	520	98	90 - 110	P	04/14/2025	13:56	LB135424
	Cobalt	490	520	94	90 - 110	P	04/14/2025	13:56	LB135424
	Copper	513	510	100	90 - 110	P	04/14/2025	13:56	LB135424
	Iron	9380	10000	94	90 - 110	P	04/14/2025	13:56	LB135424
	Lead	1000	1000	100	90 - 110	P	04/14/2025	13:56	LB135424
	Magnesium	5990	6000	100	90 - 110	P	04/14/2025	13:56	LB135424
	Manganese	483	520	93	90 - 110	P	04/14/2025	13:56	LB135424
	Nickel	494	530	93	90 - 110	P	04/14/2025	13:56	LB135424
	Potassium	9740	9900	98	90 - 110	P	04/14/2025	13:56	LB135424
	Selenium	1050	1000	105	90 - 110	P	04/14/2025	13:56	LB135424
	Silver	246	250	98	90 - 110	P	04/14/2025	13:56	LB135424
	Sodium	10100	10000	101	90 - 110	P	04/14/2025	13:56	LB135424
	Thallium	1030	1000	103	90 - 110	P	04/14/2025	13:56	LB135424
	Vanadium	474	500	95	90 - 110	P	04/14/2025	13:56	LB135424
	Zinc	994	1000	99	90 - 110	P	04/14/2025	13:56	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	97.5	100	98	80 - 120	P	04/14/2025	14:01	LB135424
	Antimony	53.2	50.0	106	80 - 120	P	04/14/2025	14:01	LB135424
	Arsenic	22.8	20.0	114	80 - 120	P	04/14/2025	14:01	LB135424
	Barium	96.1	100	96	80 - 120	P	04/14/2025	14:01	LB135424
	Beryllium	6.00	6.0	100	80 - 120	P	04/14/2025	14:01	LB135424
	Cadmium	6.12	6.0	102	80 - 120	P	04/14/2025	14:01	LB135424
	Calcium	1980	2000	99	80 - 120	P	04/14/2025	14:01	LB135424
	Chromium	9.81	10.0	98	80 - 120	P	04/14/2025	14:01	LB135424
	Cobalt	29.6	30.0	98	80 - 120	P	04/14/2025	14:01	LB135424
	Copper	22.6	20.0	113	80 - 120	P	04/14/2025	14:01	LB135424
	Iron	99.4	100	99	80 - 120	P	04/14/2025	14:01	LB135424
	Lead	12.4	12.0	103	80 - 120	P	04/14/2025	14:01	LB135424
	Magnesium	2080	2000	104	80 - 120	P	04/14/2025	14:01	LB135424
	Manganese	20.6	20.0	103	80 - 120	P	04/14/2025	14:01	LB135424
	Nickel	39.5	40.0	99	80 - 120	P	04/14/2025	14:01	LB135424
	Potassium	1920	2000	96	80 - 120	P	04/14/2025	14:01	LB135424
	Selenium	19.0	20.0	95	80 - 120	P	04/14/2025	14:01	LB135424
	Silver	10.0	10.0	100	80 - 120	P	04/14/2025	14:01	LB135424
	Sodium	1840	2000	92	80 - 120	P	04/14/2025	14:01	LB135424
	Thallium	41.8	40.0	105	80 - 120	P	04/14/2025	14:01	LB135424
	Vanadium	40.4	40.0	101	80 - 120	P	04/14/2025	14:01	LB135424
	Zinc	41.6	40.0	104	80 - 120	P	04/14/2025	14:01	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9750	10000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Antimony	4920	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Arsenic	4910	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Barium	9640	10000	96	90 - 110	P	04/14/2025	14:31	LB135424
	Beryllium	256	250	102	90 - 110	P	04/14/2025	14:31	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Calcium	24400	25000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	14:31	LB135424
	Cobalt	2460	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Copper	1240	1250	100	90 - 110	P	04/14/2025	14:31	LB135424
	Iron	4830	5000	97	90 - 110	P	04/14/2025	14:31	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	14:31	LB135424
	Magnesium	24400	25000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Manganese	2440	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Nickel	2460	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Potassium	23800	25000	95	90 - 110	P	04/14/2025	14:31	LB135424
	Selenium	4930	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Silver	1250	1250	100	90 - 110	P	04/14/2025	14:31	LB135424
	Sodium	23800	25000	95	90 - 110	P	04/14/2025	14:31	LB135424
	Thallium	5050	5000	101	90 - 110	P	04/14/2025	14:31	LB135424
	Vanadium	2440	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Zinc	2510	2500	100	90 - 110	P	04/14/2025	14:31	LB135424
CCV02	Aluminum	9730	10000	97	90 - 110	P	04/14/2025	15:22	LB135424
	Antimony	4950	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Arsenic	4930	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	15:22	LB135424
	Beryllium	246	250	98	90 - 110	P	04/14/2025	15:22	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	15:22	LB135424
	Calcium	24100	25000	96	90 - 110	P	04/14/2025	15:22	LB135424
	Chromium	995	1000	100	90 - 110	P	04/14/2025	15:22	LB135424
	Cobalt	2460	2500	98	90 - 110	P	04/14/2025	15:22	LB135424
	Copper	1250	1250	100	90 - 110	P	04/14/2025	15:22	LB135424
	Iron	4880	5000	98	90 - 110	P	04/14/2025	15:22	LB135424
	Lead	4930	5000	98	90 - 110	P	04/14/2025	15:22	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24000	25000	96	90 - 110	P	04/14/2025	15:22	LB135424
	Manganese	2410	2500	96	90 - 110	P	04/14/2025	15:22	LB135424
	Nickel	2460	2500	98	90 - 110	P	04/14/2025	15:22	LB135424
	Potassium	24300	25000	97	90 - 110	P	04/14/2025	15:22	LB135424
	Selenium	4970	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Silver	1230	1250	98	90 - 110	P	04/14/2025	15:22	LB135424
	Sodium	24400	25000	98	90 - 110	P	04/14/2025	15:22	LB135424
	Thallium	4980	5000	100	90 - 110	P	04/14/2025	15:22	LB135424
	Vanadium	2420	2500	97	90 - 110	P	04/14/2025	15:22	LB135424
	Zinc	2480	2500	99	90 - 110	P	04/14/2025	15:22	LB135424
CCV03	Aluminum	9760	10000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Antimony	4910	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Arsenic	4890	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Barium	9870	10000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Beryllium	248	250	99	90 - 110	P	04/14/2025	16:28	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	16:28	LB135424
	Calcium	24400	25000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Chromium	983	1000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Cobalt	2480	2500	99	90 - 110	P	04/14/2025	16:28	LB135424
	Copper	1250	1250	100	90 - 110	P	04/14/2025	16:28	LB135424
	Iron	4970	5000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Lead	4930	5000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Magnesium	24200	25000	97	90 - 110	P	04/14/2025	16:28	LB135424
	Manganese	2460	2500	98	90 - 110	P	04/14/2025	16:28	LB135424
	Nickel	2470	2500	99	90 - 110	P	04/14/2025	16:28	LB135424
	Potassium	26100	25000	104	90 - 110	P	04/14/2025	16:28	LB135424
	Selenium	4900	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Silver	1230	1250	99	90 - 110	P	04/14/2025	16:28	LB135424
	Sodium	26500	25000	106	90 - 110	P	04/14/2025	16:28	LB135424
	Thallium	4870	5000	97	90 - 110	P	04/14/2025	16:28	LB135424
	Vanadium	2450	2500	98	90 - 110	P	04/14/2025	16:28	LB135424
	Zinc	2470	2500	99	90 - 110	P	04/14/2025	16:28	LB135424
CCV04	Aluminum	9710	10000	97	90 - 110	P	04/14/2025	17:18	LB135424
	Antimony	4930	5000	99	90 - 110	P	04/14/2025	17:18	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4920	5000	98	90 - 110	P	04/14/2025	17:18	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	17:18	LB135424
	Beryllium	248	250	99	90 - 110	P	04/14/2025	17:18	LB135424
	Cadmium	2480	2500	99	90 - 110	P	04/14/2025	17:18	LB135424
	Calcium	24200	25000	97	90 - 110	P	04/14/2025	17:18	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	17:18	LB135424
	Cobalt	2480	2500	99	90 - 110	P	04/14/2025	17:18	LB135424
	Copper	1250	1250	100	90 - 110	P	04/14/2025	17:18	LB135424
	Iron	4930	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Magnesium	24100	25000	96	90 - 110	P	04/14/2025	17:18	LB135424
	Manganese	2410	2500	96	90 - 110	P	04/14/2025	17:18	LB135424
	Nickel	2470	2500	99	90 - 110	P	04/14/2025	17:18	LB135424
	Potassium	26000	25000	104	90 - 110	P	04/14/2025	17:18	LB135424
	Selenium	4950	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Silver	1240	1250	99	90 - 110	P	04/14/2025	17:18	LB135424
	Sodium	25900	25000	104	90 - 110	P	04/14/2025	17:18	LB135424
	Thallium	4960	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Vanadium	2420	2500	97	90 - 110	P	04/14/2025	17:18	LB135424
	Zinc	2450	2500	98	90 - 110	P	04/14/2025	17:18	LB135424
CCV05	Aluminum	9700	10000	97	90 - 110	P	04/14/2025	18:16	LB135424
	Antimony	4910	5000	98	90 - 110	P	04/14/2025	18:16	LB135424
	Arsenic	4860	5000	97	90 - 110	P	04/14/2025	18:16	LB135424
	Barium	9570	10000	96	90 - 110	P	04/14/2025	18:16	LB135424
	Beryllium	256	250	102	90 - 110	P	04/14/2025	18:16	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	18:16	LB135424
	Calcium	24300	25000	97	90 - 110	P	04/14/2025	18:16	LB135424
	Chromium	986	1000	99	90 - 110	P	04/14/2025	18:16	LB135424
	Cobalt	2470	2500	99	90 - 110	P	04/14/2025	18:16	LB135424
	Copper	1240	1250	99	90 - 110	P	04/14/2025	18:16	LB135424
	Iron	4770	5000	95	90 - 110	P	04/14/2025	18:16	LB135424
	Lead	4920	5000	98	90 - 110	P	04/14/2025	18:16	LB135424
	Magnesium	24200	25000	97	90 - 110	P	04/14/2025	18:16	LB135424
	Manganese	2430	2500	97	90 - 110	P	04/14/2025	18:16	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2460	2500	98	90 - 110	P	04/14/2025	18:16	LB135424
	Potassium	23600	25000	94	90 - 110	P	04/14/2025	18:16	LB135424
	Selenium	4910	5000	98	90 - 110	P	04/14/2025	18:16	LB135424
	Silver	1230	1250	98	90 - 110	P	04/14/2025	18:16	LB135424
	Sodium	23400	25000	94	90 - 110	P	04/14/2025	18:16	LB135424
	Thallium	4910	5000	98	90 - 110	P	04/14/2025	18:16	LB135424
	Vanadium	2440	2500	97	90 - 110	P	04/14/2025	18:16	LB135424
	Zinc	2460	2500	98	90 - 110	P	04/14/2025	18:16	LB135424
CCV06	Aluminum	9630	10000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Antimony	4840	5000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Arsenic	4780	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Barium	9740	10000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Beryllium	252	250	101	90 - 110	P	04/14/2025	19:07	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	19:07	LB135424
	Calcium	24200	25000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Chromium	957	1000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Cobalt	2460	2500	99	90 - 110	P	04/14/2025	19:07	LB135424
	Copper	1230	1250	98	90 - 110	P	04/14/2025	19:07	LB135424
	Iron	4560	5000	91	90 - 110	P	04/14/2025	19:07	LB135424
	Lead	4870	5000	98	90 - 110	P	04/14/2025	19:07	LB135424
	Magnesium	24000	25000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Manganese	2440	2500	98	90 - 110	P	04/14/2025	19:07	LB135424
	Nickel	2450	2500	98	90 - 110	P	04/14/2025	19:07	LB135424
	Potassium	24300	25000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Selenium	4820	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Silver	1190	1250	95	90 - 110	P	04/14/2025	19:07	LB135424
	Sodium	24200	25000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Thallium	4870	5000	98	90 - 110	P	04/14/2025	19:07	LB135424
	Vanadium	2430	2500	97	90 - 110	P	04/14/2025	19:07	LB135424
	Zinc	2350	2500	94	90 - 110	P	04/14/2025	19:07	LB135424
CCV07	Aluminum	9540	10000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Antimony	4810	5000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Arsenic	4740	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	19:57	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	240	250	96	90 - 110	P	04/14/2025	19:57	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	19:57	LB135424
	Calcium	24000	25000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Chromium	974	1000	97	90 - 110	P	04/14/2025	19:57	LB135424
	Cobalt	2440	2500	98	90 - 110	P	04/14/2025	19:57	LB135424
	Copper	1220	1250	98	90 - 110	P	04/14/2025	19:57	LB135424
	Iron	4830	5000	97	90 - 110	P	04/14/2025	19:57	LB135424
	Lead	4820	5000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Magnesium	23700	25000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Manganese	2380	2500	95	90 - 110	P	04/14/2025	19:57	LB135424
	Nickel	2420	2500	97	90 - 110	P	04/14/2025	19:57	LB135424
	Potassium	25300	25000	101	90 - 110	P	04/14/2025	19:57	LB135424
	Selenium	4770	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	19:57	LB135424
	Sodium	25400	25000	102	90 - 110	P	04/14/2025	19:57	LB135424
	Thallium	4850	5000	97	90 - 110	P	04/14/2025	19:57	LB135424
	Vanadium	2400	2500	96	90 - 110	P	04/14/2025	19:57	LB135424
	Zinc	2400	2500	96	90 - 110	P	04/14/2025	19:57	LB135424
CCV08	Aluminum	9600	10000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Antimony	4870	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Arsenic	4810	5000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	20:48	LB135424
	Beryllium	242	250	97	90 - 110	P	04/14/2025	20:48	LB135424
	Cadmium	2440	2500	98	90 - 110	P	04/14/2025	20:48	LB135424
	Calcium	24100	25000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Chromium	955	1000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Cobalt	2460	2500	98	90 - 110	P	04/14/2025	20:48	LB135424
	Copper	1230	1250	99	90 - 110	P	04/14/2025	20:48	LB135424
	Iron	4750	5000	95	90 - 110	P	04/14/2025	20:48	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Magnesium	23600	25000	94	90 - 110	P	04/14/2025	20:48	LB135424
	Manganese	2420	2500	97	90 - 110	P	04/14/2025	20:48	LB135424
	Nickel	2440	2500	98	90 - 110	P	04/14/2025	20:48	LB135424
	Potassium	23800	25000	95	90 - 110	P	04/14/2025	20:48	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4860	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Silver	1190	1250	96	90 - 110	P	04/14/2025	20:48	LB135424
	Sodium	24000	25000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Thallium	4810	5000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Vanadium	2420	2500	97	90 - 110	P	04/14/2025	20:48	LB135424
	Zinc	2390	2500	96	90 - 110	P	04/14/2025	20:48	LB135424
CCV09	Aluminum	9520	10000	95	90 - 110	P	04/14/2025	21:38	LB135424
	Antimony	4820	5000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Arsenic	4770	5000	95	90 - 110	P	04/14/2025	21:38	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Beryllium	246	250	98	90 - 110	P	04/14/2025	21:38	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	21:38	LB135424
	Calcium	23900	25000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Chromium	973	1000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Cobalt	2440	2500	98	90 - 110	P	04/14/2025	21:38	LB135424
	Copper	1220	1250	98	90 - 110	P	04/14/2025	21:38	LB135424
	Iron	4830	5000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Lead	4840	5000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Magnesium	23600	25000	94	90 - 110	P	04/14/2025	21:38	LB135424
	Manganese	2400	2500	96	90 - 110	P	04/14/2025	21:38	LB135424
	Nickel	2430	2500	97	90 - 110	P	04/14/2025	21:38	LB135424
	Potassium	25400	25000	102	90 - 110	P	04/14/2025	21:38	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Silver	1220	1250	97	90 - 110	P	04/14/2025	21:38	LB135424
	Sodium	25700	25000	103	90 - 110	P	04/14/2025	21:38	LB135424
	Thallium	4830	5000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Vanadium	2400	2500	96	90 - 110	P	04/14/2025	21:38	LB135424
	Zinc	2410	2500	96	90 - 110	P	04/14/2025	21:38	LB135424
CCV10	Aluminum	9550	10000	96	90 - 110	P	04/14/2025	22:28	LB135424
	Antimony	4880	5000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Arsenic	4830	5000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Barium	9670	10000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Beryllium	243	250	97	90 - 110	P	04/14/2025	22:28	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:28	LB135424

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	23800	25000	95	90 - 110	P	04/14/2025	22:28	LB135424
	Chromium	977	1000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Cobalt	2450	2500	98	90 - 110	P	04/14/2025	22:28	LB135424
	Copper	1230	1250	99	90 - 110	P	04/14/2025	22:28	LB135424
	Iron	4880	5000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Lead	4870	5000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Magnesium	23600	25000	95	90 - 110	P	04/14/2025	22:28	LB135424
	Manganese	2380	2500	95	90 - 110	P	04/14/2025	22:28	LB135424
	Nickel	2440	2500	98	90 - 110	P	04/14/2025	22:28	LB135424
	Potassium	24400	25000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Selenium	4880	5000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Silver	1220	1250	98	90 - 110	P	04/14/2025	22:28	LB135424
	Sodium	24000	25000	96	90 - 110	P	04/14/2025	22:28	LB135424
	Thallium	4900	5000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Vanadium	2400	2500	96	90 - 110	P	04/14/2025	22:28	LB135424
	Zinc	2430	2500	97	90 - 110	P	04/14/2025	22:28	LB135424
CCV11	Aluminum	9490	10000	95	90 - 110	P	04/14/2025	22:40	LB135424
	Antimony	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Arsenic	4800	5000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	22:40	LB135424
	Beryllium	241	250	96	90 - 110	P	04/14/2025	22:40	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:40	LB135424
	Calcium	24100	25000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Chromium	958	1000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Cobalt	2460	2500	98	90 - 110	P	04/14/2025	22:40	LB135424
	Copper	1230	1250	99	90 - 110	P	04/14/2025	22:40	LB135424
	Iron	4930	5000	99	90 - 110	P	04/14/2025	22:40	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Magnesium	23500	25000	94	90 - 110	P	04/14/2025	22:40	LB135424
	Manganese	2420	2500	97	90 - 110	P	04/14/2025	22:40	LB135424
	Nickel	2440	2500	98	90 - 110	P	04/14/2025	22:40	LB135424
	Potassium	25200	25000	101	90 - 110	P	04/14/2025	22:40	LB135424
	Selenium	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Silver	1210	1250	97	90 - 110	P	04/14/2025	22:40	LB135424

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	25700	25000	103	90 - 110	P	04/14/2025	22:40	LB135424
	Thallium	4870	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Vanadium	2400	2500	96	90 - 110	P	04/14/2025	22:40	LB135424
	Zinc	2400	2500	96	90 - 110	P	04/14/2025	22:40	LB135424
CCV12	Aluminum	9430	10000	94	90 - 110	P	04/14/2025	23:06	LB135424
	Antimony	4830	5000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Arsenic	4760	5000	95	90 - 110	P	04/14/2025	23:06	LB135424
	Barium	9900	10000	99	90 - 110	P	04/14/2025	23:06	LB135424
	Beryllium	229	250	92	90 - 110	P	04/14/2025	23:06	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	23:06	LB135424
	Calcium	23900	25000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Chromium	965	1000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Cobalt	2440	2500	98	90 - 110	P	04/14/2025	23:06	LB135424
	Copper	1220	1250	98	90 - 110	P	04/14/2025	23:06	LB135424
	Iron	5060	5000	101	90 - 110	P	04/14/2025	23:06	LB135424
	Lead	4830	5000	97	90 - 110	P	04/14/2025	23:06	LB135424
	Magnesium	23200	25000	93	90 - 110	P	04/14/2025	23:06	LB135424
	Manganese	2380	2500	95	90 - 110	P	04/14/2025	23:06	LB135424
	Nickel	2420	2500	97	90 - 110	P	04/14/2025	23:06	LB135424
	Potassium	27200	25000	109	90 - 110	P	04/14/2025	23:06	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	23:06	LB135424
	Sodium	27500	25000	110	90 - 110	P	04/14/2025	23:06	LB135424
	Thallium	4850	5000	97	90 - 110	P	04/14/2025	23:06	LB135424
	Vanadium	2380	2500	95	90 - 110	P	04/14/2025	23:06	LB135424
	Zinc	2410	2500	96	90 - 110	P	04/14/2025	23:06	LB135424

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.17	0.2	86	40 - 160	CV	04/09/2025	11:47	LB135354
CRI01	Aluminum	98.0	100	98	40 - 160	P	04/10/2025	10:33	LB135373
	Antimony	51.0	50.0	102	40 - 160	P	04/10/2025	10:33	LB135373
	Arsenic	18.9	20.0	95	40 - 160	P	04/10/2025	10:33	LB135373
	Barium	85.4	100	85	40 - 160	P	04/10/2025	10:33	LB135373
	Beryllium	5.48	6.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Cadmium	5.51	6.0	92	40 - 160	P	04/10/2025	10:33	LB135373
	Calcium	1880	2000	94	40 - 160	P	04/10/2025	10:33	LB135373
	Chromium	9.42	10.0	94	40 - 160	P	04/10/2025	10:33	LB135373
	Cobalt	28.2	30.0	94	40 - 160	P	04/10/2025	10:33	LB135373
	Copper	21.9	20.0	109	40 - 160	P	04/10/2025	10:33	LB135373
	Iron	102	100	102	40 - 160	P	04/10/2025	10:33	LB135373
	Lead	11.6	12.0	97	40 - 160	P	04/10/2025	10:33	LB135373
	Magnesium	1980	2000	99	40 - 160	P	04/10/2025	10:33	LB135373
	Manganese	15.0	20.0	75	40 - 160	P	04/10/2025	10:33	LB135373
	Nickel	38.0	40.0	95	40 - 160	P	04/10/2025	10:33	LB135373
	Potassium	1960	2000	98	40 - 160	P	04/10/2025	10:33	LB135373
	Selenium	18.1	20.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Silver	10.4	10.0	104	40 - 160	P	04/10/2025	10:33	LB135373
	Sodium	1480	2000	74	40 - 160	P	04/10/2025	10:33	LB135373
	Thallium	38.3	40.0	96	40 - 160	P	04/10/2025	10:33	LB135373
	Vanadium	36.3	40.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Zinc	39.6	40.0	99	40 - 160	P	04/10/2025	10:33	LB135373
CRA	Mercury	0.21	0.2	104	40 - 160	CV	04/11/2025	10:12	LB135388
CRI01	Aluminum	91.7	100	92	40 - 160	P	04/14/2025	14:09	LB135424
	Antimony	51.7	50.0	103	40 - 160	P	04/14/2025	14:09	LB135424
	Arsenic	22.3	20.0	112	40 - 160	P	04/14/2025	14:09	LB135424
	Barium	95.6	100	96	40 - 160	P	04/14/2025	14:09	LB135424
	Beryllium	5.76	6.0	96	40 - 160	P	04/14/2025	14:09	LB135424
	Cadmium	6.08	6.0	101	40 - 160	P	04/14/2025	14:09	LB135424
	Calcium	1970	2000	98	40 - 160	P	04/14/2025	14:09	LB135424
	Chromium	9.67	10.0	97	40 - 160	P	04/14/2025	14:09	LB135424
	Cobalt	29.3	30.0	98	40 - 160	P	04/14/2025	14:09	LB135424
	Copper	22.7	20.0	113	40 - 160	P	04/14/2025	14:09	LB135424
	Iron	102	100	102	40 - 160	P	04/14/2025	14:09	LB135424

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	12.2	12.0	102	40 - 160	P	04/14/2025	14:09	LB135424
	Magnesium	2060	2000	103	40 - 160	P	04/14/2025	14:09	LB135424
	Manganese	20.4	20.0	102	40 - 160	P	04/14/2025	14:09	LB135424
	Nickel	39.4	40.0	98	40 - 160	P	04/14/2025	14:09	LB135424
	Potassium	1930	2000	97	40 - 160	P	04/14/2025	14:09	LB135424
	Selenium	19.6	20.0	98	40 - 160	P	04/14/2025	14:09	LB135424
	Silver	9.88	10.0	99	40 - 160	P	04/14/2025	14:09	LB135424
	Sodium	1840	2000	92	40 - 160	P	04/14/2025	14:09	LB135424
	Thallium	41.8	40.0	104	40 - 160	P	04/14/2025	14:09	LB135424
	Vanadium	40.7	40.0	102	40 - 160	P	04/14/2025	14:09	LB135424
	Zinc	41.0	40.0	102	40 - 160	P	04/14/2025	14:09	LB135424

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	243000	255000	95	216000	294000	04/10/2025	10:37	LB135373
	Antimony	-1.86			-50	50	04/10/2025	10:37	LB135373
	Arsenic	5.16			-20	20	04/10/2025	10:37	LB135373
	Barium	-3.92	6.0	65	-94	106	04/10/2025	10:37	LB135373
	Beryllium	1.14			-6	6	04/10/2025	10:37	LB135373
	Cadmium	-3.53	1.0	353	-5	7	04/10/2025	10:37	LB135373
	Calcium	227000	245000	93	208000	282000	04/10/2025	10:37	LB135373
	Chromium	55.8	52.0	107	42	62	04/10/2025	10:37	LB135373
	Cobalt	1.58			-30	30	04/10/2025	10:37	LB135373
	Copper	-4.96	2.0	248	-18	22	04/10/2025	10:37	LB135373
	Iron	107000	101000	106	85600	116500	04/10/2025	10:37	LB135373
	Lead	7.32			-12	12	04/10/2025	10:37	LB135373
	Magnesium	243000	255000	95	216000	294000	04/10/2025	10:37	LB135373
	Manganese	0.78	7.0	11	-13	27	04/10/2025	10:37	LB135373
	Nickel	2.46	2.0	123	-38	42	04/10/2025	10:37	LB135373
	Potassium	-132			0	0	04/10/2025	10:37	LB135373
	Selenium	-8.19			-20	20	04/10/2025	10:37	LB135373
	Silver	3.75			-10	10	04/10/2025	10:37	LB135373
	Sodium	-202			0	0	04/10/2025	10:37	LB135373
	Thallium	9.79			-40	40	04/10/2025	10:37	LB135373
	Vanadium	2.28			-40	40	04/10/2025	10:37	LB135373
	Zinc	2.74			-40	40	04/10/2025	10:37	LB135373
ICSAB01	Aluminum	236000	247000	96	209000	285000	04/10/2025	10:42	LB135373
	Antimony	624	618	101	525	711	04/10/2025	10:42	LB135373
	Arsenic	111	104	107	88.4	120	04/10/2025	10:42	LB135373
	Barium	459	537	86	437	637	04/10/2025	10:42	LB135373
	Beryllium	525	495	106	420	570	04/10/2025	10:42	LB135373
	Cadmium	981	972	101	826	1120	04/10/2025	10:42	LB135373
	Calcium	219000	235000	93	199000	271000	04/10/2025	10:42	LB135373
	Chromium	553	542	102	460	624	04/10/2025	10:42	LB135373
	Cobalt	498	476	105	404	548	04/10/2025	10:42	LB135373
	Copper	500	511	98	434	588	04/10/2025	10:42	LB135373
	Iron	93600	99300	94	84400	114500	04/10/2025	10:42	LB135373
	Lead	57.3	49.0	117	37	61	04/10/2025	10:42	LB135373
	Magnesium	237000	248000	96	210000	286000	04/10/2025	10:42	LB135373
	Manganese	454	507	90	430	584	04/10/2025	10:42	LB135373
	Nickel	995	954	104	810	1100	04/10/2025	10:42	LB135373
	Potassium	-183			0	0	04/10/2025	10:42	LB135373
	Selenium	36.7	46.0	80	26	66	04/10/2025	10:42	LB135373
	Silver	186	201	92	170	232	04/10/2025	10:42	LB135373
	Sodium	-267			0	0	04/10/2025	10:42	LB135373
	Thallium	103	108	95	68	148	04/10/2025	10:42	LB135373

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	460	491	94	417	565	04/10/2025	10:42	LB135373
	Zinc	1060	952	111	809	1095	04/10/2025	10:42	LB135373
ICSA01	Aluminum	236000	255000	92	216000	294000	04/14/2025	14:14	LB135424
	Antimony	1.38			-50	50	04/14/2025	14:14	LB135424
	Arsenic	10.8			-20	20	04/14/2025	14:14	LB135424
	Barium	4.69	6.0	78	-94	106	04/14/2025	14:14	LB135424
	Beryllium	1.32			-6	6	04/14/2025	14:14	LB135424
	Cadmium	-1.94	1.0	194	-5	7	04/14/2025	14:14	LB135424
	Calcium	226000	245000	92	208000	282000	04/14/2025	14:14	LB135424
	Chromium	55.2	52.0	106	42	62	04/14/2025	14:14	LB135424
	Cobalt	1.77			-30	30	04/14/2025	14:14	LB135424
	Copper	9.26	2.0	463	-18	22	04/14/2025	14:14	LB135424
	Iron	99000	101000	98	85600	116500	04/14/2025	14:14	LB135424
	Lead	5.03			-12	12	04/14/2025	14:14	LB135424
	Magnesium	242000	255000	95	216000	294000	04/14/2025	14:14	LB135424
	Manganese	-0.13	7.0	2	-13	27	04/14/2025	14:14	LB135424
	Nickel	1.20	2.0	60	-38	42	04/14/2025	14:14	LB135424
	Potassium	11.8			0	0	04/14/2025	14:14	LB135424
	Selenium	-0.72			-20	20	04/14/2025	14:14	LB135424
	Silver	-3.74			-10	10	04/14/2025	14:14	LB135424
	Sodium	81.4			0	0	04/14/2025	14:14	LB135424
	Thallium	5.49			-40	40	04/14/2025	14:14	LB135424
	Vanadium	3.78			-40	40	04/14/2025	14:14	LB135424
	Zinc	4.10			-40	40	04/14/2025	14:14	LB135424
ICSAB01	Aluminum	236000	247000	96	209000	285000	04/14/2025	14:18	LB135424
	Antimony	646	618	104	525	711	04/14/2025	14:18	LB135424
	Arsenic	114	104	110	88.4	120	04/14/2025	14:18	LB135424
	Barium	479	537	89	437	637	04/14/2025	14:18	LB135424
	Beryllium	493	495	100	420	570	04/14/2025	14:18	LB135424
	Cadmium	1040	972	107	826	1120	04/14/2025	14:18	LB135424
	Calcium	226000	235000	96	199000	271000	04/14/2025	14:18	LB135424
	Chromium	553	542	102	460	624	04/14/2025	14:18	LB135424
	Cobalt	507	476	106	404	548	04/14/2025	14:18	LB135424
	Copper	506	511	99	434	588	04/14/2025	14:18	LB135424
	Iron	95200	99300	96	84400	114500	04/14/2025	14:18	LB135424
	Lead	53.8	49.0	110	37	61	04/14/2025	14:18	LB135424
	Magnesium	243000	248000	98	210000	286000	04/14/2025	14:18	LB135424
	Manganese	471	507	93	430	584	04/14/2025	14:18	LB135424
	Nickel	1000	954	105	810	1100	04/14/2025	14:18	LB135424
	Potassium	-12.3			0	0	04/14/2025	14:18	LB135424
	Selenium	47.1	46.0	102	26	66	04/14/2025	14:18	LB135424
	Silver	179	201	89	170	232	04/14/2025	14:18	LB135424

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	66.6			0	0	04/14/2025	14:18	LB135424
	Thallium	103	108	95	68	148	04/14/2025	14:18	LB135424
	Vanadium	473	491	96	417	565	04/14/2025	14:18	LB135424
	Zinc	1040	952	109	809	1095	04/14/2025	14:18	LB135424

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Solid **sample id:** Q1745-09 **client id:** IB-6.5-WCMS

Percent Solids for Sample: 71.5 **Spiked ID:** Q1745-09MS **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5740		5630		130	82		P
Antimony	mg/Kg	75 - 125	49.3		3.35	U	53.5	92		P
Arsenic	mg/Kg	75 - 125	82.2		36.0		53.5	86		P
Barium	mg/Kg	75 - 125	403		386		13.4	129		P
Beryllium	mg/Kg	75 - 125	10.8		0.54		13.4	77		P
Cadmium	mg/Kg	75 - 125	12.4		0.13	J	13.4	91		P
Calcium	mg/Kg	75 - 125	9880		9780		66.9	149		P
Chromium	mg/Kg	75 - 125	39.0		16.2		26.8	85		P
Cobalt	mg/Kg	75 - 125	18.7		6.11		13.4	94		P
Copper	mg/Kg	75 - 125	230		217		20.1	63		P
Iron	mg/Kg	75 - 125	18100		18500		200	-219		P
Lead	mg/Kg	75 - 125	740		694		66.9	69		P
Magnesium	mg/Kg	75 - 125	1140		1030		130	86		P
Manganese	mg/Kg	75 - 125	207		193		13.4	103		P
Nickel	mg/Kg	75 - 125	57.1		26.1		33.5	93		P
Potassium	mg/Kg	75 - 125	1810		1240		670	85		P
Selenium	mg/Kg	75 - 125	115		1.34	U	130	88		P
Silver	mg/Kg	75 - 125	7.33		3.03		5.0	86		P
Sodium	mg/Kg	75 - 125	1270		1130		200	73		P
Thallium	mg/Kg	75 - 125	120		0.76	J	130	92		P
Vanadium	mg/Kg	75 - 125	37.8		21.1		20.1	83		P
Zinc	mg/Kg	75 - 125	298		292		13.4	43		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Solid **sample id:** Q1745-09 **client id:** IB-6.5-WCMSD

Percent Solids for Sample: 71.5 **Spiked ID:** Q1745-09MSD **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5680		5630		130	40		P
Antimony	mg/Kg	75 - 125	47.3		3.35	U	52.5	90		P
Arsenic	mg/Kg	75 - 125	79.3		36.0		52.5	82		P
Barium	mg/Kg	75 - 125	425		386		13.1	297		P
Beryllium	mg/Kg	75 - 125	9.94		0.54		13.1	72	N	P
Cadmium	mg/Kg	75 - 125	11.8		0.13	J	13.1	89		P
Calcium	mg/Kg	75 - 125	9780		9780		65.7	-10		P
Chromium	mg/Kg	75 - 125	37.9		16.2		26.3	82		P
Cobalt	mg/Kg	75 - 125	18.1		6.11		13.1	91		P
Copper	mg/Kg	75 - 125	223		217		19.7	28		P
Iron	mg/Kg	75 - 125	18400		18500		200	-31		P
Lead	mg/Kg	75 - 125	725		694		65.7	47		P
Magnesium	mg/Kg	75 - 125	1120		1030		130	69		P
Manganese	mg/Kg	75 - 125	204		193		13.1	84		P
Nickel	mg/Kg	75 - 125	55.3		26.1		32.8	89		P
Potassium	mg/Kg	75 - 125	1870		1240		660	94		P
Selenium	mg/Kg	75 - 125	110		1.34	U	130	85		P
Silver	mg/Kg	75 - 125	7.24		3.03		4.9	86		P
Sodium	mg/Kg	75 - 125	1300		1130		200	84		P
Thallium	mg/Kg	75 - 125	116		0.76	J	130	89		P
Vanadium	mg/Kg	75 - 125	37.0		21.1		19.7	81		P
Zinc	mg/Kg	75 - 125	289		292		13.1	-17		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Water **sample id:** Q1746-05 **client id:** B-158-GW01MS

Percent Solids for Sample: NA **Spiked ID:** Q1746-05MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	2.22		0.20	J	4.0	51	N	CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Water **sample id:** Q1746-05 **client id:** B-158-GW01MSD

Percent Solids for Sample: NA **Spiked ID:** Q1746-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	2.16		0.20	J	4.0	49	N	CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Water **sample id:** Q1746-06 **client id:** B-149-GW01MS

Percent Solids for Sample: NA **Spiked ID:** Q1746-06MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	94900		77300		1000	1761		P
Antimony	ug/L	75 - 125	324		25.0	U	400	81		P
Arsenic	ug/L	75 - 125	396		53.3		400	86		P
Barium	ug/L	75 - 125	247		144		100	103		P
Beryllium	ug/L	75 - 125	81.9		4.92		100	77		P
Cadmium	ug/L	75 - 125	93.6		3.00	U	100	94		P
Calcium	ug/L	75 - 125	37900		37000		500	191		P
Chromium	ug/L	75 - 125	398		204		200	97		P
Cobalt	ug/L	75 - 125	166		56.1		100	110		P
Copper	ug/L	75 - 125	620		382		150	158	N	P
Iron	ug/L	75 - 125	168000		131000		1500	2487		P
Lead	ug/L	75 - 125	551		89.6		500	92		P
Magnesium	ug/L	75 - 125	46600		38600		1000	799		P
Manganese	ug/L	75 - 125	1020		757		100	268		P
Nickel	ug/L	75 - 125	403		143		250	104		P
Potassium	ug/L	75 - 125	41100		36400		5000	93		P
Selenium	ug/L	75 - 125	795		10.0	U	1000	80		P
Silver	ug/L	75 - 125	22.2		5.00	U	37.5	59	N	P
Sodium	ug/L	75 - 125	144000		143000		1500	63		P
Thallium	ug/L	75 - 125	829		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	345		198		150	98		P
Zinc	ug/L	75 - 125	726		559		100	168		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Water **sample id:** Q1746-06 **client id:** B-149-GW01MSD

Percent Solids for Sample: NA **Spiked ID:** Q1746-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	62300		77300		1000	-1504		P
Antimony	ug/L	75 - 125	360		25.0	U	400	90		P
Arsenic	ug/L	75 - 125	412		53.3		400	90		P
Barium	ug/L	75 - 125	187		144		100	43	N	P
Beryllium	ug/L	75 - 125	89.8		4.92		100	85		P
Cadmium	ug/L	75 - 125	97.5		3.00	U	100	98		P
Calcium	ug/L	75 - 125	23500		37000		500	-2683		P
Chromium	ug/L	75 - 125	336		204		200	66	N	P
Cobalt	ug/L	75 - 125	143		56.1		100	87		P
Copper	ug/L	75 - 125	479		382		150	65	N	P
Iron	ug/L	75 - 125	109000		131000		1500	-1405		P
Lead	ug/L	75 - 125	543		89.6		500	91		P
Magnesium	ug/L	75 - 125	30600		38600		1000	-799		P
Manganese	ug/L	75 - 125	703		757		100	-54		P
Nickel	ug/L	75 - 125	350		143		250	83		P
Potassium	ug/L	75 - 125	26000		36400		5000	-209		P
Selenium	ug/L	75 - 125	885		10.0	U	1000	88		P
Silver	ug/L	75 - 125	26.0		5.00	U	37.5	69	N	P
Sodium	ug/L	75 - 125	83200		143000		1500	-3998		P
Thallium	ug/L	75 - 125	902		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	274		198		150	51	N	P
Zinc	ug/L	75 - 125	518		559		100	-41		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Solid **sample id:** Q1753-05 **client id:** WC-2MS

Percent Solids for Sample: 89 **Spiked ID:** Q1753-05MS **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.23		0.026		0.3	69	N	CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Solid **sample id:** Q1753-05 **client id:** WC-2MSD

Percent Solids for Sample: 89 **Spiked ID:** Q1753-05MSD **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.18		0.026		0.28	56	N	CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Solid **Level:** LOW **Client ID:** IB-6.5-WCA

Sample ID: Q1745-09 **Spiked ID:** Q1745-09A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	mg/Kg	75 - 125	10.1		0.54		13.4	71		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Level:** LOW **Client ID:** B-158-GW01A

Sample ID: Q1746-05 **Spiked ID:** Q1746-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.23		0.20	J	4.00	76		CV

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Level:** LOW **Client ID:** B-149-GW01A

Sample ID: Q1746-06 **Spiked ID:** Q1746-06A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	177		144		100	33		P
Chromium	ug/L	75 - 125	301		204		200	48		P
Copper	ug/L	75 - 125	357		382		150	-17		P
Silver	ug/L	75 - 125	29.2		5.00	U	37.5	78		P
Vanadium	ug/L	75 - 125	259		198		150	41		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Solid **Level:** LOW **Client ID:** WC-2A

Sample ID: Q1753-05 **Spiked ID:** Q1753-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.26		0.026		0.30	78		CV

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Solid **Sample ID:** Q1745-09 **Client ID:** IB-6.5-WCDUP

Percent Solids for Sample: 71.5 **Duplicate ID** Q1745-09DUP **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5630		5310		6		P
Antimony	mg/Kg	20	3.35	U	3.15	U			P
Arsenic	mg/Kg	20	36.0		32.8		9		P
Barium	mg/Kg	20	386		369		5		P
Beryllium	mg/Kg	20	0.54		0.48		12		P
Cadmium	mg/Kg	20	0.13	J	0.11	J	15		P
Calcium	mg/Kg	20	9780		9280		5		P
Chromium	mg/Kg	20	16.2		15.2		6		P
Cobalt	mg/Kg	20	6.11		5.76		6		P
Copper	mg/Kg	20	217		202		7		P
Iron	mg/Kg	20	18500		17300		7		P
Lead	mg/Kg	20	694		647		7		P
Magnesium	mg/Kg	20	1030		973		6		P
Manganese	mg/Kg	20	193		184		5		P
Nickel	mg/Kg	20	26.1		24.3		7		P
Potassium	mg/Kg	20	1240		1140		8		P
Selenium	mg/Kg	20	1.34	U	1.26	U			P
Silver	mg/Kg	20	3.03		2.77		9		P
Sodium	mg/Kg	20	1130		1050		7		P
Thallium	mg/Kg	20	0.76	J	0.73	J	4		P
Vanadium	mg/Kg	20	21.1		20.0		5		P
Zinc	mg/Kg	20	292		274		6		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Solid **Sample ID:** Q1745-09MS **Client ID:** IB-6.5-WCMSD

Percent Solids for Sample: 71.5 **Duplicate ID** Q1745-09MSD **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5740		5680		1		P
Antimony	mg/Kg	20	49.3		47.3		4		P
Arsenic	mg/Kg	20	82.2		79.3		4		P
Barium	mg/Kg	20	403		425		5		P
Beryllium	mg/Kg	20	10.8		9.94		8		P
Cadmium	mg/Kg	20	12.4		11.8		5		P
Calcium	mg/Kg	20	9880		9780		1		P
Chromium	mg/Kg	20	39.0		37.9		3		P
Cobalt	mg/Kg	20	18.7		18.1		3		P
Copper	mg/Kg	20	230		223		3		P
Iron	mg/Kg	20	18100		18400		2		P
Lead	mg/Kg	20	740		725		2		P
Magnesium	mg/Kg	20	1140		1120		2		P
Manganese	mg/Kg	20	207		204		1		P
Nickel	mg/Kg	20	57.1		55.3		3		P
Potassium	mg/Kg	20	1810		1870		3		P
Selenium	mg/Kg	20	115		110		4		P
Silver	mg/Kg	20	7.33		7.24		1		P
Sodium	mg/Kg	20	1270		1300		2		P
Thallium	mg/Kg	20	120		116		3		P
Vanadium	mg/Kg	20	37.8		37.0		2		P
Zinc	mg/Kg	20	298		289		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Sample ID:** Q1746-05 **Client ID:** B-158-GW01DUP

Percent Solids for Sample: NA **Duplicate ID** Q1746-05DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	J	0.20	J	0		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Sample ID:** Q1746-05MS **Client ID:** B-158-GW01MSD

Percent Solids for Sample: NA **Duplicate ID** Q1746-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.22		2.16		3		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Sample ID:** Q1746-06 **Client ID:** B-149-GW01DUP

Percent Solids for Sample: NA **Duplicate ID** Q1746-06DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	77300		77700		1		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	53.3		52.8		1		P
Barium	ug/L	20	144		143		1		P
Beryllium	ug/L	20	4.92		5.03		2		P
Cadmium	ug/L	20	3.00	U	0.15	J	200.0		P
Calcium	ug/L	20	37000		36900		0		P
Chromium	ug/L	20	204		204		0		P
Cobalt	ug/L	20	56.1		56.3		0		P
Copper	ug/L	20	382		387		1		P
Iron	ug/L	20	131000		127000		3		P
Lead	ug/L	20	89.6		89.9		0		P
Magnesium	ug/L	20	38600		38800		1		P
Manganese	ug/L	20	757		760		0		P
Nickel	ug/L	20	143		144		1		P
Potassium	ug/L	20	36400		35400		3		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	143000		140000		2		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	198		199		1		P
Zinc	ug/L	20	559		560		0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Sample ID:** Q1746-06MS **Client ID:** B-149-GW01MSD

Percent Solids for Sample: NA **Duplicate ID** Q1746-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	94900		62300		41	*	P
Antimony	ug/L	20	324		360		11		P
Arsenic	ug/L	20	396		412		4		P
Barium	ug/L	20	247		187		28	*	P
Beryllium	ug/L	20	81.9		89.8		9		P
Cadmium	ug/L	20	93.6		97.5		4		P
Calcium	ug/L	20	37900		23500		47	*	P
Chromium	ug/L	20	398		336		17		P
Cobalt	ug/L	20	166		143		15		P
Copper	ug/L	20	620		479		26	*	P
Iron	ug/L	20	168000		109000		43	*	P
Lead	ug/L	20	551		543		1		P
Magnesium	ug/L	20	46600		30600		41	*	P
Manganese	ug/L	20	1020		703		37	*	P
Nickel	ug/L	20	403		350		14		P
Potassium	ug/L	20	41100		26000		45	*	P
Selenium	ug/L	20	795		885		11		P
Silver	ug/L	20	22.2		26.0		16		P
Sodium	ug/L	20	144000		83200		54	*	P
Thallium	ug/L	20	829		902		8		P
Vanadium	ug/L	20	345		274		23	*	P
Zinc	ug/L	20	726		518		33	*	P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Solid **Sample ID:** Q1753-05 **Client ID:** WC-2DUP

Percent Solids for Sample: 89 **Duplicate ID** Q1753-05DUP **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.026		0.026		0		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Solid **Sample ID:** Q1753-05MS **Client ID:** WC-2MSD

Percent Solids for Sample: 89 **Duplicate ID** Q1753-05MSD **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.23		0.18		25	*	CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167490BS							
Aluminum	mg/Kg	94.8	88.7		94	80 - 120	P
Antimony	mg/Kg	37.9	38.4		101	80 - 120	P
Arsenic	mg/Kg	37.9	36.7		97	80 - 120	P
Barium	mg/Kg	9.5	7.77		82	80 - 120	P
Beryllium	mg/Kg	9.5	8.55		90	80 - 120	P
Cadmium	mg/Kg	9.5	8.72		92	80 - 120	P
Calcium	mg/Kg	47.4	44.3	J	94	80 - 120	P
Chromium	mg/Kg	19.0	18.6		98	80 - 120	P
Cobalt	mg/Kg	9.5	8.77		92	80 - 120	P
Copper	mg/Kg	14.2	14.4		101	80 - 120	P
Iron	mg/Kg	140	133		95	80 - 120	P
Lead	mg/Kg	47.4	43.5		92	80 - 120	P
Magnesium	mg/Kg	94.8	86.2	J	91	80 - 120	P
Manganese	mg/Kg	9.5	8.45		89	80 - 120	P
Nickel	mg/Kg	23.7	22.6		95	80 - 120	P
Potassium	mg/Kg	470	427		91	80 - 120	P
Selenium	mg/Kg	94.8	94.0		99	80 - 120	P
Silver	mg/Kg	3.6	3.47		96	80 - 120	P
Sodium	mg/Kg	140	127		91	80 - 120	P
Thallium	mg/Kg	94.8	91.2		96	80 - 120	P
Vanadium	mg/Kg	14.2	13.0		92	80 - 120	P
Zinc	mg/Kg	9.5	9.43		99	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167500BS							
Aluminum	ug/L	1000	928		93	80 - 120	P
Antimony	ug/L	400	404		101	80 - 120	P
Arsenic	ug/L	400	393		98	80 - 120	P
Barium	ug/L	100	93.7		94	80 - 120	P
Beryllium	ug/L	100	99.7		100	80 - 120	P
Cadmium	ug/L	100	100		100	80 - 120	P
Calcium	ug/L	500	489	J	98	80 - 120	P
Chromium	ug/L	200	193		96	80 - 120	P
Cobalt	ug/L	100	96.8		97	80 - 120	P
Copper	ug/L	150	151		101	80 - 120	P
Iron	ug/L	1500	1390		93	80 - 120	P
Lead	ug/L	500	491		98	80 - 120	P
Magnesium	ug/L	1000	934	J	93	80 - 120	P
Manganese	ug/L	100	97.4		97	80 - 120	P
Nickel	ug/L	250	242		97	80 - 120	P
Potassium	ug/L	5000	4370		87	80 - 120	P
Selenium	ug/L	1000	991		99	80 - 120	P
Silver	ug/L	37.5	35.4		94	80 - 120	P
Sodium	ug/L	1500	1250		83	80 - 120	P
Thallium	ug/L	1000	1010		101	80 - 120	P
Vanadium	ug/L	150	142		95	80 - 120	P
Zinc	ug/L	100	96.5		96	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167532BS							
Mercury	mg/Kg	0.27	0.24		90	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167569BS							
Mercury	ug/L	4.0	4.04		101	82 - 119	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

IB-6.5-WCL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135373 **Lab Sample ID :** Q1745-09L **SDG No.:** Q1746

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	5630		6110		9		P
Antimony	3.35	U	16.7	U			P
Arsenic	36.0		38.3		6		P
Barium	386		428		11		P
Beryllium	0.54		0.59	J	9		P
Cadmium	0.13	J	2.01	U	100.0		P
Calcium	9780		10900		11		P
Chromium	16.2		18.2		12		P
Cobalt	6.11		6.18	J	1		P
Copper	217		249		15		P
Iron	18500		20400		10		P
Lead	694		737		6		P
Magnesium	1030		1160		13		P
Manganese	193		218		13		P
Nickel	26.1		26.7		2		P
Potassium	1240		1260		1		P
Selenium	1.34	U	6.69	U			P
Silver	3.03		3.38		12		P
Sodium	1130		1200		6		P
Thallium	0.76	J	13.4	U	100.0		P
Vanadium	21.1		22.8		8		P
Zinc	292		334		14		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

B-158-GW01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135388 **Lab Sample ID :** Q1746-05L **SDG No.:** Q1746

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	J	1.00	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

B-149-GW01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135424 **Lab Sample ID :** Q1746-06L **SDG No.:** Q1746

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	77300		84400		9		P
Antimony	25.0	U	125	U			P
Arsenic	53.3		59.6		12		P
Barium	144		162	J	13		P
Beryllium	4.92		5.91	J	20		P
Cadmium	3.00	U	15.0	U			P
Calcium	37000		42600		15		P
Chromium	204		229		12		P
Cobalt	56.1		56.5	J	1		P
Copper	382		453		18		P
Iron	131000		140000		7		P
Lead	89.6		97.4		9		P
Magnesium	38600		43300		12		P
Manganese	757		877		16		P
Nickel	143		146		2		P
Potassium	36400		36100		1		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	143000		148000		3		P
Thallium	20.0	U	100	U			P
Vanadium	198		225		14		P
Zinc	559		619		11		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-2L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135354 **Lab Sample ID :** Q1753-05L **SDG No.:** Q1746

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.026		0.074	U	100.0		CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135354

Start date: 04/09/2025 **End date:** 04/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1106	HG
S0.2	S0.2	1	1109	HG
S2.5	S2.5	1	1111	HG
S5	S5	1	1113	HG
S7.5	S7.5	1	1115	HG
S10	S10	1	1131	HG
ICV82	ICV82	1	1134	HG
ICB82	ICB82	1	1136	HG
CCV49	CCV49	1	1143	HG
CCB49	CCB49	1	1145	HG
CRA	CRA	1	1147	HG
PB167532BL	PB167532BL	1	1158	HG
PB167532BS	PB167532BS	1	1203	HG
CCV50	CCV50	1	1217	HG
CCB50	CCB50	1	1220	HG
Q1746-01	B-149-SB01	1	1222	HG
Q1746-03	B-149-SB02	1	1225	HG
CCV51	CCV51	1	1246	HG
CCB51	CCB51	1	1248	HG
Q1753-05DUP	WC-2DUP	1	1257	HG
Q1753-05MS	WC-2MS	1	1259	HG
Q1753-05MSD	WC-2MSD	1	1302	HG
Q1753-05L	WC-2L	5	1334	HG
Q1753-05A	WC-2A	1	1336	HG
CCV52	CCV52	1	1358	HG
CCB52	CCB52	1	1404	HG
CCV53	CCV53	1	1418	HG
CCB53	CCB53	1	1421	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135373

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0930	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	0935	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	0939	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	0943	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	0947	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	0951	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1009	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1025	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1029	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1033	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1042	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1100	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1121	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1208	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09DUP	IB-6.5-WCDUP	1	1432	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09L	IB-6.5-WCL	5	1436	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1444	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1449	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09A	IB-6.5-WCA	1	1457	Be
Q1745-09MS	IB-6.5-WCMS	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09MSD	IB-6.5-WCMSD	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-01	B-149-SB01	1	1617	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-03	B-149-SB02	1	1622	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167490BL	PB167490BL	1	1626	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167490BS	PB167490BS	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1656	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1700	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1756	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1800	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	1819	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	1823	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135388

Start date: 04/11/2025 **End date:** 04/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0945	HG
S0.2	S0.2	1	0948	HG
S2.5	S2.5	1	0950	HG
S5	S5	1	0952	HG
S7.5	S7.5	1	0954	HG
S10	S10	1	1000	HG
ICV84	ICV84	1	1003	HG
ICB84	ICB84	1	1005	HG
CCV59	CCV59	1	1007	HG
CCB59	CCB59	1	1009	HG
CRA	CRA	1	1012	HG
PB167569BL	PB167569BL	1	1035	HG
CCV60	CCV60	1	1037	HG
CCB60	CCB60	1	1039	HG
PB167569BS	PB167569BS	1	1046	HG
Q1746-05	B-158-GW01	1	1056	HG
Q1746-05DUP	B-158-GW01DUP	1	1058	HG
Q1746-05MS	B-158-GW01MS	1	1100	HG
Q1746-05MSD	B-158-GW01MSD	1	1103	HG
Q1746-06	B-149-GW01	1	1105	HG
Q1746-07	EB-2025-4-7	1	1107	HG
CCV61	CCV61	1	1114	HG
CCB61	CCB61	1	1116	HG
Q1746-05L	B-158-GW01L	5	1128	HG
Q1746-05A	B-158-GW01A	1	1130	HG
CCV62	CCV62	1	1141	HG
CCB62	CCB62	1	1143	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135424

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1313	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1317	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1356	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1522	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1526	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1628	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1632	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1718	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1722	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167500BL	PB167500BL	1	1850	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167500BS	PB167500BS	1	1854	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1911	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1957	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2001	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2048	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2052	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-05	B-158-GW01	1	2056	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-06	B-149-GW01	1	2100	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-06DUP	B-149-GW01DUP	1	2105	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-06L	B-149-GW01L	5	2109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-06MS	B-149-GW01MS	1	2113	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-06MSD	B-149-GW01MSD	1	2117	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1746-06A	B-149-GW01A	1	2121	Ag,Ba,Cr,Cu,V
Q1746-07	EB-2025-4-7	1	2125	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2142	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135424

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB10	CCB10	1	2232	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV12	CCV12	1	2306	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB12	CCB12	1	2311	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/14/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/14/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	
Q1746-05	**B-158-GW01**	**Water**			**04/05/25**			**04/07/25**
			Mercury	7470A		04/10/25	04/11/25	
			Metals ICP-TAL	6010D		04/08/25	04/14/25	
Q1746-06	**B-149-GW01**	**Water**			**04/06/25**			**04/07/25**
			Mercury	7470A		04/10/25	04/11/25	
			Metals ICP-TAL	6010D		04/08/25	04/14/25	
Q1746-07	**EB-2025-4-7**	**Water**			**04/07/25**			**04/07/25**
			Mercury	7470A		04/10/25	04/11/25	
			Metals ICP-TAL	6010D		04/08/25	04/14/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1746 **SAS No.:** Q1746

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167490**						
PB167490BL	PB167490BL	MB	SOLID	04/07/2025	2.43	100.0	100.00
PB167490BS	PB167490BS	LCS	SOLID	04/07/2025	2.11	100.0	100.00
Q1745-09DUP	IB-6.5-WCDUP	DUP	SOLID	04/07/2025	2.22	100.0	71.50
Q1745-09MS	IB-6.5-WCMS	MS	SOLID	04/07/2025	2.09	100.0	71.50
Q1745-09MSD	IB-6.5-WCMSD	MSD	SOLID	04/07/2025	2.13	100.0	71.50
Q1746-01	B-149-SB01	SAM	SOLID	04/07/2025	2.14	100.0	89.30
Q1746-03	B-149-SB02	SAM	SOLID	04/07/2025	2.05	100.0	84.80

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1746 **SAS No.:** Q1746

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167500**						
PB167500BL	PB167500BL	MB	WATER	04/08/2025	50.0	25.0	
PB167500BS	PB167500BS	LCS	WATER	04/08/2025	50.0	25.0	
Q1746-05	B-158-GW01	SAM	WATER	04/08/2025	50.0	25.0	
Q1746-06	B-149-GW01	SAM	WATER	04/08/2025	50.0	25.0	
Q1746-06DUP	B-149-GW01DUP	DUP	WATER	04/08/2025	50.0	25.0	
Q1746-06MS	B-149-GW01MS	MS	WATER	04/08/2025	50.0	25.0	
Q1746-06MSD	B-149-GW01MSD	MSD	WATER	04/08/2025	50.0	25.0	
Q1746-07	EB-2025-4-7	SAM	WATER	04/08/2025	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1746 **SAS No.:** Q1746

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167532**						
PB167532BL	PB167532BL	MB	SOLID	04/08/2025	0.57	35.0	100.00
PB167532BS	PB167532BS	LCS	SOLID	04/08/2025	0.52	35.0	100.00
Q1746-01	B-149-SB01	SAM	SOLID	04/08/2025	0.54	35.0	89.30
Q1746-03	B-149-SB02	SAM	SOLID	04/08/2025	0.58	35.0	84.80
Q1753-05DUP	WC-2DUP	DUP	SOLID	04/08/2025	0.55	35.0	89.00
Q1753-05MS	WC-2MS	MS	SOLID	04/08/2025	0.52	35.0	89.00
Q1753-05MSD	WC-2MSD	MSD	SOLID	04/08/2025	0.56	35.0	89.00

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1746 **SAS No.:** Q1746

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167569**						
PB167569BL	PB167569BL	MB	WATER	04/10/2025	30.0	30.0	
PB167569BS	PB167569BS	LCS	WATER	04/10/2025	30.0	30.0	
Q1746-05	B-158-GW01	SAM	WATER	04/10/2025	30.0	30.0	
Q1746-05DUP	B-158-GW01DUP	DUP	WATER	04/10/2025	30.0	30.0	
Q1746-05MS	B-158-GW01MS	MS	WATER	04/10/2025	30.0	30.0	
Q1746-05MSD	B-158-GW01MSD	MSD	WATER	04/10/2025	30.0	30.0	
Q1746-06	B-149-GW01	SAM	WATER	04/10/2025	30.0	30.0	
Q1746-07	EB-2025-4-7	SAM	WATER	04/10/2025	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135354

Review By	jaswal	Review On	4/10/2025 10:50:44 PM
Supervise By	mohan	Supervise On	4/16/2025 4:32:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP85158,MP85159,MP85160,MP85161,MP85162,MP85163
ICV Standard	MP85164
CCV Standard	MP85166
ICSA Standard	
CRI Standard	MP85168
LCS Standard	
Chk Standard	MP85165,MP85167,MP85169,MP85174

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/09/25 11:06		mohan	OK
2	S0.2	S0.2	CAL2	04/09/25 11:09		mohan	OK
3	S2.5	S2.5	CAL3	04/09/25 11:11		mohan	OK
4	S5	S5	CAL4	04/09/25 11:13		mohan	OK
5	S7.5	S7.5	CAL5	04/09/25 11:15		mohan	OK
6	S10	S10	CAL6	04/09/25 11:31		mohan	OK
7	ICV82	ICV82	ICV	04/09/25 11:34		mohan	OK
8	ICB82	ICB82	ICB	04/09/25 11:36		mohan	OK
9	CCV49	CCV49	CCV	04/09/25 11:43		mohan	OK
10	CCB49	CCB49	CCB	04/09/25 11:45		mohan	OK
11	CRA	CRA	CRDL	04/09/25 11:47		mohan	OK
12	HighStd	HighStd	HIGH STD	04/09/25 11:50		mohan	OK
13	ChkStd	ChkStd	SAM	04/09/25 11:52		mohan	OK
14	PB167532BL	PB167532BL	MB	04/09/25 11:58		mohan	OK
15	PB167532BS	PB167532BS	LCS	04/09/25 12:03		mohan	OK
16	Q1742-01	TR-06-040725	SAM	04/09/25 12:05		mohan	OK
17	Q1744-01	B-158-SB01	SAM	04/09/25 12:08		mohan	OK
18	Q1744-03	B-158-SB02	SAM	04/09/25 12:10		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135354

Review By	jaswal	Review On	4/10/2025 10:50:44 PM
Supervise By	mohan	Supervise On	4/16/2025 4:32:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP85158,MP85159,MP85160,MP85161,MP85162,MP85163
ICV Standard	MP85164
CCV Standard	MP85166
ICSA Standard	
CRI Standard	MP85168
LCS Standard	
Chk Standard	MP85165,MP85167,MP85169,MP85174

19	Q1745-01	IB-6A-WC	SAM	04/09/25 12:12	High	mohan	Dilution
20	Q1745-09	IB-6.5-WC	SAM	04/09/25 12:14	High	mohan	Dilution
21	CCV50	CCV50	CCV	04/09/25 12:17		mohan	OK
22	CCB50	CCB50	CCB	04/09/25 12:20		mohan	OK
23	Q1746-01	B-149-SB01	SAM	04/09/25 12:22		mohan	OK
24	Q1746-03	B-149-SB02	SAM	04/09/25 12:25		mohan	OK
25	Q1747-01	ARS20-0008	SAM	04/09/25 12:27		mohan	OK
26	Q1748-01	IB-1.5-WC	SAM	04/09/25 12:29	High	mohan	Dilution
27	Q1748-05	IB-2A-WC	SAM	04/09/25 12:31		mohan	OK
28	Q1749-01	TP-14	SAM	04/09/25 12:34		mohan	OK
29	Q1752-01	TP-1	SAM	04/09/25 12:37		mohan	OK
30	Q1752-03	TP-2	SAM	04/09/25 12:39		mohan	OK
31	Q1752-05	TP-4	SAM	04/09/25 12:41		mohan	OK
32	Q1752-07	TP-3	SAM	04/09/25 12:44		mohan	OK
33	CCV51	CCV51	CCV	04/09/25 12:46		mohan	OK
34	CCB51	CCB51	CCB	04/09/25 12:48		mohan	OK
35	Q1753-01	WC-1	SAM	04/09/25 12:53		mohan	OK
36	Q1753-05	WC-2	SAM	04/09/25 12:55		mohan	OK
37	Q1753-05DUP	WC-2DUP	DUP	04/09/25 12:57		mohan	OK
38	Q1753-05MS	WC-2MS	MS	04/09/25 12:59		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135354

Review By	jaswal	Review On	4/10/2025 10:50:44 PM
Supervise By	mohan	Supervise On	4/16/2025 4:32:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP85158,MP85159,MP85160,MP85161,MP85162,MP85163
ICV Standard	MP85164
CCV Standard	MP85166
ICSA Standard	
CRI Standard	MP85168
LCS Standard	
Chk Standard	MP85165,MP85167,MP85169,MP85174

39	Q1753-05MSD	WC-2MSD	MSD	04/09/25 13:02		mohan	OK
40	Q1753-05L	WC-2L	SD	04/09/25 13:34		mohan	OK
41	Q1753-05A	WC-2A	PS	04/09/25 13:36		mohan	OK
42	Q1745-01DL	IB-6A-WCDL	SAM	04/09/25 13:41	Report 10X,Still high	mohan	Dilution
43	Q1745-09DL	IB-6.5-WCDL	SAM	04/09/25 13:48	Report 5X	mohan	Confirms
44	Q1748-01DL	IB-1.5-WCDL	SAM	04/09/25 13:56	Report 5X	mohan	Confirms
45	CCV52	CCV52	CCV	04/09/25 13:58		mohan	OK
46	CCB52	CCB52	CCB	04/09/25 14:04		mohan	OK
47	Q1745-01DL2	IB-6A-WCDL2	SAM	04/09/25 14:13	Report 50X	mohan	Confirms
48	CCV53	CCV53	CCV	04/09/25 14:18		mohan	OK
49	CCB53	CCB53	CCB	04/09/25 14:21		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 09:30		Kareem	OK
2	S1	S1	CAL2	04/10/25 09:35		Kareem	OK
3	S2	S2	CAL3	04/10/25 09:39		Kareem	OK
4	S3	S3	CAL4	04/10/25 09:43		Kareem	OK
5	S4	S4	CAL5	04/10/25 09:47		Kareem	OK
6	S5	S5	CAL6	04/10/25 09:51		Kareem	OK
7	ICV01	ICV01	ICV	04/10/25 10:09	ICV01 Fail For Be,Cd,Ca,Co,Mg,Mn,NI,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	04/10/25 10:25		Kareem	OK
9	ICB01	ICB01	ICB	04/10/25 10:29		Kareem	OK
10	CRI01	CRI01	CRDL	04/10/25 10:33		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/10/25 10:37		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/10/25 10:42		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/10/25 10:46		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/10/25 10:50		Kareem	OK
15	CCV01	CCV01	CCV	04/10/25 11:00		Kareem	OK
16	CCB01	CCB01	CCB	04/10/25 11:21		Kareem	OK
17	PB167483BL	PB167483BL	MB	04/10/25 11:26		Kareem	OK
18	PB167483BS	PB167483BS	LCS	04/10/25 11:30		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	PB167497BL	PB167497BL	MB	04/10/25 11:34		Kareem	OK
20	PB167497BS	PB167497BS	LCS	04/10/25 11:38		Kareem	OK
21	Q1715-01	WATER TREATMENT	SAM	04/10/25 11:42		Kareem	OK
22	Q1745-01	IB-6A-WC	SAM	04/10/25 11:47		Kareem	OK
23	Q1745-09	IB-6.5-WC	SAM	04/10/25 11:51		Kareem	OK
24	Q1748-01	IB-1.5-WC	SAM	04/10/25 11:55		Kareem	OK
25	Q1748-05	IB-2A-WC	SAM	04/10/25 11:59		Kareem	OK
26	Q1749-01	TP-14	SAM	04/10/25 12:03		Kareem	OK
27	CCV02	CCV02	CCV	04/10/25 12:08		Kareem	OK
28	CCB02	CCB02	CCB	04/10/25 12:12		Kareem	OK
29	Q1732-01	TT-8	SAM	04/10/25 12:17		Kareem	OK
30	Q1733-01	ETGI-328	SAM	04/10/25 12:21		Kareem	OK
31	Q1740-01	TP-20	SAM	04/10/25 12:25		Kareem	OK
32	Q1743-01	TP-16	SAM	04/10/25 12:29		Kareem	OK
33	Q1739-01	WC-LIQUID-2025040	SAM	04/10/25 12:33		Kareem	OK
34	Q1748-04	IB-1.5-WC	SAM	04/10/25 12:38		Kareem	OK
35	Q1748-08	IB-2A-WC	SAM	04/10/25 12:42		Kareem	OK
36	Q1754-02	TP-1	SAM	04/10/25 12:46		Kareem	OK
37	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 12:51		Kareem	OK
38	Q1754-01	TP-1	SAM	04/10/25 12:55		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	CCV03	CCV03	CCV	04/10/25 12:59		Kareem	OK
40	CCB03	CCB03	CCB	04/10/25 13:04		Kareem	OK
41	Q1754-03	TP-1-CONCRETE	SAM	04/10/25 13:07		Kareem	OK
42	Q1754-03DUP	TP-1-CONCRETEDUI	DUP	04/10/25 13:12		Kareem	OK
43	Q1754-03L	TP-1-CONCRETEL	SD	04/10/25 13:16		Kareem	OK
44	Q1754-03A	TP-1-CONCRETEA	PS	04/10/25 13:29		Kareem	OK
45	Q1715-01DUP	WATER TREATMENT	DUP	04/10/25 13:33		Kareem	OK
46	Q1715-01L	WATER TREATMENT	SD	04/10/25 13:38		Kareem	OK
47	Q1745-04	IB-6A-WC	SAM	04/10/25 13:42		Kareem	OK
48	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		Kareem	OK
49	CCV04	CCV04	CCV	04/10/25 13:51		Kareem	OK
50	CCB04	CCB04	CCB	04/10/25 13:55		Kareem	OK
51	Q1715-01MS	WATER TREATMENT	MS	04/10/25 13:59		Kareem	OK
52	Q1715-01MSD	WATER TREATMENT	MSD	04/10/25 14:07		Kareem	OK
53	Q1715-01A	WATER TREATMENT	PS	04/10/25 14:11		Kareem	OK
54	Q1744-01	B-158-SB01	SAM	04/10/25 14:15		Kareem	OK
55	Q1744-03	B-158-SB02	SAM	04/10/25 14:19		Kareem	OK
56	Q1754-03MS	TP-1-CONCRETEMS	MS	04/10/25 14:23		Kareem	OK
57	Q1754-03MSD	TP-1-CONCRETEMS	MSD	04/10/25 14:27		Kareem	OK
58	Q1745-09DUP	IB-6.5-WCDUP	DUP	04/10/25 14:32		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

59	Q1745-09L	IB-6.5-WCL	SD	04/10/25 14:36		Kareem	OK
60	CCV05	CCV05	CCV	04/10/25 14:44		Kareem	OK
61	CCB05	CCB05	CCB	04/10/25 14:49		Kareem	OK
62	Q1745-09A	IB-6.5-WCA	PS	04/10/25 14:57	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1745-09MS	IB-6.5-WCMS	MS	04/10/25 15:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1745-09MSD	IB-6.5-WCMSD	MSD	04/10/25 15:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	PBW04	PBW04	MB	04/10/25 15:14		Kareem	OK
66	LCSW04	LCSW04	LCS	04/10/25 15:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	PBS04	PBS04	MB	04/10/25 15:23		Kareem	OK
68	LCSS04	LCSS04	LCS	04/10/25 15:27	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
69	PBW05	PBW05	MB	04/10/25 15:31		Kareem	OK
70	PBS05	PBS05	MB	04/10/25 15:35		Kareem	OK
71	WATER MDL-4	WATER MDL-4	SAM	04/10/25 15:40		Kareem	OK
72	CCV06	CCV06	CCV	04/10/25 15:44		Kareem	OK
73	CCB06	CCB06	CCB	04/10/25 15:48		Kareem	OK
74	WATER MDL-5	WATER MDL-5	SAM	04/10/25 15:52		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

75	SOIL MDL-4	SOIL MDL-4	SAM	04/10/25 16:09		Kareem	OK
76	Q1746-01	B-149-SB01	SAM	04/10/25 16:17		Kareem	OK
77	Q1746-03	B-149-SB02	SAM	04/10/25 16:22		Kareem	OK
78	PB167490BL	PB167490BL	MB	04/10/25 16:26		Kareem	OK
79	PB167490BS	PB167490BS	LCS	04/10/25 16:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
80	PB167517TB	PB167517TB	MB	04/10/25 16:43		Kareem	OK
81	Q1744-02	B-158-SB01	SAM	04/10/25 16:47		Kareem	OK
82	Q1744-04	B-158-SB02	SAM	04/10/25 16:52	Confirm TCLP for Ba	Kareem	OK
83	CCV07	CCV07	CCV	04/10/25 16:56		Kareem	OK
84	CCB07	CCB07	CCB	04/10/25 17:00		Kareem	OK
85	Q1780-01	001-WILLETS-PT-BL	SAM	04/10/25 17:05		Kareem	OK
86	Q1780-02	002-35TH-AVE(MAR)	SAM	04/10/25 17:09		Kareem	OK
87	Q1780-02DUP	002-35TH-AVE(MAR)	DUP	04/10/25 17:13		Kareem	OK
88	Q1780-02L	002-35TH-AVE(MAR)	SD	04/10/25 17:18		Kareem	OK
89	Q1780-02MS	002-35TH-AVE(MAR)	MS	04/10/25 17:22	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1780-02MSD	002-35TH-AVE(MAR)	MSD	04/10/25 17:26	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

91	Q1780-02A	002-35TH-AVE(MAR)	PS	04/10/25 17:30	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
92	SOIL MDL-5	SOIL MDL-5	SAM	04/10/25 17:34		Kareem	OK
93	PB167554BL	PB167554BL	MB	04/10/25 17:39		Kareem	OK
94	PB167554BS	PB167554BS	LCS	04/10/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	CCV08	CCV08	CCV	04/10/25 17:56		Kareem	OK
96	CCB08	CCB08	CCB	04/10/25 18:00		Kareem	OK
97	LR1	LR1	HIGH STD	04/10/25 18:05		Kareem	OK
98	LR2	LR2	HIGH STD	04/10/25 18:10		Kareem	OK
99	CCV09	CCV09	CCV	04/10/25 18:19		Kareem	OK
100	CCB09	CCB09	CCB	04/10/25 18:23		Kareem	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135388

Review By	mohan	Review On	4/14/2025 8:08:06 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:48 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85196

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/11/25 09:45		mohan	OK
2	S0.2	S0.2	CAL2	04/11/25 09:48		mohan	OK
3	S2.5	S2.5	CAL3	04/11/25 09:50		mohan	OK
4	S5	S5	CAL4	04/11/25 09:52		mohan	OK
5	S7.5	S7.5	CAL5	04/11/25 09:54		mohan	OK
6	S10	S10	CAL6	04/11/25 10:00		mohan	OK
7	ICV84	ICV84	ICV	04/11/25 10:03		mohan	OK
8	ICB84	ICB84	ICB	04/11/25 10:05		mohan	OK
9	CCV59	CCV59	CCV	04/11/25 10:07		mohan	OK
10	CCB59	CCB59	CCB	04/11/25 10:09		mohan	OK
11	CRA	CRA	CRDL	04/11/25 10:12		mohan	OK
12	HighStd	HighStd	HIGH STD	04/11/25 10:14		mohan	OK
13	ChkStd	ChkStd	SAM	04/11/25 10:16		mohan	OK
14	PB167568BL	PB167568BL	MB	04/11/25 10:18		mohan	OK
15	PB167568BS	PB167568BS	LCS	04/11/25 10:23		mohan	OK
16	Q1739-02	WC-LIQUID-2025040	SAM	04/11/25 10:26		mohan	OK
17	Q1739-02DUP	WC-LIQUID-2025040	DUP	04/11/25 10:28		mohan	OK
18	Q1739-02MS	WC-LIQUID-2025040	MS	04/11/25 10:30		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135388

Review By	mohan	Review On	4/14/2025 8:08:06 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:48 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85196

19	PB167569BL	PB167569BL	MB	04/11/25 10:35		mohan	OK
20	CCV60	CCV60	CCV	04/11/25 10:37		mohan	OK
21	CCB60	CCB60	CCB	04/11/25 10:39		mohan	OK
22	PB167569BS	PB167569BS	LCS	04/11/25 10:46		mohan	OK
23	Q1739-01	WC-LIQUID-2025040	SAM	04/11/25 10:49		mohan	OK
24	Q1746-05	B-158-GW01	SAM	04/11/25 10:56		mohan	OK
25	Q1746-05DUP	B-158-GW01DUP	DUP	04/11/25 10:58		mohan	OK
26	Q1746-05MS	B-158-GW01MS	MS	04/11/25 11:00		mohan	OK
27	Q1746-05MSD	B-158-GW01MSD	MSD	04/11/25 11:03		mohan	OK
28	Q1746-06	B-149-GW01	SAM	04/11/25 11:05		mohan	OK
29	Q1746-07	EB-2025-4-7	SAM	04/11/25 11:07		mohan	OK
30	Q1774-02	TT-073-IDWGW-2025	SAM	04/11/25 11:09		mohan	OK
31	Q1774-03	TT-074-IDWGW-2025	SAM	04/11/25 11:12		mohan	OK
32	CCV61	CCV61	CCV	04/11/25 11:14		mohan	OK
33	CCB61	CCB61	CCB	04/11/25 11:16		mohan	OK
34	Q1774-04	TT-075-IDWGW-2025	SAM	04/11/25 11:19		mohan	OK
35	PB167488TB	PB167488TB	MB	04/11/25 11:21		mohan	OK
36	Q1739-02L	WC-LIQUID-2025040	SD	04/11/25 11:23		mohan	OK
37	Q1739-02A	WC-LIQUID-2025040	PS	04/11/25 11:25		mohan	OK
38	Q1746-05L	B-158-GW01L	SD	04/11/25 11:28		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135388

Review By	mohan	Review On	4/14/2025 8:08:06 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:48 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85196

39	Q1746-05A	B-158-GW01A	PS	04/11/25 11:30		mohan	OK
40	Q1739-02MSD	WC-LIQUID-2025040	MSD	04/11/25 11:39		mohan	OK
41	CCV62	CCV62	CCV	04/11/25 11:41		mohan	OK
42	CCB62	CCB62	CCB	04/11/25 11:43		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/14/25 13:13		Kareem	OK
2	S1	S1	CAL2	04/14/25 13:17		Kareem	OK
3	S2	S2	CAL3	04/14/25 13:22		Kareem	OK
4	S3	S3	CAL4	04/14/25 13:26		Kareem	OK
5	S4	S4	CAL5	04/14/25 13:30		Kareem	OK
6	S5	S5	CAL6	04/14/25 13:34		Kareem	OK
7	ICV01	ICV01	ICV	04/14/25 13:56		Kareem	OK
8	LLICV01	LLICV01	LLICV	04/14/25 14:01		Kareem	OK
9	ICB01	ICB01	ICB	04/14/25 14:05		Kareem	OK
10	CRI01	CRI01	CRDL	04/14/25 14:09		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/14/25 14:14		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/14/25 14:18		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/14/25 14:22		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/14/25 14:27		Kareem	OK
15	CCV01	CCV01	CCV	04/14/25 14:31		Kareem	OK
16	CCB01	CCB01	CCB	04/14/25 14:35		Kareem	OK
17	Q1743-04	TP-16	SAM	04/14/25 14:39		Kareem	OK
18	Q1743-04DUP	TP-16DUP	DUP	04/14/25 14:44		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	Q1743-04L	TP-16L	SD	04/14/25 14:48		Kareem	OK
20	Q1743-04MS	TP-16MS	MS	04/14/25 14:52		Kareem	OK
21	Q1743-04MSD	TP-16MSD	MSD	04/14/25 14:57		Kareem	OK
22	Q1743-04A	TP-16A	PS	04/14/25 15:01		Kareem	OK
23	Q1774-02	TT-073-IDWGW-2025	SAM	04/14/25 15:05		Kareem	OK
24	Q1774-03	TT-074-IDWGW-2025	SAM	04/14/25 15:09		Kareem	OK
25	Q1774-04	TT-075-IDWGW-2025	SAM	04/14/25 15:14		Kareem	OK
26	Q1774-02DUP	TT-073-IDWGW-2025	DUP	04/14/25 15:18		Kareem	OK
27	CCV02	CCV02	CCV	04/14/25 15:22		Kareem	OK
28	CCB02	CCB02	CCB	04/14/25 15:26		Kareem	OK
29	Q1774-02L	TT-073-IDWGW-2025	SD	04/14/25 15:31		Kareem	OK
30	Q1774-02MS	TT-073-IDWGW-2025	MS	04/14/25 15:35		Kareem	OK
31	Q1774-02MSD	TT-073-IDWGW-2025	MSD	04/14/25 15:39		Kareem	OK
32	Q1774-02A	TT-073-IDWGW-2025	PS	04/14/25 15:43		Kareem	OK
33	Q1705-04	ETGI-327	SAM	04/14/25 15:47		Kareem	OK
34	Q1705-05	ETGI-275	SAM	04/14/25 15:52		Kareem	OK
35	PB167533BL	PB167533BL	MB	04/14/25 15:56		Kareem	OK
36	PB167533BS	PB167533BS	LCS	04/14/25 16:01		Kareem	OK
37	Q1753-04	WC-1	SAM	04/14/25 16:05		Kareem	OK
38	Q1753-08	WC-2	SAM	04/14/25 16:09		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	CCV03	CCV03	CCV	04/14/25 16:28		Kareem	OK
40	CCB03	CCB03	CCB	04/14/25 16:32		Kareem	OK
41	Q1753-01	WC-1	SAM	04/14/25 16:37		Kareem	OK
42	Q1753-05	WC-2	SAM	04/14/25 16:41		Kareem	OK
43	Q1768-01	CRUSHED STONE	SAM	04/14/25 16:45	Zn high	Kareem	Dilution
44	Q1756-01	TP-9	SAM	04/14/25 16:49		Kareem	OK
45	Q1760-01	TP-17	SAM	04/14/25 16:53		Kareem	OK
46	Q1760-05	TP-15	SAM	04/14/25 16:57		Kareem	OK
47	Q1779-01	TP-22	SAM	04/14/25 17:01		Kareem	OK
48	Q1779-05	TP-23	SAM	04/14/25 17:06		Kareem	OK
49	Q1779-05DUP	TP-23DUP	DUP	04/14/25 17:10		Kareem	OK
50	Q1779-05L	TP-23L	SD	04/14/25 17:14		Kareem	OK
51	CCV04	CCV04	CCV	04/14/25 17:18		Kareem	OK
52	CCB04	CCB04	CCB	04/14/25 17:22		Kareem	OK
53	Q1779-05MS	TP-23MS	MS	04/14/25 17:27		Kareem	OK
54	Q1779-05MSD	TP-23MSD	MSD	04/14/25 17:31		Kareem	OK
55	Q1779-05A	TP-23A	PS	04/14/25 17:35		Kareem	OK
56	Q1781-01	WC-13	SAM	04/14/25 17:39		Kareem	OK
57	Q1781-05	WC-12	SAM	04/14/25 17:43		Kareem	OK
58	Q1781-09	WC-11	SAM	04/14/25 17:48		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

59	PB167567BL	PB167567BL	MB	04/14/25 17:52		Kareem	OK
60	PB167567BS	PB167567BS	LCS	04/14/25 17:56		Kareem	OK
61	PB167482BL	PB167482BL	MB	04/14/25 18:00		Kareem	OK
62	PB167482BS	PB167482BS	LCS	04/14/25 18:12		Kareem	OK
63	CCV05	CCV05	CCV	04/14/25 18:16		Kareem	OK
64	CCB05	CCB05	CCB	04/14/25 18:20		Kareem	OK
65	PB167530BL	PB167530BL	MB	04/14/25 18:25		Kareem	OK
66	PB167530BS	PB167530BS	LCS	04/14/25 18:29		Kareem	OK
67	PB167548BL	PB167548BL	MB	04/14/25 18:33		Kareem	OK
68	PB167548BS	PB167548BS	LCS	04/14/25 18:38		Kareem	OK
69	PB167566BL	PB167566BL	MB	04/14/25 18:42		Kareem	OK
70	PB167566BS	PB167566BS	LCS	04/14/25 18:46		Kareem	OK
71	PB167500BL	PB167500BL	MB	04/14/25 18:50		Kareem	OK
72	PB167500BS	PB167500BS	LCS	04/14/25 18:54		Kareem	OK
73	Q1768-01DL	CRUSHED STONEDL	SAM	04/14/25 18:58	5X for Zn	Kareem	Confirms
74	Q1730-01	OU4-VSL-15-040325	SAM	04/14/25 19:02		Kareem	OK
75	CCV06	CCV06	CCV	04/14/25 19:07		Kareem	OK
76	CCB06	CCB06	CCB	04/14/25 19:11		Kareem	OK
77	Q1730-03	OU4-VSL-16-040325	SAM	04/14/25 19:15		Kareem	OK
78	Q1730-05	OU4-VSL-17-040325	SAM	04/14/25 19:19		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

79	Q1730-07	OU4-PCS-TC-21-040	SAM	04/14/25 19:23		Kareem	OK
80	Q1730-09	OU4-PCS-TC-22-040	SAM	04/14/25 19:27		Kareem	OK
81	Q1730-11	OU4-PCS-TC-23-040	SAM	04/14/25 19:32		Kareem	OK
82	Q1730-13	OU4-PCS-TC-24-040	SAM	04/14/25 19:36		Kareem	OK
83	Q1730-15	OU4-PCS-TC-25-040	SAM	04/14/25 19:40		Kareem	OK
84	Q1730-17	OU4-PCS-TC-26-040	SAM	04/14/25 19:44		Kareem	OK
85	Q1730-19	OU4-CF-15-040325	SAM	04/14/25 19:49		Kareem	OK
86	Q1736-01	GST1	SAM	04/14/25 19:53		Kareem	OK
87	CCV07	CCV07	CCV	04/14/25 19:57		Kareem	OK
88	CCB07	CCB07	CCB	04/14/25 20:01		Kareem	OK
89	Q1736-02	GST2	SAM	04/14/25 20:05		Kareem	OK
90	Q1738-01	OK-02-040425	SAM	04/14/25 20:10		Kareem	OK
91	Q1738-01DUP	OK-02-040425DUP	DUP	04/14/25 20:14		Kareem	OK
92	Q1738-01L	OK-02-040425L	SD	04/14/25 20:18		Kareem	OK
93	Q1738-01MS	OK-02-040425MS	MS	04/14/25 20:22		Kareem	OK
94	Q1738-01MSD	OK-02-040425MSD	MSD	04/14/25 20:26		Kareem	OK
95	Q1738-01A	OK-02-040425A	PS	04/14/25 20:30		Kareem	OK
96	Q1746-02	B-149-SB01	SAM	04/14/25 20:34		Kareem	OK
97	Q1746-04	B-149-SB02	SAM	04/14/25 20:39		Kareem	OK
98	Q1749-04	TP-14	SAM	04/14/25 20:43		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

99	CCV08	CCV08	CCV	04/14/25 20:48		Kareem	OK
100	CCB08	CCB08	CCB	04/14/25 20:52		Kareem	OK
101	Q1746-05	B-158-GW01	SAM	04/14/25 20:56		Kareem	OK
102	Q1746-06	B-149-GW01	SAM	04/14/25 21:00		Kareem	OK
103	Q1746-06DUP	B-149-GW01DUP	DUP	04/14/25 21:05		Kareem	OK
104	Q1746-06L	B-149-GW01L	SD	04/14/25 21:09		Kareem	OK
105	Q1746-06MS	B-149-GW01MS	MS	04/14/25 21:13		Kareem	OK
106	Q1746-06MSD	B-149-GW01MSD	MSD	04/14/25 21:17		Kareem	OK
107	Q1746-06A	B-149-GW01A	PS	04/14/25 21:21		Kareem	OK
108	Q1746-07	EB-2025-4-7	SAM	04/14/25 21:25		Kareem	OK
109	Q1771-01	TP-6C	SAM	04/14/25 21:30		Kareem	OK
110	Q1771-05	TP-7C	SAM	04/14/25 21:34		Kareem	OK
111	CCV09	CCV09	CCV	04/14/25 21:38		Kareem	OK
112	CCB09	CCB09	CCB	04/14/25 21:42		Kareem	OK
113	Q1771-09	TP-3A	SAM	04/14/25 21:46		Kareem	OK
114	Q1771-09DUP	TP-3ADUP	DUP	04/14/25 21:50		Kareem	OK
115	Q1771-09L	TP-3AL	SD	04/14/25 21:55		Kareem	OK
116	Q1771-09MS	TP-3AMS	MS	04/14/25 21:59		Kareem	OK
117	Q1771-09MSD	TP-3AMSD	MSD	04/14/25 22:03		Kareem	OK
118	Q1771-09A	TP-3AA	PS	04/14/25 22:07		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

119	Q1769-08	EB01-040925	SAM	04/14/25 22:11		Kareem	OK
120	Q1752-01	TP-1	SAM	04/14/25 22:15		Kareem	OK
121	Q1752-03	TP-2	SAM	04/14/25 22:19		Kareem	OK
122	Q1752-05	TP-4	SAM	04/14/25 22:23		Kareem	OK
123	CCV10	CCV10	CCV	04/14/25 22:28		Kareem	OK
124	CCB10	CCB10	CCB	04/14/25 22:32		Kareem	OK
125	Q1752-07	TP-3	SAM	04/14/25 22:36		Kareem	OK
126	CCV11	CCV11	CCV	04/14/25 22:40		Kareem	OK
127	CCB11	CCB11	CCB	04/14/25 22:44		Kareem	OK
128	Q1752-02	TP-1	SAM	04/14/25 22:49		Kareem	OK
129	Q1752-04	TP-2	SAM	04/14/25 22:53		Kareem	OK
130	Q1752-06	TP-4	SAM	04/14/25 22:57		Kareem	OK
131	Q1752-08	TP-3	SAM	04/14/25 23:02		Kareem	OK
132	CCV12	CCV12	CCV	04/14/25 23:06	Fail for Na	Kareem	OK
133	CCB12	CCB12	CCB	04/14/25 23:11		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167490

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 04/07/2025 **Time :** 14:05 **Temp :** 96 °C

End Digest Date: 04/07/2025 **Time :** 16:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLDS.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6003
LFS-2	1.00	M6012
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP84041
Conc. HNO3	5.00	M6158
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 2 CELL 35 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/07/25 17:10	SLDS. mcb 4/9	SM (Metals Lab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167490

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB167490BL	PBS490	N/A	2.43	100	Colorless	Colorless	Fine	N/A	N/A	1
PB167490BS	LCS490	N/A	2.11	100	Colorless	Colorless	Fine	N/A	M6003,M6012	2
Q1744-01	B-158-SB01	N/A	2.03	100	Colorless	Colorless	Fine	N/A	N/A	3
Q1744-03	B-158-SB02	N/A	2.10	100	Colorless	Colorless	Fine	N/A	N/A	4
Q1745-01	IB-6A-WC	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	5
Q1745-09	IB-6.5-WC	N/A	2.09	100	Gray	Yellow	Medium	N/A	N/A	6
Q1745-09MS	IB-6.5-WCMS	N/A	2.09	100	Gray	Yellow	Medium	N/A	M6003,M6012	8
Q1745-09MSD	IB-6.5-WCMSD	N/A	2.13	100	Gray	Yellow	Medium	N/A	M6003,M6012	9
Q1745-09DUP	IB-6.5-WCDUP	N/A	2.22	100	Gray	Yellow	Medium	N/A	N/A	7
Q1746-01	B-149-SB01	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	10
Q1746-03	B-149-SB02	N/A	2.05	100	Brown	Yellow	Medium	N/A	N/A	11

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167500

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 04/08/2025 **Time :** 09:40 **Temp :** 96 °C

End Digest Date: 04/08/2025 **Time :** 12:50 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6003
LFS-2	0.25	M6012
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 1 CELL 50 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04108/25 13:50	SKG. met. dig.	metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167500

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167500BL	PBW500	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB167500BS	LCS500	<2	50	25	Colorless	Colorless	Clear	Clear	M6003,M6012	2
Q1746-05	B-158-GW01	<2	50	25	Black	Light Brown	Clear	Clear	N/A	3
Q1746-06	B-149-GW01	<2	50	25	Black	Light Brown	Clear	Clear	N/A	4
Q1746-06MS	B-149-GW01MS	<2	50	25	Brown	ligh Btrown	Cloudy	Clear	M6003,M6012	6
Q1746-06MSD	B-149-GW01MSD	<2	50	25	Brown	ligh Btrown	Cloudy	Clear	M6003,M6012	7
Q1746-06DUP	B-149-GW01DUP	<2	50	25	Brown	ligh Btrown	Cloudy	Clear	N/A	5
Q1746-07	EB-2025-4-7	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	8

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167532

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 04/08/2025 **Time :** 16:50 **Temp :** 94 °C

End Digest Date: 04/08/2025 **Time :** 17:20 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85164
CCV	30mL	MP85166
CRA	30mL	MP85168
Blank Spike	0.48mL	MP85157
Matrix Spike	0.48mL	MP85157

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	N/A
KMnO4 (5%)	4.5mL	MP84564
Hydroxylamine HCL (12%)	2.0mL	MP84566
PTFE Boiling Stones	----------	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85158
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85159
2.5 ppb	S2.5	30mL	MP85160
5.0 ppb	S5.0	30mL	MP85161
7.5 ppb	S7.5	30mL	MP85162
10.0 ppb	S10.0	30mL	MP85163
ICV	ICV	30mL	MP85164
ICB	ICB	30mL	MP85165
CCV	CCV	30mL	MP85166
CCB	CCB	30mL	MP85167
CRI	CRI	30mL	MP85168
CHK STD	CHK STD	30mL	MP85169

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/8/25 @ 17:10	[signature] - HG. Lab	[signature] - Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167532

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB167532BL	PBS532	0.57	35	NA	N/A	3-1
PB167532BS	LCS532	0.52	35	NA	MP85157	2
Q1742-01	TR-06-040725	0.56	35	NA	N/A	3
Q1744-01	B-158-SB01	0.57	35	NA	N/A	4
Q1744-03	B-158-SB02	0.57	35	NA	N/A	5
Q1745-01	IB-6A-WC	0.51	35	NA	N/A	6
Q1745-09	IB-6.5-WC	0.50	35	NA	N/A	7
Q1746-01	B-149-SB01	0.54	35	NA	N/A	8
Q1746-03	B-149-SB02	0.58	35	NA	N/A	9
Q1747-01	ARS20-0008	0.57	35	NA	N/A	10
Q1748-01	IB-1.5-WC	0.52	35	NA	N/A	11
Q1748-05	IB-2A-WC	0.52	35	NA	N/A	12
Q1749-01	TP-14	0.55	35	NA	N/A	13
Q1752-01	TP-1	0.55	35	NA	N/A	14
Q1752-03	TP-2	0.56	35	NA	N/A	15
Q1752-05	TP-3	0.59	35	NA	N/A	16
Q1752-07	TP-4	0.50	35	NA	N/A	17
Q1753-01	WC-1	0.53	35	NA	N/A	18
Q1753-05	WC-2	0.53	35	NA	N/A	19
Q1753-05DUP	WC-2DUP	0.55	35	NA	N/A	20
Q1753-05MS	WC-2MS	0.52	35	NA	MP85157	21
Q1753-05MSD	WC-2MSD	0.56	35	NA	MP85157	22

A B C D E F G H I J

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167569

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 04/10/2025 **Time :** 14:20 **Temp :** 95 °C

End Digest Date: 04/10/2025 **Time :** 16:20 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JZ

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85182
CCV	30mL	MP85184
CRA	30mL	MP85186
Blank Spike	0.48mL	MP85175
Matrix Spike	0.48mL	MP85175

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85176
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85177
2.5 ppb	S2.5	30mL	MP85178
5.0 ppb	S5.0	30mL	MP85179
7.5 ppb	S7.5	30mL	MP85180
10.0 ppb	S10.0	30mL	MP85181
ICV	ICV	30mL	MP85182
ICB	ICB	30mL	MP85183
CCV	CCV	30mL	MP85184
CCB	CCB	30mL	MP85185
CRI	CRI	30mL	MP85186
CHK STD	CHK STD	30mL	MP85187

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/10/25 @ 17:10	MB - DIG - Lab	MB - Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167569

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167569BL	PBW569	30	30	<2	N/A	3-19
PB167569BS	LCS569	30	30	<2	MP85175	20
Q1739-01	WC-LIQUID-20250404	30	30	<2	N/A	21
Q1746-05	B-158-GW01	30	30	<2	N/A	22
Q1746-05DUP	B-158-GW01DUP	30	30	<2	N/A	23
Q1746-05MS	B-158-GW01MS	30	30	<2	MP85175	24
Q1746-05MSD	B-158-GW01MSD	30	30	<2	MP85175	25
Q1746-06	B-149-GW01	30	30	<2	N/A	26
Q1746-07	EB-2025-4-7	30	30	<2	N/A	27
Q1774-02	TT-073-IDWGW-20250409	30	30	<2	N/A	28
Q1774-03	TT-074-IDWGW-20250409	30	30	<2	N/A	29
Q1774-04	TT-075-IDWGW-20250409	30	30	<2	N/A	30

A
B
C
D
E
F
G
H
I
J

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Hit Summary Sheet
SW-846

SDG No.: Q1746 **Order ID:** Q1746

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-149-SB01								
Q1746-02	B-149-SB01	TCLP	Barium	952		62.8	500	ug/L
Q1746-02	B-149-SB01	TCLP	Cadmium	2.20	J	0.94	30.0	ug/L
Q1746-02	B-149-SB01	TCLP	Lead	116		35.1	60.0	ug/L
Client ID : B-149-SB02								
Q1746-04	B-149-SB02	TCLP	Barium	437	J	62.8	500	ug/L
Q1746-04	B-149-SB02	TCLP	Chromium	8.09	J	6.60	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	04/09/25 12:30	04/14/25 20:34	SW6010	SW3050
7440-39-3	Barium	952	N	1	62.8	500	ug/L	04/09/25 12:30	04/14/25 20:34	SW6010	SW3050
7440-43-9	Cadmium	2.20	J	1	0.94	30.0	ug/L	04/09/25 12:30	04/14/25 20:34	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	04/09/25 12:30	04/14/25 20:34	SW6010	SW3050
7439-92-1	Lead	116		1	35.1	60.0	ug/L	04/09/25 12:30	04/14/25 20:34	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/10/25 09:45	04/10/25 13:50	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	04/09/25 12:30	04/14/25 20:34	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	04/09/25 12:30	04/14/25 20:34	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-04	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	04/09/25 12:30	04/14/25 20:39	SW6010	SW3050
7440-39-3	Barium	437	JN	1	62.8	500	ug/L	04/09/25 12:30	04/14/25 20:39	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	04/09/25 12:30	04/14/25 20:39	SW6010	SW3050
7440-47-3	Chromium	8.09	J	1	6.60	50.0	ug/L	04/09/25 12:30	04/14/25 20:39	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	04/09/25 12:30	04/14/25 20:39	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/10/25 09:45	04/10/25 13:52	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	04/09/25 12:30	04/14/25 20:39	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	04/09/25 12:30	04/14/25 20:39	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB83	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:03	LB135365

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:08	LB135365
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:41	LB135365
CCB55	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	14:08	LB135365
CCB56	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	14:38	LB135365
CCB57	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	15:08	LB135365
CCB58	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	15:28	LB135365

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	10:29	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	10:29	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	11:21	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	11:21	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	12:12	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	12:12	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:04	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:04	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:55	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:55	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	14:49	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	14:49	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	15:48	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	15:48	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	17:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	17:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:23	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:23	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:05	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:05	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:05	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:35	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:35	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:35	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	15:26	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	15:26	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	15:26	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	16:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	16:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	16:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	17:22	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	17:22	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	17:22	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	18:20	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	18:20	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	18:20	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	19:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	19:11	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	19:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:01	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:01	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:01	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:52	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:52	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:52	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	21:42	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	21:42	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	21:42	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
CCB11	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:44	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:44	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:44	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
CCB12	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB12	Barium	100	+/-100	U	100	P	04/14/2025	23:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	23:11	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	23:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167517TB		**WATER**		**Batch Number:**	**PB167539**		**Prep Date:**	**04/10/2025**	
	Mercury	2.00	<2.00	U	2.00	CV	04/10/2025	15:12	LB135365
PB167539BL		**WATER**		**Batch Number:**	**PB167539**		**Prep Date:**	**04/10/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	04/10/2025	13:17	LB135365

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167517TB		**WATER**		**Batch Number:**	**PB167533**		**Prep Date:**	**04/09/2025**	
	Arsenic	100	<100	U	100	P	04/10/2025	16:43	LB135373
	Barium	500	<500	U	500	P	04/10/2025	16:43	LB135373
	Cadmium	30.0	<30.0	U	30.0	P	04/10/2025	16:43	LB135373
	Chromium	50.0	<50.0	U	50.0	P	04/10/2025	16:43	LB135373
	Lead	60.0	<60.0	U	60.0	P	04/10/2025	16:43	LB135373
	Selenium	100	<100	U	100	P	04/10/2025	16:43	LB135373
	Silver	50.0	<50.0	U	50.0	P	04/10/2025	16:43	LB135373

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167533BL		**WATER**		**Batch Number:**	**PB167533**		**Prep Date:**	**04/09/2025**	
	Arsenic	100	<100	U	100	P	04/14/2025	15:56	LB135424
	Barium	500	<500	U	500	P	04/14/2025	15:56	LB135424
	Cadmium	30.0	<30.0	U	30.0	P	04/14/2025	15:56	LB135424
	Chromium	50.0	<50.0	U	50.0	P	04/14/2025	15:56	LB135424
	Lead	60.0	<60.0	U	60.0	P	04/14/2025	15:56	LB135424
	Selenium	100	<100	U	100	P	04/14/2025	15:56	LB135424
	Silver	50.0	<50.0	U	50.0	P	04/14/2025	15:56	LB135424

METAL CALIBRATION DATA

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV83	Mercury	4.06	4.0	102	90 - 110	CV	04/10/2025	13:01	LB135365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV53	Mercury	4.98	5.0	100	90 - 110	CV	04/10/2025	13:06	LB135365
CCV54	Mercury	4.95	5.0	99	90 - 110	CV	04/10/2025	13:38	LB135365
CCV55	Mercury	4.88	5.0	98	90 - 110	CV	04/10/2025	14:06	LB135365
CCV56	Mercury	4.94	5.0	99	90 - 110	CV	04/10/2025	14:36	LB135365
CCV57	Mercury	4.81	5.0	96	90 - 110	CV	04/10/2025	15:06	LB135365
CCV58	Mercury	5.01	5.0	100	90 - 110	CV	04/10/2025	15:26	LB135365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	985	1000	98	90 - 110	P	04/10/2025	10:09	LB135373
	Barium	534	520	103	90 - 110	P	04/10/2025	10:09	LB135373
	Cadmium	483	510	95	90 - 110	P	04/10/2025	10:09	LB135373
	Chromium	505	520	97	90 - 110	P	04/10/2025	10:09	LB135373
	Lead	951	1000	95	90 - 110	P	04/10/2025	10:09	LB135373
	Selenium	1030	1000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Silver	245	250	98	90 - 110	P	04/10/2025	10:09	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	18.5	20.0	92	80 - 120	P	04/10/2025	10:25	LB135373
	Barium	85.5	100	86	80 - 120	P	04/10/2025	10:25	LB135373
	Cadmium	5.62	6.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Chromium	9.56	10.0	96	80 - 120	P	04/10/2025	10:25	LB135373
	Lead	9.94	12.0	83	80 - 120	P	04/10/2025	10:25	LB135373
	Selenium	18.9	20.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Silver	10.5	10.0	104	80 - 120	P	04/10/2025	10:25	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4750	5000	95	90 - 110	P	04/10/2025	11:00	LB135373
	Barium	9770	10000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Cadmium	2340	2500	94	90 - 110	P	04/10/2025	11:00	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	11:00	LB135373
	Lead	5240	5000	105	90 - 110	P	04/10/2025	11:00	LB135373
	Selenium	4820	5000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Silver	1250	1250	100	90 - 110	P	04/10/2025	11:00	LB135373
CCV02	Arsenic	4800	5000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Barium	9680	10000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	12:08	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:08	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	12:08	LB135373
	Selenium	4860	5000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	12:08	LB135373
CCV03	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	12:59	LB135373
	Barium	10100	10000	101	90 - 110	P	04/10/2025	12:59	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	12:59	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:59	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	12:59	LB135373
	Selenium	4990	5000	100	90 - 110	P	04/10/2025	12:59	LB135373
	Silver	1270	1250	101	90 - 110	P	04/10/2025	12:59	LB135373
CCV04	Arsenic	4880	5000	98	90 - 110	P	04/10/2025	13:51	LB135373
	Barium	9600	10000	96	90 - 110	P	04/10/2025	13:51	LB135373
	Cadmium	2380	2500	95	90 - 110	P	04/10/2025	13:51	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	13:51	LB135373
	Lead	4760	5000	95	90 - 110	P	04/10/2025	13:51	LB135373
	Selenium	4960	5000	99	90 - 110	P	04/10/2025	13:51	LB135373
	Silver	1270	1250	102	90 - 110	P	04/10/2025	13:51	LB135373
CCV05	Arsenic	4820	5000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	14:44	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	14:44	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	14:44	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	14:44	LB135373
	Selenium	4910	5000	98	90 - 110	P	04/10/2025	14:44	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1270	1250	101	90 - 110	P	04/10/2025	14:44	LB135373
CCV06	Arsenic	4780	5000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Barium	9640	10000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Cadmium	2340	2500	93	90 - 110	P	04/10/2025	15:44	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	15:44	LB135373
	Lead	4690	5000	94	90 - 110	P	04/10/2025	15:44	LB135373
	Selenium	4850	5000	97	90 - 110	P	04/10/2025	15:44	LB135373
	Silver	1260	1250	100	90 - 110	P	04/10/2025	15:44	LB135373
CCV07	Arsenic	4920	5000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Barium	9570	10000	96	90 - 110	P	04/10/2025	16:56	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	16:56	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	16:56	LB135373
	Selenium	5020	5000	100	90 - 110	P	04/10/2025	16:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	16:56	LB135373
CCV08	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	17:56	LB135373
	Barium	9470	10000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	17:56	LB135373
	Chromium	1030	1000	103	90 - 110	P	04/10/2025	17:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Selenium	4980	5000	100	90 - 110	P	04/10/2025	17:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	17:56	LB135373
CCV09	Arsenic	4850	5000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	18:19	LB135373
	Chromium	1000	1000	100	90 - 110	P	04/10/2025	18:19	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	18:19	LB135373
	Selenium	4930	5000	99	90 - 110	P	04/10/2025	18:19	LB135373
	Silver	1240	1250	99	90 - 110	P	04/10/2025	18:19	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1060	1000	106	90 - 110	P	04/14/2025	13:56	LB135424
	Barium	534	520	103	90 - 110	P	04/14/2025	13:56	LB135424
	Cadmium	507	510	99	90 - 110	P	04/14/2025	13:56	LB135424
	Chromium	507	520	98	90 - 110	P	04/14/2025	13:56	LB135424
	Lead	1000	1000	100	90 - 110	P	04/14/2025	13:56	LB135424
	Selenium	1050	1000	105	90 - 110	P	04/14/2025	13:56	LB135424
	Silver	246	250	98	90 - 110	P	04/14/2025	13:56	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	22.8	20.0	114	80 - 120	P	04/14/2025	14:01	LB135424
	Barium	96.1	100	96	80 - 120	P	04/14/2025	14:01	LB135424
	Cadmium	6.12	6.0	102	80 - 120	P	04/14/2025	14:01	LB135424
	Chromium	9.81	10.0	98	80 - 120	P	04/14/2025	14:01	LB135424
	Lead	12.4	12.0	103	80 - 120	P	04/14/2025	14:01	LB135424
	Selenium	19.0	20.0	95	80 - 120	P	04/14/2025	14:01	LB135424
	Silver	10.0	10.0	100	80 - 120	P	04/14/2025	14:01	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4910	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Barium	9640	10000	96	90 - 110	P	04/14/2025	14:31	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	14:31	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	14:31	LB135424
	Selenium	4930	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Silver	1250	1250	100	90 - 110	P	04/14/2025	14:31	LB135424
CCV02	Arsenic	4930	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	15:22	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	15:22	LB135424
	Chromium	995	1000	100	90 - 110	P	04/14/2025	15:22	LB135424
	Lead	4930	5000	98	90 - 110	P	04/14/2025	15:22	LB135424
	Selenium	4970	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Silver	1230	1250	98	90 - 110	P	04/14/2025	15:22	LB135424
CCV03	Arsenic	4890	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Barium	9870	10000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	16:28	LB135424
	Chromium	983	1000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Lead	4930	5000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Selenium	4900	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Silver	1230	1250	99	90 - 110	P	04/14/2025	16:28	LB135424
CCV04	Arsenic	4920	5000	98	90 - 110	P	04/14/2025	17:18	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	17:18	LB135424
	Cadmium	2480	2500	99	90 - 110	P	04/14/2025	17:18	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	17:18	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Selenium	4950	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Silver	1240	1250	99	90 - 110	P	04/14/2025	17:18	LB135424
CCV05	Arsenic	4860	5000	97	90 - 110	P	04/14/2025	18:16	LB135424
	Barium	9570	10000	96	90 - 110	P	04/14/2025	18:16	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	18:16	LB135424
	Chromium	986	1000	99	90 - 110	P	04/14/2025	18:16	LB135424
	Lead	4920	5000	98	90 - 110	P	04/14/2025	18:16	LB135424
	Selenium	4910	5000	98	90 - 110	P	04/14/2025	18:16	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1230	1250	98	90 - 110	P	04/14/2025	18:16	LB135424
CCV06	Arsenic	4780	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Barium	9740	10000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	19:07	LB135424
	Chromium	957	1000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Lead	4870	5000	98	90 - 110	P	04/14/2025	19:07	LB135424
	Selenium	4820	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Silver	1190	1250	95	90 - 110	P	04/14/2025	19:07	LB135424
CCV07	Arsenic	4740	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	19:57	LB135424
	Chromium	974	1000	97	90 - 110	P	04/14/2025	19:57	LB135424
	Lead	4820	5000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Selenium	4770	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	19:57	LB135424
CCV08	Arsenic	4810	5000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	20:48	LB135424
	Cadmium	2440	2500	98	90 - 110	P	04/14/2025	20:48	LB135424
	Chromium	955	1000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Selenium	4860	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Silver	1190	1250	96	90 - 110	P	04/14/2025	20:48	LB135424
CCV09	Arsenic	4770	5000	95	90 - 110	P	04/14/2025	21:38	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	21:38	LB135424
	Chromium	973	1000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Lead	4840	5000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Silver	1220	1250	97	90 - 110	P	04/14/2025	21:38	LB135424
CCV10	Arsenic	4830	5000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Barium	9670	10000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:28	LB135424
	Chromium	977	1000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Lead	4870	5000	97	90 - 110	P	04/14/2025	22:28	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Selenium	4880	5000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Silver	1220	1250	98	90 - 110	P	04/14/2025	22:28	LB135424
CCV11	Arsenic	4800	5000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	22:40	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:40	LB135424
	Chromium	958	1000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Selenium	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Silver	1210	1250	97	90 - 110	P	04/14/2025	22:40	LB135424
CCV12	Arsenic	4760	5000	95	90 - 110	P	04/14/2025	23:06	LB135424
	Barium	9900	10000	99	90 - 110	P	04/14/2025	23:06	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	23:06	LB135424
	Chromium	965	1000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Lead	4830	5000	97	90 - 110	P	04/14/2025	23:06	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	23:06	LB135424

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Arsenic	18.9	20.0	95	40 - 160	P	04/10/2025	10:33	LB135373
	Barium	85.4	100	85	40 - 160	P	04/10/2025	10:33	LB135373
	Cadmium	5.51	6.0	92	40 - 160	P	04/10/2025	10:33	LB135373
	Chromium	9.42	10.0	94	40 - 160	P	04/10/2025	10:33	LB135373
	Lead	11.6	12.0	97	40 - 160	P	04/10/2025	10:33	LB135373
	Selenium	18.1	20.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Silver	10.4	10.0	104	40 - 160	P	04/10/2025	10:33	LB135373
CRA	Mercury	0.19	0.2	96	40 - 160	CV	04/10/2025	13:10	LB135365
CRI01	Arsenic	22.3	20.0	112	40 - 160	P	04/14/2025	14:09	LB135424
	Barium	95.6	100	96	40 - 160	P	04/14/2025	14:09	LB135424
	Cadmium	6.08	6.0	101	40 - 160	P	04/14/2025	14:09	LB135424
	Chromium	9.67	10.0	97	40 - 160	P	04/14/2025	14:09	LB135424
	Lead	12.2	12.0	102	40 - 160	P	04/14/2025	14:09	LB135424
	Selenium	19.6	20.0	98	40 - 160	P	04/14/2025	14:09	LB135424
	Silver	9.88	10.0	99	40 - 160	P	04/14/2025	14:09	LB135424

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	5.16			-20	20	04/10/2025	10:37	LB135373
	Barium	-3.92	6.0	65	-94	106	04/10/2025	10:37	LB135373
	Cadmium	-3.53	1.0	353	-5	7	04/10/2025	10:37	LB135373
	Chromium	55.8	52.0	107	42	62	04/10/2025	10:37	LB135373
	Lead	7.32			-12	12	04/10/2025	10:37	LB135373
	Selenium	-8.19			-20	20	04/10/2025	10:37	LB135373
	Silver	3.75			-10	10	04/10/2025	10:37	LB135373
ICSAB01	Arsenic	111	104	107	88.4	120	04/10/2025	10:42	LB135373
	Barium	459	537	86	437	637	04/10/2025	10:42	LB135373
	Cadmium	981	972	101	826	1120	04/10/2025	10:42	LB135373
	Chromium	553	542	102	460	624	04/10/2025	10:42	LB135373
	Lead	57.3	49.0	117	37	61	04/10/2025	10:42	LB135373
	Selenium	36.7	46.0	80	26	66	04/10/2025	10:42	LB135373
	Silver	186	201	92	170	232	04/10/2025	10:42	LB135373
ICSA01	Arsenic	10.8			-20	20	04/14/2025	14:14	LB135424
	Barium	4.69	6.0	78	-94	106	04/14/2025	14:14	LB135424
	Cadmium	-1.94	1.0	194	-5	7	04/14/2025	14:14	LB135424
	Chromium	55.2	52.0	106	42	62	04/14/2025	14:14	LB135424
	Lead	5.03			-12	12	04/14/2025	14:14	LB135424
	Selenium	-0.72			-20	20	04/14/2025	14:14	LB135424
	Silver	-3.74			-10	10	04/14/2025	14:14	LB135424
ICSAB01	Arsenic	114	104	110	88.4	120	04/14/2025	14:18	LB135424
	Barium	479	537	89	437	637	04/14/2025	14:18	LB135424
	Cadmium	1040	972	107	826	1120	04/14/2025	14:18	LB135424
	Chromium	553	542	102	460	624	04/14/2025	14:18	LB135424
	Lead	53.8	49.0	110	37	61	04/14/2025	14:18	LB135424
	Selenium	47.1	46.0	102	26	66	04/14/2025	14:18	LB135424
	Silver	179	201	89	170	232	04/14/2025	14:18	LB135424

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Water **sample id:** Q1743-04 **client id:** TP-16MS

Percent Solids for Sample: NA **Spiked ID:** Q1743-04MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3390		100	U	4000	85		P
Barium	ug/L	75 - 125	3120		2470		1000	65	N	P
Cadmium	ug/L	75 - 125	865		4.92	J	1000	86		P
Chromium	ug/L	75 - 125	1680		50.0	U	2000	84		P
Lead	ug/L	75 - 125	6040		2220		5000	76		P
Mercury	ug/L	75 - 125	36.6		2.00	U	40.0	92		CV
Selenium	ug/L	75 - 125	8320		100	U	10000	83		P
Silver	ug/L	75 - 125	310		50.0	U	380	82		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1746

contract: PORT06 **lab code:** CHEM **case no.:** Q1746 **sas no.:** Q1746

matrix: Water **sample id:** Q1743-04 **client id:** TP-16MSD

Percent Solids for Sample: NA **Spiked ID:** Q1743-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3500		100	U	4000	88		P
Barium	ug/L	75 - 125	3020		2470		1000	54	N	P
Cadmium	ug/L	75 - 125	872		4.92	J	1000	87		P
Chromium	ug/L	75 - 125	1700		50.0	U	2000	85		P
Lead	ug/L	75 - 125	6110		2220		5000	78		P
Mercury	ug/L	75 - 125	35.5		2.00	U	40.0	89		CV
Selenium	ug/L	75 - 125	8540		100	U	10000	85		P
Silver	ug/L	75 - 125	314		50.0	U	380	83		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Level:** LOW **Client ID:** TP-16A

Sample ID: Q1743-04 **Spiked ID:** Q1743-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	3250		2470		1000	77		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Sample ID:** Q1743-04 **Client ID:** TP-16DUP

Percent Solids for Sample: NA **Duplicate ID** Q1743-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	2470		2440		1		P
Cadmium	ug/L	20	4.92	J	5.01	J	2		P
Chromium	ug/L	20	50.0	U	14.2	J	200.0		P
Lead	ug/L	20	2220		2220		0		P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Matrix: Water **Sample ID:** Q1743-04MS **Client ID:** TP-16MSD

Percent Solids for Sample: NA **Duplicate ID** Q1743-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3390		3500		3		P
Barium	ug/L	20	3120		3020		3		P
Cadmium	ug/L	20	865		872		1		P
Chromium	ug/L	20	1680		1700		1		P
Lead	ug/L	20	6040		6110		1		P
Mercury	ug/L	20	36.6		35.5		3		CV
Selenium	ug/L	20	8320		8540		3		P
Silver	ug/L	20	310		314		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167533BS							
Arsenic	ug/L	4000	4080		102	80 - 120	P
Barium	ug/L	1000	968		97	80 - 120	P
Cadmium	ug/L	1000	1020		102	80 - 120	P
Chromium	ug/L	2000	2010		100	80 - 120	P
Lead	ug/L	5000	5050		101	80 - 120	P
Selenium	ug/L	10000	10200		102	80 - 120	P
Silver	ug/L	380	372		98	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167539BS							
Mercury	ug/L	4.0	3.80		95	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-16L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135424 **Lab Sample ID :** Q1743-04L **SDG No.:** Q1746

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	2470		2500		1		P
Cadmium	4.92	J	5.82	J	18		P
Chromium	50.0	U	39.7	J	100.0		P
Lead	2220		2330		5		P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135365

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1241	HG
S0.2	S0.2	1	1244	HG
S2.5	S2.5	1	1246	HG
S5	S5	1	1248	HG
S7.5	S7.5	1	1250	HG
S10	S10	1	1253	HG
ICV83	ICV83	1	1301	HG
ICB83	ICB83	1	1303	HG
CCV53	CCV53	1	1306	HG
CCB53	CCB53	1	1308	HG
CRA	CRA	1	1310	HG
PB167539BL	PB167539BL	1	1317	HG
PB167539BS	PB167539BS	1	1322	HG
Q1743-04DUP	TP-16DUP	1	1327	HG
Q1743-04MS	TP-16MS	1	1331	HG
Q1743-04MSD	TP-16MSD	1	1334	HG
CCV54	CCV54	1	1338	HG
CCB54	CCB54	1	1341	HG
Q1746-02	B-149-SB01	1	1350	HG
Q1746-04	B-149-SB02	1	1352	HG
CCV55	CCV55	1	1406	HG
CCB55	CCB55	1	1408	HG
CCV56	CCV56	1	1436	HG
CCB56	CCB56	1	1438	HG
CCV57	CCV57	1	1506	HG
CCB57	CCB57	1	1508	HG
PB167517TB	PB167517TB	1	1512	HG
Q1743-04L	TP-16L	5	1517	HG
CCV58	CCV58	1	1526	HG
CCB58	CCB58	1	1528	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135373

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0930	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	0935	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	0939	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	0943	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	0947	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	0951	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1009	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1025	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1029	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1033	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1037	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1042	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1100	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1121	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1208	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1212	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1259	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1304	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1351	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1449	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1544	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1548	Ag,As,Ba,Cd,Cr,Pb,Se
PB167517TB	PB167517TB	1	1643	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1656	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1700	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1756	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1800	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1819	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1823	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135424

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1313	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1317	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1322	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1326	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1330	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1334	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1356	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1409	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1414	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1418	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1431	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1435	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04DUP	TP-16DUP	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04L	TP-16L	5	1448	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04MS	TP-16MS	1	1452	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04MSD	TP-16MSD	1	1457	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04A	TP-16A	1	1501	Ba
CCV02	CCV02	1	1522	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1526	Ag,As,Ba,Cd,Cr,Pb,Se
PB167533BL	PB167533BL	1	1556	Ag,As,Ba,Cd,Cr,Pb,Se
PB167533BS	PB167533BS	1	1601	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1632	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1718	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1722	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1816	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1820	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1907	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1911	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1957	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2001	Ag,As,Ba,Cd,Cr,Pb,Se
Q1746-02	B-149-SB01	1	2034	Ag,As,Ba,Cd,Cr,Pb,Se
Q1746-04	B-149-SB02	1	2039	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2048	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2052	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2138	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2142	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2228	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2232	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1746 **Sas no.:** Q1746 **Sdg no.:** Q1746

Instrument id number: **Method:** **Run number:** LB135424

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV11	CCV11	1	2240	Ag,As,Ba,Cd,Cr,Pb,Se
CCB11	CCB11	1	2244	Ag,As,Ba,Cd,Cr,Pb,Se
CCV12	CCV12	1	2306	Ag,As,Ba,Cd,Cr,Pb,Se
CCB12	CCB12	1	2311	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1746 **SAS No.:** Q1746

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1746-02	**B-149-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/14/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1746-04	**B-149-SB02**	**TCLP**			**04/06/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/14/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	
Q1746-05	**B-158-GW01**	**Water**			**04/05/25**			**04/07/25**
			Mercury	7470A		04/10/25	04/11/25	
			Metals ICP-TAL	6010D		04/08/25	04/14/25	
Q1746-06	**B-149-GW01**	**Water**			**04/06/25**			**04/07/25**
			Mercury	7470A		04/10/25	04/11/25	
			Metals ICP-TAL	6010D		04/08/25	04/14/25	
Q1746-07	**EB-2025-4-7**	**Water**			**04/07/25**			**04/07/25**
			Mercury	7470A		04/10/25	04/11/25	
			Metals ICP-TAL	6010D		04/08/25	04/14/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1746 **SAS No.:** Q1746

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167533**						
PB167517TB	PB167517TB	MB	WATER	04/09/2025	5.0	25.0	
PB167533BL	PB167533BL	MB	WATER	04/09/2025	5.0	25.0	
PB167533BS	PB167533BS	LCS	WATER	04/09/2025	5.0	25.0	
Q1743-04DUP	TP-16DUP	DUP	WATER	04/09/2025	5.0	25.0	
Q1743-04MS	TP-16MS	MS	WATER	04/09/2025	5.0	25.0	
Q1743-04MSD	TP-16MSD	MSD	WATER	04/09/2025	5.0	25.0	
Q1746-02	B-149-SB01	SAM	WATER	04/09/2025	5.0	25.0	
Q1746-04	B-149-SB02	SAM	WATER	04/09/2025	5.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1746 **SAS No.:** Q1746

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167539**						
PB167517TB	PB167517TB	MB	WATER	04/10/2025	3.0	30.0	
PB167539BL	PB167539BL	MB	WATER	04/10/2025	30.0	30.0	
PB167539BS	PB167539BS	LCS	WATER	04/10/2025	30.0	30.0	
Q1743-04DUP	TP-16DUP	DUP	WATER	04/10/2025	3.0	30.0	
Q1743-04MS	TP-16MS	MS	WATER	04/10/2025	3.0	30.0	
Q1743-04MSD	TP-16MSD	MSD	WATER	04/10/2025	3.0	30.0	
Q1746-02	B-149-SB01	SAM	WATER	04/10/2025	3.0	30.0	
Q1746-04	B-149-SB02	SAM	WATER	04/10/2025	3.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 12:41		mohan	OK
2	S0.2	S0.2	CAL2	04/10/25 12:44		mohan	OK
3	S2.5	S2.5	CAL3	04/10/25 12:46		mohan	OK
4	S5	S5	CAL4	04/10/25 12:48		mohan	OK
5	S7.5	S7.5	CAL5	04/10/25 12:50		mohan	OK
6	S10	S10	CAL6	04/10/25 12:53		mohan	OK
7	ICV83	ICV83	ICV	04/10/25 13:01		mohan	OK
8	ICB83	ICB83	ICB	04/10/25 13:03		mohan	OK
9	CCV53	CCV53	CCV	04/10/25 13:06		mohan	OK
10	CCB53	CCB53	CCB	04/10/25 13:08		mohan	OK
11	CRA	CRA	CRDL	04/10/25 13:10		mohan	OK
12	HighStd	HighStd	HIGH STD	04/10/25 13:12		mohan	OK
13	ChkStd	ChkStd	SAM	04/10/25 13:15		mohan	OK
14	PB167539BL	PB167539BL	MB	04/10/25 13:17		mohan	OK
15	PB167539BS	PB167539BS	LCS	04/10/25 13:22		mohan	OK
16	Q1743-04	TP-16	SAM	04/10/25 13:24		mohan	OK
17	Q1743-04DUP	TP-16DUP	DUP	04/10/25 13:27		mohan	OK
18	Q1743-04MS	TP-16MS	MS	04/10/25 13:31		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

19	Q1743-04MSD	TP-16MSD	MSD	04/10/25 13:34		mohan	OK
20	Q1744-02	B-158-SB01	SAM	04/10/25 13:36		mohan	OK
21	CCV54	CCV54	CCV	04/10/25 13:38		mohan	OK
22	CCB54	CCB54	CCB	04/10/25 13:41		mohan	OK
23	Q1744-04	B-158-SB02	SAM	04/10/25 13:43		mohan	OK
24	Q1745-04	IB-6A-WC	SAM	04/10/25 13:45		mohan	OK
25	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		mohan	OK
26	Q1746-02	B-149-SB01	SAM	04/10/25 13:50		mohan	OK
27	Q1746-04	B-149-SB02	SAM	04/10/25 13:52		mohan	OK
28	Q1748-04	IB-1.5-WC	SAM	04/10/25 13:54		mohan	OK
29	Q1748-08	IB-2A-WC	SAM	04/10/25 13:56		mohan	OK
30	Q1749-04	TP-14	SAM	04/10/25 13:59		mohan	OK
31	Q1752-02	TP-1	SAM	04/10/25 14:01		mohan	OK
32	Q1752-04	TP-2	SAM	04/10/25 14:03		mohan	OK
33	CCV55	CCV55	CCV	04/10/25 14:06		mohan	OK
34	CCB55	CCB55	CCB	04/10/25 14:08		mohan	OK
35	Q1752-06	TP-4	SAM	04/10/25 14:10		mohan	OK
36	Q1752-08	TP-3	SAM	04/10/25 14:12		mohan	OK
37	Q1753-04	WC-1	SAM	04/10/25 14:15		mohan	OK
38	Q1753-08	WC-2	SAM	04/10/25 14:17		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

39	Q1754-02	TP-1	SAM	04/10/25 14:19		mohan	OK
40	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 14:21		mohan	OK
41	PB167540BL	PB167540BL	MB	04/10/25 14:24		mohan	OK
42	PB167540BS	PB167540BS	LCS	04/10/25 14:26		mohan	OK
43	Q1730-02	OU4-VSL-15-040325	SAM	04/10/25 14:28		mohan	OK
44	Q1730-04	OU4-VSL-16-040325	SAM	04/10/25 14:31		mohan	OK
45	CCV56	CCV56	CCV	04/10/25 14:36		mohan	OK
46	CCB56	CCB56	CCB	04/10/25 14:38		mohan	OK
47	Q1730-06	OU4-VSL-17-040325	SAM	04/10/25 14:40		mohan	OK
48	Q1730-08	OU4-PCS-TC-21-040	SAM	04/10/25 14:42		mohan	OK
49	Q1730-10	OU4-PCS-TC-22-040	SAM	04/10/25 14:45		mohan	OK
50	Q1730-12	OU4-PCS-TC-23-040	SAM	04/10/25 14:47		mohan	OK
51	Q1730-14	OU4-PCS-TC-24-040	SAM	04/10/25 14:49		mohan	OK
52	Q1730-16	OU4-PCS-TC-25-040	SAM	04/10/25 14:51		mohan	OK
53	Q1730-18	OU4-PCS-TC-26-040	SAM	04/10/25 14:54		mohan	OK
54	Q1730-20	OU4-CF-15-040325	SAM	04/10/25 14:56		mohan	OK
55	Q1730-20DUP	OU4-CF-15-040325D	DUP	04/10/25 14:58		mohan	OK
56	Q1730-20MS	OU4-CF-15-040325M	MS	04/10/25 15:03		mohan	OK
57	CCV57	CCV57	CCV	04/10/25 15:06		mohan	OK
58	CCB57	CCB57	CCB	04/10/25 15:08		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

59	Q1730-20MSD	OU4-CF-15-040325M	MSD	04/10/25 15:10		mohan	OK
60	PB167517TB	PB167517TB	MB	04/10/25 15:12		mohan	OK
61	PB167540TB	PB167540TB	MB	04/10/25 15:15		mohan	OK
62	Q1743-04L	TP-16L	SD	04/10/25 15:17		mohan	OK
63	Q1743-04A	TP-16A	PS	04/10/25 15:19		mohan	OK
64	Q1730-20L	OU4-CF-15-040325L	SD	04/10/25 15:22		mohan	OK
65	Q1730-20A	OU4-CF-15-040325A	PS	04/10/25 15:24		mohan	OK
66	CCV58	CCV58	CCV	04/10/25 15:26		mohan	OK
67	CCB58	CCB58	CCB	04/10/25 15:28		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 09:30		Kareem	OK
2	S1	S1	CAL2	04/10/25 09:35		Kareem	OK
3	S2	S2	CAL3	04/10/25 09:39		Kareem	OK
4	S3	S3	CAL4	04/10/25 09:43		Kareem	OK
5	S4	S4	CAL5	04/10/25 09:47		Kareem	OK
6	S5	S5	CAL6	04/10/25 09:51		Kareem	OK
7	ICV01	ICV01	ICV	04/10/25 10:09	ICV01 Fail For Be,Cd,Ca,Co,Mg,Mn,NI,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	04/10/25 10:25		Kareem	OK
9	ICB01	ICB01	ICB	04/10/25 10:29		Kareem	OK
10	CRI01	CRI01	CRDL	04/10/25 10:33		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/10/25 10:37		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/10/25 10:42		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/10/25 10:46		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/10/25 10:50		Kareem	OK
15	CCV01	CCV01	CCV	04/10/25 11:00		Kareem	OK
16	CCB01	CCB01	CCB	04/10/25 11:21		Kareem	OK
17	PB167483BL	PB167483BL	MB	04/10/25 11:26		Kareem	OK
18	PB167483BS	PB167483BS	LCS	04/10/25 11:30		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	PB167497BL	PB167497BL	MB	04/10/25 11:34		Kareem	OK
20	PB167497BS	PB167497BS	LCS	04/10/25 11:38		Kareem	OK
21	Q1715-01	WATER TREATMENT	SAM	04/10/25 11:42		Kareem	OK
22	Q1745-01	IB-6A-WC	SAM	04/10/25 11:47		Kareem	OK
23	Q1745-09	IB-6.5-WC	SAM	04/10/25 11:51		Kareem	OK
24	Q1748-01	IB-1.5-WC	SAM	04/10/25 11:55		Kareem	OK
25	Q1748-05	IB-2A-WC	SAM	04/10/25 11:59		Kareem	OK
26	Q1749-01	TP-14	SAM	04/10/25 12:03		Kareem	OK
27	CCV02	CCV02	CCV	04/10/25 12:08		Kareem	OK
28	CCB02	CCB02	CCB	04/10/25 12:12		Kareem	OK
29	Q1732-01	TT-8	SAM	04/10/25 12:17		Kareem	OK
30	Q1733-01	ETGI-328	SAM	04/10/25 12:21		Kareem	OK
31	Q1740-01	TP-20	SAM	04/10/25 12:25		Kareem	OK
32	Q1743-01	TP-16	SAM	04/10/25 12:29		Kareem	OK
33	Q1739-01	WC-LIQUID-2025040	SAM	04/10/25 12:33		Kareem	OK
34	Q1748-04	IB-1.5-WC	SAM	04/10/25 12:38		Kareem	OK
35	Q1748-08	IB-2A-WC	SAM	04/10/25 12:42		Kareem	OK
36	Q1754-02	TP-1	SAM	04/10/25 12:46		Kareem	OK
37	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 12:51		Kareem	OK
38	Q1754-01	TP-1	SAM	04/10/25 12:55		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	CCV03	CCV03	CCV	04/10/25 12:59		Kareem	OK
40	CCB03	CCB03	CCB	04/10/25 13:04		Kareem	OK
41	Q1754-03	TP-1-CONCRETE	SAM	04/10/25 13:07		Kareem	OK
42	Q1754-03DUP	TP-1-CONCRETEDUI	DUP	04/10/25 13:12		Kareem	OK
43	Q1754-03L	TP-1-CONCRETEL	SD	04/10/25 13:16		Kareem	OK
44	Q1754-03A	TP-1-CONCRETEA	PS	04/10/25 13:29		Kareem	OK
45	Q1715-01DUP	WATER TREATMENT	DUP	04/10/25 13:33		Kareem	OK
46	Q1715-01L	WATER TREATMENT	SD	04/10/25 13:38		Kareem	OK
47	Q1745-04	IB-6A-WC	SAM	04/10/25 13:42		Kareem	OK
48	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		Kareem	OK
49	CCV04	CCV04	CCV	04/10/25 13:51		Kareem	OK
50	CCB04	CCB04	CCB	04/10/25 13:55		Kareem	OK
51	Q1715-01MS	WATER TREATMENT	MS	04/10/25 13:59		Kareem	OK
52	Q1715-01MSD	WATER TREATMENT	MSD	04/10/25 14:07		Kareem	OK
53	Q1715-01A	WATER TREATMENT	PS	04/10/25 14:11		Kareem	OK
54	Q1744-01	B-158-SB01	SAM	04/10/25 14:15		Kareem	OK
55	Q1744-03	B-158-SB02	SAM	04/10/25 14:19		Kareem	OK
56	Q1754-03MS	TP-1-CONCRETEMS	MS	04/10/25 14:23		Kareem	OK
57	Q1754-03MSD	TP-1-CONCRETEMS	MSD	04/10/25 14:27		Kareem	OK
58	Q1745-09DUP	IB-6.5-WCDUP	DUP	04/10/25 14:32		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

59	Q1745-09L	IB-6.5-WCL	SD	04/10/25 14:36		Kareem	OK
60	CCV05	CCV05	CCV	04/10/25 14:44		Kareem	OK
61	CCB05	CCB05	CCB	04/10/25 14:49		Kareem	OK
62	Q1745-09A	IB-6.5-WCA	PS	04/10/25 14:57	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1745-09MS	IB-6.5-WCMS	MS	04/10/25 15:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1745-09MSD	IB-6.5-WCMSD	MSD	04/10/25 15:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	PBW04	PBW04	MB	04/10/25 15:14		Kareem	OK
66	LCSW04	LCSW04	LCS	04/10/25 15:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	PBS04	PBS04	MB	04/10/25 15:23		Kareem	OK
68	LCSS04	LCSS04	LCS	04/10/25 15:27	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
69	PBW05	PBW05	MB	04/10/25 15:31		Kareem	OK
70	PBS05	PBS05	MB	04/10/25 15:35		Kareem	OK
71	WATER MDL-4	WATER MDL-4	SAM	04/10/25 15:40		Kareem	OK
72	CCV06	CCV06	CCV	04/10/25 15:44		Kareem	OK
73	CCB06	CCB06	CCB	04/10/25 15:48		Kareem	OK
74	WATER MDL-5	WATER MDL-5	SAM	04/10/25 15:52		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

75	SOIL MDL-4	SOIL MDL-4	SAM	04/10/25 16:09		Kareem	OK
76	Q1746-01	B-149-SB01	SAM	04/10/25 16:17		Kareem	OK
77	Q1746-03	B-149-SB02	SAM	04/10/25 16:22		Kareem	OK
78	PB167490BL	PB167490BL	MB	04/10/25 16:26		Kareem	OK
79	PB167490BS	PB167490BS	LCS	04/10/25 16:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
80	PB167517TB	PB167517TB	MB	04/10/25 16:43		Kareem	OK
81	Q1744-02	B-158-SB01	SAM	04/10/25 16:47		Kareem	OK
82	Q1744-04	B-158-SB02	SAM	04/10/25 16:52	Confirm TCLP for Ba	Kareem	OK
83	CCV07	CCV07	CCV	04/10/25 16:56		Kareem	OK
84	CCB07	CCB07	CCB	04/10/25 17:00		Kareem	OK
85	Q1780-01	001-WILLETS-PT-BL	SAM	04/10/25 17:05		Kareem	OK
86	Q1780-02	002-35TH-AVE(MAR)	SAM	04/10/25 17:09		Kareem	OK
87	Q1780-02DUP	002-35TH-AVE(MAR)	DUP	04/10/25 17:13		Kareem	OK
88	Q1780-02L	002-35TH-AVE(MAR)	SD	04/10/25 17:18		Kareem	OK
89	Q1780-02MS	002-35TH-AVE(MAR)	MS	04/10/25 17:22	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1780-02MSD	002-35TH-AVE(MAR)	MSD	04/10/25 17:26	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

91	Q1780-02A	002-35TH-AVE(MAR)	PS	04/10/25 17:30	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
92	SOIL MDL-5	SOIL MDL-5	SAM	04/10/25 17:34		Kareem	OK
93	PB167554BL	PB167554BL	MB	04/10/25 17:39		Kareem	OK
94	PB167554BS	PB167554BS	LCS	04/10/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	CCV08	CCV08	CCV	04/10/25 17:56		Kareem	OK
96	CCB08	CCB08	CCB	04/10/25 18:00		Kareem	OK
97	LR1	LR1	HIGH STD	04/10/25 18:05		Kareem	OK
98	LR2	LR2	HIGH STD	04/10/25 18:10		Kareem	OK
99	CCV09	CCV09	CCV	04/10/25 18:19		Kareem	OK
100	CCB09	CCB09	CCB	04/10/25 18:23		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP84990,MP84988
CCV Standard	
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/14/25 13:13		Kareem	OK
2	S1	S1	CAL2	04/14/25 13:17		Kareem	OK
3	S2	S2	CAL3	04/14/25 13:22		Kareem	OK
4	S3	S3	CAL4	04/14/25 13:26		Kareem	OK
5	S4	S4	CAL5	04/14/25 13:30		Kareem	OK
6	S5	S5	CAL6	04/14/25 13:34		Kareem	OK
7	ICV01	ICV01	ICV	04/14/25 13:56		Kareem	OK
8	LLICV01	LLICV01	LLICV	04/14/25 14:01		Kareem	OK
9	ICB01	ICB01	ICB	04/14/25 14:05		Kareem	OK
10	CRI01	CRI01	CRDL	04/14/25 14:09		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/14/25 14:14		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/14/25 14:18		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/14/25 14:22		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/14/25 14:27		Kareem	OK
15	CCV01	CCV01	CCV	04/14/25 14:31		Kareem	OK
16	CCB01	CCB01	CCB	04/14/25 14:35		Kareem	OK
17	Q1743-04	TP-16	SAM	04/14/25 14:39		Kareem	OK
18	Q1743-04DUP	TP-16DUP	DUP	04/14/25 14:44		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP84990,MP84988
CCV Standard	
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

19	Q1743-04L	TP-16L	SD	04/14/25 14:48		Kareem	OK
20	Q1743-04MS	TP-16MS	MS	04/14/25 14:52		Kareem	OK
21	Q1743-04MSD	TP-16MSD	MSD	04/14/25 14:57		Kareem	OK
22	Q1743-04A	TP-16A	PS	04/14/25 15:01		Kareem	OK
23	Q1774-02	TT-073-IDWGW-2025	SAM	04/14/25 15:05		Kareem	OK
24	Q1774-03	TT-074-IDWGW-2025	SAM	04/14/25 15:09		Kareem	OK
25	Q1774-04	TT-075-IDWGW-2025	SAM	04/14/25 15:14		Kareem	OK
26	Q1774-02DUP	TT-073-IDWGW-2025	DUP	04/14/25 15:18		Kareem	OK
27	CCV02	CCV02	CCV	04/14/25 15:22		Kareem	OK
28	CCB02	CCB02	CCB	04/14/25 15:26		Kareem	OK
29	Q1774-02L	TT-073-IDWGW-2025	SD	04/14/25 15:31		Kareem	OK
30	Q1774-02MS	TT-073-IDWGW-2025	MS	04/14/25 15:35		Kareem	OK
31	Q1774-02MSD	TT-073-IDWGW-2025	MSD	04/14/25 15:39		Kareem	OK
32	Q1774-02A	TT-073-IDWGW-2025	PS	04/14/25 15:43		Kareem	OK
33	Q1705-04	ETGI-327	SAM	04/14/25 15:47		Kareem	OK
34	Q1705-05	ETGI-275	SAM	04/14/25 15:52		Kareem	OK
35	PB167533BL	PB167533BL	MB	04/14/25 15:56		Kareem	OK
36	PB167533BS	PB167533BS	LCS	04/14/25 16:01		Kareem	OK
37	Q1753-04	WC-1	SAM	04/14/25 16:05		Kareem	OK
38	Q1753-08	WC-2	SAM	04/14/25 16:09		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP84990,MP84988
CCV Standard	
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

39	CCV03	CCV03	CCV	04/14/25 16:28		Kareem	OK
40	CCB03	CCB03	CCB	04/14/25 16:32		Kareem	OK
41	Q1753-01	WC-1	SAM	04/14/25 16:37		Kareem	OK
42	Q1753-05	WC-2	SAM	04/14/25 16:41		Kareem	OK
43	Q1768-01	CRUSHED STONE	SAM	04/14/25 16:45	Zn high	Kareem	Dilution
44	Q1756-01	TP-9	SAM	04/14/25 16:49		Kareem	OK
45	Q1760-01	TP-17	SAM	04/14/25 16:53		Kareem	OK
46	Q1760-05	TP-15	SAM	04/14/25 16:57		Kareem	OK
47	Q1779-01	TP-22	SAM	04/14/25 17:01		Kareem	OK
48	Q1779-05	TP-23	SAM	04/14/25 17:06		Kareem	OK
49	Q1779-05DUP	TP-23DUP	DUP	04/14/25 17:10		Kareem	OK
50	Q1779-05L	TP-23L	SD	04/14/25 17:14		Kareem	OK
51	CCV04	CCV04	CCV	04/14/25 17:18		Kareem	OK
52	CCB04	CCB04	CCB	04/14/25 17:22		Kareem	OK
53	Q1779-05MS	TP-23MS	MS	04/14/25 17:27		Kareem	OK
54	Q1779-05MSD	TP-23MSD	MSD	04/14/25 17:31		Kareem	OK
55	Q1779-05A	TP-23A	PS	04/14/25 17:35		Kareem	OK
56	Q1781-01	WC-13	SAM	04/14/25 17:39		Kareem	OK
57	Q1781-05	WC-12	SAM	04/14/25 17:43		Kareem	OK
58	Q1781-09	WC-11	SAM	04/14/25 17:48		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP84990,MP84988
CCV Standard	
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

59	PB167567BL	PB167567BL	MB	04/14/25 17:52		Kareem	OK
60	PB167567BS	PB167567BS	LCS	04/14/25 17:56		Kareem	OK
61	PB167482BL	PB167482BL	MB	04/14/25 18:00		Kareem	OK
62	PB167482BS	PB167482BS	LCS	04/14/25 18:12		Kareem	OK
63	CCV05	CCV05	CCV	04/14/25 18:16		Kareem	OK
64	CCB05	CCB05	CCB	04/14/25 18:20		Kareem	OK
65	PB167530BL	PB167530BL	MB	04/14/25 18:25		Kareem	OK
66	PB167530BS	PB167530BS	LCS	04/14/25 18:29		Kareem	OK
67	PB167548BL	PB167548BL	MB	04/14/25 18:33		Kareem	OK
68	PB167548BS	PB167548BS	LCS	04/14/25 18:38		Kareem	OK
69	PB167566BL	PB167566BL	MB	04/14/25 18:42		Kareem	OK
70	PB167566BS	PB167566BS	LCS	04/14/25 18:46		Kareem	OK
71	PB167500BL	PB167500BL	MB	04/14/25 18:50		Kareem	OK
72	PB167500BS	PB167500BS	LCS	04/14/25 18:54		Kareem	OK
73	Q1768-01DL	CRUSHED STONEDL	SAM	04/14/25 18:58	5X for Zn	Kareem	Confirms
74	Q1730-01	OU4-VSL-15-040325	SAM	04/14/25 19:02		Kareem	OK
75	CCV06	CCV06	CCV	04/14/25 19:07		Kareem	OK
76	CCB06	CCB06	CCB	04/14/25 19:11		Kareem	OK
77	Q1730-03	OU4-VSL-16-040325	SAM	04/14/25 19:15		Kareem	OK
78	Q1730-05	OU4-VSL-17-040325	SAM	04/14/25 19:19		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP84990,MP84988
CCV Standard	
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

79	Q1730-07	OU4-PCS-TC-21-040	SAM	04/14/25 19:23		Kareem	OK
80	Q1730-09	OU4-PCS-TC-22-040	SAM	04/14/25 19:27		Kareem	OK
81	Q1730-11	OU4-PCS-TC-23-040	SAM	04/14/25 19:32		Kareem	OK
82	Q1730-13	OU4-PCS-TC-24-040	SAM	04/14/25 19:36		Kareem	OK
83	Q1730-15	OU4-PCS-TC-25-040	SAM	04/14/25 19:40		Kareem	OK
84	Q1730-17	OU4-PCS-TC-26-040	SAM	04/14/25 19:44		Kareem	OK
85	Q1730-19	OU4-CF-15-040325	SAM	04/14/25 19:49		Kareem	OK
86	Q1736-01	GST1	SAM	04/14/25 19:53		Kareem	OK
87	CCV07	CCV07	CCV	04/14/25 19:57		Kareem	OK
88	CCB07	CCB07	CCB	04/14/25 20:01		Kareem	OK
89	Q1736-02	GST2	SAM	04/14/25 20:05		Kareem	OK
90	Q1738-01	OK-02-040425	SAM	04/14/25 20:10		Kareem	OK
91	Q1738-01DUP	OK-02-040425DUP	DUP	04/14/25 20:14		Kareem	OK
92	Q1738-01L	OK-02-040425L	SD	04/14/25 20:18		Kareem	OK
93	Q1738-01MS	OK-02-040425MS	MS	04/14/25 20:22		Kareem	OK
94	Q1738-01MSD	OK-02-040425MSD	MSD	04/14/25 20:26		Kareem	OK
95	Q1738-01A	OK-02-040425A	PS	04/14/25 20:30		Kareem	OK
96	Q1746-02	B-149-SB01	SAM	04/14/25 20:34		Kareem	OK
97	Q1746-04	B-149-SB02	SAM	04/14/25 20:39		Kareem	OK
98	Q1749-04	TP-14	SAM	04/14/25 20:43		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP84990,MP84988
CCV Standard	
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

99	CCV08	CCV08	CCV	04/14/25 20:48		Kareem	OK
100	CCB08	CCB08	CCB	04/14/25 20:52		Kareem	OK
101	Q1746-05	B-158-GW01	SAM	04/14/25 20:56		Kareem	OK
102	Q1746-06	B-149-GW01	SAM	04/14/25 21:00		Kareem	OK
103	Q1746-06DUP	B-149-GW01DUP	DUP	04/14/25 21:05		Kareem	OK
104	Q1746-06L	B-149-GW01L	SD	04/14/25 21:09		Kareem	OK
105	Q1746-06MS	B-149-GW01MS	MS	04/14/25 21:13		Kareem	OK
106	Q1746-06MSD	B-149-GW01MSD	MSD	04/14/25 21:17		Kareem	OK
107	Q1746-06A	B-149-GW01A	PS	04/14/25 21:21		Kareem	OK
108	Q1746-07	EB-2025-4-7	SAM	04/14/25 21:25		Kareem	OK
109	Q1771-01	TP-6C	SAM	04/14/25 21:30		Kareem	OK
110	Q1771-05	TP-7C	SAM	04/14/25 21:34		Kareem	OK
111	CCV09	CCV09	CCV	04/14/25 21:38		Kareem	OK
112	CCB09	CCB09	CCB	04/14/25 21:42		Kareem	OK
113	Q1771-09	TP-3A	SAM	04/14/25 21:46		Kareem	OK
114	Q1771-09DUP	TP-3ADUP	DUP	04/14/25 21:50		Kareem	OK
115	Q1771-09L	TP-3AL	SD	04/14/25 21:55		Kareem	OK
116	Q1771-09MS	TP-3AMS	MS	04/14/25 21:59		Kareem	OK
117	Q1771-09MSD	TP-3AMSD	MSD	04/14/25 22:03		Kareem	OK
118	Q1771-09A	TP-3AA	PS	04/14/25 22:07		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982
ICV Standard	MP84990,MP84988
CCV Standard	
ICSA Standard	MP84993,MP84996
CRI Standard	MP84988
LCS Standard	
Chk Standard	MP84998,MP84999

119	Q1769-08	EB01-040925	SAM	04/14/25 22:11		Kareem	OK
120	Q1752-01	TP-1	SAM	04/14/25 22:15		Kareem	OK
121	Q1752-03	TP-2	SAM	04/14/25 22:19		Kareem	OK
122	Q1752-05	TP-4	SAM	04/14/25 22:23		Kareem	OK
123	CCV10	CCV10	CCV	04/14/25 22:28		Kareem	OK
124	CCB10	CCB10	CCB	04/14/25 22:32		Kareem	OK
125	Q1752-07	TP-3	SAM	04/14/25 22:36		Kareem	OK
126	CCV11	CCV11	CCV	04/14/25 22:40		Kareem	OK
127	CCB11	CCB11	CCB	04/14/25 22:44		Kareem	OK
128	Q1752-02	TP-1	SAM	04/14/25 22:49		Kareem	OK
129	Q1752-04	TP-2	SAM	04/14/25 22:53		Kareem	OK
130	Q1752-06	TP-4	SAM	04/14/25 22:57		Kareem	OK
131	Q1752-08	TP-3	SAM	04/14/25 23:02		Kareem	OK
132	CCV12	CCV12	CCV	04/14/25 23:06	Fail for Na	Kareem	OK
133	CCB12	CCB12	CCB	04/14/25 23:11		Kareem	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167533

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 04/09/2025 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 04/09/2025 **Time :** 15:35 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKB.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6003
LFS-2	0.25	M6012
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL 50 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 16:35	SKB. met.dig	met. lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167533

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167517TB	PB167517TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
PB167533BL	PBW533	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
PB167533BS	LCS533	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	17
Q1743-04MS	TP-16MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	20
Q1743-04MSD	TP-16MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	21
Q1743-04DUP	TP-16DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
Q1743-04	TP-16	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	18
Q1744-02	B-158-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	22
Q1744-04	B-158-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	23
Q1745-04	IB-6A-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	24
Q1745-12	IB-6.5-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	25
Q1746-02	B-149-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	26
Q1746-04	B-149-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	27
Q1748-04	IB-1.5-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	28
Q1748-08	IB-2A-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	29
Q1749-04	TP-14	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	30
Q1752-02	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	31
Q1752-04	TP-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	32
Q1752-06	TP-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	33
Q1752-08	TP-4	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	34
Q1753-04	WC-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	35
Q1753-08	WC-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	36
Q1754-02	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	37
Q1754-04	TP-1-CONCRETE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	38

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167539

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 04/10/2025 **Time :** 09:45 **Temp :** 94 °C

End Digest Date: 04/10/2025 **Time :** 11:45 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JR

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85182
CCV	30mL	MP85184
CRA	30mL	MP85186
Blank Spike	0.48mL	MP85175
Matrix Spike	0.48mL	MP85175

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85176
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85177
2.5 ppb	S2.5	30mL	MP85178
5.0 ppb	S5.0	30mL	MP85179
7.5 ppb	S7.5	30mL	MP85180
10.0 ppb	S10.0	30mL	MP85181
ICV	ICV	30mL	MP85182
ICB	ICB	30mL	MP85183
CCV	CCV	30mL	MP85184
CCB	CCB	30mL	MP85185
CRI	CRI	30mL	MP85186
CHK STD	CHK STD	30mL	MP85187

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/11/25 @ 12:15	MB - Dig. Lab	MB - Room Temp Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167539

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167517TB	PB167517TB	3	30	<2	N/A	3-1
PB167539BL	PBW539	30	30	<2	N/A	2
PB167539BS	LCS539	30	30	<2	MP85175	3
Q1743-04DUP	TP-16DUP	3	30	<2	N/A	5
Q1743-04MS	TP-16MS	3	30	<2	MP85175	6
Q1743-04MSD	TP-16MSD	3	30	<2	MP85175	7
Q1743-04	TP-16	3	30	<2	N/A	4
Q1744-02	B-158-SB01	3	30	<2	N/A	8
Q1744-04	B-158-SB02	3	30	<2	N/A	9
Q1745-04	IB-6A-WC	3	30	<2	N/A	10
Q1745-12	IB-6.5-WC	3	30	<2	N/A	11
Q1746-02	B-149-SB01	3	30	<2	N/A	12
Q1746-04	B-149-SB02	3	30	<2	N/A	13
Q1748-04	IB-1.5-WC	3	30	<2	N/A	14
Q1748-08	IB-2A-WC	3	30	<2	N/A	15
Q1749-04	TP-14	3	30	<2	N/A	16
Q1752-02	TP-1	3	30	<2	N/A	17
Q1752-04	TP-2	3	30	<2	N/A	18
Q1752-06	TP-4	3	30	<2	N/A	19
Q1752-08	TP-3	3	30	<2	N/A	20
Q1753-04	WC-1	3	30	<2	N/A	21
Q1753-08	WC-2	3	30	<2	N/A	22
Q1754-02	TP-1	3	30	<2	N/A	23
Q1754-04	TP-1-CONCRETE	3	30	<2	N/A	24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JP

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JP 104 Room	9129. 154
	Preparation Group	Analysis Group

04/09/25

04/09 DJ

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167517

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25 20:25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-01	Matrix:	SOIL
		% Solid:	89.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.076	U	1	0.076	0.43	mg/Kg	04/07/25 11:40	04/07/25 15:26	7196A
pH	7.07	H	1	0	0	pH		04/07/25 16:50	9045D
Trivalent Chromium	12.0		1	0.56	0.56	mg/Kg		04/10/25 16:17	6010D

Comments: pH result reported at temperature 22.9 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25 20:25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB01	SDG No.:	Q1746
Lab Sample ID:	Q1746-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.07	H	1	0	0	pH		04/07/25 16:50	9045D
Ignitability	NO		1	0	0	oC		04/08/25 12:02	1030
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	04/07/25 15:00	04/08/25 11:21	9012B
Reactive Sulfide	3.19	J	1	0.20	10.0	mg/Kg	04/08/25 12:50	04/08/25 15:22	9034

Comments: pH result reported at temperature 22.3 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25 01:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-03	Matrix:	SOIL
		% Solid:	84.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.081	U	1	0.081	0.46	mg/Kg	04/07/25 11:40	04/07/25 15:27	7196A
pH	7.52	H	1	0	0	pH		04/07/25 17:00	9045D
Trivalent Chromium	11.9		1	0.59	0.59	mg/Kg		04/10/25 16:22	6010D

Comments: pH result reported at temperature 22.5 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25 01:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-SB02	SDG No.:	Q1746
Lab Sample ID:	Q1746-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.52	H	1	0	0	pH		04/07/25 17:00	9045D
Ignitability	NO		1	0	0	oC		04/08/25 12:10	1030
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	04/07/25 15:00	04/08/25 11:21	9012B
Reactive Sulfide	4.77	J	1	0.20	10.0	mg/Kg	04/08/25 12:50	04/08/25 15:24	9034

Comments: pH result reported at temperature 22.9 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25 23:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		04/07/25 13:17	7196A
trivalent Chromium	0.079		1	0.010	0.010	mg/L		04/14/25 20:56	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/06/25 03:45
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-149-GW01	SDG No.:	Q1746
Lab Sample ID:	Q1746-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		04/07/25 13:17	7196A
trivalent Chromium	0.20		1	0.010	0.010	mg/L		04/14/25 21:00	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/07/25 08:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	EB-2025-4-7	SDG No.:	Q1746
Lab Sample ID:	Q1746-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		04/07/25 13:19	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		04/14/25 21:25	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135322

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.514	0.5	103	90-110	04/07/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.510	0.5	102	90-110	04/07/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	04/07/2025

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135327

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Corrosivity		pH	7.01	7	100	90-110	04/07/2025
Sample ID:	**CCV1**						
Corrosivity		pH	2.02	2.00	101	90-110	04/07/2025
Sample ID:	**CCV2**						
Corrosivity		pH	12.02	12.00	100	90-110	04/07/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1746
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135328

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.01	7	100	90-110	04/07/2025
Sample ID: **CCV1**						
pH	pH	2.02	2.00	101	90-110	04/07/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	04/07/2025

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135331

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.495	0.5	99	90-110	04/07/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.484	0.5	97	90-110	04/07/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.489	0.5	98	90-110	04/07/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.485	0.5	97	90-110	04/07/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1746
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135341

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.09	0.099	91	85-115	04/08/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135322

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1746
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135331

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135341

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1746

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135322BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	04/07/2025
Sample ID: PB167461BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	04/07/2025
Sample ID: PB167494BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	04/08/2025
Sample ID: PB167498BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	04/08/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1746
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1712-01
Client ID: Z-05AMS
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1410		0.080	U	1470	40	96		04/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: Z-05AMS
SDG No.: Q1746
Sample ID: Q1712-01
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	44.1		0.080	U	45.7	2	96		04/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: Z-05AMS
SDG No.: Q1746
Sample ID: Q1712-01
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	37.6		0.080	U	45.7	2	82		04/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: B-149-GW01MS
SDG No.: Q1746
Sample ID: Q1746-06
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.97		0.0030	U	1.0	2	97		04/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1746
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1746-06
Client ID: B-149-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.97		0.0030	U	1.0	2	97		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: Z-05ADUP
SDG No.: Q1746
Sample ID: Q1712-01
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.080	U	0.080	U	1	0		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: Z-05ADUP
SDG No.: Q1746
Sample ID: Q1712-04
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		04/08/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: TT-8DUP
SDG No.: Q1746
Sample ID: Q1732-04
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0084	U	1	0		04/08/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1746
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1744-02
Client ID: B-158-SB01DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		04/08/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: B-149-SB02DUP
SDG No.: Q1746
Sample ID: Q1746-03
Percent Solids for Spike Sample: 84.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	7.52		7.53		1	0.13		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: B-149-SB02DUP
SDG No.: Q1746
Sample ID: Q1746-04
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	7.52		7.53		1	0.13		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1746
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1746-06
Client ID: B-149-GW01DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1746
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1746-06
Client ID: B-149-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.97		0.97		2	0.21		04/07/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1746
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB135322

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135322BS								
Hexavalent Chromium	mg/L	0.5	0.52		103	1	90-111	04/07/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1746
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB135331

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167461BS								
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	04/07/2025

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135322

Review By	rubina	Review On	4/7/2025 4:25:52 PM
Supervise By	Iwona	Supervise On	4/7/2025 4:26:45 PM
SubDirectory	LB135322	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112623,WP112622,WP112620,WP112619,WP112566,WP110380,WP112621,WP112626,WP112624,WP112625

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 13:10		rubina	OK
2	CAL2	CAL2	CAL	04/07/25 13:10		rubina	OK
3	CAL3	CAL3	CAL	04/07/25 13:11		rubina	OK
4	CAL4	CAL4	CAL	04/07/25 13:11		rubina	OK
5	CAL5	CAL5	CAL	04/07/25 13:12		rubina	OK
6	CAL6	CAL6	CAL	04/07/25 13:12		rubina	OK
7	CAL7	CAL7	CAL	04/07/25 13:13		rubina	OK
8	ICV	ICV	ICV	04/07/25 13:13		rubina	OK
9	ICB	ICB	ICB	04/07/25 13:14		rubina	OK
10	CCV1	CCV1	CCV	04/07/25 13:14		rubina	OK
11	CCB1	CCB1	CCB	04/07/25 13:15		rubina	OK
12	RL Check	RL Check	SAM	04/07/25 13:15		rubina	OK
13	LB135322BL	LB135322BL	MB	04/07/25 13:16		rubina	OK
14	LB135322BS	LB135322BS	LCS	04/07/25 13:16		rubina	OK
15	Q1746-05	B-158-GW01	SAM	04/07/25 13:17		rubina	OK
16	Q1746-06	B-149-GW01	SAM	04/07/25 13:17		rubina	OK
17	Q1746-06DUP	B-149-GW01DUP	DUP	04/07/25 13:18		rubina	OK
18	Q1746-06MS	B-149-GW01MS	MS	04/07/25 13:18	2ML WP111315+98.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135322

Review By	rubina	Review On	4/7/2025 4:25:52 PM
Supervise By	lwona	Supervise On	4/7/2025 4:26:45 PM
SubDirectory	LB135322	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112623,WP112622,WP112620,WP112619,WP112566,WP110380,WP112621,WP112626,WP112624,WP112625

19	Q1746-06MSD	B-149-GW01MSD	MSD	04/07/25 13:19	2ML WP111315+98.0ML SAMPLE	rubina	OK
20	Q1746-07	EB-2025-4-7	SAM	04/07/25 13:19		rubina	OK
21	CCV2	CCV2	CCV	04/07/25 13:20		rubina	OK
22	CCB2	CCB2	CCB	04/07/25 13:21		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135327

Review By	jignesh	Review On	4/7/2025 4:11:26 PM
Supervise By	Iwona	Supervise On	4/7/2025 4:25:16 PM
SubDirectory	LB135327	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 16:10		Jignesh	OK
2	CAL2	CAL2	CAL	04/07/25 16:11		Jignesh	OK
3	CAL3	CAL3	CAL	04/07/25 16:12		Jignesh	OK
4	ICV	ICV	ICV	04/07/25 16:15		Jignesh	OK
5	CCV1	CCV1	CCV	04/07/25 16:20		Jignesh	OK
6	Q1743-04	TP-16	SAM	04/07/25 16:25		Jignesh	OK
7	Q1744-02	B-158-SB01	SAM	04/07/25 16:30		Jignesh	OK
8	Q1744-04	B-158-SB02	SAM	04/07/25 16:33		Jignesh	OK
9	Q1745-04	IB-6A-WC	SAM	04/07/25 16:40		Jignesh	OK
10	Q1745-12	IB-6.5-WC	SAM	04/07/25 16:47		Jignesh	OK
11	Q1746-02	B-149-SB01	SAM	04/07/25 16:50		Jignesh	OK
12	Q1746-04	B-149-SB02	SAM	04/07/25 17:00		Jignesh	OK
13	Q1746-04DUP	B-149-SB02DUP	DUP	04/07/25 17:01		Jignesh	OK
14	CCV2	CCV2	CCV	04/07/25 17:05		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135328

Review By	jignesh	Review On	4/7/2025 4:09:30 PM
Supervise By	Iwona	Supervise On	4/7/2025 4:25:02 PM
SubDirectory	LB135328	Test	pH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 16:10		Jignesh	OK
2	CAL2	CAL2	CAL	04/07/25 16:11		Jignesh	OK
3	CAL3	CAL3	CAL	04/07/25 16:12		Jignesh	OK
4	ICV	ICV	ICV	04/07/25 16:15		Jignesh	OK
5	CCV1	CCV1	CCV	04/07/25 16:20		Jignesh	OK
6	Q1744-01	B-158-SB01	SAM	04/07/25 16:30		Jignesh	OK
7	Q1744-03	B-158-SB02	SAM	04/07/25 16:33		Jignesh	OK
8	Q1746-01	B-149-SB01	SAM	04/07/25 16:50		Jignesh	OK
9	Q1746-03	B-149-SB02	SAM	04/07/25 17:00		Jignesh	OK
10	Q1746-03DUP	B-149-SB02DUP	DUP	04/07/25 17:01		Jignesh	OK
11	CCV2	CCV2	CCV	04/07/25 17:05		Jignesh	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135331

Review By	rubina	Review On	4/7/2025 4:24:48 PM
Supervise By	Iwona	Supervise On	4/11/2025 3:14:36 PM
SubDirectory	LB135331	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112566,WP110380,WP110381,WP111249

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 14:55		rubina	OK
2	CAL2	CAL2	CAL	04/07/25 14:56		rubina	OK
3	CAL3	CAL3	CAL	04/07/25 14:57		rubina	OK
4	CAL4	CAL4	CAL	04/07/25 14:58		rubina	OK
5	CAL5	CAL5	CAL	04/07/25 14:59		rubina	OK
6	CAL6	CAL6	CAL	04/07/25 15:00		rubina	OK
7	CAL7	CAL7	CAL	04/07/25 15:01		rubina	OK
8	ICV	ICV	ICV	04/07/25 15:02		rubina	OK
9	ICB	ICB	ICB	04/07/25 15:03		rubina	OK
10	CCV1	CCV1	CCV	04/07/25 15:04		rubina	OK
11	CCB1	CCB1	CCB	04/07/25 15:05		rubina	OK
12	RL Check	RL Check	SAM	04/07/25 15:06		rubina	OK
13	PB167461BL	PB167461BL	MB	04/07/25 15:07		rubina	OK
14	PB167461BS	PB167461BS	LCS	04/07/25 15:08		rubina	OK
15	Q1656-04	VNJ239	SAM	04/07/25 15:09		rubina	OK
16	Q1712-01	Z-05A	SAM	04/07/25 15:10		rubina	OK
17	Q1712-01DUP	Z-05ADUP	DUP	04/07/25 15:11		rubina	OK
18	Q1712-01MSPre	Z-05AMS	MS	04/07/25 15:12		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135331

Review By	rubina	Review On	4/7/2025 4:24:48 PM
Supervise By	Iwona	Supervise On	4/11/2025 3:14:36 PM
SubDirectory	LB135331	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112566,WP110380,WP110381,WP111249

19	Q1712-01MS2Ins	Z-05AMS	MS	04/07/25 15:13		rubina	OK
20	Q1712-01MS3Post	Z-05AMS	MS	04/07/25 15:14		rubina	OK
21	Q1712-05	TT-7	SAM	04/07/25 15:15		rubina	OK
22	Q1732-01	TT-8	SAM	04/07/25 15:16		rubina	OK
23	CCV2	CCV2	CCV	04/07/25 15:17		rubina	OK
24	CCB2	CCB2	CCB	04/07/25 15:18		rubina	OK
25	Q1737-01	RT3069	SAM	04/07/25 15:19		rubina	OK
26	Q1740-01	TP-20	SAM	04/07/25 15:20		rubina	OK
27	Q1743-01	TP-16	SAM	04/07/25 15:21		rubina	OK
28	Q1744-01	B-158-SB01	SAM	04/07/25 15:22		rubina	OK
29	Q1744-03	B-158-SB02	SAM	04/07/25 15:23		rubina	OK
30	Q1745-01	IB-6A-WC	SAM	04/07/25 15:24		rubina	OK
31	Q1745-09	IB-6.5-WC	SAM	04/07/25 15:25		rubina	OK
32	Q1746-01	B-149-SB01	SAM	04/07/25 15:26		rubina	OK
33	Q1746-03	B-149-SB02	SAM	04/07/25 15:27		rubina	OK
34	CCV3	CCV3	CCV	04/07/25 15:28		rubina	OK
35	CCB3	CCB3	CCB	04/07/25 15:29		rubina	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB135338

Review By	rubina	Review On	4/8/2025 4:16:45 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:16:54 PM
SubDirectory	LB135338	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q1744-02	B-158-SB01	SAM	04/08/25 11:10		rubina	OK
2	Q1744-02DUP	B-158-SB01DUP	DUP	04/08/25 11:17		rubina	OK
3	Q1744-04	B-158-SB02	SAM	04/08/25 11:24		rubina	OK
4	Q1745-01	IB-6A-WC	SAM	04/08/25 11:32		rubina	OK
5	Q1745-04	IB-6A-WC	SAM	04/08/25 11:40		rubina	OK
6	Q1745-09	IB-6.5-WC	SAM	04/08/25 11:48		rubina	OK
7	Q1745-12	IB-6.5-WC	SAM	04/08/25 11:55		rubina	OK
8	Q1746-02	B-149-SB01	SAM	04/08/25 12:02		rubina	OK
9	Q1746-04	B-149-SB02	SAM	04/08/25 12:10		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135341

Review By	Niha	Review On	4/8/2025 4:17:46 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:36:03 PM
SubDirectory	LB135341	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112629,WP112630,WP112631,WP112632,WP112633,WP112634,WP112635
ICV Standard	WP112636
CCV Standard	WP112630
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111035,WP110103,WP112637

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/08/25 10:23		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/08/25 10:23		Niha	OK
3	10PPBCN	10PPBCN	CAL3	04/08/25 10:23		Niha	OK
4	50PPBCN	50PPBCN	CAL4	04/08/25 10:23		Niha	OK
5	100PPBCN	100PPBCN	CAL5	04/08/25 10:23		Niha	OK
6	250PPBCN	250PPBCN	CAL6	04/08/25 10:23		Niha	OK
7	500PPBCN	500PPBCN	CAL7	04/08/25 10:23		Niha	OK
8	ICV1	ICV1	ICV	04/08/25 10:58		Niha	OK
9	ICB1	ICB1	ICB	04/08/25 10:58		Niha	OK
10	CCV1	CCV1	CCV	04/08/25 10:58		Niha	OK
11	CCB1	CCB1	CCB	04/08/25 10:58		Niha	OK
12	PB167498BL	PB167498BL	MB	04/08/25 10:58		Niha	OK
13	Q1732-04	TT-8	SAM	04/08/25 10:58		Niha	OK
14	Q1732-04DUP	TT-8DUP	DUP	04/08/25 11:05		Niha	OK
15	Q1737-02	RT3069	SAM	04/08/25 11:05		Niha	OK
16	Q1740-04	TP-20	SAM	04/08/25 11:05		Niha	OK
17	Q1743-04	TP-16	SAM	04/08/25 11:05		Niha	OK
18	Q1744-02	B-158-SB01	SAM	04/08/25 11:06		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135341

Review By	Niha	Review On	4/8/2025 4:17:46 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:36:03 PM
SubDirectory	LB135341	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112629,WP112630,WP112631,WP112632,WP112633,WP112634,WP112635
ICV Standard	WP112636
CCV Standard	WP112630
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111035,WP110103,WP112637

19	Q1744-04	B-158-SB02	SAM	04/08/25 11:13		Niha	OK
20	Q1745-04	IB-6A-WC	SAM	04/08/25 11:13		Niha	OK
21	Q1745-12	IB-6.5-WC	SAM	04/08/25 11:13		Niha	OK
22	CCV2	CCV2	CCV	04/08/25 11:13		Niha	OK
23	CCB2	CCB2	CCB	04/08/25 11:20		Niha	OK
24	Q1746-02	B-149-SB01	SAM	04/08/25 11:21		Niha	OK
25	Q1746-04	B-149-SB02	SAM	04/08/25 11:21		Niha	OK
26	PB167505BL	PB167505BL	MB	04/08/25 11:21		Niha	OK
27	Q1739-02	WC-LIQUID-2025040	SAM	04/08/25 11:28		Niha	OK
28	Q1739-02DUP	WC-LIQUID-2025040	DUP	04/08/25 11:28		Niha	OK
29	CCV3	CCV3	CCV	04/08/25 11:28		Niha	OK
30	CCB3	CCB3	CCB	04/08/25 11:28		Niha	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135345

Review By	rubina	Review On	4/8/2025 3:47:43 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:16:02 PM
SubDirectory	LB135345	Test	Reactive Sulfide

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3105,W3114,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB167494BL	PB167494BL	MB	04/08/25 14:50		rubina	OK
2	Q1712-04	Z-05A	SAM	04/08/25 14:53		rubina	OK
3	Q1712-04DUP	Z-05ADUP	DUP	04/08/25 14:56		rubina	OK
4	Q1712-08	TT-7	SAM	04/08/25 14:58		rubina	OK
5	Q1732-04	TT-8	SAM	04/08/25 15:00		rubina	OK
6	Q1737-02	RT3069	SAM	04/08/25 15:03		rubina	OK
7	Q1740-04	TP-20	SAM	04/08/25 15:06		rubina	OK
8	Q1743-04	TP-16	SAM	04/08/25 15:09		rubina	OK
9	Q1744-02	B-158-SB01	SAM	04/08/25 15:12		rubina	OK
10	Q1744-04	B-158-SB02	SAM	04/08/25 15:15		rubina	OK
11	Q1745-04	IB-6A-WC	SAM	04/08/25 15:18		rubina	OK
12	Q1745-12	IB-6.5-WC	SAM	04/08/25 15:20		rubina	OK
13	Q1746-02	B-149-SB01	SAM	04/08/25 15:22		rubina	OK
14	Q1746-04	B-149-SB02	SAM	04/08/25 15:24		rubina	OK
15	Q1748-04	IB-1.5-WC	SAM	04/08/25 15:26		rubina	OK
16	Q1748-08	IB-2A-WC	SAM	04/08/25 15:28		rubina	OK
17	Q1749-04	TP-14	SAM	04/08/25 15:30		rubina	OK

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LAB CHRONICLE

OrderID:	Q1746	**OrderDate:**	4/7/2025 12:00:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1746-01	**B-149-SB01**	**SOIL**			**04/05/25 20:25**			**04/07/25**
			Hexavalent Chromium	7196A		04/07/25	04/07/25 15:26	
			pH	9045D			04/07/25 16:50	
			Trivalent Chromium	6010D			04/10/25 16:17	
Q1746-02	**B-149-SB01**	**SOIL**			**04/05/25 20:25**			**04/07/25**
			Corrosivity	9045D			04/07/25 16:50	
			Ignitability	1030			04/08/25 12:02	
			Reactive Cyanide	9012B		04/07/25	04/08/25 11:21	
			Reactive Sulfide	9034		04/08/25	04/08/25 15:22	
Q1746-03	**B-149-SB02**	**SOIL**			**04/06/25 01:10**			**04/07/25**
			Hexavalent Chromium	7196A		04/07/25	04/07/25 15:27	
			pH	9045D			04/07/25 17:00	
			Trivalent Chromium	6010D			04/10/25 16:22	
Q1746-04	**B-149-SB02**	**SOIL**			**04/06/25 01:10**			**04/07/25**
			Corrosivity	9045D			04/07/25 17:00	

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LAB CHRONICLE

			Ignitability	1030			04/08/25 12:10	
			Reactive Cyanide	9012B		04/07/25	04/08/25 11:21	
			Reactive Sulfide	9034		04/08/25	04/08/25 15:24	
Q1746-05	**B-158-GW01**	**WATER**			**04/05/25 23:00**			**04/07/25**
			Hexavalent Chromium	7196A			04/07/25 13:17	
			trivalent Chromium	6010D			04/14/25 20:56	
Q1746-06	**B-149-GW01**	**WATER**			**04/06/25 03:45**			**04/07/25**
			Hexavalent Chromium	7196A			04/07/25 13:17	
			trivalent Chromium	6010D			04/14/25 21:00	
Q1746-07	**EB-2025-4-7**	**WATER**			**04/07/25 08:30**			**04/07/25**
			Hexavalent Chromium	7196A			04/07/25 13:19	
			trivalent Chromium	6010D			04/14/25 21:25	

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167461

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Start Digest Date: 04/07/2025 **Time :** 11:40 **Temp :** 90 °C

Matrix : SOIL

End Digest Date: 04/07/2025 **Time :** 12:40 **Temp :** 95 °C

Pippete ID : WC

II batch 04/07/2025 13:00 90 °C
04/07/2025 14:00 95 °C RM

Balance ID : WC SC-7

Hood ID : HOOD#3 **Digestion tube ID :** M6054 **Block Thermometer ID :** WC-Block#1

Block ID : WC S-2, WC S-1 **Filter paper ID :** 400213 **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** WC pH meter-1 **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP112281
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP112618
CAL3	CAL3	0.5ML	WP112618
CAL4	CAL4	1ML	WP112618
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

04/07/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167461

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167461BL	PBS461	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB167461BS	LCS461	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1656-04	VNJ239	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01	Z-05A	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01DUP	Z-05ADUP	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MSPre	Z-05AMSPRE	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MS2Ins	Z-05AMS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MS3Post	Z-05AMS3POST	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-05	TT-7	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-01	TT-8	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-01	RT3069	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-01	TP-20	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-01	TP-16	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-01	B-158-SB01	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-03	B-158-SB02	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-01	IB-6A-WC	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-09	IB-6.5-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-01	B-149-SB01	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-03	B-149-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB167494

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : RM

Start Digest Date: 04/08/2025 **Time :** 12:50 **Temp :** N/A

End Digest Date: 04/08/2025 **Time :** 14:20 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP111004
FORMALDEHYDE	2.0ML	W2725
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

04/08/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB167494

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167494BL	PBS494	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-04DUP	Z-05ADUP	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-04	Z-05A	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-08	TT-7	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-02	RT3069	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-04	TP-20	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-02	B-158-SB01	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-04	B-158-SB02	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-04	IB-6A-WC	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-12	IB-6.5-WC	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-02	B-149-SB01	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-04	B-149-SB02	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1748-04	IB-1.5-WC	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1748-08	IB-2A-WC	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1749-04	TP-14	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167498

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Matrix : SOIL

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : NF

NF
04/11/25

Start Digest Date: ~~04/08/2025~~ 04/07/2025 **Time :** 15:00 **Temp :** N/A

End Digest Date: ~~04/08/2025~~ 04/07/2025 **Time :** 16:30 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: NF

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
~~04/08/2025~~ 04/07/2025 16:45	NF/WC	NF/WC
04/07/2025	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167498

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167498BL	PBS498	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04DUP	TT-8DUP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-02	RT3069	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-04	TP-20	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-02	B-158-SB01	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-04	B-158-SB02	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-04	IB-6A-WC	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-12	IB-6.5-WC	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-02	B-149-SB01	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-04	B-149-SB02	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A