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

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration		C	MDL	RDL	Units
Client ID:	**B-154-SB01**									
Q1422-01	B-154-SB01	SOIL	Acetone		18.3		J	8.00	32.0	ug/Kg
			Total Voc :			18.3				
Q1422-01	B-154-SB01	SOIL	Propene	*	13.4		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	1-Propene, 2-methyl-	*	17.4		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	Cyclopentane	*	16.6		J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	11H-Dibenzo[b,e][1,4]diazepin	*	22.4		J	0	0	ug/Kg
			Total Tics :			69.8				
			Total Concentration:			88.1				
Client ID:	**B-154-SB02**									
Q1422-02	B-154-SB02	SOIL	Benzeneethanamine, N-[(penta	*	4.20		J	0	0	ug/Kg
			Total Tics :			4.20				
			Total Concentration:			4.20				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.10	U	2.10	6.40	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.40	ug/Kg
75-01-4	Vinyl Chloride	0.99	U	0.99	6.40	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.40	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	6.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	6.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	6.40	ug/Kg
67-64-1	Acetone	18.3	J	8.00	32.0	ug/Kg
75-15-0	Carbon Disulfide	1.60	U	1.60	6.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.86	U	0.86	6.40	ug/Kg
79-20-9	Methyl Acetate	2.30	U	2.30	6.40	ug/Kg
75-09-2	Methylene Chloride	4.40	U	4.40	12.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	6.40	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	6.40	ug/Kg
78-93-3	2-Butanone	7.30	U	7.30	32.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	6.40	ug/Kg
74-97-5	Bromochloromethane	3.10	U	3.10	6.40	ug/Kg
67-66-3	Chloroform	0.86	U	0.86	6.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	6.40	ug/Kg
108-87-2	Methylcyclohexane	1.10	U	1.10	6.40	ug/Kg
71-43-2	Benzene	0.92	U	0.92	6.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.78	U	0.78	6.40	ug/Kg
79-01-6	Trichloroethene	0.96	U	0.96	6.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	6.40	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	6.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.60	U	5.60	32.0	ug/Kg
108-88-3	Toluene	0.86	U	0.86	6.40	ug/Kg

Raw Data: **VY021357.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.77	U	0.77	6.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.73	U	0.73	6.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.40	ug/Kg
591-78-6	2-Hexanone	6.10	U	6.10	32.0	ug/Kg
124-48-1	Dibromochloromethane	0.83	U	0.83	6.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	6.40	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.40	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	6.40	ug/Kg
100-41-4	Ethyl Benzene	0.79	U	0.79	6.40	ug/Kg
179601-23-1	m/p-Xylenes	1.70	U	1.70	12.8	ug/Kg
95-47-6	o-Xylene	0.90	U	0.90	6.40	ug/Kg
100-42-5	Styrene	0.77	U	0.77	6.40	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.40	ug/Kg
98-82-8	Isopropylbenzene	0.86	U	0.86	6.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	6.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.95	U	0.95	6.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.00	U	1.00	6.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.76	U	0.76	6.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	6.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	6.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.00	U	1.00	6.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		70 (50) - 130 (163)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	55.9		70 (54) - 130 (147)	112%	SPK: 50
2037-26-5	Toluene-d8	46.9		70 (58) - 130 (134)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	25.8	*	70 (29) - 130 (146)	52%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97000	7.707			
540-36-3	1,4-Difluorobenzene	161000	8.616			
3114-55-4	Chlorobenzene-d5	116000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	27800	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021357.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	4.42 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
VY021357.D	1		02/27/25 14:48	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000115-07-1	Propene	13.4	J		1.82	ug/Kg
000115-11-7	1-Propene, 2-methyl-	17.4	J		2.17	ug/Kg
000287-92-3	Cyclopentane	16.6	J		4.71	ug/Kg
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	22.4	J		13.9	ug/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
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: **VY021380.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.40	U	2.40	7.40	ug/Kg
74-87-3	Chloromethane	1.70	U	1.70	7.40	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	7.40	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	7.40	ug/Kg
75-00-3	Chloroethane	1.50	U	1.50	7.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	7.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	U	1.60	7.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.20	U	1.20	7.40	ug/Kg
67-64-1	Acetone	9.20	U	9.20	37.0	ug/Kg
75-15-0	Carbon Disulfide	1.90	U	1.90	7.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.99	U	0.99	7.40	ug/Kg
79-20-9	Methyl Acetate	2.70	U	2.70	7.40	ug/Kg
75-09-2	Methylene Chloride	5.00	U	5.00	14.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	7.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.93	U	0.93	7.40	ug/Kg
110-82-7	Cyclohexane	1.00	U	1.00	7.40	ug/Kg
78-93-3	2-Butanone	8.40	U	8.40	37.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.30	U	1.30	7.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	7.40	ug/Kg
74-97-5	Bromochloromethane	3.60	U	3.60	7.40	ug/Kg
67-66-3	Chloroform	0.99	U	0.99	7.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	7.40	ug/Kg
108-87-2	Methylcyclohexane	1.30	U	1.30	7.40	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.90	U	0.90	7.40	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	7.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.98	U	0.98	7.40	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	7.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.40	U	6.40	37.0	ug/Kg
108-88-3	Toluene	0.99	U	0.99	7.40	ug/Kg

Raw Data: **VY021380.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.89	U	0.89	7.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.84	U	0.84	7.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.20	U	1.20	7.40	ug/Kg
591-78-6	2-Hexanone	7.10	U	7.10	37.0	ug/Kg
124-48-1	Dibromochloromethane	0.96	U	0.96	7.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.20	U	1.20	7.40	ug/Kg
127-18-4	Tetrachloroethene	1.30	U	1.30	7.40	ug/Kg
108-90-7	Chlorobenzene	1.10	U	1.10	7.40	ug/Kg
100-41-4	Ethyl Benzene	0.92	U	0.92	7.40	ug/Kg
179601-23-1	m/p-Xylenes	2.00	U	2.00	14.8	ug/Kg
95-47-6	o-Xylene	1.00	U	1.00	7.40	ug/Kg
100-42-5	Styrene	0.89	U	0.89	7.40	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	7.40	ug/Kg
98-82-8	Isopropylbenzene	0.99	U	0.99	7.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.60	U	1.60	7.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.10	U	1.10	7.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	7.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.87	U	0.87	7.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.30	U	2.30	7.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.20	U	1.20	7.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.20	U	1.20	7.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		70 (63) - 130 (155)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (74) - 130 (123)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.8		70 (38) - 130 (136)	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	102000	7.707			
540-36-3	1,4-Difluorobenzene	172000	8.616			
3114-55-4	Chlorobenzene-d5	143000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	52000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01RE	SDG No.:	Q1422
Lab Sample ID:	Q1422-01RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.4
Sample Wt/Vol:	3.82 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
VY021380.D	1		02/28/25 13:20	VY022825

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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	3.20	ug/Kg
74-87-3	Chloromethane	0.74	U	0.74	3.20	ug/Kg
75-01-4	Vinyl Chloride	0.49	U	0.49	3.20	ug/Kg
74-83-9	Bromomethane	0.66	U	0.66	3.20	ug/Kg
75-00-3	Chloroethane	0.65	U	0.65	3.20	ug/Kg
75-69-4	Trichlorofluoromethane	0.58	U	0.58	3.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.69	U	0.69	3.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.50	U	0.50	3.20	ug/Kg
67-64-1	Acetone	4.00	U	4.00	16.0	ug/Kg
75-15-0	Carbon Disulfide	0.82	U	0.82	3.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.43	U	0.43	3.20	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.20	ug/Kg
75-09-2	Methylene Chloride	2.20	U	2.20	6.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.54	U	0.54	3.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.40	U	0.40	3.20	ug/Kg
110-82-7	Cyclohexane	0.44	U	0.44	3.20	ug/Kg
78-93-3	2-Butanone	3.60	U	3.60	16.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.56	U	0.56	3.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.39	U	0.39	3.20	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	3.20	ug/Kg
67-66-3	Chloroform	0.43	U	0.43	3.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.50	U	0.50	3.20	ug/Kg
108-87-2	Methylcyclohexane	0.56	U	0.56	3.20	ug/Kg
71-43-2	Benzene	0.46	U	0.46	3.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.39	U	0.39	3.20	ug/Kg
79-01-6	Trichloroethene	0.48	U	0.48	3.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.42	U	0.42	3.20	ug/Kg
75-27-4	Bromodichloromethane	0.36	U	0.36	3.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	16.0	ug/Kg
108-88-3	Toluene	0.43	U	0.43	3.20	ug/Kg

Raw Data: **VY021381.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.38	U	0.38	3.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.37	U	0.37	3.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.54	U	0.54	3.20	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	16.0	ug/Kg
124-48-1	Dibromochloromethane	0.42	U	0.42	3.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.51	U	0.51	3.20	ug/Kg
127-18-4	Tetrachloroethene	0.57	U	0.57	3.20	ug/Kg
108-90-7	Chlorobenzene	0.47	U	0.47	3.20	ug/Kg
100-41-4	Ethyl Benzene	0.40	U	0.40	3.20	ug/Kg
179601-23-1	m/p-Xylenes	0.86	U	0.86	6.40	ug/Kg
95-47-6	o-Xylene	0.45	U	0.45	3.20	ug/Kg
100-42-5	Styrene	0.38	U	0.38	3.20	ug/Kg
75-25-2	Bromoform	0.52	U	0.52	3.20	ug/Kg
98-82-8	Isopropylbenzene	0.43	U	0.43	3.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.70	U	0.70	3.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.47	U	0.47	3.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.51	U	0.51	3.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.38	U	0.38	3.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	1.00	3.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.51	U	0.51	3.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	3.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		70 (63) - 130 (155)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		70 (70) - 130 (134)	108%	SPK: 50
2037-26-5	Toluene-d8	47.4		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		70 (38) - 130 (136)	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	138000	7.707			
540-36-3	1,4-Difluorobenzene	246000	8.615			
3114-55-4	Chlorobenzene-d5	217000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	82200	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

Raw Data: **VY021381.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.3
Sample Wt/Vol:	8.94 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
VY021381.D	1		02/28/25 15:31	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
055429-85-1	Benzeneethanamine, N-[(pentafluoro	4.20	J		13.9	ug/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
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.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1422-01	B-154-SB01	1,2-Dichloroethane-d4	50	57.4	115		70 (50)	130 (163)
		Dibromofluoromethane	50	55.9	112		70 (54)	130 (147)
		Toluene-d8	50	46.9	94		70 (58)	130 (134)
		4-Bromofluorobenzene	50	25.9	52	*	70 (29)	130 (146)
Q1422-01RE	B-154-SB01RE	1,2-Dichloroethane-d4	50	48.5	97		70 (63)	130 (155)
		Dibromofluoromethane	50	51.9	104		70 (70)	130 (134)
		Toluene-d8	50	46.3	93		70 (74)	130 (123)
		4-Bromofluorobenzene	50	36.8	74		70 (38)	130 (136)
Q1422-02	B-154-SB02	1,2-Dichloroethane-d4	50	56.0	112		70 (63)	130 (155)
		Dibromofluoromethane	50	53.9	108		70 (70)	130 (134)
		Toluene-d8	50	47.5	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	41.2	82		70 (38)	130 (136)
VY0227SBL01	VY0227SBL01	1,2-Dichloroethane-d4	50	59.2	118		70 (50)	130 (163)
		Dibromofluoromethane	50	52.5	105		70 (54)	130 (147)
		Toluene-d8	50	48.2	96		70 (58)	130 (134)
		4-Bromofluorobenzene	50	49.5	99		70 (29)	130 (146)
VY0227SBS01	VY0227SBS01	1,2-Dichloroethane-d4	50	51.1	102		70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105		70 (54)	130 (147)
		Toluene-d8	50	52.3	105		70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.4	105		70 (29)	130 (146)
VY0227SBSD01	VY0227SBSD01	1,2-Dichloroethane-d4	50	45.2	90		70 (50)	130 (163)
		Dibromofluoromethane	50	45.6	91		70 (54)	130 (147)
		Toluene-d8	50	45.3	91		70 (58)	130 (134)
		4-Bromofluorobenzene	50	45.3	91		70 (29)	130 (146)
VY0228SBL01	VY0228SBL01	1,2-Dichloroethane-d4	50	52.2	104		70 (63)	130 (155)
		Dibromofluoromethane	50	52.0	104		70 (70)	130 (134)
		Toluene-d8	50	47.1	94		70 (74)	130 (123)
		4-Bromofluorobenzene	50	40.7	81		70 (38)	130 (136)
VY0228SBS01	VY0228SBS01	1,2-Dichloroethane-d4	50	43.2	86		70 (63)	130 (155)
		Dibromofluoromethane	50	45.7	91		70 (70)	130 (134)
		Toluene-d8	50	44.4	89		70 (74)	130 (123)
		4-Bromofluorobenzene	50	43.7	87		70 (38)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

( ) = 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.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.5	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.1	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.2	ug/Kg	101			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	18.5	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.3	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.9	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Cyclohexane	20	18.7	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	97.4	ug/Kg	97			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.9	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	19.0	ug/Kg	95			70 (80)	130 (127)	
	Chloroform	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100			70 (80)	130 (126)	
	Methylcyclohexane	20	19.3	ug/Kg	97			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.0	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.4	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	95.9	ug/Kg	96			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	19.9	ug/Kg	100			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	m/p-Xylenes	40	40.4	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	19.8	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	Bromoform	20	19.9	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			70 (83)	130 (124)	

( ) = 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.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95			70 (70)	130 (137)	

( ) = 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.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0227SBSD01	Dichlorodifluoromethane	20	18.7	ug/Kg	94	4		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.3	ug/Kg	92	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.6	ug/Kg	93	4		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.6	ug/Kg	93	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.7	ug/Kg	99	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.5	ug/Kg	98	3		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.5	ug/Kg	98	2		70 (79)	130 (121)	30 (20)
	Acetone	100	100	ug/Kg	100	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.4	ug/Kg	92	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	19.9	ug/Kg	100	4		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.4	ug/Kg	97	5		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.8	ug/Kg	104	4		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/Kg	97	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.3	ug/Kg	97	1		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.2	ug/Kg	91	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	3		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.8	ug/Kg	99	1		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.1	ug/Kg	101	6		70 (80)	130 (127)	30 (20)
	Chloroform	20	19.9	ug/Kg	100	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99	1		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.2	ug/Kg	96	1		70 (77)	130 (123)	30 (20)
	Benzene	20	19.8	ug/Kg	99	1		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.4	ug/Kg	102	0		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.0	ug/Kg	100	0		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	19.6	ug/Kg	98	1		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.2	ug/Kg	101	0		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	99.2	ug/Kg	99	7		40 (70)	160 (135)	30 (20)
	Toluene	20	19.9	ug/Kg	100	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98	1		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	99.7	ug/Kg	100	4		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.6	ug/Kg	103	4		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.1	ug/Kg	101	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.7	ug/Kg	99	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.6	ug/Kg	98	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.7	ug/Kg	99	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	39.4	ug/Kg	99	2		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.7	ug/Kg	99	0		70 (83)	130 (123)	30 (20)
	Styrene	20	19.5	ug/Kg	98	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.9	ug/Kg	100	0		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.5	ug/Kg	98	1		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	20.3	ug/Kg	102	7		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99	1		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99	1		70 (83)	130 (124)	30 (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.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021349.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0227SBSD01	1,2-Dibromo-3-Chloropropane	20	20.7	ug/Kg	104	10		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95	0		70 (70)	130 (137)	30 (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.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021377.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0228SBS01	Dichlorodifluoromethane	20	18.6	ug/Kg	93			40 (64)	160 (136)	
	Chloromethane	20	17.7	ug/Kg	89			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.1	ug/Kg	101			40 (58)	160 (141)	
	Chloroethane	20	20.1	ug/Kg	101			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.0	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.8	ug/Kg	94			70 (79)	130 (121)	
	Acetone	100	77.6	ug/Kg	78			40 (60)	160 (131)	
	Carbon disulfide	20	17.4	ug/Kg	87			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	18.8	ug/Kg	94			70 (77)	130 (129)	
	Methyl Acetate	20	18.4	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.1	ug/Kg	96			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.4	ug/Kg	92			70 (80)	130 (123)	
	1,1-Dichloroethane	20	18.2	ug/Kg	91			70 (82)	130 (123)	
	Cyclohexane	20	17.1	ug/Kg	86			70 (76)	130 (122)	
	2-Butanone	100	83.5	ug/Kg	84			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.5	ug/Kg	98			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	18.7	ug/Kg	94			70 (82)	130 (123)	
	Bromochloromethane	20	17.8	ug/Kg	89			70 (80)	130 (127)	
	Chloroform	20	18.9	ug/Kg	95			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.1	ug/Kg	96			70 (80)	130 (126)	
	Methylcyclohexane	20	18.1	ug/Kg	91			70 (77)	130 (123)	
	Benzene	20	19.1	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.5	ug/Kg	98			70 (81)	130 (126)	
	Trichloroethene	20	19.6	ug/Kg	98			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.0	ug/Kg	95			70 (83)	130 (122)	
	Bromodichloromethane	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.3	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	18.6	ug/Kg	93			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	18.7	ug/Kg	94			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.7	ug/Kg	99			70 (82)	130 (125)	
	2-Hexanone	100	91.3	ug/Kg	91			40 (66)	160 (138)	
	Dibromochloromethane	20	20.4	ug/Kg	102			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	20.4	ug/Kg	102			70 (83)	130 (125)	
	Chlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	m/p-Xylenes	40	39.2	ug/Kg	98			70 (83)	130 (124)	
	o-Xylene	20	19.4	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.6	ug/Kg	98			70 (82)	130 (124)	
	Bromoform	20	20.2	ug/Kg	101			70 (75)	130 (127)	
	Isopropylbenzene	20	18.9	ug/Kg	95			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021377.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0228SBS01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/Kg	93			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.7	ug/Kg	94			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0227SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021347.D Lab Sample ID: VY0227SBL01

Date Analyzed: 02/27/2025 Time Analyzed: 10:42

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
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025
VY0227SBSD01	VY0227SBSD01	VY021349.D	02/27/2025
B-154-SB01	Q1422-01	VY021357.D	02/27/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0228SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021376.D Lab Sample ID: VY0228SBL01

Date Analyzed: 02/28/2025 Time Analyzed: 10:59

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
VY0228SBS01	VY0228SBS01	VY021377.D	02/28/2025
B-154-SB01RE	Q1422-01RE	VY021380.D	02/28/2025
B-154-SB02	Q1422-02	VY021381.D	02/28/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021308.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_Y BFB Injection Time: 12:10

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	20.8
75	30.0 - 60.0% of mass 95	55.4
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	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.6 (98.8) 1
177	5.0 - 9.0% of mass 176	5.5 (6.5) 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
VSTDICC005	VSTDICC005	VY021309.D	02/25/2025	12:40
VSTDICC010	VSTDICC010	VY021310.D	02/25/2025	13:03
VSTDICC020	VSTDICC020	VY021311.D	02/25/2025	13:26
VSTDICCC050	VSTDICCC050	VY021312.D	02/25/2025	14:48
VSTDICC150	VSTDICC150	VY021314.D	02/25/2025	15:57
VSTDICC100	VSTDICC100	VY021316.D	02/25/2025	16:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021345.D BFB Injection Date: 02/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:41

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	21.8
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.5 (7.8) 1
176	95.0 - 101.0% of mass 174	80.4 (96.4) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 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	VY021346.D	02/27/2025	10:13
VY0227SBL01	VY0227SBL01	VY021347.D	02/27/2025	10:42
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025	11:18
VY0227SBSD01	VY0227SBSD01	VY021349.D	02/27/2025	11:40
B-154-SB01	Q1422-01	VY021357.D	02/27/2025	14:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021374.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:03

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	22.7
75	30.0 - 60.0% of mass 95	56.9
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	1.4 (1.6) 1
174	50.0 - 100.0% of mass 95	84
175	5.0 - 9.0% of mass 174	6.5 (7.7) 1
176	95.0 - 101.0% of mass 174	80.5 (95.9) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 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	VY021375.D	02/28/2025	09:44
VY0228SBL01	VY0228SBL01	VY021376.D	02/28/2025	10:59
VY0228SBS01	VY0228SBS01	VY021377.D	02/28/2025	11:32
B-154-SB01RE	Q1422-01RE	VY021380.D	02/28/2025	13:20
B-154-SB02	Q1422-02	VY021381.D	02/28/2025	15:31

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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	216838		7.71	336652		8.62	298167		11.42
UPPER LIMIT	433676		8.207	673304		9.116	596334		11.92
LOWER LIMIT	108419		7.207	168326		8.116	149084		10.92
EPA SAMPLE NO.									
B-154-SB01	96952	*	7.71	160918	*	8.62	115865	*	11.41
VY0227SBL01	140233		7.71	264026		8.62	255103		11.41
VY0227SBS01	199987		7.71	311959		8.62	272418		11.41
VY0227SBSD01	198659		7.71	310671		8.61	272052		11.41

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.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

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

	IS4 AREA #		RT #				
12 HOUR STD	146841		13.347				
UPPER LIMIT	293682		13.847				
LOWER LIMIT	73420.5		12.847				
EPA SAMPLE NO.							
B-154-SB01	27807	*	13.35				
VY0227SBL01	107368		13.35				
VY0227SBS01	138215		13.35				
VY0227SBSD01	137933		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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021375.D Date Analyzed: 02/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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	170466	7.71	255493	8.62	227302	11.42
UPPER LIMIT	340932	8.207	510986	9.116	454604	11.92
LOWER LIMIT	85233	7.207	127747	8.116	113651	10.92
EPA SAMPLE NO.						
B-154-SB01RE	101641	7.71	171514	8.62	143270	11.41
B-154-SB02	137587	7.71	246433	8.62	216935	11.42
VY0228SBL01	105534	7.71	180558	8.62	159029	11.42
VY0228SBS01	168970	7.71	257471	8.62	224033	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.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: VY021375.D Date Analyzed: 02/28/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:44

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

	IS4 AREA #		RT #				
12 HOUR STD	113605		13.353				
UPPER LIMIT	227210		13.853				
LOWER LIMIT	56802.5		12.853				
EPA SAMPLE NO.							
B-154-SB01RE	51974	*	13.35				
B-154-SB02	82177		13.35				
VY0228SBL01	59388		13.35				
VY0228SBS01	115456		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

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:	VY0227SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBL01	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
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	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	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

Raw Data: **VY021347.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:	VY0227SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBL01	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
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		70 (29) - 130 (146)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.707			
540-36-3	1,4-Difluorobenzene	264000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.346			

Raw Data: **VY021347.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:	VY0227SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBL01	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
VY021347.D	1		02/27/25 10:42	VY022725

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:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	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
VY021376.D	1		02/28/25 10:59	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	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	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	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:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	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
VY021376.D	1		02/28/25 10:59	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	47.1		70 (74) - 130 (123)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.7		70 (38) - 130 (136)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	7.713			
540-36-3	1,4-Difluorobenzene	181000	8.616			
3114-55-4	Chlorobenzene-d5	159000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	59400	13.353			

Raw Data: **VY021376.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:	VY0228SBL01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBL01	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
VY021376.D	1		02/28/25 10:59	VY022825

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:	VY0227SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBS01	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
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	97.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.9		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.3		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.0		4.40	25.0	ug/Kg
108-88-3	Toluene	20.2		0.67	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:	VY0227SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBS01	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
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.4		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	95.9		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	312000	8.616			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.346			

Raw Data: **VY021348.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:	VY0227SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBS01	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
VY021348.D	1		02/27/25 11:18	VY022725

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:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	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
VY021377.D	1		02/28/25 11:32	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	17.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.0		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.8		0.78	5.00	ug/Kg
67-64-1	Acetone	77.6		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.1		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.2		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	83.5		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.5		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.8		2.40	5.00	ug/Kg
67-66-3	Chloroform	18.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.1		0.87	5.00	ug/Kg
71-43-2	Benzene	19.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.0		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.3		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

Raw Data: **VY021377.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:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	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
VY021377.D	1		02/28/25 11:32	VY022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.7		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	91.3		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.6		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.7		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.2		70 (63) - 130 (155)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	45.7		70 (70) - 130 (134)	91%	SPK: 50
2037-26-5	Toluene-d8	44.3		70 (74) - 130 (123)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.7		70 (38) - 130 (136)	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	7.707			
540-36-3	1,4-Difluorobenzene	257000	8.616			
3114-55-4	Chlorobenzene-d5	224000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.346			

Raw Data: **VY021377.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:	VY0228SBS01	SDG No.:	Q1422
Lab Sample ID:	VY0228SBS01	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
VY021377.D	1		02/28/25 11:32	VY022825

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

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:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	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
VY021349.D	1		02/27/25 11:40	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.3		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.6		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.5		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.5		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.4		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.9		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.2		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	20.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.6		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.2		4.40	25.0	ug/Kg
108-88-3	Toluene	19.9		0.67	5.00	ug/Kg

Raw Data: **VY021349.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:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	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
VY021349.D	1		02/27/25 11:40	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	99.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.6		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.1		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.70	5.00	ug/Kg
100-42-5	Styrene	19.5		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.3		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.2		70 (50) - 130 (163)	90%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		70 (54) - 130 (147)	91%	SPK: 50
2037-26-5	Toluene-d8	45.3		70 (58) - 130 (134)	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		70 (29) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	199000	7.707			
540-36-3	1,4-Difluorobenzene	311000	8.61			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.347			

Raw Data: **VY021349.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:	VY0227SBSD01	SDG No.:	Q1422
Lab Sample ID:	VY0227SBSD01	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
VY021349.D	1		02/27/25 11:40	VY022725

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

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.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.510	0.484	0.431	0.493	0.480	0.447	0.474	6.2
Chloromethane	0.709	0.628	0.566	0.602	0.597	0.570	0.612	8.6
Vinyl Chloride	0.648	0.591	0.554	0.627	0.606	0.580	0.601	5.6
Bromomethane	0.505	0.414	0.361	0.387	0.371	0.359	0.399	13.9
Chloroethane	0.414	0.365	0.347	0.390	0.365	0.355	0.373	6.7
Trichlorofluoromethane	0.976	0.915	0.838	0.936	0.909	0.870	0.908	5.3
1,1,2-Trichlorotrifluoroethane	0.546	0.529	0.491	0.537	0.541	0.508	0.525	4.1
1,1-Dichloroethene	0.545	0.489	0.462	0.515	0.518	0.490	0.503	5.7
Acetone	0.122	0.102	0.094	0.128	0.104	0.103	0.109	11.9
Carbon Disulfide	1.800	1.652	1.540	1.734	1.678	1.620	1.671	5.4
Methyl tert-butyl Ether	1.312	1.268	1.267	1.410	1.410	1.307	1.329	4.9
Methyl Acetate	0.285	0.249	0.259	0.276	0.276	0.250	0.266	5.7
Methylene Chloride	0.733	0.598	0.539	0.585	0.547	0.529	0.588	12.8
trans-1,2-Dichloroethene	0.589	0.536	0.507	0.573	0.570	0.547	0.554	5.4
1,1-Dichloroethane	1.101	1.032	0.961	1.083	1.058	1.007	1.040	4.9
Cyclohexane	1.182	1.025	0.910	0.989	0.971	0.923	1.000	9.9
2-Butanone	0.162	0.155	0.156	0.183	0.171	0.159	0.164	6.5
Carbon Tetrachloride	0.567	0.562	0.509	0.581	0.567	0.535	0.554	4.8
cis-1,2-Dichloroethene	0.649	0.610	0.588	0.665	0.656	0.626	0.632	4.7
Bromochloromethane	0.525	0.442	0.438	0.454	0.464	0.439	0.460	7.2
Chloroform	1.128	1.046	0.977	1.095	1.062	1.017	1.054	5.1
1,1,1-Trichloroethane	1.020	0.956	0.889	0.986	0.979	0.927	0.960	4.8
Methylcyclohexane	0.597	0.613	0.584	0.662	0.663	0.618	0.623	5.3
Benzene	1.515	1.445	1.359	1.533	1.472	1.409	1.456	4.5
1,2-Dichloroethane	0.422	0.417	0.393	0.434	0.419	0.394	0.413	3.9
Trichloroethene	0.375	0.360	0.341	0.382	0.375	0.354	0.364	4.3
1,2-Dichloropropane	0.360	0.350	0.329	0.371	0.357	0.336	0.350	4.5
Bromodichloromethane	0.519	0.503	0.477	0.541	0.528	0.495	0.511	4.5
4-Methyl-2-Pentanone	0.220	0.227	0.239	0.267	0.264	0.238	0.243	7.9
Toluene	0.887	0.888	0.852	0.965	0.936	0.897	0.904	4.4

* 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,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.438	0.436	0.434	0.515	0.509	0.474	0.468	8
cis-1,3-Dichloropropene	0.541	0.526	0.528	0.591	0.581	0.546	0.552	5
1,1,2-Trichloroethane	0.250	0.251	0.238	0.267	0.254	0.237	0.249	4.4
2-Hexanone	0.133	0.146	0.155	0.183	0.178	0.162	0.159	11.9
Dibromochloromethane	0.340	0.325	0.322	0.368	0.352	0.332	0.340	5.2
1,2-Dibromoethane	0.234	0.231	0.226	0.254	0.245	0.227	0.236	4.7
Tetrachloroethene	0.405	0.380	0.351	0.389	0.386	0.355	0.378	5.5
Chlorobenzene	1.171	1.111	1.039	1.176	1.159	1.078	1.122	5
Ethyl Benzene	1.938	1.941	1.826	2.130	2.115	1.979	1.988	5.8
m/p-Xylenes	0.735	0.738	0.696	0.802	0.783	0.733	0.748	5.1
o-Xylene	0.689	0.675	0.648	0.758	0.739	0.694	0.701	5.9
Styrene	1.081	1.128	1.091	1.277	1.257	1.159	1.166	7.2
Bromoform	0.221	0.221	0.211	0.246	0.236	0.214	0.225	5.9
Isopropylbenzene	3.744	3.605	3.437	3.976	4.009	3.783	3.759	5.8
1,1,2,2-Tetrachloroethane	0.700	0.649	0.621	0.697	0.689	0.624	0.663	5.5
1,3-Dichlorobenzene	1.812	1.729	1.598	1.792	1.777	1.668	1.730	4.8
1,4-Dichlorobenzene	1.825	1.710	1.593	1.751	1.744	1.629	1.709	5
1,2-Dichlorobenzene	1.599	1.499	1.408	1.575	1.564	1.446	1.515	5.1
1,2-Dibromo-3-Chloropropane	0.103	0.097	0.099	0.113	0.115	0.102	0.105	7.2
1,2,4-Trichlorobenzene	0.906	0.848	0.822	0.968	1.053	0.950	0.925	9.2
1,2,3-Trichlorobenzene	0.742	0.719	0.698	0.824	0.896	0.809	0.781	9.6
1,2-Dichloroethane-d4	0.681	0.510	0.548	0.551	0.566	0.547	0.567	10.3
Dibromofluoromethane	0.370	0.299	0.317	0.325	0.334	0.322	0.328	7.2
Toluene-d8	1.420	1.158	1.230	1.251	1.290	1.253	1.267	6.8
4-Bromofluorobenzene	0.490	0.387	0.404	0.423	0.435	0.420	0.426	8.2

* 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.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.413		-12.87	20
Chloromethane	0.612	0.531	0.1	-13.23	20
Vinyl Chloride	0.601	0.554		-7.82	20
Bromomethane	0.399	0.355		-11.03	20
Chloroethane	0.373	0.354		-5.09	20
Trichlorofluoromethane	0.908	0.857		-5.62	20
1,1,2-Trichlorotrifluoroethane	0.525	0.483		-8	20
1,1-Dichloroethene	0.503	0.467		-7.16	20
Acetone	0.109	0.108		-0.92	20
Carbon Disulfide	1.671	1.540		-7.84	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.254		-4.51	20
Methylene Chloride	0.588	0.523		-11.05	20
trans-1,2-Dichloroethene	0.554	0.533		-3.79	20
1,1-Dichloroethane	1.040	0.977	0.1	-6.06	20
Cyclohexane	1.000	0.858		-14.2	20
2-Butanone	0.164	0.156		-4.88	20
Carbon Tetrachloride	0.554	0.524		-5.41	20
cis-1,2-Dichloroethene	0.632	0.615		-2.69	20
Bromochloromethane	0.460	0.454		-1.3	20
Chloroform	1.054	0.999		-5.22	20
1,1,1-Trichloroethane	0.960	0.904		-5.83	20
Methylcyclohexane	0.623	0.568		-8.83	20
Benzene	1.456	1.381		-5.15	20
1,2-Dichloroethane	0.413	0.403		-2.42	20
Trichloroethene	0.364	0.350		-3.85	20
1,2-Dichloropropane	0.350	0.331		-5.43	20
Bromodichloromethane	0.511	0.501		-1.96	20
4-Methyl-2-Pentanone	0.243	0.236		-2.88	20
Toluene	0.904	0.878		-2.88	20
t-1,3-Dichloropropene	0.468	0.463		-1.07	20
cis-1,3-Dichloropropene	0.552	0.535		-3.08	20
1,1,2-Trichloroethane	0.249	0.238		-4.42	20
2-Hexanone	0.159	0.157		-1.26	20
Dibromochloromethane	0.340	0.334		-1.76	20
1,2-Dibromoethane	0.236	0.228		-3.39	20
Tetrachloroethene	0.378	0.347		-8.2	20
Chlorobenzene	1.122	1.069	0.3	-4.72	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.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.908		-4.02	20
m/p-Xylenes	0.748	0.712		-4.81	20
o-Xylene	0.701	0.674		-3.85	20
Styrene	1.166	1.136		-2.57	20
Bromoform	0.225	0.221	0.1	-1.78	20
Isopropylbenzene	3.759	3.639		-3.19	20
1,1,2,2-Tetrachloroethane	0.663	0.638	0.3	-3.77	20
1,3-Dichlorobenzene	1.730	1.628		-5.9	20
1,4-Dichlorobenzene	1.709	1.598		-6.49	20
1,2-Dichlorobenzene	1.515	1.449		-4.36	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.872		-5.73	20
1,2,3-Trichlorobenzene	0.781	0.739		-5.38	20
1,2-Dichloroethane-d4	0.567	0.558		-1.59	20
Dibromofluoromethane	0.328	0.334		1.83	20
Toluene-d8	1.267	1.261		-0.47	20
4-Bromofluorobenzene	0.426	0.425		-0.23	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.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/28/2025 09:44

Lab File ID: VY021375.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.440		-7.17	20
Chloromethane	0.612	0.566	0.1	-7.52	20
Vinyl Chloride	0.601	0.616		2.5	20
Bromomethane	0.399	0.411		3.01	20
Chloroethane	0.373	0.400		7.24	20
Trichlorofluoromethane	0.908	0.936		3.08	20
1,1,2-Trichlorotrifluoroethane	0.525	0.511		-2.67	20
1,1-Dichloroethene	0.503	0.487		-3.18	20
Acetone	0.109	0.132		21.1	20
Carbon Disulfide	1.671	1.585		-5.15	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.247		-7.14	20
Methylene Chloride	0.588	0.547		-6.97	20
trans-1,2-Dichloroethene	0.554	0.549		-0.9	20
1,1-Dichloroethane	1.040	1.009	0.1	-2.98	20
Cyclohexane	1.000	0.868		-13.2	20
2-Butanone	0.164	0.166		1.22	20
Carbon Tetrachloride	0.554	0.578		4.33	20
cis-1,2-Dichloroethene	0.632	0.635		0.47	20
Bromochloromethane	0.460	0.462		0.44	20
Chloroform	1.054	1.043		-1.04	20
1,1,1-Trichloroethane	0.960	0.951		-0.94	20
Methylcyclohexane	0.623	0.607		-2.57	20
Benzene	1.456	1.487		2.13	20
1,2-Dichloroethane	0.413	0.436		5.57	20
Trichloroethene	0.364	0.375		3.02	20
1,2-Dichloropropane	0.350	0.356		1.71	20
Bromodichloromethane	0.511	0.537		5.09	20
4-Methyl-2-Pentanone	0.243	0.242		-0.41	20
Toluene	0.904	0.955		5.64	20
t-1,3-Dichloropropene	0.468	0.488		4.27	20
cis-1,3-Dichloropropene	0.552	0.565		2.36	20
1,1,2-Trichloroethane	0.249	0.254		2.01	20
2-Hexanone	0.159	0.168		5.66	20
Dibromochloromethane	0.340	0.362		6.47	20
1,2-Dibromoethane	0.236	0.241		2.12	20
Tetrachloroethene	0.378	0.394		4.23	20
Chlorobenzene	1.122	1.154	0.3	2.85	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.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: MSVOA_Y Calibration Date/Time: 02/28/2025 09:44

Lab File ID: VY021375.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	2.041		2.67	20
m/p-Xylenes	0.748	0.775		3.61	20
o-Xylene	0.701	0.722		3	20
Styrene	1.166	1.235		5.92	20
Bromoform	0.225	0.232	0.1	3.11	20
Isopropylbenzene	3.759	3.861		2.71	20
1,1,2,2-Tetrachloroethane	0.663	0.654	0.3	-1.36	20
1,3-Dichlorobenzene	1.730	1.775		2.6	20
1,4-Dichlorobenzene	1.709	1.709		0	20
1,2-Dichlorobenzene	1.515	1.525		0.66	20
1,2-Dibromo-3-Chloropropane	0.105	0.101		-3.81	20
1,2,4-Trichlorobenzene	0.925	0.898		-2.92	20
1,2,3-Trichlorobenzene	0.781	0.738		-5.51	20
1,2-Dichloroethane-d4	0.567	0.567		0	20
Dibromofluoromethane	0.328	0.351		7.01	20
Toluene-d8	1.267	1.327		4.74	20
4-Bromofluorobenzene	0.426	0.441		3.52	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\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Time: Feb 28 00:42:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	96952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	160918	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	115865	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	27807	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	63167	57.433	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.860%			
35) Dibromofluoromethane	7.634	113	58988	55.913	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 111.820%			
50) Toluene-d8	10.103	98	191349	46.931	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 93.860%			
62) 4-Bromofluorobenzene	12.408	95	35465	25.846	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 51.700%			
Target Compounds						Qvalue
16) Acetone	3.866	43	3021	14.319	ug/l	97

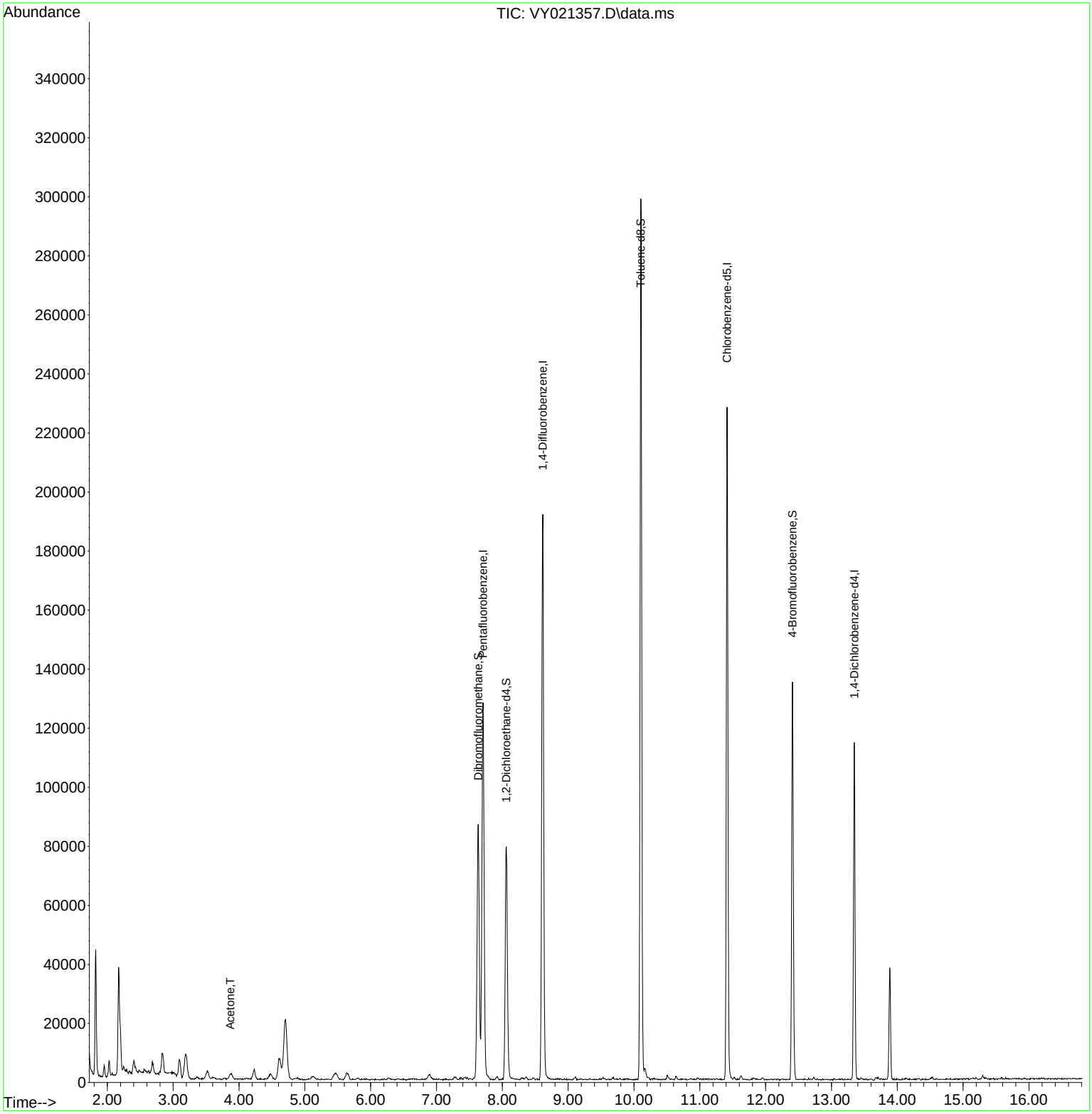
(#) = qualifier out of range (m) = manual integration (+) = signals summed

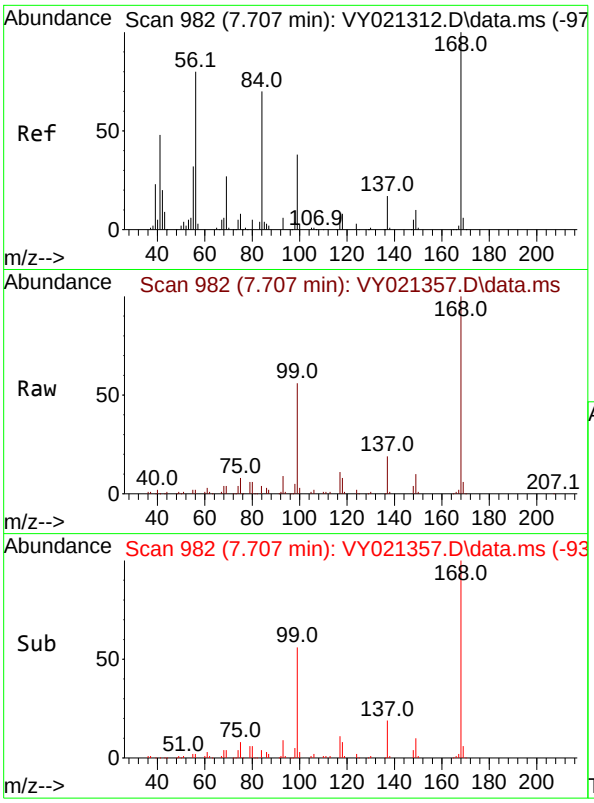
Sample Results: **VY021357.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Time: Feb 28 00:42:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



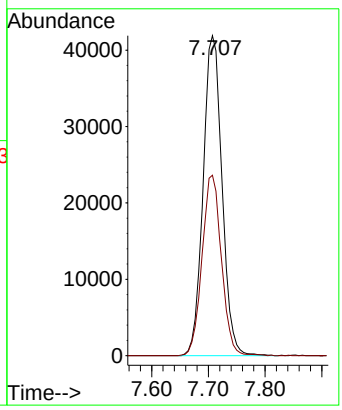


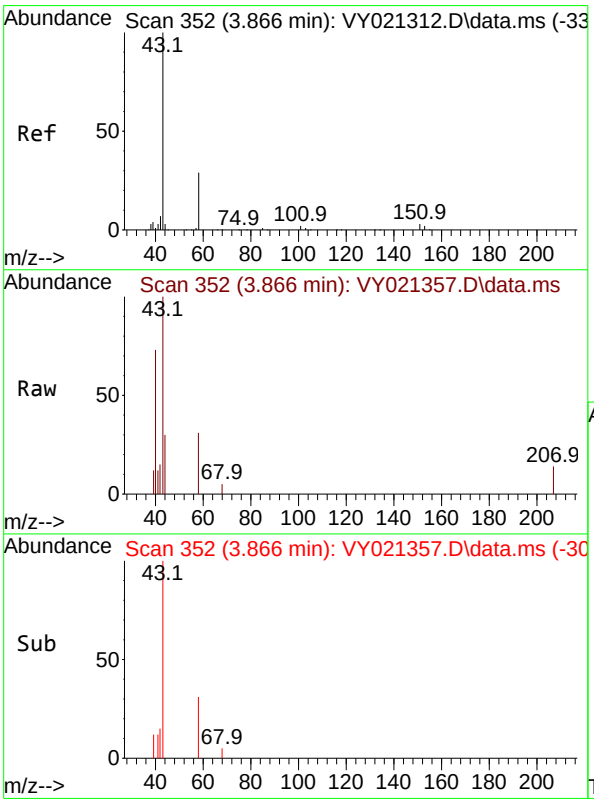
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:168 Resp: 96952

Ion	Ratio	Lower	Upper
168	100		
99	56.4	47.1	70.7

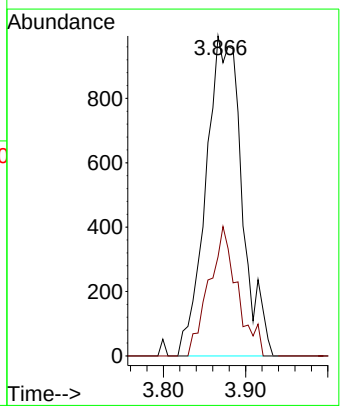


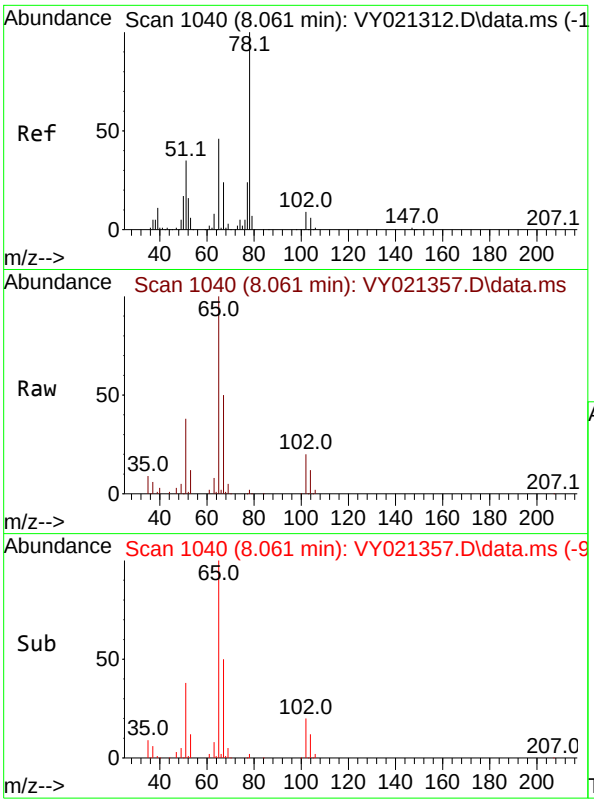


#16
Acetone
Concen: 14.319 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 43 Resp: 3021

Ion	Ratio	Lower	Upper
43	100		
58	31.0	23.5	35.3



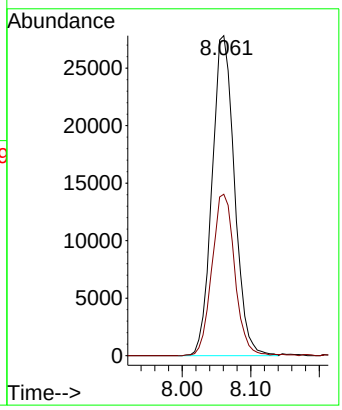


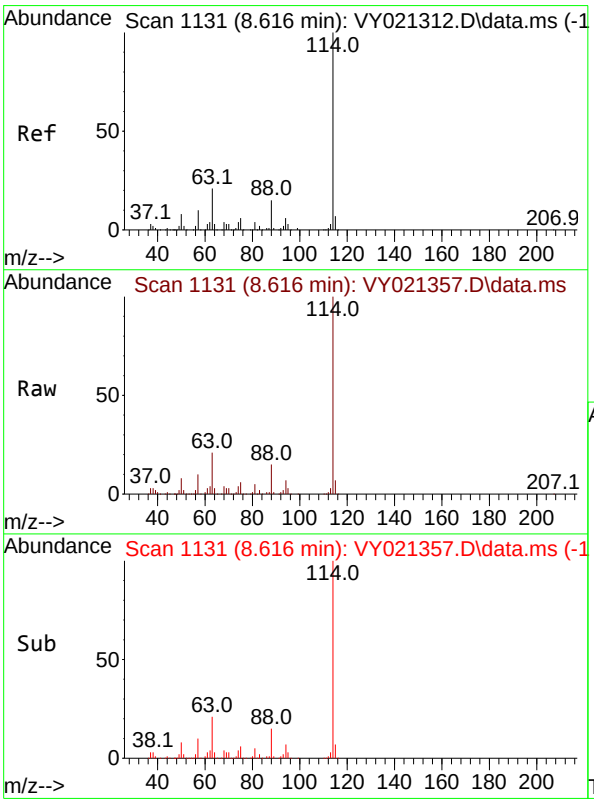
#33
1,2-Dichloroethane-d4
Concen: 57.433 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion: 65 Resp: 63167

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.6

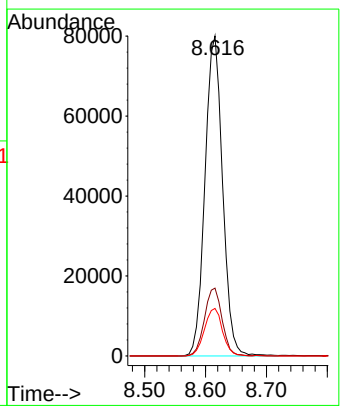


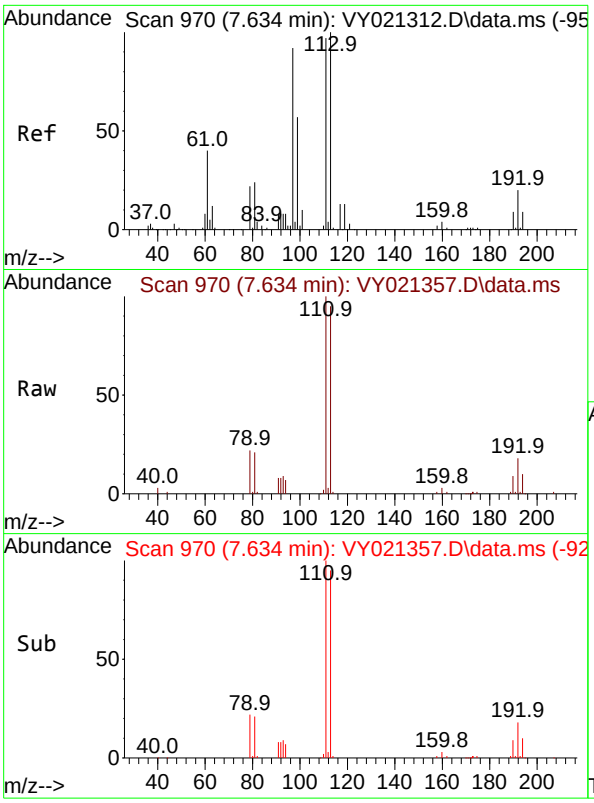


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion:114 Resp: 160918

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.2
88	14.9	0.0	29.8



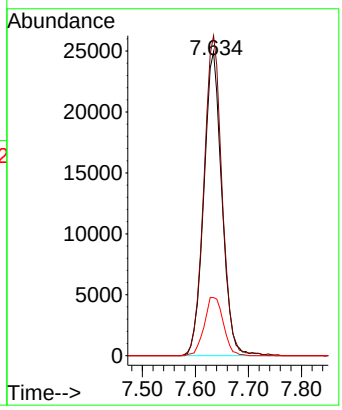


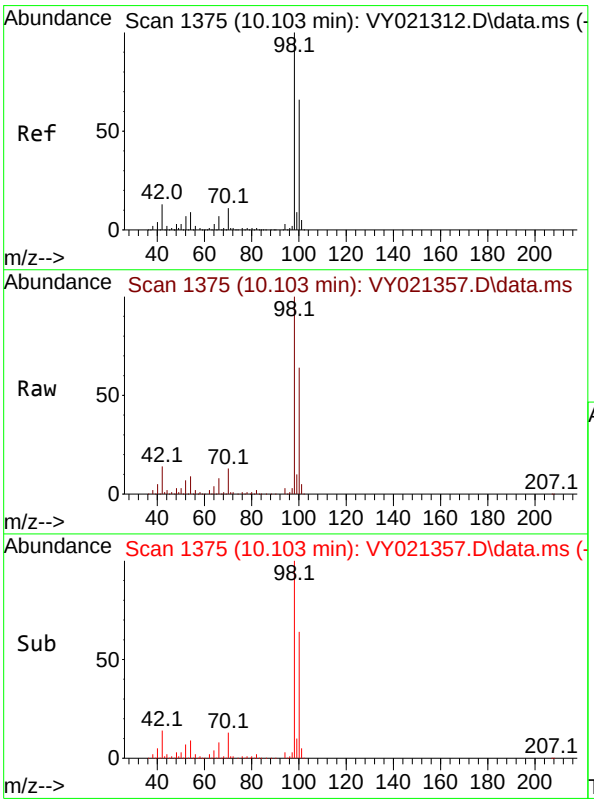
#35
Dibromofluoromethane
Concen: 55.913 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:113 Resp: 58988

Ion	Ratio	Lower	Upper
113	100		
111	105.7	81.0	121.6
192	20.3	15.8	23.8

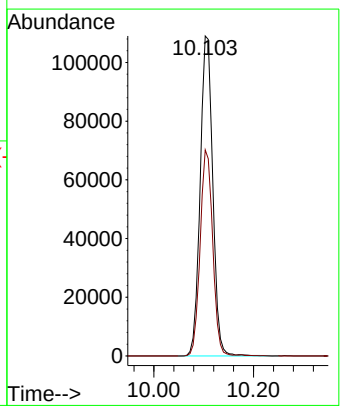




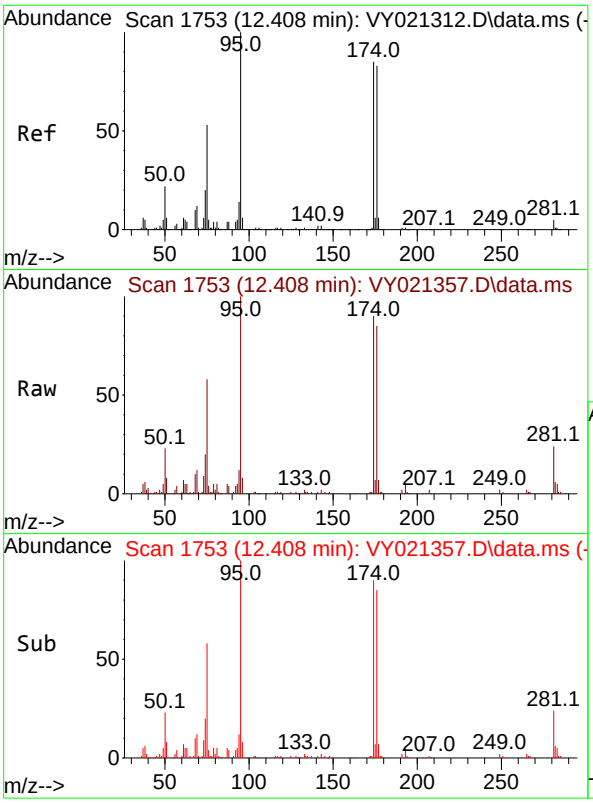
#50
Toluene-d8
Concen: 46.931 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 98 Resp: 191349

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.4	78.6



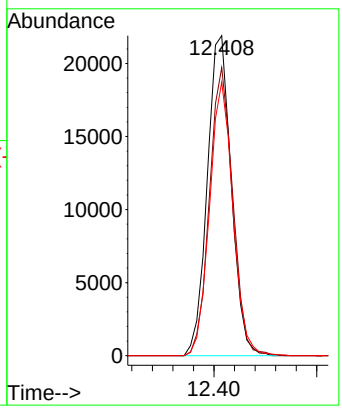
Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

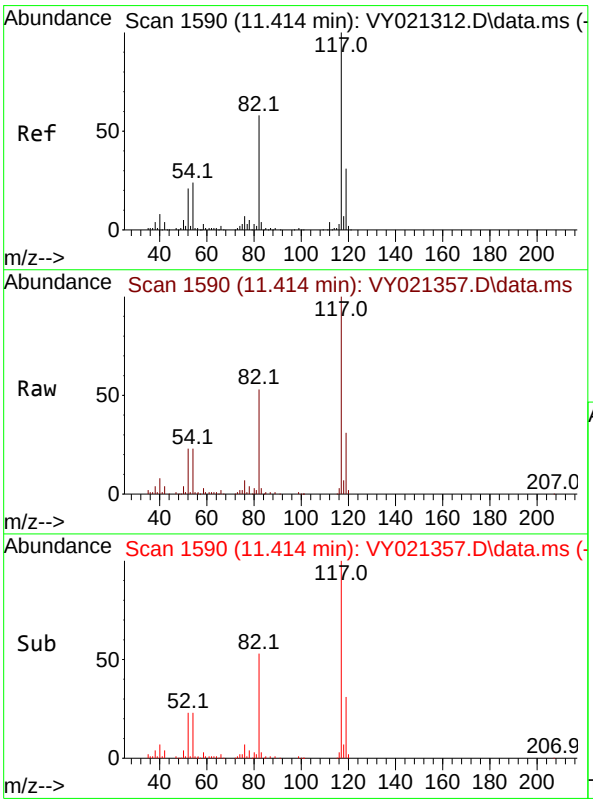


#62
4-Bromofluorobenzene
Concen: 25.846 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion: 95 Resp: 35465

Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	168.0
176	83.2	0.0	162.6

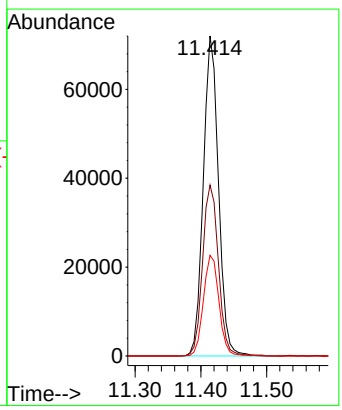


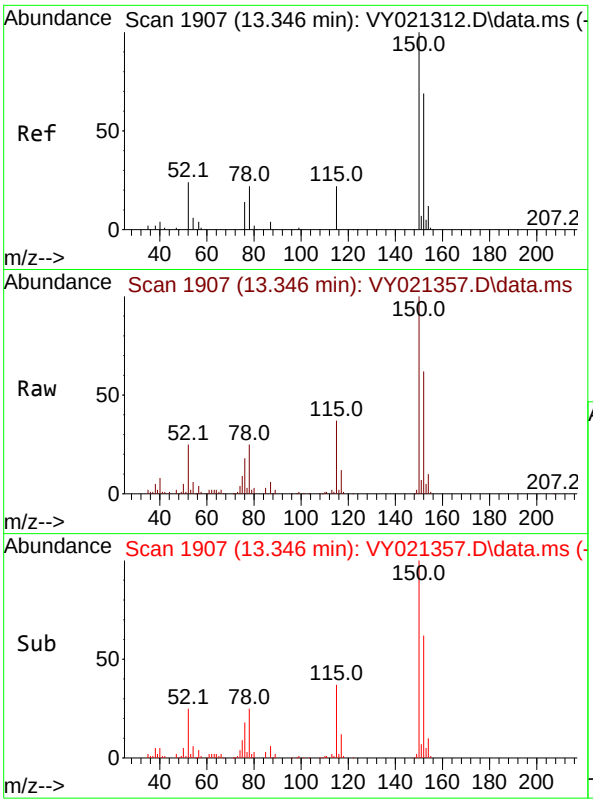


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Tgt Ion:117 Resp: 115865

Ion	Ratio	Lower	Upper
117	100		
82	53.4	46.2	69.4
119	31.5	24.9	37.3



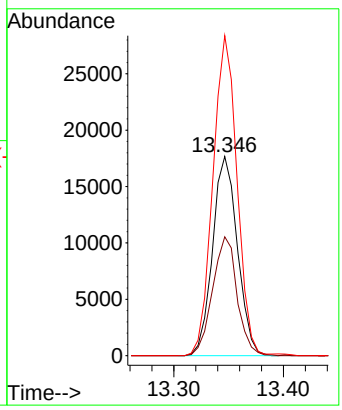


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021357.D
Acq: 27 Feb 2025 14:48

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Tgt Ion:152 Resp: 27807

Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.3	88.0
150	156.4	0.0	347.4



Sample Results: **VY021357.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021357.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	24	rVB	42677	61208	11.72%	2.191%
2	1.952	33	38	43	rVB2	4032	5626	1.08%	0.201%
3	2.025	45	50	55	rBV2	5368	8387	1.61%	0.300%
4	2.172	66	74	84	rBV2	36626	79223	15.17%	2.836%
5	2.403	107	112	115	rBV4	4501	8561	1.64%	0.306%
6	2.684	153	158	168	rVB3	4172	8646	1.66%	0.309%
7	2.830	178	182	189	rVB3	6569	14055	2.69%	0.503%
8	3.092	218	225	232	rVB6	6219	14806	2.84%	0.530%
9	3.190	232	241	255	rVB4	8511	28480	5.45%	1.019%
10	3.519	287	295	304	rVB6	2656	7189	1.38%	0.257%
11	4.232	404	412	420	rVB3	3544	8613	1.65%	0.308%
12	4.604	463	473	480	rBV3	7131	23801	4.56%	0.852%
13	4.708	480	490	507	rVB2	20475	75397	14.44%	2.699%
14	5.640	634	643	650	rBV7	2405	7899	1.51%	0.283%
15	7.634	959	970	976	rBV	86022	204047	39.08%	7.304%
16	7.707	976	982	994	rVB	126697	291244	55.78%	10.425%
17	8.061	1032	1040	1052	rBV	78794	182237	34.91%	6.523%
18	8.616	1122	1131	1147	rBV	191641	393162	75.31%	14.074%
19	10.103	1368	1375	1383	rBV	298382	522091	100.00%	18.689%
20	10.158	1383	1384	1391	rVB3	3193	5623	1.08%	0.201%
21	11.414	1583	1590	1600	rBV	227776	370476	70.96%	13.261%
22	12.408	1747	1753	1763	rBV2	134670	234116	44.84%	8.380%
23	13.346	1898	1907	1915	rBV	114295	176852	33.87%	6.331%
24	13.883	1989	1995	2003	rVB	38016	61886	11.85%	2.215%

Sum of corrected areas: 2793625

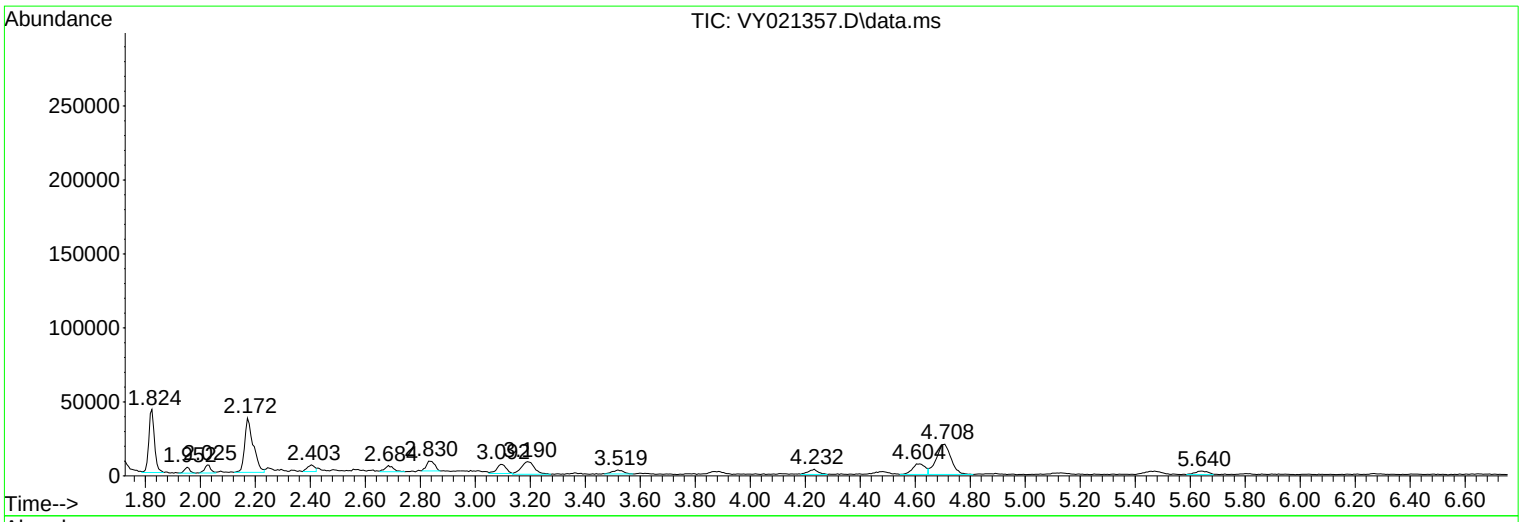
Sample Results: **VY021357.D**

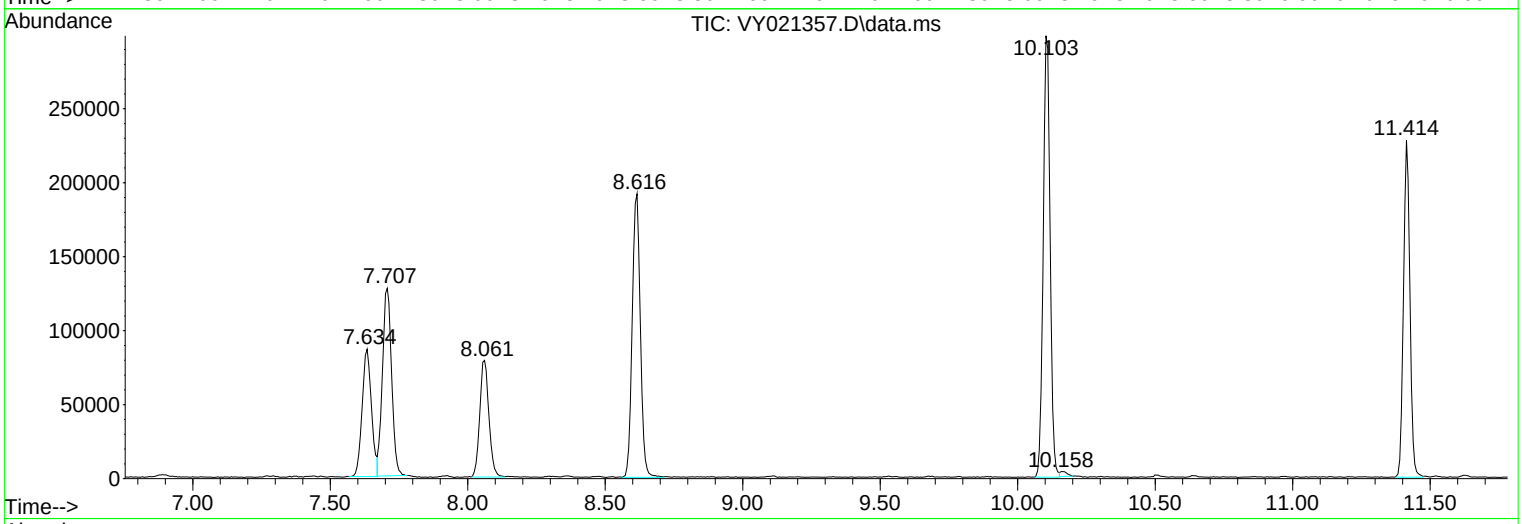
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

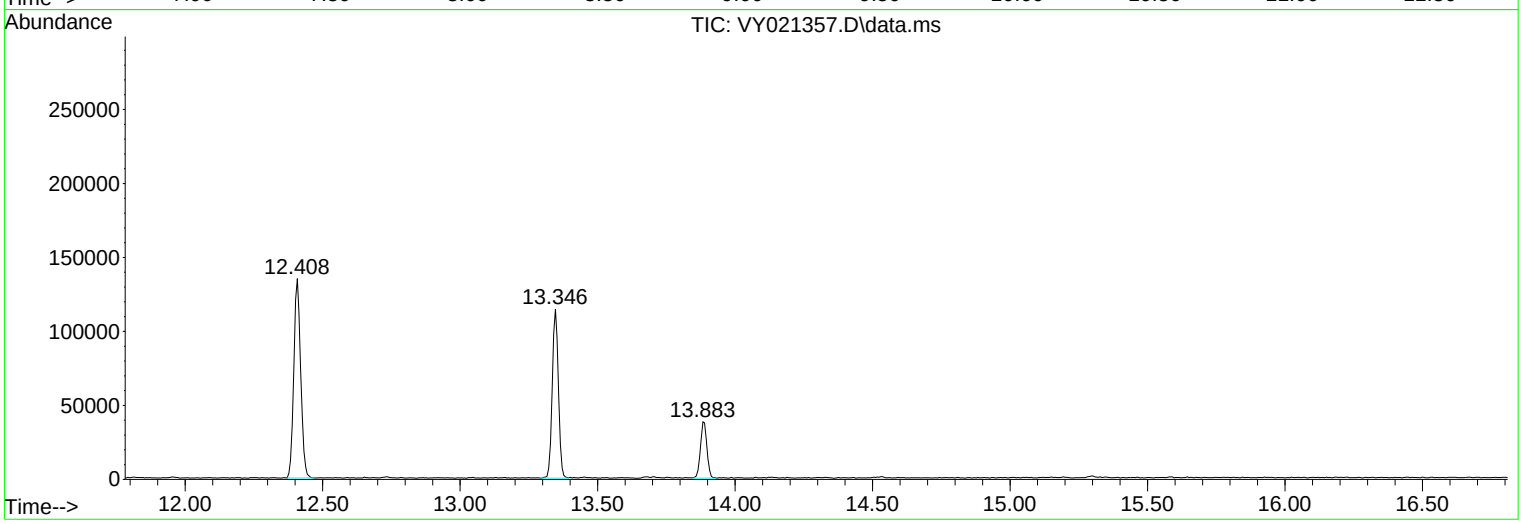
Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

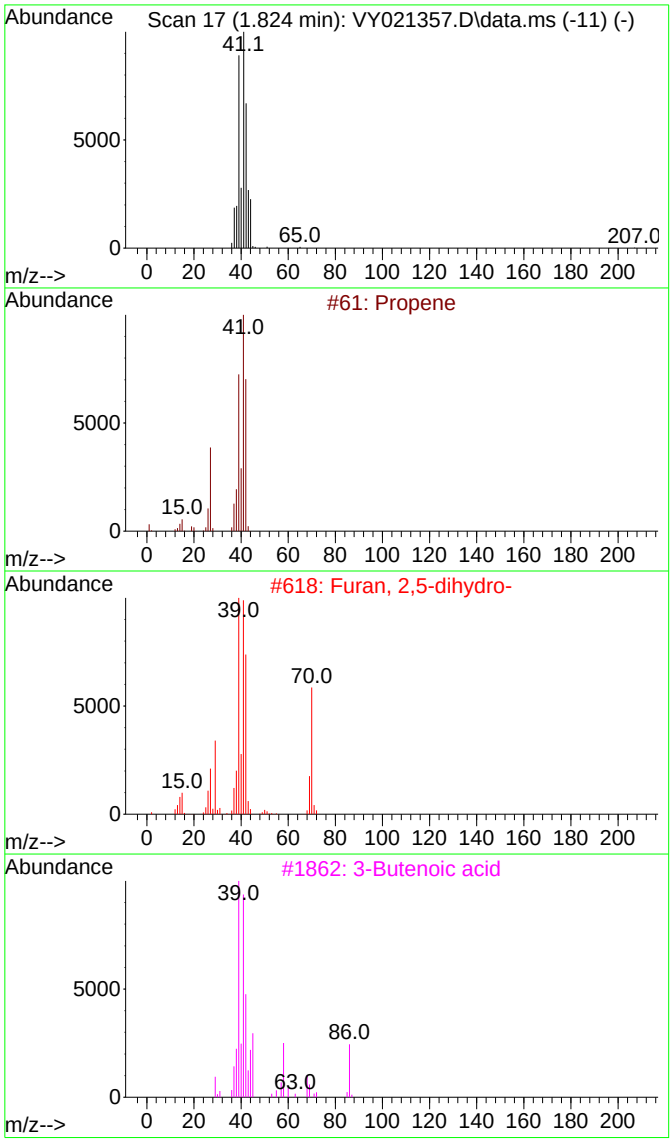
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

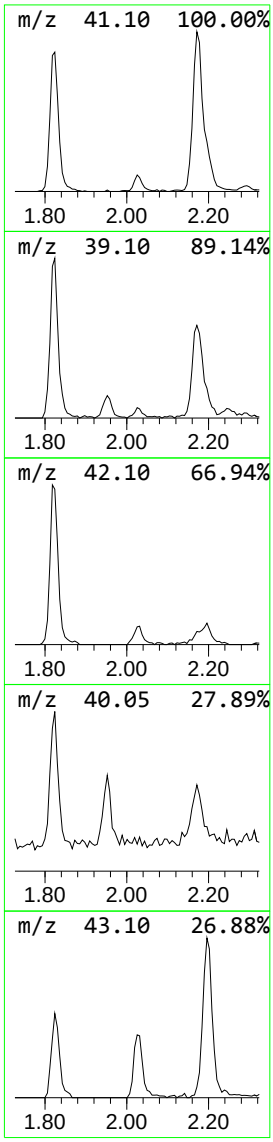
****

Peak Number 1 Propene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.824	10.51 ug/l	61208	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Furan, 2,5-dihydro-	70	C4H6O	001708-29-8	83
3	3-Butenoic acid	86	C4H6O2	000625-38-7	78
4	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	74
5	2-Butenal, (E)-	70	C4H6O	000123-73-9	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

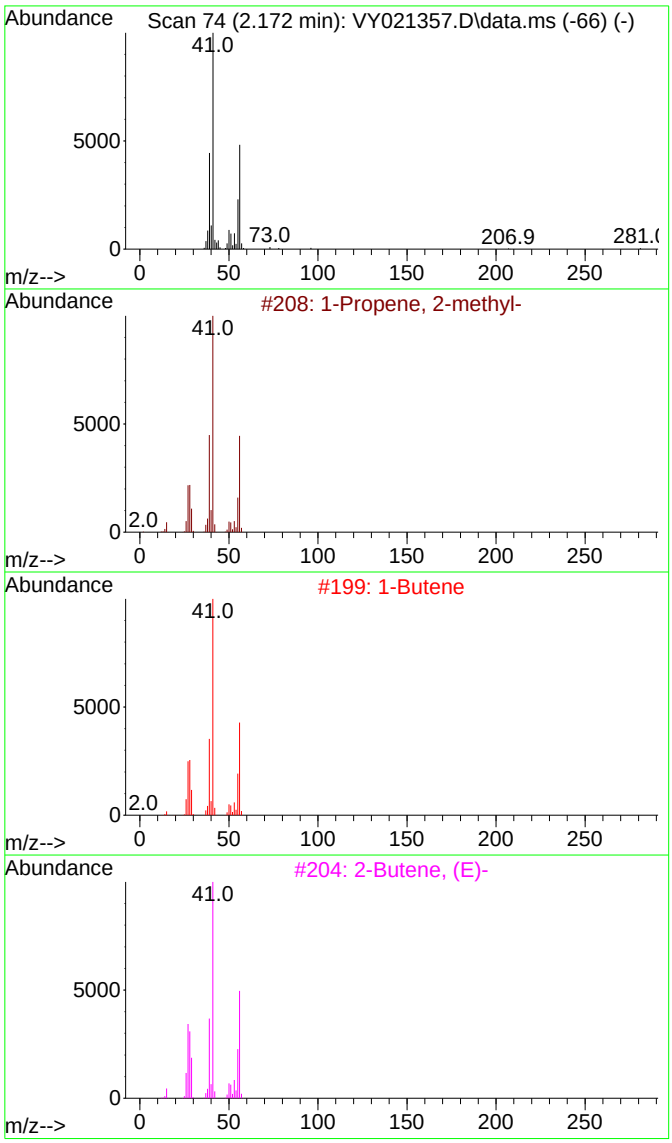
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Quant Title : SW846 8260

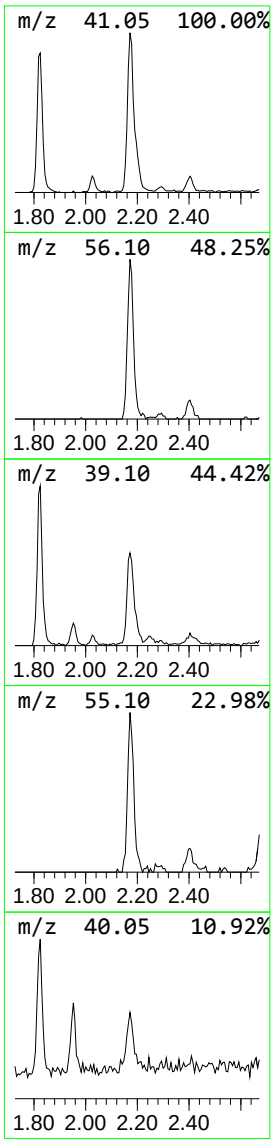
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.172	13.60 ug/l	79223	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
2	1-Butene	56	C4H8	000106-98-9	87
3	2-Butene, (E)-	56	C4H8	000624-64-6	80
4	2-Butene, (Z)-	56	C4H8	000590-18-1	80
5	2-Butene	56	C4H8	000107-01-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

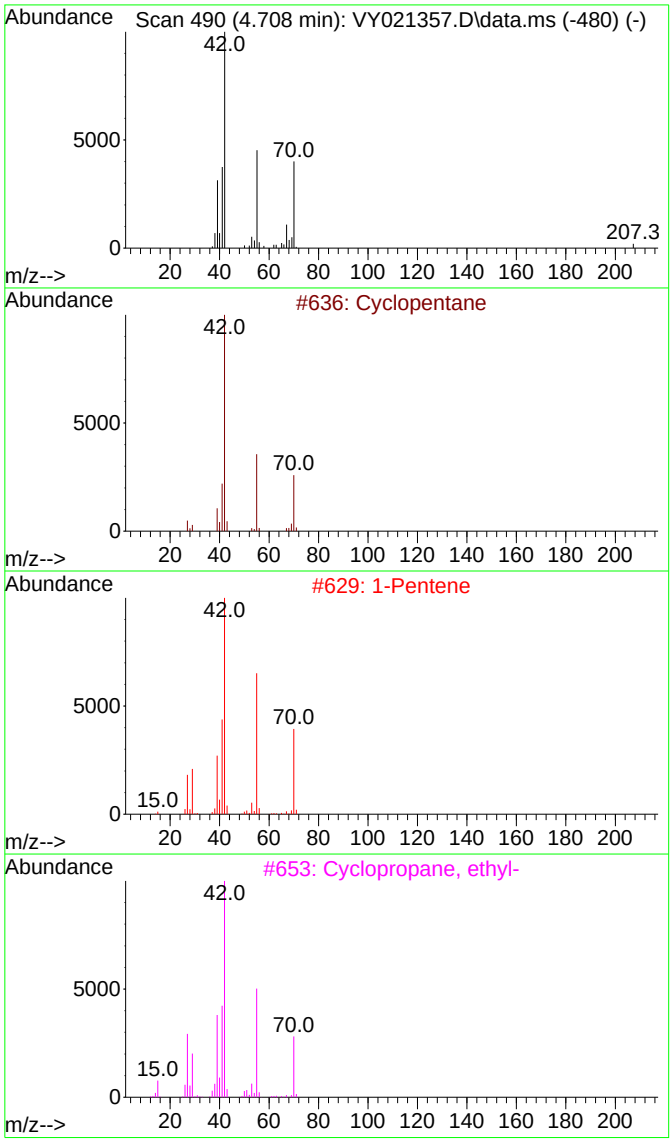
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

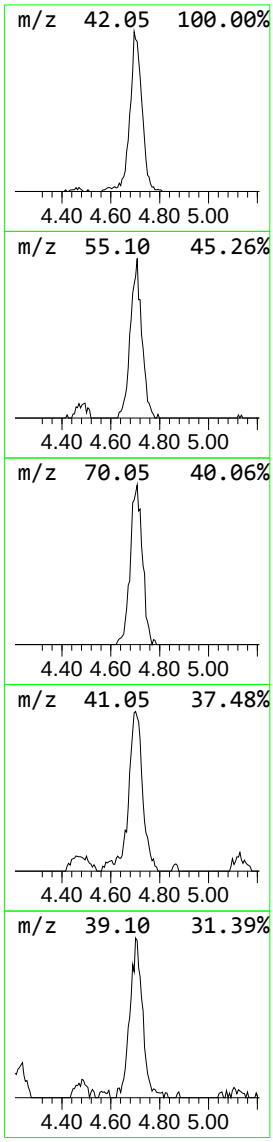
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Peak Number 3 Cyclopentane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.708	12.94 ug/l	75397	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	72
2	1-Pentene	70	C5H10	000109-67-1	59
3	Cyclopropane, ethyl-	70	C5H10	001191-96-4	59
4	2(3H)-Furanone, dihydro-3,5-dime...	114	C6H10O2	005145-01-7	17
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

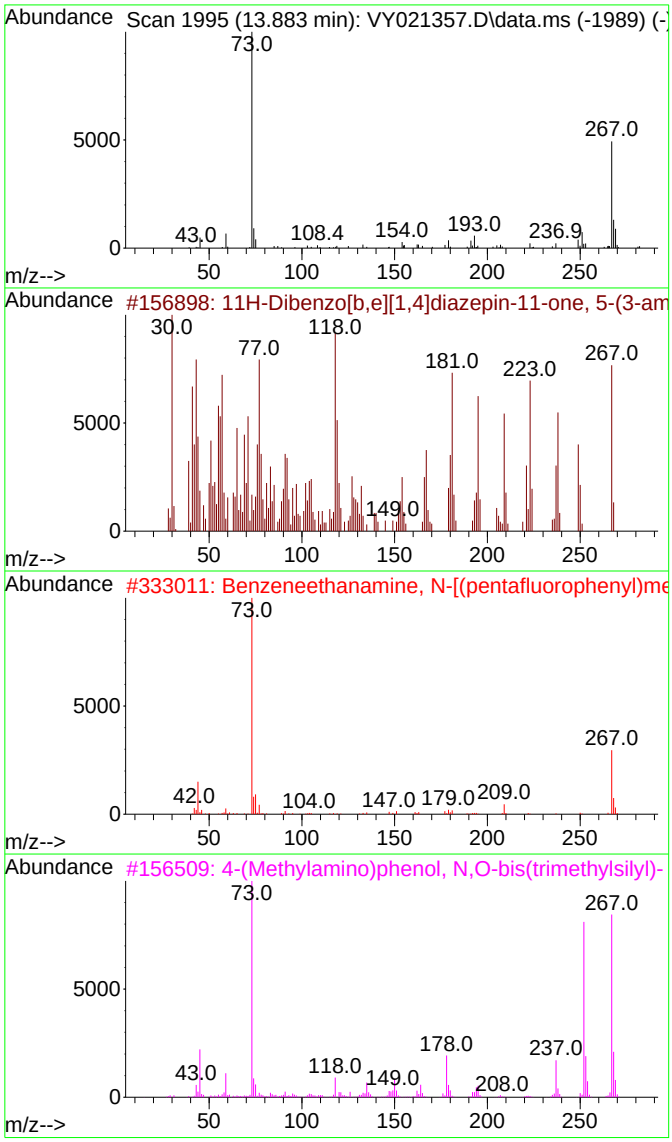
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Quant Title : SW846 8260

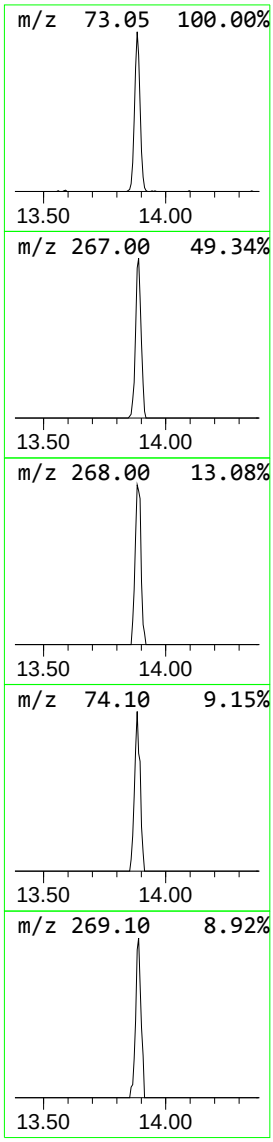
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.883	17.50 ug/l	61886	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	53
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	50
3	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	50
4	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	45
5	9-Acridinol, trimethylsilyl ether	267	C16H17NOSi	1000463-65-5	45





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021357.D
Acq On : 27 Feb 2025 14:48
Operator : SY/MD
Sample : Q1422-01
Misc : 4.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Propene	1.824	10.5	ug/l	61208	1	7.707	291244	50.0
1-Propene, 2-me...	2.172	13.6	ug/l	79223	1	7.707	291244	50.0
Cyclopentane	4.708	12.9	ug/l	75397	1	7.707	291244	50.0
11H-Dibenzo[b,e...	13.883	17.5	ug/l	61886	4	13.346	176852	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021380.D
Acq On : 28 Feb 2025 13:20
Operator : SY/MD
Sample : Q1422-01RE
Misc : 3.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Quant Time: Feb 28 22:20:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	101641	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	171514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	143270	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	51974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	55863	48.449	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.900%			
35) Dibromofluoromethane	7.634	113	58329	51.873	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.740%			
50) Toluene-d8	10.103	98	201390	46.342	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.680%			
62) 4-Bromofluorobenzene	12.408	95	53808	36.791	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 73.580%			

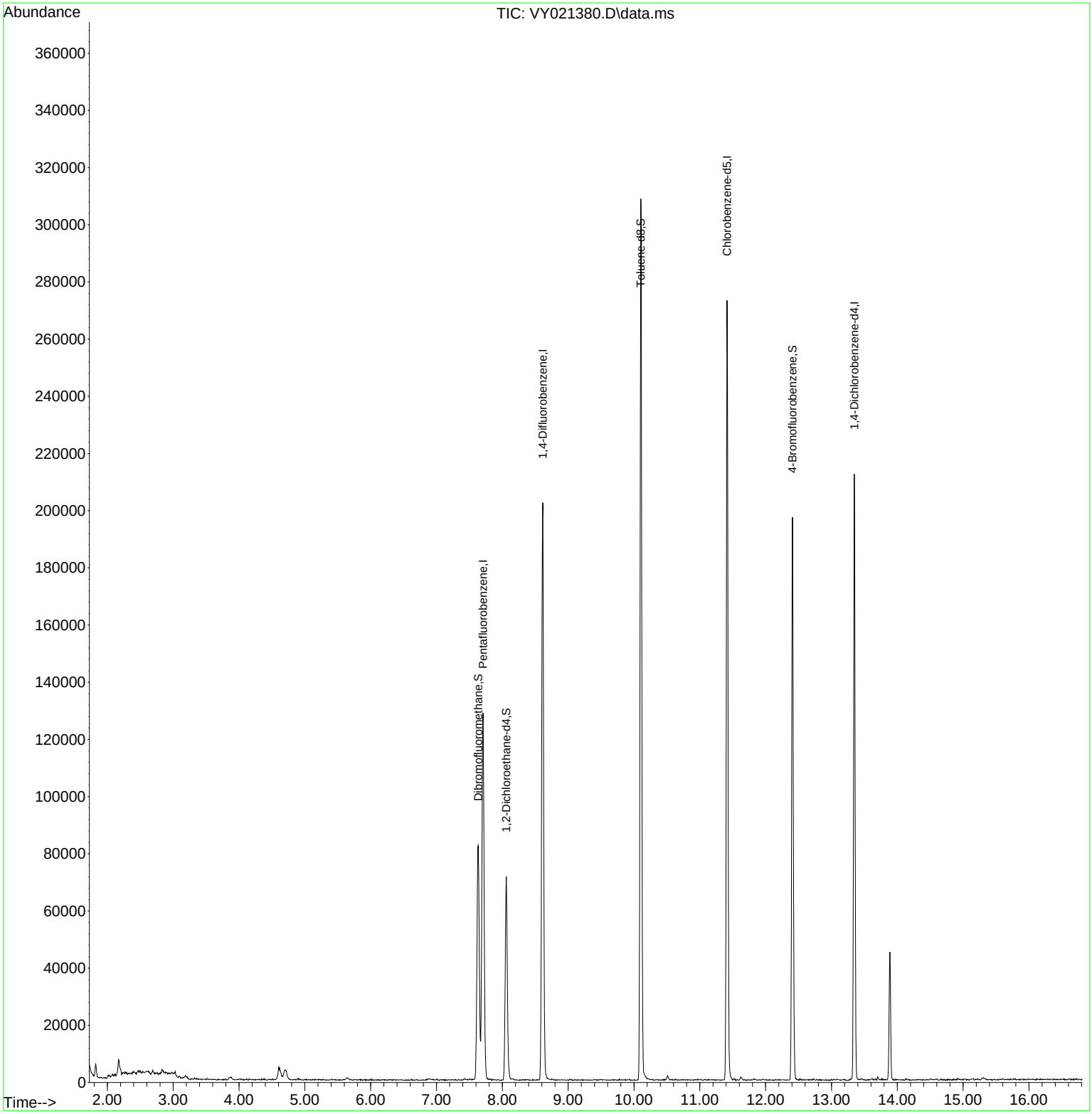
Target Compounds Qvalue

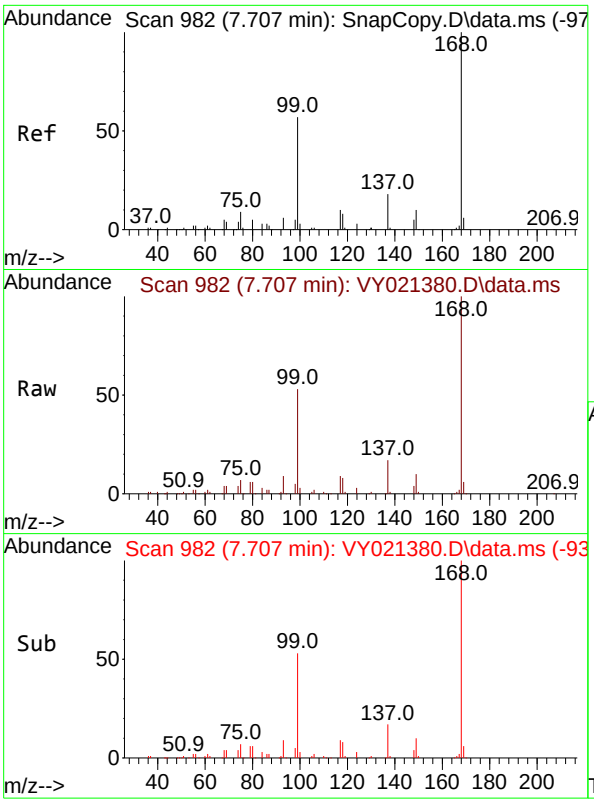
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021380.D
Acq On : 28 Feb 2025 13:20
Operator : SY/MD
Sample : Q1422-01RE
Misc : 3.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Quant Time: Feb 28 22:20:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



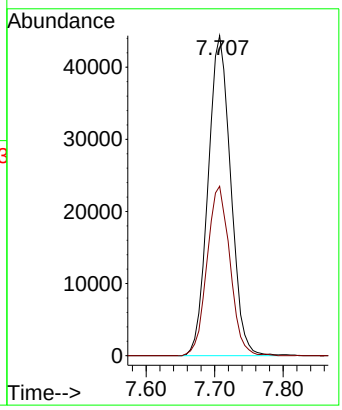


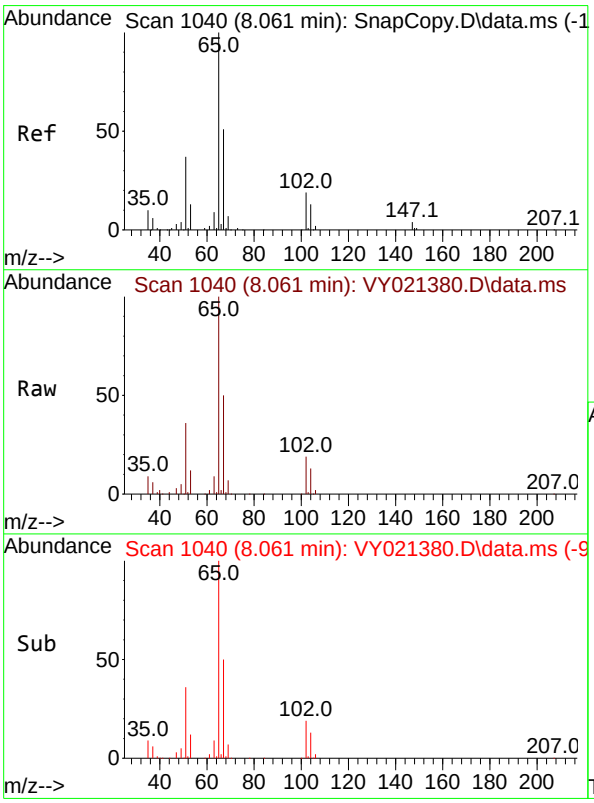
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:168 Resp: 101641

Ion	Ratio	Lower	Upper
168	100		
99	52.9	47.1	70.7

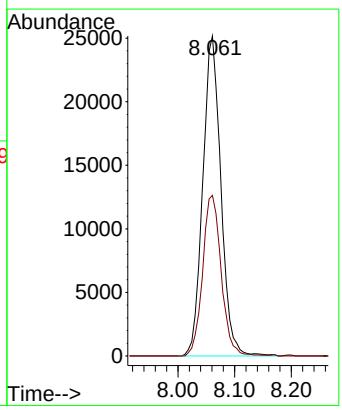


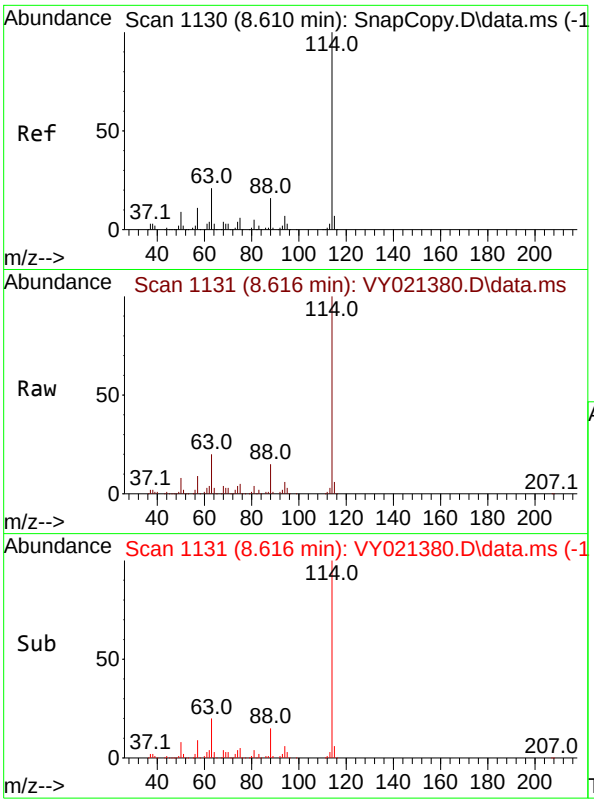


#33
1,2-Dichloroethane-d4
Concen: 48.449 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion: 65 Resp: 55863

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.6



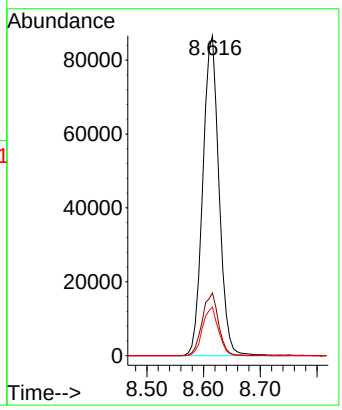


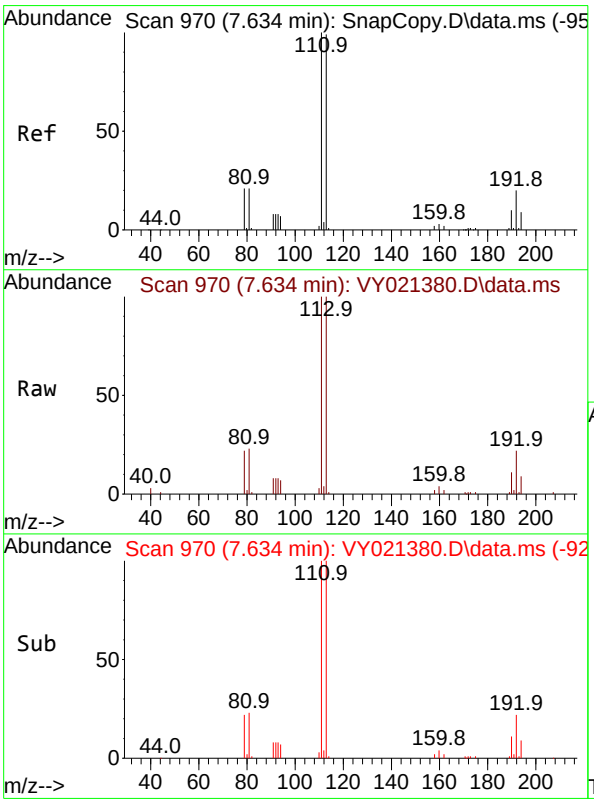
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:114 Resp: 171514

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.2
88	15.2	0.0	29.8

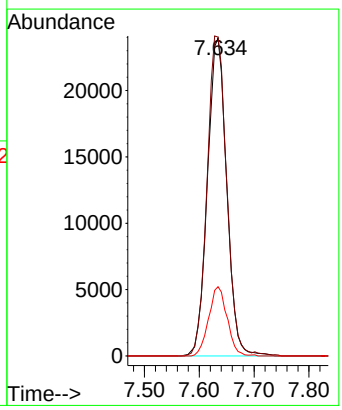


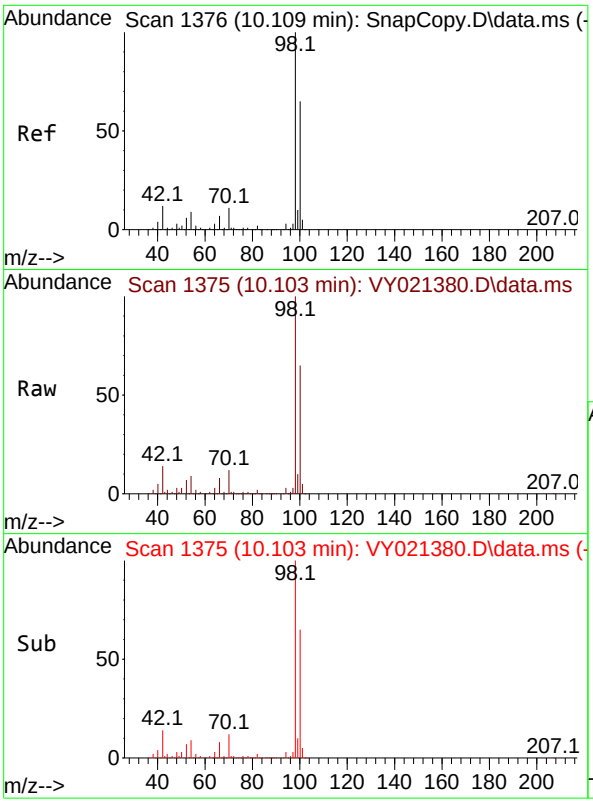


#35
Dibromofluoromethane
Concen: 51.873 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion:113 Resp: 58329

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.6
192	20.9	15.8	23.8



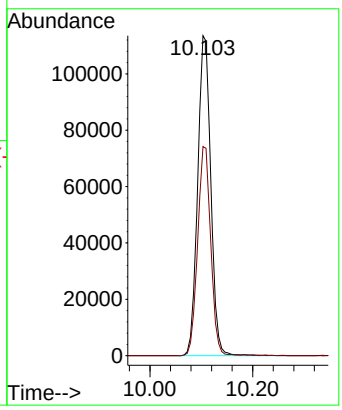


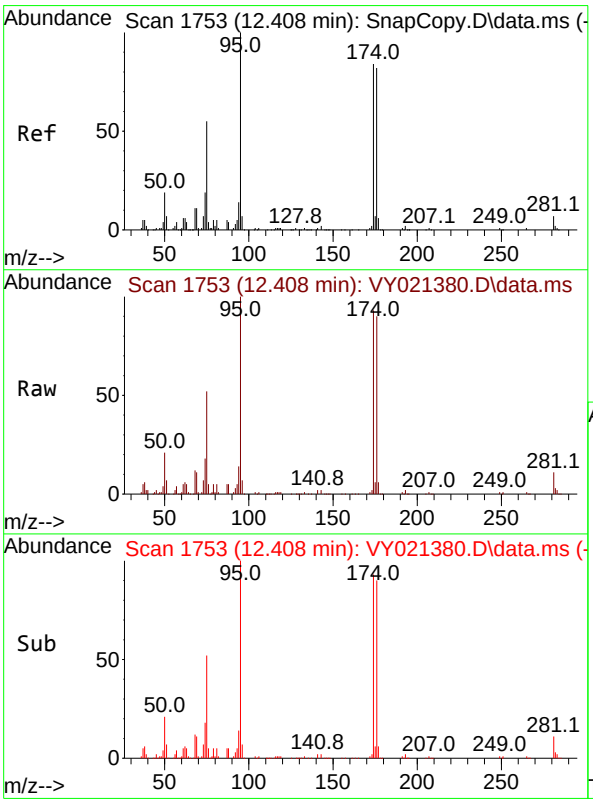
#50
Toluene-d8
Concen: 46.342 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion: 98 Resp: 201390

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

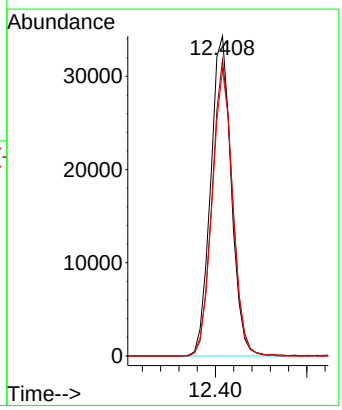


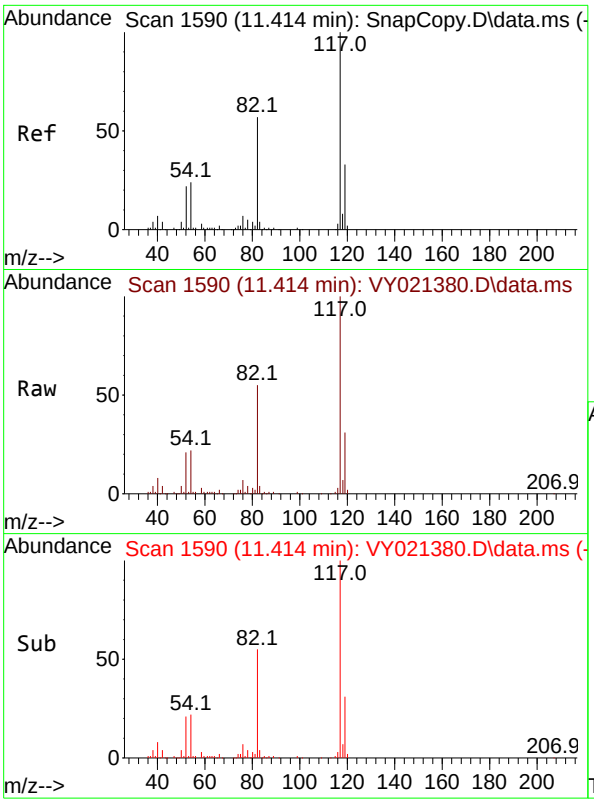


#62
4-Bromofluorobenzene
Concen: 36.791 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion: 95 Resp: 53808

Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	168.0
176	89.2	0.0	162.6



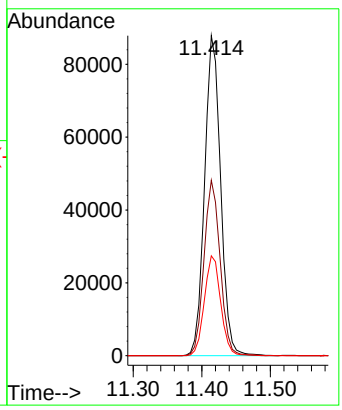


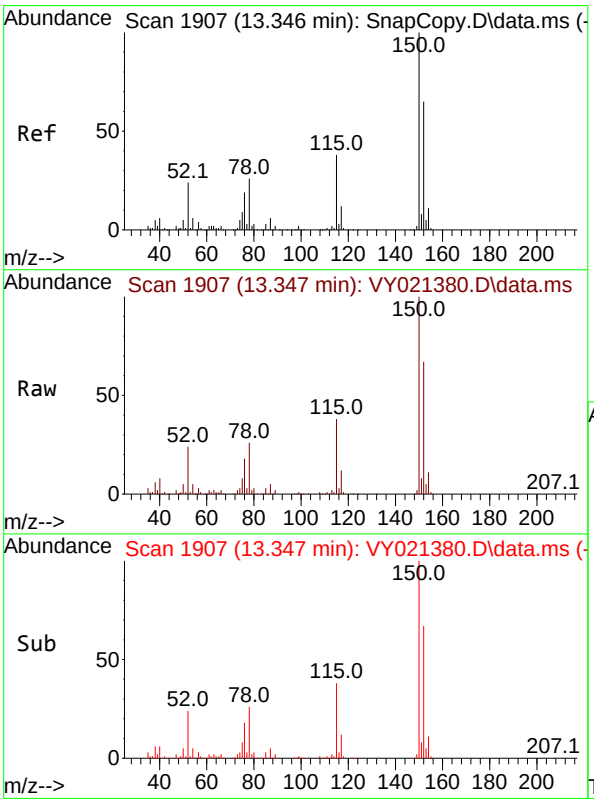
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB01RE

Tgt Ion:117 Resp: 143270

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.2	69.4
119	31.2	24.9	37.3

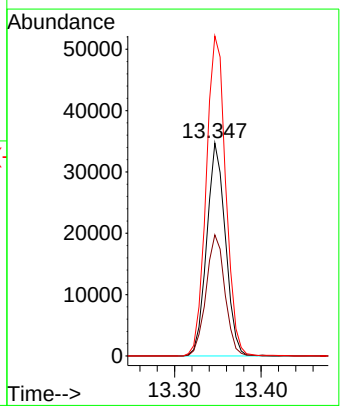




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021380.D
Acq: 28 Feb 2025 13:20

Tgt Ion:152 Resp: 51974

Ion	Ratio	Lower	Upper
152	100		
115	57.4	29.3	88.0
150	157.0	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Time: Feb 28 22:20:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

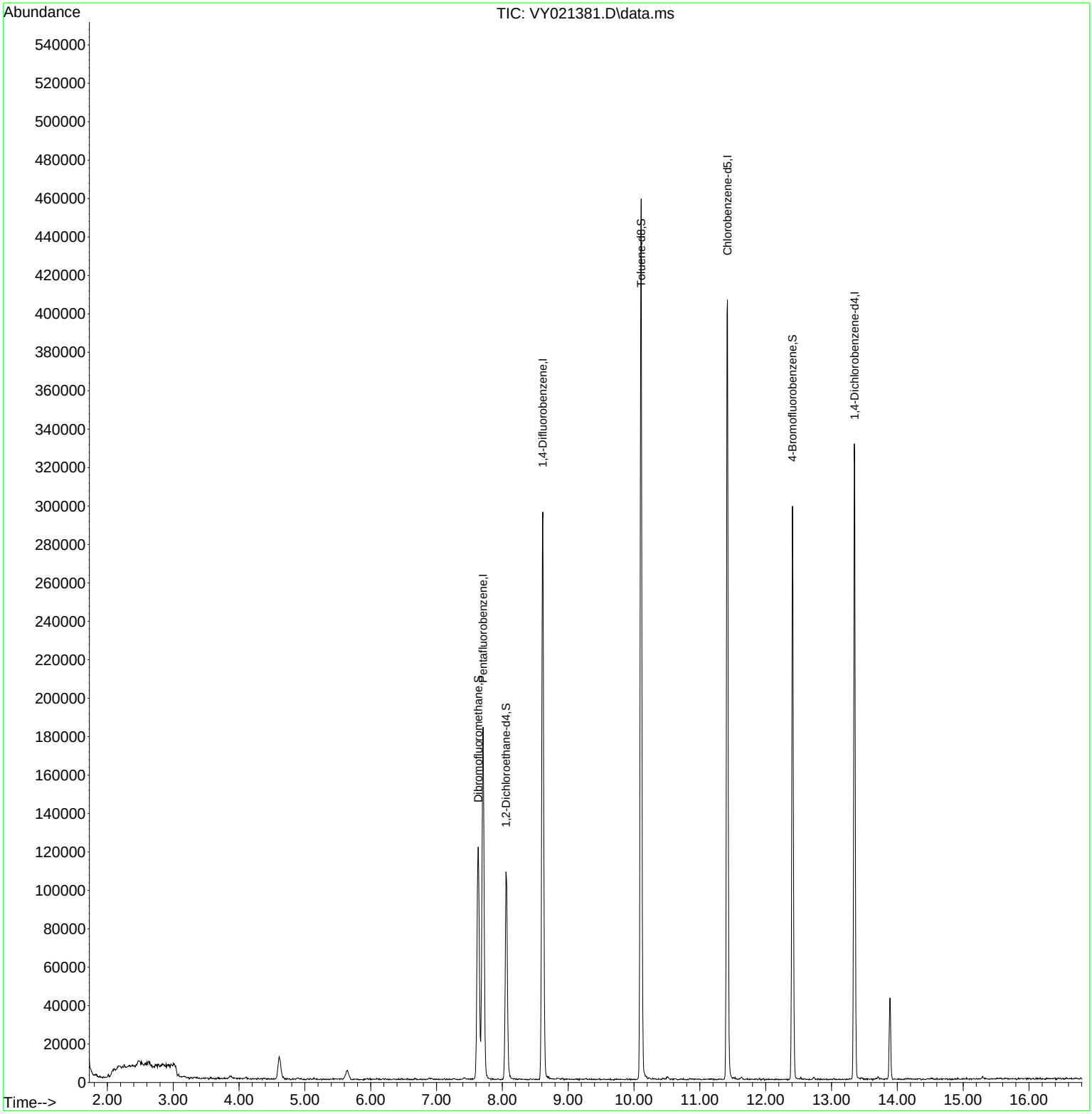
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	137587	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	246433	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	216935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	82177	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	87320	55.946	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.900%			
35) Dibromofluoromethane	7.634	113	87068	53.891	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.780%			
50) Toluene-d8	10.109	98	296249	47.445	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.900%			
62) 4-Bromofluorobenzene	12.407	95	86661	41.240	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 82.480%			
Target Compounds						Qvalue

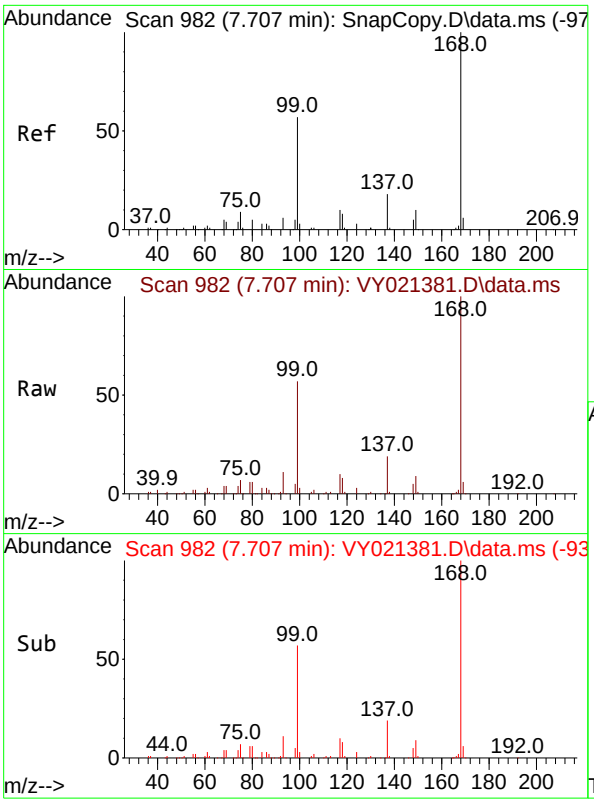
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Time: Feb 28 22:20:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



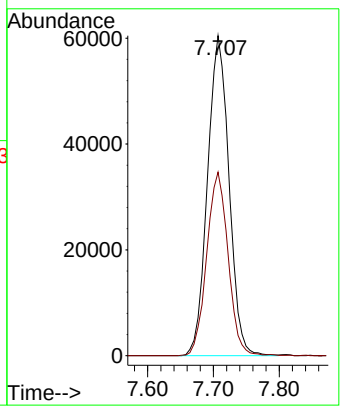


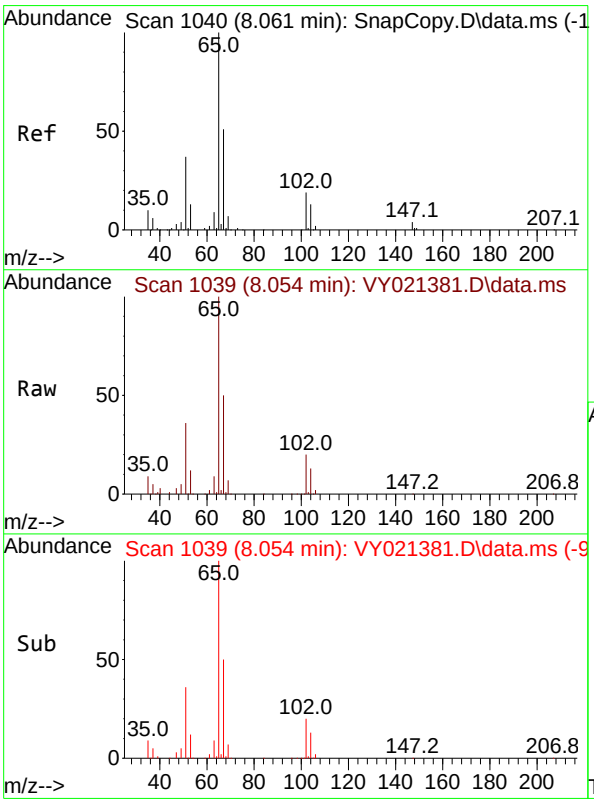
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:168 Resp: 137587

Ion	Ratio	Lower	Upper
168	100		
99	57.4	47.1	70.7

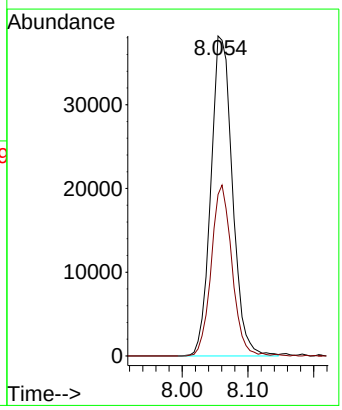


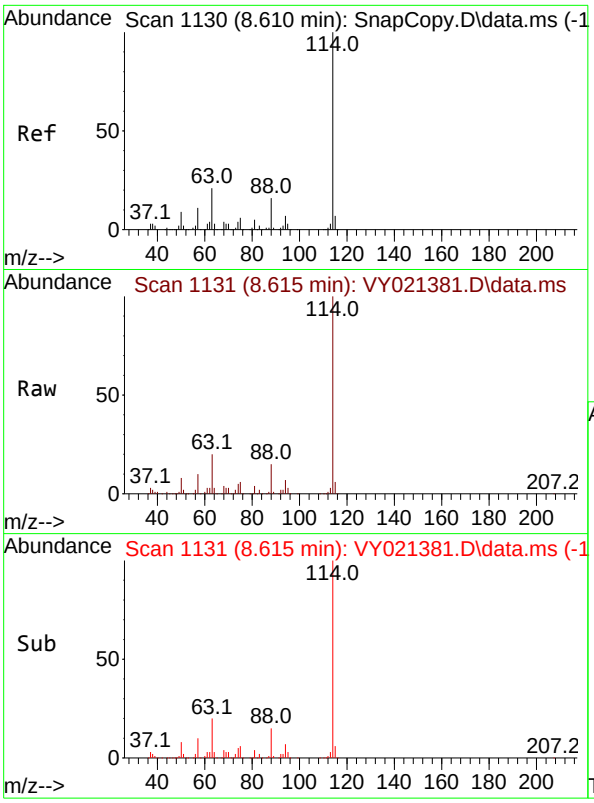


#33
1,2-Dichloroethane-d4
Concen: 55.946 ug/l
RT: 8.054 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion: 65 Resp: 87320

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.6



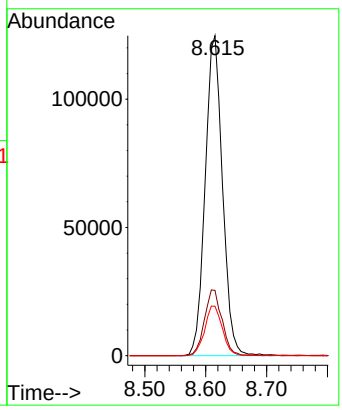


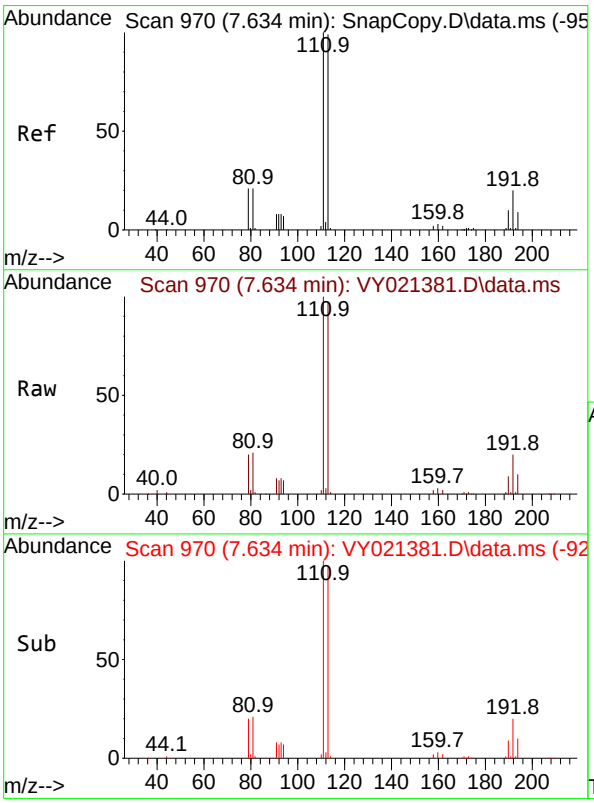
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:114 Resp: 246433

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.2
88	15.4	0.0	29.8

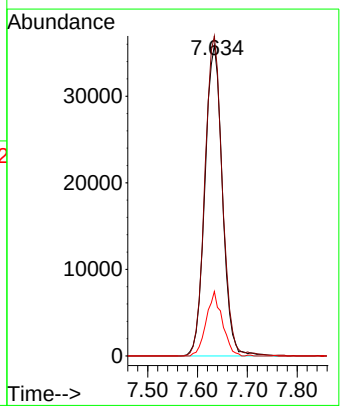


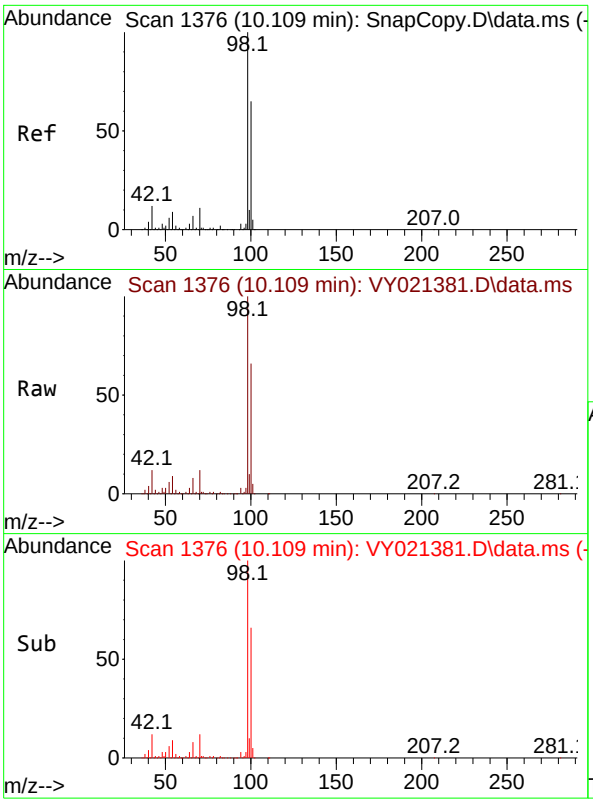


#35
Dibromofluoromethane
Concen: 53.891 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion:113 Resp: 87068

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.0	121.6
192	19.1	15.8	23.8



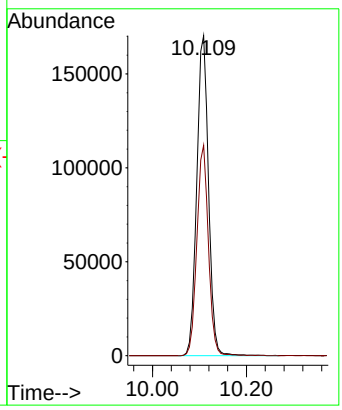


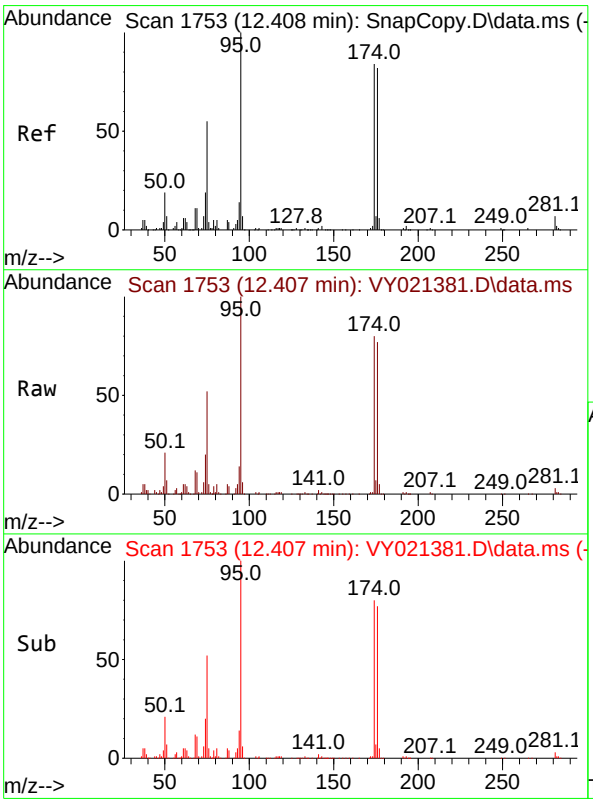
#50
Toluene-d8
Concen: 47.445 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion: 98 Resp: 296249

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.4	78.6

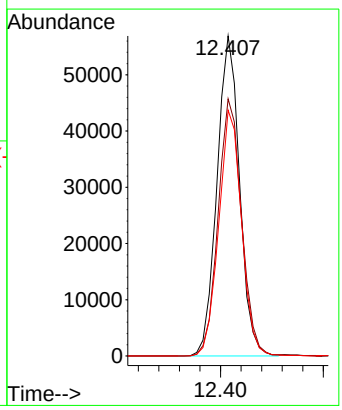


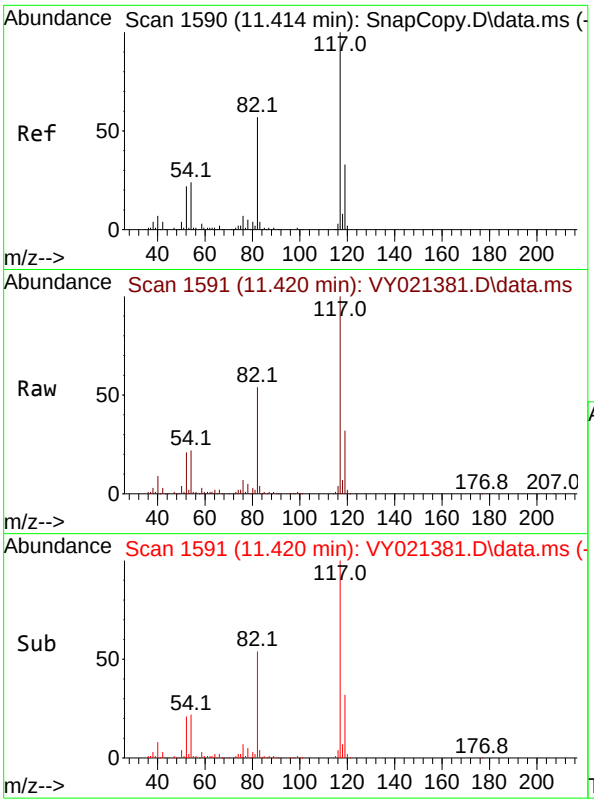


#62
4-Bromofluorobenzene
Concen: 41.240 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion: 95 Resp: 86661

Ion	Ratio	Lower	Upper
95	100		
174	83.3	0.0	168.0
176	77.6	0.0	162.6



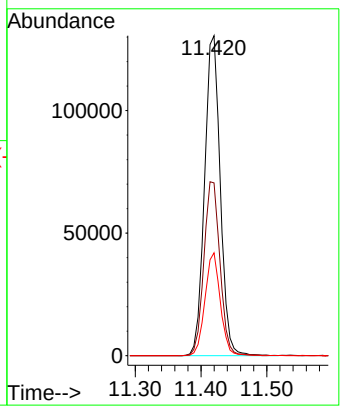


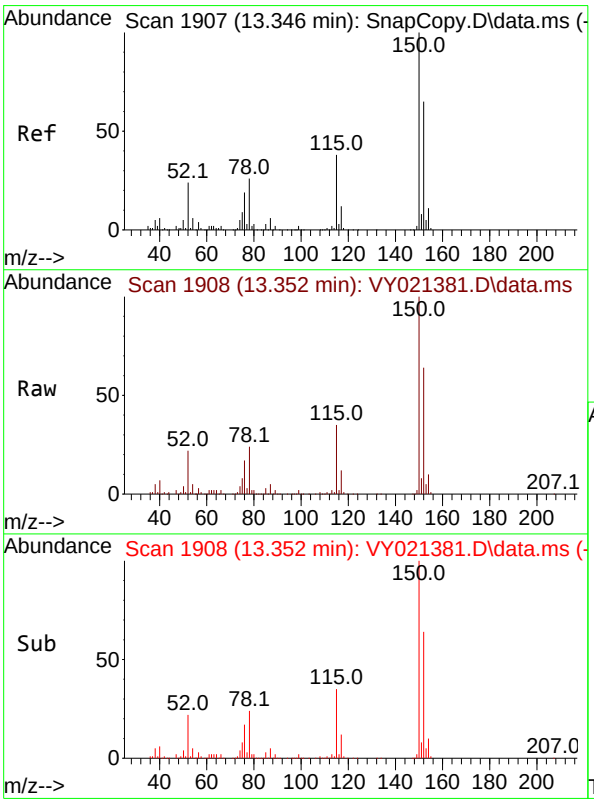
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Tgt Ion:117 Resp: 216935

Ion	Ratio	Lower	Upper
117	100		
82	54.0	46.2	69.4
119	32.2	24.9	37.3

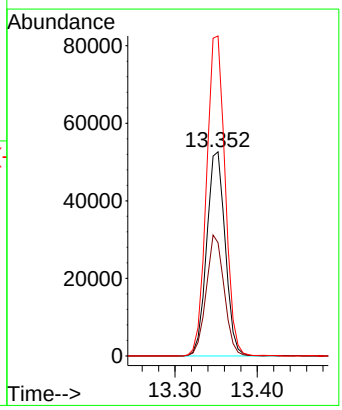




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021381.D
Acq: 28 Feb 2025 15:31

Tgt Ion:152 Resp: 82177

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.3	88.0
150	157.2	0.0	347.4



Sample Results: **VY021381.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021381.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	465	474	483	rBV3	11650	35266	4.38%	0.847%
2	5.646	632	644	654	rVB6	4938	17162	2.13%	0.412%
3	7.634	958	970	976	rBV	120861	296244	36.79%	7.118%
4	7.707	976	982	994	rVB	182741	413606	51.36%	9.938%
5	8.054	1031	1039	1053	rBV	108052	247094	30.68%	5.937%
6	8.615	1122	1131	1142	rBV	295481	594714	73.85%	14.290%
7	10.109	1364	1376	1389	rBV	458408	805288	100.00%	19.350%
8	11.420	1583	1591	1604	rBV	405639	686233	85.22%	16.489%
9	12.407	1744	1753	1762	rBV	298576	479579	59.55%	11.523%
10	13.346	1900	1907	1916	rBV	330689	518132	64.34%	12.450%
11	13.889	1989	1996	2003	rVB2	42557	68454	8.50%	1.645%

Sum of corrected areas: 4161772

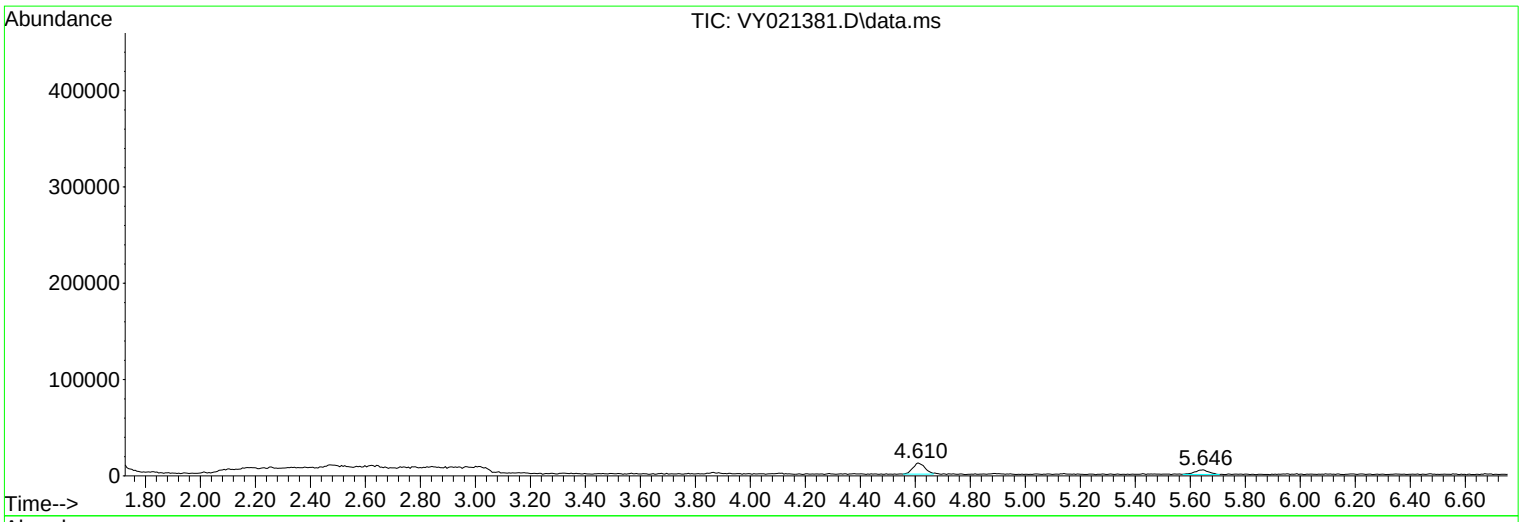
Sample Results: **VY021381.D**

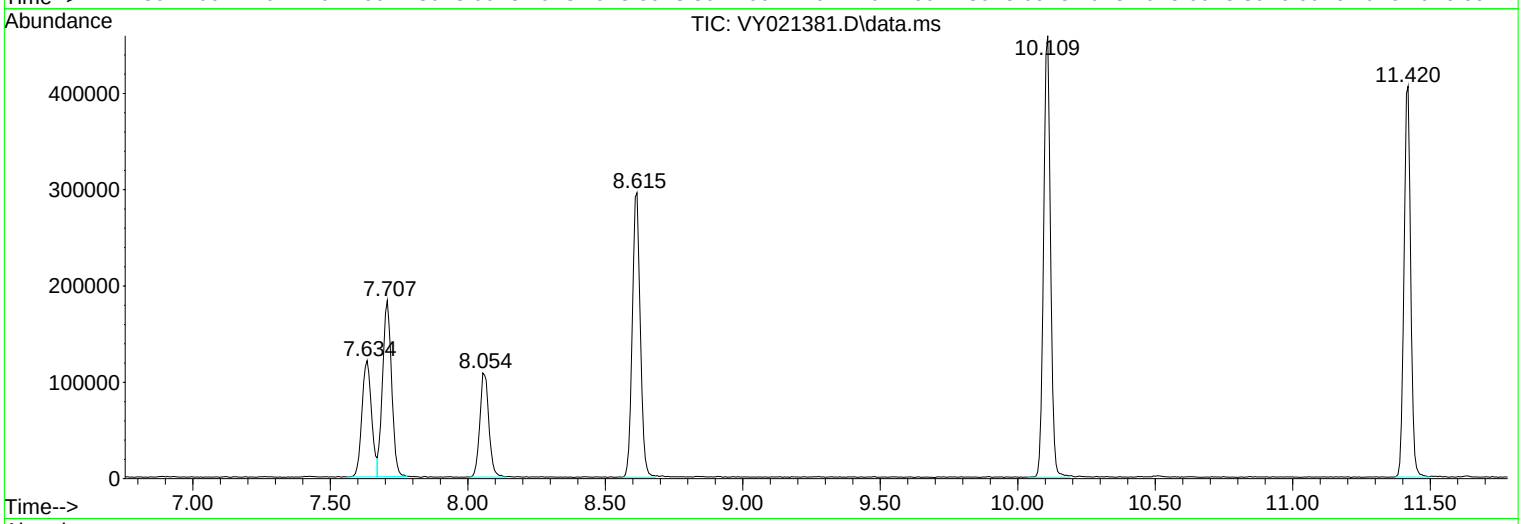
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

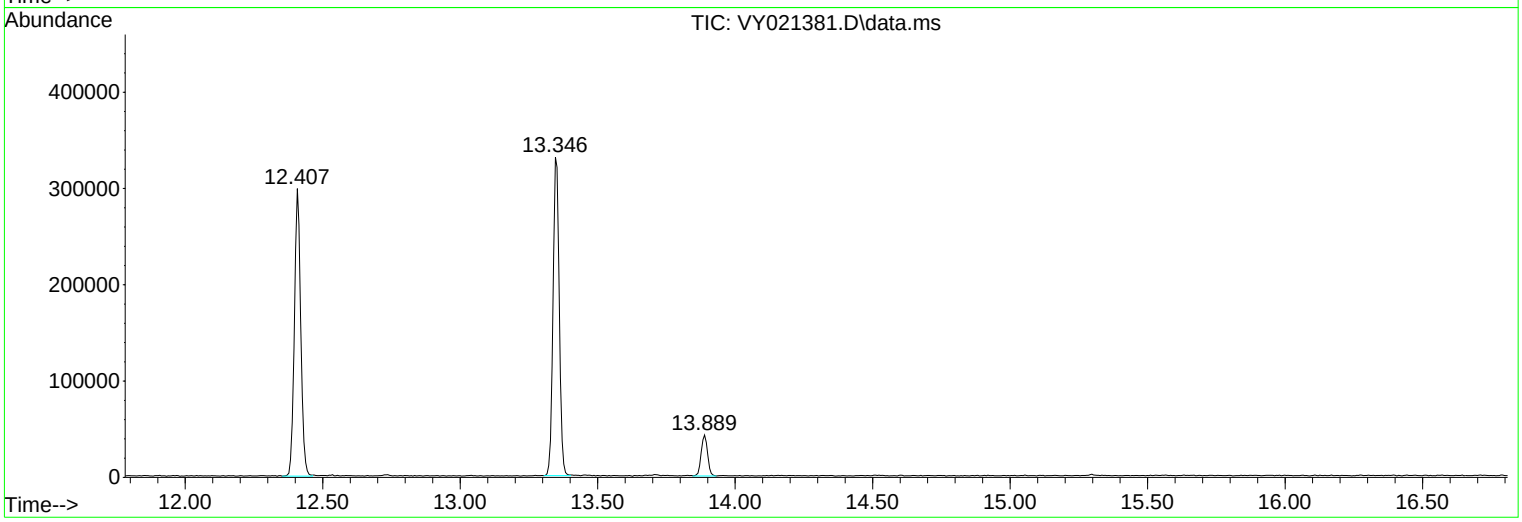
Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

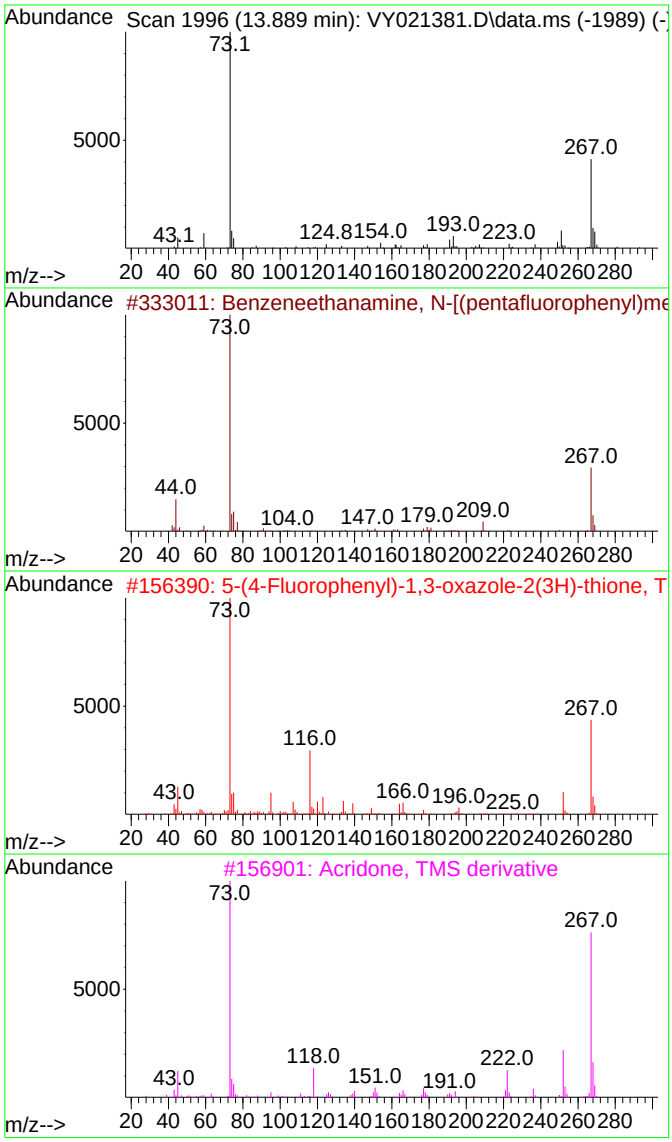
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

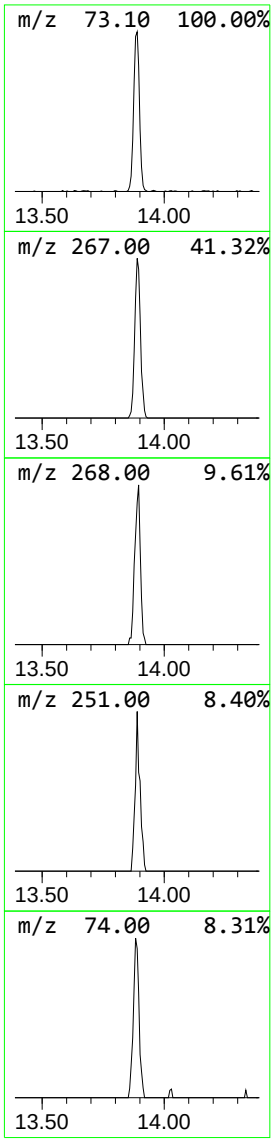
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzeneethanamine, N-[(pent... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	6.61 ug/l	68454	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	64
2	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	64
3	Acridone, TMS derivative	267	C16H17NOSi	1000478-16-0	59
4	Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	50
5	4-(Methylamino)phenol, N,O-bis(t...	267	C13H25NOSi2	1000471-13-0	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021381.D
Acq On : 28 Feb 2025 15:31
Operator : SY/MD
Sample : Q1422-02
Misc : 8.94g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-154-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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
Benzeneethanami...	13.889	6.6	ug/l	68454	4	13.352	518132	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	140233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	264026	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	255103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	107368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	94225	59.230	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.460%			
35) Dibromofluoromethane	7.634	113	90944	52.539	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.080%			
50) Toluene-d8	10.109	98	322284	48.176	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.407	95	111519	49.533	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.060%			

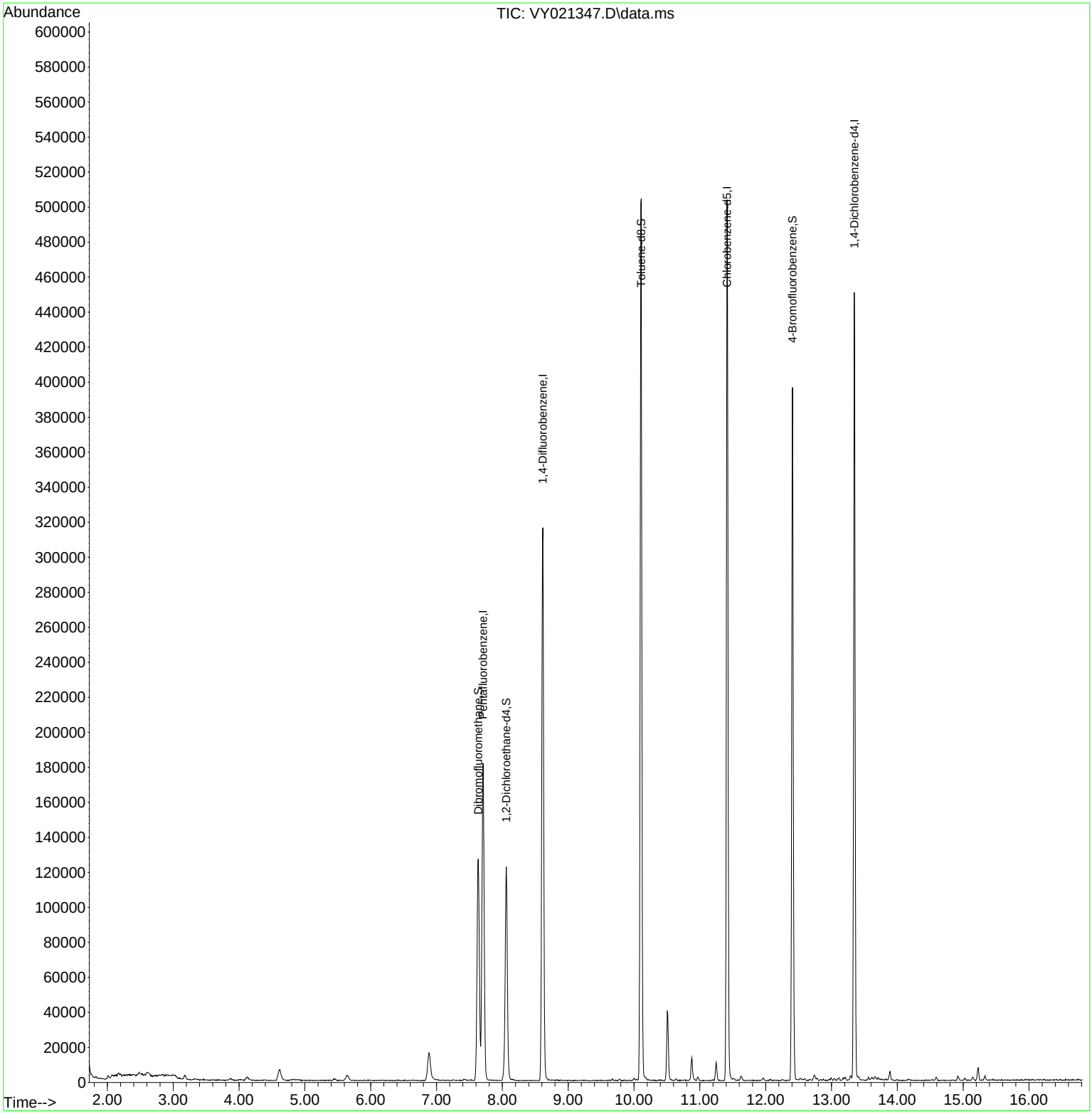
Target Compounds Qvalue

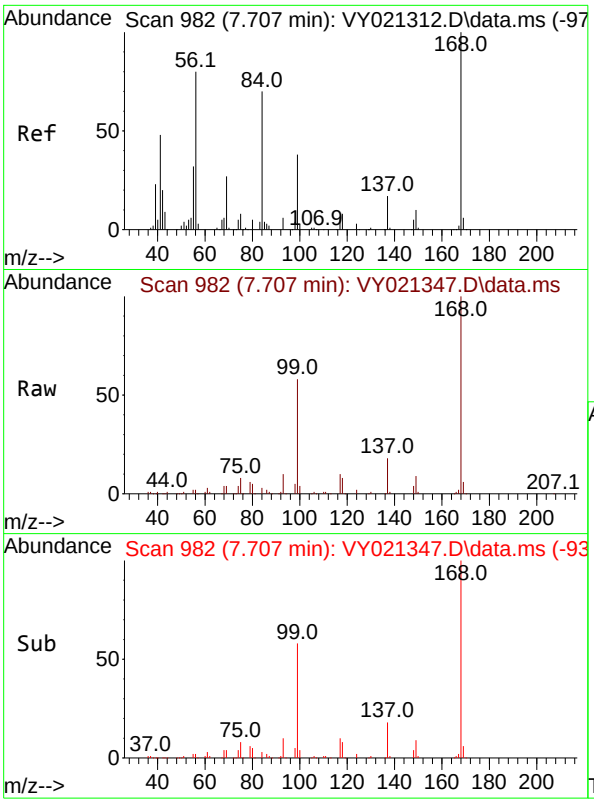
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



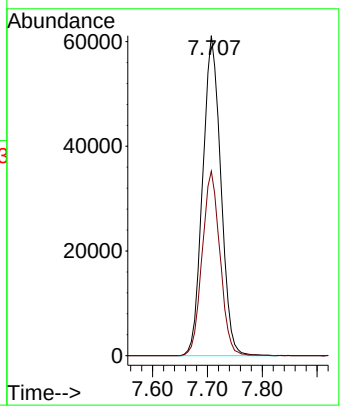


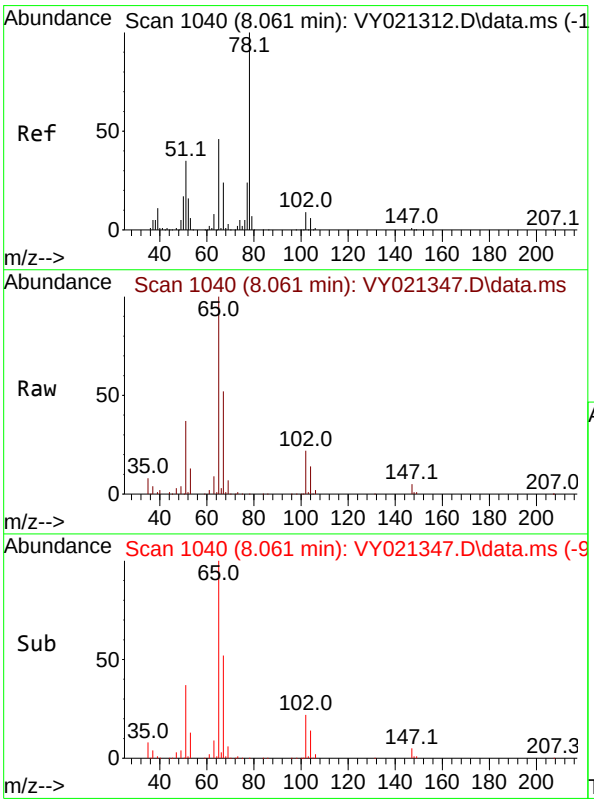
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:168 Resp: 140233

Ion	Ratio	Lower	Upper
168	100		
99	57.6	47.1	70.7

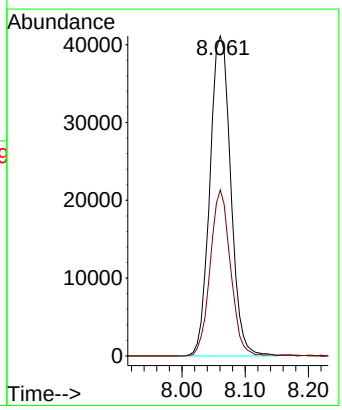


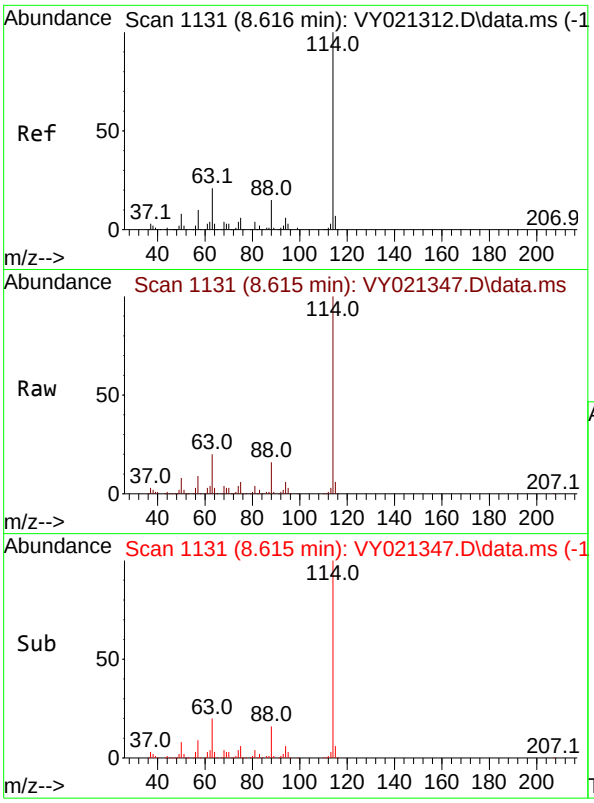


#33
1,2-Dichloroethane-d4
Concen: 59.230 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 65 Resp: 94225

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	103.6



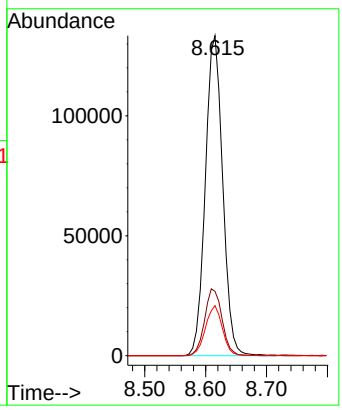


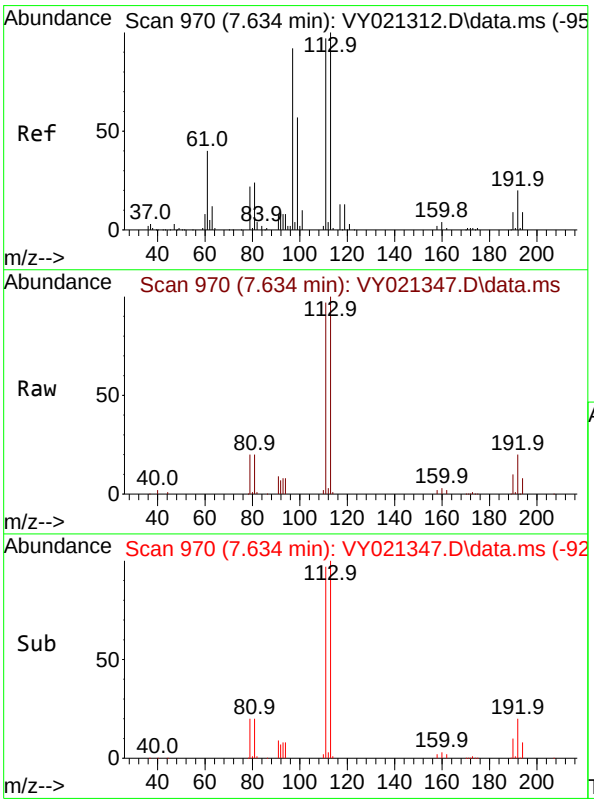
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:114 Resp: 264026

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.2
88	15.7	0.0	29.8

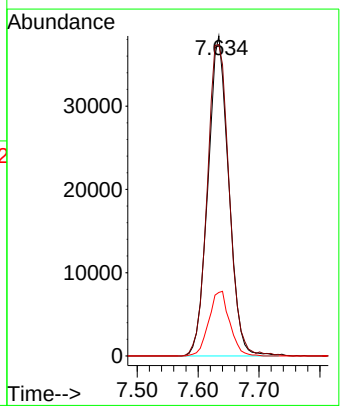


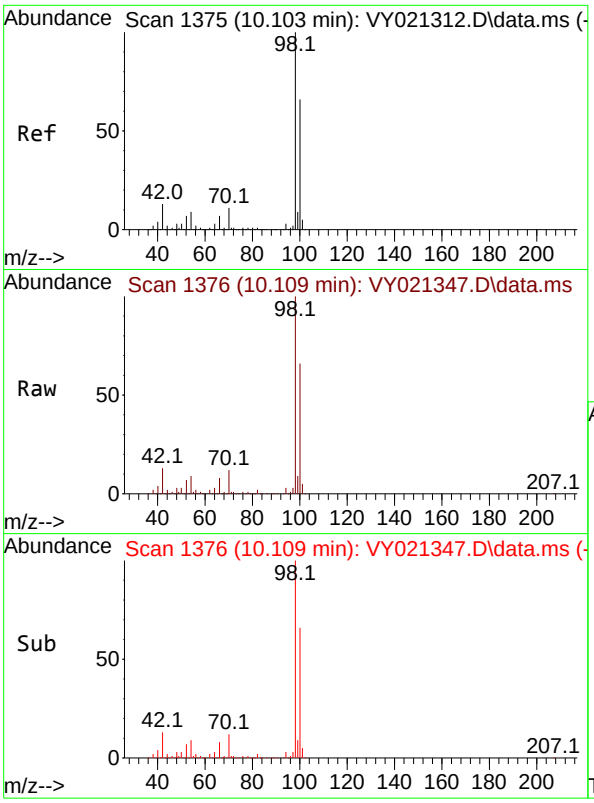


#35
Dibromofluoromethane
Concen: 52.539 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:113 Resp: 90944

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.0	121.6
192	20.3	15.8	23.8



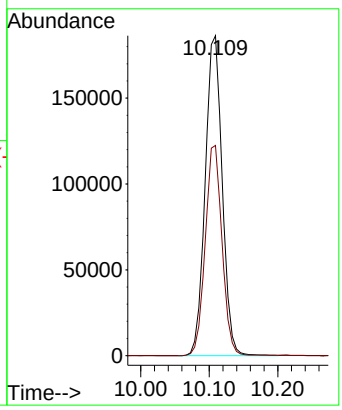


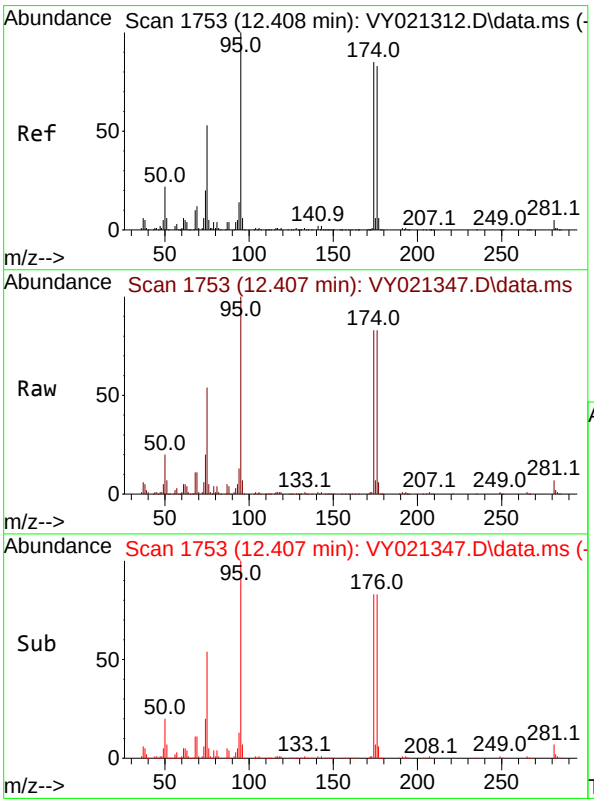
#50
Toluene-d8
Concen: 48.176 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion: 98 Resp: 322284

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

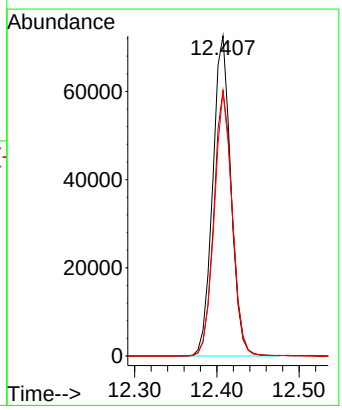


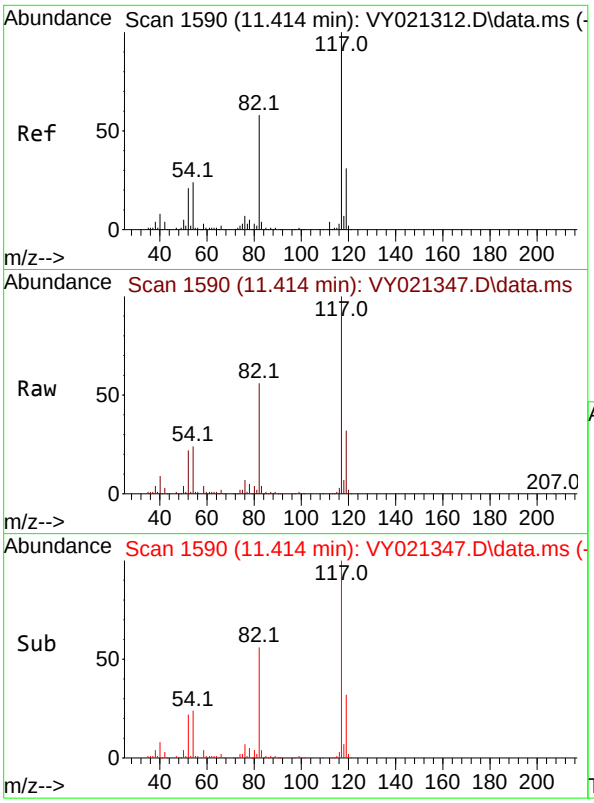


#62
4-Bromofluorobenzene
Concen: 49.533 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 95 Resp: 111519

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	168.0
176	81.7	0.0	162.6



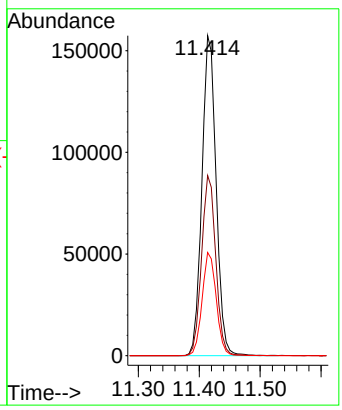


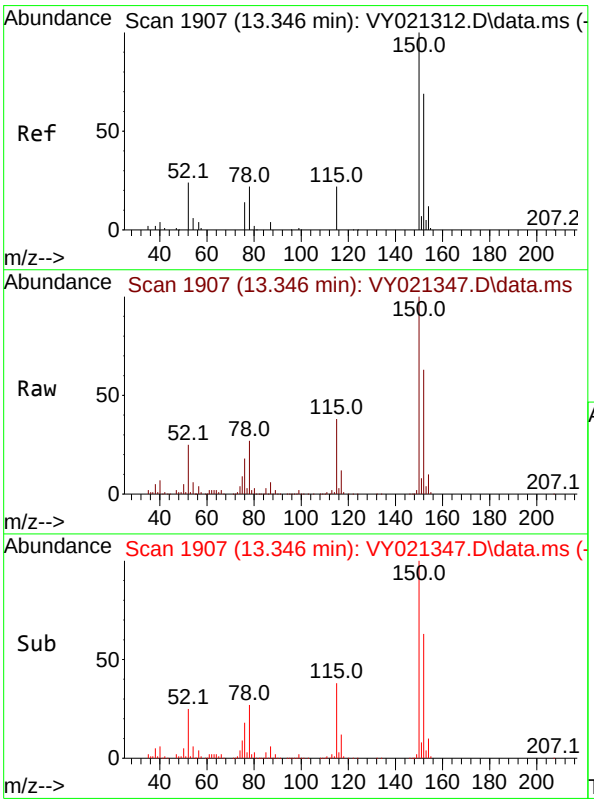
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:117 Resp: 255103

Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.2	69.4
119	32.3	24.9	37.3

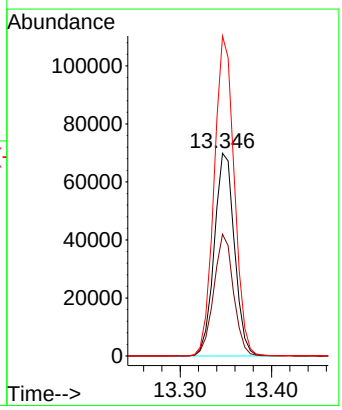




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:152 Resp: 107368

Ion	Ratio	Lower	Upper
152	100		
115	58.5	29.3	88.0
150	157.4	0.0	347.4



Sample Results: **VY021347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021347.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	467	475	492	rVB2	6284	21235	2.42%	0.437%
2	5.640	632	643	655	rBV5	3017	9750	1.11%	0.201%
3	6.884	837	847	865	rBV	15930	53856	6.14%	1.109%
4	7.634	960	970	976	rBV2	126557	309026	35.24%	6.363%
5	7.707	976	982	996	rVB	181083	418824	47.76%	8.623%
6	8.061	1027	1040	1051	rBV	122099	283283	32.30%	5.833%
7	8.615	1122	1131	1145	rBV	315845	630977	71.95%	12.992%
8	10.109	1368	1376	1392	rVB	503363	876938	100.00%	18.056%
9	10.505	1434	1441	1450	rBV	39488	72341	8.25%	1.489%
10	10.877	1492	1502	1510	rBV	13045	22855	2.61%	0.471%
11	11.249	1558	1563	1570	rVB	10227	16372	1.87%	0.337%
12	11.414	1583	1590	1603	rBV	503205	815091	92.95%	16.782%
13	12.407	1746	1753	1762	rBV2	395816	641394	73.14%	13.206%
14	13.346	1901	1907	1915	rBV	448635	672738	76.71%	13.851%
15	15.230	2210	2216	2220	rBV3	7340	12145	1.38%	0.250%

Sum of corrected areas: 4856825

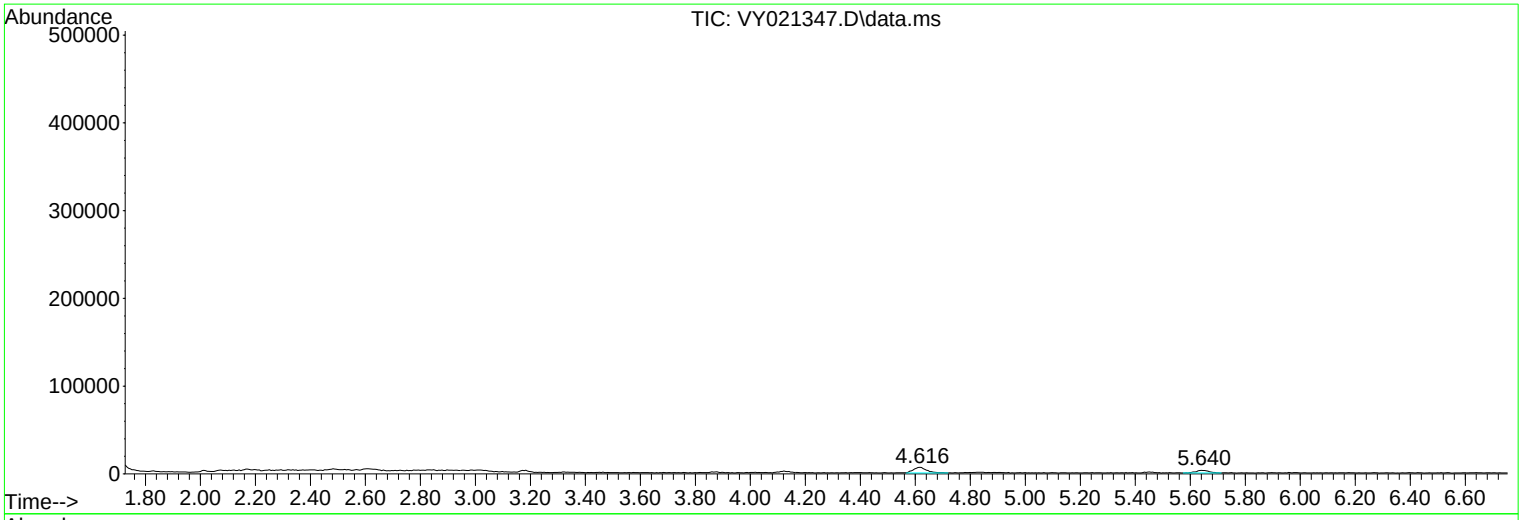
Sample Results: **VY021347.D**

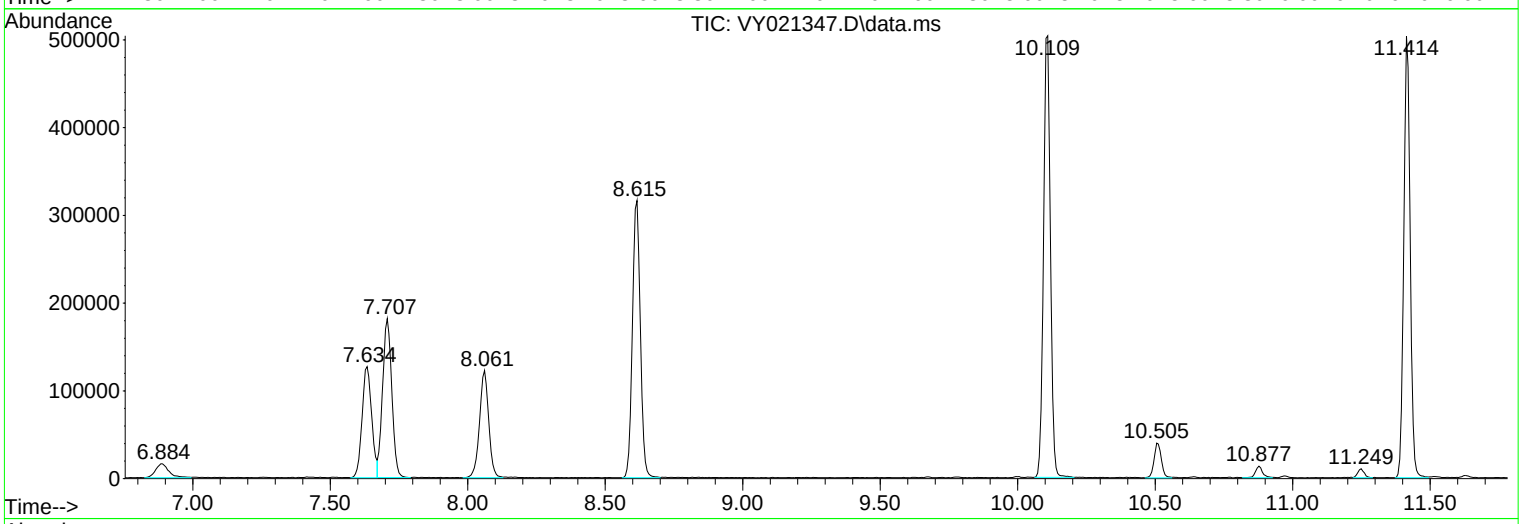
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

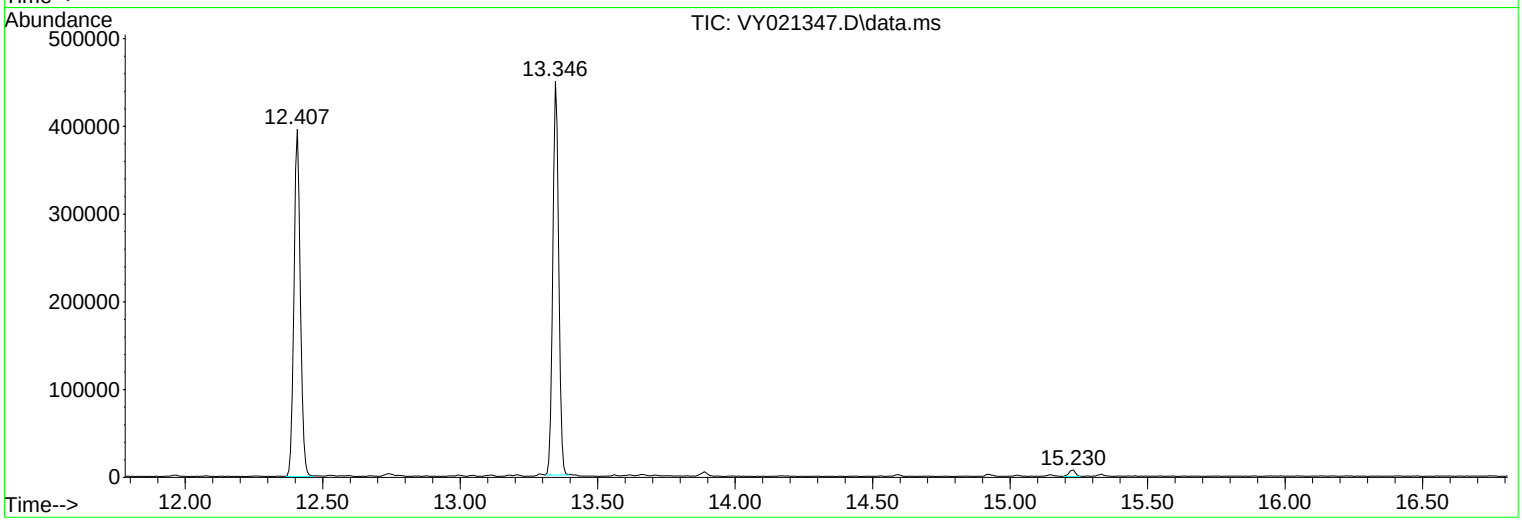
Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Library Search Compound Report

Sample Results: **VY021347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Time: Feb 28 22:18:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	105534	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	180558	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	159029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	59388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	62494	52.201	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.400%			
35) Dibromofluoromethane	7.634	113	61564	52.007	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.020%			
50) Toluene-d8	10.109	98	215695	47.148	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.300%			
62) 4-Bromofluorobenzene	12.408	95	62690	40.717	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.440%			

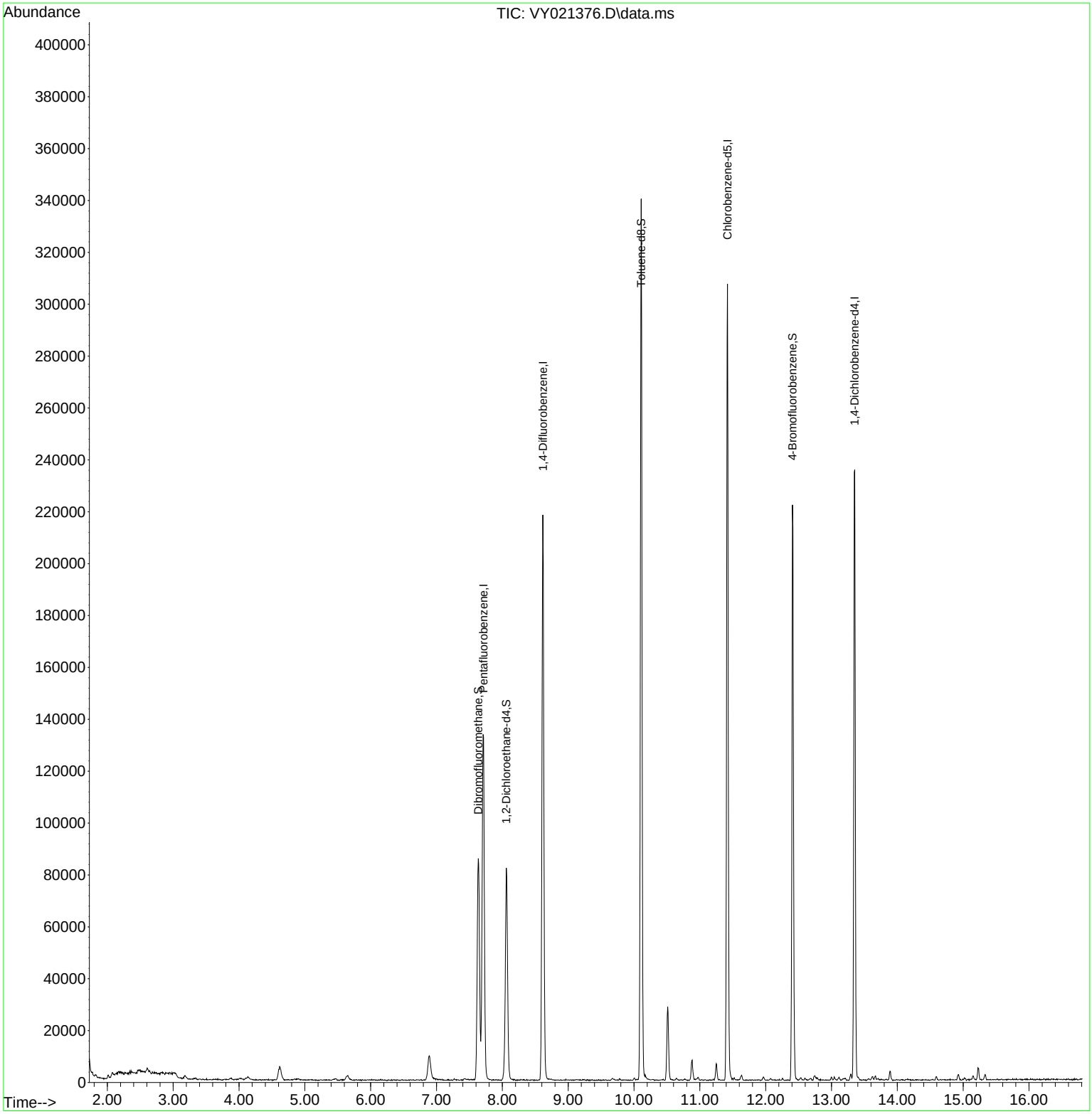
Target Compounds Qvalue

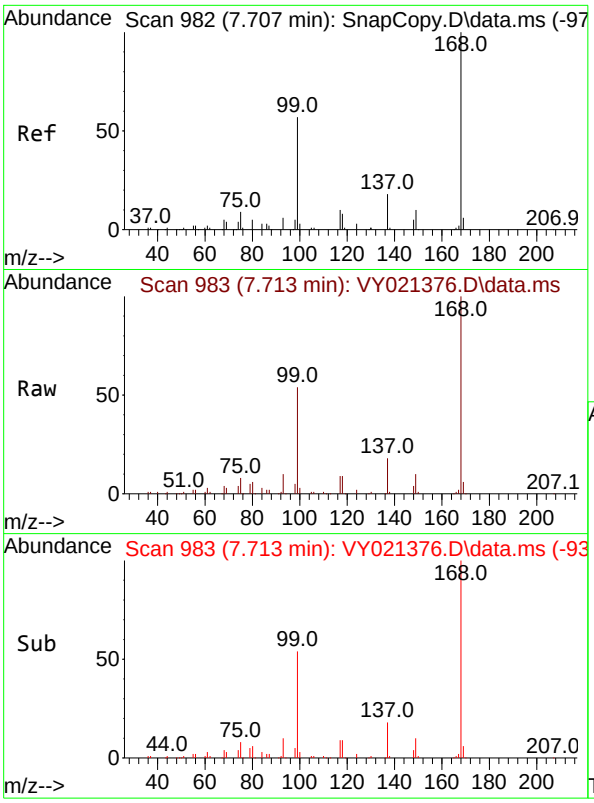
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Time: Feb 28 22:18:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



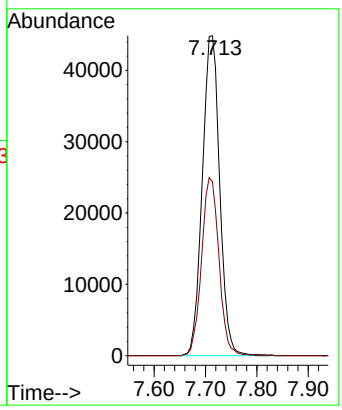


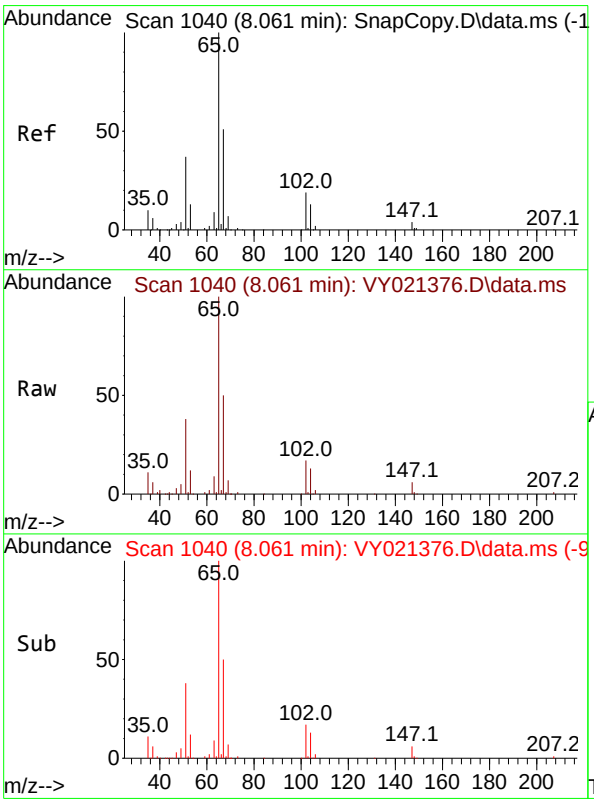
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:168 Resp: 105534

Ion	Ratio	Lower	Upper
168	100		
99	54.4	47.1	70.7

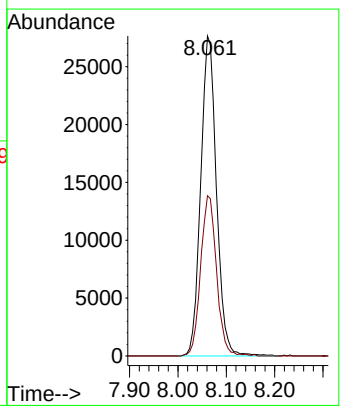


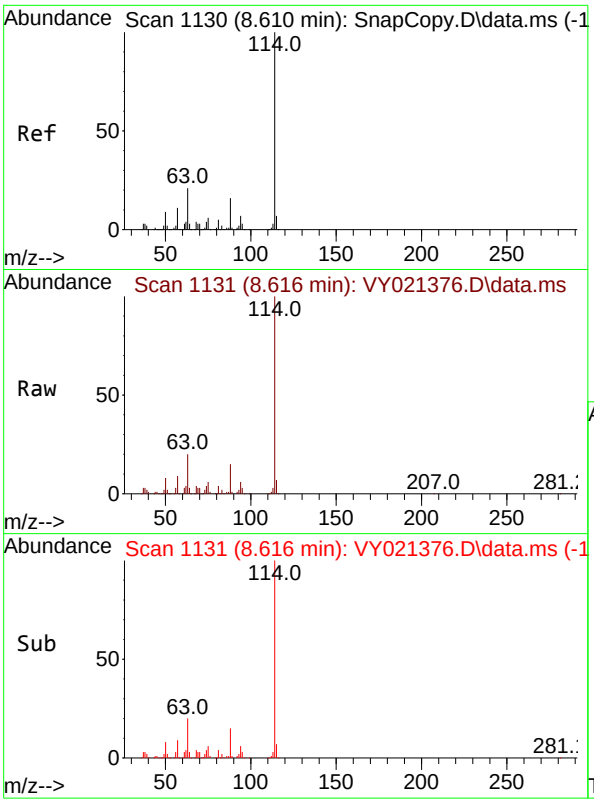


#33
1,2-Dichloroethane-d4
Concen: 52.201 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion: 65 Resp: 62494

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	103.6



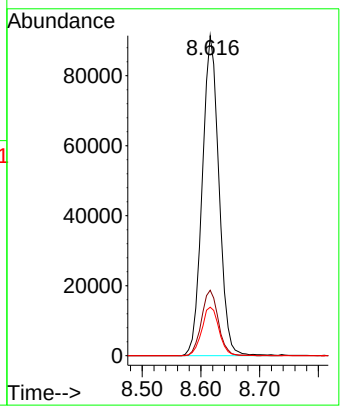


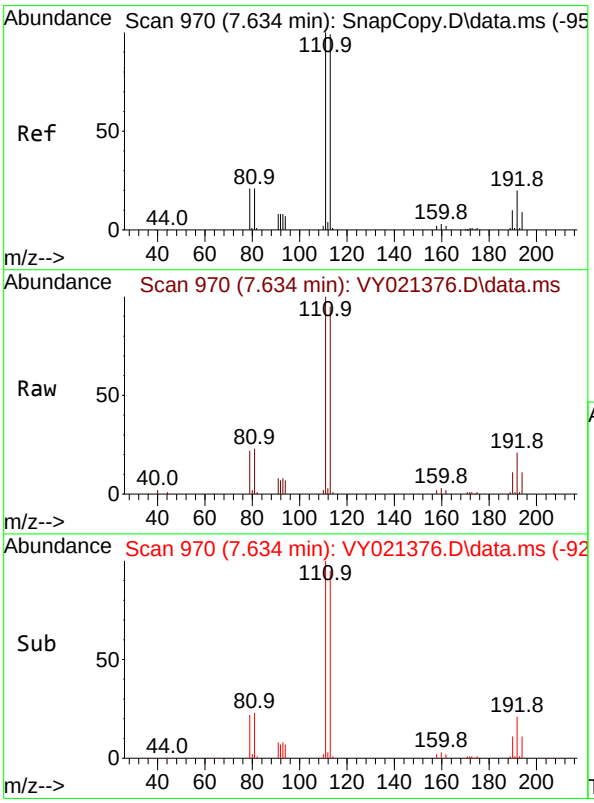
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:114 Resp: 180558

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.2
88	15.2	0.0	29.8

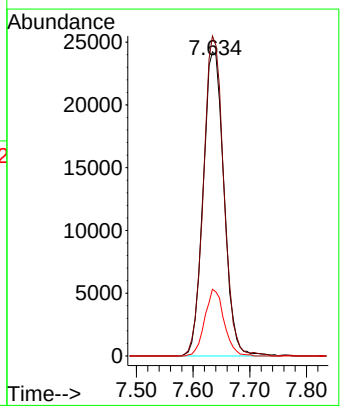


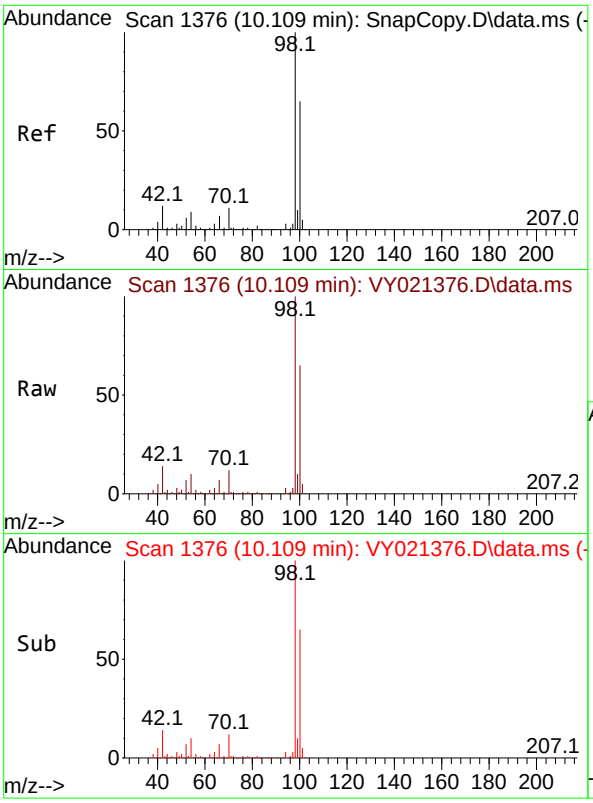


#35
Dibromofluoromethane
Concen: 52.007 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion:113 Resp: 61564

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.6
192	20.3	15.8	23.8



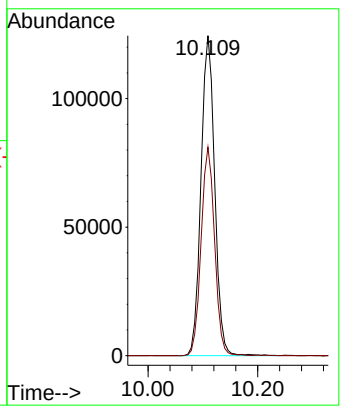


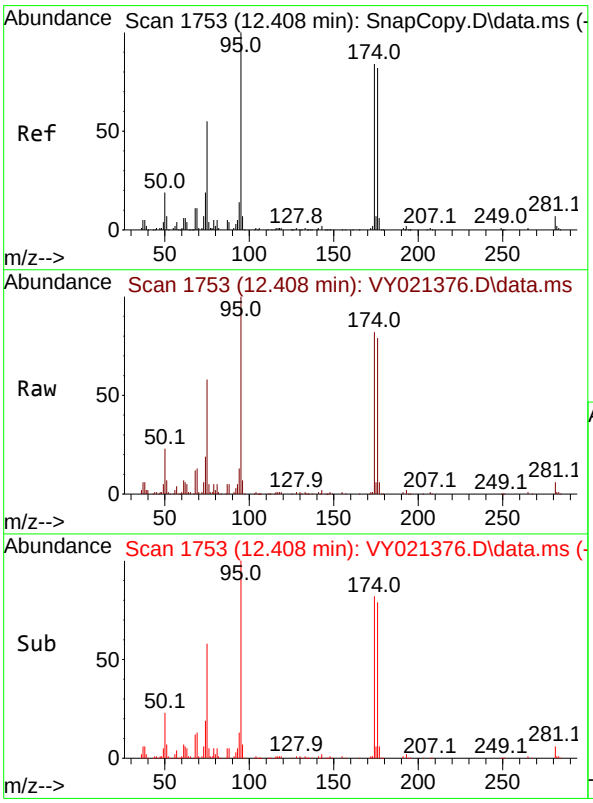
#50
Toluene-d8
Concen: 47.148 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion: 98 Resp: 215695

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.4	78.6

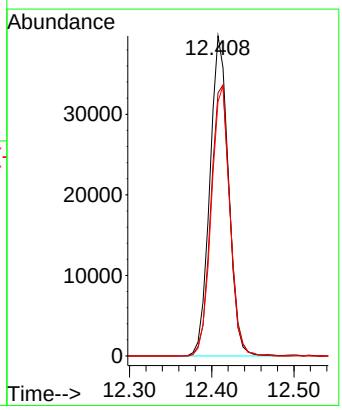


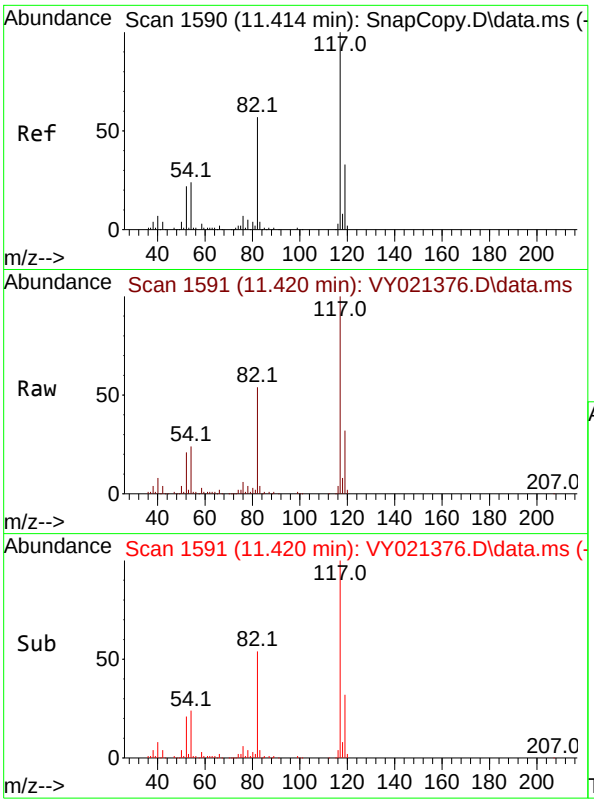


#62
4-Bromofluorobenzene
Concen: 40.717 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion: 95 Resp: 62690

Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	168.0
176	83.6	0.0	162.6



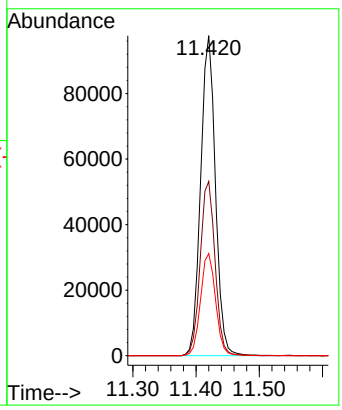


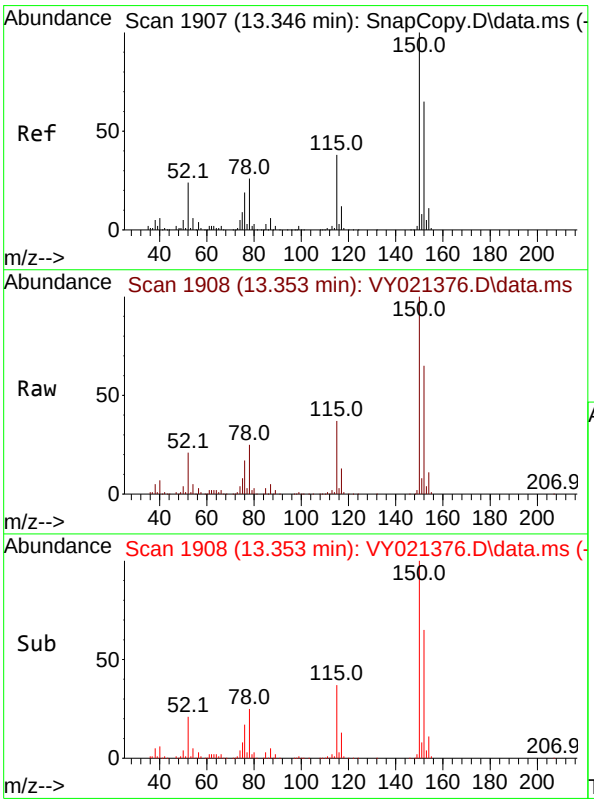
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Tgt Ion:117 Resp: 159029

Ion	Ratio	Lower	Upper
117	100		
82	54.5	46.2	69.4
119	31.9	24.9	37.3

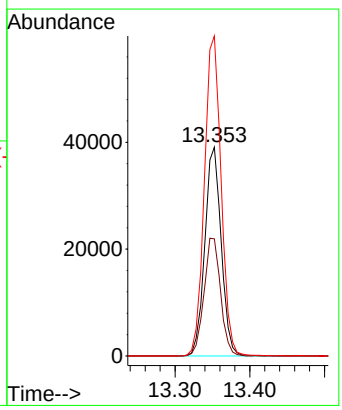




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021376.D
Acq: 28 Feb 2025 10:59

Tgt Ion:152 Resp: 59388

Ion	Ratio	Lower	Upper
152	100		
115	57.1	29.3	88.0
150	156.4	0.0	347.4



Sample Results: **VY021376.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

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\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021376.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	466	475	486	rVB3	5259	16483	2.83%	0.528%
2	6.890	839	848	859	rBV2	9298	29328	5.04%	0.939%
3	7.634	961	970	976	rBV	85357	209625	35.99%	6.709%
4	7.707	976	982	995	rVB	132816	312807	53.71%	10.012%
5	8.061	1027	1040	1055	rBV3	81941	194530	33.40%	6.226%
6	8.616	1123	1131	1145	rBV	217850	433719	74.47%	13.882%
7	10.109	1368	1376	1385	rBV	339535	582391	100.00%	18.641%
8	10.512	1435	1442	1449	rBV	28352	52264	8.97%	1.673%
9	10.884	1495	1503	1508	rBV3	7886	14332	2.46%	0.459%
10	11.249	1558	1563	1569	rBV2	6342	10537	1.81%	0.337%
11	11.420	1583	1591	1602	rBV	307053	509322	87.45%	16.302%
12	12.408	1747	1753	1765	rBV2	221809	372790	64.01%	11.932%
13	13.353	1901	1908	1916	rVV	234724	372159	63.90%	11.912%
14	13.889	1990	1996	2004	rVB3	3626	6380	1.10%	0.204%
15	15.224	2210	2215	2221	rBV2	4691	7662	1.32%	0.245%

Sum of corrected areas: 3124329

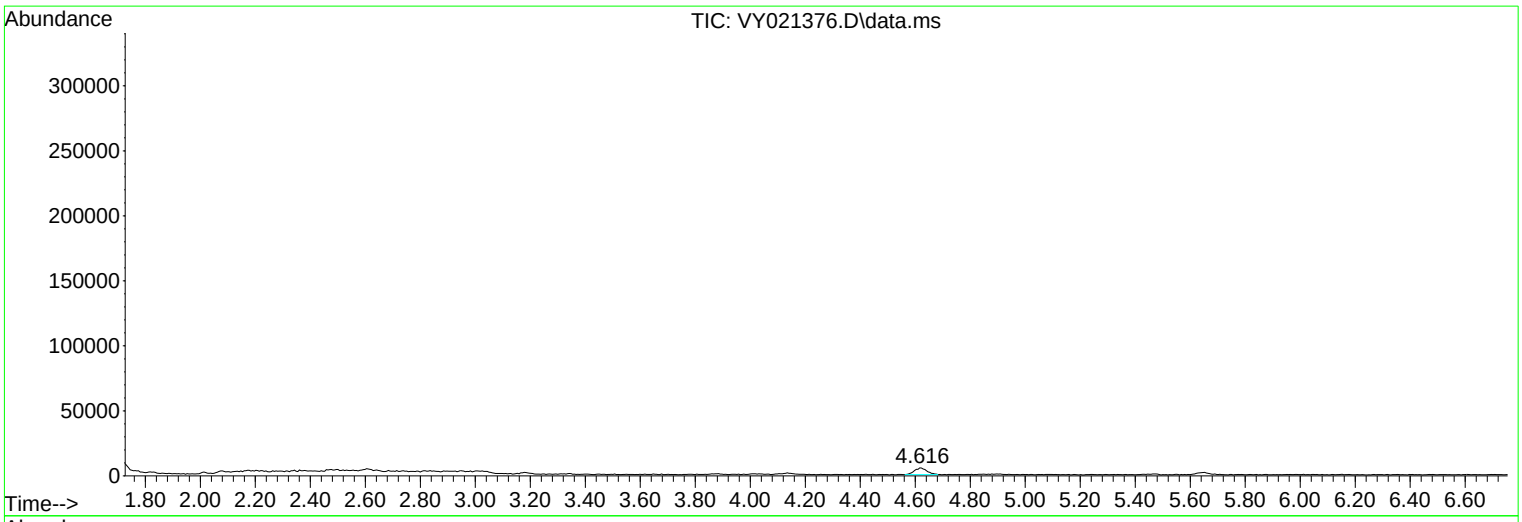
Sample Results: **VY021376.D**

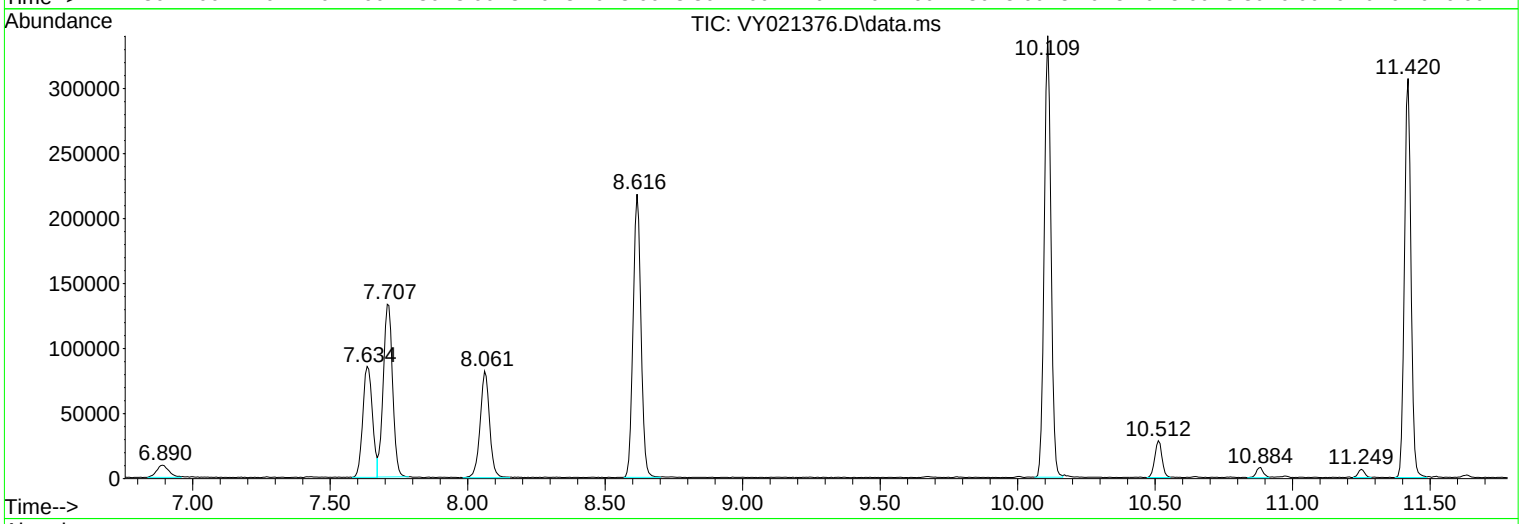
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

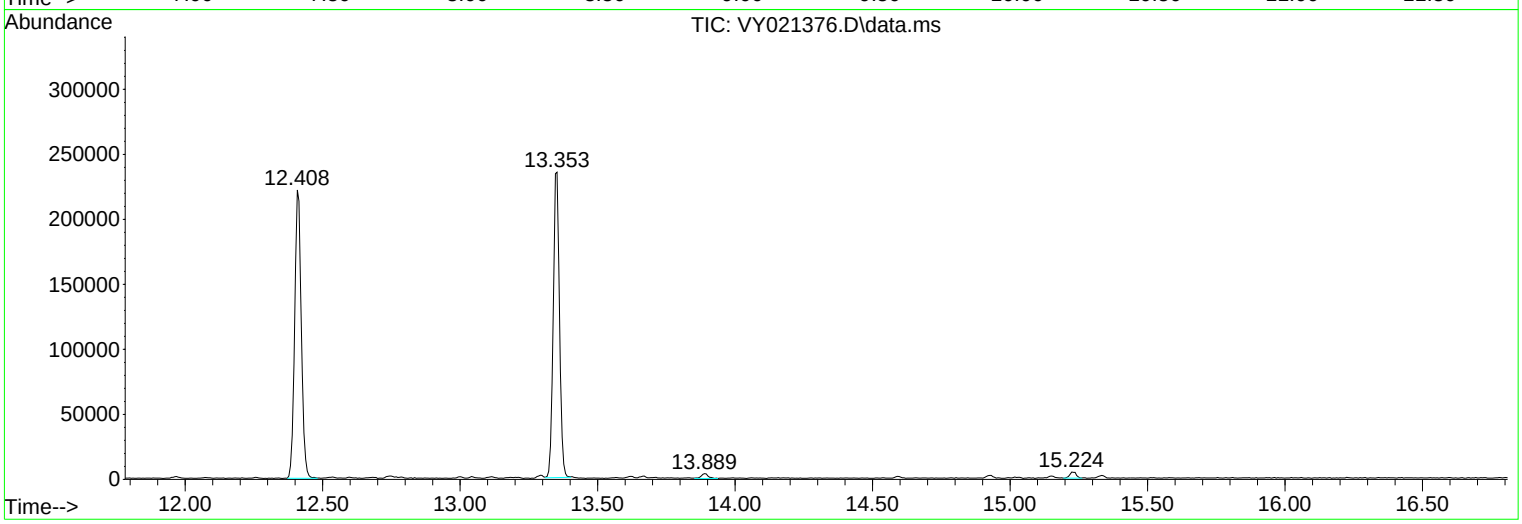
Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022825\
Data File : VY021376.D
Acq On : 28 Feb 2025 10:59
Operator : SY/MD
Sample : VY0228SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.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\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	199987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	311959	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138215	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	116027	51.143	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.280%			
35) Dibromofluoromethane	7.628	113	106867	52.252	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.500%			
50) Toluene-d8	10.103	98	413664	52.334	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.660%			
62) 4-Bromofluorobenzene	12.408	95	139307	52.368	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 104.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	37086	19.559	ug/l	97
3) Chloromethane	2.068	50	45372	18.528	ug/l	98
4) Vinyl Chloride	2.202	62	46452	19.327	ug/l	97
5) Bromomethane	2.586	94	30476	19.081	ug/l	99
6) Chloroethane	2.733	64	29673	19.908	ug/l	98
7) Trichlorofluoromethane	3.056	101	73497	20.248	ug/l	99
8) Diethyl Ether	3.452	74	20917	19.199	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	42936	20.431	ug/l	99
10) Methyl Iodide	4.001	142	41447	18.746	ug/l	100
11) Tert butyl alcohol	4.860	59	15512	88.893	ug/l	97
12) 1,1-Dichloroethene	3.787	96	39988	19.872	ug/l	94
13) Acrolein	3.647	56	22410	167.586	ug/l	95
14) Allyl chloride	4.379	41	67291	18.861	ug/l	99
15) Acrylonitrile	5.055	53	44168	91.694	ug/l	98
16) Acetone	3.866	43	46430	106.690	ug/l	99
17) Carbon Disulfide	4.104	76	123567	18.493	ug/l	100
18) Methyl Acetate	4.385	43	19413	18.253	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	101763	19.141	ug/l	99
20) Methylene Chloride	4.616	84	46825	19.898	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	43373	19.580	ug/l	97
22) Diisopropyl ether	6.019	45	143470	19.433	ug/l	98
23) Vinyl Acetate	5.958	43	413611	93.754	ug/l	99
24) 1,1-Dichloroethane	5.909	63	81302	19.539	ug/l	98
25) 2-Butanone	6.890	43	63968	97.394	ug/l	99
26) 2,2-Dichloropropane	6.878	77	75215	19.921	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	49301	19.490	ug/l	99
28) Bromochloromethane	7.244	49	34908	18.960	ug/l	99
29) Tetrahydrofuran	7.262	42	39410	91.797	ug/l	99
30) Chloroform	7.421	83	84823	20.118	ug/l	98
31) Cyclohexane	7.701	56	74866	18.717	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	76848	20.024	ug/l	98
36) 1,1-Dichloropropene	7.835	75	60971	19.846	ug/l	99
37) Ethyl Acetate	6.988	43	28033	18.344	ug/l	97
38) Carbon Tetrachloride	7.817	117	68822	19.927	ug/l	98
39) Methylcyclohexane	9.109	83	74844	19.261	ug/l	97
40) Benzene	8.079	78	180639	19.891	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	17060m	19.967	ug/l		
42) 1,2-Dichloroethane	8.158	62	52273	20.288	ug/l		99
43) Isopropyl Acetate	8.195	43	54717	18.499	ug/l		99
44) Trichloroethene	8.866	130	45500	20.012	ug/l		97
45) 1,2-Dichloropropane	9.140	63	43265	19.796	ug/l		96
46) Dibromomethane	9.231	93	23940	20.039	ug/l		100
47) Bromodichloromethane	9.420	83	64230	20.164	ug/l		97
48) Methyl methacrylate	9.219	41	24954	18.041	ug/l		97
49) 1,4-Dioxane	9.225	88	4987	375.432	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	139296	91.997	ug/l		99
52) Toluene	10.170	92	114108	20.226	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	56809	19.466	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	66736	19.370	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	31323	20.127	ug/l		98
56) Ethyl methacrylate	10.438	69	41028	19.079	ug/l		97
57) 1,3-Dichloropropane	10.713	76	54720	20.037	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	96301	93.300	ug/l		99
59) 2-Hexanone	10.762	43	95328	95.864	ug/l		100
60) Dibromochloromethane	10.914	129	41937	19.786	ug/l		99
61) 1,2-Dibromoethane	11.012	107	28803	19.549	ug/l		98
64) Tetrachloroethene	10.646	164	40978	19.901	ug/l		97
65) Chlorobenzene	11.438	112	121107	19.805	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	43712	20.415	ug/l		100
67) Ethyl Benzene	11.518	91	217521	20.082	ug/l		98
68) m/p-Xylenes	11.627	106	164558	40.391	ug/l		100
69) o-Xylene	11.956	106	75583	19.803	ug/l		99
70) Styrene	11.969	104	125803	19.811	ug/l		99
71) Bromoform	12.133	173	24353	19.881	ug/l	#	99
73) Isopropylbenzene	12.255	105	206205	19.845	ug/l		99
74) N-amyl acetate	12.072	43	47320	17.916	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34737	18.942	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	25901m	18.722	ug/l		
77) Bromobenzene	12.530	156	47735	19.751	ug/l		97
78) n-propylbenzene	12.597	91	251702	19.962	ug/l		100
79) 2-Chlorotoluene	12.682	91	142369	19.674	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	170506	20.007	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	11755	18.885	ug/l		99
82) 4-Chlorotoluene	12.780	91	149541	19.935	ug/l		99
83) tert-Butylbenzene	12.999	119	154147	20.024	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	170349	20.098	ug/l		100
85) sec-Butylbenzene	13.176	105	225031	20.012	ug/l		99
86) p-Isopropyltoluene	13.292	119	187791	20.000	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	95671	20.011	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	93607	19.820	ug/l		98
89) n-Butylbenzene	13.621	91	175070	19.813	ug/l		100
90) Hexachloroethane	13.883	117	38407	19.583	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	82275	19.642	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5427	18.707	ug/l		98
93) 1,2,4-Trichlorobenzene	14.925	180	46899	18.345	ug/l		99
94) Hexachlorobutadiene	15.029	225	31841	19.783	ug/l		100
95) Naphthalene	15.145	128	73424	17.339	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	40776	18.878	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

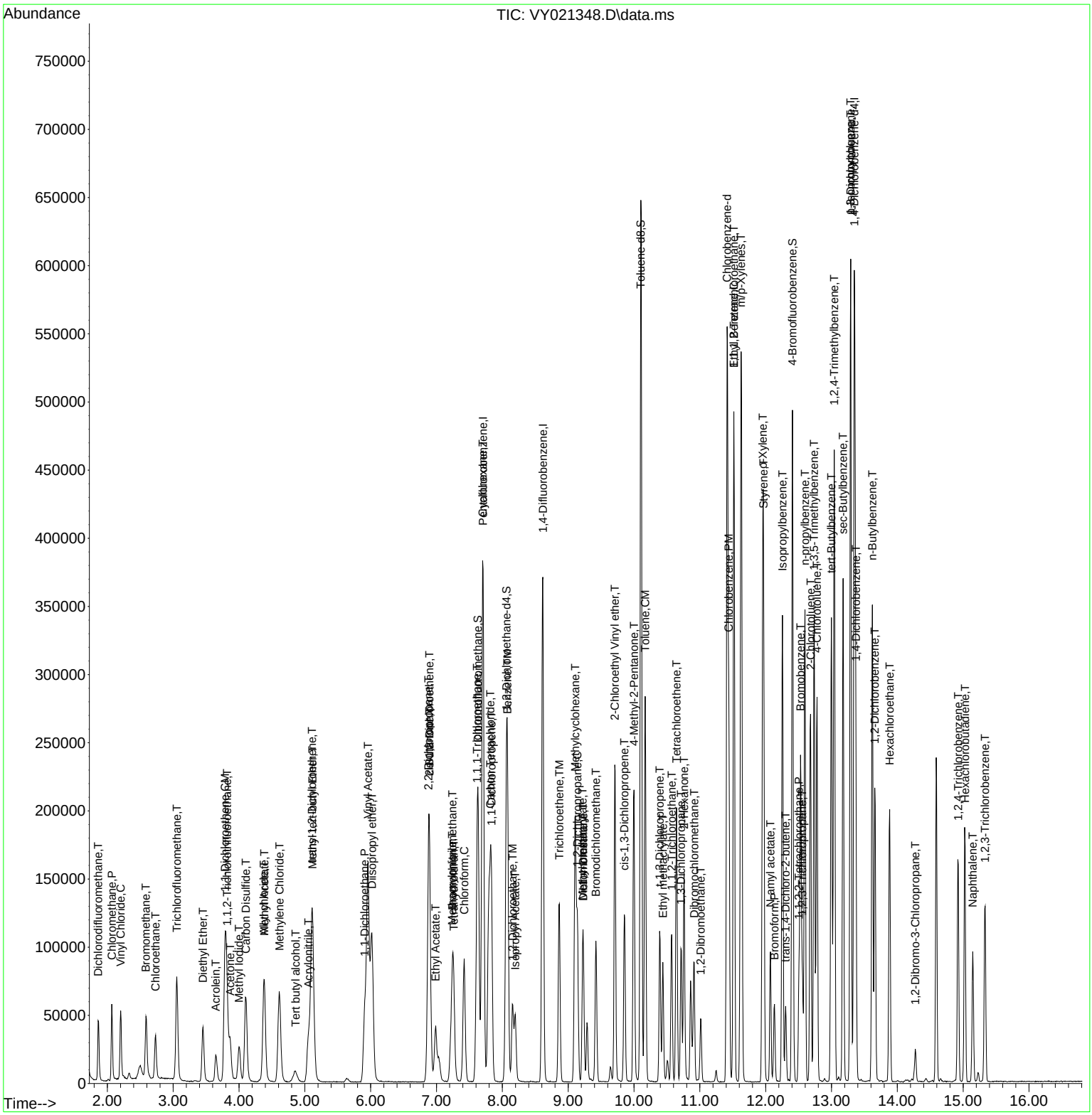
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Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	168970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	257471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	224033	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	115456	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	82743	43.167	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 86.340%			
35) Dibromofluoromethane	7.640	113	77212	45.742	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.480%			
50) Toluene-d8	10.109	98	289320	44.349	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 88.700%			
62) 4-Bromofluorobenzene	12.408	95	95946	43.701	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 87.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	29723	18.553	ug/l	95
3) Chloromethane	2.068	50	36553	17.667	ug/l	99
4) Vinyl Chloride	2.202	62	39280	19.343	ug/l	93
5) Bromomethane	2.592	94	27186	20.145	ug/l	99
6) Chloroethane	2.732	64	25258	20.057	ug/l	98
7) Trichlorofluoromethane	3.056	101	61224	19.963	ug/l	96
8) Diethyl Ether	3.452	74	17417	18.921	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	34990	19.706	ug/l	100
10) Methyl Iodide	4.007	142	34422	18.427	ug/l	99
11) Tert butyl alcohol	4.866	59	12120	82.204	ug/l	99
12) 1,1-Dichloroethene	3.793	96	31916	18.772	ug/l	91
13) Acrolein	3.647	56	16459	145.677	ug/l	97
14) Allyl chloride	4.385	41	49721	16.495	ug/l	96
15) Acrylonitrile	5.061	53	36749	90.297	ug/l	99
16) Acetone	3.872	43	28550	77.647	ug/l	94
17) Carbon Disulfide	4.104	76	98237	17.401	ug/l	97
18) Methyl Acetate	4.385	43	16534	18.400	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	84448	18.800	ug/l	100
20) Methylene Chloride	4.616	84	37924	19.074	ug/l	96
21) trans-1,2-Dichloroethene	5.110	96	34397	18.378	ug/l	96
22) Diisopropyl ether	6.018	45	110995	17.794	ug/l	97
23) Vinyl Acetate	5.964	43	324772	87.130	ug/l	98
24) 1,1-Dichloroethane	5.915	63	63844	18.160	ug/l	99
25) 2-Butanone	6.890	43	46319	83.468	ug/l	97
26) 2,2-Dichloropropane	6.890	77	56022	17.561	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	39898	18.668	ug/l	96
28) Bromochloromethane	7.244	49	27733	17.828	ug/l	92
29) Tetrahydrofuran	7.262	42	31461	86.734	ug/l	97
30) Chloroform	7.421	83	67278	18.886	ug/l	97
31) Cyclohexane	7.701	56	57900	17.133	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	61837	19.070	ug/l	100
36) 1,1-Dichloropropene	7.835	75	47878	18.883	ug/l	99
37) Ethyl Acetate	6.988	43	22949	18.195	ug/l	98
38) Carbon Tetrachloride	7.817	117	55703	19.541	ug/l	99
39) Methylcyclohexane	9.109	83	58155	18.134	ug/l	97
40) Benzene	8.079	78	143523	19.148	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	12586m	17.848	ug/l		
42) 1,2-Dichloroethane	8.158	62	41428	19.481	ug/l		97
43) Isopropyl Acetate	8.195	43	44479	18.220	ug/l		99
44) Trichloroethene	8.865	130	36816	19.619	ug/l		96
45) 1,2-Dichloropropane	9.140	63	34360	19.049	ug/l		99
46) Dibromomethane	9.231	93	19456	19.733	ug/l		97
47) Bromodichloromethane	9.426	83	51835	19.717	ug/l		98
48) Methyl methacrylate	9.219	41	19952	17.477	ug/l		94
49) 1,4-Dioxane	9.231	88	4114	375.255	ug/l		92
51) 4-Methyl-2-Pentanone	9.999	43	115289	92.255	ug/l		100
52) Toluene	10.170	92	89754	19.276	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	44692	18.555	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	53051	18.657	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	25241	19.651	ug/l		98
56) Ethyl methacrylate	10.438	69	33119	18.661	ug/l		98
57) 1,3-Dichloropropane	10.719	76	44249	19.632	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	75597	88.741	ug/l		97
59) 2-Hexanone	10.761	43	74950	91.322	ug/l		100
60) Dibromochloromethane	10.914	129	35624	20.364	ug/l		98
61) 1,2-Dibromoethane	11.011	107	23736	19.519	ug/l		97
64) Tetrachloroethene	10.646	164	34526	20.389	ug/l		98
65) Chlorobenzene	11.444	112	99308	19.747	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	35523	20.173	ug/l		100
67) Ethyl Benzene	11.524	91	170306	19.119	ug/l		99
68) m/p-Xylenes	11.633	106	131250	39.173	ug/l		98
69) o-Xylene	11.956	106	61033	19.445	ug/l		98
70) Styrene	11.969	104	102541	19.635	ug/l		99
71) Bromoform	12.133	173	20397	20.248	ug/l	#	99
73) Isopropylbenzene	12.255	105	164175	18.914	ug/l		100
74) N-amyl acetate	12.072	43	37786	17.127	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.511	83	29422	19.206	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	22194m	19.205	ug/l		
77) Bromobenzene	12.536	156	39235	19.434	ug/l		94
78) n-propylbenzene	12.597	91	196454	18.652	ug/l		98
79) 2-Chlorotoluene	12.682	91	113116	18.713	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	136074	19.114	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.310	75	8873	17.065	ug/l		96
82) 4-Chlorotoluene	12.779	91	115393	18.415	ug/l		98
83) tert-Butylbenzene	12.999	119	119869	18.640	ug/l		100
84) 1,2,4-Trimethylbenzene	13.048	105	135274	19.106	ug/l		99
85) sec-Butylbenzene	13.176	105	176579	18.799	ug/l		99
86) p-Isopropyltoluene	13.292	119	148920	18.987	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	77744	19.467	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	76272	19.333	ug/l		99
89) n-Butylbenzene	13.621	91	136569	18.503	ug/l		98
90) Hexachloroethane	13.883	117	30423	18.570	ug/l		97
91) 1,2-Dichlorobenzene	13.663	146	68082	19.458	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4491	18.532	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	39259	18.384	ug/l		99
94) Hexachlorobutadiene	15.029	225	25857	19.232	ug/l		99
95) Naphthalene	15.151	128	61755	17.459	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	33733	18.696	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022825\
Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025

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

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

Sample Results: **VY021377.D**

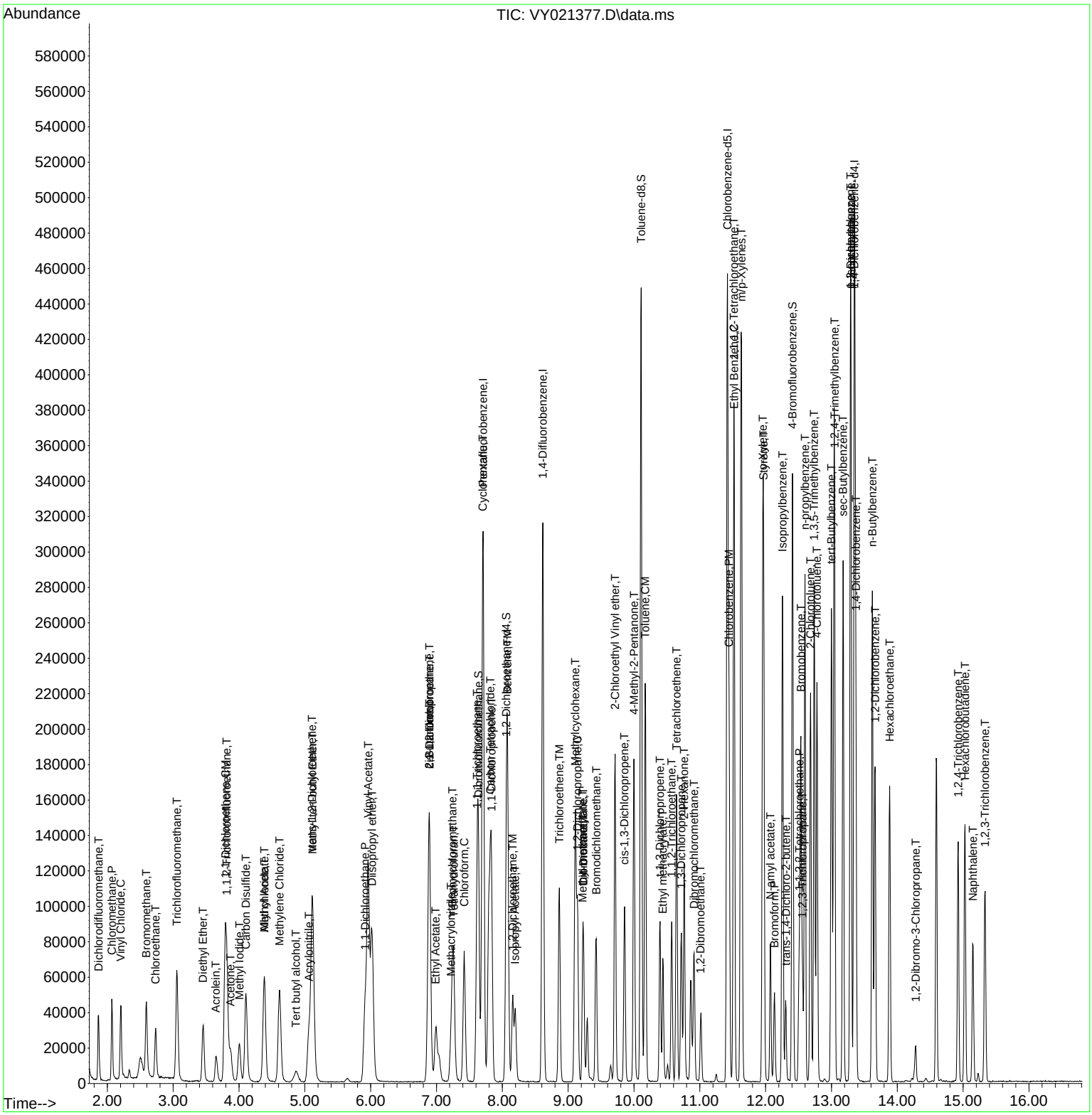
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Data File : VY021377.D
Acq On : 28 Feb 2025 11:32
Operator : SY/MD
Sample : VY0228SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 22:18:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0228SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/03/2025
Supervised By :Mahesh Dadoda 03/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	198659	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	310671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	137933	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	101944	45.236	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.480%			
35) Dibromofluoromethane	7.634	113	92849	45.586	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.180%			
50) Toluene-d8	10.103	98	356688	45.313	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.620%			
62) 4-Bromofluorobenzene	12.402	95	119898	45.259	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	35262	18.721	ug/l	98
3) Chloromethane	2.068	50	44619	18.343	ug/l	97
4) Vinyl Chloride	2.202	62	44508	18.642	ug/l	99
5) Bromomethane	2.586	94	29567	18.635	ug/l	100
6) Chloroethane	2.733	64	29123	19.670	ug/l	98
7) Trichlorofluoromethane	3.056	101	70391	19.522	ug/l	99
8) Diethyl Ether	3.452	74	21878	20.216	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	42182	20.206	ug/l	98
10) Methyl Iodide	4.001	142	43590	19.847	ug/l	99
11) Tert butyl alcohol	4.848	59	16710m	96.398	ug/l	
12) 1,1-Dichloroethene	3.787	96	38944	19.483	ug/l	98
13) Acrolein	3.653	56	24700	185.946	ug/l	94
14) Allyl chloride	4.379	41	65599	18.510	ug/l	99
15) Acrylonitrile	5.055	53	47280	98.811	ug/l	99
16) Acetone	3.867	43	44126	102.074	ug/l	98
17) Carbon Disulfide	4.104	76	122176	18.407	ug/l	97
18) Methyl Acetate	4.385	43	20494	19.398	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	105075	19.896	ug/l	97
20) Methylene Chloride	4.616	84	48638	20.806	ug/l	94
21) trans-1,2-Dichloroethene	5.110	96	42797	19.449	ug/l	95
22) Diisopropyl ether	6.012	45	143925	19.625	ug/l	99
23) Vinyl Acetate	5.958	43	422766	96.470	ug/l	99
24) 1,1-Dichloroethane	5.915	63	79851	19.319	ug/l	97
25) 2-Butanone	6.890	43	65440	100.301	ug/l	93
26) 2,2-Dichloropropane	6.878	77	72271	19.269	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	49527	19.710	ug/l	98
28) Bromochloromethane	7.244	49	36677	20.054	ug/l	98
29) Tetrahydrofuran	7.256	42	42111	98.745	ug/l	99
30) Chloroform	7.415	83	83409	19.915	ug/l	96
31) Cyclohexane	7.695	56	72200	18.172	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	75049	19.686	ug/l	99
36) 1,1-Dichloropropene	7.835	75	59900	19.578	ug/l	99
37) Ethyl Acetate	6.982	43	29786	19.572	ug/l	98
38) Carbon Tetrachloride	7.817	117	68272	19.849	ug/l	99
39) Methylcyclohexane	9.109	83	74465	19.243	ug/l	96
40) Benzene	8.079	78	179474	19.844	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	15267	17.942	ug/l	#	90
42) 1,2-Dichloroethane	8.158	62	52390	20.417	ug/l		99
43) Isopropyl Acetate	8.195	43	58264	19.779	ug/l		99
44) Trichloroethene	8.866	130	45194	19.959	ug/l		100
45) 1,2-Dichloropropane	9.140	63	42605	19.575	ug/l		100
46) Dibromomethane	9.225	93	24136	20.287	ug/l		99
47) Bromodichloromethane	9.420	83	64023	20.183	ug/l		98
48) Methyl methacrylate	9.219	41	27400	19.891	ug/l		99
49) 1,4-Dioxane	9.225	88	5250	396.870	ug/l		95
51) 4-Methyl-2-Pentanone	10.000	43	149583	99.200	ug/l		100
52) Toluene	10.170	92	111889	19.915	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	57123	19.655	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	66848	19.483	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	31392	20.255	ug/l		98
56) Ethyl methacrylate	10.438	69	42049	19.635	ug/l		99
57) 1,3-Dichloropropane	10.713	76	55897	20.553	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	101862	99.097	ug/l		98
59) 2-Hexanone	10.762	43	98713	99.680	ug/l		99
60) Dibromochloromethane	10.908	129	43397	20.559	ug/l		99
61) 1,2-Dibromoethane	11.012	107	29498	20.104	ug/l		99
64) Tetrachloroethene	10.646	164	40481	19.686	ug/l		97
65) Chlorobenzene	11.438	112	119791	19.616	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	43652	20.414	ug/l		98
67) Ethyl Benzene	11.518	91	213261	19.715	ug/l		99
68) m/p-Xylenes	11.627	106	160355	39.412	ug/l		98
69) o-Xylene	11.957	106	74908	19.653	ug/l		99
70) Styrene	11.969	104	123889	19.536	ug/l		99
71) Bromoform	12.133	173	24357	19.911	ug/l	#	95
73) Isopropylbenzene	12.255	105	202320	19.511	ug/l		99
74) N-amyl acetate	12.066	43	50118	19.015	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37100	20.272	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	25467m	18.446	ug/l		
77) Bromobenzene	12.530	156	46970	19.474	ug/l		99
78) n-propylbenzene	12.597	91	244088	19.398	ug/l		100
79) 2-Chlorotoluene	12.682	91	141363	19.575	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	166093	19.529	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	12177	19.603	ug/l		99
82) 4-Chlorotoluene	12.780	91	146247	19.536	ug/l		100
83) tert-Butylbenzene	12.999	119	150694	19.615	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	168485	19.919	ug/l		99
85) sec-Butylbenzene	13.176	105	220676	19.665	ug/l		99
86) p-Isopropyltoluene	13.292	119	182981	19.528	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	93913	19.684	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	92534	19.632	ug/l		99
89) n-Butylbenzene	13.615	91	171802	19.483	ug/l		99
90) Hexachloroethane	13.883	117	37407	19.112	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	82600	19.760	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5991	20.694	ug/l		92
93) 1,2,4-Trichlorobenzene	14.919	180	48418	18.978	ug/l		99
94) Hexachlorobutadiene	15.023	225	30957	19.273	ug/l		99
95) Naphthalene	15.145	128	78577	18.594	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	41048	19.042	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

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

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

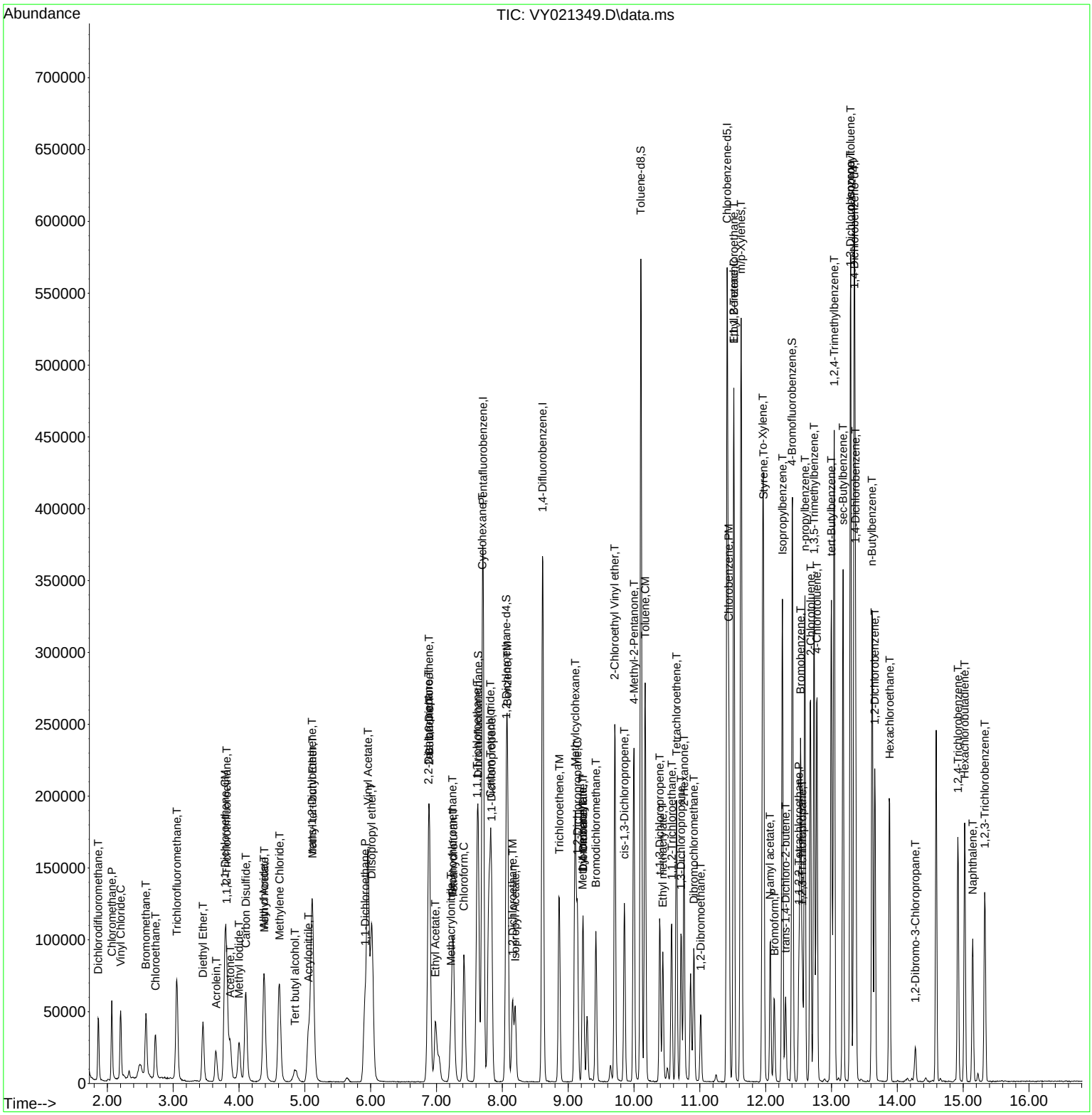
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021349.D
Acq On : 27 Feb 2025 11:40
Operator : SY/MD
Sample : VY0227SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 00:40:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



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Manual Integration Report

Sequence:	VY022525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021309.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC005	VY021309.D	Methacrylonitrile	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC010	VY021310.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:29 AM	MMDadoda	2/26/2025 1:44:32 PM	Peak Integrated by Software
VSTDICC020	VY021311.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:33 AM	MMDadoda	2/26/2025 1:44:34 PM	Peak Integrated by Software
VSTDICCC050	VY021312.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:52 AM	MMDadoda	2/26/2025 1:44:36 PM	Peak Integrated by Software
VSTDICC150	VY021314.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:40 AM	MMDadoda	2/26/2025 1:44:39 PM	Peak Integrated by Software
VSTDICC100	VY021316.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:43 AM	MMDadoda	2/26/2025 1:44:41 PM	Peak Integrated by Software
VSTDICV050	VY021317.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:47 AM	MMDadoda	2/26/2025 1:44:42 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY022725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021346.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:30 AM	SAM	2/28/2025 11:10:54 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	Methacrylonitrile	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VY0227SBSD01	VY021349.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:34 AM	SAM	2/28/2025 11:10:56 AM	Peak Integrated by Software
VY0227SBSD01	VY021349.D	Tert butyl alcohol	MMDadoda	2/28/2025 11:07:34 AM	SAM	2/28/2025 11:10:56 AM	Peak Integrated by Software
VSTDCCC050	VY021373.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:40 AM	SAM	2/28/2025 11:10:58 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY022825	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021375.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:25 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VY0228SBS01	VY021377.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:30 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VY0228SBS01	VY021377.D	Methacrylonitrile	JOHN	3/3/2025 12:11:30 PM	MMDadoda	3/3/2025 1:50:26 PM	Peak Integrated by Software
VSTDCCC050	VY021394.D	1,2,3-Trichloropropane	JOHN	3/3/2025 12:11:49 PM	MMDadoda	3/3/2025 1:50:32 PM	Peak Integrated by Software
VSTDCCC050	VY021394.D	Methacrylonitrile	JOHN	3/3/2025 12:11:49 PM	MMDadoda	3/3/2025 1:50:32 PM	Peak Integrated by Software

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021308.D	25 Feb 2025 12:10	SY/MD	Ok
2	VSTDICC005	VY021309.D	25 Feb 2025 12:40	SY/MD	Ok,M
3	VSTDICC010	VY021310.D	25 Feb 2025 13:03	SY/MD	Ok,M
4	VSTDICC020	VY021311.D	25 Feb 2025 13:26	SY/MD	Ok,M
5	VSTDICCC050	VY021312.D	25 Feb 2025 14:48	SY/MD	Ok,M
6	VSTDICC100	VY021313.D	25 Feb 2025 15:34	SY/MD	Not Ok
7	VSTDICC150	VY021314.D	25 Feb 2025 15:57	SY/MD	Ok,M
8	VIBLK	VY021315.D	25 Feb 2025 16:24	SY/MD	Ok
9	VSTDICC100	VY021316.D	25 Feb 2025 16:49	SY/MD	Ok,M
10	VSTDICV050	VY021317.D	25 Feb 2025 17:31	SY/MD	Ok,M
11	VIBLK	VY021318.D	25 Feb 2025 17:54	SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021345.D	27 Feb 2025 09:41	SY/MD	Ok
2	VSTDCCC050	VY021346.D	27 Feb 2025 10:13	SY/MD	Ok,M
3	VY0227SBL01	VY021347.D	27 Feb 2025 10:42	SY/MD	Ok
4	VY0227SBS01	VY021348.D	27 Feb 2025 11:18	SY/MD	Ok,M
5	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40	SY/MD	Ok,M
6	Q1428-01	VY021350.D	27 Feb 2025 12:04	SY/MD	ReRun
7	Q1442-03	VY021351.D	27 Feb 2025 12:28	SY/MD	Ok
8	Q1416-01RE	VY021352.D	27 Feb 2025 12:51	SY/MD	Confirms
9	Q1428-01RE	VY021353.D	27 Feb 2025 13:14	SY/MD	Confirms
10	Q1418-01	VY021354.D	27 Feb 2025 13:38	SY/MD	Not Ok
11	Q1415-03RE	VY021355.D	27 Feb 2025 14:01	SY/MD	Confirms
12	Q1422-02	VY021356.D	27 Feb 2025 14:25	SY/MD	ReRun
13	Q1422-01	VY021357.D	27 Feb 2025 14:48	SY/MD	ReRun
14	Q1421-09	VY021358.D	27 Feb 2025 15:12	SY/MD	ReRun
15	Q1421-07	VY021359.D	27 Feb 2025 15:35	SY/MD	ReRun
16	Q1421-01	VY021360.D	27 Feb 2025 15:58	SY/MD	Ok
17	Q1427-01RE	VY021361.D	27 Feb 2025 16:22	SY/MD	Confirms
18	Q1420-07	VY021362.D	27 Feb 2025 16:45	SY/MD	Ok
19	Q1411-03	VY021363.D	27 Feb 2025 17:09	SY/MD	Not Ok
20	Q1411-01	VY021364.D	27 Feb 2025 17:32	SY/MD	Ok
21	Q1440-01	VY021365.D	27 Feb 2025 17:55	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1448-01	VY021366.D	27 Feb 2025 18:19	SY/MD	ReRun
23	Q1448-02	VY021367.D	27 Feb 2025 18:42	SY/MD	ReRun
24	Q1448-03	VY021368.D	27 Feb 2025 19:06	SY/MD	ReRun
25	Q1448-04	VY021369.D	27 Feb 2025 19:29	SY/MD	Dilution
26	Q1448-05	VY021370.D	27 Feb 2025 19:52	SY/MD	ReRun
27	Q1421-02MS	VY021371.D	27 Feb 2025 20:15	SY/MD	Ok,M
28	Q1421-03MSD	VY021372.D	27 Feb 2025 20:38	SY/MD	Ok,M
29	VSTDCCC050	VY021373.D	27 Feb 2025 21:01	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM				
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM				
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
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	VY021374.D	28 Feb 2025 09:03	SY/MD	Ok
2	VSTDCCC050	VY021375.D	28 Feb 2025 09:44	SY/MD	Ok,M
3	VY0228SBL01	VY021376.D	28 Feb 2025 10:59	SY/MD	Ok
4	VY0228SBS01	VY021377.D	28 Feb 2025 11:32	SY/MD	Ok,M
5	VY0228SBSD01	VY021378.D	28 Feb 2025 11:55	SY/MD	Ok,M
6	Q1421-07RE	VY021379.D	28 Feb 2025 12:56	SY/MD	Confirms
7	Q1422-01RE	VY021380.D	28 Feb 2025 13:20	SY/MD	Confirms
8	Q1422-02	VY021381.D	28 Feb 2025 15:31	SY/MD	Ok
9	Q1448-01	VY021382.D	28 Feb 2025 15:55	SY/MD	ReRun
10	Q1448-02	VY021383.D	28 Feb 2025 16:18	SY/MD	ReRun
11	Q1448-03	VY021384.D	28 Feb 2025 16:41	SY/MD	ReRun
12	Q1448-05	VY021385.D	28 Feb 2025 17:05	SY/MD	ReRun
13	Q1440-01	VY021386.D	28 Feb 2025 17:28	SY/MD	Ok
14	Q1441-01	VY021387.D	28 Feb 2025 17:52	SY/MD	ReRun
15	Q1458-02	VY021388.D	28 Feb 2025 18:15	SY/MD	Ok,M
16	Q1463-01	VY021389.D	28 Feb 2025 18:38	SY/MD	ReRun
17	Q1457-01	VY021390.D	28 Feb 2025 19:02	SY/MD	Ok
18	Q1463-03	VY021391.D	28 Feb 2025 19:25	SY/MD	ReRun
19	Q1463-04	VY021392.D	28 Feb 2025 19:49	SY/MD	ReRun
20	Q1463-05	VY021393.D	28 Feb 2025 20:12	SY/MD	ReRun
21	VSTDCCC050	VY021394.D	28 Feb 2025 20:35	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021308.D	25 Feb 2025 12:10		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021309.D	25 Feb 2025 12:40		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021310.D	25 Feb 2025 13:03		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021311.D	25 Feb 2025 13:26	Acrolein fail for method	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021312.D	25 Feb 2025 14:48		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021313.D	25 Feb 2025 15:34	Not used	SY/MD	Not Ok
7	VSTDICC150	VSTDICC150	VY021314.D	25 Feb 2025 15:57		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021315.D	25 Feb 2025 16:24		SY/MD	Ok
9	VSTDICC100	VSTDICC100	VY021316.D	25 Feb 2025 16:49		SY/MD	Ok,M
10	VSTDICV050	ICVVY022525	VY021317.D	25 Feb 2025 17:31	ICV Failed for comp. #10	SY/MD	Ok,M
11	VIBLK	VIBLK	VY021318.D	25 Feb 2025 17:54		SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
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	VY021345.D	27 Feb 2025 09:41		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021346.D	27 Feb 2025 10:13		SY/MD	Ok,M
3	VY0227SBL01	VY0227SBL01	VY021347.D	27 Feb 2025 10:42		SY/MD	Ok
4	VY0227SBS01	VY0227SBS01	VY021348.D	27 Feb 2025 11:18		SY/MD	Ok,M
5	VY0227SBSD01	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40		SY/MD	Ok,M
6	Q1428-01	NB-07-022525	VY021350.D	27 Feb 2025 12:04	Vial-A ISTD Fail	SY/MD	ReRun
7	Q1442-03	351	VY021351.D	27 Feb 2025 12:28	Vial-A	SY/MD	Ok
8	Q1416-01RE	OK-01-022425RE	VY021352.D	27 Feb 2025 12:51	Vial-B ISTD Fail	SY/MD	Confirms
9	Q1428-01RE	NB-07-022525RE	VY021353.D	27 Feb 2025 13:14	Vial-B Internal Standard Fail	SY/MD	Confirms
10	Q1418-01	TR-06-02242025	VY021354.D	27 Feb 2025 13:38	Vial-B Not purge	SY/MD	Not Ok
11	Q1415-03RE	B-163-SB02RE	VY021355.D	27 Feb 2025 14:01	Vial-B Internal standard fail;Not match for com.#20	SY/MD	Confirms
12	Q1422-02	B-154-SB02	VY021356.D	27 Feb 2025 14:25	Vial-A Internal standard fail	SY/MD	ReRun
13	Q1422-01	B-154-SB01	VY021357.D	27 Feb 2025 14:48	Vial-A Internal standard fail	SY/MD	ReRun
14	Q1421-09	P001-CLAY-CF02-01	VY021358.D	27 Feb 2025 15:12	Internal Standard Fail	SY/MD	ReRun
15	Q1421-07	P001-CLAY-CF01-02	VY021359.D	27 Feb 2025 15:35	Vial-A Internal standard fail	SY/MD	ReRun
16	Q1421-01	P001-CLAY-CF01-01	VY021360.D	27 Feb 2025 15:58	Vial-A Internal standard fail	SY/MD	Ok
17	Q1427-01RE	VNJ-227RE	VY021361.D	27 Feb 2025 16:22	Vial-B Internal standard fail;Surrogate fail	SY/MD	Confirms

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1420-07	TP-2-WC-VOC	VY021362.D	27 Feb 2025 16:45	Vial-B	SY/MD	Ok
19	Q1411-03	HR-03-02212025	VY021363.D	27 Feb 2025 17:09	Vial-B Not purge	SY/MD	Not Ok
20	Q1411-01	HR-02-02212025	VY021364.D	27 Feb 2025 17:32	Vial-B Internal standard fail	SY/MD	Ok
21	Q1440-01	OR-02-022625	VY021365.D	27 Feb 2025 17:55	Vial-A Internal standard fail	SY/MD	ReRun
22	Q1448-01	PSP1	VY021366.D	27 Feb 2025 18:19	Vial-A Internal standard fail	SY/MD	ReRun
23	Q1448-02	P1	VY021367.D	27 Feb 2025 18:42	Vial-A Internal standard fail	SY/MD	ReRun
24	Q1448-03	P2	VY021368.D	27 Feb 2025 19:06	Vial-A Internal standard fail	SY/MD	ReRun
25	Q1448-04	P3	VY021369.D	27 Feb 2025 19:29	Vial-A Internal standard fail;Need MeOH	SY/MD	Dilution
26	Q1448-05	P4	VY021370.D	27 Feb 2025 19:52	Vial-A Internal standard fail	SY/MD	ReRun
27	Q1421-02MS	P001-CLAY-CF01-01M	VY021371.D	27 Feb 2025 20:15	Vial-A Internal standard fail	SY/MD	Ok,M
28	Q1421-03MSD	P001-CLAY-CF01-01M	VY021372.D	27 Feb 2025 20:38	Vial-A Internal standard fail	SY/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VY021373.D	27 Feb 2025 21:01		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM		
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
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	VY021374.D	28 Feb 2025 09:03		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021375.D	28 Feb 2025 09:44	CCAL failed low for comp. #11; CCAL failed high for comp. #16	SY/MD	Ok,M
3	VY0228SBL01	VY0228SBL01	VY021376.D	28 Feb 2025 10:59		SY/MD	Ok
4	VY0228SBS01	VY0228SBS01	VY021377.D	28 Feb 2025 11:32		SY/MD	Ok,M
5	VY0228SBSD01	VY0228SBSD01	VY021378.D	28 Feb 2025 11:55		SY/MD	Ok,M
6	Q1421-07RE	P001-CLAY-CF01-02RE	VY021379.D	28 Feb 2025 12:56	Vial-B Internal Standard Fail; Not match for comp.#16	SY/MD	Confirms
7	Q1422-01RE	B-154-SB01RE	VY021380.D	28 Feb 2025 13:20	Vial-B Internal Standard Fail	SY/MD	Confirms
8	Q1422-02	B-154-SB02	VY021381.D	28 Feb 2025 15:31	Vial-B	SY/MD	Ok
9	Q1448-01	PSP1	VY021382.D	28 Feb 2025 15:55	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
10	Q1448-02	P1	VY021383.D	28 Feb 2025 16:18	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
11	Q1448-03	P2	VY021384.D	28 Feb 2025 16:41	Vial-B CCAL failed low for comp. #11	SY/MD	ReRun
12	Q1448-05	P4	VY021385.D	28 Feb 2025 17:05	Vial-B CCAL failed low for comp. #11; CCAL failed high for comp. #16	SY/MD	ReRun
13	Q1440-01	OR-02-022625	VY021386.D	28 Feb 2025 17:28	Vial-B	SY/MD	Ok
14	Q1441-01	HD-02-022625	VY021387.D	28 Feb 2025 17:52	Vial-B Internal Standard Fail	SY/MD	ReRun
15	Q1458-02	SP-SOIL-VOC	VY021388.D	28 Feb 2025 18:15	vial-A	SY/MD	Ok,M
16	Q1463-01	T1	VY021389.D	28 Feb 2025 18:38	Vial-A CCAL failed low for comp. #11	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022825

Review By	John Carlone	Review On	3/3/2025 12:12:17 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/3/2025 1:51:10 PM		
SubDirectory	VY022825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133182
Initial Calibration Stds	
CCC	VP133183,VP133184
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1457-01	HR-0-02272025	VY021390.D	28 Feb 2025 19:02	Vial-A	SY/MD	Ok
18	Q1463-03	T3	VY021391.D	28 Feb 2025 19:25	Vial-A Internal Standard Fail; CCAL failed low for comp. #11; CCAL failed high for comp.#16	SY/MD	ReRun
19	Q1463-04	T4	VY021392.D	28 Feb 2025 19:49	Vial-A CCAL failed low for comp. #11	SY/MD	ReRun
20	Q1463-05	T5	VY021393.D	28 Feb 2025 20:12	Vial-A Internal Standard Fail; CCAL failed low for comp. #11; CCAL failed high for comp.#16	SY/MD	ReRun
21	VSTDCCC050	VSTDCCC050EC	VY021394.D	28 Feb 2025 20:35		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/27/25	
Q1422-01RE	**B-154-SB01RE**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/28/25	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25**			**02/25/25**
			VOC-TCLVOA-10	8260D			02/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-154-SB01**								
Q1422-01	B-154-SB01	SOIL	1,3-Benzenedicarboxylic acid, bis	*	1,300.000	J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	Benzophenone	*	190.000	J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	n-Hexadecanoic acid	*	900.000	J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	Octadecanoic acid	*	450.000	J	0	0	ug/Kg
Q1422-01	B-154-SB01	SOIL	Pentafluoropropionic acid, pentad	*	140.000	J	0	0	ug/Kg
			Total Tics :		**2,980.00**				
			Total Concentration:		**2,980.00**				
Client ID :	**B-154-SB02**								
Q1422-02	B-154-SB02	SOIL	1-Tricosene	*	91.000	J	0	0	ug/Kg
Q1422-02	B-154-SB02	SOIL	Benzophenone	*	84.200	J	0	0	ug/Kg
			Total Tics :		**175.20**				
			Total Concentration:		**175.20**				

SAMPLE DATA

Raw Data: **BF141783.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
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
BF141783.D	1	02/26/25 08:35	02/26/25 15:29	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	370	ug/Kg
108-95-2	Phenol	93.7	U	93.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.6	U	94.6	190	ug/Kg
95-57-8	2-Chlorophenol	94.4	U	94.4	190	ug/Kg
95-48-7	2-Methylphenol	91.1	U	91.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	98.2	U	98.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	90.2	U	90.2	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.6	U	45.6	90.4	ug/Kg
67-72-1	Hexachloroethane	93.8	U	93.8	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	95.6	U	95.6	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	97.0	U	97.0	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.4	U	85.4	190	ug/Kg
91-20-3	Naphthalene	93.4	U	93.4	190	ug/Kg
106-47-8	4-Chloroaniline	93.4	UQ	93.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	94.2	U	94.2	190	ug/Kg
105-60-2	Caprolactam	98.1	U	98.1	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.6	U	87.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.3	U	93.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.7	U	80.7	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.7	U	83.7	190	ug/Kg
92-52-4	1,1-Biphenyl	98.8	U	98.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	94.2	U	94.2	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	92.4	U	92.4	190	ug/Kg

Raw Data: **BF141783.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
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
BF141783.D	1	02/26/25 08:35	02/26/25 15:29	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.8	U	97.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	94.1	U	94.1	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	91.7	U	91.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	95.4	U	95.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.4	U	97.4	190	ug/Kg
84-66-2	Diethylphthalate	90.6	U	90.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.8	U	96.8	190	ug/Kg
86-73-7	Fluorene	96.7	U	96.7	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.2	U	92.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	89.2	U	89.2	190	ug/Kg
118-74-1	Hexachlorobenzene	96.1	U	96.1	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	87.4	U	87.4	370	ug/Kg
85-01-8	Phenanthrene	95.0	U	95.0	190	ug/Kg
120-12-7	Anthracene	95.4	U	95.4	190	ug/Kg
86-74-8	Carbazole	90.8	U	90.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.3	U	95.3	190	ug/Kg
206-44-0	Fluoranthene	92.4	U	92.4	190	ug/Kg
129-00-0	Pyrene	93.8	U	93.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.2	U	91.2	190	ug/Kg
218-01-9	Chrysene	89.9	U	89.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.7	U	91.7	190	ug/Kg

Raw Data: **BF141783.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
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
BF141783.D	1	02/26/25 08:35	02/26/25 15:29	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.4	U	93.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.3	U	88.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.8	U	91.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.6	U	90.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	98.1	U	98.1	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.4	U	84.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.6		30 (18) - 130 (112)	64%	SPK: 150
13127-88-3	Phenol-d6	96.3		30 (15) - 130 (107)	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.5		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.1		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.4		30 (10) - 130 (116)	61%	SPK: 150
1718-51-0	Terphenyl-d14	60.7		30 (10) - 130 (105)	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72300	6.781			
1146-65-2	Naphthalene-d8	293000	8.063			
15067-26-2	Acenaphthene-d10	159000	9.81			
1517-22-2	Phenanthrene-d10	283000	11.298			
1719-03-5	Chrysene-d12	229000	13.939			
1520-96-3	Perylene-d12	192000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	190	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	900	J		11.8	ug/Kg
000057-11-4	Octadecanoic acid	450	J		12.6	ug/Kg
000137-89-3	1,3-Benzenedicarboxylic acid, bis(	1300	J		13.1	ug/Kg
959092-08-1	Pentafluoropropionic acid, pentade	140	J		13.8	ug/Kg

Raw Data: **BF141783.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
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
BF141783.D	1	02/26/25 08:35	02/26/25 15:29	PB166870

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: **BF141786.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.3
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
BF141786.D	1	02/26/25 08:35	02/26/25 16:57	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	94.7	U	94.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	95.7	U	95.7	190	ug/Kg
95-57-8	2-Chlorophenol	95.4	U	95.4	190	ug/Kg
95-48-7	2-Methylphenol	92.1	U	92.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	99.3	U	99.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	91.2	U	91.2	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.1	U	46.1	91.4	ug/Kg
67-72-1	Hexachloroethane	94.9	U	94.9	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	96.7	U	96.7	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	98.1	U	98.1	190	ug/Kg
120-83-2	2,4-Dichlorophenol	86.3	U	86.3	190	ug/Kg
91-20-3	Naphthalene	94.4	U	94.4	190	ug/Kg
106-47-8	4-Chloroaniline	94.4	UQ	94.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	95.2	U	95.2	190	ug/Kg
105-60-2	Caprolactam	99.2	U	99.2	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	88.6	U	88.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	94.3	U	94.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	81.6	U	81.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	84.6	U	84.6	190	ug/Kg
92-52-4	1,1-Biphenyl	99.9	U	99.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	95.2	U	95.2	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	93.4	U	93.4	190	ug/Kg

Raw Data: **BF141786.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.3
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
BF141786.D	1	02/26/25 08:35	02/26/25 16:57	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	98.9	U	98.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	95.1	U	95.1	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	92.7	U	92.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	96.5	U	96.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	98.5	U	98.5	190	ug/Kg
84-66-2	Diethylphthalate	91.5	U	91.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	97.8	U	97.8	190	ug/Kg
86-73-7	Fluorene	97.7	U	97.7	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.3	U	93.3	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	90.2	U	90.2	190	ug/Kg
118-74-1	Hexachlorobenzene	97.1	U	97.1	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	88.3	U	88.3	380	ug/Kg
85-01-8	Phenanthrene	96.0	U	96.0	190	ug/Kg
120-12-7	Anthracene	96.5	U	96.5	190	ug/Kg
86-74-8	Carbazole	91.8	U	91.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	96.3	U	96.3	190	ug/Kg
206-44-0	Fluoranthene	93.4	U	93.4	190	ug/Kg
129-00-0	Pyrene	94.9	U	94.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	92.2	U	92.2	190	ug/Kg
218-01-9	Chrysene	90.9	U	90.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	92.7	U	92.7	190	ug/Kg

Raw Data: **BF141786.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.3
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
BF141786.D	1	02/26/25 08:35	02/26/25 16:57	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	94.4	U	94.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	89.3	U	89.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	92.8	U	92.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	91.5	U	91.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	99.2	U	99.2	190	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	85.4	U	85.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	52.5		30 (18) - 130 (112)	35%	SPK: 150
13127-88-3	Phenol-d6	53.9		30 (15) - 130 (107)	36%	SPK: 150
4165-60-0	Nitrobenzene-d5	32.5		30 (18) - 130 (107)	33%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.6		30 (20) - 130 (109)	37%	SPK: 100
118-79-6	2,4,6-Tribromophenol	49.1		30 (10) - 130 (116)	33%	SPK: 150
1718-51-0	Terphenyl-d14	36.7		30 (10) - 130 (105)	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73100	6.781			
1146-65-2	Naphthalene-d8	295000	8.063			
15067-26-2	Acenaphthene-d10	161000	9.816			
1517-22-2	Phenanthrene-d10	288000	11.298			
1719-03-5	Chrysene-d12	231000	13.939			
1520-96-3	Perylene-d12	187000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	84.2	J		10.5	ug/Kg
018835-32-0	1-Tricosene	91.0	J		13.8	ug/Kg

Raw Data: **BF141786.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	87.3
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
BF141786.D	1	02/26/25 08:35	02/26/25 16:57	PB166870

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

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166870BL	PB166870BL	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	133	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	89.2	89		30 (18)	130 (107)
		2-Fluorobiphenyl	100	96.4	96		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	99.9	100		30 (10)	130 (105)
PB166870BS	PB166870BS	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	119	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	84.3	84		30 (18)	130 (107)
		2-Fluorobiphenyl	100	88.7	89		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	132	88		30 (10)	130 (116)
		Terphenyl-d14	100	102	102		30 (10)	130 (105)
Q1422-01	B-154-SB01	2-Fluorophenol	150	96.6	64		30 (18)	130 (112)
		Phenol-d6	150	96.3	64		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.5	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.1	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	91.4	61		30 (10)	130 (116)
		Terphenyl-d14	100	60.7	61		30 (10)	130 (105)
Q1422-01MS	B-154-SB01MS	2-Fluorophenol	150	90.9	61		30 (18)	130 (112)
		Phenol-d6	150	87.7	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	58.1	58		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.6	60		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	92.0	61		30 (10)	130 (116)
		Terphenyl-d14	100	64.2	64		30 (10)	130 (105)
Q1422-01MSD	B-154-SB01MSD	2-Fluorophenol	150	88.8	59		30 (18)	130 (112)
		Phenol-d6	150	86.3	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	56.9	57		30 (18)	130 (107)
		2-Fluorobiphenyl	100	57.6	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	89.0	59		30 (10)	130 (116)
		Terphenyl-d14	100	61.6	62		30 (10)	130 (105)
Q1422-02	B-154-SB02	2-Fluorophenol	150	52.5	35		30 (18)	130 (112)
		Phenol-d6	150	53.9	36		30 (15)	130 (107)
		Nitrobenzene-d5	100	32.5	33		30 (18)	130 (107)
		2-Fluorobiphenyl	100	36.6	37		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	49.1	33		30 (10)	130 (116)
		Terphenyl-d14	100	36.7	37		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
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.: Q1422

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: Q1422-01MS		**Client Sample ID: B-154-SB01MS**						**DataFile: BF141784.D**			
Benzaldehyde	1900	0	980	ug/Kg	52				20 (10)	160 (86)	
Phenol	1900	0	1600	ug/Kg	84				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84				70 (54)	130 (125)	
2-Chlorophenol	1900	0	1600	ug/Kg	84				70 (79)	130 (107)	
2-Methylphenol	1900	0	1600	ug/Kg	84				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74				70 (65)	130 (110)	
Acetophenone	1900	0	1700	ug/Kg	89				70 (75)	130 (111)	
3+4-Methylphenols	1900	0	1700	ug/Kg	89				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84				70 (59)	130 (119)	
Hexachloroethane	1900	0	1600	ug/Kg	84				20 (65)	160 (117)	
Nitrobenzene	1900	0	1500	ug/Kg	79				70 (70)	130 (119)	
Isophorone	1900	0	1600	ug/Kg	84				70 (76)	130 (122)	
2-Nitrophenol	1900	0	1600	ug/Kg	84				70 (54)	130 (145)	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1900	0	1600	ug/Kg	84				70 (68)	130 (112)	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				70 (72)	130 (118)	
Naphthalene	1900	0	1500	ug/Kg	79				70 (72)	130 (110)	
4-Chloroaniline	1900	0	490	ug/Kg	26	*			70 (10)	130 (91)	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				70 (66)	130 (114)	
Caprolactam	1900	0	1800	ug/Kg	95				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1900	0	1500	ug/Kg	79				70 (57)	130 (132)	
2-Methylnaphthalene	1900	0	1500	ug/Kg	79				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3800	0	4100	ug/Kg	108				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1900	0	1600	ug/Kg	84				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84				70 (72)	130 (117)	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				70 (75)	130 (113)	
2-Chloronaphthalene	1900	0	1600	ug/Kg	84				70 (67)	130 (118)	
2-Nitroaniline	1900	0	1500	ug/Kg	79				70 (69)	130 (127)	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70 (70)	130 (113)	
Acenaphthylene	1900	0	1700	ug/Kg	89				70 (79)	130 (118)	
2,6-Dinitrotoluene	1900	0	1700	ug/Kg	89				70 (70)	130 (125)	
3-Nitroaniline	1900	0	940	ug/Kg	49	*			70 (30)	130 (99)	
Acenaphthene	1900	0	1500	ug/Kg	79				70 (70)	130 (121)	
2,4-Dinitrophenol	3800	0	2400	ug/Kg	63				20 (10)	160 (155)	
4-Nitrophenol	3800	0	2900	ug/Kg	76				20 (45)	160 (133)	
Dibenzofuran	1900	0	1500	ug/Kg	79				70 (72)	130 (110)	
2,4-Dinitrotoluene	1900	0	1600	ug/Kg	84				70 (55)	130 (128)	
Diethylphthalate	1900	0	1600	ug/Kg	84				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84				70 (71)	130 (108)	
Fluorene	1900	0	1600	ug/Kg	84				70 (68)	130 (116)	
4-Nitroaniline	1900	0	1600	ug/Kg	84				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1900	0	1400	ug/Kg	74				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1900	0	1600	ug/Kg	84				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1900	0	1600	ug/Kg	84				70 (65)	130 (121)	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
Atrazine	1900	0	2100	ug/Kg	111				70 (79)	130 (127)	

( ) = 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.: Q1422

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
Pentachlorophenol	3800	0	2500	ug/Kg	66				20 (47)	160 (128)	
Phenanthrene	1900	0	1600	ug/Kg	84				70 (52)	130 (128)	
Anthracene	1900	0	1700	ug/Kg	89				70 (62)	130 (124)	
Carbazole	1900	0	1600	ug/Kg	84				70 (59)	130 (119)	
Di-n-butylphthalate	1900	0	1700	ug/Kg	89				70 (69)	130 (118)	
Fluoranthene	1900	0	1600	ug/Kg	84				70 (44)	130 (125)	
Pyrene	1900	0	1600	ug/Kg	84				70 (26)	130 (142)	
Butylbenzylphthalate	1900	0	1800	ug/Kg	95				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1900	0	1200	ug/Kg	63	*			70 (33)	130 (116)	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				70 (71)	130 (114)	
Chrysene	1900	0	1600	ug/Kg	84				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1900	0	2100	ug/Kg	111				70 (42)	130 (169)	
Di-n-octyl phthalate	1900	0	2100	ug/Kg	111				70 (23)	130 (175)	
Benzo(b)fluoranthene	1900	0	1400	ug/Kg	74				70 (67)	130 (121)	
Benzo(k)fluoranthene	1900	0	1400	ug/Kg	74				70 (57)	130 (134)	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1900	0	1800	ug/Kg	95				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1900	0	1800	ug/Kg	95				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1900	0	1700	ug/Kg	89				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				70 (69)	130 (124)	
1,4-Dioxane	1900	0	1600	ug/Kg	84				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1900	0	1500	ug/Kg	79				70 (69)	130 (112)	

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
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.: Q1422

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: Q1422-01MSD		**Client Sample ID: B-154-SB01MSD**						**DataFile: BF141785.D**			
Benzaldehyde	1900	0	950	ug/Kg	50		4		20 (10)	160 (86)	30 (20)
Phenol	1900	0	1600	ug/Kg	84		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1900	0	1600	ug/Kg	84		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	1900	0	1600	ug/Kg	84		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74		0		70 (65)	130 (110)	30 (20)
Acetophenone	1900	0	1700	ug/Kg	89		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1900	0	1600	ug/Kg	84		6		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1900	0	1500	ug/Kg	79		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	1900	0	1500	ug/Kg	79		6		20 (65)	160 (117)	30 (20)
Nitrobenzene	1900	0	1500	ug/Kg	79		0		70 (70)	130 (119)	30 (20)
Isophorone	1900	0	1600	ug/Kg	84		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1900	0	1600	ug/Kg	84		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1900	0	1600	ug/Kg	84		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84		0		70 (72)	130 (118)	30 (20)
Naphthalene	1900	0	1500	ug/Kg	79		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1900	0	520	ug/Kg	27	*	4		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1900	0	1600	ug/Kg	84		0		70 (66)	130 (114)	30 (20)
Caprolactam	1900	0	1800	ug/Kg	95		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1900	0	1500	ug/Kg	79		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3800	0	3600	ug/Kg	95		13		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1900	0	1500	ug/Kg	79		6		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1900	0	1500	ug/Kg	79		6		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1900	0	1700	ug/Kg	89		7		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1900	0	1500	ug/Kg	79		6		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1900	0	1500	ug/Kg	79		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1900	0	1600	ug/Kg	84		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1900	0	1600	ug/Kg	84		6		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1900	0	1600	ug/Kg	84		6		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1900	0	900	ug/Kg	47	*	4		70 (30)	130 (99)	30 (20)
Acenaphthene	1900	0	1500	ug/Kg	79		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3800	0	2600	ug/Kg	68		8		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3800	0	2900	ug/Kg	76		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	1900	0	1500	ug/Kg	79		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1900	0	1600	ug/Kg	84		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	1900	0	1500	ug/Kg	79		6		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		0		70 (71)	130 (108)	30 (20)
Fluorene	1900	0	1600	ug/Kg	84		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1900	0	1500	ug/Kg	79		6		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1900	0	1400	ug/Kg	74		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1900	0	1600	ug/Kg	84		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1900	0	1600	ug/Kg	84		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1900	0	1600	ug/Kg	84		6		70 (67)	130 (118)	30 (20)
Atrazine	1900	0	2000	ug/Kg	105		6		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1422

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
Pentachlorophenol	3800	0	2500	ug/Kg	66		0		20 (47)	160 (128)	30 (20)
Phenanthrene	1900	0	1600	ug/Kg	84		0		70 (52)	130 (128)	30 (20)
Anthracene	1900	0	1700	ug/Kg	89		0		70 (62)	130 (124)	30 (20)
Carbazole	1900	0	1600	ug/Kg	84		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1900	0	1600	ug/Kg	84		6		70 (69)	130 (118)	30 (20)
Fluoranthene	1900	0	1600	ug/Kg	84		0		70 (44)	130 (125)	30 (20)
Pyrene	1900	0	1600	ug/Kg	84		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1900	0	1800	ug/Kg	95		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1900	0	1200	ug/Kg	63	*	0		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1900	0	1600	ug/Kg	84		6		70 (71)	130 (114)	30 (20)
Chrysene	1900	0	1600	ug/Kg	84		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1900	0	2100	ug/Kg	111		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1900	0	2000	ug/Kg	105		6		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1900	0	1400	ug/Kg	74		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1900	0	1700	ug/Kg	89		18		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1900	0	1600	ug/Kg	84		6		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1900	0	1800	ug/Kg	95		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1900	0	1800	ug/Kg	95		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1900	0	1600	ug/Kg	84		6		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1900	0	1700	ug/Kg	89		7		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1900	0	1600	ug/Kg	84		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1900	0	1400	ug/Kg	74		7		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141779.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166870BS	Benzaldehyde	1700	880	ug/Kg	52				20 (10)	160 (133)	
	Phenol	1700	1300	ug/Kg	76				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	2-Chlorophenol	1700	1400	ug/Kg	82				70 (65)	130 (112)	
	2-Methylphenol	1700	1400	ug/Kg	82				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1200	ug/Kg	71				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				70 (63)	130 (95)	
	Hexachloroethane	1700	1400	ug/Kg	82				20 (72)	160 (108)	
	Nitrobenzene	1700	1300	ug/Kg	76				70 (57)	130 (101)	
	Isophorone	1700	1500	ug/Kg	88				70 (59)	130 (99)	
	2-Nitrophenol	1700	1400	ug/Kg	82				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1800	ug/Kg	106				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	550	ug/Kg	32		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4000	ug/Kg	121				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1300	ug/Kg	76				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				70 (61)	130 (104)	
	3-Nitroaniline	1700	770	ug/Kg	45		*		70 (28)	130 (100)	
	Acenaphthene	1700	1400	ug/Kg	82				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				20 (37)	160 (128)	
	4-Nitrophenol	3300	2400	ug/Kg	73				20 (48)	160 (119)	
	Dibenzofuran	1700	1400	ug/Kg	82				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				70 (60)	130 (106)	
	Diethylphthalate	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				70 (58)	130 (98)	
	Fluorene	1700	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1400	ug/Kg	82				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1400	ug/Kg	82				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141779.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166870BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	1900	ug/Kg	112				70 (47)	130 (152)	
	Pentachlorophenol	3300	2300	ug/Kg	70				20 (67)	160 (105)	
	Phenanthrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Anthracene	1700	1500	ug/Kg	88				70 (61)	130 (105)	
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1400	ug/Kg	82				70 (57)	130 (107)	
	Pyrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	980	ug/Kg	58		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				70 (60)	130 (102)	
	Chrysene	1700	1400	ug/Kg	82				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1900	ug/Kg	112				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1900	ug/Kg	112				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				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	1600	ug/Kg	94				70 (53)	130 (101)	
	1,4-Dioxane	1700	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166870BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: BF141778.D Lab Sample ID: PB166870BL

Instrument ID: BNA_F Date Extracted: 02/26/2025

Matrix: (soil/water) SOIL Date Analyzed: 02/26/2025

Level: (low/med) LOW Time Analyzed: 12:56

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166870BS	PB166870BS	BF141779.D	02/26/2025
B-154-SB01	Q1422-01	BF141783.D	02/26/2025
B-154-SB01MS	Q1422-01MS	BF141784.D	02/26/2025
B-154-SB01MSD	Q1422-01MSD	BF141785.D	02/26/2025
B-154-SB02	Q1422-02	BF141786.D	02/26/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: BF141471.D DFTPP Injection Date: 02/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.0
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	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	12.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.4 (18.9) 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	BF141472.D	02/06/2025	11:07
SSTDICC005	SSTDICC005	BF141473.D	02/06/2025	11:34
SSTDICC010	SSTDICC010	BF141474.D	02/06/2025	12:00
SSTDICC020	SSTDICC020	BF141475.D	02/06/2025	12:26
SSTDICCC040	SSTDICCC040	BF141476.D	02/06/2025	12:55
SSTDICC050	SSTDICC050	BF141477.D	02/06/2025	13:21
SSTDICC060	SSTDICC060	BF141478.D	02/06/2025	13:47
SSTDICC080	SSTDICC080	BF141479.D	02/06/2025	14:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1422 SDG NO.: Q1422

Lab File ID: BF141774.D DFTPP Injection Date: 02/26/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	47.6
197	Less than 2.0% of mass 198	0.0
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	27.2
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.9) 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	BF141775.D	02/26/2025	10:45
PB166870BL	PB166870BL	BF141778.D	02/26/2025	12:56
PB166870BS	PB166870BS	BF141779.D	02/26/2025	13:26
B-154-SB01	Q1422-01	BF141783.D	02/26/2025	15:29
B-154-SB01MS	Q1422-01MS	BF141784.D	02/26/2025	15:59
B-154-SB01MSD	Q1422-01MSD	BF141785.D	02/26/2025	16:28
B-154-SB02	Q1422-02	BF141786.D	02/26/2025	16:57

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	85384	6.781	345346	8.06	188350	9.82
	UPPER LIMIT	170768	7.281	690692	8.563	376700	10.316
	LOWER LIMIT	42692	6.281	172673	7.563	94175	9.316
	EPA SAMPLE NO.						
01	PB166870BL	79623	6.78	323428	8.06	175903	9.82
02	PB166870BS	85071	6.78	333608	8.06	184169	9.82
03	B-154-SB01	72268	6.78	292697	8.06	159017	9.81
04	B-154-SB01MS	79854	6.78	322962	8.06	177311	9.82
05	B-154-SB01MSD	75036	6.78	298435	8.06	168527	9.82
06	B-154-SB02	73149	6.78	294675	8.06	161129	9.82

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.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	315416	11.304	190171	13.945	189428	15.392
	UPPER LIMIT	630832	11.804	380342	14.445	378856	15.892
	LOWER LIMIT	157708	10.804	95085.5	13.445	94714	14.892
	EPA SAMPLE NO.						
01	PB166870BL	313562	11.30	221568	13.95	172653	15.39
02	PB166870BS	318764	11.30	204697	13.95	183683	15.39
03	B-154-SB01	283246	11.30	228691	13.94	192278	15.39
04	B-154-SB01MS	312658	11.30	214920	13.95	184312	15.39
05	B-154-SB01MSD	293184	11.30	207473	13.95	181155	15.39
06	B-154-SB02	287751	11.30	231209	13.94	186877	15.39

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.

QC SAMPLE DATA

Raw Data: **BF141778.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:	PB166870BL	SDG No.:	Q1422
Lab Sample ID:	PB166870BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 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
BF141778.D	1	02/26/25 08:35	02/26/25 12:56	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

Raw Data: **BF141778.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:	PB166870BL	SDG No.:	Q1422
Lab Sample ID:	PB166870BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 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
BF141778.D	1	02/26/25 08:35	02/26/25 12:56	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg

Raw Data: **BF141778.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:	PB166870BL			SDG No.:	Q1422
Lab Sample ID:	PB166870BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	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
BF141778.D	1	02/26/25 08:35	02/26/25 12:56	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	133		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.2		30 (18) - 130 (107)	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.4		30 (20) - 130 (109)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	99.9		30 (10) - 130 (105)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	79600	6.781			
1146-65-2	Naphthalene-d8	323000	8.063			
15067-26-2	Acenaphthene-d10	176000	9.816			
1517-22-2	Phenanthrene-d10	314000	11.304			
1719-03-5	Chrysene-d12	222000	13.945			
1520-96-3	Perylene-d12	173000	15.392			

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: **BF141779.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:	PB166870BS	SDG No.:	Q1422
Lab Sample ID:	PB166870BS	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
BF141779.D	1	02/26/25 08:35	02/26/25 13:26	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	880		180	330	ug/Kg
108-95-2	Phenol	1300		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1200		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1300		90.7	170	ug/Kg
78-59-1	Isophorone	1500		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1400		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	550		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1300		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.6	170	ug/Kg

Raw Data: **BF141779.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:	PB166870BS	SDG No.:	Q1422
Lab Sample ID:	PB166870BS	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
BF141779.D	1	02/26/25 08:35	02/26/25 13:26	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	770		89.1	170	ug/Kg
83-32-9	Acenaphthene	1400		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2800	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	2400		120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1400		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	1900		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	2300		77.2	330	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1500		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.2	170	ug/Kg
206-44-0	Fluoranthene	1400		81.6	170	ug/Kg
129-00-0	Pyrene	1500		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	980		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.6	170	ug/Kg
218-01-9	Chrysene	1400		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		81.0	170	ug/Kg

Raw Data: **BF141779.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:	PB166870BS	SDG No.:	Q1422
Lab Sample ID:	PB166870BS	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
BF141779.D	1	02/26/25 08:35	02/26/25 13:26	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.3		30 (18) - 130 (107)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.7		30 (20) - 130 (109)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		30 (10) - 130 (116)	88%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (10) - 130 (105)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	85100	6.781			
1146-65-2	Naphthalene-d8	334000	8.063			
15067-26-2	Acenaphthene-d10	184000	9.816			
1517-22-2	Phenanthrene-d10	319000	11.304			
1719-03-5	Chrysene-d12	205000	13.945			
1520-96-3	Perylene-d12	184000	15.386			

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: **BF141784.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01MS	SDG No.:	Q1422
Lab Sample ID:	Q1422-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	30.06 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
BF141784.D	1	02/26/25 08:35	02/26/25 15:59	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	980		210	370	ug/Kg
108-95-2	Phenol	1600		93.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.5	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.3	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.0	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.1	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		90.1	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		45.5	90.3	ug/Kg
67-72-1	Hexachloroethane	1600		93.7	190	ug/Kg
98-95-3	Nitrobenzene	1500		100	190	ug/Kg
78-59-1	Isophorone	1600		95.5	190	ug/Kg
88-75-5	2-Nitrophenol	1600		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		96.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.2	190	ug/Kg
91-20-3	Naphthalene	1500		93.3	190	ug/Kg
106-47-8	4-Chloroaniline	490		93.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.0	190	ug/Kg
105-60-2	Caprolactam	1800		98.0	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		87.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.1	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4100	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		80.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		83.5	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		98.7	190	ug/Kg
91-58-7	2-Chloronaphthalene	1600		94.0	190	ug/Kg
88-74-4	2-Nitroaniline	1500		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.2	190	ug/Kg

Raw Data: **BF141784.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01MS	SDG No.:	Q1422
Lab Sample ID:	Q1422-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	30.06 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
BF141784.D	1	02/26/25 08:35	02/26/25 15:59	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		97.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		93.9	190	ug/Kg
99-09-2	3-Nitroaniline	940		100	190	ug/Kg
83-32-9	Acenaphthene	1500		91.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2400		270	370	ug/Kg
100-02-7	4-Nitrophenol	2900		130	370	ug/Kg
132-64-9	Dibenzofuran	1500		95.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		97.3	190	ug/Kg
84-66-2	Diethylphthalate	1600		90.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		96.6	190	ug/Kg
86-73-7	Fluorene	1600		96.5	190	ug/Kg
100-01-6	4-Nitroaniline	1600		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		92.1	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		89.1	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.0	190	ug/Kg
1912-24-9	Atrazine	2100		100	190	ug/Kg
87-86-5	Pentachlorophenol	2500		87.3	370	ug/Kg
85-01-8	Phenanthrene	1600		94.8	190	ug/Kg
120-12-7	Anthracene	1700		95.3	190	ug/Kg
86-74-8	Carbazole	1600		90.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	1700		95.2	190	ug/Kg
206-44-0	Fluoranthene	1600		92.2	190	ug/Kg
129-00-0	Pyrene	1600		93.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	1800		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.1	190	ug/Kg
218-01-9	Chrysene	1600		89.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		91.6	190	ug/Kg

Raw Data: **BF141784.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01MS	SDG No.:	Q1422
Lab Sample ID:	Q1422-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
Sample Wt/Vol:	30.06 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
BF141784.D	1	02/26/25 08:35	02/26/25 15:59	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		93.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		88.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		91.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		90.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		98.0	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		84.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.9		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	87.7		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.1		30 (18) - 130 (107)	58%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.6		30 (20) - 130 (109)	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.0		30 (10) - 130 (116)	61%	SPK: 150
1718-51-0	Terphenyl-d14	64.2		30 (10) - 130 (105)	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	79900	6.781			
1146-65-2	Naphthalene-d8	323000	8.063			
15067-26-2	Acenaphthene-d10	177000	9.816			
1517-22-2	Phenanthrene-d10	313000	11.304			
1719-03-5	Chrysene-d12	215000	13.945			
1520-96-3	Perylene-d12	184000	15.386			

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01MSD	SDG No.:	Q1422
Lab Sample ID:	Q1422-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
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
BF141785.D	1	02/26/25 08:35	02/26/25 16:28	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	950		210	370	ug/Kg
108-95-2	Phenol	1600		93.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.5	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.3	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.0	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.1	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.1	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		45.5	90.3	ug/Kg
67-72-1	Hexachloroethane	1500		93.7	190	ug/Kg
98-95-3	Nitrobenzene	1500		100	190	ug/Kg
78-59-1	Isophorone	1600		95.5	190	ug/Kg
88-75-5	2-Nitrophenol	1600		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		96.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.3	190	ug/Kg
91-20-3	Naphthalene	1500		93.3	190	ug/Kg
106-47-8	4-Chloroaniline	520		93.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.1	190	ug/Kg
105-60-2	Caprolactam	1800		98.0	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		87.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3600	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		80.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		83.6	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		98.7	190	ug/Kg
91-58-7	2-Chloronaphthalene	1500		94.1	190	ug/Kg
88-74-4	2-Nitroaniline	1500		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.3	190	ug/Kg

Raw Data: **BF141785.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01MSD	SDG No.:	Q1422
Lab Sample ID:	Q1422-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
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
BF141785.D	1	02/26/25 08:35	02/26/25 16:28	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		97.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		94.0	190	ug/Kg
99-09-2	3-Nitroaniline	900		100	190	ug/Kg
83-32-9	Acenaphthene	1500		91.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2600		270	370	ug/Kg
100-02-7	4-Nitrophenol	2900		130	370	ug/Kg
132-64-9	Dibenzofuran	1500		95.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		97.3	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		96.7	190	ug/Kg
86-73-7	Fluorene	1600		96.6	190	ug/Kg
100-01-6	4-Nitroaniline	1500		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		92.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		89.1	190	ug/Kg
118-74-1	Hexachlorobenzene	1600		96.0	190	ug/Kg
1912-24-9	Atrazine	2000		100	190	ug/Kg
87-86-5	Pentachlorophenol	2500		87.3	370	ug/Kg
85-01-8	Phenanthrene	1600		94.9	190	ug/Kg
120-12-7	Anthracene	1700		95.3	190	ug/Kg
86-74-8	Carbazole	1600		90.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	1600		95.2	190	ug/Kg
206-44-0	Fluoranthene	1600		92.3	190	ug/Kg
129-00-0	Pyrene	1600		93.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	1800		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1600		91.1	190	ug/Kg
218-01-9	Chrysene	1600		89.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		91.6	190	ug/Kg

Raw Data: **BF141785.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01MSD	SDG No.:	Q1422
Lab Sample ID:	Q1422-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.4
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
BF141785.D	1	02/26/25 08:35	02/26/25 16:28	PB166870

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		93.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	1600		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		88.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		91.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		90.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		98.0	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		84.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.8		30 (18) - 130 (112)	59%	SPK: 150
13127-88-3	Phenol-d6	86.3		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.9		30 (18) - 130 (107)	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.6		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.0		30 (10) - 130 (116)	59%	SPK: 150
1718-51-0	Terphenyl-d14	61.6		30 (10) - 130 (105)	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75000	6.781			
1146-65-2	Naphthalene-d8	298000	8.063			
15067-26-2	Acenaphthene-d10	169000	9.816			
1517-22-2	Phenanthrene-d10	293000	11.304			
1719-03-5	Chrysene-d12	207000	13.945			
1520-96-3	Perylene-d12	181000	15.386			

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_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141472.D 5 =BF141473.D 10 =BF141474.D 20 =BF141475.D 40 =BF141476.D 50 =BF141477.D 60 =BF141478.D 80 =BF1414
79.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.511	0.519	0.523	0.517	0.502	0.521	0.501	0.513	1.73
3)		Pyridine		1.053	1.205	1.311	1.263	1.256	1.261	1.204	1.222	6.79
4)		n-Nitrosodimet...		0.737	0.774	0.820	0.818	0.835	0.846	0.833	0.809	4.83
5)	S	2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.264	1.214	1.276	3.77
6)		Aniline		1.476	1.545	1.650	1.538	1.506	1.494	1.379	1.513	5.42
7)	S	Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.585	1.538	1.612	3.13
8)		2-Chlorophenol		1.399	1.410	1.446	1.379	1.368	1.345	1.302	1.378	3.38
9)		Benzaldehyde		0.892	0.993	0.981	0.821	0.747	0.706		0.857	13.92
10)	C	Phenol		1.693	1.681	1.817	1.685	1.659	1.644	1.569	1.678	4.42
11)		bis(2-Chloroet...		1.262	1.229	1.296	1.266	1.252	1.262	1.256	1.261	1.59
12)		1,3-Dichlorobe...		1.473	1.482	1.554	1.441	1.441	1.430	1.366	1.455	3.95
13)	C	1,4-Dichlorobe...		1.546	1.538	1.571	1.471	1.465	1.439	1.379	1.487	4.59
14)		1,2-Dichlorobe...		1.393	1.439	1.473	1.374	1.351	1.345	1.285	1.380	4.55
15)		Benzyl Alcohol		1.191	1.251	1.322	1.262	1.248	1.218	1.163	1.236	4.19
16)		2,2'-oxybis(1-...		2.222	2.245	2.313	2.165	2.119	2.082	1.959	2.158	5.45
17)		2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.066	1.024	1.079	3.15
18)		Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.544	0.526	0.550	3.59
19)	P	n-Nitroso-di-n...	0.950	0.978	0.985	1.039	0.969	0.947	0.941	0.907	0.964	4.03
20)		3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.319	1.244	1.371	5.52
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.517	0.502	0.521	0.493	0.483	0.488	0.478	0.498	3.35
23)	S	Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.381	0.384	0.383	1.58
24)		Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.375	0.376	0.374	1.29
25)		Isophorone		0.611	0.594	0.633	0.611	0.601	0.617	0.614	0.611	2.04
26)	C	2-Nitrophenol		0.171	0.175	0.190	0.193	0.190	0.193	0.191	0.186	4.91
27)		2,4-Dimethylph...		0.208	0.212	0.221	0.223	0.218	0.220	0.220	0.217	2.46
28)		bis(2-Chloroet...		0.384	0.390	0.408	0.394	0.387	0.391	0.388	0.392	2.03
29)	C	2,4-Dichloroph...		0.286	0.287	0.312	0.296	0.290	0.292	0.292	0.294	2.95
30)		1,2,4-Trichlor...		0.327	0.321	0.331	0.317	0.312	0.317	0.314	0.320	2.12
31)		Naphthalene		1.067	1.041	1.096	1.037	1.012	1.022	1.012	1.041	2.98
32)		Benzoic acid			0.186	0.217	0.229	0.233	0.243	0.246	0.226	9.70
33)		4-Chloroaniline		0.354	0.352	0.382	0.364	0.360	0.364	0.370	0.363	2.82
34)	C	Hexachlorobuta...		0.193	0.191	0.200	0.192	0.188	0.191	0.189	0.192	2.01
35)		Caprolactam		0.083	0.085	0.094	0.093	0.088	0.091	0.092	0.089	4.75
36)	C	4-Chloro-3-met...		0.310	0.324	0.342	0.329	0.324	0.325	0.324	0.325	2.91
37)		2-Methylnaphth...		0.688	0.689	0.719	0.669	0.659	0.666	0.652	0.677	3.42
38)		1-Methylnaphth...		0.680	0.657	0.691	0.656	0.637	0.640	0.631	0.656	3.40

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.582	0.588	0.600	0.584	0.560	0.574	0.562	0.579	2.50
41)	P	Hexachlorocycl...		0.138	0.180	0.204	0.205	0.214	0.214	0.192	15.36
42)	S	2,4,6-Tribromo...	0.201	0.200	0.210	0.200	0.199	0.201	0.196	0.201	2.08
43)	C	2,4,6-Trichlor...	0.364	0.365	0.389	0.377	0.373	0.378	0.372	0.374	2.28
44)		2,4,5-Trichlor...	0.385	0.407	0.430	0.410	0.394	0.409	0.401	0.405	3.51
45)	S	2-Fluorobiphenyl	1.373	1.360	1.385	1.269	1.241	1.259	1.201	1.298	5.62
46)		1,1'-Biphenyl	1.582	1.564	1.632	1.545	1.517	1.537	1.478	1.551	3.16
47)		2-Chloronaphth...	1.167	1.161	1.211	1.135	1.114	1.136	1.103	1.147	3.18
48)		2-Nitroaniline	0.371	0.371	0.394	0.390	0.382	0.401	0.385	0.385	2.92
49)		Acenaphthylene	1.739	1.736	1.791	1.696	1.660	1.689	1.626	1.705	3.21
50)		Dimethylphthalate	1.382	1.359	1.408	1.345	1.324	1.341	1.345	1.358	2.09
51)		2,6-Dinitrotol...	0.289	0.290	0.314	0.301	0.295	0.299	0.290	0.297	3.06
52)	C	Acenaphthene	1.186	1.164	1.188	1.152	1.108	1.127	1.101	1.147	3.10
53)		3-Nitroaniline	0.312	0.313	0.335	0.319	0.320	0.321	0.316	0.319	2.35
54)	P	2,4-Dinitrophenol		0.133	0.167	0.177	0.185	0.198	0.198	0.176	13.83
55)		Dibenzofuran	1.768	1.722	1.774	1.673	1.633	1.634	1.576	1.683	4.44
56)	P	4-Nitrophenol	0.190	0.216	0.247	0.249	0.249	0.257	0.251	0.237	10.43
57)		2,4-Dinitrotol...	0.383	0.403	0.414	0.398	0.390	0.396	0.383	0.395	2.83
58)		Fluorene	1.359	1.361	1.377	1.290	1.239	1.263	1.221	1.301	4.90
59)		2,3,4,6-Tetrac...	0.332	0.361	0.359	0.348	0.348	0.355	0.340	0.349	2.95
60)		Diethylphthalate	1.400	1.346	1.398	1.330	1.300	1.308	1.269	1.336	3.71
61)		4-Chlorophenyl...	0.661	0.643	0.659	0.622	0.602	0.611	0.585	0.626	4.66
62)		4-Nitroaniline	0.315	0.319	0.333	0.335	0.319	0.327	0.324	0.324	2.28
63)		Azobenzene	1.348	1.329	1.385	1.326	1.295	1.320	1.294	1.328	2.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.116	0.140	0.142	0.142	0.146	0.148	0.139	8.48
66)	c	n-Nitrosodiphe...	0.650	0.653	0.674	0.627	0.625	0.625	0.627	0.640	2.97
67)		4-Bromophenyl-...	0.228	0.220	0.234	0.221	0.220	0.221	0.221	0.224	2.46
68)		Hexachlorobenzene	0.229	0.234	0.241	0.227	0.224	0.228	0.228	0.230	2.46
69)		Atrazine	0.200	0.203	0.214	0.185	0.185	0.182	0.176	0.192	7.12
70)	C	Pentachlorophenol	0.116	0.131	0.151	0.154	0.158	0.159	0.160	0.147	11.68
71)		Phenanthrene	1.141	1.132	1.161	1.084	1.071	1.069	1.049	1.101	3.91
72)		Anthracene	1.168	1.126	1.158	1.082	1.084	1.071	1.057	1.107	3.99
73)		Carbazole	1.022	1.026	1.076	0.986	0.966	0.961	0.933	0.996	4.87
74)		Di-n-butylphth...	1.165	1.156	1.223	1.141	1.132	1.126	1.105	1.150	3.29
75)	C	Fluoranthene	1.251	1.239	1.243	1.151	1.129	1.091	1.065	1.167	6.63
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.474	0.487	0.334	0.528	0.432	0.351	0.481	0.441	16.58
78)		Pyrene	1.528	1.557	1.717	1.745	1.774	1.807	1.789	1.703	6.67
79)	S	Terphenyl-d14	1.129	1.104	1.211	1.198	1.209	1.234	1.208	1.185	4.07
80)		Butylbenzylpht...	0.525	0.540	0.605	0.609	0.603	0.623	0.624	0.590	6.83
81)		Benzo(a)anthra...	1.381	1.332	1.350	1.345	1.309	1.309	1.279	1.329	2.51
82)		3,3'-Dichlorob...	0.397	0.411	0.407	0.377	0.363	0.353	0.358	0.381	6.31
83)		Chrysene	1.187	1.223	1.314	1.201	1.215	1.224	1.229	1.228	3.34
84)		Bis(2-ethylhex...	0.593	0.610	0.685	0.689	0.680	0.697	0.702	0.665	6.68
85)	c	Di-n-octyl pht...	0.802	0.814	0.910	0.965	1.010	1.051	1.090	0.949	11.82

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.987	1.029	1.186	1.288	1.341	1.410	1.408	1.236	14.06
88)		Benzo(b)fluora...	1.286	1.407	1.398	1.336	1.350	1.356	1.268	1.343	3.88
89)		Benzo(k)fluora...	1.113	1.216	1.247	1.142	1.074	1.098	1.138	1.147	5.49
90)	C	Benzo(a)pyrene	1.085	1.074	1.115	1.080	1.069	1.094	1.089	1.087	1.41
91)		Dibenzo(a,h)an...	0.796	0.828	0.970	1.051	1.092	1.138	1.134	1.001	14.13
92)		Benzo(g,h,i)pe...	0.805	0.864	1.001	1.100	1.144	1.203	1.218	1.048	15.60

(#) = 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.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.366		7.1	
Benzaldehyde	0.857	0.907		5.8	
Phenol-d6	1.612	1.663		3.2	
Phenol	1.678	1.722		2.6	20.0
bis(2-Chloroethyl)ether	1.261	1.285		1.9	
2-Chlorophenol	1.378	1.467		6.5	
2-Methylphenol	1.079	1.099		1.9	
2,2-oxybis(1-Chloropropane)	2.158	2.011		-6.8	
Acetophenone	0.498	0.499		0.2	
3+4-Methylphenols	1.371	1.432		4.4	
n-Nitroso-di-n-propylamine	0.964	0.977	0.050	1.3	
Nitrobenzene-d5	0.383	0.375		-2.1	
Hexachloroethane	0.550	0.572		4.0	
Nitrobenzene	0.374	0.361		-3.5	
Isophorone	0.611	0.607		-0.7	
2-Nitrophenol	0.186	0.196		5.4	20.0
2,4-Dimethylphenol	0.217	0.221		1.8	
bis(2-Chloroethoxy)methane	0.392	0.404		3.1	
2,4-Dichlorophenol	0.294	0.303		3.1	20.0
Naphthalene	1.041	1.050		0.9	
4-Chloroaniline	0.363	0.381		5.0	
Hexachlorobutadiene	0.192	0.196		2.1	20.0
Caprolactam	0.089	0.090		1.1	
4-Chloro-3-methylphenol	0.325	0.327		0.6	20.0
2-Methylnaphthalene	0.677	0.692		2.2	
Hexachlorocyclopentadiene	0.192	0.186	0.050	-3.1	
2,4,6-Trichlorophenol	0.374	0.378		1.1	20.0
2-Fluorobiphenyl	1.298	1.311		1.0	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.592		2.6	
2-Chloronaphthalene	1.147	1.179		2.8	
2-Nitroaniline	0.385	0.371		-3.6	
Dimethylphthalate	1.358	1.404		3.4	
Acenaphthylene	1.705	1.716		0.6	
2,6-Dinitrotoluene	0.297	0.311		4.7	
3-Nitroaniline	0.319	0.316		-0.9	
Acenaphthene	1.147	1.148		0.1	20.0
2,4-Dinitrophenol	0.176	0.165	0.050	-6.3	
4-Nitrophenol	0.237	0.220	0.050	-7.2	

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.683		0.0	
2,4-Dinitrotoluene	0.395	0.392		-0.8	
Diethylphthalate	1.336	1.362		1.9	
4-Chlorophenyl-phenylether	0.626	0.660		5.4	
Fluorene	1.301	1.325		1.8	
4-Nitroaniline	0.324	0.308		-4.9	
4,6-Dinitro-2-methylphenol	0.139	0.138		-0.7	
n-Nitrosodiphenylamine	0.640	0.669		4.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.224	0.239		6.7	
Hexachlorobenzene	0.230	0.248		7.8	
Atrazine	0.192	0.176		-8.3	
Pentachlorophenol	0.147	0.154		4.8	20.0
Phenanthrene	1.101	1.138		3.4	
Anthracene	1.107	1.135		2.5	
Carbazole	0.996	0.991		-0.5	
Di-n-butylphthalate	1.150	1.240		7.8	
Fluoranthene	1.167	1.148		-1.6	20.0
Pyrene	1.703	1.867		9.6	
Terphenyl-d14	1.185	1.316		11.1	
Butylbenzylphthalate	0.590	0.688		16.6	
3,3-Dichlorobenzidine	0.381	0.427		12.1	
Benzo(a)anthracene	1.329	1.363		2.6	
Chrysene	1.228	1.285		4.6	
Bis(2-ethylhexyl)phthalate	0.665	0.883		32.8	
Di-n-octyl phthalate	0.949	1.339		41.1	20.0
Benzo(b)fluoranthene	1.343	1.304		-2.9	
Benzo(k)fluoranthene	1.147	1.152		0.4	
Benzo(a)pyrene	1.087	1.110		2.1	20.0
Indeno(1,2,3-cd)pyrene	1.236	1.406		13.8	
Dibenzo(a,h)anthracene	1.001	1.141		14.0	
Benzo(g,h,i)perylene	1.048	1.186		13.2	
1,2,4,5-Tetrachlorobenzene	0.579	0.600		3.6	
1,4-Dioxane	0.513	0.531		3.5	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.345		-1.1	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141783.D
Acq On : 26 Feb 2025 15:29
Operator : RC/JU
Sample : Q1422-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Quant Time: Feb 26 15:54:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

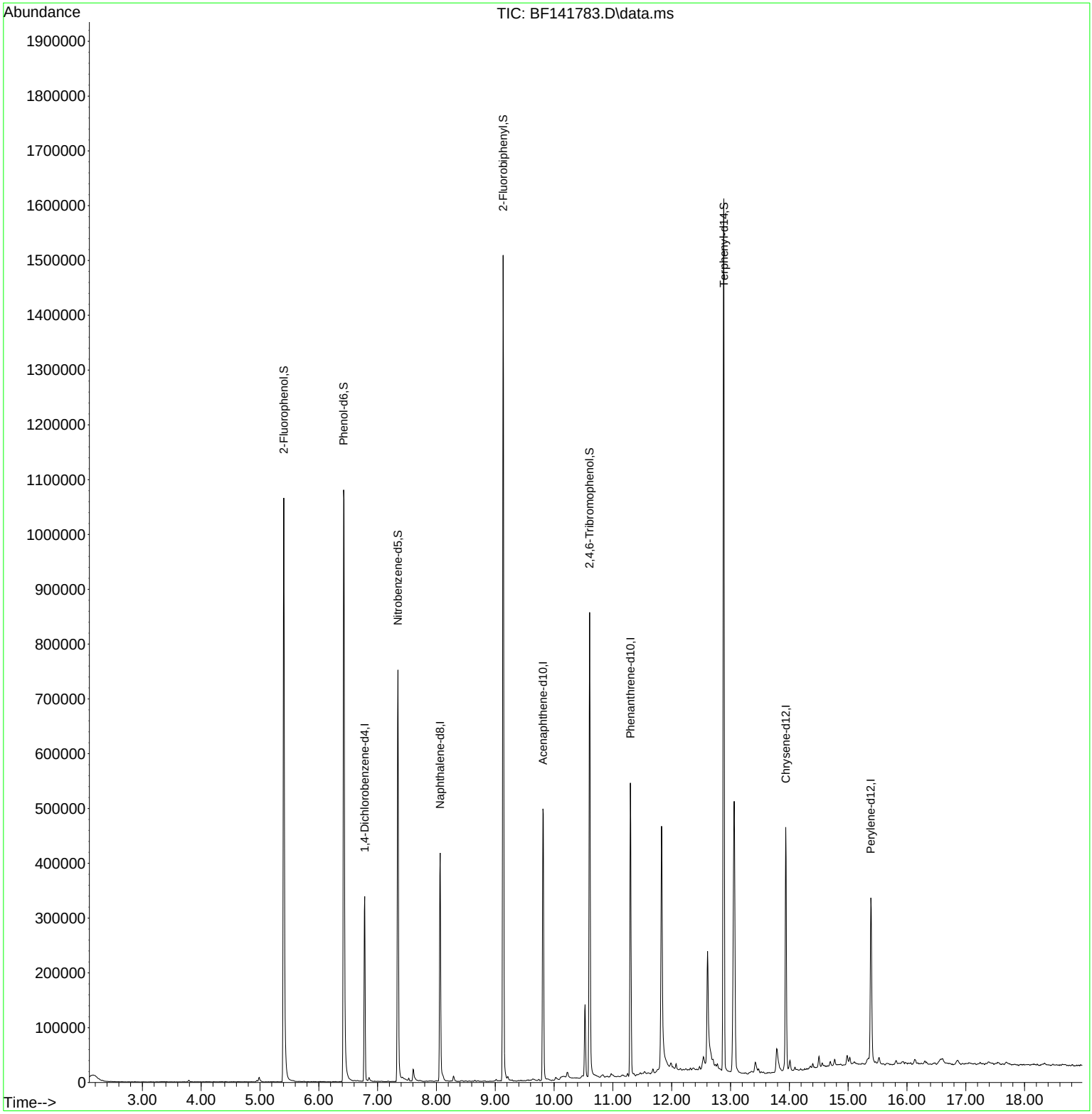
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	72268	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	292697	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	159017	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	283246	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	228691	20.000	ng	-0.02
86) Perylene-d12	15.386	264	192278	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	445168	96.572	ng	0.00
7) Phenol-d6	6.422	99	560982	96.285	ng	-0.02
23) Nitrobenzene-d5	7.345	82	350583	62.473	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	145952	91.369	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	672054	65.112	ng	-0.02
79) Terphenyl-d14	12.886	244	822259	60.698	ng	-0.02
Target Compounds						Qvalue

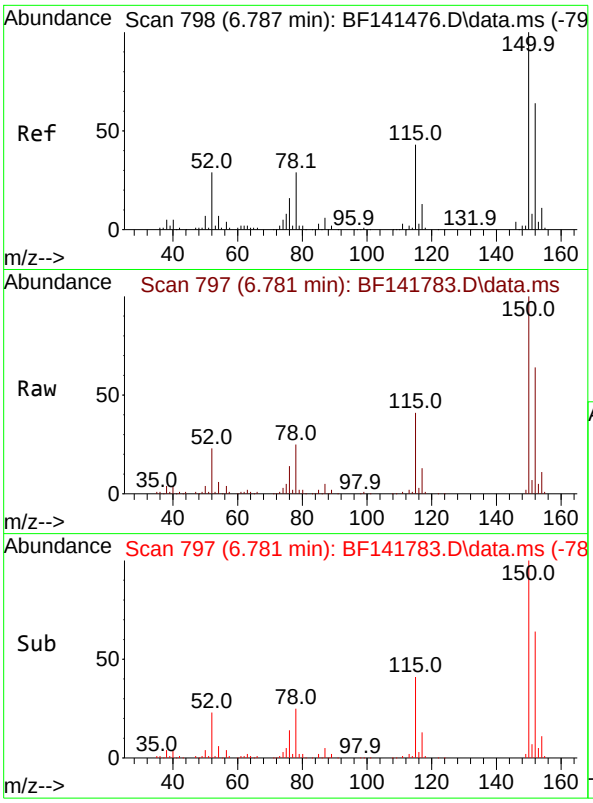
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141783.D
Acq On : 26 Feb 2025 15:29
Operator : RC/JU
Sample : Q1422-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Quant Time: Feb 26 15:54:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



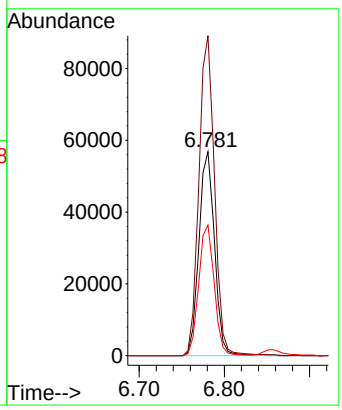


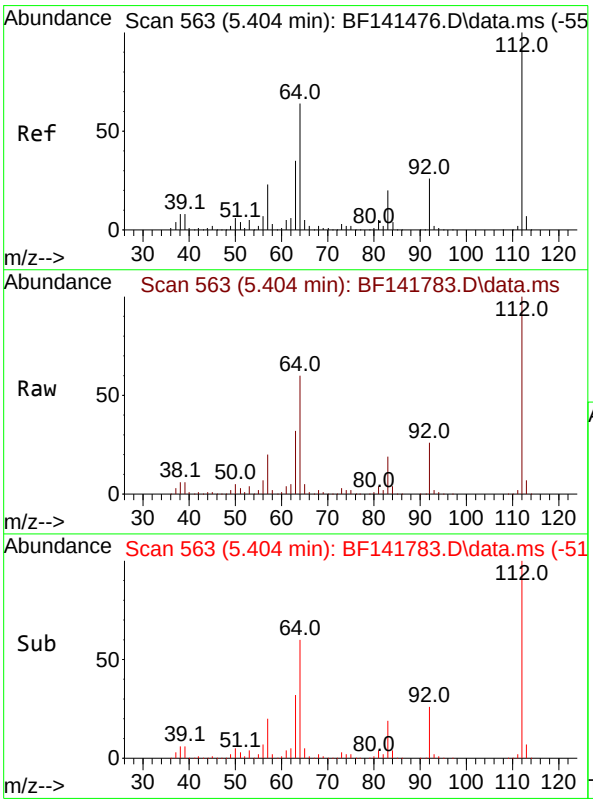
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Tgt Ion:152 Resp: 72268

Ion	Ratio	Lower	Upper
152	100		
150	156.9	125.0	187.4
115	64.0	53.6	80.4

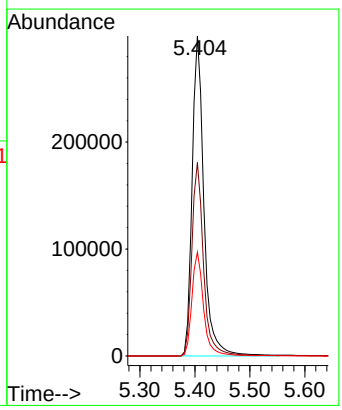


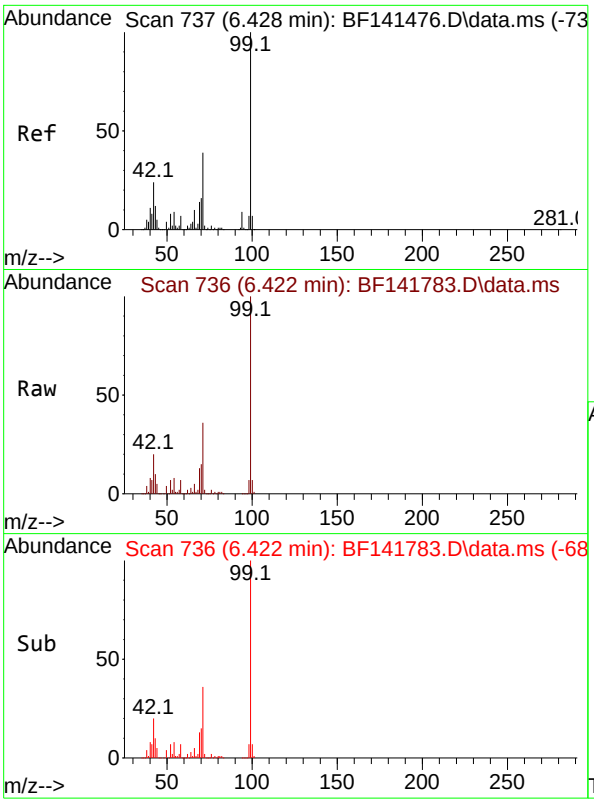


#5
2-Fluorophenol
Concen: 96.572 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Tgt Ion:112 Resp: 445168

Ion	Ratio	Lower	Upper
112	100		
64	60.4	51.1	76.7
63	32.5	28.4	42.6



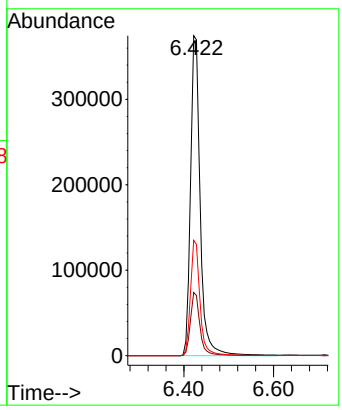


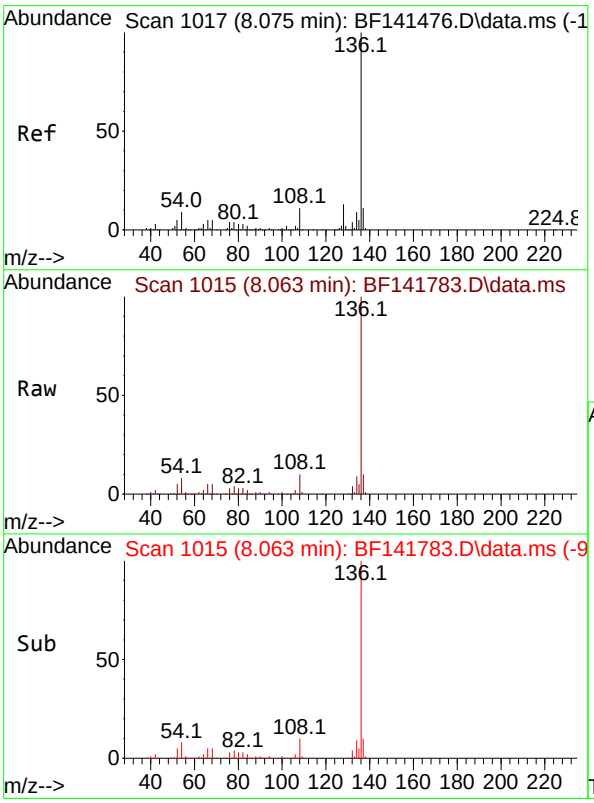
#7
Phenol-d6
Concen: 96.285 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Tgt Ion: 99 Resp: 560982

Ion	Ratio	Lower	Upper
99	100		
42	19.8	19.1	28.7
71	36.1	31.1	46.7

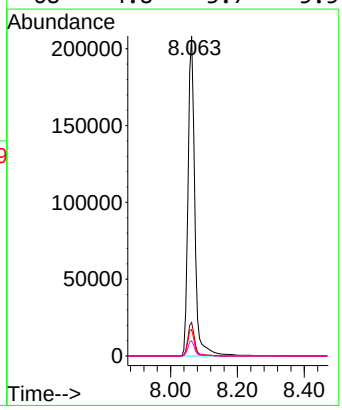


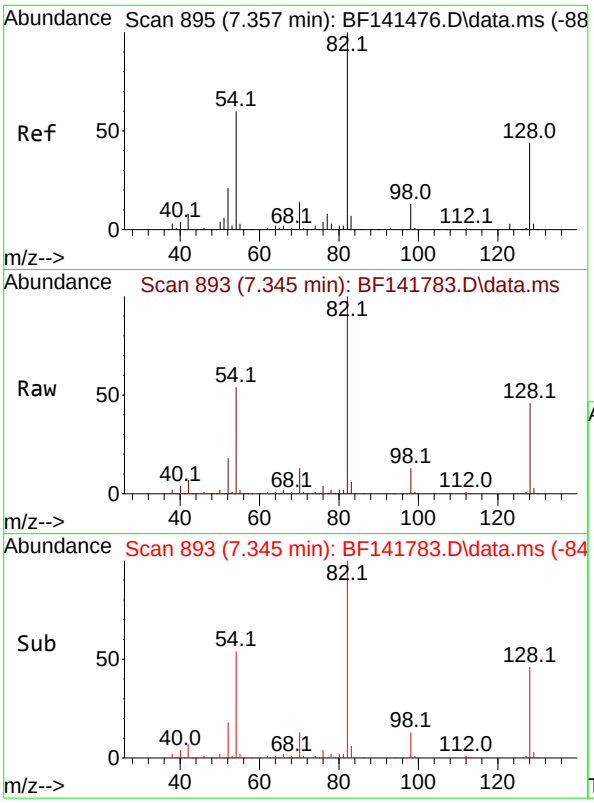


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Tgt Ion:136 Resp: 292697

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	8.2	7.2	10.8
68	4.8	3.7	5.5



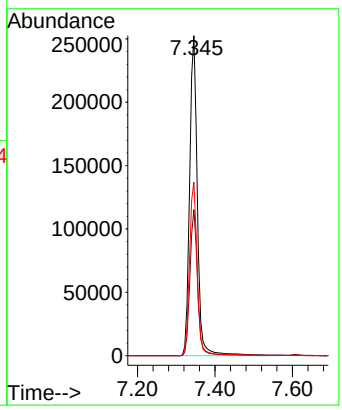


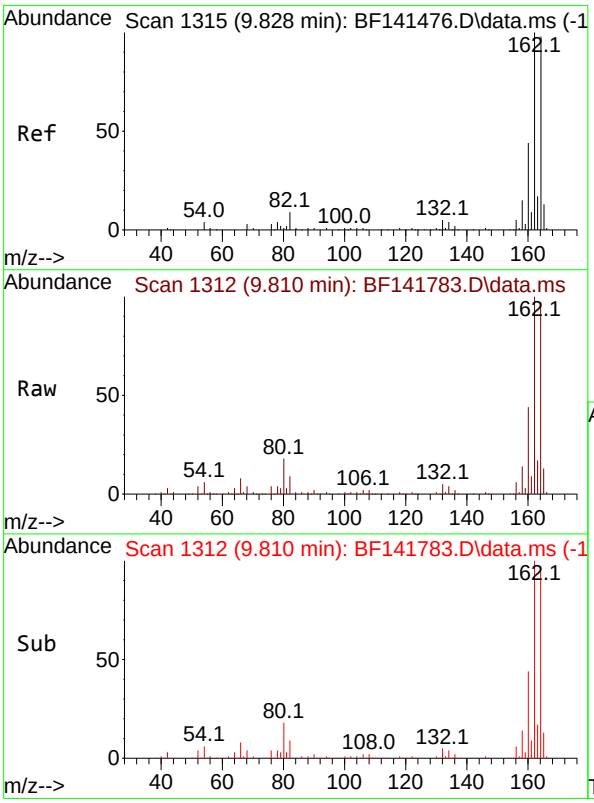
#23
Nitrobenzene-d5
Concen: 62.473 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Tgt Ion: 82 Resp: 350583

Ion	Ratio	Lower	Upper
82	100		
128	45.7	34.8	52.2
54	54.2	48.2	72.4

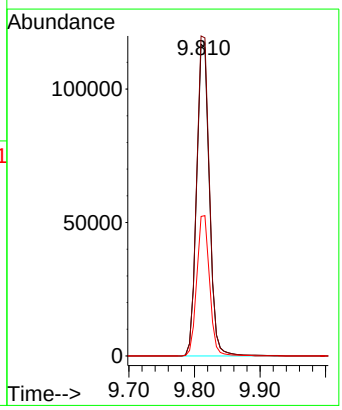


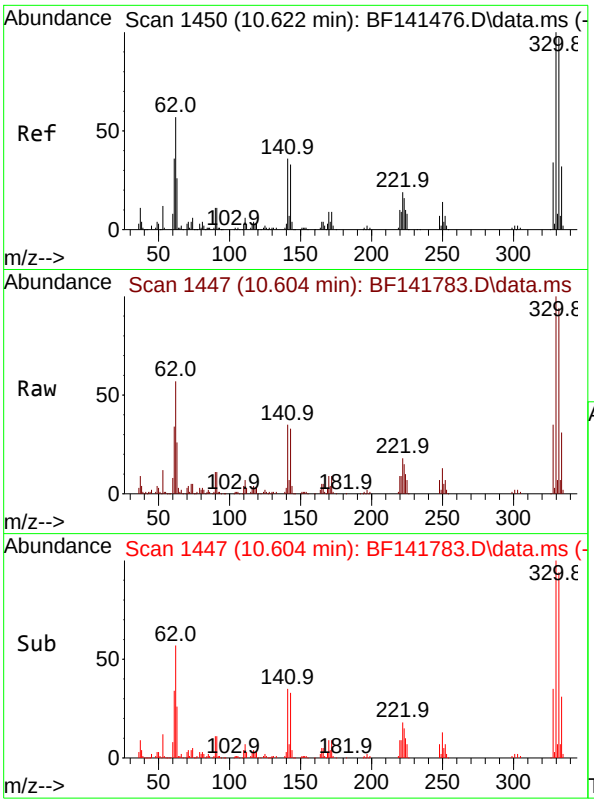


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.023 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Tgt Ion:164 Resp: 159017

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	44.8	35.9	53.9



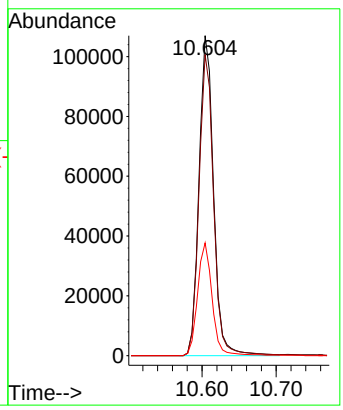


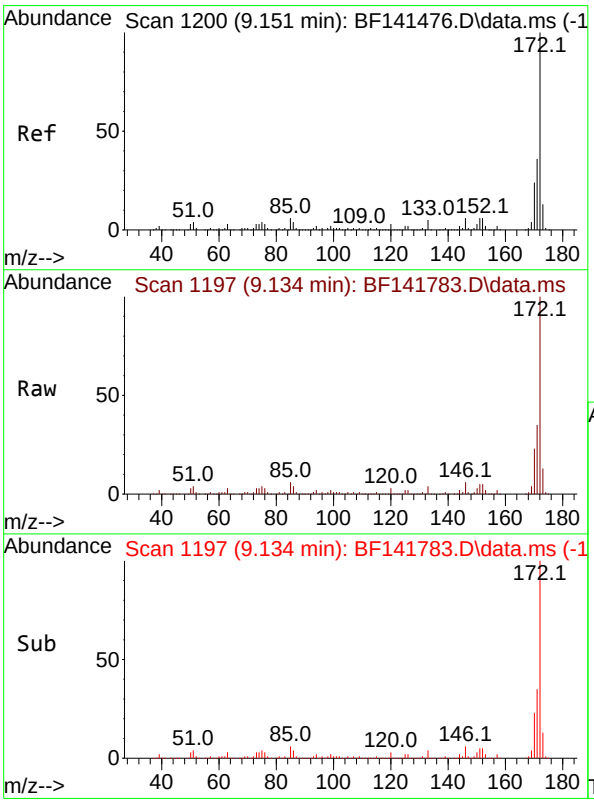
#42
2,4,6-Tribromophenol
Concen: 91.369 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Tgt Ion:330 Resp: 145952

Ion	Ratio	Lower	Upper
330	100		
332	95.3	78.5	117.7
141	35.3	31.0	46.4

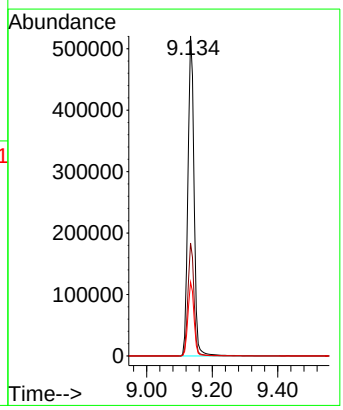


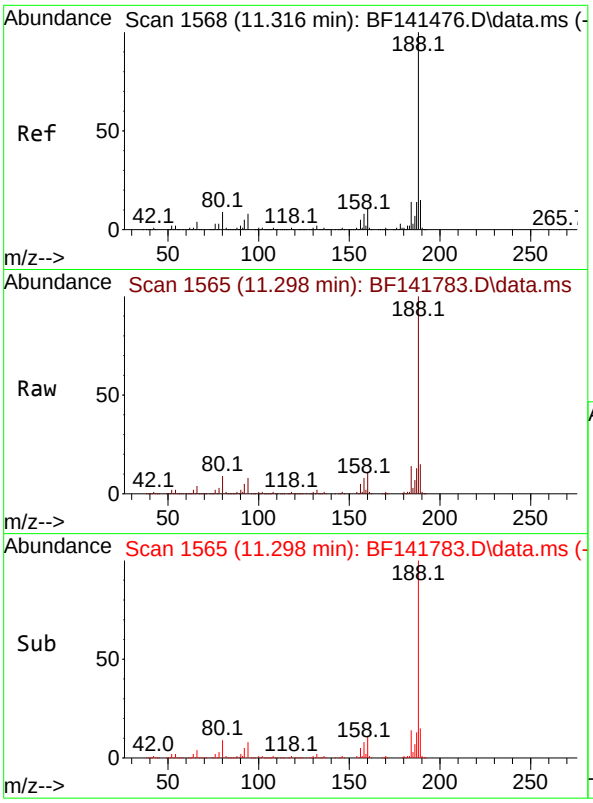


#45
2-Fluorobiphenyl
Concen: 65.112 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Tgt Ion:172 Resp: 672054

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.0	18.9	28.3



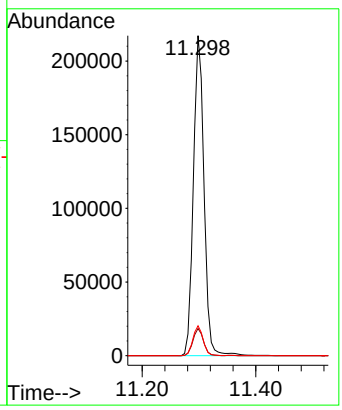


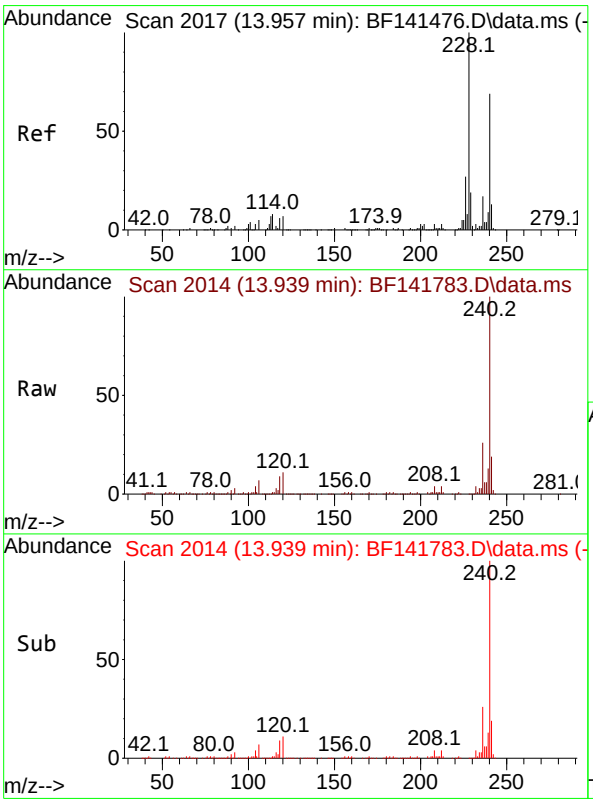
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Tgt Ion:188 Resp: 283246

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.4	7.3	10.9

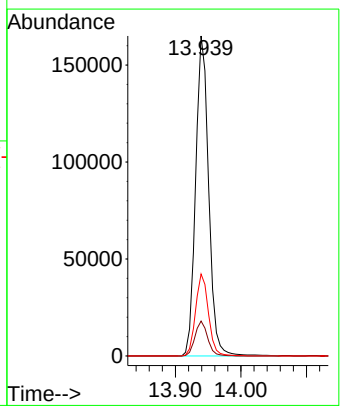


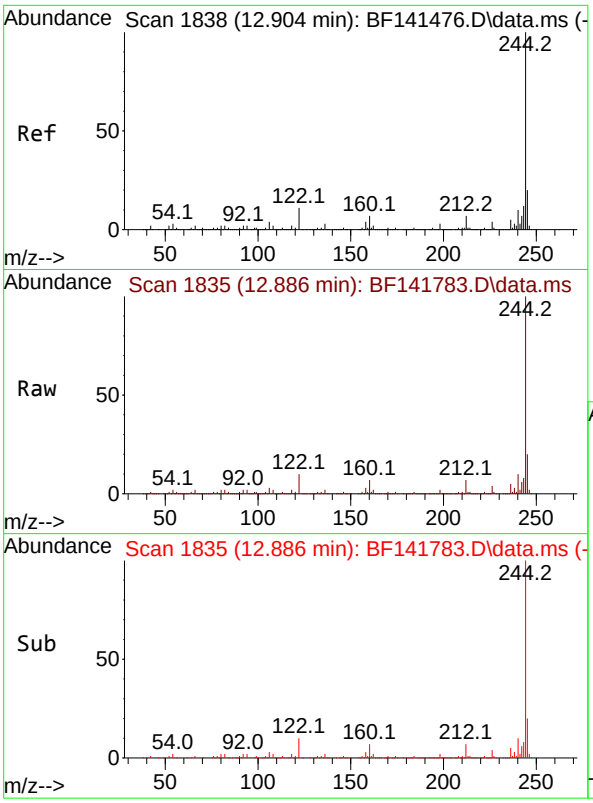


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Tgt Ion:240 Resp: 228691

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.0	12.0
236	25.6	19.8	29.8



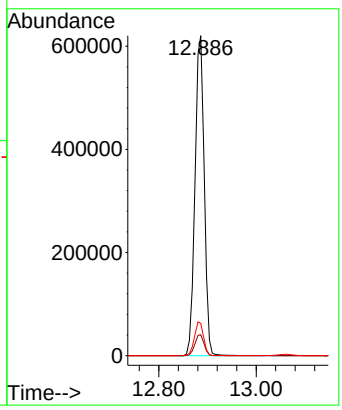


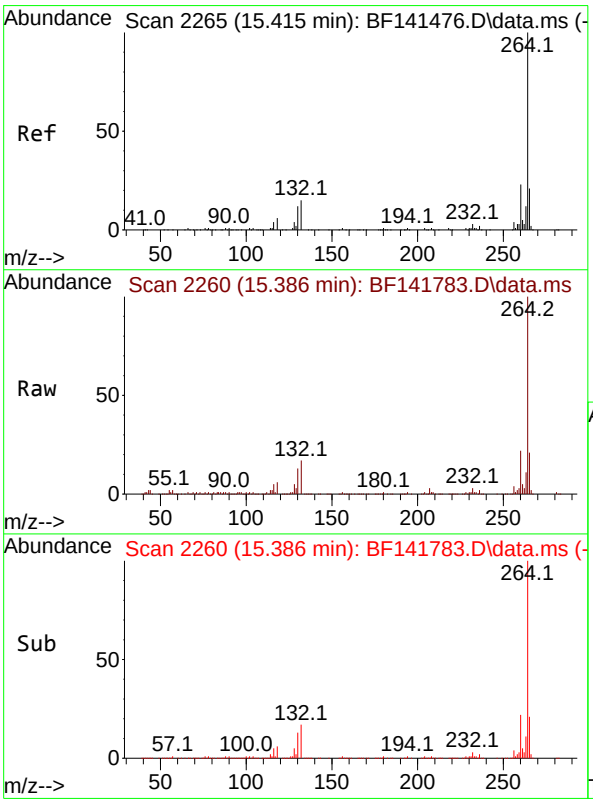
#79
Terphenyl-d14
Concen: 60.698 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Instrument :
BNA_F
ClientSampleId :
B-154-SB01

Tgt Ion:244 Resp: 822259

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.1	8.4	12.6

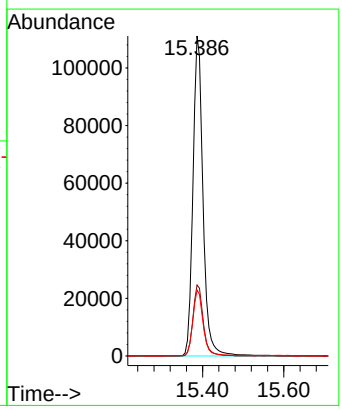




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141783.D
Acq: 26 Feb 2025 15:29

Tgt Ion:264 Resp: 192278

Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.6	28.0
265	20.6	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141786.D
Acq On : 26 Feb 2025 16:57
Operator : RC/JU
Sample : Q1422-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Quant Time: Feb 26 17:24:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

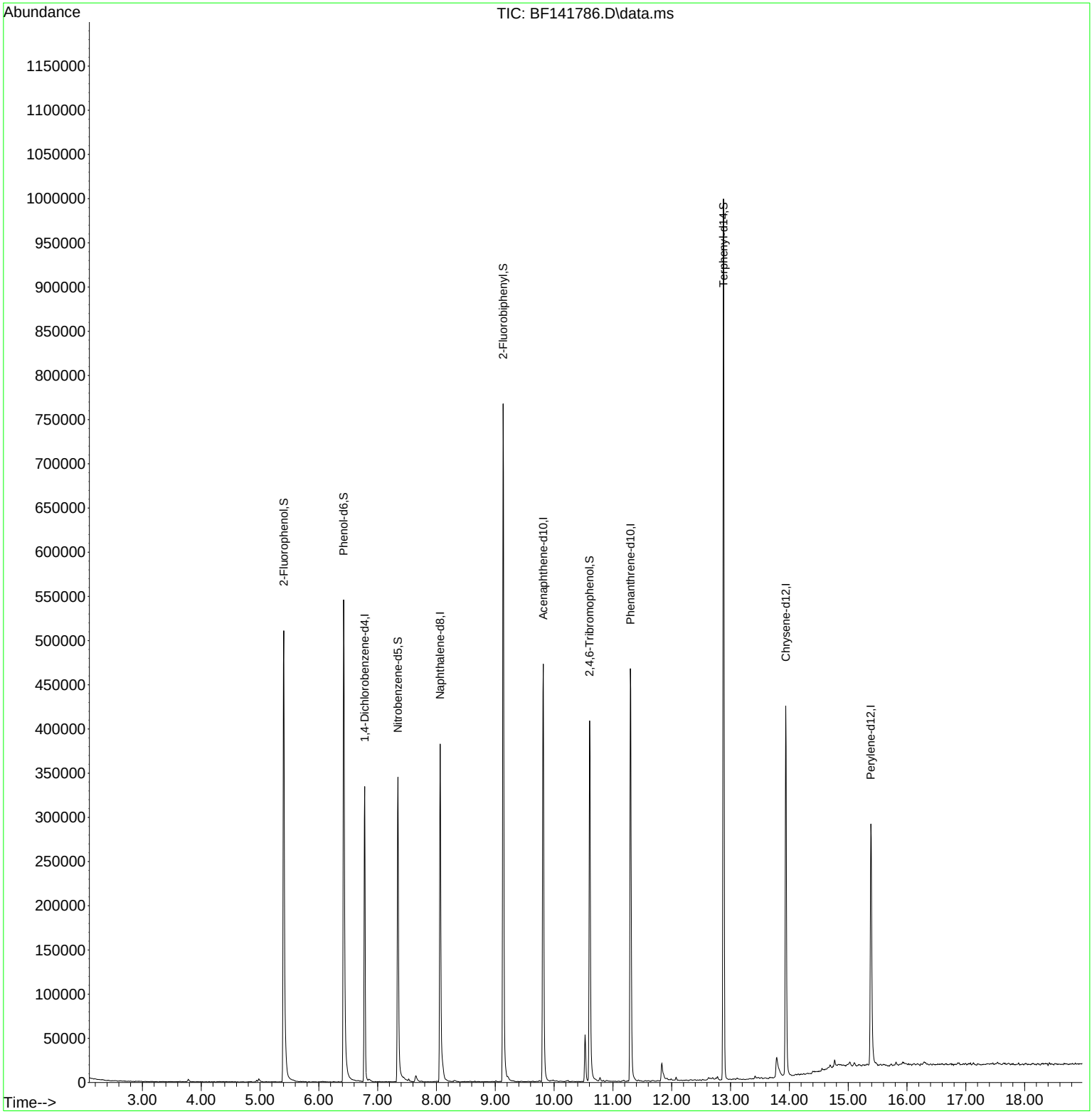
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	73149	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	294675	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	161129	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	287751	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	231209	20.000	ng	-0.02
86) Perylene-d12	15.386	264	186877	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	245073	52.525	ng	0.00
7) Phenol-d6	6.422	99	317704	53.873	ng	-0.02
23) Nitrobenzene-d5	7.345	82	183695	32.514	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	79551	49.148	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	383147	36.635	ng	-0.02
79) Terphenyl-d14	12.880	244	502162	36.665	ng	-0.02
Target Compounds						Qvalue

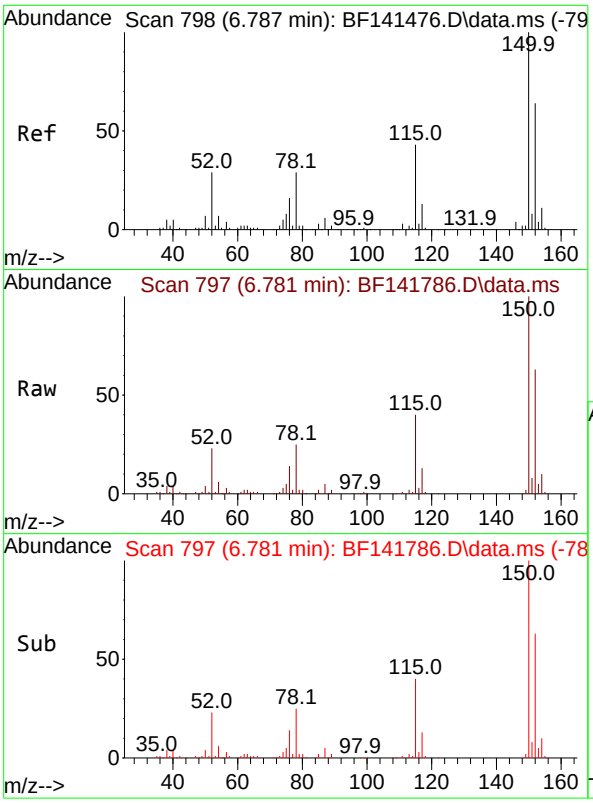
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141786.D
Acq On : 26 Feb 2025 16:57
Operator : RC/JU
Sample : Q1422-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Quant Time: Feb 26 17:24:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



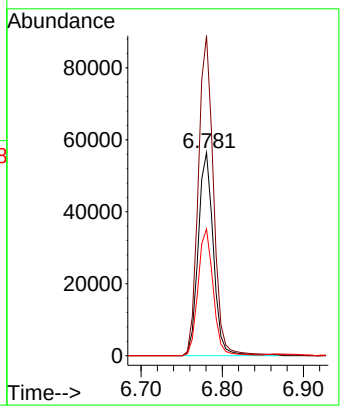


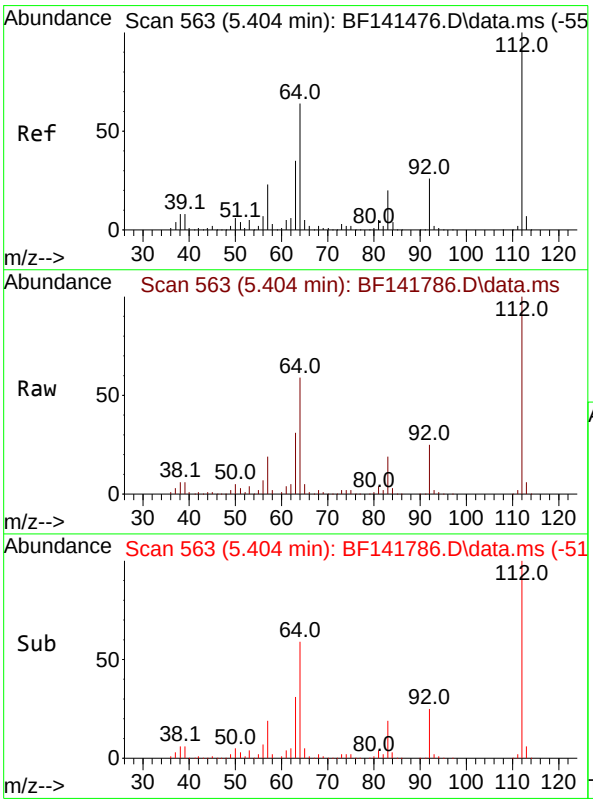
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Tgt Ion:152 Resp: 73149

Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.0	187.4
115	62.4	53.6	80.4

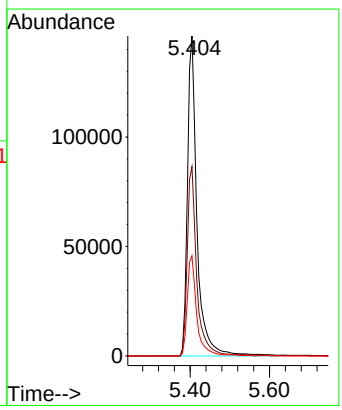


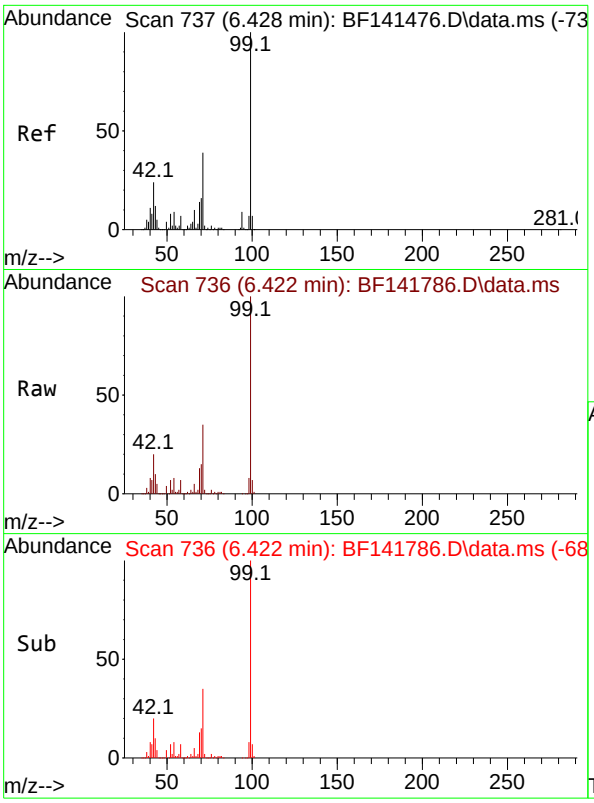


#5
2-Fluorophenol
Concen: 52.525 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Tgt Ion:112 Resp: 245073

Ion	Ratio	Lower	Upper
112	100		
64	59.1	51.1	76.7
63	31.3	28.4	42.6



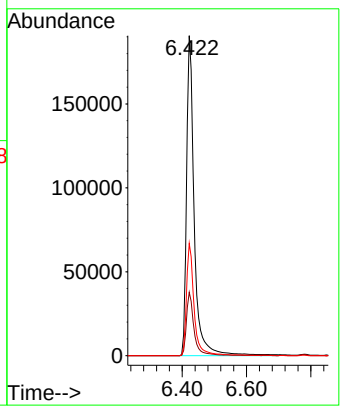


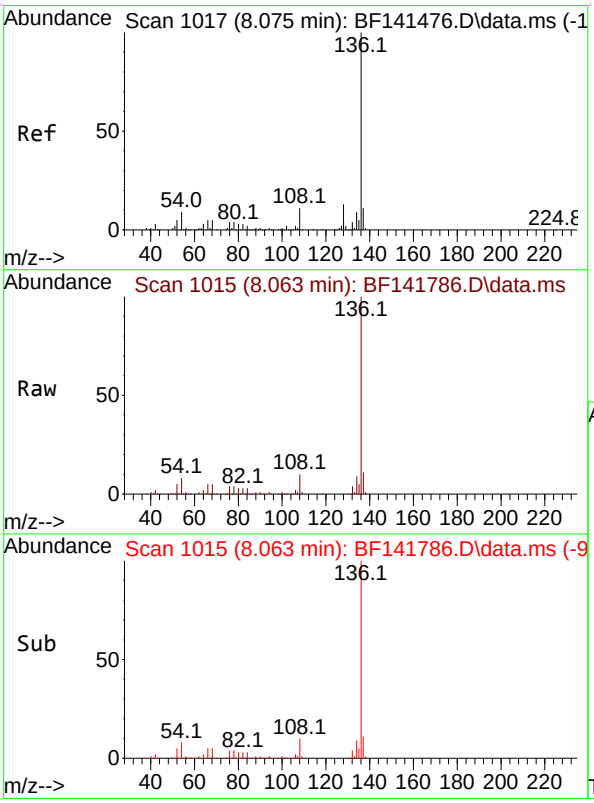
#7
Phenol-d6
Concen: 53.873 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Tgt Ion: 99 Resp: 317704

Ion	Ratio	Lower	Upper
99	100		
42	19.8	19.1	28.7
71	35.1	31.1	46.7

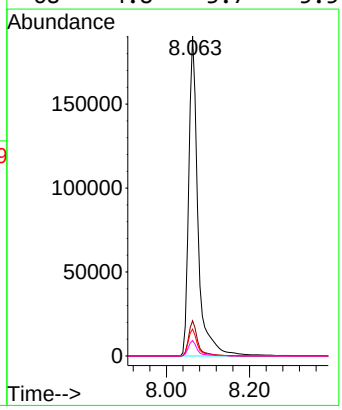


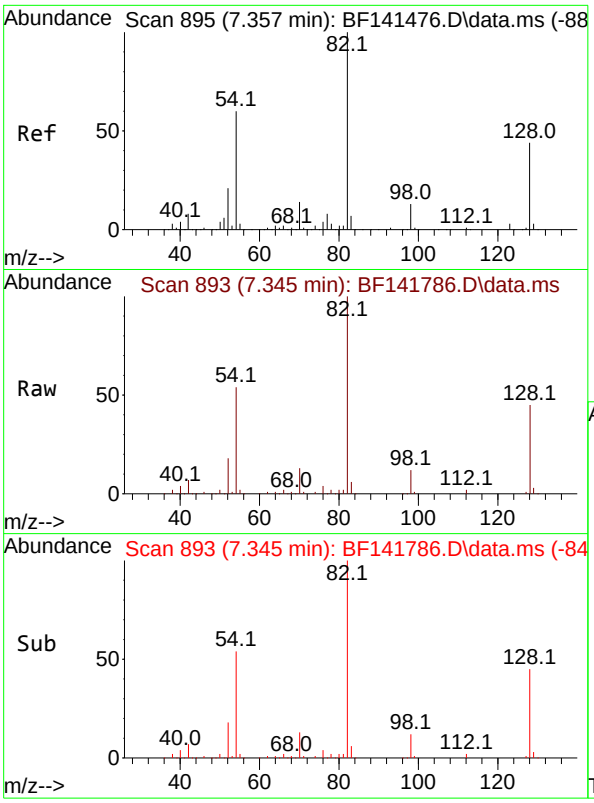


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Tgt Ion:136 Resp: 294675

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.4	7.2	10.8
68	4.8	3.7	5.5



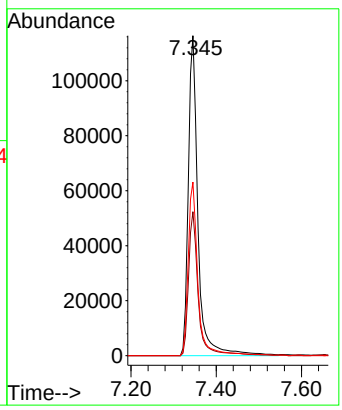


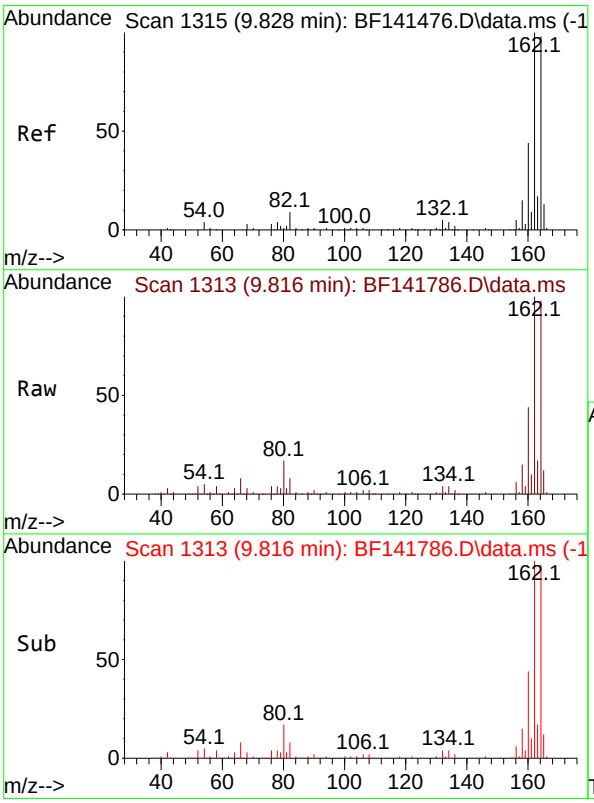
#23
Nitrobenzene-d5
Concen: 32.514 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Tgt Ion: 82 Resp: 183695

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.8	52.2
54	54.2	48.2	72.4

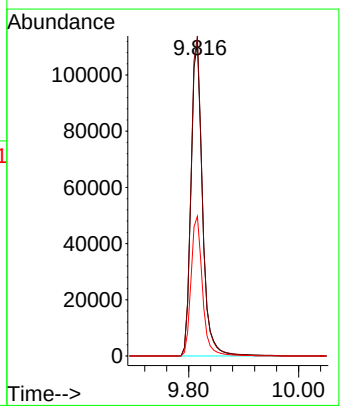


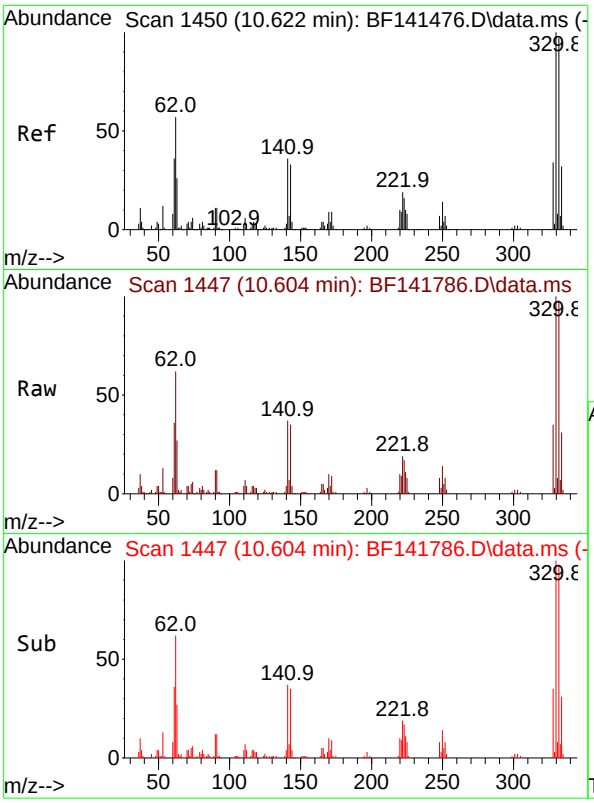


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.018 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Tgt Ion:164 Resp: 161129

Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.3	121.9
160	44.6	35.9	53.9



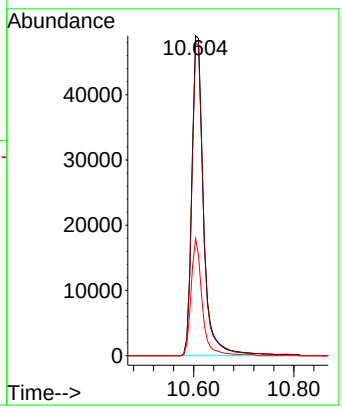


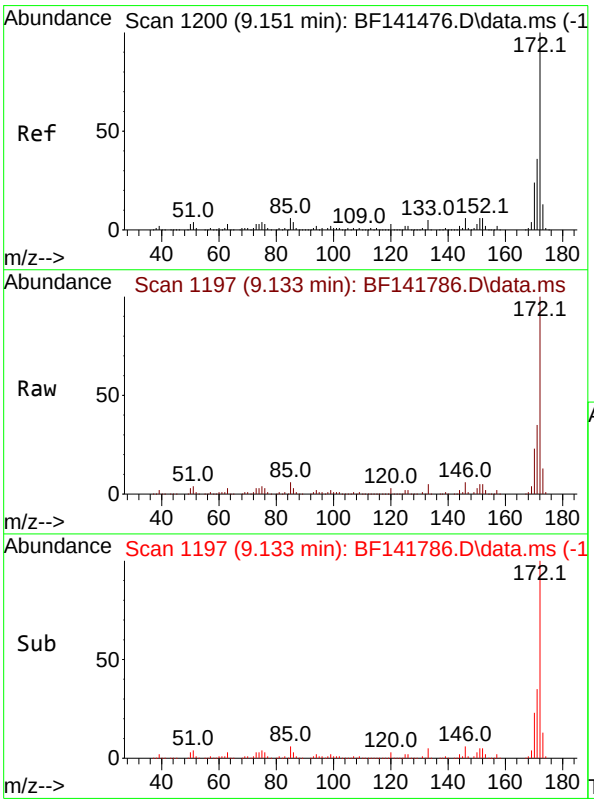
#42
2,4,6-Tribromophenol
Concen: 49.148 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Tgt Ion:330 Resp: 79551

Ion	Ratio	Lower	Upper
330	100		
332	97.9	78.5	117.7
141	34.4	31.0	46.4

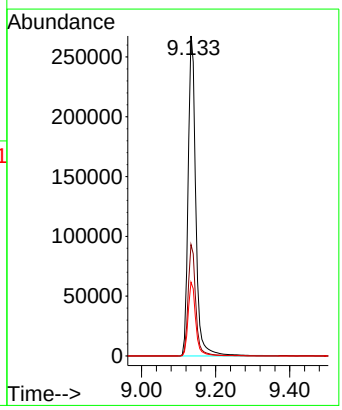


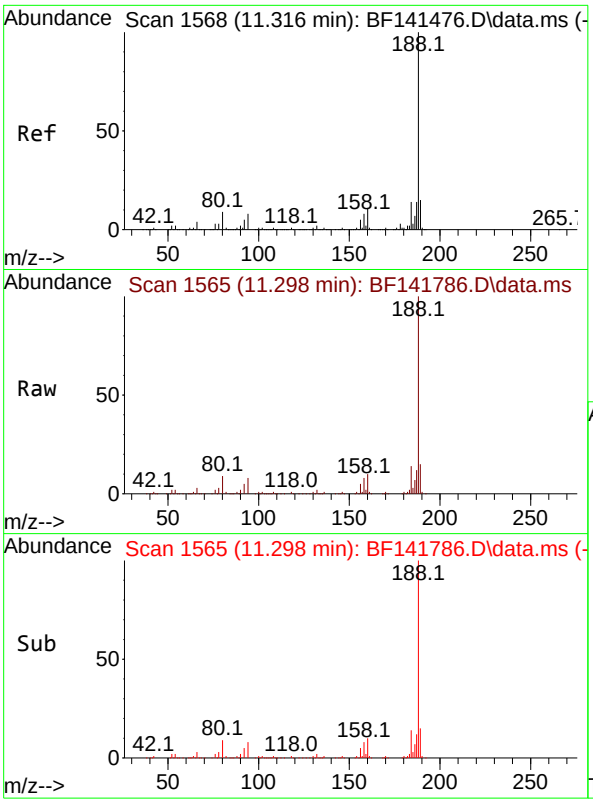


#45
2-Fluorobiphenyl
Concen: 36.635 ng
RT: 9.133 min Scan# 1197
Delta R.T. -0.018 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Tgt Ion:172 Resp: 383147

Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.7	43.1
170	23.0	18.9	28.3



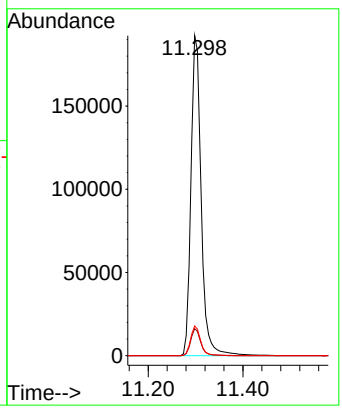


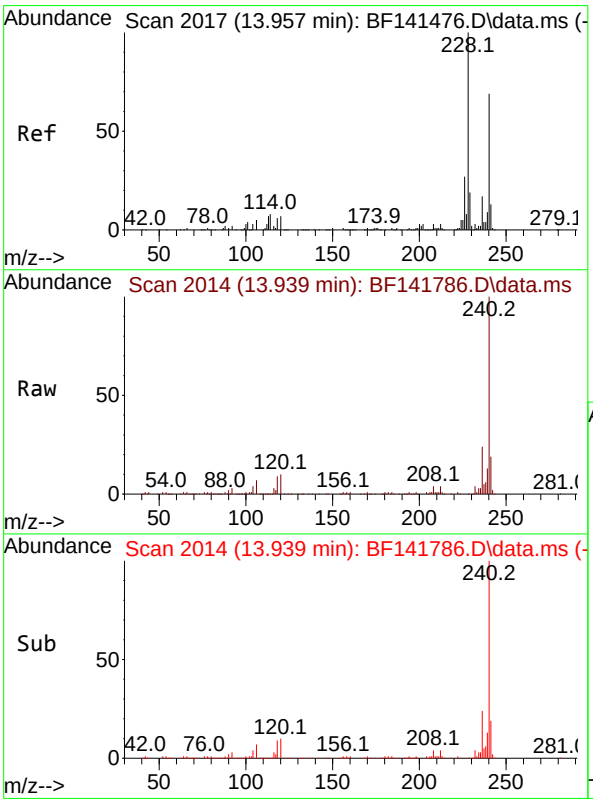
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Tgt Ion:188 Resp: 287751

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.3	7.3	10.9

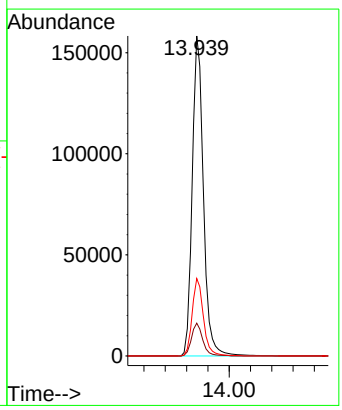


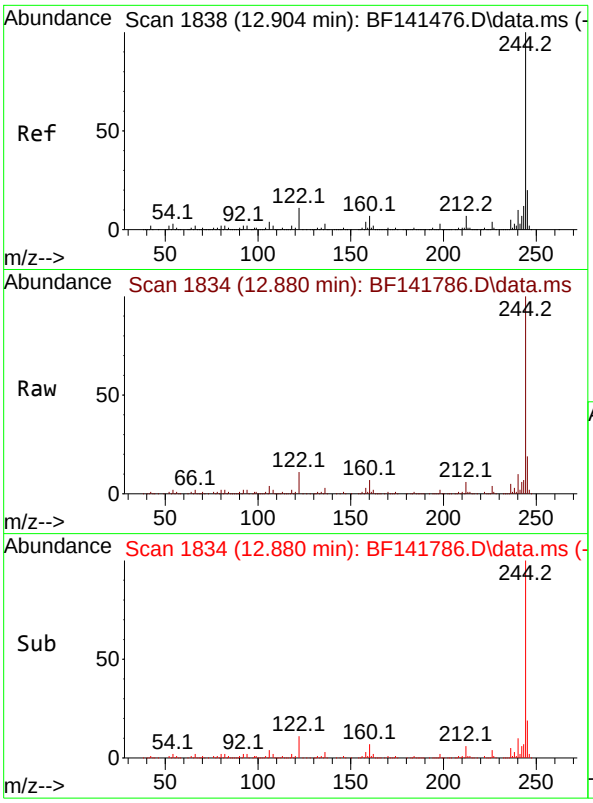


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Tgt Ion:240 Resp: 231209

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.0	12.0
236	24.2	19.8	29.8



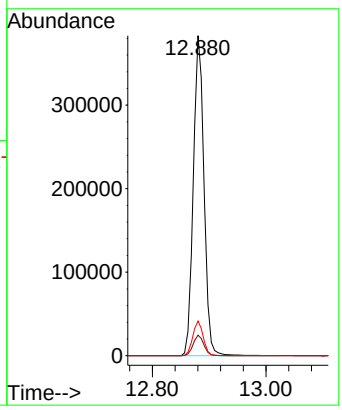


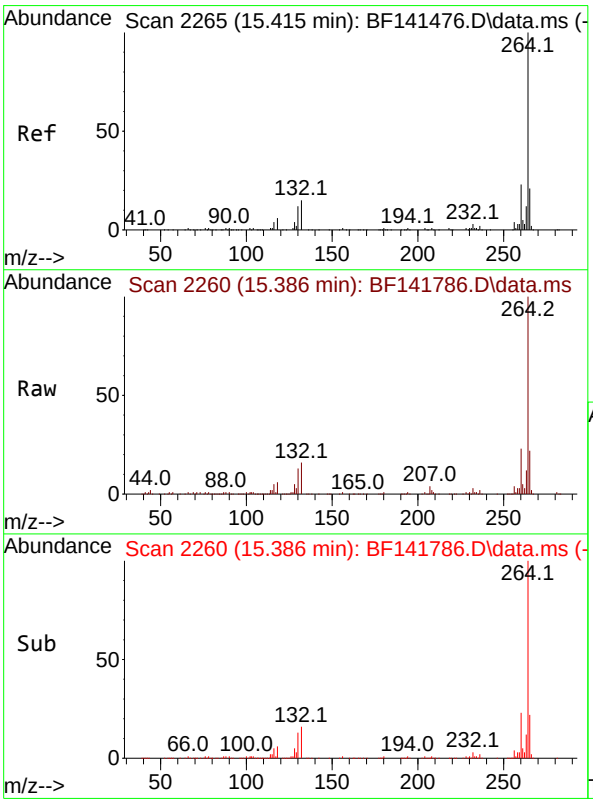
#79
Terphenyl-d14
Concen: 36.665 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Instrument :
BNA_F
ClientSampleId :
B-154-SB02

Tgt Ion:244 Resp: 502162

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	10.8	8.4	12.6

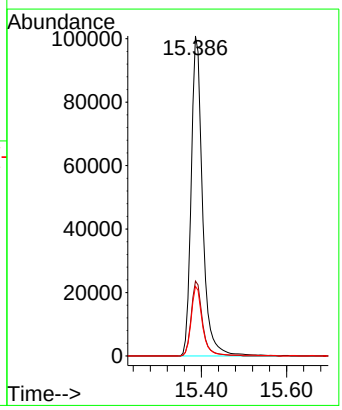




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141786.D
Acq: 26 Feb 2025 16:57

Tgt Ion:264 Resp: 186877

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	21.7	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141778.D
Acq On : 26 Feb 2025 12:56
Operator : RC/JU
Sample : PB166870BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Quant Time: Feb 26 13:19:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

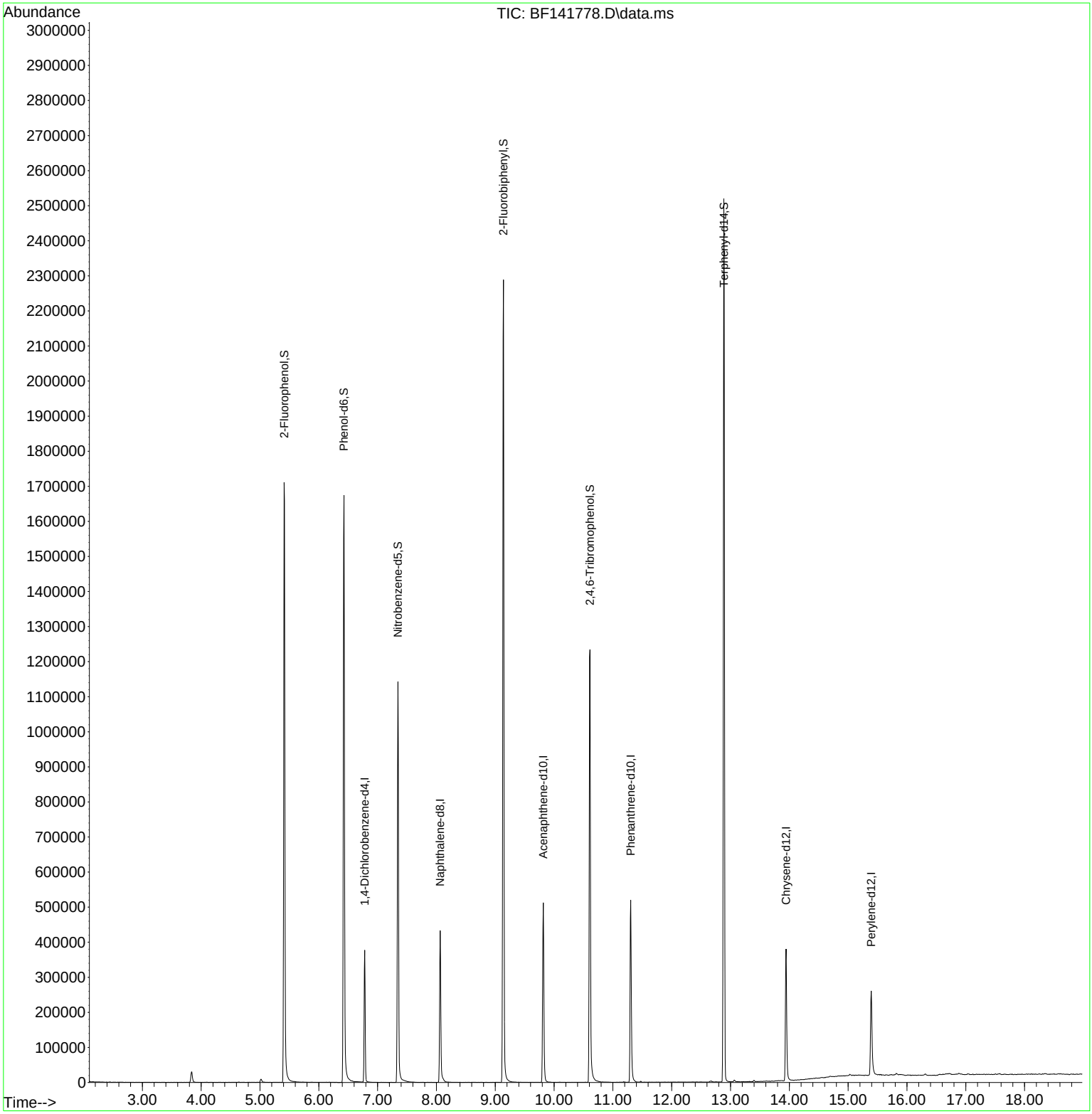
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	79623	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	323428	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	175903	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	313562	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	221568	20.000	ng	-0.02
86) Perylene-d12	15.392	264	172653	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	699238	137.677	ng	0.00
7) Phenol-d6	6.428	99	853735	132.997	ng	-0.01
23) Nitrobenzene-d5	7.345	82	552914	89.167	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	237817	134.586	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1100653	96.400	ng	-0.01
79) Terphenyl-d14	12.886	244	1310564	99.855	ng	-0.02
Target Compounds						Qvalue

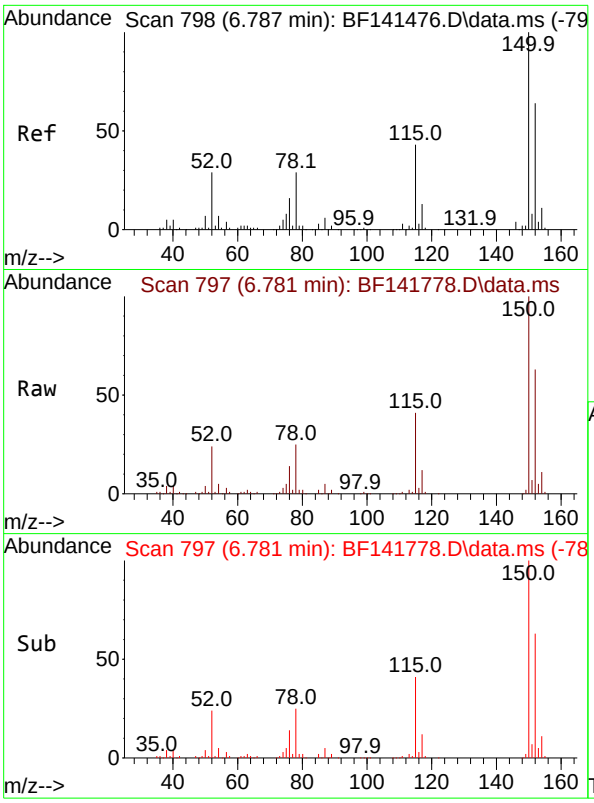
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141778.D
Acq On : 26 Feb 2025 12:56
Operator : RC/JU
Sample : PB166870BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Quant Time: Feb 26 13:19:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



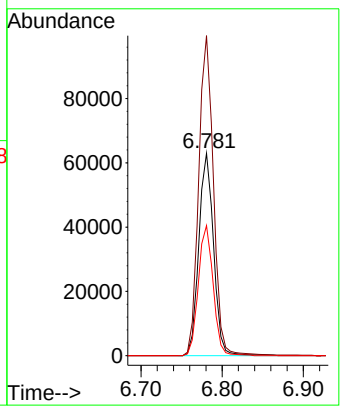


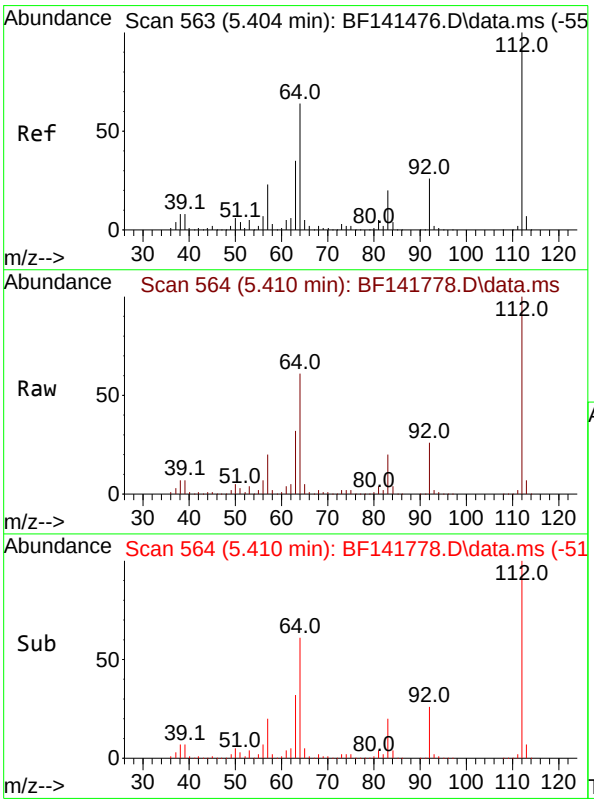
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Tgt Ion:152 Resp: 79623

Ion	Ratio	Lower	Upper
152	100		
150	158.1	125.0	187.4
115	64.3	53.6	80.4

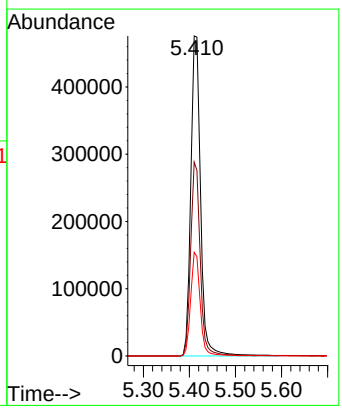


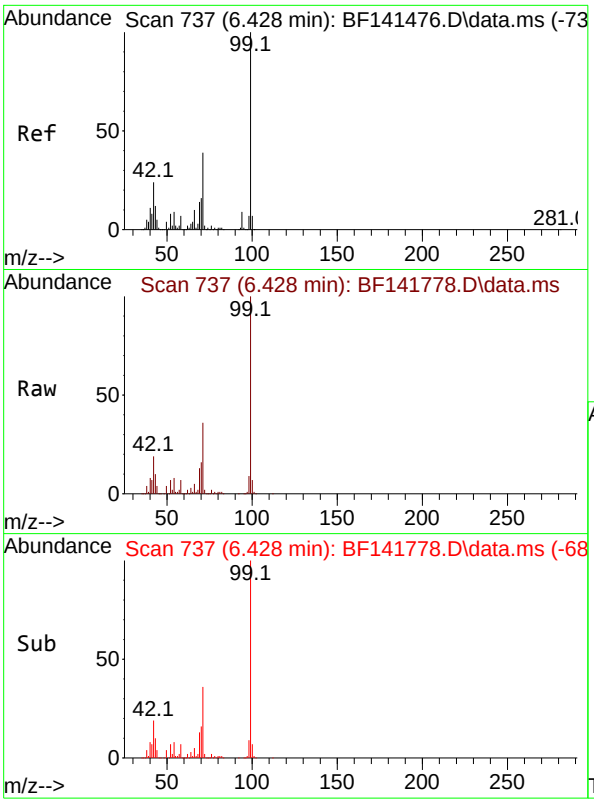


#5
2-Fluorophenol
Concen: 137.677 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Tgt Ion:112 Resp: 699238

Ion	Ratio	Lower	Upper
112	100		
64	60.6	51.1	76.7
63	32.4	28.4	42.6



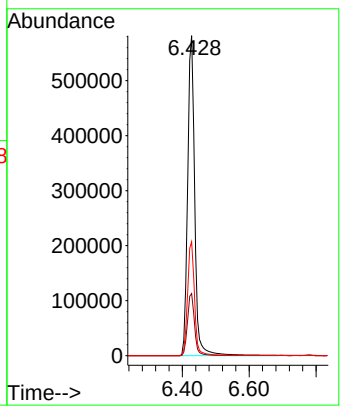


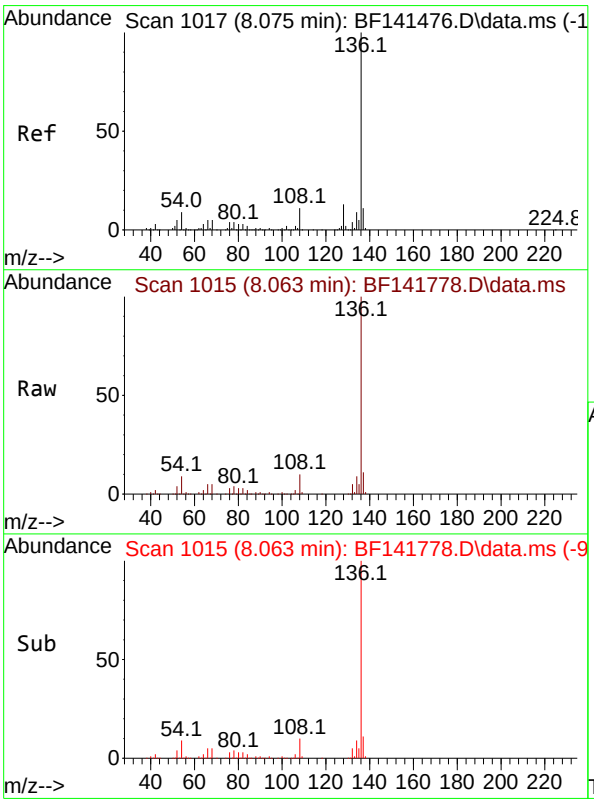
#7
Phenol-d6
Concen: 132.997 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Tgt Ion: 99 Resp: 853735

Ion	Ratio	Lower	Upper
99	100		
42	19.4	19.1	28.7
71	35.6	31.1	46.7

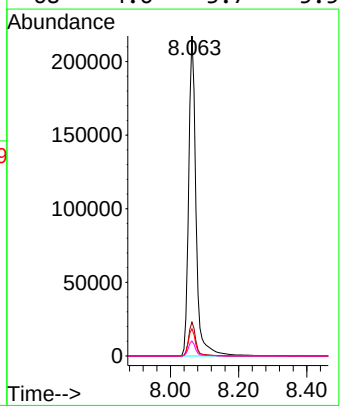


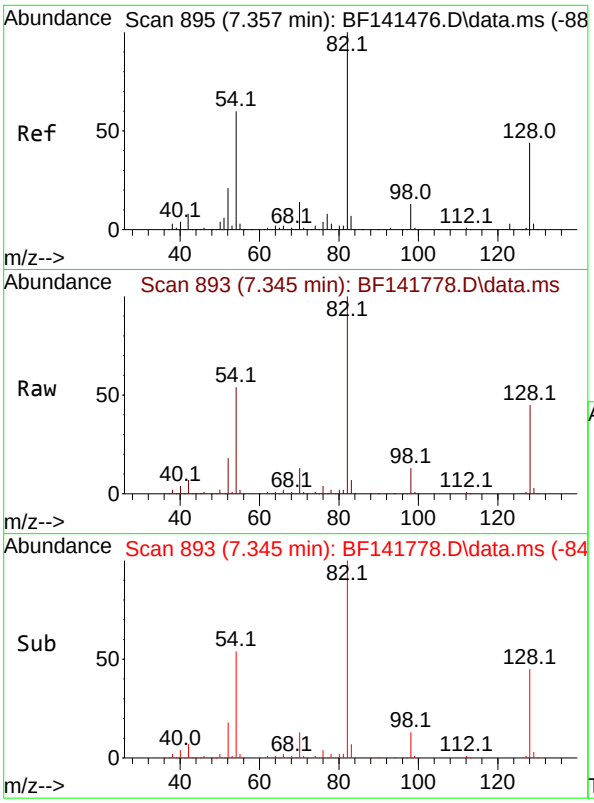


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Tgt Ion:136 Resp: 323428

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	8.5	7.2	10.8
68	4.6	3.7	5.5



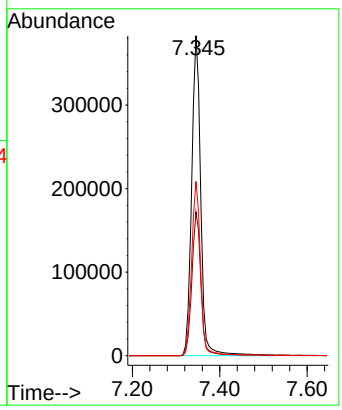


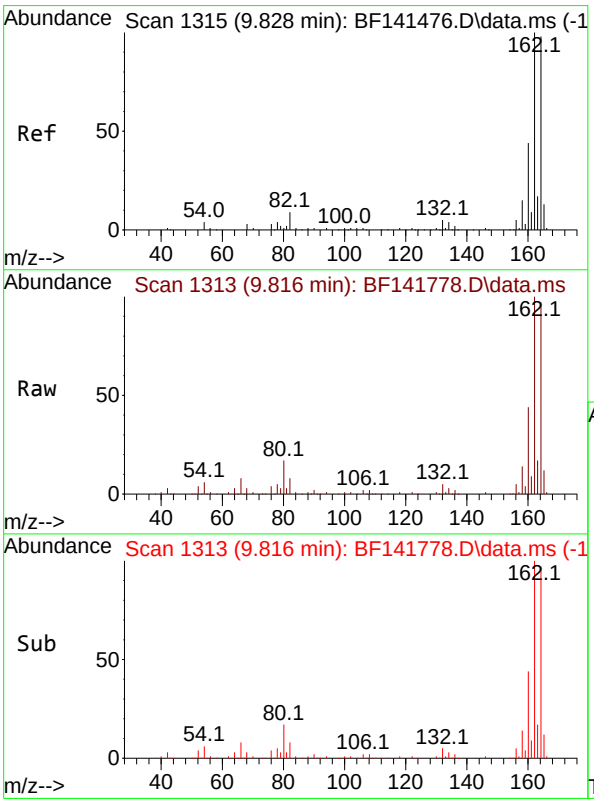
#23
Nitrobenzene-d5
Concen: 89.167 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Tgt Ion: 82 Resp: 552914

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.8	52.2
54	54.5	48.2	72.4

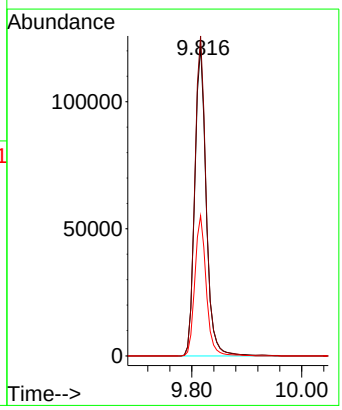


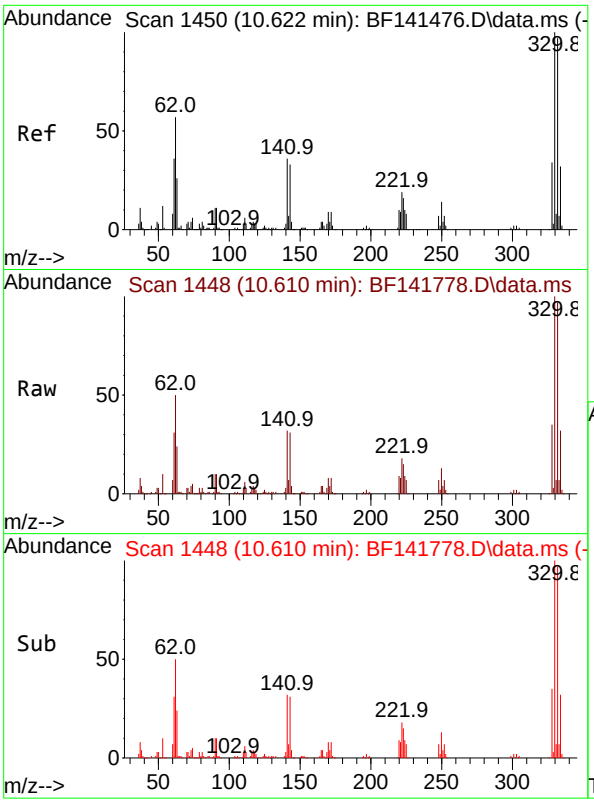


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Tgt Ion:164 Resp: 175903

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.3	121.9
160	45.3	35.9	53.9



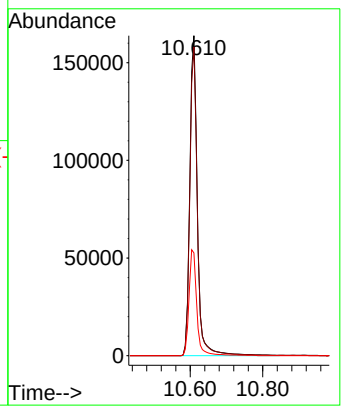


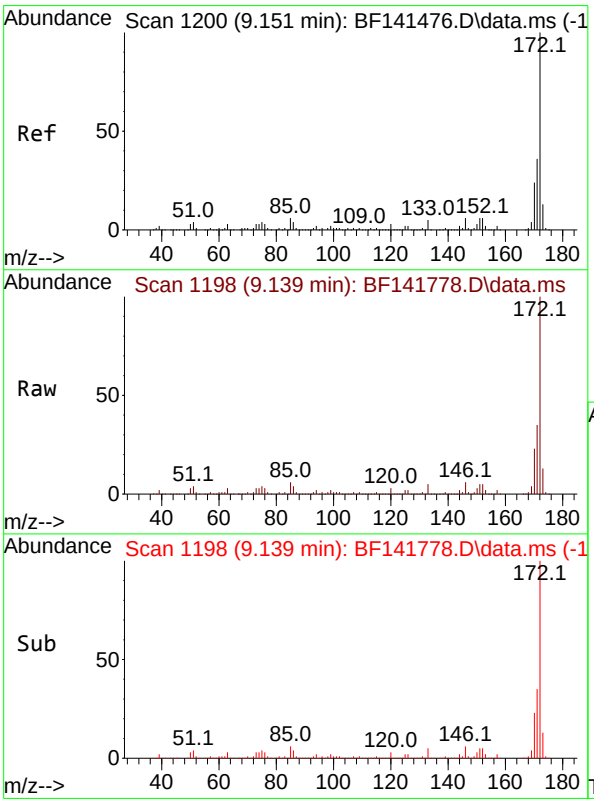
#42
2,4,6-Tribromophenol
Concen: 134.586 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Tgt Ion:330 Resp: 237817

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.5	117.7
141	34.2	31.0	46.4

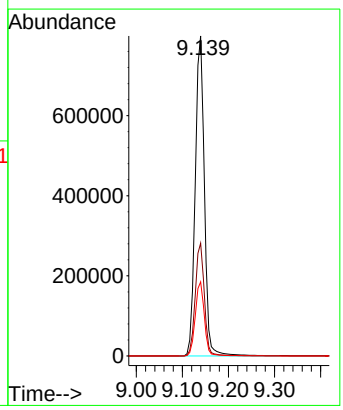


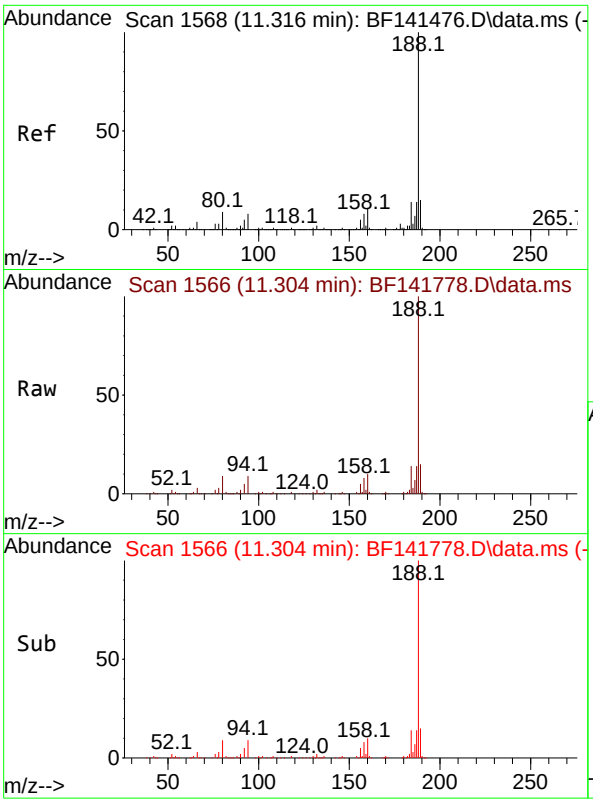


#45
2-Fluorobiphenyl
Concen: 96.400 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Tgt Ion:172 Resp: 1100653

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.2	18.9	28.3



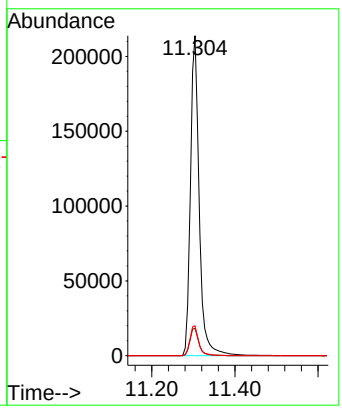


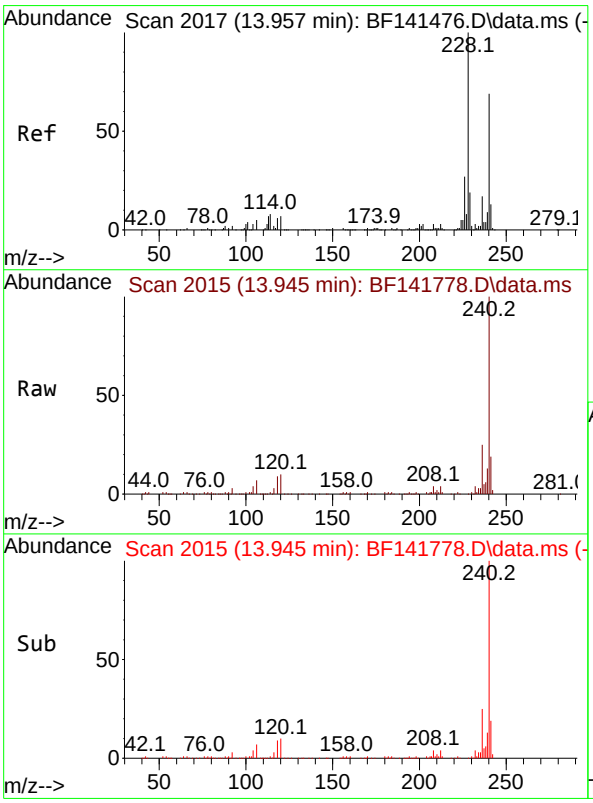
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Tgt Ion:188 Resp: 313562

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.3	7.3	10.9

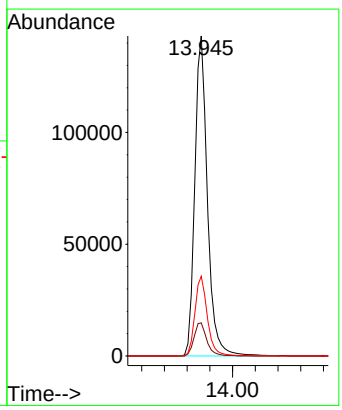


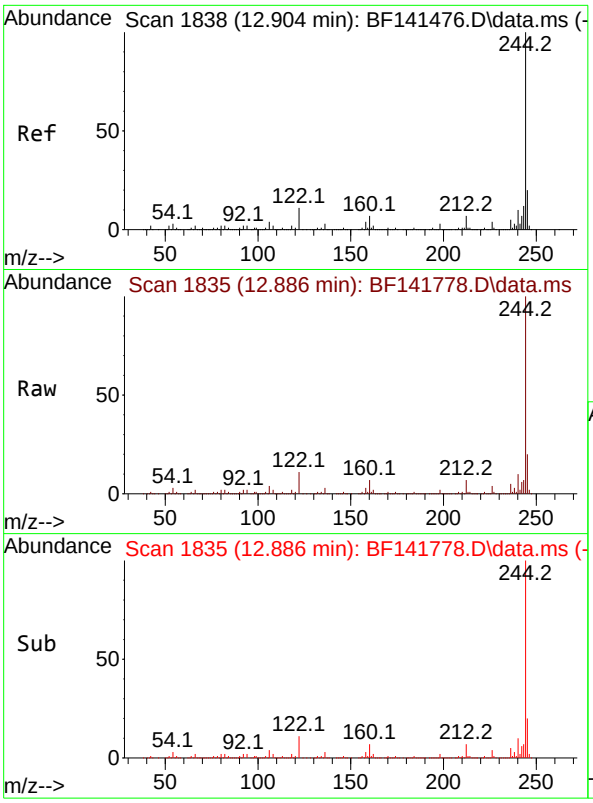


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Tgt Ion:240 Resp: 221568

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.0	12.0
236	24.9	19.8	29.8



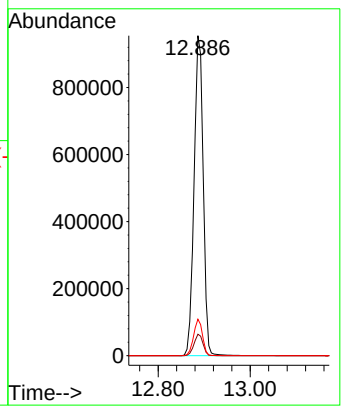


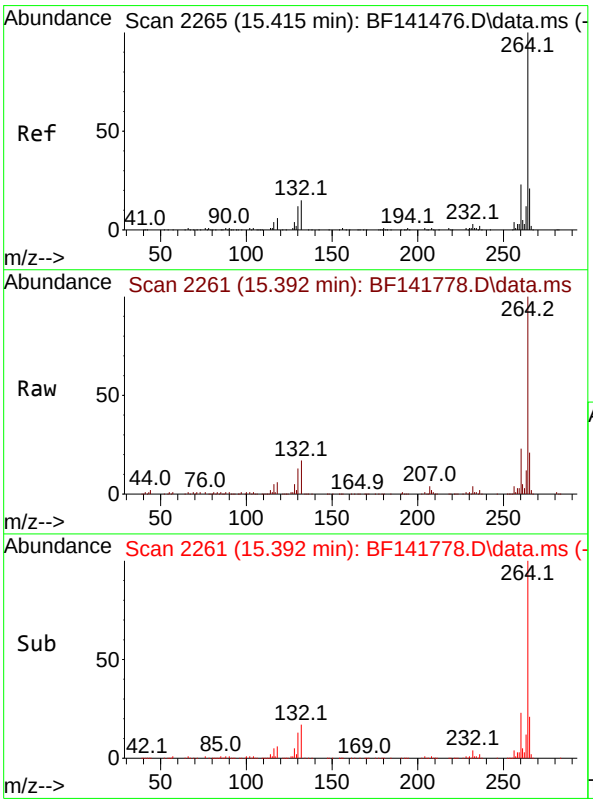
#79
Terphenyl-d14
Concen: 99.855 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Instrument :
BNA_F
ClientSampleId :
PB166870BL

Tgt Ion:244 Resp: 1310564

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	11.4	8.4	12.6

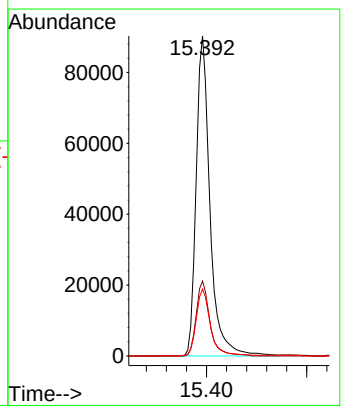




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.392 min Scan# 2261
Delta R.T. -0.023 min
Lab File: BF141778.D
Acq: 26 Feb 2025 12:56

Tgt Ion:264 Resp: 172653

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	20.9	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141779.D
Acq On : 26 Feb 2025 13:26
Operator : RC/JU
Sample : PB166870BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166870BS

Quant Time: Feb 26 13:46:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	85071	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	333608	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	184169	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	318764	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	204697	20.000	ng		-0.02
86) Perylene-d12	15.386	264	183683	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	684005	126.053	ng		0.00
7) Phenol-d6	6.428	99	817951	119.262	ng		-0.01
23) Nitrobenzene-d5	7.351	82	538922	84.258	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	244277	132.037	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1059860	88.661	ng		-0.01
79) Terphenyl-d14	12.886	244	1239656	102.237	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.563	88	84303	38.601	ng		94
3) Pyridine	3.299	79	197322	37.968	ng		91
4) n-Nitrosodimethylamine	3.246	42	115743	33.634	ng		86
6) Aniline	6.445	93	198673	30.881	ng	#	69
8) 2-Chlorophenol	6.575	128	247114	42.145	ng		97
9) Benzaldehyde	6.334	77	96347	26.436	ng		99
10) Phenol	6.445	94	287440	40.267	ng		95
11) bis(2-Chloroethyl)ether	6.516	93	224021	41.782	ng		99
12) 1,3-Dichlorobenzene	6.722	146	258935	41.831	ng		97
13) 1,4-Dichlorobenzene	6.798	146	262689	41.535	ng		98
14) 1,2-Dichlorobenzene	6.951	146	253149	43.127	ng		98
15) Benzyl Alcohol	6.934	79	209030	39.744	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.057	45	336953	36.713	ng		62
17) 2-Methylphenol	7.051	107	189779	41.360	ng		95
18) Hexachloroethane	7.287	117	97139	41.502	ng		99
19) n-Nitroso-di-n-propyla...	7.198	70	165435	40.326	ng		93
20) 3+4-Methylphenols	7.204	107	253481	43.470	ng	#	77
22) Acetophenone	7.192	105	378286	45.584	ng	#	90
24) Nitrobenzene	7.369	77	248767	39.886	ng		96
25) Isophorone	7.604	82	447759	43.905	ng		99
26) 2-Nitrophenol	7.681	139	132890	42.826	ng		94
27) 2,4-Dimethylphenol	7.728	122	195935	54.051	ng		97
28) bis(2-Chloroethoxy)met...	7.816	93	279279	42.736	ng		98
29) 2,4-Dichlorophenol	7.934	162	207842	42.435	ng		100
30) 1,2,4-Trichlorobenzene	8.004	180	224642	42.118	ng		99
31) Naphthalene	8.086	128	711676	40.982	ng		100
32) Benzoic acid	7.875	122	132290	35.134	ng		97
33) 4-Chloroaniline	8.139	127	99947	16.485	ng		98
34) Hexachlorobutadiene	8.198	225	137306	42.882	ng		100
35) Caprolactam	8.516	113	72001m	48.282	ng		
36) 4-Chloro-3-methylphenol	8.634	107	221721	40.867	ng		99
37) 2-Methylnaphthalene	8.775	142	456469	40.394	ng		100
38) 1-Methylnaphthalene	8.875	142	442325	40.415	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	249629	46.850	ng		98
41) Hexachlorocyclopentadiene	8.928	237	214365	120.959	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	143163	41.572	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141779.D
Acq On : 26 Feb 2025 13:26
Operator : RC/JU
Sample : PB166870BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166870BS

Quant Time: Feb 26 13:46:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

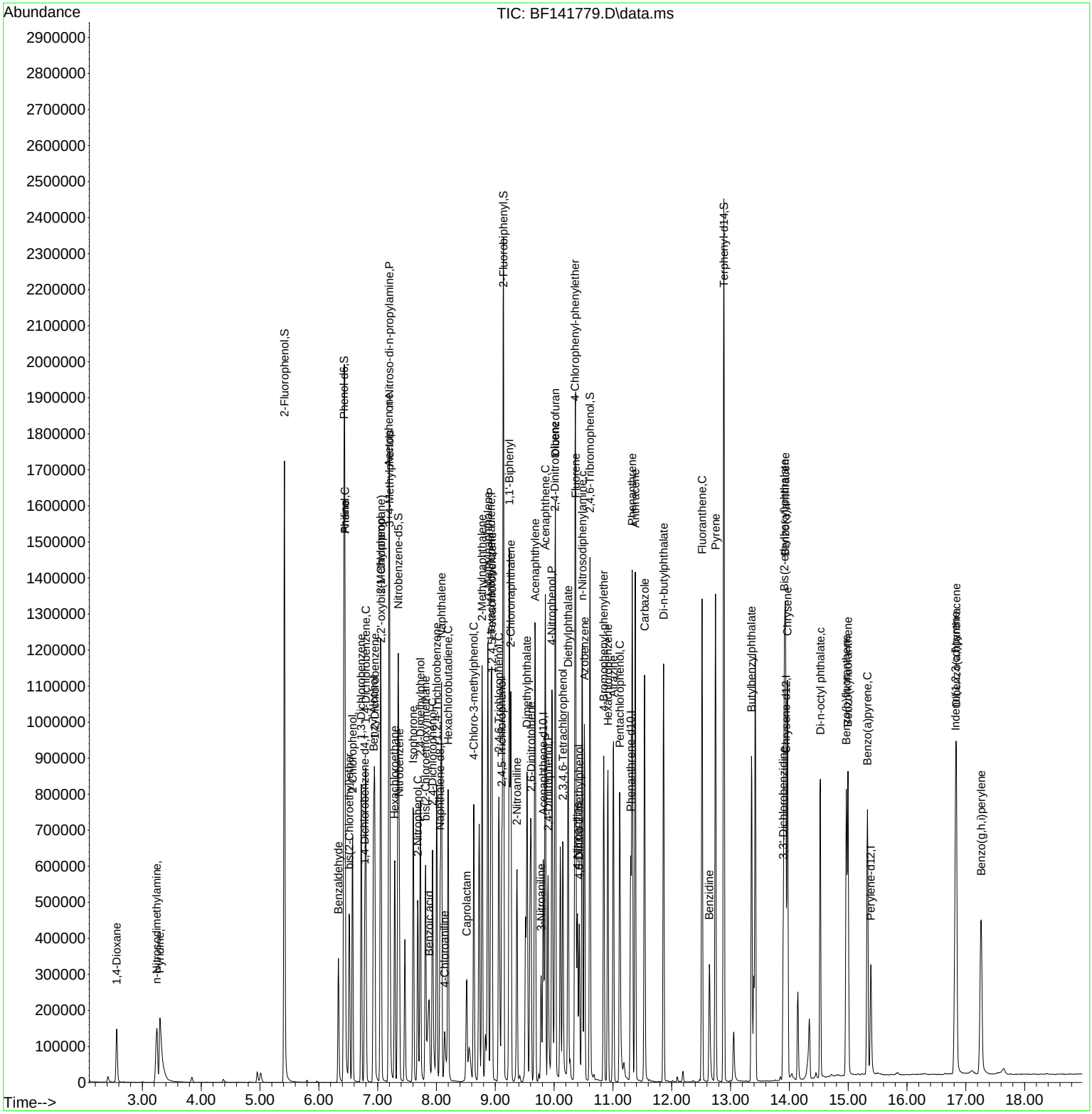
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	154444	41.382	ng	97
46) 1,1'-Biphenyl	9.239	154	655552	45.913	ng	99
47) 2-Chloronaphthalene	9.263	162	450581	42.675	ng	99
48) 2-Nitroaniline	9.369	65	141281	39.872	ng	93
49) Acenaphthylene	9.681	152	699167	44.521	ng	99
50) Dimethylphthalate	9.539	163	547408	43.783	ng	100
51) 2,6-Dinitrotoluene	9.610	165	118503	43.357	ng	92
52) Acenaphthene	9.851	154	430902	40.813	ng	99
53) 3-Nitroaniline	9.781	138	68149	23.166	ng	96
54) 2,4-Dinitrophenol	9.898	184	137452	84.617	ng	86
55) Dibenzofuran	10.022	168	633174	40.858	ng	98
56) 4-Nitrophenol	9.963	139	154836	70.904	ng	91
57) 2,4-Dinitrotoluene	10.016	165	160235	44.038	ng	99
58) Fluorene	10.369	166	512509	42.772	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	138935	43.239	ng	91
60) Diethylphthalate	10.239	149	528846	42.991	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	251620	43.650	ng	97
62) 4-Nitroaniline	10.398	138	122204	40.911	ng	91
63) Azobenzene	10.516	77	485037	39.663	ng	94
65) 4,6-Dinitro-2-methylph...	10.428	198	90100	40.690	ng	92
66) n-Nitrosodiphenylamine	10.480	169	446646	43.772	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	160039	44.922	ng	99
68) Hexachlorobenzene	10.916	284	166815	45.472	ng	97
69) Atrazine	11.010	200	177595	58.015	ng	99
70) Pentachlorophenol	11.116	266	163676	69.776	ng	99
71) Phenanthrene	11.327	178	763853	43.533	ng	99
72) Anthracene	11.380	178	794235	45.028	ng	100
73) Carbazole	11.539	167	678398	42.745	ng	99
74) Di-n-butylphthalate	11.863	149	830425	45.315	ng	100
75) Fluoranthene	12.516	202	786182	42.262	ng	100
77) Benzidine	12.639	184	219297	48.577	ng	99
78) Pyrene	12.745	202	789622	45.315	ng	99
80) Butylbenzylphthalate	13.357	149	299921	49.692	ng	99
81) Benzo(a)anthracene	13.933	228	593989	43.653	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	114409	29.352	ng	97
83) Chrysene	13.968	228	541257	43.080	ng	100
84) Bis(2-ethylhexyl)phtha...	13.916	149	385680	56.657	ng	99
85) Di-n-octyl phthalate	14.527	149	562563	57.930	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	542957	47.839	ng	99
88) Benzo(b)fluoranthene	14.968	252	545602	44.238	ng	99
89) Benzo(k)fluoranthene	14.998	252	408670	38.804	ng	98
90) Benzo(a)pyrene	15.327	252	459925	46.086	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	440906	47.943	ng	98
92) Benzo(g,h,i)perylene	17.262	276	424315	44.091	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141779.D
Acq On : 26 Feb 2025 13:26
Operator : RC/JU
Sample : PB166870BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166870BS

Quant Time: Feb 26 13:46:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141784.D
Acq On : 26 Feb 2025 15:59
Operator : RC/JU
Sample : Q1422-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01MS

Quant Time: Feb 26 16:22:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	79854	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	322962	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	177311	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	312658	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	214920	20.000	ng		-0.02
86) Perylene-d12	15.386	264	184312	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	463240	90.946	ng		0.00
7) Phenol-d6	6.428	99	564614	87.702	ng		-0.01
23) Nitrobenzene-d5	7.345	82	360039	58.146	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	163946	92.044	ng		-0.02
45) 2-Fluorobiphenyl	9.134	172	686035	59.609	ng		-0.02
79) Terphenyl-d14	12.886	244	817250	64.194	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.528	88	87029	42.452	ng		93
3) Pyridine	3.257	79	198020	40.592	ng		90
4) n-Nitrosodimethylamine	3.210	42	113138	35.025	ng		83
6) Aniline	6.446	93	181638	30.077	ng	#	76
8) 2-Chlorophenol	6.569	128	239317	43.482	ng		99
9) Benzaldehyde	6.334	77	89246	26.087	ng		95
10) Phenol	6.440	94	287634	42.927	ng		92
11) bis(2-Chloroethyl)ether	6.516	93	213979	42.516	ng		98
12) 1,3-Dichlorobenzene	6.722	146	245905	42.321	ng		97
13) 1,4-Dichlorobenzene	6.798	146	252675	42.562	ng		97
14) 1,2-Dichlorobenzene	6.951	146	239585	43.483	ng		99
15) Benzyl Alcohol	6.928	79	199900	40.491	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.057	45	318601	36.981	ng		61
17) 2-Methylphenol	7.051	107	182215	42.306	ng		93
18) Hexachloroethane	7.287	117	93229	42.433	ng		98
19) n-Nitroso-di-n-propyla...	7.198	70	159978	41.543	ng		92
20) 3+4-Methylphenols	7.204	107	241904	44.194	ng	#	73
22) Acetophenone	7.193	105	364098	45.320	ng	#	90
24) Nitrobenzene	7.369	77	238455	39.493	ng		95
25) Isophorone	7.604	82	426486	43.198	ng		99
26) 2-Nitrophenol	7.681	139	128143	42.658	ng		93
27) 2,4-Dimethylphenol	7.728	122	189805	54.086	ng		97
28) bis(2-Chloroethoxy)met...	7.816	93	269122	42.540	ng		99
29) 2,4-Dichlorophenol	7.934	162	199953	42.170	ng		99
30) 1,2,4-Trichlorobenzene	8.004	180	213563	41.361	ng		100
31) Naphthalene	8.087	128	679030	40.391	ng		100
32) Benzoic acid	7.863	122	101995	27.981	ng		95
33) 4-Chloroaniline	8.140	127	75693	12.896	ng		97
34) Hexachlorobutadiene	8.198	225	131485	42.417	ng		99
35) Caprolactam	8.510	113	68349m	47.344	ng		
36) 4-Chloro-3-methylphenol	8.634	107	214849	40.906	ng		98
37) 2-Methylnaphthalene	8.775	142	437338	39.977	ng		99
38) 1-Methylnaphthalene	8.875	142	423635	39.983	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	238674	46.527	ng		99
41) Hexachlorocyclopentadiene	8.928	237	187870	110.109	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	137394	41.440	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141784.D
Acq On : 26 Feb 2025 15:59
Operator : RC/JU
Sample : Q1422-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01MS

Quant Time: Feb 26 16:22:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

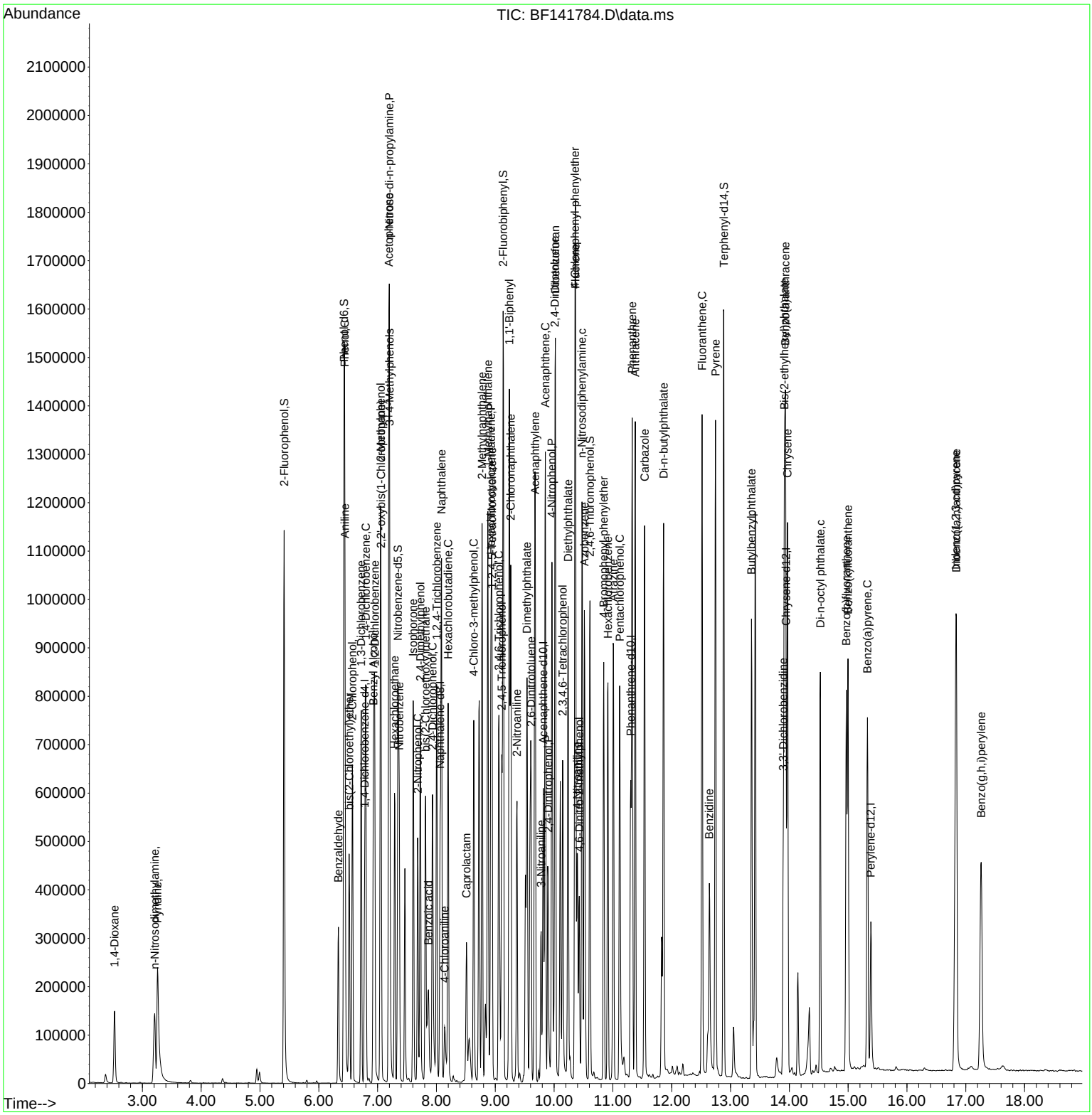
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	149521	41.612	ng		97
46) 1,1'-Biphenyl	9.239	154	639642	46.531	ng		100
47) 2-Chloronaphthalene	9.263	162	434391	42.733	ng		98
48) 2-Nitroaniline	9.369	65	138675	40.650	ng		91
49) Acenaphthylene	9.681	152	666305	44.069	ng		99
50) Dimethylphthalate	9.539	163	514964	42.781	ng		99
51) 2,6-Dinitrotoluene	9.610	165	116422	44.243	ng		90
52) Acenaphthene	9.851	154	416385	40.964	ng		100
53) 3-Nitroaniline	9.781	138	70858	25.019	ng		97
54) 2,4-Dinitrophenol	9.898	184	99584	63.676	ng	#	85
55) Dibenzofuran	10.022	168	601769	40.333	ng		99
56) 4-Nitrophenol	9.963	139	159933	76.071	ng		93
57) 2,4-Dinitrotoluene	10.016	165	151157	43.150	ng		98
58) Fluorene	10.363	166	489898	42.466	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	123256	39.843	ng	#	95
60) Diethylphthalate	10.239	149	507703	42.869	ng		99
61) 4-Chlorophenyl-phenyle...	10.357	204	242214	43.643	ng		96
62) 4-Nitroaniline	10.398	138	122560	42.617	ng		94
63) Azobenzene	10.516	77	499266	42.405	ng		94
65) 4,6-Dinitro-2-methylph...	10.428	198	78485	36.137	ng		88
66) n-Nitrosodiphenylamine	10.475	169	431958	43.159	ng		99
67) 4-Bromophenyl-phenylether	10.845	248	150121	42.961	ng		100
68) Hexachlorobenzene	10.916	284	158295	43.992	ng		97
69) Atrazine	11.010	200	165560	55.140	ng		99
70) Pentachlorophenol	11.116	266	154259	67.046	ng		99
71) Phenanthrene	11.328	178	738439	42.906	ng		100
72) Anthracene	11.381	178	768272	44.407	ng		100
73) Carbazole	11.539	167	671363	43.127	ng		99
74) Di-n-butylphthalate	11.863	149	801177	44.573	ng		100
75) Fluoranthene	12.516	202	783278	42.928	ng		100
77) Benzidine	12.639	184	237535	50.114	ng		100
78) Pyrene	12.745	202	801068	43.785	ng		99
80) Butylbenzylphthalate	13.357	149	310087	48.933	ng		98
81) Benzo(a)anthracene	13.933	228	631417	44.197	ng		99
82) 3,3'-Dichlorobenzidine	13.898	252	133088	32.521	ng		99
83) Chrysene	13.969	228	559008	42.377	ng		100
84) Bis(2-ethylhexyl)phtha...	13.916	149	400847	56.085	ng		99
85) Di-n-octyl phthalate	14.527	149	557047	54.634	ng		96
87) Indeno(1,2,3-cd)pyrene	16.833	276	554914	48.726	ng		99
88) Benzo(b)fluoranthene	14.969	252	457903	37.000	ng		99
89) Benzo(k)fluoranthene	14.998	252	406870	38.501	ng		99
90) Benzo(a)pyrene	15.327	252	451992	45.136	ng		99
91) Dibenzo(a,h)anthracene	16.839	278	447722	48.518	ng		99
92) Benzo(g,h,i)perylene	17.262	276	432991	44.839	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141784.D
Acq On : 26 Feb 2025 15:59
Operator : RC/JU
Sample : Q1422-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01MS

Quant Time: Feb 26 16:22:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141785.D
Acq On : 26 Feb 2025 16:28
Operator : RC/JU
Sample : Q1422-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01MSD

Quant Time: Feb 26 16:50:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	75036	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	298435	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	168527	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	293184	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	207473	20.000	ng		-0.02
86) Perylene-d12	15.386	264	181155	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	425044	88.805	ng		0.00
7) Phenol-d6	6.428	99	522001	86.289	ng		-0.01
23) Nitrobenzene-d5	7.345	82	325749	56.932	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	150690	89.011	ng		-0.02
45) 2-Fluorobiphenyl	9.134	172	630389	57.629	ng		-0.02
79) Terphenyl-d14	12.880	244	756858	61.584	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.516	88	80900	41.996	ng		92
3) Pyridine	3.252	79	178636	38.969	ng		92
4) n-Nitrosodimethylamine	3.199	42	101589	33.469	ng		84
6) Aniline	6.446	93	171258	30.180	ng	#	83
8) 2-Chlorophenol	6.569	128	217485	42.053	ng		99
9) Benzaldehyde	6.334	77	81158	25.246	ng		96
10) Phenol	6.440	94	263836	41.903	ng		93
11) bis(2-Chloroethyl)ether	6.516	93	195079	41.250	ng		97
12) 1,3-Dichlorobenzene	6.722	146	227029	41.581	ng		97
13) 1,4-Dichlorobenzene	6.798	146	231957	41.581	ng		98
14) 1,2-Dichlorobenzene	6.951	146	221610	42.803	ng		97
15) Benzyl Alcohol	6.928	79	182856	39.417	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	293439	36.247	ng		66
17) 2-Methylphenol	7.045	107	166674	41.183	ng		97
18) Hexachloroethane	7.287	117	84339	40.852	ng		98
19) n-Nitroso-di-n-propyla...	7.193	70	145832	40.301	ng		93
20) 3+4-Methylphenols	7.204	107	222606	43.280	ng	#	71
22) Acetophenone	7.193	105	329827	44.429	ng	#	90
24) Nitrobenzene	7.363	77	217972	39.067	ng		97
25) Isophorone	7.604	82	387811	42.509	ng		98
26) 2-Nitrophenol	7.681	139	115080	41.458	ng		94
27) 2,4-Dimethylphenol	7.722	122	171743	52.961	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	241119	41.246	ng		99
29) 2,4-Dichlorophenol	7.934	162	181869	41.509	ng		99
30) 1,2,4-Trichlorobenzene	8.004	180	194338	40.731	ng		99
31) Naphthalene	8.087	128	624072	40.173	ng		100
32) Benzoic acid	7.863	122	99126	29.429	ng		95
33) 4-Chloroaniline	8.145	127	74597	13.754	ng		97
34) Hexachlorobutadiene	8.198	225	118239	41.279	ng		100
35) Caprolactam	8.510	113	64715m	48.511	ng		
36) 4-Chloro-3-methylphenol	8.634	107	195052	40.189	ng		98
37) 2-Methylnaphthalene	8.775	142	401831	39.750	ng		99
38) 1-Methylnaphthalene	8.875	142	389031	39.734	ng		100
40) 1,2,4,5-Tetrachloroben...	8.940	216	219439	45.007	ng		99
41) Hexachlorocyclopentadiene	8.928	237	156048	96.225	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	125370	39.784	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141785.D
Acq On : 26 Feb 2025 16:28
Operator : RC/JU
Sample : Q1422-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01MSD

Quant Time: Feb 26 16:50:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

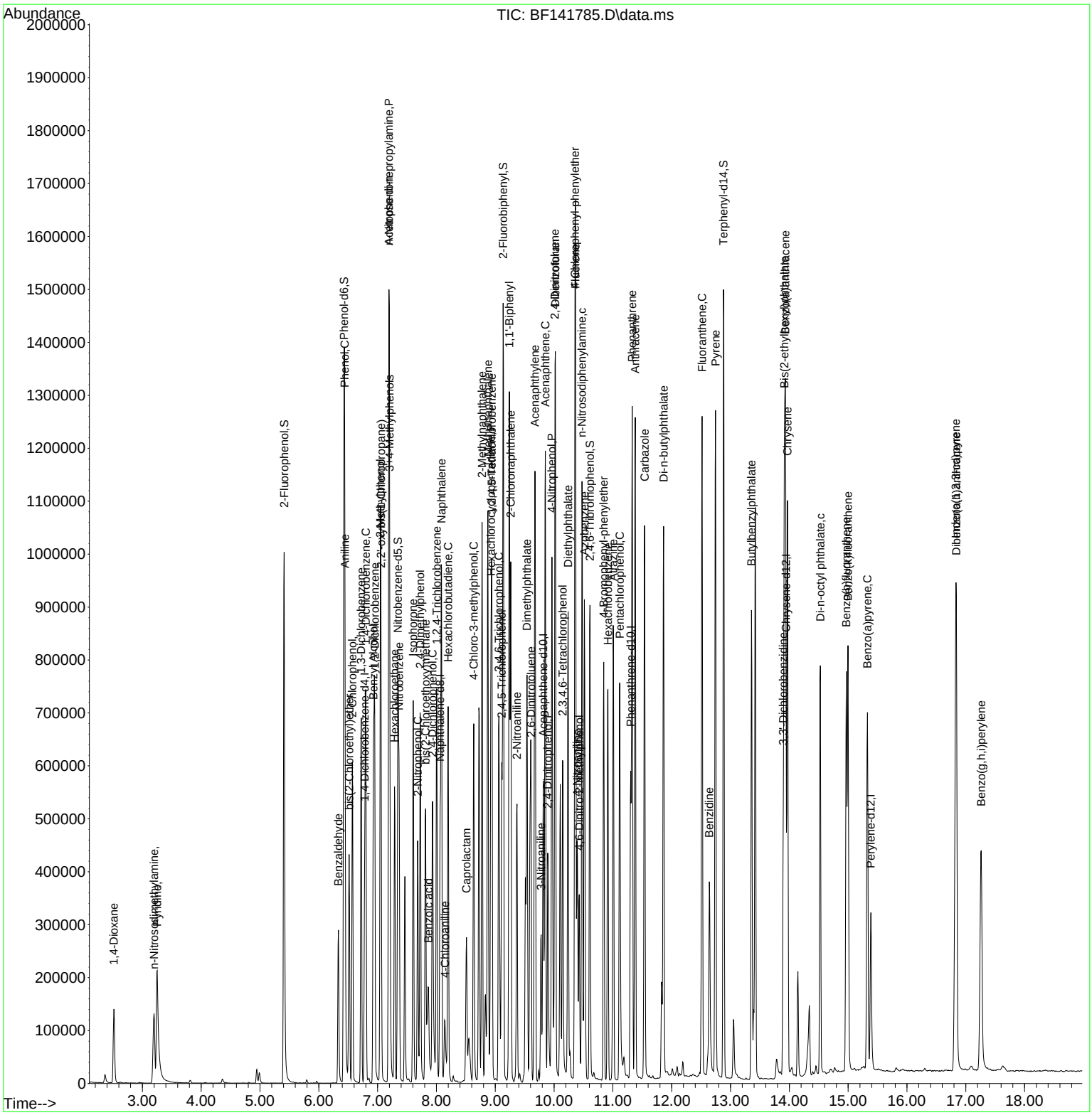
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	138616	40.588	ng	97
46) 1,1'-Biphenyl	9.239	154	585493	44.812	ng	100
47) 2-Chloronaphthalene	9.263	162	395944	40.981	ng	99
48) 2-Nitroaniline	9.369	65	127210	39.233	ng	90
49) Acenaphthylene	9.675	152	611703	42.566	ng	99
50) Dimethylphthalate	9.539	163	474328	41.459	ng	99
51) 2,6-Dinitrotoluene	9.610	165	105139	42.038	ng	91
52) Acenaphthene	9.851	154	384408	39.789	ng	100
53) 3-Nitroaniline	9.781	138	64657	24.019	ng	95
54) 2,4-Dinitrophenol	9.892	184	102814	69.168	ng	92
55) Dibenzofuran	10.022	168	552640	38.971	ng	99
56) 4-Nitrophenol	9.963	139	153270	76.701	ng	90
57) 2,4-Dinitrotoluene	10.016	165	141687	42.555	ng	98
58) Fluorene	10.363	166	454938	41.491	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.145	232	112869	38.387	ng	95
60) Diethylphthalate	10.239	149	450114	39.987	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	222533	42.187	ng	95
62) 4-Nitroaniline	10.392	138	111886	40.933	ng	96
63) Azobenzene	10.516	77	456115	40.760	ng	93
65) 4,6-Dinitro-2-methylph...	10.428	198	73772	36.223	ng	87
66) n-Nitrosodiphenylamine	10.475	169	396168	42.212	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	139213	42.486	ng	99
68) Hexachlorobenzene	10.916	284	145316	43.068	ng	97
69) Atrazine	11.004	200	152593	54.197	ng	99
70) Pentachlorophenol	11.116	266	143771	66.638	ng	99
71) Phenanthrene	11.328	178	680677	42.177	ng	100
72) Anthracene	11.381	178	711386	43.850	ng	100
73) Carbazole	11.539	167	621476	42.575	ng	99
74) Di-n-butylphthalate	11.863	149	735407	43.631	ng	100
75) Fluoranthene	12.516	202	722689	42.238	ng	100
77) Benzidine	12.639	184	232919	50.904	ng	100
78) Pyrene	12.745	202	744877	42.175	ng	100
80) Butylbenzylphthalate	13.357	149	289238	47.281	ng	99
81) Benzo(a)anthracene	13.933	228	587897	42.628	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	126340	31.980	ng	97
83) Chrysene	13.969	228	532846	41.843	ng	100
84) Bis(2-ethylhexyl)phtha...	13.916	149	379316	54.977	ng	100
85) Di-n-octyl phthalate	14.527	149	526238	53.464	ng	96
87) Indeno(1,2,3-cd)pyrene	16.833	276	526140	47.005	ng	99
88) Benzo(b)fluoranthene	14.969	252	442364	36.368	ng	99
89) Benzo(k)fluoranthene	14.998	252	457026	44.001	ng	99
90) Benzo(a)pyrene	15.327	252	428789	43.565	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	426195	46.990	ng	99
92) Benzo(g,h,i)perylene	17.262	276	411835	43.391	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141785.D
Acq On : 26 Feb 2025 16:28
Operator : RC/JU
Sample : Q1422-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-154-SB01MSD

Quant Time: Feb 26 16:50:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	bf020625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141474.D	Acenaphthene	Jagrut	2/7/2025 3:49:22 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software
SSTDICC020	BF141475.D	Acenaphthene	Jagrut	2/7/2025 3:49:24 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF022625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166870BS	BF141779.D	Caprolactam	anahy	2/27/2025 10:08:39 AM	Jagrut	2/27/2025 12:19:45 PM	Peak Integrated by Software
Q1422-01MS	BF141784.D	Caprolactam	anahy	2/27/2025 10:12:08 AM	Jagrut	2/27/2025 12:19:51 PM	Peak Integrated by Software
Q1422-01MSD	BF141785.D	Caprolactam	anahy	2/27/2025 10:13:30 AM	Jagrut	2/27/2025 12:19:53 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141471.D	06 Feb 2025 10:41	RC/JU	Ok
2	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07	RC/JU	Ok
3	SSTDICC005	BF141473.D	06 Feb 2025 11:34	RC/JU	Ok
4	SSTDICC010	BF141474.D	06 Feb 2025 12:00	RC/JU	Ok,M
5	SSTDICC020	BF141475.D	06 Feb 2025 12:26	RC/JU	Ok,M
6	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	RC/JU	Ok
7	SSTDICC050	BF141477.D	06 Feb 2025 13:21	RC/JU	Ok
8	SSTDICC060	BF141478.D	06 Feb 2025 13:47	RC/JU	Ok
9	SSTDICC080	BF141479.D	06 Feb 2025 14:14	RC/JU	Ok
10	SSTDICV040	BF141480.D	06 Feb 2025 15:03	RC/JU	Ok
11	PB166563BL	BF141481.D	06 Feb 2025 15:43	RC/JU	Ok
12	PB166468BS	BF141482.D	06 Feb 2025 16:09	RC/JU	Ok,M
13	PB166468BSD	BF141483.D	06 Feb 2025 16:36	RC/JU	Ok,M
14	PB166468BL	BF141484.D	06 Feb 2025 17:02	RC/JU	Ok
15	Q1214-01RE	BF141485.D	06 Feb 2025 17:34	RC/JU	Confirms
16	Q1309-01	BF141486.D	06 Feb 2025 18:00	RC/JU	Ok
17	Q1309-05	BF141487.D	06 Feb 2025 18:27	RC/JU	Ok
18	Q1309-09	BF141488.D	06 Feb 2025 18:53	RC/JU	Ok
19	Q1309-13	BF141489.D	06 Feb 2025 19:19	RC/JU	Ok
20	Q1309-13MS	BF141490.D	06 Feb 2025 19:45	RC/JU	Ok,M
21	Q1309-13MSD	BF141491.D	06 Feb 2025 20:11	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1309-17	BF141492.D	06 Feb 2025 20:37	RC/JU	Ok
23	Q1309-21	BF141493.D	06 Feb 2025 21:03	RC/JU	Ok
24	Q1216-04	BF141494.D	06 Feb 2025 21:30	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM				
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM				
SubDirectory	BF022625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

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	BF141774.D	26 Feb 2025 10:16	RC/JU	Ok
2	SSTDCCC040	BF141775.D	26 Feb 2025 10:45	RC/JU	Ok
3	PB166853BL	BF141776.D	26 Feb 2025 11:49	RC/JU	Ok
4	PB166853BS	BF141777.D	26 Feb 2025 12:19	RC/JU	Ok,M
5	PB166870BL	BF141778.D	26 Feb 2025 12:56	RC/JU	Ok
6	PB166870BS	BF141779.D	26 Feb 2025 13:26	RC/JU	Ok,M
7	PB166875BL	BF141780.D	26 Feb 2025 13:55	RC/JU	Ok
8	PB166875BS	BF141781.D	26 Feb 2025 14:24	RC/JU	Ok,M
9	PB166875BSD	BF141782.D	26 Feb 2025 14:54	RC/JU	Ok,M
10	Q1422-01	BF141783.D	26 Feb 2025 15:29	RC/JU	Ok
11	Q1422-01MS	BF141784.D	26 Feb 2025 15:59	RC/JU	Ok,M
12	Q1422-01MSD	BF141785.D	26 Feb 2025 16:28	RC/JU	Ok,M
13	Q1422-02	BF141786.D	26 Feb 2025 16:57	RC/JU	Ok
14	Q1415-06	BF141787.D	26 Feb 2025 17:27	RC/JU	Ok
15	Q1415-05	BF141788.D	26 Feb 2025 17:56	RC/JU	Ok
16	Q1427-01	BF141789.D	26 Feb 2025 18:25	RC/JU	Ok,M
17	Q1420-05	BF141790.D	26 Feb 2025 18:55	RC/JU	Ok
18	Q1428-01	BF141791.D	26 Feb 2025 19:25	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/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	BF141471.D	06 Feb 2025 10:41		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141473.D	06 Feb 2025 11:34	Compound #32,41,54 and #65 removed from 5PPM	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141474.D	06 Feb 2025 12:00		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141475.D	06 Feb 2025 12:26		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141477.D	06 Feb 2025 13:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141478.D	06 Feb 2025 13:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141479.D	06 Feb 2025 14:14	Compound #9 removed from 80ppm	RC/JU	Ok
10	SSTDICV040	ICVBF020625	BF141480.D	06 Feb 2025 15:03		RC/JU	Ok
11	PB166563BL	PB166563BL	BF141481.D	06 Feb 2025 15:43		RC/JU	Ok
12	PB166468BS	PB166468BS	BF141482.D	06 Feb 2025 16:09		RC/JU	Ok,M
13	PB166468BSD	PB166468BSD	BF141483.D	06 Feb 2025 16:36		RC/JU	Ok,M
14	PB166468BL	PB166468BL	BF141484.D	06 Feb 2025 17:02		RC/JU	Ok
15	Q1214-01RE	PARAMUS-CONDENS/	BF141485.D	06 Feb 2025 17:34	Surrogate Fail	RC/JU	Confirms
16	Q1309-01	WC-2	BF141486.D	06 Feb 2025 18:00		RC/JU	Ok
17	Q1309-05	WC-3	BF141487.D	06 Feb 2025 18:27		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1309-09	WC-4	BF141488.D	06 Feb 2025 18:53		RC/JU	Ok
19	Q1309-13	WC-5	BF141489.D	06 Feb 2025 19:19		RC/JU	Ok
20	Q1309-13MS	WC-5MS	BF141490.D	06 Feb 2025 19:45		RC/JU	Ok,M
21	Q1309-13MSD	WC-5MSD	BF141491.D	06 Feb 2025 20:11		RC/JU	Ok,M
22	Q1309-17	WC-6	BF141492.D	06 Feb 2025 20:37		RC/JU	Ok
23	Q1309-21	WC-8	BF141493.D	06 Feb 2025 21:03		RC/JU	Ok
24	Q1216-04	JPP-18.1-012825	BF141494.D	06 Feb 2025 21:30		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

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	BF141774.D	26 Feb 2025 10:16		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141775.D	26 Feb 2025 10:45		RC/JU	Ok
3	PB166853BL	PB166853BL	BF141776.D	26 Feb 2025 11:49		RC/JU	Ok
4	PB166853BS	PB166853BS	BF141777.D	26 Feb 2025 12:19		RC/JU	Ok,M
5	PB166870BL	PB166870BL	BF141778.D	26 Feb 2025 12:56		RC/JU	Ok
6	PB166870BS	PB166870BS	BF141779.D	26 Feb 2025 13:26		RC/JU	Ok,M
7	PB166875BL	PB166875BL	BF141780.D	26 Feb 2025 13:55		RC/JU	Ok
8	PB166875BS	PB166875BS	BF141781.D	26 Feb 2025 14:24		RC/JU	Ok,M
9	PB166875BSD	PB166875BSD	BF141782.D	26 Feb 2025 14:54		RC/JU	Ok,M
10	Q1422-01	B-154-SB01	BF141783.D	26 Feb 2025 15:29		RC/JU	Ok
11	Q1422-01MS	B-154-SB01MS	BF141784.D	26 Feb 2025 15:59		RC/JU	Ok,M
12	Q1422-01MSD	B-154-SB01MSD	BF141785.D	26 Feb 2025 16:28		RC/JU	Ok,M
13	Q1422-02	B-154-SB02	BF141786.D	26 Feb 2025 16:57		RC/JU	Ok
14	Q1415-06	B-173-GW01	BF141787.D	26 Feb 2025 17:27		RC/JU	Ok
15	Q1415-05	FB02222025	BF141788.D	26 Feb 2025 17:56		RC/JU	Ok
16	Q1427-01	VNJ-227	BF141789.D	26 Feb 2025 18:25		RC/JU	Ok,M
17	Q1420-05	TP-2-WC	BF141790.D	26 Feb 2025 18:55		RC/JU	Ok
18	Q1428-01	NB-07-022525	BF141791.D	26 Feb 2025 19:25		RC/JU	Ok,M

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

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	

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166870

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 : 02/26/2025

Extraction Start Time : 08:35

Extraction End Date : 02/26/2025

Extraction End Time : 11:35

Concentration By: EH

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	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
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	EP2582
Baked Na2SO4	N/A	EP2589
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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
2/26/25	RS (Ext-Lab)	AC/SVOC
11:40	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166870

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 02/26/2025

Sample ID	Client Sample ID	Test	(g) mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166870BL	SBLK870	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U3-1
PB166870BS	SLCS870	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1422-01	B-154-SB01	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		3
Q1422-01MS	B-154-SB01MS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q1422-01MSD	B-154-SB01MSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		5
Q1422-02	B-154-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		6
Q1427-01	VNJ-227	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		U6-1
Q1428-01	NB-07-022525	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		2

RJ 2/26

* **Extracts relinquished on the same date as received.**

PB 168871 8:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1428 **WorkList ID :** 187888 **Department :** Extraction **Date :** 02-26-2025 08:30:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1422-01	B-154-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H33	02/23/2025	8270E
Q1422-02	B-154-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H33	02/23/2025	8270E
Q1427-01	VNJ-227	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H21	02/25/2025	8270E
Q1428-01	NB-07-022525	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H21	02/25/2025	8270E

Date/Time 2/26/25 8:30

Raw Sample Received by: RJ (Ext by)

Raw Sample Relinquished by:

Date/Time 2/26/25 8:55

Raw Sample Received by:

Raw Sample Relinquished by: RJ (Ext by)

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

LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25**			**02/25/25**
			SVOC-TCL BNA -20	8270E		02/26/25	02/26/25	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25**			**02/25/25**
			SVOC-TCL BNA -20	8270E		02/26/25	02/26/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1422 **Order ID:** Q1422

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**

SAMPLE DATA

Raw Data: **PP070070.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.07 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
PP070070.D	1	02/26/25 09:25	02/26/25 13:34	PB166872

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.80	U	3.80	19.2	ug/kg
11104-28-2	Aroclor-1221	7.20	U	7.20	19.2	ug/kg
11141-16-5	Aroclor-1232	3.80	U	3.80	19.2	ug/kg
53469-21-9	Aroclor-1242	3.80	U	3.80	19.2	ug/kg
12672-29-6	Aroclor-1248	8.90	U	8.90	19.2	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.2	ug/kg
37324-23-5	Aroclor-1262	5.20	U	5.20	19.2	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	19.2	ug/kg
11096-82-5	Aroclor-1260	3.30	U	3.30	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		30 (32) - 150 (144)	111%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		30 (32) - 150 (175)	89%	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: **PP070071.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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.3 Decanted:
Sample Wt/Vol:	30.03 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
PP070071.D	1	02/26/25 09:25	02/26/25 13:50	PB166872

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	19.5	ug/kg
11104-28-2	Aroclor-1221	7.30	U	7.30	19.5	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	19.5	ug/kg
53469-21-9	Aroclor-1242	3.90	U	3.90	19.5	ug/kg
12672-29-6	Aroclor-1248	9.00	U	9.00	19.5	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.5	ug/kg
37324-23-5	Aroclor-1262	5.20	U	5.20	19.5	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	19.5	ug/kg
11096-82-5	Aroclor-1260	3.30	U	3.30	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.6		30 (32) - 150 (144)	123%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		30 (32) - 150 (175)	95%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1422

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-PP069995.D	PIBLK-PP069995.D	Tetrachloro-m-xylene	1	20	21.9	109		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.8	109		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.6	108		70 (60)	130 (140)
I.BLK-PP070067.D	PIBLK-PP070067.D	Tetrachloro-m-xylene	1	20	18.5	92		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.6	93		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.1	96		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	19.6	98		70 (60)	130 (140)
PB166872BL	PB166872BL	Tetrachloro-m-xylene	1	20	26.3	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.1	126		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	27.1	135		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.8	119		30 (32)	150 (175)
PB166872BS	PB166872BS	Tetrachloro-m-xylene	1	20	26.9	134		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.5	128		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	26.1	130		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	26.5	133		30 (32)	150 (175)
Q1422-01	B-154-SB01	Tetrachloro-m-xylene	1	20	22.1	111		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	15.9	80		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	22.1	110		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	17.7	89		30 (32)	150 (175)
Q1422-02	B-154-SB02	Tetrachloro-m-xylene	1	20	23.2	116		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	18.5	93		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.6	123		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.0	95		30 (32)	150 (175)
Q1428-01MS	NB-07-022525MS	Tetrachloro-m-xylene	1	20	20.4	102		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.6	103		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.9	104		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.3	92		30 (32)	150 (175)
Q1428-01MSD	NB-07-022525MSD	Tetrachloro-m-xylene	1	20	19.8	99		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.4	102		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.4	107		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	17.7	89		30 (32)	150 (175)
I.BLK-PP070077.D	PIBLK-PP070077.D	Tetrachloro-m-xylene	1	20	18.4	92		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.3	86		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.6	93		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	16.8	84		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP070074.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:	**NB-07-022525MS**											
Q1428-01MS	AR1016	177.8	0	160	ug/kg	90				40 (55)	140 (146)	
	AR1260	177.8	0	162	ug/kg	91				40 (45)	140 (144)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP070075.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:	**NB-07-022525MSD**											
Q1428-01MSD	AR1016	177.7	0	158	ug/kg	89		1		40 (55)	140 (146)	30 (20)
	AR1260	177.7	0	156	ug/kg	88		3		40 (45)	140 (144)	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.: Q1422

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP070069.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166872BS	AR1016	166.6	175	ug/kg	105				40 (71)	140 (120)	
	AR1260	166.6	166	ug/kg	100				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166872BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab Sample ID: PB166872BL Lab File ID: PP070068.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 02/26/2025

Date Analyzed (1): 02/26/2025 Date Analyzed (2): 02/26/2025

Time Analyzed (1): 13:02 Time Analyzed (2): 13:02

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
PB166872BS	PB166872BS	PP070069.D	02/26/2025	02/26/2025
B-154-SB01	Q1422-01	PP070070.D	02/26/2025	02/26/2025
B-154-SB02	Q1422-02	PP070071.D	02/26/2025	02/26/2025
NB-07-022525MS	Q1428-01MS	PP070074.D	02/26/2025	02/26/2025
NB-07-022525MSD	Q1428-01MSD	PP070075.D	02/26/2025	02/26/2025

COMMENTS:

QC SAMPLE DATA

Raw Data: **PP070068.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:	PB166872BL	SDG No.:	Q1422
Lab Sample ID:	PB166872BL	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
PP070068.D	1	02/26/25 09:25	02/26/25 13:02	PB166872

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	2.90	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.1		30 (32) - 150 (144)	135%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.1		30 (32) - 150 (175)	126%	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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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:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	PIBLK-PP069995.D	SDG No.:	Q1422
Lab Sample ID:	I.BLK-PP069995.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
PP069995.D	1		02/24/25	PP022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		70 (60) - 130 (140)	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		70 (60) - 130 (140)	108%	SPK: 20

Comments:

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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:	02/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/26/25
Client Sample ID:	PIBLK-PP070067.D	SDG No.:	Q1422
Lab Sample ID:	I.BLK-PP070067.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
PP070067.D	1		02/26/25	PP022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		70 (60) - 130 (140)	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		70 (60) - 130 (140)	93%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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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:	02/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/26/25
Client Sample ID:	PIBLK-PP070077.D	SDG No.:	Q1422
Lab Sample ID:	I.BLK-PP070077.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
PP070077.D	1		02/26/25	PP022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.4		70 (60) - 130 (140)	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.8		70 (60) - 130 (140)	84%	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: **PP070069.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:	PB166872BS	SDG No.:	Q1422
Lab Sample ID:	PB166872BS	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
PP070069.D	1	02/26/25 09:25	02/26/25 13:18	PB166872

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	175		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	166		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.9		30 (32) - 150 (144)	134%	SPK: 20
2051-24-3	Decachlorobiphenyl	26.5		30 (32) - 150 (175)	133%	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: **PP070074.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:	02/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	NB-07-022525MS	SDG No.:	Q1422
Lab Sample ID:	Q1428-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	93.6 Decanted:
Sample Wt/Vol:	30.05 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
PP070074.D	1	02/26/25 09:25	02/26/25 14:55	PB166872

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	160		3.60	18.1	ug/kg
11104-28-2	Aroclor-1221	6.80	U	6.80	18.1	ug/kg
11141-16-5	Aroclor-1232	3.60	U	3.60	18.1	ug/kg
53469-21-9	Aroclor-1242	3.60	U	3.60	18.1	ug/kg
12672-29-6	Aroclor-1248	8.40	U	8.40	18.1	ug/kg
11097-69-1	Aroclor-1254	2.90	U	2.90	18.1	ug/kg
37324-23-5	Aroclor-1262	4.90	U	4.90	18.1	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	18.1	ug/kg
11096-82-5	Aroclor-1260	162		3.10	18.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.9		30 (32) - 150 (144)	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.6		30 (32) - 150 (175)	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: **PP070075.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	NB-07-022525MSD	SDG No.:	Q1422
Lab Sample ID:	Q1428-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	93.6 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
PP070075.D	1	02/26/25 09:25	02/26/25 15:12	PB166872

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	158		3.60	18.1	ug/kg
11104-28-2	Aroclor-1221	6.80	U	6.80	18.1	ug/kg
11141-16-5	Aroclor-1232	3.60	U	3.60	18.1	ug/kg
53469-21-9	Aroclor-1242	3.60	U	3.60	18.1	ug/kg
12672-29-6	Aroclor-1248	8.40	U	8.40	18.1	ug/kg
11097-69-1	Aroclor-1254	2.90	U	2.90	18.1	ug/kg
37324-23-5	Aroclor-1262	4.90	U	4.90	18.1	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	18.1	ug/kg
11096-82-5	Aroclor-1260	156		3.10	18.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.4		30 (32) - 150 (144)	107%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		30 (32) - 150 (175)	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

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1016-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1016-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1016-5	(5)	6.15	6.15	6.16	6.15	6.15	6.15	6.05	6.25
Aroclor-1260-1	(1)	7.27	7.27	7.28	7.27	7.28	7.27	7.17	7.37
Aroclor-1260-2	(2)	7.52	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Aroclor-1260-3	(3)	7.88	7.89	7.89	7.88	7.89	7.89	7.79	7.99
Aroclor-1260-4	(4)	8.11	8.11	8.11	8.11	8.11	8.11	8.01	8.21
Aroclor-1260-5	(5)	8.43	8.43	8.43	8.43	8.43	8.43	8.33	8.53
Decachlorobiphenyl		10.25	10.26	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene		4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63
Aroclor-1242-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1242-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1242-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1242-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.25	10.26	10.25	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.53	4.53	4.43	4.63
Aroclor-1248-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1248-2	(2)	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Aroclor-1248-3	(3)	6.15	6.16	6.15	6.15	6.15	6.15	6.05	6.25
Aroclor-1248-4	(4)	6.55	6.56	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1248-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.26	10.26	10.26	10.25	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.53	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1254-1	(1)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-2	(2)	6.75	6.74	6.75	6.75	6.74	6.75	6.65	6.85
Aroclor-1254-3	(3)	7.11	7.11	7.11	7.11	7.11	7.11	7.01	7.21
Aroclor-1254-4	(4)	7.39	7.39	7.39	7.39	7.39	7.39	7.29	7.49
Aroclor-1254-5	(5)	7.81	7.80	7.81	7.81	7.81	7.81	7.71	7.91
Decachlorobiphenyl		10.26	10.25	10.26	10.26	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1268-1	(1)	8.74	8.75	8.75	8.74	8.75	8.75	8.65	8.85
Aroclor-1268-2	(2)	8.84	8.84	8.84	8.84	8.84	8.84	8.74	8.94
Aroclor-1268-3	(3)	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
Aroclor-1268-4	(4)	9.49	9.49	9.49	9.49	9.49	9.49	9.39	9.59
Aroclor-1268-5	(5)	9.91	9.91	9.91	9.91	9.91	9.91	9.81	10.01

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.25	10.25	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene	4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63

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Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1016-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1016-4	(4)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-5	(5)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1260-1	(1)	6.41	6.41	6.41	6.41	6.41	6.41	6.31	6.51
Aroclor-1260-2	(2)	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Aroclor-1260-3	(3)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Aroclor-1260-4	(4)	7.23	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-5	(5)	7.47	7.47	7.47	7.47	7.47	7.47	7.37	7.57
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1242-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1242-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1242-4	(4)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1242-5	(5)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1248-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1248-2	(2)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-3	(3)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1248-4	(4)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1248-5	(5)	5.77	5.77	5.77	5.77	5.77	5.77	5.67	5.87
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1254-1	(1)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1254-2	(2)	5.88	5.88	5.88	5.88	5.87	5.88	5.78	5.98
Aroclor-1254-3	(3)	6.28	6.28	6.28	6.28	6.28	6.28	6.18	6.38
Aroclor-1254-4	(4)	6.51	6.51	6.51	6.51	6.51	6.51	6.41	6.61
Aroclor-1254-5	(5)	6.93	6.93	6.93	6.93	6.93	6.93	6.83	7.03
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1268-1	(1)	7.75	7.75	7.75	7.75	7.75	7.75	7.65	7.85
Aroclor-1268-2	(2)	7.81	7.82	7.82	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-3	(3)	8.02	8.02	8.02	8.02	8.02	8.02	7.92	8.12
Aroclor-1268-4	(4)	8.32	8.32	8.32	8.31	8.32	8.32	8.22	8.42
Aroclor-1268-5	(5)	8.62	8.62	8.62	8.62	8.62	8.62	8.52	8.72

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene	3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	45557625	47855512	49968516	54800208	50948980	49826168	7
Aroclor-1016-2	(2)	66706952	67781012	72991154	76640772	69769920	70777962	6
Aroclor-1016-3	(3)	40794671	44579197	45146958	47844192	41247180	43922440	7
Aroclor-1016-4	(4)	33978080	35043389	37559532	39668600	35057220	36261364	6
Aroclor-1016-5	(5)	31514906	31680175	34068042	35364724	35064900	33538549	5
Aroclor-1260-1	(1)	54823994	55486535	59388846	62695304	59405260	58359988	6
Aroclor-1260-2	(2)	73383444	75987972	80712800	85961116	92581060	81725278	9
Aroclor-1260-3	(3)	59489338	60560020	64011918	67792592	61951460	62761066	5
Aroclor-1260-4	(4)	58704582	59596489	63141360	67201512	68361020	63400993	7
Aroclor-1260-5	(5)	124764910	128178828	134805260	140592412	127581700	131184622	5
Decachlorobiphenyl		1071742430	1139629213	1165555660	1227723520	1090515400	1139033245	5
Tetrachloro-m-xylene		1433727050	1435859520	1533424440	1590932200	1344174400	1467623522	7
Aroclor-1242-1	(1)	38359202	40766156	41566668	47963164	43620760	42455190	9
Aroclor-1242-2	(2)	56757612	55666953	60328714	62664932	52294440	57542530	7
Aroclor-1242-3	(3)	34692482	36785992	38528310	46539712	33080140	37925327	14
Aroclor-1242-4	(4)	28738709	28291829	32018112	32372976	27652280	29814781	7
Aroclor-1242-5	(5)	32588629	32785485	35429746	39255208	36117200	35235254	8
Decachlorobiphenyl		1021050090	1049520227	1099648880	1125224680	979176800	1054924135	6
Tetrachloro-m-xylene		1392047690	1350066600	1467421460	1456806320	1242599600	1381788334	7
Aroclor-1248-1	(1)	29585124	31433301	32559076	36305496	33667780	32710155	8
Aroclor-1248-2	(2)	39473771	42013749	42864276	46958912	39450360	42152214	7
Aroclor-1248-3	(3)	43926772	44170904	46948106	50004072	40811360	45172243	8
Aroclor-1248-4	(4)	53918087	55655911	58640506	66304332	60297700	58963307	8
Aroclor-1248-5	(5)	51833391	52919351	56894804	67563228	56719440	57186043	11
Decachlorobiphenyl		1044729320	1067835560	1119982260	1186291160	1031748600	1090117380	6
Tetrachloro-m-xylene		1393266240	1426265507	1481945040	1527838200	1310175600	1427898117	6
Aroclor-1254-1	(1)	51156577	57570420	60622162	67008468	47144000	56700325	14
Aroclor-1254-2	(2)	78872042	81254612	86985854	93340172	97974740	87685484	9
Aroclor-1254-3	(3)	79973406	82322503	87641586	92940192	102754200	89126377	10
Aroclor-1254-4	(4)	66856800	68050653	73453394	76814612	87380160	74511124	11
Aroclor-1254-5	(5)	65315189	68448207	69620926	72356948	60070200	67162294	7
Decachlorobiphenyl		1075591380	1094765307	1221801800	1207489520	1097348200	1139399241	6
Tetrachloro-m-xylene		1443804100	1475957520	1555264320	1605313440	1392239200	1494515716	6
Aroclor-1268-1	(1)	188433469	184749517	193628348	206851508	186804180	192093404	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	162697797	159627413	168307400	177293676	160000200	165585297	4
Aroclor-1268-3	(3)	141621356	137143849	145386650	153273656	140094780	143504058	4
Aroclor-1268-4	(4)	63392961	60284985	64357574	66970196	60240320	63049207	5
Aroclor-1268-5	(5)	414016384	401287087	418333378	444189832	401775920	415920520	4
Decachlorobiphenyl		1839528480	1828279133	1916502300	2031355480	1847859400	1892704959	4
Tetrachloro-m-xylene		1501238100	1376017987	1532711540	1621137720	1417123400	1489645749	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	29885830	30191223	33586918	36186236	37142680	33398577	10
Aroclor-1016-2	(2)	42247324	42370143	46984138	50510676	50858960	46594248	9
Aroclor-1016-3	(3)	23325129	22666977	25816242	27757500	25596220	25032414	8
Aroclor-1016-4	(4)	18421261	17991491	20585360	22152124	21203180	20070683	9
Aroclor-1016-5	(5)	23822938	23028484	26536406	28616852	27728040	25946544	9
Aroclor-1260-1	(1)	44977992	45171227	49550340	56779968	51216800	49539265	10
Aroclor-1260-2	(2)	59688698	59926561	64720792	71640216	71124240	65420101	9
Aroclor-1260-3	(3)	52251359	51461445	57261004	62988144	77648420	60322074	18
Aroclor-1260-4	(4)	44361395	45109507	48615116	51524344	54726600	48867392	9
Aroclor-1260-5	(5)	111484150	113477796	119592622	125243744	126075940	119174850	6
Decachlorobiphenyl		984571270	1029317907	1118262220	1135932120	1152437600	1084104223	7
Tetrachloro-m-xylene		879784240	907640400	952717360	1058760600	981262000	956032920	7
Aroclor-1242-1	(1)	25489035	24475017	27848416	27117444	28407820	26667546	6
Aroclor-1242-2	(2)	35977820	35199769	38539928	39076044	37212540	37201220	4
Aroclor-1242-3	(3)	19863858	18273261	20997152	20082888	19211500	19685732	5
Aroclor-1242-4	(4)	18777771	17922656	19968364	21100536	20505160	19654897	7
Aroclor-1242-5	(5)	24360224	22407967	26366090	27368000	23855560	24871568	8
Decachlorobiphenyl		899284040	984619373	1017502000	1027377360	962336000	978223755	5
Tetrachloro-m-xylene		920809800	854904253	959106780	929536920	894966400	911864831	4
Aroclor-1248-1	(1)	19339318	20312839	22158310	22596092	21441940	21169700	6
Aroclor-1248-2	(2)	25841628	26874321	28982946	30984640	28578600	28252427	7
Aroclor-1248-3	(3)	26866525	28025000	30088164	32810700	30987640	29755606	8
Aroclor-1248-4	(4)	31739244	33065895	35285822	36808472	38827540	35145395	8
Aroclor-1248-5	(5)	32923317	34190145	36090288	38291344	39345240	36168067	7
Decachlorobiphenyl		999826530	1002616133	1003875200	1054961080	1165261200	1045308029	7
Tetrachloro-m-xylene		903111320	931293867	957405100	986258320	972075400	950028801	3
Aroclor-1254-1	(1)	50279933	51640439	55752488	60013056	55160920	54569367	7
Aroclor-1254-2	(2)	44271421	45567105	49578352	53549416	50761380	48745535	8
Aroclor-1254-3	(3)	70979950	72598121	78881282	84287020	72336540	75816583	7
Aroclor-1254-4	(4)	50771725	50149405	54249580	57298592	44830820	51460024	9
Aroclor-1254-5	(5)	64408865	66088107	72696700	75630908	59021560	67569228	10
Decachlorobiphenyl		963124600	1013018133	1145558760	1245512000	1148271200	1103096939	10
Tetrachloro-m-xylene		957176240	952284093	991535260	1081903280	978837400	992347255	5
Aroclor-1268-1	(1)	160284327	157759444	159569126	170516088	180615940	165748985	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	139528496	137224495	137304354	146542344	164608100	145041558	8
Aroclor-1268-3	(3)	118669811	115934707	120470364	129761704	127485360	122464389	5
Aroclor-1268-4	(4)	50956768	50155827	52914114	57814536	54084040	53185057	6
Aroclor-1268-5	(5)	345492428	353062379	344150492	366619864	366772500	355219533	3
Decachlorobiphenyl		1574839450	1670989493	1686779340	1791292760	1882315600	1721243329	7
Tetrachloro-m-xylene		969499550	855552893	995885280	1076293640	1034726400	986391553	8

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

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	4.73	4.63	4.83	18915900
		2	4.81	4.71	4.91	14591600
		3	4.89	4.79	4.99	43158200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.89	4.79	4.99	32884000
		2	5.42	5.32	5.52	16260200
		3	5.70	5.60	5.80	34867200
		4	5.86	5.76	5.96	17799400
		5	5.95	5.85	6.05	12607200
Aroclor-1262	500	1	8.11	8.01	8.21	80729000
		2	8.43	8.33	8.53	161087000
		3	8.75	8.65	8.85	110612000
		4	8.84	8.74	8.94	83914000
		5	9.49	9.39	9.59	58804600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

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	4.04	3.94	4.14	13421200
		2	4.13	4.03	4.23	10166200
		3	4.21	4.11	4.31	30359600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.21	4.11	4.31	22742000
		2	4.94	4.84	5.04	22833200
		3	5.12	5.02	5.22	12024000
		4	5.20	5.10	5.30	10865300
		5	5.37	5.27	5.47	11305400
Aroclor-1262	500	1	6.97	6.87	7.07	83475400
		2	7.23	7.13	7.33	66291000
		3	7.75	7.65	7.85	60580400
		4	7.81	7.71	7.91	105474000
		5	8.32	8.22	8.42	51930200

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Continuing Calib Date: 02/26/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 09:15 **Initial Calibration Time(s):** 14:59 22:17

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	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.77	5.77	5.67	5.87	0.00
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.16	6.16	6.06	6.26	0.00
Aroclor-1260-1	(1)	7.28	7.28	7.18	7.38	0.00
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.26	10.26	10.16	10.36	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Continuing Calib Date: 02/26/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 09:15 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.12	5.12	5.02	5.22	0.00
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-5	(5)	7.47	7.47	7.37	7.57	0.00
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.89	8.89	8.79	8.99	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/26/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070063.D **Time Analyzed:** 09:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.682	5.581	5.781	508.150	500.000	1.6
Aroclor-1016-2	5.704	5.602	5.802	531.110	500.000	6.2
Aroclor-1016-3	5.766	5.665	5.865	514.780	500.000	3.0
Aroclor-1016-4	5.863	5.762	5.962	532.360	500.000	6.5
Aroclor-1016-5	6.157	6.056	6.256	527.970	500.000	5.6
Aroclor-1260-1	7.276	7.175	7.375	525.940	500.000	5.2
Aroclor-1260-2	7.530	7.429	7.629	505.490	500.000	1.1
Aroclor-1260-3	7.887	7.788	7.988	575.480	500.000	15.1
Aroclor-1260-4	8.113	8.012	8.212	518.530	500.000	3.7
Aroclor-1260-5	8.434	8.333	8.533	556.170	500.000	11.2
Decachlorobiphenyl	10.259	10.156	10.356	52.830	50.000	5.7
Tetrachloro-m-xylene	4.529	4.427	4.627	55.320	50.000	10.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/26/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070063.D **Time Analyzed:** 09:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.920	4.820	5.020	522.760	500.000	4.6
Aroclor-1016-2	4.939	4.839	5.039	521.230	500.000	4.2
Aroclor-1016-3	5.117	5.017	5.217	539.820	500.000	8.0
Aroclor-1016-4	5.158	5.058	5.258	529.840	500.000	6.0
Aroclor-1016-5	5.373	5.273	5.473	575.230	500.000	15.0
Aroclor-1260-1	6.411	6.312	6.512	534.150	500.000	6.8
Aroclor-1260-2	6.599	6.500	6.700	536.120	500.000	7.2
Aroclor-1260-3	6.754	6.654	6.854	505.810	500.000	1.2
Aroclor-1260-4	7.226	7.126	7.326	554.670	500.000	10.9
Aroclor-1260-5	7.466	7.367	7.567	554.650	500.000	10.9
Decachlorobiphenyl	8.888	8.788	8.988	52.110	50.000	4.2
Tetrachloro-m-xylene	3.831	3.730	3.930	51.760	50.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Continuing Calib Date: 02/26/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 16:31 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.16	6.16	6.06	6.26	0.00
Aroclor-1260-1	(1)	7.27	7.28	7.18	7.38	0.01
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.25	10.26	10.16	10.36	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

Continuing Calib Date: 02/26/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 16:31 **Initial Calibration Time(s):** 14:59 22:17

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)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.12	5.12	5.02	5.22	0.00
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.23	7.23	7.13	7.33	0.01
Aroclor-1260-5	(5)	7.47	7.47	7.37	7.57	0.00
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.89	8.89	8.79	8.99	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/26/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070076.D **Time Analyzed:** 16:31

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.680	5.581	5.781	471.990	500.000	-5.6
Aroclor-1016-2	5.702	5.602	5.802	479.600	500.000	-4.1
Aroclor-1016-3	5.764	5.665	5.865	465.110	500.000	-7.0
Aroclor-1016-4	5.862	5.762	5.962	466.240	500.000	-6.8
Aroclor-1016-5	6.155	6.056	6.256	476.670	500.000	-4.7
Aroclor-1260-1	7.274	7.175	7.375	472.540	500.000	-5.5
Aroclor-1260-2	7.528	7.429	7.629	442.120	500.000	-11.6
Aroclor-1260-3	7.886	7.788	7.988	476.850	500.000	-4.6
Aroclor-1260-4	8.111	8.012	8.212	452.650	500.000	-9.5
Aroclor-1260-5	8.431	8.333	8.533	470.620	500.000	-5.9
Decachlorobiphenyl	10.253	10.156	10.356	48.360	50.000	-3.3
Tetrachloro-m-xylene	4.528	4.427	4.627	52.840	50.000	5.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1422 **SAS No.:** Q1422 **SDG NO.:** Q1422

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/26/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070076.D **Time Analyzed:** 16:31

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.920	4.820	5.020	498.820	500.000	-0.2
Aroclor-1016-2	4.939	4.839	5.039	501.090	500.000	0.2
Aroclor-1016-3	5.116	5.017	5.217	511.710	500.000	2.3
Aroclor-1016-4	5.158	5.058	5.258	509.070	500.000	1.8
Aroclor-1016-5	5.373	5.273	5.473	508.280	500.000	1.7
Aroclor-1260-1	6.411	6.312	6.512	461.650	500.000	-7.7
Aroclor-1260-2	6.598	6.500	6.700	465.120	500.000	-7.0
Aroclor-1260-3	6.753	6.654	6.854	439.860	500.000	-12.0
Aroclor-1260-4	7.225	7.126	7.326	470.660	500.000	-5.9
Aroclor-1260-5	7.465	7.367	7.567	468.730	500.000	-6.3
Decachlorobiphenyl	8.886	8.788	8.988	45.960	50.000	-8.1
Tetrachloro-m-xylene	3.831	3.730	3.930	50.280	50.000	0.6

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

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	02/24/2025	14:43	PP069995.D	10.25	4.53
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	10.25	4.52
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	10.26	4.53
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	10.26	4.53
AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	10.25	4.52
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	10.26	4.53
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	10.25	4.52
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	10.26	4.53
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	10.26	4.53
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	10.25	4.52
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	10.26	4.53
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	10.25	4.53
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	10.26	4.53
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	10.26	4.53
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	10.26	4.53
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	10.26	4.53
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	10.26	4.53
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	10.25	4.52
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	10.26	4.53
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	10.25	4.52
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	10.26	4.53
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	10.26	4.53
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	10.26	4.52
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	10.25	4.53
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	10.25	4.52
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	10.25	4.53
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	10.26	4.53
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	10.25	4.52
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	10.26	4.53
AR1660CCC500	AR1660CCC500	02/26/2025	09:15	PP070063.D	10.26	4.53
I.BLK	I.BLK	02/26/2025	10:52	PP070067.D	10.25	4.53
PB166872BL	PB166872BL	02/26/2025	13:02	PP070068.D	10.26	4.53
PB166872BS	PB166872BS	02/26/2025	13:18	PP070069.D	10.25	4.52
B-154-SB01	Q1422-01	02/26/2025	13:34	PP070070.D	10.25	4.52
B-154-SB02	Q1422-02	02/26/2025	13:50	PP070071.D	10.25	4.53
NB-07-022525MS	Q1428-01MS	02/26/2025	14:55	PP070074.D	10.25	4.52
NB-07-022525MSD	Q1428-01MSD	02/26/2025	15:12	PP070075.D	10.26	4.53
AR1660CCC500	AR1660CCC500	02/26/2025	16:31	PP070076.D	10.25	4.53
I.BLK	I.BLK	02/26/2025	16:47	PP070077.D	10.25	4.52

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

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	02/24/2025	14:43	PP069995.D	8.89	3.83
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	8.89	3.83
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	8.89	3.83
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	8.89	3.83
AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	8.89	3.83
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	8.89	3.83
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	8.89	3.83
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	8.89	3.83
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	8.89	3.83
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	8.89	3.83
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	8.89	3.83
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	8.89	3.83
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	8.89	3.83
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	8.89	3.83
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	8.89	3.83
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	8.89	3.83
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	8.89	3.83
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	8.89	3.83
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	8.89	3.83
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	8.89	3.83
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	8.89	3.83
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	8.89	3.83
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	8.89	3.83
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	8.89	3.83
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	8.89	3.83
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	8.89	3.83
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	8.89	3.83
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	8.89	3.83
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	8.89	3.83
AR1660CCC500	AR1660CCC500	02/26/2025	09:15	PP070063.D	8.89	3.83
I.BLK	I.BLK	02/26/2025	10:52	PP070067.D	8.89	3.83
PB166872BL	PB166872BL	02/26/2025	13:02	PP070068.D	8.89	3.83
PB166872BS	PB166872BS	02/26/2025	13:18	PP070069.D	8.89	3.83
B-154-SB01	Q1422-01	02/26/2025	13:34	PP070070.D	8.89	3.83
B-154-SB02	Q1422-02	02/26/2025	13:50	PP070071.D	8.88	3.83
NB-07-022525MS	Q1428-01MS	02/26/2025	14:55	PP070074.D	8.89	3.83
NB-07-022525MSD	Q1428-01MSD	02/26/2025	15:12	PP070075.D	8.89	3.83
AR1660CCC500	AR1660CCC500	02/26/2025	16:31	PP070076.D	8.89	3.83
I.BLK	I.BLK	02/26/2025	16:47	PP070077.D	8.89	3.83

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB166872BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab Sample ID: PB166872BS Date(s) Analyzed: 02/26/2025 02/26/2025

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 PP070069.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.677	5.627	5.727	167		
	2	5.698	5.648	5.748	175		
	3	5.761	5.711	5.811	168		
COLUMN 1	4	5.858	5.808	5.908	170		
	5	6.151	6.101	6.201	173	171	
	1	4.919	4.869	4.969	175		
	2	4.938	4.888	4.988	173		
	3	5.115	5.065	5.165	180		
	4	5.157	5.107	5.207	175		
COLUMN 2	5	5.372	5.322	5.422	172	175	2.31
Aroclor-1260	1	7.271	7.221	7.321	186		
	2	7.524	7.474	7.574	171		
	3	7.884	7.834	7.934	153		
COLUMN 1	4	8.108	8.058	8.158	160		
	5	8.428	8.378	8.478	158	166	
	1	6.41	6.36	6.46	172		
	2	6.598	6.548	6.648	172		
	3	6.752	6.702	6.802	164		
	4	7.225	7.175	7.275	158		
COLUMN 2	5	7.466	7.416	7.516	163	166	0

Alliance TECHNICAL GROUP
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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

NB-07-022525MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab Sample ID: Q1428-01MS Date(s) Analyzed: 02/26/2025 02/26/2025

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 PP070074.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.676	5.626	5.726	158		
	2	5.698	5.648	5.748	147		
	3	5.76	5.71	5.81	144		
COLUMN 1	4	5.858	5.808	5.908	155		
	5	6.15	6.1	6.2	157	152	
	1	4.919	4.869	4.969	152		
	2	4.939	4.889	4.989	151		
	3	5.116	5.066	5.166	142		
	4	5.158	5.108	5.208	158		
COLUMN 2	5	5.373	5.323	5.423	196	160	5.13
Aroclor-1260	1	7.271	7.221	7.321	166		
	2	7.525	7.475	7.575	198		
	3	7.884	7.834	7.934	137		
COLUMN 1	4	8.107	8.057	8.157	159		
	5	8.429	8.379	8.479	149	162	
	1	6.411	6.361	6.461	162		
	2	6.599	6.549	6.649	159		
	3	6.752	6.702	6.802	151		
	4	7.226	7.176	7.276	132		
COLUMN 2	5	7.466	7.416	7.516	132	147	9.71

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

NB-07-022525MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Lab Sample ID: Q1428-01MSD Date(s) Analyzed: 02/26/2025 02/26/2025

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 PP070075.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.679	5.629	5.729	139		
	2	5.701	5.651	5.751	143		
	3	5.764	5.714	5.814	137		
COLUMN 1	4	5.861	5.811	5.911	147		
	5	6.153	6.103	6.203	142	142	
	1	4.918	4.868	4.968	147		
	2	4.938	4.888	4.988	151		
	3	5.115	5.065	5.165	142		
	4	5.157	5.107	5.207	156		
COLUMN 2	5	5.372	5.322	5.422	193	158	10.67
Aroclor-1260	1	7.274	7.224	7.324	159		
	2	7.528	7.478	7.578	194		
	3	7.886	7.836	7.936	133		
COLUMN 1	4	8.11	8.06	8.16	148		
	5	8.431	8.381	8.481	145	156	
	1	6.41	6.36	6.46	157		
	2	6.597	6.547	6.647	156		
	3	6.751	6.701	6.801	140		
	4	7.224	7.174	7.274	128		
COLUMN 2	5	7.465	7.415	7.515	126	141	10.1

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070070.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:34
Operator : YP\AJ
Sample : Q1422-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-154-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:45:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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...	4.523	3.828	32487570	21110870	22.136	22.082
2)	SA Decachlor...	10.251	8.885	18151058	19207039	15.935	17.717
	Target Compounds						

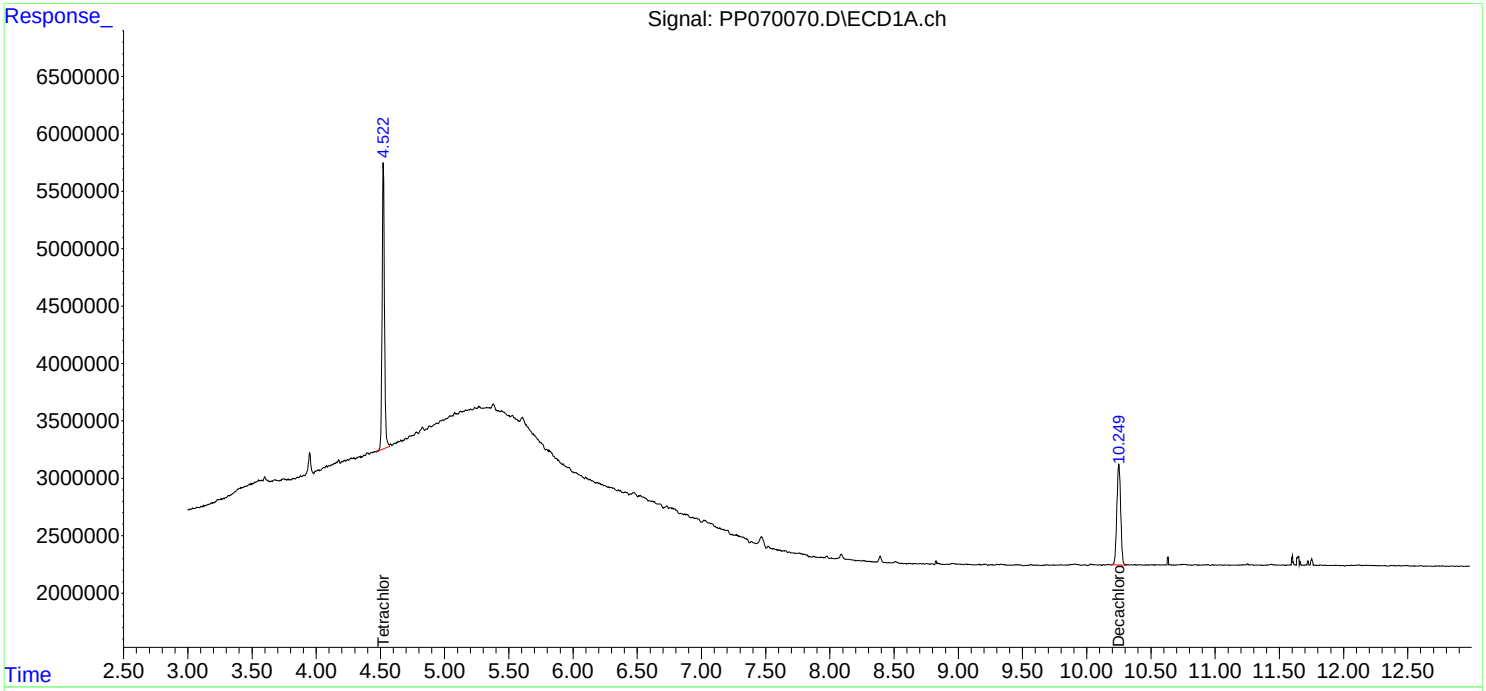
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

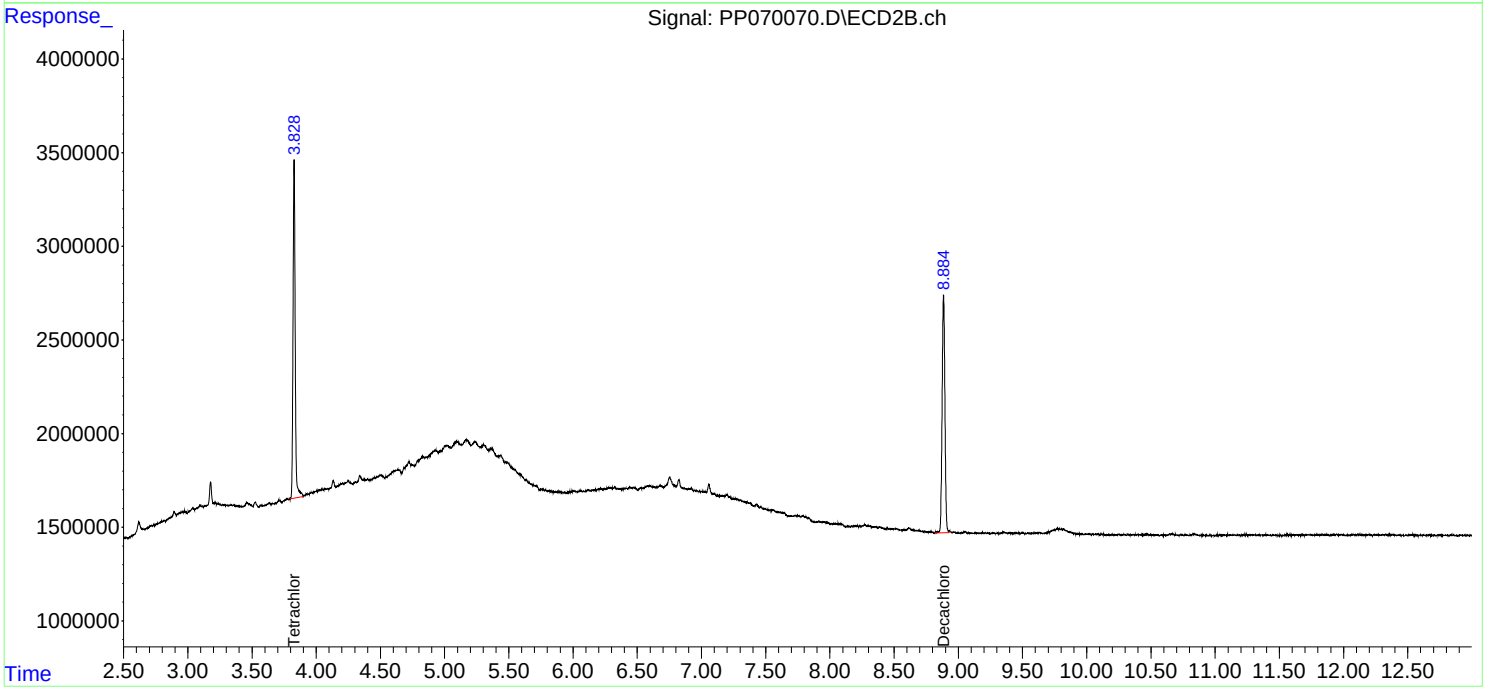
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070070.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:34
Operator : YP\AJ
Sample : Q1422-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

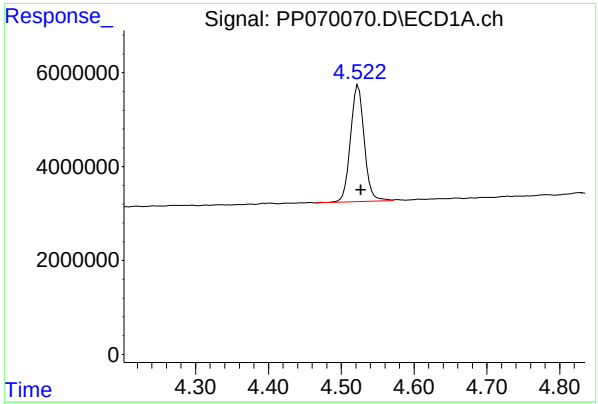
Instrument :
ECD_P
ClientSampleId :
B-154-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:45:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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



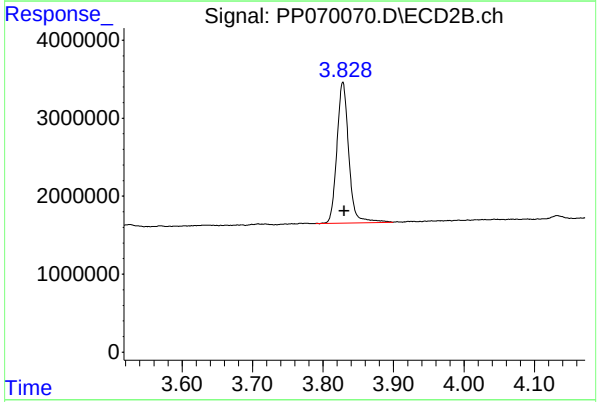




#1 Tetrachloro-m-xylene

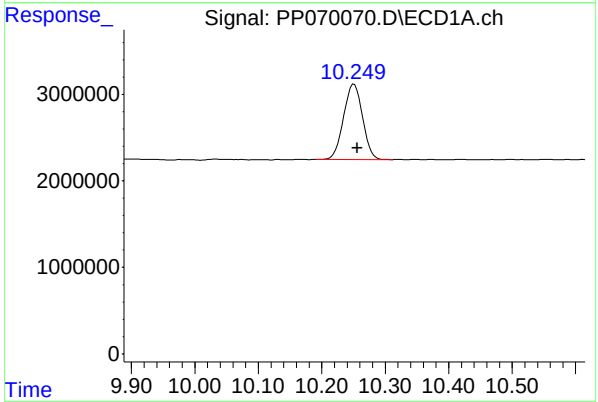
R.T.: 4.523 min
Delta R.T.: -0.004 min
Response: 32487570
Conc: 22.14 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-154-SB01



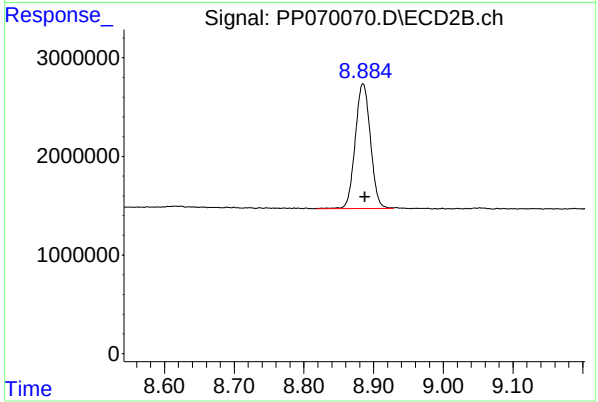
#1 Tetrachloro-m-xylene

R.T.: 3.828 min
Delta R.T.: -0.002 min
Response: 21110870
Conc: 22.08 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.251 min
Delta R.T.: -0.005 min
Response: 18151058
Conc: 15.94 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.885 min
Delta R.T.: -0.003 min
Response: 19207039
Conc: 17.72 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:50
Operator : YP\AJ
Sample : Q1422-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-154-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:46:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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...	4.525	3.828	34114023	23524864	23.244	24.607
2)	SA Decachlor...	10.251	8.884	21108744	20555927	18.532	18.961
	Target Compounds						

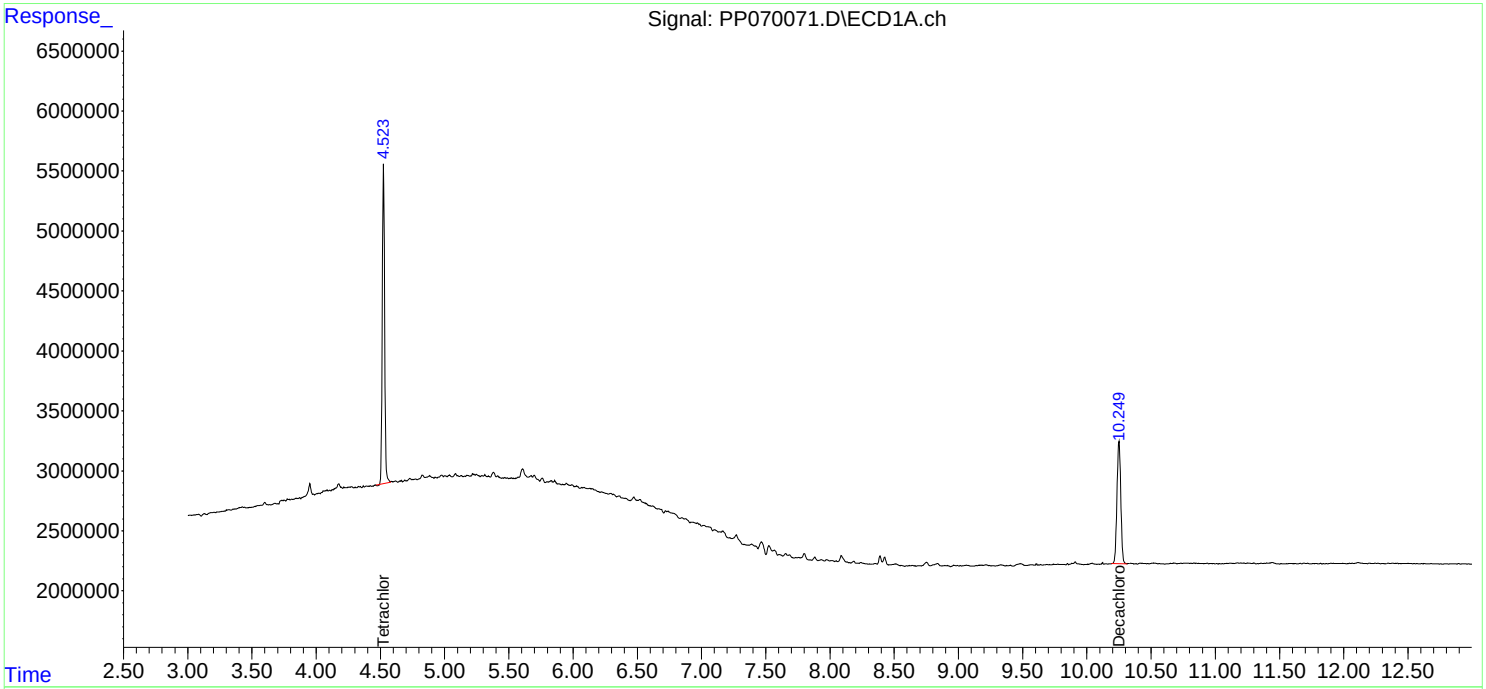
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

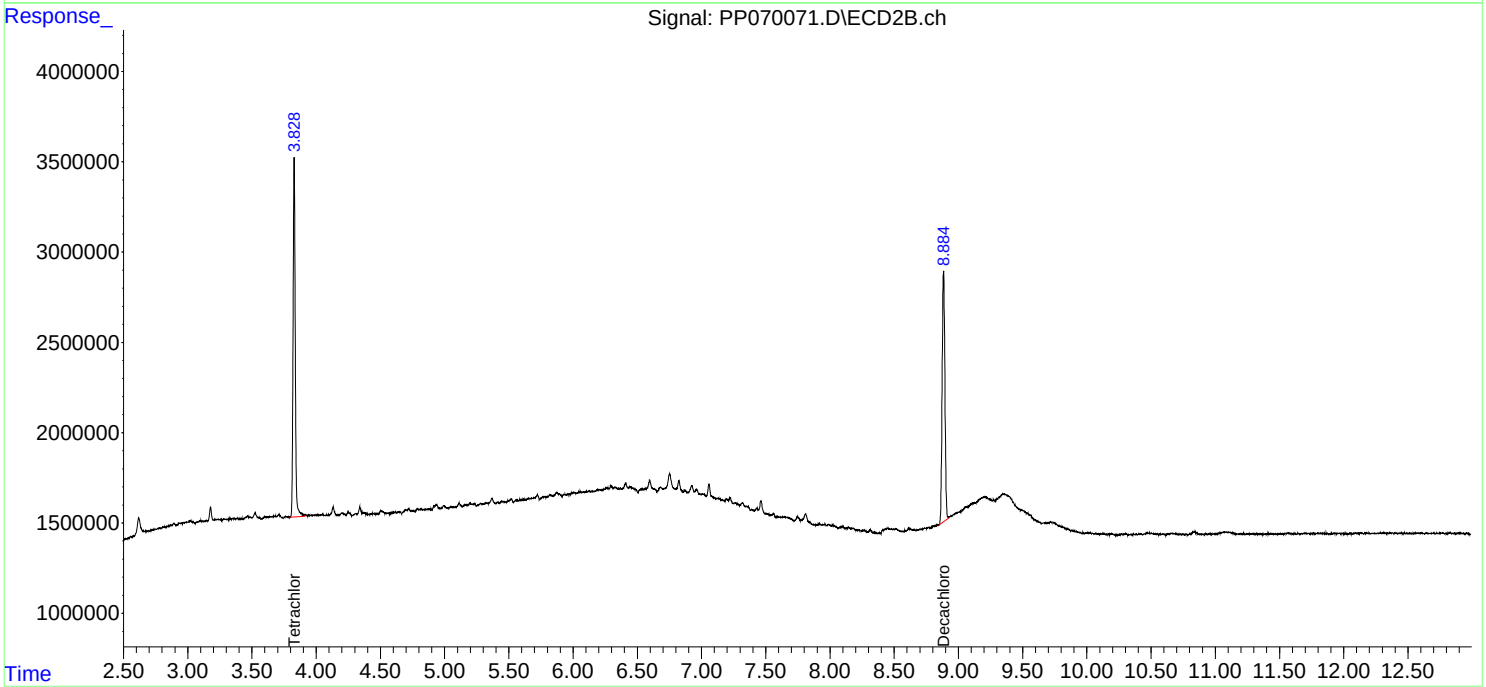
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:50
Operator : YP\AJ
Sample : Q1422-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

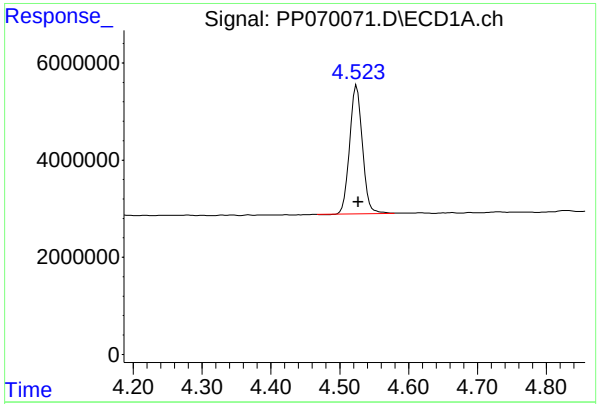
Instrument :
ECD_P
ClientSampleId :
B-154-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:46:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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



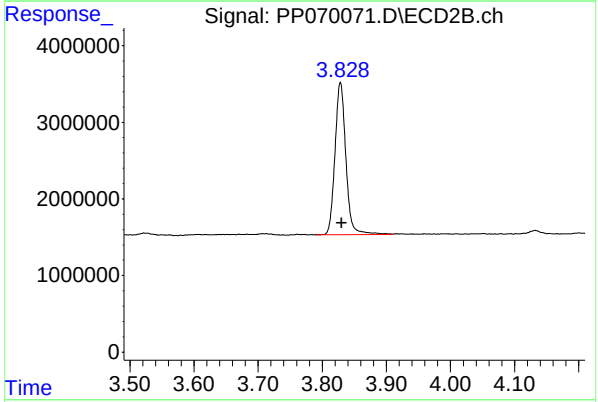




#1 Tetrachloro-m-xylene

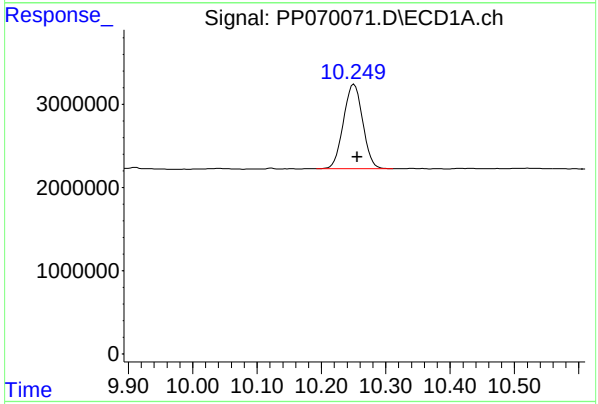
R.T.: 4.525 min
Delta R.T.: -0.002 min
Response: 34114023
Conc: 23.24 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-154-SB02



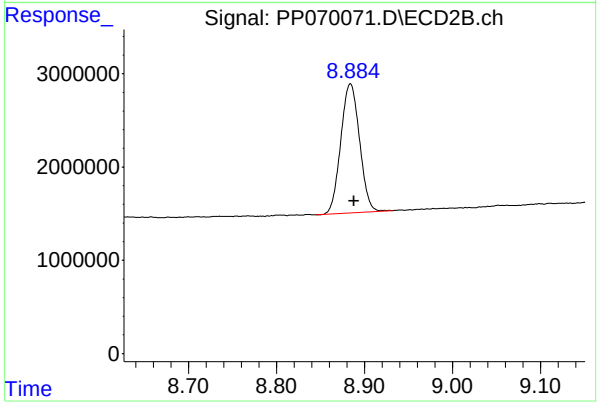
#1 Tetrachloro-m-xylene

R.T.: 3.828 min
Delta R.T.: -0.002 min
Response: 23524864
Conc: 24.61 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.251 min
Delta R.T.: -0.005 min
Response: 21108744
Conc: 18.53 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.884 min
Delta R.T.: -0.004 min
Response: 20555927
Conc: 18.96 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070068.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:02
Operator : YP\AJ
Sample : PB166872BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166872BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:44:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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...	4.532	3.832	38617010	25882076	26.313	27.072
2)	SA Decachlor...	10.262	8.889	28591957	25804708	25.102	23.803
	Target Compounds						

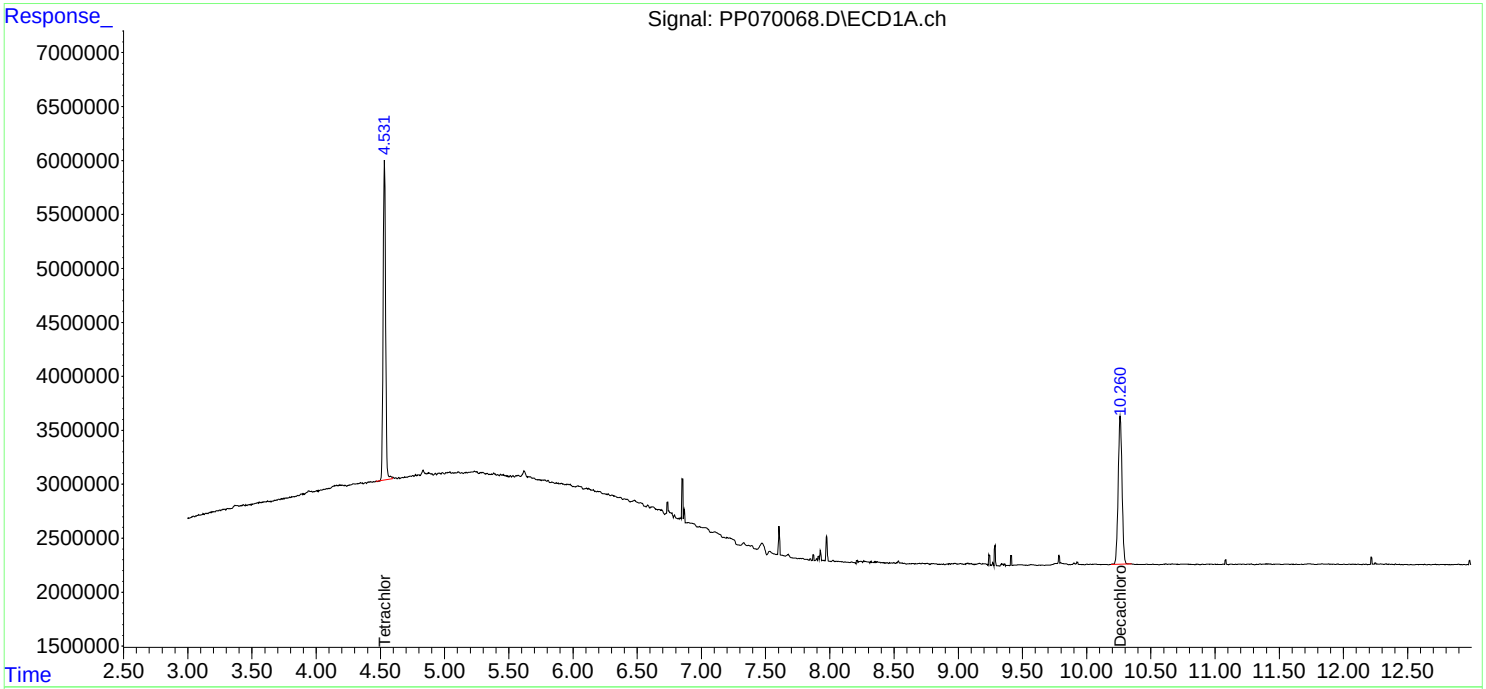
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

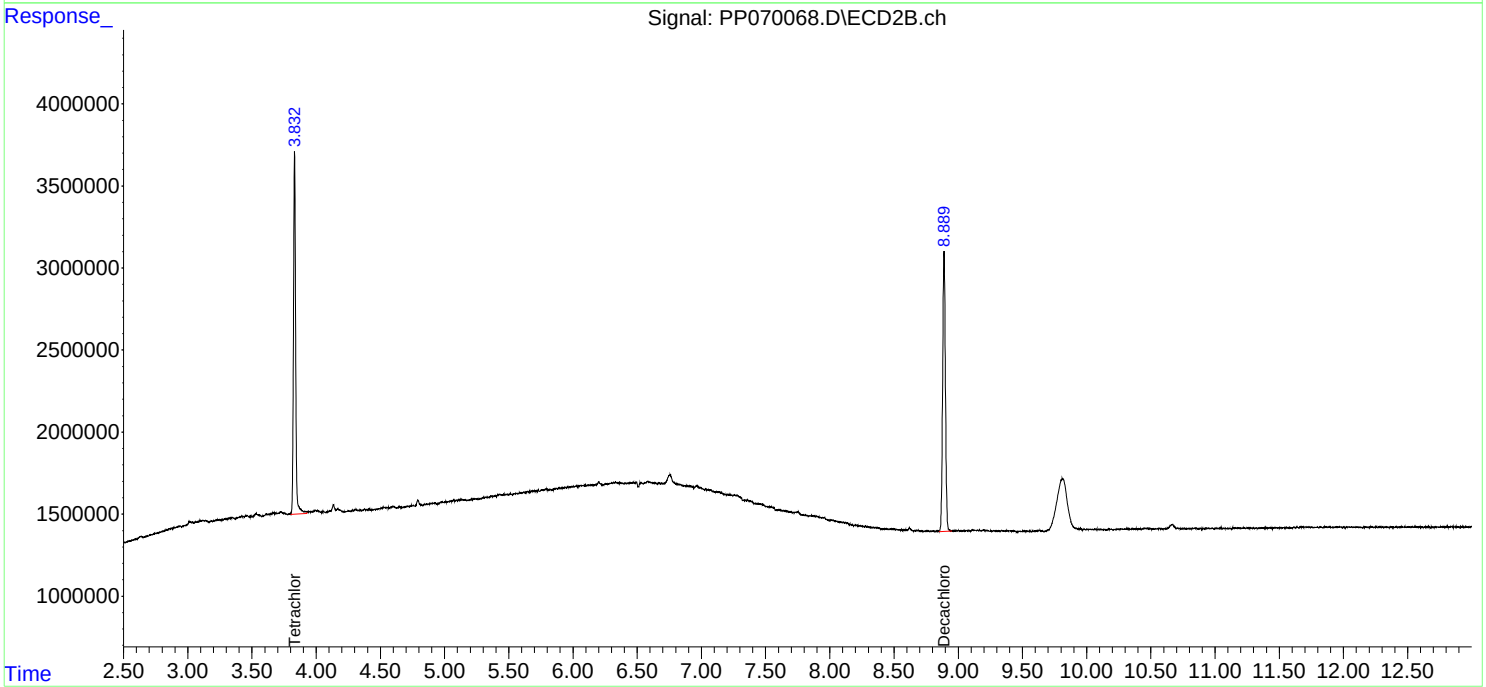
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070068.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:02
Operator : YP\AJ
Sample : PB166872BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

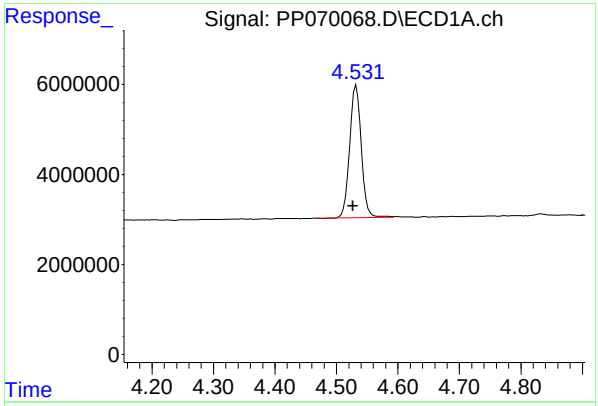
Instrument :
ECD_P
ClientSampleId :
PB166872BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:44:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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



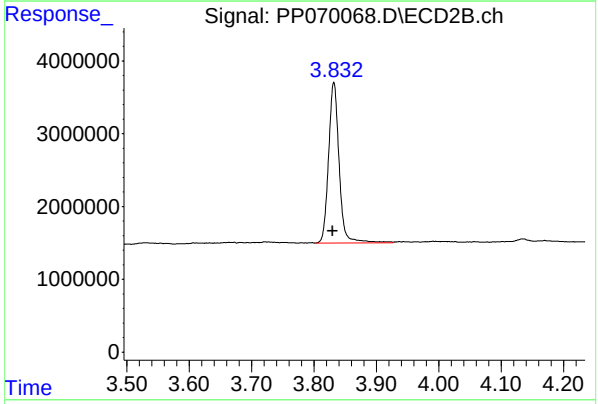




#1 Tetrachloro-m-xylene

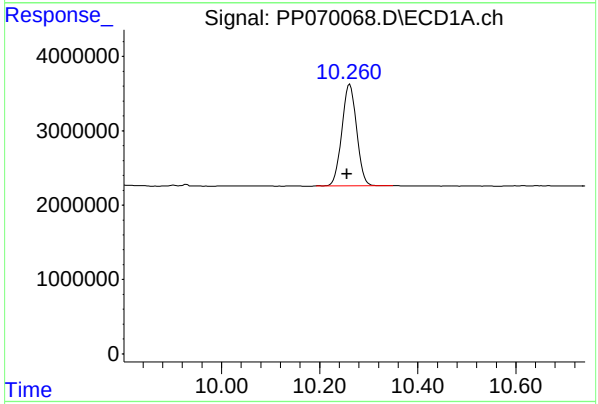
R.T.: 4.532 min
Delta R.T.: 0.005 mi
Response: 38617010
Conc: 26.31 ng/m

Instrument :
ECD_P
ClientSampleId :
PB166872BL



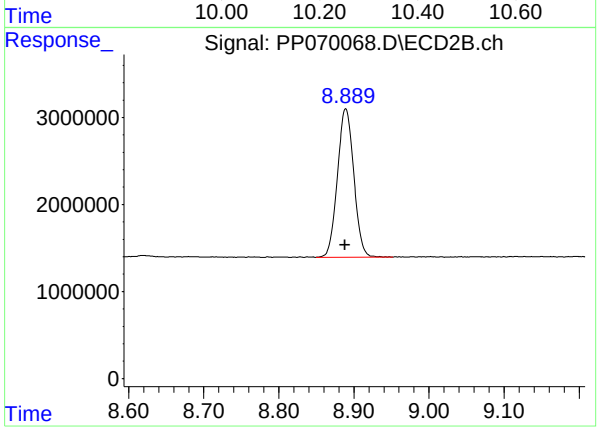
#1 Tetrachloro-m-xylene

R.T.: 3.832 min
Delta R.T.: 0.002 min
Response: 25882076
Conc: 27.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.262 min
Delta R.T.: 0.006 min
Response: 28591957
Conc: 25.10 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.889 min
Delta R.T.: 0.001 min
Response: 25804708
Conc: 23.80 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:18
Operator : YP\AJ
Sample : PB166872BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166872BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:44:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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...	4.524	3.830	39414767	24911030	26.856	26.057
2)	SA Decachlor...	10.252	8.887	29084895	28743164	25.535	26.513
	Target Compounds						
3)	L1 AR-1016-1	5.677	4.919	24944081	17531340	500.622	524.913
4)	L1 AR-1016-2	5.698	4.938	37276492	24156266	526.668	518.439
5)	L1 AR-1016-3	5.761	5.115	22128426	13559730	503.807	541.687
6)	L1 AR-1016-4	5.858	5.157	18482804	10561399	509.711	526.210
7)	L1 AR-1016-5	6.151	5.372	17448521	13409905	520.253	516.828
31)	L7 AR-1260-1	7.271	6.410	32501279	25638584	556.910	517.541
32)	L7 AR-1260-2	7.524	6.598	41992505	33779318	513.825	516.345
33)	L7 AR-1260-3	7.884	6.752	28835051	29704190	459.442	492.427
34)	L7 AR-1260-4	8.108	7.225	30404568	23215294	479.560	475.067
35)	L7 AR-1260-5	8.428	7.466	62359736	58147911	475.359	487.921

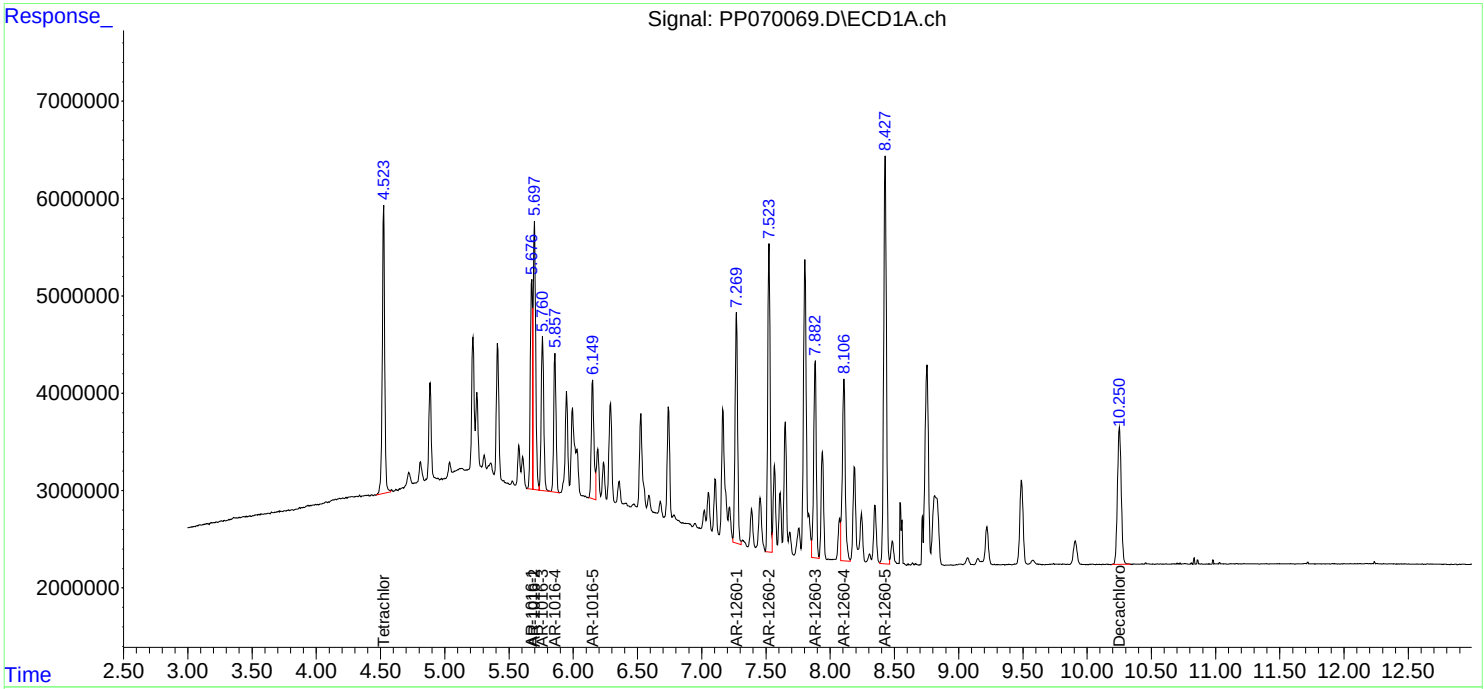
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

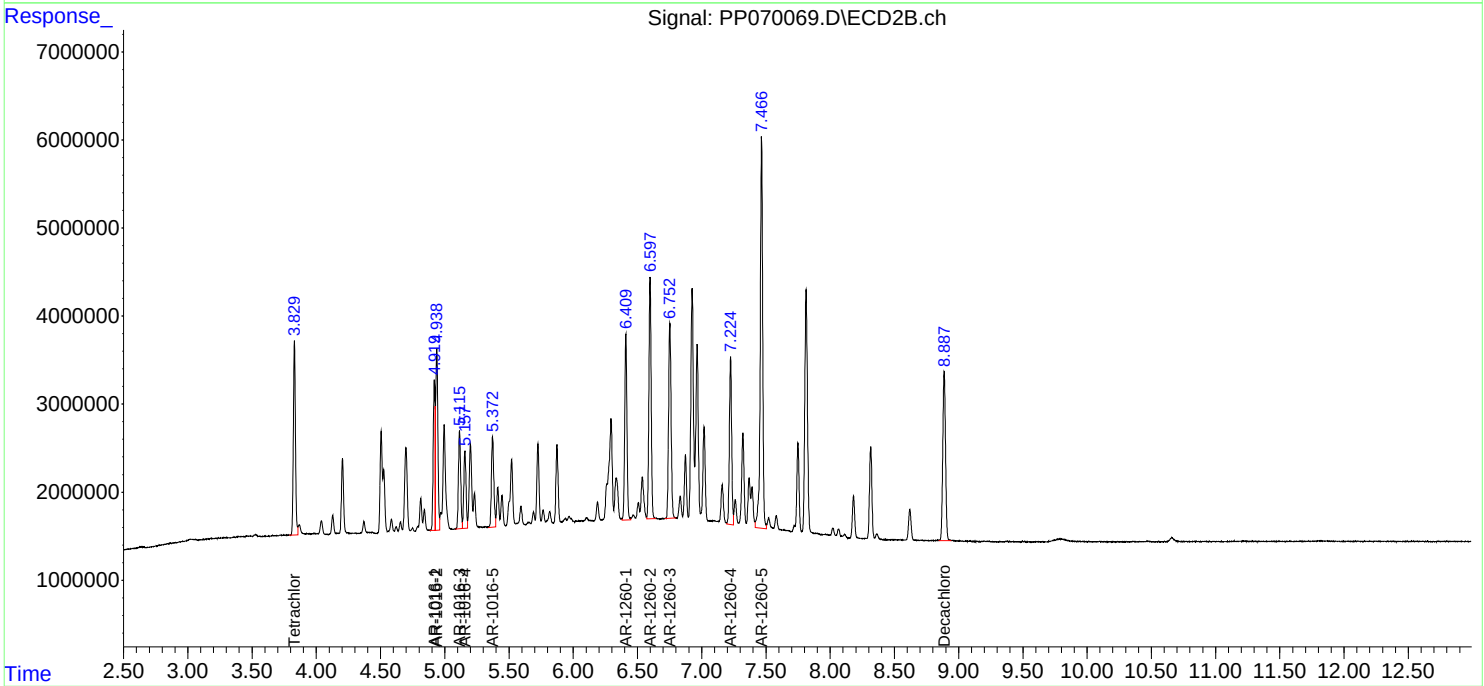
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 13:18
Operator : YP\AJ
Sample : PB166872BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166872BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:44:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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\PP022625\
Data File : PP070074.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 14:55
Operator : YP\AJ
Sample : Q1428-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
NB-07-022525MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/27/2025
Supervised By :Ankita Jodhani 02/27/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:47:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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...	4.524	3.831	29969464	19983997	20.420m	20.903
2)	SA Decachlor...	10.253	8.888	23421243	19874032	20.562	18.332
	Target Compounds						
3)	L1 AR-1016-1	5.676	4.919	22112829	14288293	443.800m	427.811m
4)	L1 AR-1016-2	5.698	4.939	29234679	19807737	413.048m	425.111
5)	L1 AR-1016-3	5.760	5.116	17806362	9971157	405.405m	398.330
6)	L1 AR-1016-4	5.858	5.158	15828558	8915808	436.513m	444.220
7)	L1 AR-1016-5	6.150	5.373	14794822	14303119	441.129m	551.253
31)	L7 AR-1260-1	7.271	6.411	27246424	22528343	466.868	454.757
32)	L7 AR-1260-2	7.525	6.599	45539100	29274776	557.222	447.489m
33)	L7 AR-1260-3	7.884	6.752	24245835	25607249	386.320	424.509m
34)	L7 AR-1260-4	8.107	7.226	28316372	18179596	446.623m	372.019
35)	L7 AR-1260-5	8.429	7.466	55152664	44122016	420.420	370.229

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070074.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 14:55
Operator : YP\AJ
Sample : Q1428-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

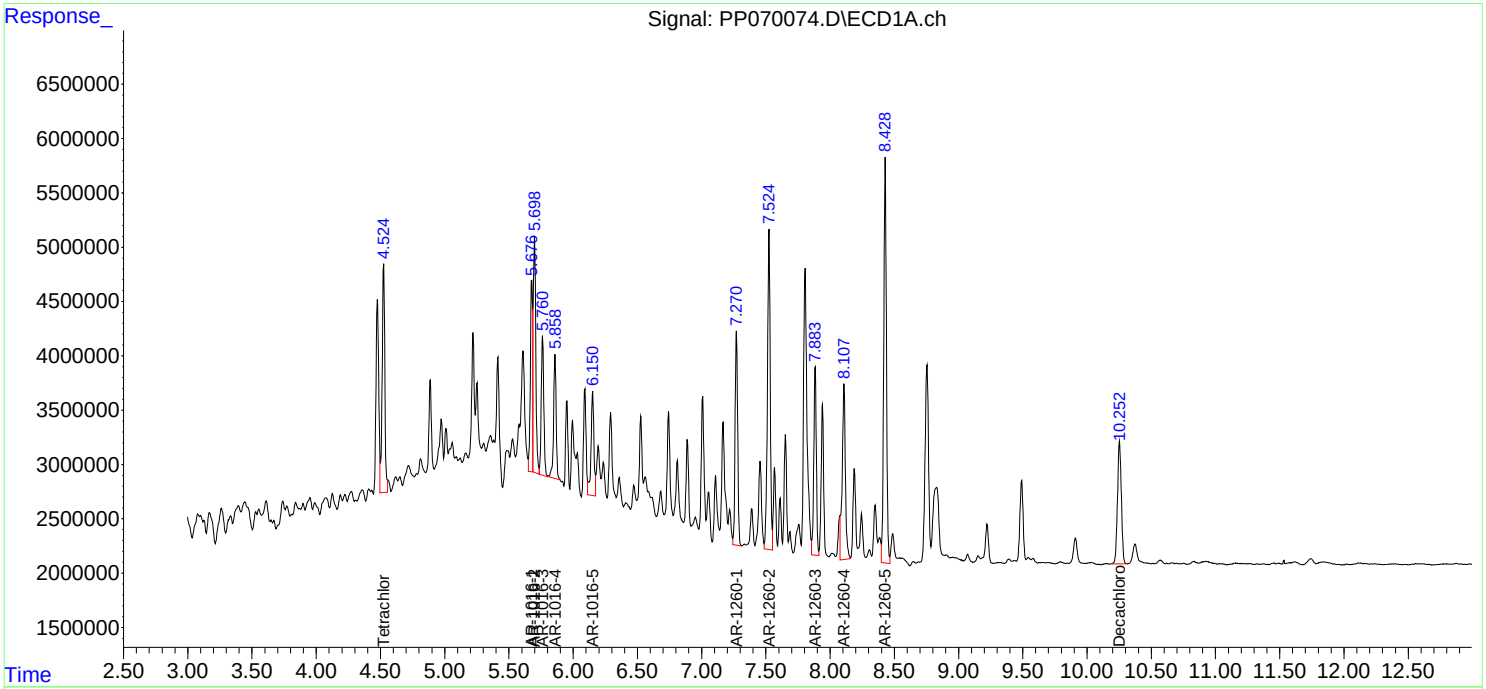
Instrument :
ECD_P
ClientSampleId :
NB-07-022525MS

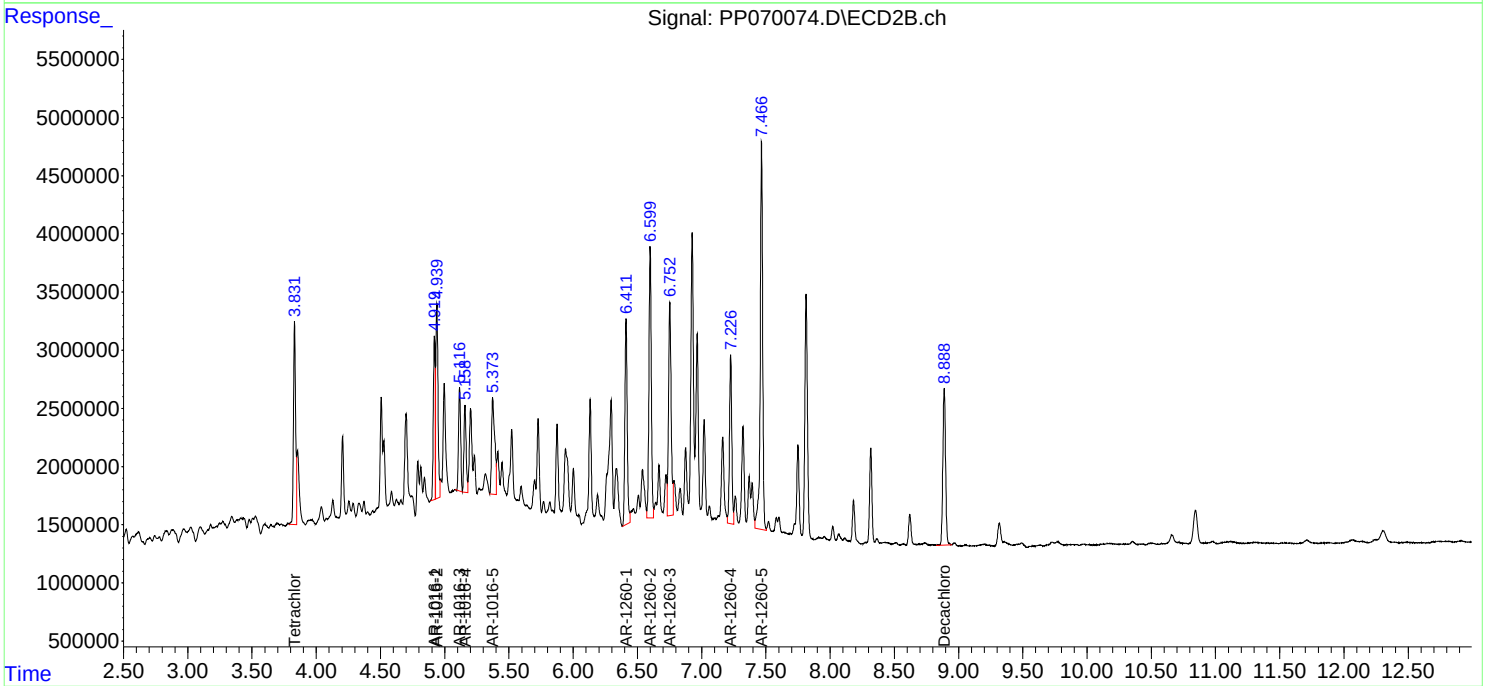
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/27/2025
Supervised By :Ankita Jodhani 02/27/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:47:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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\PP022625\
Data File : PP070075.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 15:12
Operator : YP\AJ
Sample : Q1428-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
NB-07-022525MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/27/2025
Supervised By :Ankita Jodhani 02/27/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:48:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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...	4.526	3.831	28996836	20438424	19.758m	21.378
2)	SA Decachlor...	10.256	8.886	23197505	19193698	20.366	17.705
	Target Compounds						
3)	L1 AR-1016-1	5.679	4.918	19554834	13781960	392.461m	412.651m
4)	L1 AR-1016-2	5.701	4.938	28379190	19784403	400.961m	424.610
5)	L1 AR-1016-3	5.764	5.115	16972289	10027354	386.415m	400.575
6)	L1 AR-1016-4	5.861	5.157	14993688	8807236	413.489m	438.811
7)	L1 AR-1016-5	6.153	5.372	13387379	14101090	399.164m	543.467 #
31)	L7 AR-1260-1	7.274	6.410	26137719	21853461	447.871	441.134
32)	L7 AR-1260-2	7.528	6.597	44497224	28672430	544.473	438.282m
33)	L7 AR-1260-3	7.886	6.751	23536747	23825691	375.021	394.975m
34)	L7 AR-1260-4	8.110	7.224	26461224	17579689	417.363m	359.743
35)	L7 AR-1260-5	8.431	7.465	53625437	42185762	408.778	353.982

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022625\
Data File : PP070075.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Feb 2025 15:12
Operator : YP\AJ
Sample : Q1428-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

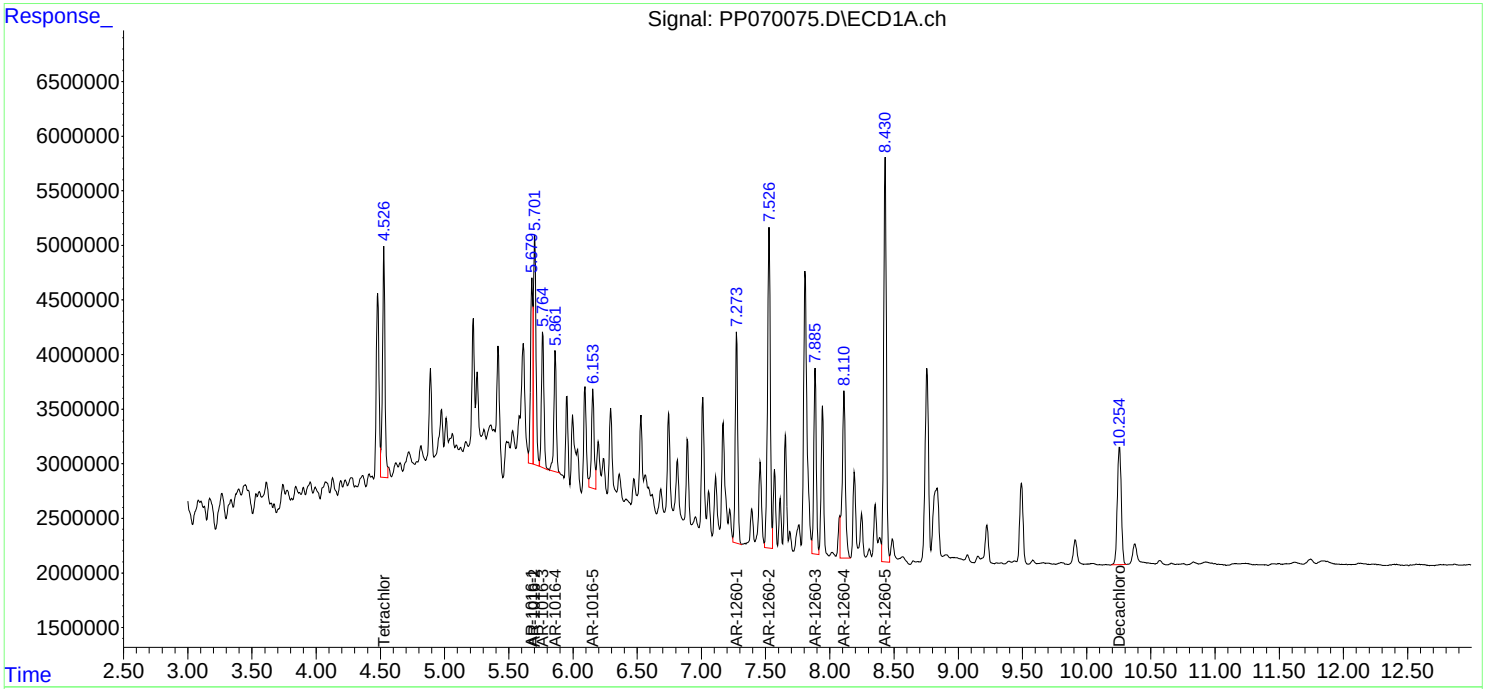
Instrument :
ECD_P
ClientSampleId :
NB-07-022525MSD

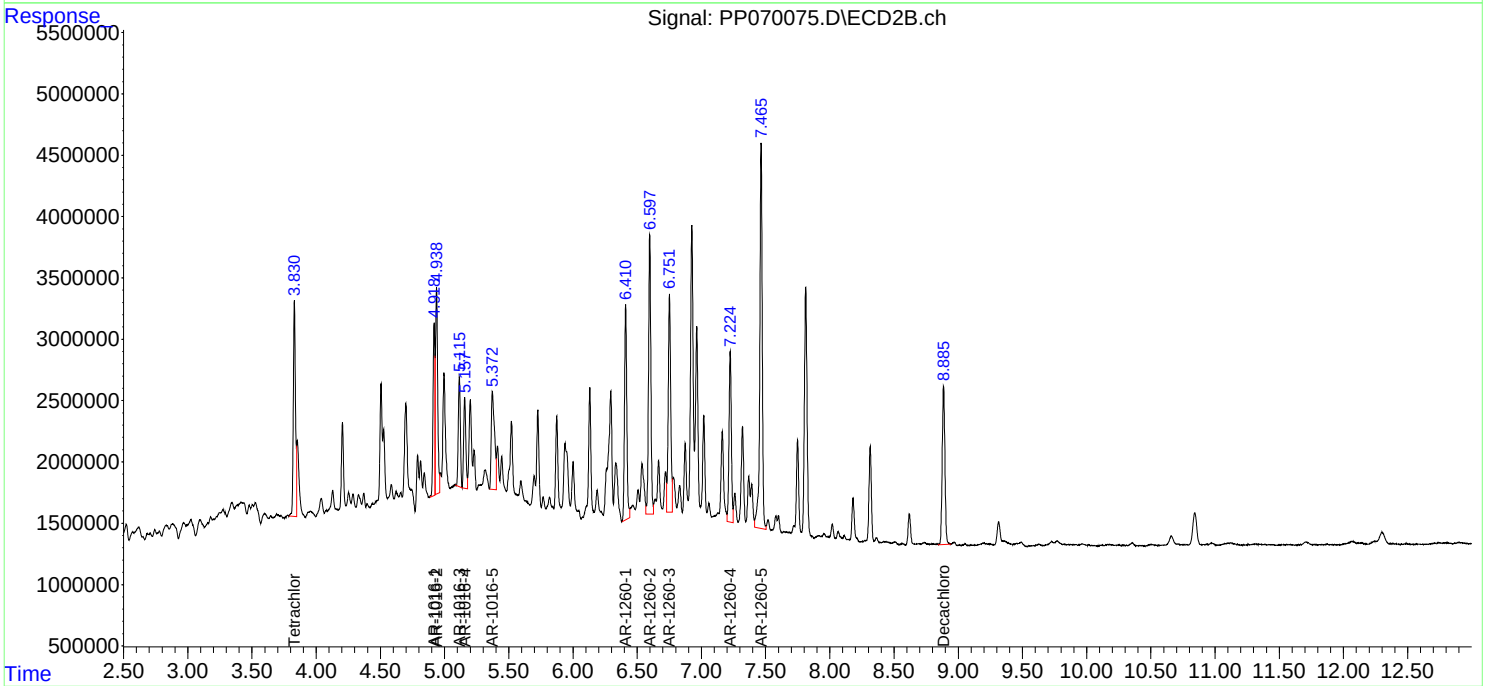
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/27/2025
Supervised By :Ankita Jodhani 02/27/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 01:48:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 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:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PP070000.D	AR-1016-1	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-1 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-3	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-3 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-4	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-5	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-1 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-2 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-3 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1221ICC500	PP070001.D	Decachlorobiphenyl	yogesh	2/25/2025 9:00:06 AM	Ankita	2/25/2025 9:47:57	Peak Integrated by Software
AR1242ICC750	PP070004.D	AR-1242-5	yogesh	2/25/2025 9:00:08 AM	Ankita	2/25/2025 9:47:58	Peak Integrated by Software
AR1242ICC250	PP070006.D	AR-1242-5	yogesh	2/25/2025 9:00:09 AM	Ankita	2/25/2025 9:48:00	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242ICC050	PP070007.D	AR-1242-1	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-2	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-3	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-4	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-5	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-1	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-2	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-3	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-4	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-5	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1254ICC1000	PP070013.D	AR-1254-1	yogesh	2/25/2025 9:00:14 AM	Ankita	2/25/2025 9:48:05	Peak Integrated by Software
AR1254ICC750	PP070014.D	AR-1254-1	yogesh	2/25/2025 9:00:16 AM	Ankita	2/25/2025 9:48:07	Peak Integrated by Software
AR1254ICC750	PP070014.D	AR-1254-5	yogesh	2/25/2025 9:00:16 AM	Ankita	2/25/2025 9:48:07	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254ICC050	PP070017.D	AR-1254-1	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-1 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-2 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-3	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-3 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-4	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-4 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-5	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-5 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	Tetrachloro-m-xylene	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	Tetrachloro-m-xylene #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1268ICC750	PP070020.D	Tetrachloro-m-xylene #2	yogesh	2/25/2025 9:00:19 AM	Ankita	2/25/2025 9:48:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC250	PP070022.D	AR-1268-4 #2	yogesh	2/25/2025 9:00:21 AM	Ankita	2/25/2025 9:48:11	Peak Integrated by Software
AR1268ICC050	PP070023.D	Tetrachloro-m-xylene	yogesh	2/25/2025 9:00:23 AM	Ankita	2/25/2025 9:48:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022625	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242CCC500	PP070064.D	AR-1242-1	yogesh	2/27/2025 8:28:56 AM	Ankita	2/27/2025 8:54:18	Peak Integrated by Software
AR1242CCC500	PP070064.D	AR-1242-1 #2	yogesh	2/27/2025 8:28:56 AM	Ankita	2/27/2025 8:54:18	Peak Integrated by Software
AR1248CCC500	PP070065.D	AR-1248-1 #2	yogesh	2/27/2025 8:28:57 AM	Ankita	2/27/2025 8:54:19	Peak Integrated by Software
AR1254CCC500	PP070066.D	AR-1254-4 #2	yogesh	2/27/2025 8:28:59 AM	Ankita	2/27/2025 8:54:21	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1016-1	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1016-1 #2	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1016-2	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1016-3	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1016-4	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1016-5	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1260-2 #2	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1260-3 #2	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MS	PP070074.D	AR-1260-4	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022625	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1428-01MS	PP070074.D	Tetrachloro-m-xylene	yogesh	2/27/2025 8:29:04 AM	Ankita	2/27/2025 8:54:25	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1016-1	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1016-1 #2	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1016-2	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1016-3	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1016-4	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1016-5	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1260-2 #2	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1260-3 #2	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	AR-1260-4	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software
Q1428-01MSD	PP070075.D	Tetrachloro-m-xylene	yogesh	2/27/2025 8:29:09 AM	Ankita	2/27/2025 8:54:27	Peak Integrated by Software

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 # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP069994.D	24 Feb 2025 14:27	YP\AJ	Ok
2	I.BLK	PP069995.D	24 Feb 2025 14:43	YP\AJ	Ok
3	AR1660ICC1000	PP069996.D	24 Feb 2025 14:59	YP\AJ	Ok
4	AR1660ICC750	PP069997.D	24 Feb 2025 15:15	YP\AJ	Ok
5	AR1660ICC500	PP069998.D	24 Feb 2025 15:32	YP\AJ	Ok
6	AR1660ICC250	PP069999.D	24 Feb 2025 15:48	YP\AJ	Ok
7	AR1660ICC050	PP070000.D	24 Feb 2025 16:04	YP\AJ	Ok,M
8	AR1221ICC500	PP070001.D	24 Feb 2025 16:20	YP\AJ	Ok,M
9	AR1232ICC500	PP070002.D	24 Feb 2025 16:37	YP\AJ	Ok
10	AR1242ICC1000	PP070003.D	24 Feb 2025 16:53	YP\AJ	Ok
11	AR1242ICC750	PP070004.D	24 Feb 2025 17:09	YP\AJ	Ok,M
12	AR1242ICC500	PP070005.D	24 Feb 2025 17:25	YP\AJ	Ok
13	AR1242ICC250	PP070006.D	24 Feb 2025 17:42	YP\AJ	Ok,M
14	AR1242ICC050	PP070007.D	24 Feb 2025 17:58	YP\AJ	Ok,M
15	AR1248ICC1000	PP070008.D	24 Feb 2025 18:14	YP\AJ	Ok
16	AR1248ICC750	PP070009.D	24 Feb 2025 18:30	YP\AJ	Ok
17	AR1248ICC500	PP070010.D	24 Feb 2025 18:46	YP\AJ	Ok
18	AR1248ICC250	PP070011.D	24 Feb 2025 19:03	YP\AJ	Ok
19	AR1248ICC050	PP070012.D	24 Feb 2025 19:19	YP\AJ	Ok,M
20	AR1254ICC1000	PP070013.D	24 Feb 2025 19:35	YP\AJ	Ok,M
21	AR1254ICC750	PP070014.D	24 Feb 2025 19:51	YP\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP070015.D	24 Feb 2025 20:08	YP\AJ	Ok
23	AR1254ICC250	PP070016.D	24 Feb 2025 20:24	YP\AJ	Ok
24	AR1254ICC050	PP070017.D	24 Feb 2025 20:40	YP\AJ	Ok,M
25	AR1262ICC500	PP070018.D	24 Feb 2025 20:56	YP\AJ	Ok
26	AR1268ICC1000	PP070019.D	24 Feb 2025 21:12	YP\AJ	Ok
27	AR1268ICC750	PP070020.D	24 Feb 2025 21:29	YP\AJ	Ok,M
28	AR1268ICC500	PP070021.D	24 Feb 2025 21:45	YP\AJ	Ok
29	AR1268ICC250	PP070022.D	24 Feb 2025 22:01	YP\AJ	Ok,M
30	AR1268ICC050	PP070023.D	24 Feb 2025 22:17	YP\AJ	Ok,M
31	PP022425ICV500	PP070024.D	24 Feb 2025 22:34	YP\AJ	Ok
32	AR1242ICV500	PP070025.D	24 Feb 2025 22:50	YP\AJ	Ok
33	AR1248ICV500	PP070026.D	24 Feb 2025 23:06	YP\AJ	Ok
34	AR1254ICV500	PP070027.D	24 Feb 2025 23:22	YP\AJ	Ok
35	AR1268ICV500	PP070028.D	24 Feb 2025 23:38	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 # PP022625

Review By	yogesh	Review On	2/27/2025 8:29:17 AM		
Supervise By	Ankita	Supervise On	2/27/2025 8:54:39 AM		
SubDirectory	PP022625	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP070062.D	26 Feb 2025 08:59	YP\AJ	Ok
2	AR1660CCC500	PP070063.D	26 Feb 2025 09:15	YP\AJ	Ok
3	AR1242CCC500	PP070064.D	26 Feb 2025 09:31	YP\AJ	Ok,M
4	AR1248CCC500	PP070065.D	26 Feb 2025 09:48	YP\AJ	Ok,M
5	AR1254CCC500	PP070066.D	26 Feb 2025 10:04	YP\AJ	Ok,M
6	I.BLK	PP070067.D	26 Feb 2025 10:52	YP\AJ	Ok
7	PB166872BL	PP070068.D	26 Feb 2025 13:02	YP\AJ	Ok
8	PB166872BS	PP070069.D	26 Feb 2025 13:18	YP\AJ	Ok
9	Q1422-01	PP070070.D	26 Feb 2025 13:34	YP\AJ	Ok
10	Q1422-02	PP070071.D	26 Feb 2025 13:50	YP\AJ	Ok
11	Q1427-01	PP070072.D	26 Feb 2025 14:07	YP\AJ	Ok,M
12	Q1428-01	PP070073.D	26 Feb 2025 14:39	YP\AJ	Ok,M
13	Q1428-01MS	PP070074.D	26 Feb 2025 14:55	YP\AJ	Ok,M
14	Q1428-01MSD	PP070075.D	26 Feb 2025 15:12	YP\AJ	Ok,M
15	AR1660CCC500	PP070076.D	26 Feb 2025 16:31	YP\AJ	Ok
16	I.BLK	PP070077.D	26 Feb 2025 16:47	YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP069994.D	24 Feb 2025 14:27		YP\AJ	Ok
2	I.BLK	I.BLK	PP069995.D	24 Feb 2025 14:43		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP069996.D	24 Feb 2025 14:59		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP069997.D	24 Feb 2025 15:15		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP069998.D	24 Feb 2025 15:32		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP069999.D	24 Feb 2025 15:48		YP\AJ	Ok
7	AR1660ICC050	AR1660ICC050	PP070000.D	24 Feb 2025 16:04		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP070001.D	24 Feb 2025 16:20		YP\AJ	Ok,M
9	AR1232ICC500	AR1232ICC500	PP070002.D	24 Feb 2025 16:37		YP\AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP070003.D	24 Feb 2025 16:53		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP070004.D	24 Feb 2025 17:09		YP\AJ	Ok,M
12	AR1242ICC500	AR1242ICC500	PP070005.D	24 Feb 2025 17:25		YP\AJ	Ok
13	AR1242ICC250	AR1242ICC250	PP070006.D	24 Feb 2025 17:42		YP\AJ	Ok,M
14	AR1242ICC050	AR1242ICC050	PP070007.D	24 Feb 2025 17:58		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP070008.D	24 Feb 2025 18:14		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP070009.D	24 Feb 2025 18:30		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP070010.D	24 Feb 2025 18:46		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP070011.D	24 Feb 2025 19:03		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP070012.D	24 Feb 2025 19:19		YP\AJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PP070013.D	24 Feb 2025 19:35		YP\AJ	Ok,M
21	AR1254ICC750	AR1254ICC750	PP070014.D	24 Feb 2025 19:51		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP070015.D	24 Feb 2025 20:08		YP\AJ	Ok
23	AR1254ICC250	AR1254ICC250	PP070016.D	24 Feb 2025 20:24		YP\AJ	Ok
24	AR1254ICC050	AR1254ICC050	PP070017.D	24 Feb 2025 20:40		YP\AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP070018.D	24 Feb 2025 20:56		YP\AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PP070019.D	24 Feb 2025 21:12		YP\AJ	Ok
27	AR1268ICC750	AR1268ICC750	PP070020.D	24 Feb 2025 21:29		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP070021.D	24 Feb 2025 21:45		YP\AJ	Ok
29	AR1268ICC250	AR1268ICC250	PP070022.D	24 Feb 2025 22:01		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP070023.D	24 Feb 2025 22:17		YP\AJ	Ok,M
31	PP022425ICV500	ICVPP022425	PP070024.D	24 Feb 2025 22:34		YP\AJ	Ok
32	AR1242ICV500	ICVPP022425AR1242	PP070025.D	24 Feb 2025 22:50		YP\AJ	Ok
33	AR1248ICV500	ICVPP022425AR1248	PP070026.D	24 Feb 2025 23:06		YP\AJ	Ok
34	AR1254ICV500	ICVPP022425AR1254	PP070027.D	24 Feb 2025 23:22		YP\AJ	Ok
35	AR1268ICV500	ICVPP022425AR1268	PP070028.D	24 Feb 2025 23:38		YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022625

Review By	yogesh	Review On	2/27/2025 8:29:17 AM		
Supervise By	Ankita	Supervise On	2/27/2025 8:54:39 AM		
SubDirectory	PP022625	HP Acquire Method		HP Processing Method	PP022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP070062.D	26 Feb 2025 08:59		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP070063.D	26 Feb 2025 09:15		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP070064.D	26 Feb 2025 09:31		YP\AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PP070065.D	26 Feb 2025 09:48		YP\AJ	Ok,M
5	AR1254CCC500	AR1254CCC500	PP070066.D	26 Feb 2025 10:04		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP070067.D	26 Feb 2025 10:52		YP\AJ	Ok
7	PB166872BL	PB166872BL	PP070068.D	26 Feb 2025 13:02		YP\AJ	Ok
8	PB166872BS	PB166872BS	PP070069.D	26 Feb 2025 13:18		YP\AJ	Ok
9	Q1422-01	B-154-SB01	PP070070.D	26 Feb 2025 13:34		YP\AJ	Ok
10	Q1422-02	B-154-SB02	PP070071.D	26 Feb 2025 13:50		YP\AJ	Ok
11	Q1427-01	VNJ-227	PP070072.D	26 Feb 2025 14:07		YP\AJ	Ok,M
12	Q1428-01	NB-07-022525	PP070073.D	26 Feb 2025 14:39		YP\AJ	Ok,M
13	Q1428-01MS	NB-07-022525MS	PP070074.D	26 Feb 2025 14:55		YP\AJ	Ok,M
14	Q1428-01MSD	NB-07-022525MSD	PP070075.D	26 Feb 2025 15:12		YP\AJ	Ok,M
15	AR1660CCC500	AR1660CCC500	PP070076.D	26 Feb 2025 16:31		YP\AJ	Ok
16	I.BLK	I.BLK	PP070077.D	26 Feb 2025 16:47		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB166872

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 : 02/26/2025

Extraction Start Time : 09:25

Extraction End Date : 02/26/2025

Extraction End Time : 12:25

Concentration By: EH

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	5000 PPB	PP24093
Surrogate	1.0ML	200 PPB	PP24123
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	EP2583
Baked Na2SO4	N/A	EP2589
Sand	N/A	E2865
H2SO4 1:1	N/A	EP2565
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

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
2/26/25	RS (Ext lab)	ATI TEST PCA Cees
12:30	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166872

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 02/26/2025

Sample ID	Client Sample ID	Test	(g) mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166872BL	ABLK872	PCB	30.01	N/A	ritesh	Evelyn	10			U7-1
PB166872BS	ALCS872	PCB	30.02	N/A	ritesh	Evelyn	10			2
Q1422-01	B-154-SB01	PCB	30.07	N/A	ritesh	Evelyn	10	E		3
Q1422-02	B-154-SB02	PCB	30.03	N/A	ritesh	Evelyn	10	E		4
Q1427-01	VNJ-227	PCB	30.08	N/A	ritesh	Evelyn	10	E		5
Q1428-01	NB-07-022525	PCB	30.03	N/A	ritesh	Evelyn	10	E		6
Q1428-01MS	NB-07-022525MS	PCB	30.05	N/A	ritesh	Evelyn	10	E		U2-1
Q1428-01MS D	NB-07-022525MSD	PCB	30.06	N/A	ritesh	Evelyn	10	E		2

RS 2/26

* **Extracts relinquished on the same date as received.**

PB 166832 9:25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1428PCB **WorkList ID :** 187889 **Department :** Extraction **Date :** 02-26-2025 08:48:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1422-01	B-154-SB01	Solid	PCB	Cool 4 deg C	PORT06	H33	02/23/2025	8082A
Q1422-02	B-154-SB02	Solid	PCB	Cool 4 deg C	PORT06	H33	02/23/2025	8082A
Q1427-01	VNJ-227	Solid	PCB	Cool 4 deg C	PSEG03	H21	02/25/2025	8082A
Q1428-01	NB-07-022525	Solid	PCB	Cool 4 deg C	PSEG05	H21	02/25/2025	8082A

Date/Time 2/26/25 9:20
Raw Sample Received by: RJ (EXT 606)
Raw Sample Relinquished by:

Date/Time 2/26/25 9:45
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EXT 606)

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LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25**			**02/25/25**
			PCB	8082A		02/26/25	02/26/25	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25**			**02/25/25**
			PCB	8082A		02/26/25	02/26/25	

SAMPLE DATA

Raw Data: FD068337.D

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 20:46	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.13	mg/kg	FC068337.D
Aliphatic C12-C16	Aliphatic C12-C16	0.38	J	1	0.27	0.75	mg/kg	FC068337.D
Aliphatic C16-C21	Aliphatic C16-C21	0.34	U	1	0.34	1.13	mg/kg	FC068337.D
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	1	0.90	1.50	mg/kg	FC068337.D
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	1	2.03	2.26	mg/kg	FC068337.D
Aromatic C10-C12	Aromatic C10-C12	0.43	J	1	0.34	0.75	mg/kg	FD049145.D
Aromatic C12-C16	Aromatic C12-C16	0.65	J	1	0.38	1.13	mg/kg	FD049145.D
Aromatic C16-C21	Aromatic C16-C21	2.26		1	1.08	1.88	mg/kg	FD049145.D
Aromatic C21-C36	Aromatic C21-C36	2.26	U	1	2.26	3.01	mg/kg	FD049145.D
Total AliphaticEPH	Total AliphaticEPH	3.97	U		3.97	6.77	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.06	U		4.06	6.77	mg/kg	
Total EPH	Total EPH	8.04	U		8.04	13.5	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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068337.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.43	U	0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.38	J	0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.34	U	0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.90	U	0.90	1.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.03	U	2.03	2.26	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		31.0		40 - 140	62%	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:	Q1422-01	Acq On:	28 Feb 2025 20:46
Client Sample ID:	B-154-SB01	Operator:	YP/AJ
Data file:	FC068337.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	3.104	6.369	531996	3.772	300	ug/ml
Aliphatic C12-C16	6.370	9.754	696493	5.097	200	ug/ml
Aliphatic C16-C21	9.755	13.107	570004	4.33	300	ug/ml
Aliphatic C21-C28	13.108	16.761	536732	4.375	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2407195	23.406	600	ug/ml
Aliphatic EPH	3.104	21.565	4742420	40.98		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.838	12.838	3488877	31.02		ug/ml
Aliphatic C9-C28	3.104	16.761	2335225	17.574	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049145.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.43	J	0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.65	J	0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.26		1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.26	U	2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.4		40 - 140	117%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	60.8		40 - 140	122%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.7		40 - 140	69%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1422-01	Acq On:	28 Feb 2025 20:46
Client Sample ID:	B-154-SB01	Operator:	YP/AJ
Data file:	FD049145.D	Misc:	
Instrument:	FID_D	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	905838	5.696	200	ug/ml
Aromatic C12-C16	5.795	8.396	1381445	8.584	300	ug/ml
Aromatic C16-C21	8.397	12.661	4600277	29.997	500	ug/ml
Aromatic C21-C36	12.662	18.073	3650099	25.505	800	ug/ml
Aromatic EPH	4.076	18.073	10537659	69.782		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8363016	58.44		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5346083	60.81		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5608061	34.67		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.3
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
02/27/25 13:10	02/28/25 21:22	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.14	mg/kg	FC068338.D
Aliphatic C12-C16	Aliphatic C12-C16	0.51	J	1	0.27	0.76	mg/kg	FC068338.D
Aliphatic C16-C21	Aliphatic C16-C21	0.41	J	1	0.34	1.14	mg/kg	FC068338.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.52	mg/kg	FC068338.D
Aliphatic C28-C40	Aliphatic C28-C40	2.06	U	1	2.06	2.29	mg/kg	FC068338.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.76	mg/kg	FD049146.D
Aromatic C12-C16	Aromatic C12-C16	0.45	J	1	0.39	1.14	mg/kg	FD049146.D
Aromatic C16-C21	Aromatic C16-C21	1.77	J	1	1.10	1.91	mg/kg	FD049146.D
Aromatic C21-C36	Aromatic C21-C36	2.29	U	1	2.29	3.05	mg/kg	FD049146.D
Total AliphaticEPH	Total AliphaticEPH	4.03	U		4.03	6.85	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.12	U		4.12	6.86	mg/kg	
Total EPH	Total EPH	8.15	U		8.15	13.7	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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.3
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
FC068338.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.44	U	0.44	1.14	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.51	J	0.27	0.76	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.41	J	0.34	1.14	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.92	U	0.92	1.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.06	U	2.06	2.29	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		48.7		40 - 140	97%	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:	Q1422-02	Acq On:	28 Feb 2025 21:22
Client Sample ID:	B-154-SB02	Operator:	YP/AJ
Data file:	FC068338.D	Misc:	
Instrument:	FID_C	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	584524	4.145	300	ug/ml
Aliphatic C12-C16	6.370	9.754	907415	6.64	200	ug/ml
Aliphatic C16-C21	9.755	13.107	714840	5.431	300	ug/ml
Aliphatic C21-C28	13.108	16.761	683711	5.573	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2639568	25.665	600	ug/ml
Aliphatic EPH	3.104	21.565	5530058	47.453		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	5478065	48.71		ug/ml
Aliphatic C9-C28	3.104	16.761	2890490	21.789	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.3
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
FD049146.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	U	0.34	0.76	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.45	J	0.39	1.14	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.77	J	1.10	1.91	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.29	U	2.29	3.05	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	63.0		40 - 140	126%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	66.7		40 - 140	133%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.6		40 - 140	87%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1422-02	Acq On:	28 Feb 2025 21:22
Client Sample ID:	B-154-SB02	Operator:	YP/AJ
Data file:	FD049146.D	Misc:	
Instrument:	FID_D	ALS Vial:	75
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	714445	4.493	200	ug/ml
Aromatic C12-C16	5.795	8.396	948596	5.894	300	ug/ml
Aromatic C16-C21	8.397	12.661	3553201	23.169	500	ug/ml
Aromatic C21-C36	12.662	18.073	4005761	27.99	800	ug/ml
Aromatic EPH	4.076	18.073	9222003	61.546		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	9010697	62.96		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5866189	66.73		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	7059553	43.64		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Run Number: FC022825AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166923BL	83			0
PB166923BS	78			0
PB166923BSD	77			0
P001-CLAY-CF01-01MS	61			0
P001-CLAY-CF01-01MSD	65			0
B-154-SB01	62			0
B-154-SB02	97			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.: Q1422 SAS No.: Q1422 SDG No.: Q1422

Run Number: FD022825AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166923BL	112	116	99	0
PB166923BS	117	124	106	0
PB166923BSD	118	126	107	0
P001-CLAY-CF01-01MS	118	124	67	0
P001-CLAY-CF01-01MSD	112	118	64	0
B-154-SB01	117	122	69	0
B-154-SB02	126	133	87	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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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : Q1421-02 **Datafile:** FC068334.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	14.2	0	9.70	68		(40-140)
Aliphatic C12-C16	9.5	0.50	9.05	90		(40-140)
Aliphatic C16-C21	14.2	0.43	14.6	100		(40-140)
Aliphatic C21-C28	18.9	0	19.4	102		(40-140)
Aliphatic C28-C40	28.4	2.80	34.1	110		(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:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : Q1421-03 **Datafile:** FC068335.D

Client ID : P001-CLAY-CF01-01MSD

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	14.2	0	9.71	68		0.15 |	(40-140)	25
Aliphatic C12-C16	9.5	0.50	9.10	91		0.44 |	(40-140)	25
Aliphatic C16-C21	14.2	0.43	14.7	100		0.1 |	(40-140)	25
Aliphatic C21-C28	18.9	0	19.6	103		0.98 |	(40-140)	25
Aliphatic C28-C40	28.4	2.80	34.6	111		0.9 |	(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:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : Q1421-02 **Datafile:** FD049142.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	9.5	0.47	9.80	99		(40-140)
Aromatic C12-C16	14.2	0.65	17.2	116		(40-140)
Aromatic C16-C21	23.7	2.61	35.7	139		(40-140)
Aromatic C21-C36	37.8	0	57.2	151	*	(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:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : Q1421-03 **Datafile:** FD049143.D

Client ID : P001-CLAY-CF01-01MSD

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	9.5	0.47	9.34	94		5.1 |	(40-140)	25
Aromatic C12-C16	14.2	0.65	16.4	110		5.31 |	(40-140)	25
Aromatic C16-C21	23.7	2.61	34.2	133		4.41 |	(40-140)	25
Aromatic C21-C36	37.9	0	55.5	146	*	3.37 |	(40-140)	25

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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:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : PB166923BS **Datafile:** FC068323.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	6.53	65		(40-140)
Aliphatic C12-C16	6.7	5.75	86		(40-140)
Aliphatic C16-C21	10	9.57	96		(40-140)
Aliphatic C21-C28	13.3	12.9	97		(40-140)
Aliphatic C28-C40	20.0	21.3	106		(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:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : PB166923BSD **Datafile:** FC068324.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	6.56	66		0.37|	(40-140)	50
Aliphatic C12-C16	6.7	5.75	86		0|	(40-140)	50
Aliphatic C16-C21	10	9.54	96		0.352|	(40-140)	50
Aliphatic C21-C28	13.3	12.9	97		0.01|	(40-140)	50
Aliphatic C28-C40	20.0	21.4	107		1|	(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:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : PB166923BS **Datafile:** FD049131.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	6.49	97		(40-140)
Aromatic C12-C16	10	11.1	111		(40-140)
Aromatic C16-C21	16.7	21.5	129		(40-140)
Aromatic C21-C36	26.6	34.3	128		(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:** Q1422 **SAS No :** Q1422 **SDG No:** Q1422

Sample No : PB166923BSD **Datafile:** FD049132.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	6.56	98		1.1|	(40-140)	50
Aromatic C12-C16	10	11.3	113		1.9|	(40-140)	50
Aromatic C16-C21	16.7	21.8	130		1.5|	(40-140)	50
Aromatic C21-C36	26.6	34.9	130		2.3|	(40-140)	50

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166923BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1422 SAS No.: Q1422 SDG NO.: Q1422

Instrument ID: FID_C Lab Sample ID: PB166923BL

Matrix: (soil/water) Solid Date Extracted: 2/27/2025 1:10:00 P

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166923BS	PB166923BS
B-154-SB01	Q1422-01
B-154-SB02	Q1422-02
PB166923BSD	PB166923BSD

COMMENTS:

QC SAMPLE DATA

Raw Data: **FC068322.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:	PB166923BL	SDG No.:	Q1422
Lab Sample ID:	PB166923BL	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
02/27/25 13:10	02/28/25 11:00	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC068322.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC068322.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC068322.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC068322.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC068322.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD049130.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD049130.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD049130.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD049130.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.00	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	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: **FC068322.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:	PB166923BL	SDG No.:	Q1422
Lab Sample ID:	PB166923BL	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
FC068322.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.80	U	1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		41.6		40 - 140	83%	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:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FC068322.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	0	0	300	ug/ml
Aliphatic C12-C16	6.370	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.107	0	0	300	ug/ml
Aliphatic C21-C28	13.108	16.761	0	0	400	ug/ml
Aliphatic C28-C40	16.762	21.565	0	0	600	ug/ml
Aliphatic EPH	3.104	21.565	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4680251	41.61		ug/ml
Aliphatic C9-C28	3.104	16.761	0	0	1200	ug/ml

Raw Data: **FD049130.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:	PB166923BL	SDG No.:	Q1422
Lab Sample ID:	PB166923BL	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
FD049130.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.00	U	2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.0		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.8		40 - 140	116%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.7		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FD049130.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	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.073	0	0	800	ug/ml
Aromatic EPH	4.076	18.073	0	0		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8041222	49.71		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8010402	55.97		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5081253	57.8		ug/ml

Raw Data: **FC068323.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:	PB166923BS	SDG No.:	Q1422
Lab Sample ID:	PB166923BS	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
02/27/25 13:10	02/28/25 11:37	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.53		1	0.38	1.00	mg/kg	FC068323.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068323.D
Aliphatic C16-C21	Aliphatic C16-C21	9.57		1	0.30	1.00	mg/kg	FC068323.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068323.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	1.80	2.00	mg/kg	FC068323.D
Aromatic C10-C12	Aromatic C10-C12	6.49		1	0.30	0.67	mg/kg	FD049131.D
Aromatic C12-C16	Aromatic C12-C16	11.1		1	0.34	1.00	mg/kg	FD049131.D
Aromatic C16-C21	Aromatic C16-C21	21.5		1	0.96	1.67	mg/kg	FD049131.D
Aromatic C21-C36	Aromatic C21-C36	34.3		1	2.00	2.66	mg/kg	FD049131.D
Total AliphaticEPH	Total AliphaticEPH	56.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	73.4			3.60	6.00	mg/kg	
Total EPH	Total EPH	129			7.12	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: **FC068323.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:	PB166923BS	SDG No.:	Q1422
Lab Sample ID:	PB166923BS	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
FC068323.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.53		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.57		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		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:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FC068323.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	13831446	98.071	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11804868	86.385	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18912877	143.681	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23798182	193.968	400	ug/ml
Aliphatic C28-C40	16.762	21.565	32890476	319.802	600	ug/ml
Aliphatic EPH	3.104	21.565	101237849	841.906		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4376930	38.91		ug/ml
Aliphatic C9-C28	3.104	16.761	68347373	522.105	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:	PB166923BS	SDG No.:	Q1422
Lab Sample ID:	PB166923BS	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
FD049131.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.49		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.1		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.5		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.3		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.3		40 - 140	117%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	61.9		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.0		40 - 140	106%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FD049131.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	4.076	5.794	15506186	97.511	200	ug/ml
Aromatic C12-C16	5.795	8.396	26811280	166.596	300	ug/ml
Aromatic C16-C21	8.397	12.661	49558614	323.154	500	ug/ml
Aromatic C21-C36	12.662	18.073	73636189	514.525	800	ug/ml
Aromatic EPH	4.076	18.073	165512269	1100		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8337130	58.26		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5441864	61.9		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8579131	53.03		ug/ml

Raw Data: **FC068324.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:	PB166923BSD	SDG No.:	Q1422
Lab Sample ID:	PB166923BSD	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
02/27/25 13:10	02/28/25 12:13	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.56		1	0.38	1.00	mg/kg	FC068324.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068324.D
Aliphatic C16-C21	Aliphatic C16-C21	9.54		1	0.30	1.00	mg/kg	FC068324.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068324.D
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.80	2.00	mg/kg	FC068324.D
Aromatic C10-C12	Aromatic C10-C12	6.56		1	0.30	0.67	mg/kg	FD049132.D
Aromatic C12-C16	Aromatic C12-C16	11.3		1	0.34	1.00	mg/kg	FD049132.D
Aromatic C16-C21	Aromatic C16-C21	21.8		1	0.96	1.67	mg/kg	FD049132.D
Aromatic C21-C36	Aromatic C21-C36	34.9		1	2.00	2.66	mg/kg	FD049132.D
Total AliphaticEPH	Total AliphaticEPH	56.1			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	74.6			3.60	6.00	mg/kg	
Total EPH	Total EPH	131			7.12	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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1422
Lab Sample ID:	PB166923BSD	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
FC068324.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.56		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.54		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		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:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FC068324.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	13889956	98.486	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11796061	86.32	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18839655	143.125	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23724700	193.369	400	ug/ml
Aliphatic C28-C40	16.762	21.565	33036052	321.217	600	ug/ml
Aliphatic EPH	3.104	21.565	101286424	842.517		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4356774	38.74		ug/ml
Aliphatic C9-C28	3.104	16.761	68250372	521.3	1200	ug/ml

Raw Data: **FD049132.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:	PB166923BSD		SDG No.:	Q1422	
Lab Sample ID:	PB166923BSD		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
FD049132.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.56		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.3		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.8		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.9		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.0		40 - 140	126%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.6		40 - 140	107%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FD049132.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	4.076	5.794	15663141	98.498	200	ug/ml
Aromatic C12-C16	5.795	8.396	27228831	169.191	300	ug/ml
Aromatic C16-C21	8.397	12.661	50286158	327.898	500	ug/ml
Aromatic C21-C36	12.662	18.073	74965222	523.812	800	ug/ml
Aromatic EPH	4.076	18.073	168143352	1120		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8675284	53.63		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8444315	59.01		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5539761	63.01		ug/ml

Raw Data: **FC068334.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1422
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068334.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		9.70		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		9.05		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.6		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		19.4		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		34.1		2.55	2.84	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.6		40 - 140	61%	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:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FC068334.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	3.104	6.369	14464917	102.562	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13068443	95.631	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20310392	154.298	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25151936	205.002	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37089980	360.634	600	ug/ml
Aliphatic EPH	3.104	21.565	110085668	918.128		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	3447568	30.65		ug/ml
Aliphatic C9-C28	3.104	16.761	72995688	557.493	1200	ug/ml

Raw Data: **FD049142.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1422
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049142.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.80		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	17.2		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	35.7		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	57.2		2.84	3.78	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	62.2		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.3		40 - 140	67%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FD049142.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	16467986	103.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	29311275	182.13	300	ug/ml
Aromatic C16-C21	8.397	12.661	57903456	377.567	500	ug/ml
Aromatic C21-C36	12.662	18.073	86473438	604.224	800	ug/ml
Aromatic EPH	4.076	18.073	190156155	1270		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8441841	58.99		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5467908	62.2		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5392113	33.33		ug/ml

Raw Data: **FC068335.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1422
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FC068335.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	9.71		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	9.10		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.7		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	19.6		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.6		2.56	2.84	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.3		40 - 140	65%	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:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FC068335.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	3.104	6.369	14461616	102.539	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13124094	96.038	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20440502	155.287	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25406827	207.079	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37555991	365.166	600	ug/ml
Aliphatic EPH	3.104	21.565	110989030	926.109		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.838	12.838	3629508	32.27		ug/ml
Aliphatic C9-C28	3.104	16.761	73433039	560.943	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1422
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FD049143.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.34		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	16.4		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	34.2		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	55.5		2.84	3.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.9		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.1		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.0		40 - 140	64%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FD049143.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15672874	98.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	27922630	173.502	300	ug/ml
Aromatic C16-C21	8.397	12.661	55344709	360.883	500	ug/ml
Aromatic C21-C36	12.662	18.073	83844627	585.856	800	ug/ml
Aromatic EPH	4.076	18.073	182784840	1220		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8004383	55.93		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5197744	59.12		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5182415	32.03		ug/ml

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Inital Calibration Report for SequenceID : FC021125AL

AreaCount

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	39331006.000	20240186.000	8511519.000	4474674.000	2221877.000	
Aliphatic C12-C16	25563872.000	13091029.000	5472087.000	2866719.000	1444048.000	
Aliphatic C16-C21	36707935.000	18751121.000	7907675.000	4144581.000	2112599.000	
Aliphatic C21-C28	45593595.000	23234194.000	9834944.000	5144532.000	2635031.000	
Aliphatic C28-C40	56736862.000	29009865.000	12324513.000	6514067.000	3350978.000	
Aliphatic EPH	203933270.000	104326395.000	44050738.000	23144573.000	11764533.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	141035.5019998	5.636				
Aliphatic C12-C16	136654.515	5.375				
Aliphatic C16-C21	131630.8946664	6.092				
Aliphatic C21-C28	122691.3215	6.255				
Aliphatic C28-C40	102846.462333	7.171				
Aliphatic EPH	122175.1266664	6.234				

Concentration

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.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	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	131103.353333	134934.573333	141858.650000	149155.800000	148125.133333	
Aliphatic C12-C16	127819.360000	130910.290000	136802.175000	143335.950000	144404.800000	
Aliphatic C16-C21	122359.783333	125007.473333	131794.583333	138152.700000	140839.933333	

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Inital Calibration Report for SequenceID : FC021125AL

Aliphatic C21-C28	113983.987500	116170.970000	122936.800000	128613.300000	131751.550000	
Aliphatic C28-C40	94561.436666	96699.550000	102704.275000	108567.783333	111699.266666	
Aliphatic EPH	113296.261111	115918.216666	122363.161111	128580.961111	130717.033333	

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Inital Calibration Report for SequenceID : FD021125AR

AreaCount

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	30133782.000	15194817.000	6263156.000	3318077.000	1700032.000	
Aromatic C12-C16	44977690.000	22823722.000	9507721.000	5041964.000	2641021.000	
Aromatic C16-C21	58435647.000	29734390.000	12145436.000	6295751.000	3256475.000	
Aromatic C21-C36	121981098.000	62220992.000	25499877.000	13225172.000	6892110.000	
Aromatic EPH	255528217.000	129973921.000	53416190.000	27880964.000	14489638.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	159020.606	5.389				
Aromatic C12-C16	160935.8659994	6.836				
Aromatic C16-C21	153359.3085	4.411				
Aromatic C21-C36	143114.7526664	4.923				
Aromatic EPH	150128.8232216	5.194				

Concentration

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.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	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	150668.910000	151948.170000	156578.900000	165903.850000	170003.200000	
Aromatic C12-C16	149925.633333	152158.146666	158462.016666	168065.466666	176068.066666	
Aromatic C16-C21	146089.117500	148671.950000	151817.950000	157393.775000	162823.750000	
Aromatic C21-C36	135534.553333	138268.871111	141665.983333	146946.355555	153158.000000	
Aromatic EPH	141960.120555	144415.467777	148378.305555	154894.244444	160995.977777	

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Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068321.D**						
Aliphatic C9-C12	8795568.000	60.000	3.104	6.369	146592.800	141035.502	-3.940
Aliphatic C12-C16	5630378.000	40.000	6.370	9.754	140759.450	136654.515	-3.004
Aliphatic C16-C21	8123361.000	60.000	9.755	13.107	135389.350	131630.895	-2.855
Aliphatic C21-C28	10243894.000	80.000	13.108	16.761	128048.675	122691.322	-4.367
Aliphatic C28-C40	13204528.000	120.000	16.762	21.565	110037.733	102846.462	-6.992
Aliphatic EPH	45997729.000	360.000	3.104	21.565	127771.469	122175.127	-4.581

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068321.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8795568.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5630378.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	8123361.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	10243894.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13204528.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45997729.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068331.D**						
Aliphatic C9-C12	8595776.000	60.000	3.104	6.369	143262.933	141035.502	-1.579
Aliphatic C12-C16	5515542.000	40.000	6.370	9.754	137888.550	136654.515	-0.903
Aliphatic C16-C21	7931958.000	60.000	9.755	13.107	132199.300	131630.895	-0.432
Aliphatic C21-C28	9960510.000	80.000	13.108	16.761	124506.375	122691.322	-1.479
Aliphatic C28-C40	13030922.000	120.000	16.762	21.565	108591.017	102846.462	-5.586
Aliphatic EPH	45034708.000	360.000	3.104	21.565	125096.411	122175.127	-2.391

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068331.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8595776.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5515542.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7931958.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9960510.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13030922.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45034708.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068341.D**						
Aliphatic C9-C12	8509686.000	60.000	3.104	6.369	141828.100	141035.502	-0.562
Aliphatic C12-C16	5481187.000	40.000	6.370	9.754	137029.675	136654.515	-0.275
Aliphatic C16-C21	7916038.000	60.000	9.755	13.107	131933.967	131630.895	-0.230
Aliphatic C21-C28	9928727.000	80.000	13.108	16.761	124109.088	122691.322	-1.156
Aliphatic C28-C40	13203681.000	120.000	16.762	21.565	110030.675	102846.462	-6.985
Aliphatic EPH	45039319.000	360.000	3.104	21.565	125109.219	122175.127	-2.402

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068341.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8509686.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5481187.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7916038.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9928727.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13203681.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45039319.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049129.D**						
Aromatic C10-C12	6160252.000	40.000	4.076	5.794	154006.300	159020.606	3.153
Aromatic C12-C16	9402232.000	60.000	5.795	8.396	156703.867	160935.866	2.630
Aromatic C16-C21	11641914.000	80.000	8.397	12.661	145523.925	153359.309	5.109
Aromatic C21-C36	23657575.000	180.000	12.662	18.073	131430.972	143114.753	8.164
Aromatic EPH	50861973.000	360.000	4.076	18.073	141283.258	150128.823	5.892

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049129.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6160252.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	9402232.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	11641914.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	23657575.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	50861973.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049139.D**						
Aromatic C10-C12	6813477.000	40.000	4.076	5.794	170336.925	159020.606	-7.116
Aromatic C12-C16	10472510.000	60.000	5.795	8.396	174541.833	160935.866	-8.454
Aromatic C16-C21	13024891.000	80.000	8.397	12.661	162811.138	153359.309	-6.163
Aromatic C21-C36	26617558.000	180.000	12.662	18.073	147875.322	143114.753	-3.326
Aromatic EPH	56928436.000	360.000	4.076	18.073	158134.544	150128.823	-5.333

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049139.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6813477.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10472510.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13024891.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	26617558.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	56928436.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049149.D**						
Aromatic C10-C12	6973708.000	40.000	4.076	5.794	174342.700	159020.606	-9.635
Aromatic C12-C16	10519197.000	60.000	5.795	8.396	175319.950	160935.866	-8.938
Aromatic C16-C21	13182289.000	80.000	8.397	12.661	164778.613	153359.309	-7.446
Aromatic C21-C36	27715585.000	180.000	12.662	18.073	153975.472	143114.753	-7.589
Aromatic EPH	58390779.000	360.000	4.076	18.073	162196.608	150128.823	-8.038

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049149.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6973708.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10519197.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13182289.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	27715585.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	58390779.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068337.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 20:46
Operator : YP/AJ
Sample : Q1422-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-154-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:25:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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...	12.838	3488877	31.019 ug/ml
Spiked Amount 50.000		Recovery = 62.04%	
Target Compounds			

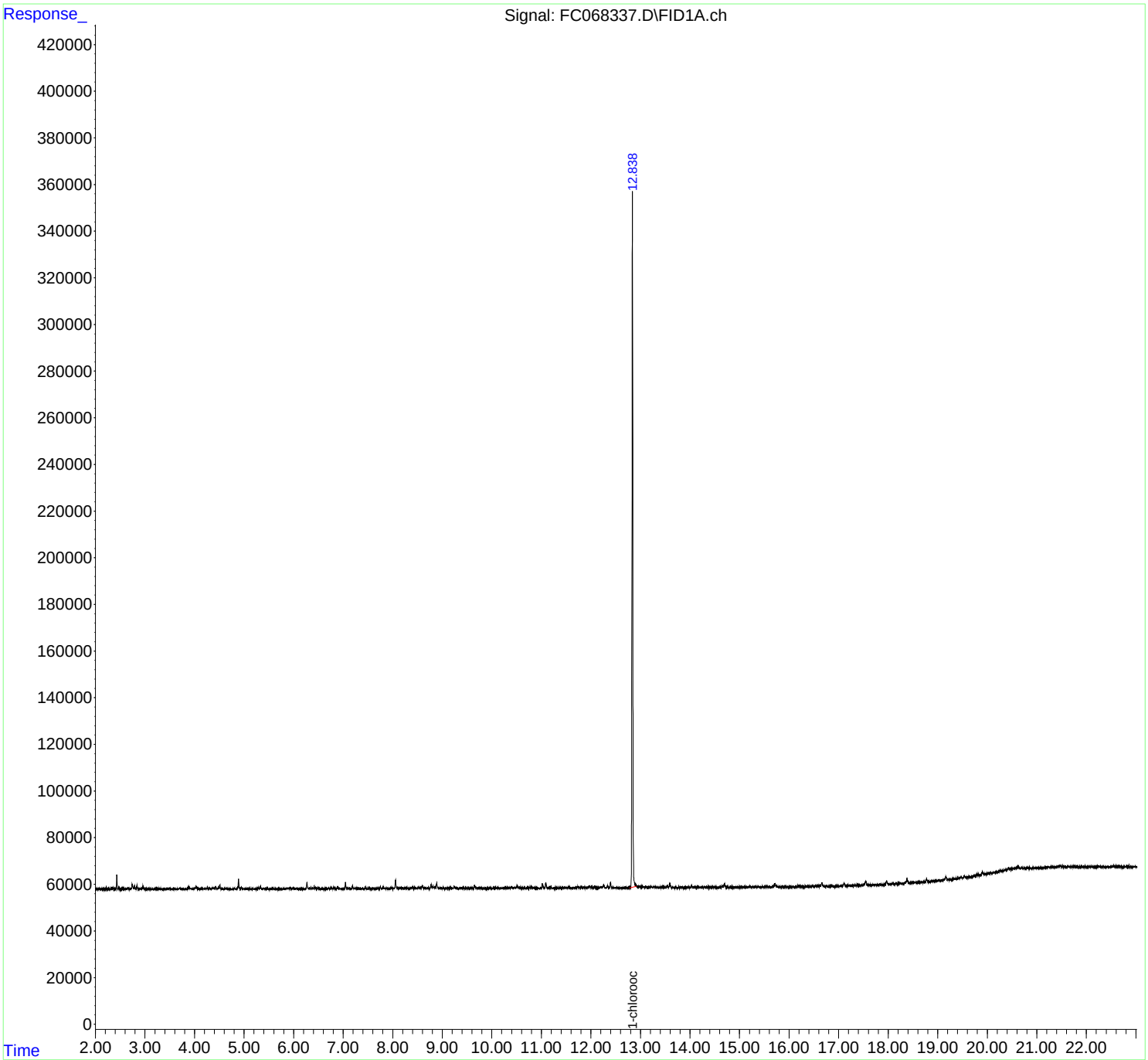
(f)=RT Delta > 1/2 Window (m)=manual int.

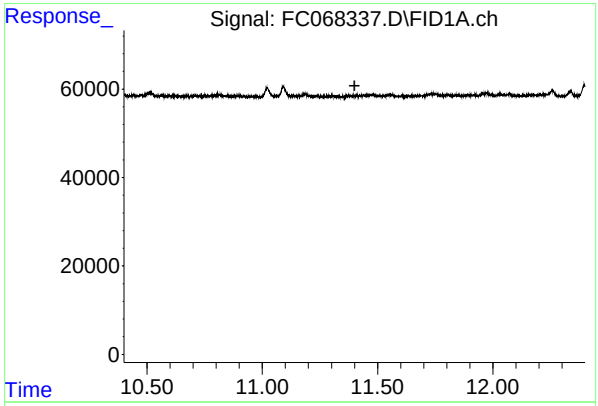
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068337.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 20:46
Operator : YP/AJ
Sample : Q1422-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-154-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:25:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

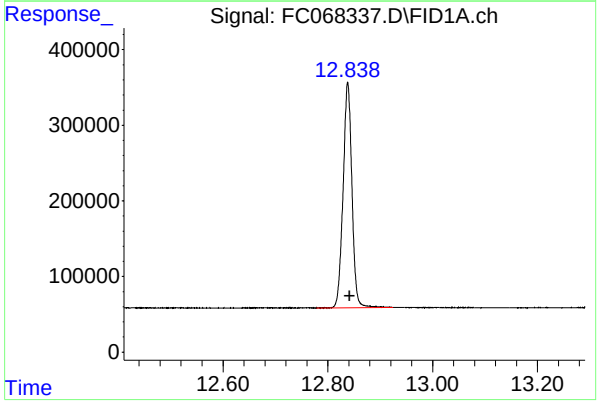




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-154-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 12.838 min
Delta R.T.: -0.003 min
Response: 3488877
Conc: 31.02 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068337.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 20:46
Sample : Q1422-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.359	2.304	2.404	BV	436	2877	0.08%	0.033%
2	2.431	2.404	2.455	PV	6140	46501	1.31%	0.536%
3	2.472	2.455	2.511	VV	856	7585	0.21%	0.087%
4	2.517	2.511	2.528	VV	71	531	0.01%	0.006%
5	2.540	2.528	2.570	PV	104	1585	0.04%	0.018%
6	2.592	2.570	2.602	VV	180	1272	0.04%	0.015%
7	2.614	2.602	2.636	VV	146	1415	0.04%	0.016%
8	2.655	2.636	2.688	PV	566	6814	0.19%	0.078%
9	2.742	2.688	2.770	VV	1940	29816	0.84%	0.343%
10	2.788	2.770	2.810	VV	1663	16830	0.47%	0.194%
11	2.838	2.810	2.861	VV	1826	18559	0.52%	0.214%
12	2.870	2.861	2.898	VV	225	3369	0.09%	0.039%
13	2.915	2.898	2.944	VV	219	4835	0.14%	0.056%
14	2.960	2.944	3.021	VV	1442	17608	0.49%	0.203%
15	3.026	3.021	3.050	VV	199	2250	0.06%	0.026%
16	3.089	3.050	3.098	VV	164	3364	0.09%	0.039%
17	3.135	3.098	3.148	VV	159	3716	0.10%	0.043%
18	3.163	3.148	3.175	VV	185	2289	0.06%	0.026%
19	3.207	3.175	3.235	VV	364	6807	0.19%	0.078%
20	3.249	3.235	3.315	VV	165	6163	0.17%	0.071%
21	3.327	3.315	3.338	VV	188	1608	0.05%	0.019%
22	3.410	3.338	3.439	PV	209	8484	0.24%	0.098%
23	3.498	3.439	3.514	VV	678	10809	0.30%	0.124%
24	3.524	3.514	3.545	VV	419	4212	0.12%	0.049%
25	3.570	3.545	3.601	VV	271	6544	0.18%	0.075%
26	3.608	3.601	3.636	VV	280	3821	0.11%	0.044%
27	3.651	3.636	3.662	VV	204	2357	0.07%	0.027%
28	3.669	3.662	3.674	VV	120	854	0.02%	0.010%
29	3.694	3.674	3.738	VV	456	9640	0.27%	0.111%
30	3.744	3.738	3.761	VV	232	2756	0.08%	0.032%
31	3.775	3.761	3.833	VV	392	9152	0.26%	0.105%
32	3.866	3.833	3.878	VV	687	8909	0.25%	0.103%
33	3.893	3.878	3.946	VV	1077	16245	0.46%	0.187%
34	3.956	3.946	3.989	VV	267	4536	0.13%	0.052%
35	4.032	3.989	4.070	VV	1088	25074	0.70%	0.289%
36	4.084	4.070	4.122	VV	264	6251	0.18%	0.072%

rteres

37	4.165	4.122	4.208	VV	220	10063	0.28%	0.116%
38	4.220	4.208	4.237	VV	226	4023	0.11%	0.046%
39	4.262	4.237	4.287	VV	723	11540	0.32%	0.133%
40	4.300	4.287	4.341	VV	465	9879	0.28%	0.114%
41	4.366	4.341	4.394	VV	543	10597	0.30%	0.122%
42	4.428	4.394	4.465	VV	1305	21328	0.60%	0.246%
43	4.483	4.465	4.497	VV	981	10776	0.30%	0.124%
44	4.513	4.497	4.552	VV	1807	20180	0.57%	0.232%
45	4.580	4.552	4.591	VV	179	3198	0.09%	0.037%
46	4.630	4.591	4.668	VV	247	7451	0.21%	0.086%
47	4.675	4.668	4.693	VV	167	2110	0.06%	0.024%
48	4.706	4.693	4.753	VV	242	4062	0.11%	0.047%
49	4.785	4.753	4.794	VV	163	2444	0.07%	0.028%
50	4.811	4.794	4.848	VV	317	5285	0.15%	0.061%
51	4.889	4.848	4.924	VV	4355	53999	1.52%	0.622%
52	4.946	4.924	4.990	VV	878	14082	0.40%	0.162%
53	5.000	4.990	5.044	VV	184	4236	0.12%	0.049%
54	5.080	5.044	5.111	VV	287	5934	0.17%	0.068%
55	5.124	5.111	5.150	VV	248	3562	0.10%	0.041%
56	5.178	5.150	5.195	VV	268	4818	0.14%	0.055%
57	5.203	5.195	5.218	VV	162	1523	0.04%	0.018%
58	5.257	5.218	5.273	VV	193	4141	0.12%	0.048%
59	5.292	5.273	5.308	VV	539	7020	0.20%	0.081%
60	5.331	5.308	5.367	VV	1389	19778	0.56%	0.228%
61	5.389	5.367	5.418	VV	328	6748	0.19%	0.078%
62	5.431	5.418	5.441	VV	182	2149	0.06%	0.025%
63	5.469	5.441	5.554	VV	348	11105	0.31%	0.128%
64	5.579	5.554	5.607	VV	260	6052	0.17%	0.070%
65	5.657	5.607	5.691	VV	219	6929	0.19%	0.080%
66	5.698	5.691	5.719	VV	151	1496	0.04%	0.017%
67	5.844	5.719	5.864	VV	341	14988	0.42%	0.173%
68	5.886	5.864	5.907	VV	381	7236	0.20%	0.083%
69	5.929	5.907	5.961	VV	719	11262	0.32%	0.130%
70	5.989	5.961	6.026	VV	351	9095	0.26%	0.105%
71	6.060	6.026	6.091	VV	380	9446	0.27%	0.109%
72	6.102	6.091	6.146	VV	184	3619	0.10%	0.042%
73	6.191	6.146	6.219	VV	218	6217	0.17%	0.072%
74	6.235	6.219	6.248	VV	173	2353	0.07%	0.027%
75	6.269	6.248	6.328	VV	2892	41053	1.15%	0.473%
76	6.351	6.328	6.370	VV	772	9992	0.28%	0.115%
77	6.387	6.370	6.399	VV	482	5512	0.15%	0.063%
78	6.416	6.399	6.436	VV	1036	13355	0.38%	0.154%
79	6.447	6.436	6.468	VV	399	5908	0.17%	0.068%
80	6.488	6.468	6.536	VV	678	10887	0.31%	0.125%
81	6.546	6.536	6.558	VV	144	1519	0.04%	0.017%
82	6.574	6.558	6.586	VV	203	2229	0.06%	0.026%
83	6.591	6.586	6.618	VV	139	1503	0.04%	0.017%
84	6.631	6.618	6.649	VV	215	2588	0.07%	0.030%
85	6.660	6.649	6.681	VV	202	2877	0.08%	0.033%
86	6.708	6.681	6.738	VV	746	10186	0.29%	0.117%
87	6.760	6.738	6.798	PV	746	14813	0.42%	0.171%
88	6.809	6.798	6.855	VV	760	15415	0.43%	0.178%
89	6.886	6.855	6.909	VV	1162	17052	0.48%	0.196%

rteres

90	6.927	6.909	6.948	VV	240	3728	0.10%	0.043%
91	6.991	6.948	7.017	VV	276	7668	0.22%	0.088%
92	7.047	7.017	7.087	VV	2969	34570	0.97%	0.398%
93	7.102	7.087	7.114	VV	321	4188	0.12%	0.048%
94	7.125	7.114	7.139	VV	423	4632	0.13%	0.053%
95	7.154	7.139	7.165	VV	463	5180	0.15%	0.060%
96	7.189	7.165	7.238	VV	1097	20960	0.59%	0.241%
97	7.248	7.238	7.264	VV	461	5778	0.16%	0.067%
98	7.278	7.264	7.306	VV	483	7091	0.20%	0.082%
99	7.340	7.306	7.384	VV	213	5426	0.15%	0.062%
100	7.392	7.384	7.414	VV	152	1970	0.06%	0.023%
101	7.448	7.414	7.476	VV	1016	12940	0.36%	0.149%
102	7.532	7.476	7.542	PV	223	4598	0.13%	0.053%
103	7.549	7.542	7.571	VV	197	2222	0.06%	0.026%
104	7.609	7.571	7.627	VV	214	5828	0.16%	0.067%
105	7.654	7.627	7.689	VV	233	6391	0.18%	0.074%
106	7.709	7.689	7.731	VV	302	4490	0.13%	0.052%
107	7.752	7.731	7.778	VV	850	9956	0.28%	0.115%
108	7.809	7.778	7.829	VV	770	9883	0.28%	0.114%
109	7.846	7.829	7.862	VV	244	3919	0.11%	0.045%
110	7.878	7.862	7.904	VV	366	4716	0.13%	0.054%
111	7.909	7.904	7.946	VV	108	2285	0.06%	0.026%
112	7.963	7.946	8.021	VV	354	8423	0.24%	0.097%
113	8.057	8.021	8.134	VV	3855	58047	1.63%	0.668%
114	8.167	8.134	8.185	VV	566	13122	0.37%	0.151%
115	8.202	8.185	8.234	VV	518	9894	0.28%	0.114%
116	8.248	8.234	8.270	VV	481	6331	0.18%	0.073%
117	8.288	8.270	8.330	VV	512	7791	0.22%	0.090%
118	8.403	8.330	8.450	VV	632	26427	0.74%	0.304%
119	8.471	8.450	8.489	VV	436	8629	0.24%	0.099%
120	8.506	8.489	8.534	VV	579	12765	0.36%	0.147%
121	8.544	8.534	8.573	VV	513	10024	0.28%	0.115%
122	8.593	8.573	8.632	VV	996	22753	0.64%	0.262%
123	8.652	8.632	8.684	VV	429	8125	0.23%	0.094%
124	8.707	8.684	8.728	VV	431	6483	0.18%	0.075%
125	8.742	8.728	8.750	VV	315	3256	0.09%	0.037%
126	8.775	8.750	8.798	VV	1840	26024	0.73%	0.300%
127	8.810	8.798	8.858	VV	966	24359	0.68%	0.281%
128	8.890	8.858	8.943	VV	2320	43498	1.22%	0.501%
129	8.962	8.943	8.984	VV	605	8921	0.25%	0.103%
130	9.011	8.984	9.039	VV	391	6683	0.19%	0.077%
131	9.070	9.039	9.080	VV	337	5154	0.14%	0.059%
132	9.089	9.080	9.104	VV	265	3607	0.10%	0.042%
133	9.112	9.104	9.137	VV	266	4284	0.12%	0.049%
134	9.172	9.137	9.214	VV	496	13009	0.37%	0.150%
135	9.239	9.214	9.275	VV	929	14938	0.42%	0.172%
136	9.306	9.275	9.356	VV	313	8373	0.24%	0.096%
137	9.381	9.356	9.413	VV	374	6997	0.20%	0.081%
138	9.431	9.413	9.510	VV	483	11599	0.33%	0.134%
139	9.520	9.510	9.554	VV	147	2428	0.07%	0.028%
140	9.574	9.554	9.618	VV	360	7190	0.20%	0.083%
141	9.653	9.618	9.702	VV	1435	23566	0.66%	0.271%

rteres

142	9.731	9.702	9.788	VV	355	11530	0.32%	0.133%
143	9.798	9.788	9.842	VV	230	5139	0.14%	0.059%
144	9.919	9.842	9.944	VV	221	6821	0.19%	0.079%
145	9.969	9.944	10.011	VV	405	8782	0.25%	0.101%
146	10.044	10.011	10.062	VV	418	8689	0.24%	0.100%
147	10.081	10.062	10.101	VV	369	6434	0.18%	0.074%
148	10.133	10.101	10.148	VV	416	6961	0.20%	0.080%
149	10.159	10.148	10.204	VV	271	5764	0.16%	0.066%
150	10.249	10.204	10.304	VV	389	14316	0.40%	0.165%
151	10.330	10.304	10.350	VV	513	9706	0.27%	0.112%
152	10.392	10.350	10.428	VV	654	17498	0.49%	0.202%
153	10.442	10.428	10.458	VV	453	5920	0.17%	0.068%
154	10.477	10.458	10.486	VV	459	6224	0.17%	0.072%
155	10.514	10.486	10.548	VV	1134	21942	0.62%	0.253%
156	10.563	10.548	10.594	VV	331	6802	0.19%	0.078%
157	10.601	10.594	10.684	VV	280	10993	0.31%	0.127%
158	10.711	10.684	10.731	VV	330	5971	0.17%	0.069%
159	10.756	10.731	10.767	VV	276	4544	0.13%	0.052%
160	10.777	10.767	10.790	VV	306	3510	0.10%	0.040%
161	10.811	10.790	10.834	VV	519	9245	0.26%	0.106%
162	10.843	10.834	10.866	VV	277	3754	0.11%	0.043%
163	10.875	10.866	10.881	VV	189	1399	0.04%	0.016%
164	10.892	10.881	10.957	VV	283	5695	0.16%	0.066%
165	10.966	10.957	10.988	VV	136	1543	0.04%	0.018%
166	11.021	10.988	11.055	PV	2065	30012	0.84%	0.346%
167	11.091	11.055	11.128	VV	2368	35804	1.01%	0.412%
168	11.138	11.128	11.160	VV	242	4441	0.12%	0.051%
169	11.185	11.160	11.231	VV	695	12777	0.36%	0.147%
170	11.238	11.231	11.259	VV	146	1755	0.05%	0.020%
171	11.313	11.259	11.358	VV	163	5372	0.15%	0.062%
172	11.441	11.358	11.458	VV	312	13127	0.37%	0.151%
173	11.479	11.458	11.532	VV	435	12715	0.36%	0.146%
174	11.555	11.532	11.590	VV	416	9872	0.28%	0.114%
175	11.608	11.590	11.633	VV	173	3054	0.09%	0.035%
176	11.733	11.633	11.779	VV	649	28773	0.81%	0.331%
177	11.800	11.779	11.828	VV	375	8893	0.25%	0.102%
178	11.850	11.828	11.872	VV	304	6273	0.18%	0.072%
179	11.891	11.872	11.938	VV	431	12209	0.34%	0.141%
180	11.973	11.938	12.012	VV	853	22730	0.64%	0.262%
181	12.030	12.012	12.053	VV	557	9499	0.27%	0.109%
182	12.070	12.053	12.094	VV	545	9071	0.25%	0.104%
183	12.163	12.094	12.190	VV	379	14777	0.42%	0.170%
184	12.259	12.190	12.296	VV	1379	34581	0.97%	0.398%
185	12.337	12.296	12.364	VV	1281	18594	0.52%	0.214%
186	12.396	12.364	12.471	VV	2561	39797	1.12%	0.458%
187	12.510	12.471	12.618	VV	290	10129	0.28%	0.117%
188	12.678	12.618	12.733	VV	258	12063	0.34%	0.139%
189	12.765	12.733	12.777	VV	257	4842	0.14%	0.056%
190	12.838	12.777	12.991	VV	297951	3558499	100.00%	40.981%
191	13.005	12.991	13.094	VV	671	31192	0.88%	0.359%
192	13.126	13.094	13.178	VV	452	15985	0.45%	0.184%
193	13.217	13.178	13.247	VV	464	14289	0.40%	0.165%
194	13.290	13.247	13.324	VV	537	18225	0.51%	0.210%

rteres

195	13.340	13.324	13.395	VV	284	10635	0.30%	0.122%
196	13.464	13.395	13.512	VV	410	19366	0.54%	0.223%
197	13.541	13.512	13.568	VV	1029	18345	0.52%	0.211%
198	13.593	13.568	13.760	VV	2208	47999	1.35%	0.553%
199	13.819	13.760	13.916	PV	286	16174	0.45%	0.186%
200	14.033	13.916	14.104	VV	878	32620	0.92%	0.376%
201	14.155	14.104	14.208	VV	375	14922	0.42%	0.172%
202	14.292	14.208	14.376	VV	326	23413	0.66%	0.270%
203	14.463	14.376	14.589	VV	345	25006	0.70%	0.288%
204	14.652	14.589	14.670	VV	830	16753	0.47%	0.193%
205	14.695	14.670	14.830	VV	1823	40710	1.14%	0.469%
206	14.862	14.830	14.916	VV	226	6325	0.18%	0.073%
207	14.939	14.916	14.958	VV	171	2471	0.07%	0.028%
208	14.997	14.958	15.031	VV	174	3649	0.10%	0.042%
209	15.082	15.031	15.098	VV	127	3814	0.11%	0.044%
210	15.216	15.098	15.308	VV	411	20028	0.56%	0.231%
211	15.351	15.308	15.368	VV	203	4692	0.13%	0.054%
212	15.398	15.368	15.464	VV	201	8751	0.25%	0.101%
213	15.549	15.464	15.639	VV	293	18226	0.51%	0.210%
214	15.713	15.639	15.842	VV	1504	44639	1.25%	0.514%
215	15.897	15.842	15.938	VV	186	6234	0.18%	0.072%
216	15.959	15.938	15.977	PV	94	1339	0.04%	0.015%
217	16.048	15.977	16.131	PV	165	7350	0.21%	0.085%
218	16.196	16.131	16.341	VV	629	21643	0.61%	0.249%
219	16.369	16.341	16.441	VV	220	9604	0.27%	0.111%
220	16.495	16.441	16.518	VV	201	6738	0.19%	0.078%
221	16.547	16.518	16.598	VV	267	9457	0.27%	0.109%
222	16.661	16.598	16.795	VV	1654	47330	1.33%	0.545%
223	16.821	16.795	16.918	PV	125	3967	0.11%	0.046%
224	16.955	16.918	16.994	PV	208	4201	0.12%	0.048%
225	17.112	16.994	17.168	VV	1117	28103	0.79%	0.324%
226	17.230	17.168	17.291	VV	256	9160	0.26%	0.105%
227	17.312	17.291	17.358	VV	150	4446	0.12%	0.051%
228	17.395	17.358	17.414	VV	131	4075	0.11%	0.047%
229	17.547	17.414	17.634	VV	1944	50278	1.41%	0.579%
230	17.716	17.634	17.761	VV	189	9562	0.27%	0.110%
231	17.843	17.761	17.894	PV	237	7459	0.21%	0.086%
232	17.970	17.894	18.071	PV	1624	31764	0.89%	0.366%
233	18.181	18.071	18.204	VV	68	5268	0.15%	0.061%
234	18.242	18.204	18.291	VV	217	6637	0.19%	0.076%
235	18.379	18.291	18.454	VV	2000	43868	1.23%	0.505%
236	18.500	18.454	18.601	VV	240	7681	0.22%	0.088%
237	18.638	18.601	18.654	PV	146	2479	0.07%	0.029%
238	18.777	18.654	18.819	VV	1202	24499	0.69%	0.282%
239	18.832	18.819	18.844	VV	163	1652	0.05%	0.019%
240	18.909	18.844	18.924	VV	188	5752	0.16%	0.066%
241	18.951	18.924	18.994	VV	289	6511	0.18%	0.075%
242	19.162	18.994	19.237	PV	1638	52651	1.48%	0.606%
243	19.467	19.237	19.499	VV	610	51481	1.45%	0.593%
244	19.538	19.499	19.568	VV	1133	27861	0.78%	0.321%
245	19.592	19.568	19.609	VV	497	11796	0.33%	0.136%
246	19.798	19.609	19.834	VV	1576	101312	2.85%	1.167%

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247	19.901	19.834	19.933	VV	2060	73835	2.07%	0.850%
248	19.977	19.933	19.992	VV	1255	42573	1.20%	0.490%
249	20.259	19.992	20.278	VV	2036	251251	7.06%	2.893%
250	20.433	20.278	20.481	VV	2816	267741	7.52%	3.083%
251	20.613	20.481	20.662	VV	3149	278459	7.83%	3.207%
252	20.684	20.662	20.753	VV	2420	127095	3.57%	1.464%
253	20.823	20.753	20.866	VV	2164	142656	4.01%	1.643%
254	20.950	20.866	20.991	VV	1989	143888	4.04%	1.657%
255	21.016	20.991	21.078	VV	1905	93325	2.62%	1.075%
256	21.297	21.078	21.337	VV	1633	256647	7.21%	2.956%
257	21.470	21.337	21.603	VV	1723	227262	6.39%	2.617%
258	21.633	21.603	21.721	VV	1181	75288	2.12%	0.867%
259	21.794	21.721	21.858	VV	884	68352	1.92%	0.787%
260	21.865	21.858	21.881	VV	740	9399	0.26%	0.108%
261	21.983	21.881	22.020	VV	576	43121	1.21%	0.497%
262	22.039	22.020	22.179	VV	385	21075	0.59%	0.243%

Sum of corrected areas: 8683366

Aliphatic EPH 021125.M Sat Mar 01 01:33:31 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049145.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 20:46
Operator : YP/AJ
Sample : Q1422-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-154-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:22:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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...	7.351	8363016	58.438 ug/ml
Spiked Amount 50.000		Recovery = 116.88%	
6) S 2-Flurobiphenyl (SURR)	8.201	5346083	60.812 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 121.62%	
11) S ortho-Terphenyl (SURR)	11.234	5608061	34.666 ug/ml
Spiked Amount 50.000		Recovery = 69.33%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

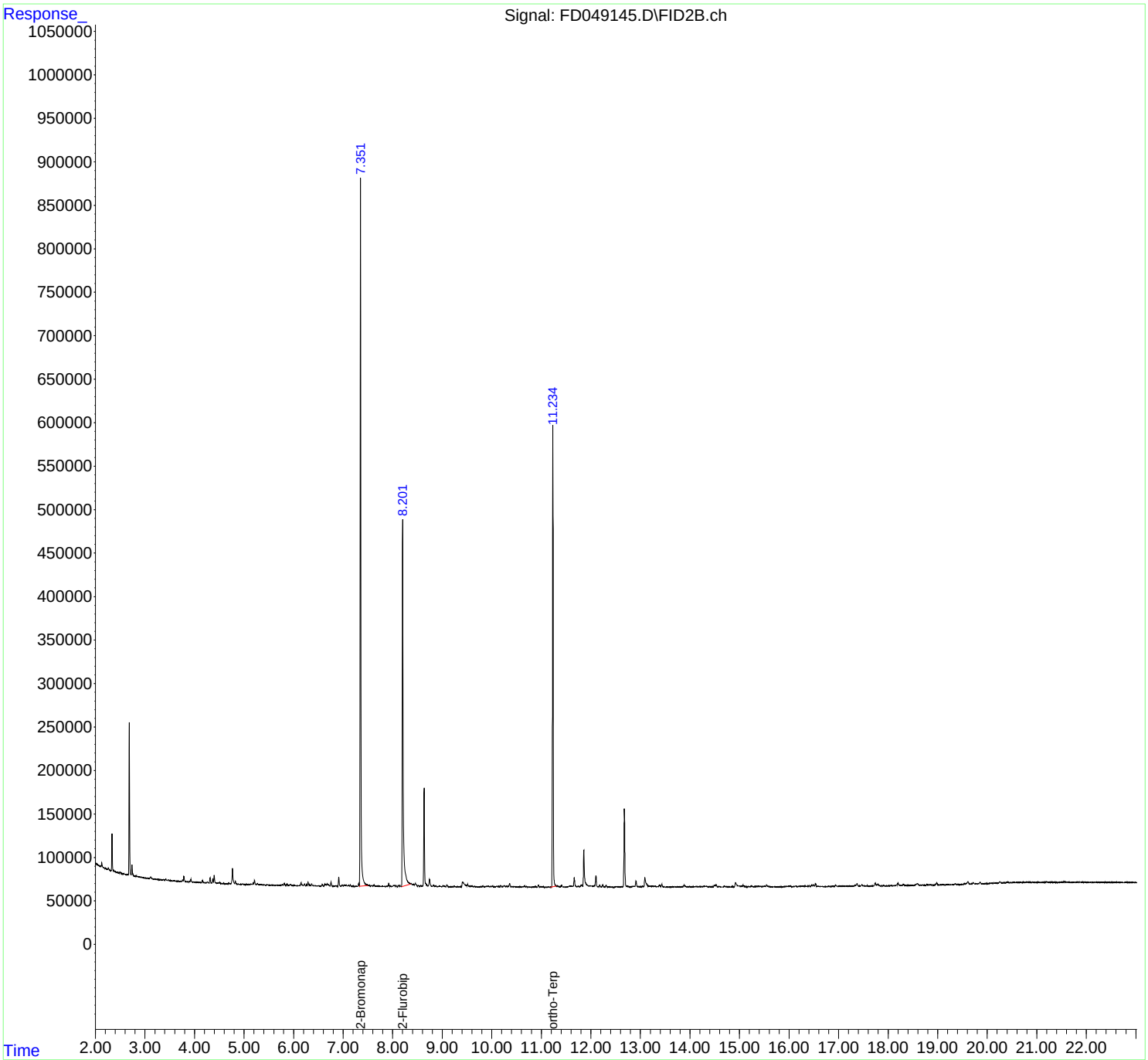
Sample Results: **FD049145.D**

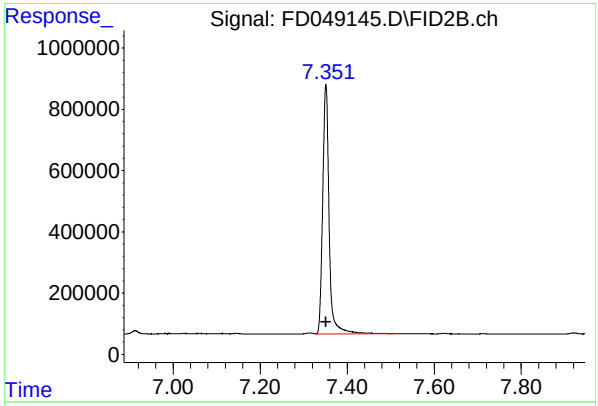
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049145.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 20:46
Operator : YP/AJ
Sample : Q1422-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-154-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:22:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

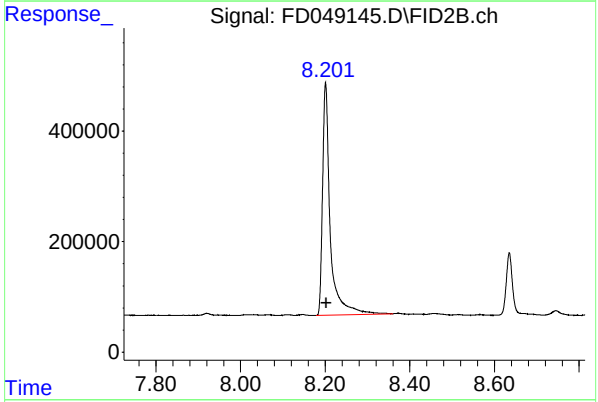




#4 2-Bromonaphthalene (SURR)

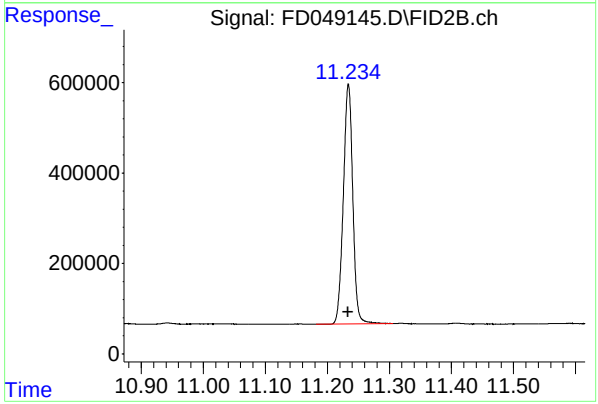
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 8363016
Conc: 58.44 ug/ml

Instrument :
FID_D
ClientSampleId :
B-154-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: -0.001 min
Response: 5346083
Conc: 60.81 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 5608061
Conc: 34.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049145.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 20:46
Sample : Q1422-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.051	4.042	4.093	BV	268	3527	0.04%	0.012%
2	4.110	4.105	4.132	PV	226	1060	0.01%	0.004%
3	4.158	4.132	4.205	PV	2893	44419	0.53%	0.147%
4	4.215	4.205	4.225	VV	457	4204	0.05%	0.014%
5	4.261	4.225	4.287	VV	1408	22510	0.27%	0.074%
6	4.314	4.287	4.337	VV	6304	68475	0.81%	0.226%
7	4.343	4.337	4.349	VV	585	3381	0.04%	0.011%
8	4.369	4.349	4.383	VV	5177	53165	0.63%	0.176%
9	4.397	4.383	4.449	VV	9305	106084	1.26%	0.351%
10	4.454	4.449	4.471	VV	357	3785	0.04%	0.013%
11	4.484	4.471	4.498	VV	984	11279	0.13%	0.037%
12	4.511	4.498	4.550	VV	1091	15930	0.19%	0.053%
13	4.579	4.559	4.621	VV	549	11708	0.14%	0.039%
14	4.629	4.621	4.634	PV	246	1026	0.01%	0.003%
15	4.638	4.634	4.647	VV	242	1085	0.01%	0.004%
16	4.652	4.647	4.664	VV	170	1005	0.01%	0.003%
17	4.690	4.673	4.707	VV	1055	10974	0.13%	0.036%
18	4.709	4.707	4.726	VV	452	3889	0.05%	0.013%
19	4.767	4.726	4.809	VV	18260	244411	2.91%	0.808%
20	4.826	4.809	4.854	VV	3628	44005	0.52%	0.145%
21	4.862	4.854	4.876	VV	393	3534	0.04%	0.012%
22	4.880	4.876	4.920	VV	318	5177	0.06%	0.017%
23	4.928	4.920	4.947	VV	366	3554	0.04%	0.012%
24	4.966	4.947	4.991	VV	750	10741	0.13%	0.035%
25	4.994	4.991	5.028	VV	333	3170	0.04%	0.010%
26	5.051	5.028	5.065	PV	293	4629	0.06%	0.015%
27	5.068	5.065	5.077	VV	214	1495	0.02%	0.005%
28	5.104	5.077	5.119	VV	457	8515	0.10%	0.028%
29	5.138	5.119	5.163	VV	844	16338	0.19%	0.054%
30	5.183	5.163	5.195	VV	1906	24021	0.29%	0.079%
31	5.211	5.195	5.250	VV	5494	70416	0.84%	0.233%
32	5.269	5.250	5.301	VV	1462	24958	0.30%	0.082%
33	5.338	5.301	5.345	VV	875	13454	0.16%	0.044%
34	5.347	5.345	5.372	VV	668	7463	0.09%	0.025%
35	5.377	5.372	5.396	VV	305	3023	0.04%	0.010%
36	5.409	5.403	5.415	VV	290	1405	0.02%	0.005%

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37	5.418	5.415	5.437	VV	252	2134	0.03%	0.007%
38	5.466	5.437	5.510	PV	693	12171	0.14%	0.040%
39	5.515	5.510	5.520	VV	298	1225	0.01%	0.004%
40	5.522	5.520	5.530	VV	320	1115	0.01%	0.004%
41	5.535	5.530	5.566	VV	293	2158	0.03%	0.007%
42	5.583	5.566	5.590	VV	340	2574	0.03%	0.009%
43	5.594	5.590	5.623	VV	232	1761	0.02%	0.006%
44	5.630	5.623	5.642	PV	170	1203	0.01%	0.004%
45	5.650	5.642	5.659	VV	227	1310	0.02%	0.004%
46	5.667	5.659	5.677	VV	239	1409	0.02%	0.005%
47	5.691	5.677	5.705	VV	284	2802	0.03%	0.009%
48	5.732	5.705	5.750	VV	565	8201	0.10%	0.027%
49	5.770	5.750	5.789	VV	1077	13487	0.16%	0.045%
50	5.811	5.789	5.853	VV	2822	41926	0.50%	0.139%
51	5.870	5.853	5.898	VV	1960	25824	0.31%	0.085%
52	5.937	5.898	5.995	VV	1344	32806	0.39%	0.108%
53	6.007	5.995	6.023	VV	362	2152	0.03%	0.007%
54	6.030	6.023	6.060	PV	255	1851	0.02%	0.006%
55	6.069	6.060	6.106	PV	265	4906	0.06%	0.016%
56	6.114	6.106	6.119	VV	281	1699	0.02%	0.006%
57	6.124	6.119	6.126	VV	259	1047	0.01%	0.003%
58	6.152	6.126	6.196	VV	3691	57946	0.69%	0.191%
59	6.222	6.196	6.240	VV	2524	30224	0.36%	0.100%
60	6.262	6.240	6.275	VV	1546	18547	0.22%	0.061%
61	6.292	6.275	6.312	VV	4579	55352	0.66%	0.183%
62	6.320	6.312	6.345	VV	1345	17563	0.21%	0.058%
63	6.366	6.345	6.395	VV	2560	33832	0.40%	0.112%
64	6.404	6.395	6.433	VV	465	7615	0.09%	0.025%
65	6.442	6.433	6.453	VV	280	2466	0.03%	0.008%
66	6.467	6.453	6.488	VV	313	4831	0.06%	0.016%
67	6.499	6.488	6.528	VV	474	7427	0.09%	0.025%
68	6.537	6.528	6.545	VV	327	1906	0.02%	0.006%
69	6.578	6.555	6.606	PV	2286	30834	0.37%	0.102%
70	6.630	6.606	6.652	VV	2290	40779	0.48%	0.135%
71	6.677	6.652	6.691	VV	3066	48739	0.58%	0.161%
72	6.702	6.691	6.731	VV	2281	32972	0.39%	0.109%
73	6.756	6.731	6.790	VV	4773	66022	0.78%	0.218%
74	6.794	6.790	6.815	VV	465	5329	0.06%	0.018%
75	6.833	6.815	6.843	VV	701	8509	0.10%	0.028%
76	6.857	6.843	6.890	VV	1081	14970	0.18%	0.049%
77	6.913	6.890	6.960	VV	10965	123738	1.47%	0.409%
78	6.984	6.960	7.006	VV	1680	29958	0.36%	0.099%
79	7.025	7.006	7.048	VV	1992	31946	0.38%	0.106%
80	7.061	7.048	7.078	VV	2061	25388	0.30%	0.084%
81	7.089	7.078	7.099	VV	970	10220	0.12%	0.034%
82	7.113	7.099	7.130	VV	1528	20792	0.25%	0.069%
83	7.146	7.130	7.173	VV	2250	26153	0.31%	0.086%
84	7.200	7.173	7.212	VV	549	7920	0.09%	0.026%
85	7.215	7.212	7.234	VV	513	3025	0.04%	0.010%
86	7.257	7.234	7.286	PV	487	7663	0.09%	0.025%
87	7.314	7.286	7.328	VV	3648	40665	0.48%	0.134%
88	7.351	7.328	7.471	VV	814428	8412646	100.00%	27.800%
89	7.475	7.471	7.506	VV	2538	41221	0.49%	0.136%

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90	7.514	7.506	7.528	VV	1690	19172	0.23%	0.063%
91	7.534	7.528	7.545	VV	1253	11541	0.14%	0.038%
92	7.551	7.545	7.568	VV	1067	13575	0.16%	0.045%
93	7.579	7.568	7.605	VV	1416	22449	0.27%	0.074%
94	7.623	7.605	7.669	VV	2498	41990	0.50%	0.139%
95	7.677	7.669	7.683	VV	696	4611	0.05%	0.015%
96	7.686	7.683	7.697	VV	623	3866	0.05%	0.013%
97	7.710	7.697	7.765	VV	1007	24553	0.29%	0.081%
98	7.783	7.765	7.802	VV	541	8098	0.10%	0.027%
99	7.805	7.802	7.820	VV	427	3643	0.04%	0.012%
100	7.832	7.820	7.851	VV	441	6156	0.07%	0.020%
101	7.866	7.851	7.871	VV	561	4175	0.05%	0.014%
102	7.878	7.871	7.883	VV	467	2560	0.03%	0.008%
103	7.887	7.883	7.900	VV	492	4288	0.05%	0.014%
104	7.920	7.900	7.940	VV	4037	47339	0.56%	0.156%
105	7.948	7.940	7.960	VV	1041	9424	0.11%	0.031%
106	7.966	7.960	7.989	VV	526	5993	0.07%	0.020%
107	8.014	7.989	8.025	VV	1559	20954	0.25%	0.069%
108	8.031	8.025	8.052	VV	1634	19960	0.24%	0.066%
109	8.066	8.052	8.091	VV	1587	20172	0.24%	0.067%
110	8.112	8.091	8.129	VV	1653	19943	0.24%	0.066%
111	8.146	8.129	8.174	VV	1742	22870	0.27%	0.076%
112	8.201	8.174	8.360	VV	420449	5534690	65.79%	18.289%
113	8.373	8.360	8.398	VV	4163	77350	0.92%	0.256%
114	8.409	8.398	8.438	VV	2894	63251	0.75%	0.209%
115	8.458	8.438	8.497	VV	4040	93772	1.11%	0.310%
116	8.516	8.497	8.543	VV	1875	35340	0.42%	0.117%
117	8.564	8.543	8.594	VV	1793	34845	0.41%	0.115%
118	8.635	8.594	8.714	VV	113885	1244277	14.79%	4.112%
119	8.745	8.714	8.803	VV	8998	163322	1.94%	0.540%
120	8.822	8.803	8.847	VV	2208	35172	0.42%	0.116%
121	8.851	8.847	8.857	VV	1009	5715	0.07%	0.019%
122	8.868	8.857	8.902	VV	1615	26665	0.32%	0.088%
123	8.907	8.902	8.911	VV	628	2527	0.03%	0.008%
124	8.926	8.911	8.932	VV	768	7951	0.09%	0.026%
125	8.944	8.932	8.990	VV	994	26699	0.32%	0.088%
126	9.018	8.990	9.030	VV	1562	23839	0.28%	0.079%
127	9.036	9.030	9.073	VV	1293	19144	0.23%	0.063%
128	9.094	9.073	9.147	VV	2556	41901	0.50%	0.138%
129	9.170	9.147	9.192	PV	531	9562	0.11%	0.032%
130	9.201	9.192	9.217	VV	609	5878	0.07%	0.019%
131	9.242	9.217	9.267	VV	1446	21078	0.25%	0.070%
132	9.273	9.267	9.279	VV	276	1446	0.02%	0.005%
133	9.306	9.279	9.335	VV	687	14378	0.17%	0.048%
134	9.344	9.335	9.358	VV	640	6238	0.07%	0.021%
135	9.368	9.358	9.379	VV	563	5958	0.07%	0.020%
136	9.386	9.379	9.391	VV	539	3248	0.04%	0.011%
137	9.410	9.391	9.495	VV	6270	206838	2.46%	0.683%
138	9.513	9.495	9.545	VV	3229	59521	0.71%	0.197%
139	9.548	9.545	9.555	VV	1058	5768	0.07%	0.019%
140	9.581	9.555	9.603	VV	1467	33083	0.39%	0.109%
141	9.609	9.603	9.640	VV	1250	19729	0.23%	0.065%

rteres

142	9.647	9.640	9.668	VV	1033	12153	0.14%	0.040%
143	9.682	9.668	9.710	VV	704	9984	0.12%	0.033%
144	9.716	9.710	9.733	VV	244	1962	0.02%	0.006%
145	9.781	9.733	9.794	VV	911	18103	0.22%	0.060%
146	9.819	9.794	9.848	VV	1530	28639	0.34%	0.095%
147	9.901	9.848	9.920	VV	1344	34392	0.41%	0.114%
148	9.933	9.920	9.950	VV	1209	16262	0.19%	0.054%
149	9.970	9.950	9.981	VV	1010	14628	0.17%	0.048%
150	9.989	9.981	9.995	VV	834	5912	0.07%	0.020%
151	10.013	9.995	10.039	VV	1785	25633	0.30%	0.085%
152	10.042	10.039	10.047	VV	530	2203	0.03%	0.007%
153	10.054	10.047	10.067	VV	630	5609	0.07%	0.019%
154	10.102	10.067	10.117	VV	1401	26207	0.31%	0.087%
155	10.135	10.117	10.153	VV	1165	19279	0.23%	0.064%
156	10.180	10.153	10.204	VV	2022	36061	0.43%	0.119%
157	10.222	10.204	10.230	VV	994	12766	0.15%	0.042%
158	10.253	10.230	10.278	VV	2053	38312	0.46%	0.127%
159	10.292	10.278	10.308	VV	1461	19748	0.23%	0.065%
160	10.323	10.308	10.338	VV	1342	17549	0.21%	0.058%
161	10.362	10.338	10.386	VV	4357	65805	0.78%	0.217%
162	10.405	10.386	10.423	VV	760	15613	0.19%	0.052%
163	10.427	10.423	10.439	VV	810	6407	0.08%	0.021%
164	10.456	10.439	10.476	VV	1045	17301	0.21%	0.057%
165	10.487	10.476	10.508	VV	726	10396	0.12%	0.034%
166	10.524	10.508	10.540	VV	658	10353	0.12%	0.034%
167	10.563	10.540	10.582	VV	722	14140	0.17%	0.047%
168	10.604	10.582	10.617	VV	688	11153	0.13%	0.037%
169	10.632	10.617	10.641	VV	850	9235	0.11%	0.031%
170	10.662	10.641	10.683	VV	1942	28829	0.34%	0.095%
171	10.697	10.683	10.737	VV	986	18005	0.21%	0.059%
172	10.743	10.737	10.753	VV	626	4612	0.05%	0.015%
173	10.759	10.753	10.808	VV	587	10394	0.12%	0.034%
174	10.815	10.808	10.828	VV	374	2867	0.03%	0.009%
175	10.878	10.828	10.910	VV	1250	26423	0.31%	0.087%
176	10.942	10.910	10.967	VV	2800	39825	0.47%	0.132%
177	10.988	10.967	11.015	VV	713	16097	0.19%	0.053%
178	11.032	11.015	11.056	VV	1031	18308	0.22%	0.060%
179	11.061	11.056	11.075	VV	476	3599	0.04%	0.012%
180	11.094	11.075	11.113	PV	324	5163	0.06%	0.017%
181	11.157	11.113	11.192	VV	604	14383	0.17%	0.048%
182	11.234	11.192	11.311	VV	532108	5680111	67.52%	18.770%
183	11.318	11.311	11.369	VV	2112	44912	0.53%	0.148%
184	11.374	11.369	11.385	VV	826	7175	0.09%	0.024%
185	11.408	11.385	11.437	VV	2450	39763	0.47%	0.131%
186	11.451	11.437	11.456	VV	667	6390	0.08%	0.021%
187	11.465	11.456	11.478	VV	594	6520	0.08%	0.022%
188	11.494	11.478	11.501	VV	604	6556	0.08%	0.022%
189	11.526	11.501	11.539	VV	814	15884	0.19%	0.052%
190	11.565	11.539	11.574	VV	1702	24621	0.29%	0.081%
191	11.590	11.574	11.624	VV	1934	43812	0.52%	0.145%
192	11.665	11.624	11.716	VV	11250	187589	2.23%	0.620%
193	11.735	11.716	11.743	VV	1418	16645	0.20%	0.055%
194	11.750	11.743	11.782	VV	1295	23374	0.28%	0.077%

rteres

195	11.815	11.782	11.838	VV	3219	65555	0.78%	0.217%
196	11.859	11.838	11.956	VV	42899	684388	8.14%	2.262%
197	11.982	11.956	11.990	VV	1747	33606	0.40%	0.111%
198	11.994	11.990	12.003	VV	1719	12981	0.15%	0.043%
199	12.010	12.003	12.043	VV	1692	36516	0.43%	0.121%
200	12.052	12.043	12.060	VV	1402	13166	0.16%	0.044%
201	12.102	12.060	12.138	VV	13234	202250	2.40%	0.668%
202	12.178	12.138	12.215	VV	2608	52585	0.63%	0.174%
203	12.240	12.215	12.266	VV	3236	45083	0.54%	0.149%
204	12.275	12.266	12.286	VV	609	6978	0.08%	0.023%
205	12.309	12.286	12.335	VV	2220	36796	0.44%	0.122%
206	12.342	12.335	12.352	VV	416	2965	0.04%	0.010%
207	12.372	12.352	12.399	VV	740	10709	0.13%	0.035%
208	12.416	12.399	12.453	VV	346	5610	0.07%	0.019%
209	12.502	12.453	12.518	PV	712	15513	0.18%	0.051%
210	12.524	12.518	12.577	VV	757	19417	0.23%	0.064%
211	12.594	12.577	12.620	VV	776	13989	0.17%	0.046%
212	12.636	12.620	12.643	VV	672	7474	0.09%	0.025%
213	12.676	12.643	12.719	VV	90361	1095873	13.03%	3.621%
214	12.733	12.719	12.797	VV	1387	41828	0.50%	0.138%
215	12.806	12.797	12.824	VV	602	10066	0.12%	0.033%
216	12.831	12.824	12.836	VV	895	5584	0.07%	0.018%
217	12.843	12.836	12.850	VV	1127	7904	0.09%	0.026%
218	12.857	12.850	12.880	VV	1096	17966	0.21%	0.059%
219	12.911	12.880	12.944	VV	7616	117708	1.40%	0.389%
220	12.952	12.944	12.975	VV	910	15230	0.18%	0.050%
221	12.987	12.975	13.017	VV	886	17437	0.21%	0.058%
222	13.039	13.017	13.070	VV	1273	29993	0.36%	0.099%
223	13.090	13.070	13.164	VV	10990	260872	3.10%	0.862%
224	13.169	13.164	13.216	VV	1635	38575	0.46%	0.127%
225	13.224	13.216	13.241	VV	1393	16893	0.20%	0.056%
226	13.246	13.241	13.273	VV	1137	19947	0.24%	0.066%
227	13.277	13.273	13.284	VV	1099	6692	0.08%	0.022%
228	13.301	13.284	13.323	VV	1199	23102	0.27%	0.076%
229	13.329	13.323	13.345	VV	1038	11226	0.13%	0.037%
230	13.390	13.345	13.412	VV	2728	63970	0.76%	0.211%
231	13.430	13.412	13.458	VV	3258	46335	0.55%	0.153%
232	13.465	13.458	13.471	VV	527	3689	0.04%	0.012%
233	13.483	13.471	13.518	VV	612	10373	0.12%	0.034%
234	13.521	13.518	13.549	VV	265	4103	0.05%	0.014%
235	13.557	13.549	13.567	VV	250	2398	0.03%	0.008%
236	13.569	13.567	13.588	VV	279	1736	0.02%	0.006%
237	13.595	13.588	13.610	VV	215	1773	0.02%	0.006%
238	13.621	13.610	13.632	PV	256	1556	0.02%	0.005%
239	13.663	13.632	13.682	VV	440	9761	0.12%	0.032%
240	13.685	13.682	13.701	VV	398	3727	0.04%	0.012%
241	13.712	13.701	13.719	VV	457	4040	0.05%	0.013%
242	13.724	13.719	13.728	VV	372	1779	0.02%	0.006%
243	13.733	13.728	13.747	VV	429	3654	0.04%	0.012%
244	13.763	13.747	13.768	VV	425	4139	0.05%	0.014%
245	13.774	13.768	13.808	VV	536	7851	0.09%	0.026%
246	13.823	13.814	13.828	VV	363	2450	0.03%	0.008%

rteres

247	13.880	13.828	13.935	VV	2525	63112	0.75%	0.209%
248	13.951	13.935	13.965	VV	673	9392	0.11%	0.031%
249	13.989	13.965	14.031	VV	810	17198	0.20%	0.057%
250	14.044	14.031	14.057	VV	538	6160	0.07%	0.020%
251	14.064	14.057	14.084	VV	615	8047	0.10%	0.027%
252	14.087	14.084	14.092	VV	561	2582	0.03%	0.009%
253	14.118	14.092	14.123	VV	968	12983	0.15%	0.043%
254	14.127	14.123	14.154	VV	880	13897	0.17%	0.046%
255	14.168	14.154	14.185	VV	819	12746	0.15%	0.042%
256	14.193	14.185	14.216	VV	883	11456	0.14%	0.038%
257	14.240	14.216	14.266	VV	879	19143	0.23%	0.063%
258	14.301	14.266	14.317	VV	1185	28032	0.33%	0.093%
259	14.335	14.317	14.374	VV	1159	24809	0.29%	0.082%
260	14.389	14.374	14.409	VV	616	9880	0.12%	0.033%
261	14.413	14.409	14.420	VV	211	1577	0.02%	0.005%
262	14.446	14.420	14.463	VV	446	8443	0.10%	0.028%
263	14.488	14.463	14.512	VV	2045	40075	0.48%	0.132%
264	14.530	14.512	14.572	VV	2969	50105	0.60%	0.166%
265	14.592	14.572	14.615	VV	961	12717	0.15%	0.042%
266	14.621	14.615	14.638	VV	197	2045	0.02%	0.007%
267	14.644	14.638	14.656	VV	215	1478	0.02%	0.005%
268	14.663	14.656	14.670	VV	231	1395	0.02%	0.005%
269	14.697	14.670	14.718	VV	1560	24085	0.29%	0.080%
270	14.734	14.718	14.788	VV	570	13622	0.16%	0.045%
271	14.793	14.788	14.797	VV	268	1072	0.01%	0.004%
272	14.806	14.797	14.820	VV	260	1916	0.02%	0.006%
273	14.838	14.820	14.843	VV	565	4711	0.06%	0.016%
274	14.850	14.843	14.872	VV	508	7481	0.09%	0.025%
275	14.875	14.872	14.887	VV	461	2802	0.03%	0.009%
276	14.918	14.887	14.990	VV	5259	140793	1.67%	0.465%
277	14.998	14.990	15.031	VV	1365	25985	0.31%	0.086%
278	15.072	15.031	15.127	VV	2110	60489	0.72%	0.200%
279	15.144	15.127	15.152	VV	514	5422	0.06%	0.018%
280	15.157	15.152	15.164	VV	412	2640	0.03%	0.009%
281	15.192	15.164	15.203	VV	795	14744	0.18%	0.049%
282	15.208	15.203	15.217	VV	698	4730	0.06%	0.016%
283	15.242	15.217	15.272	VV	1796	32318	0.38%	0.107%
284	15.283	15.272	15.296	VV	675	7619	0.09%	0.025%
285	15.302	15.296	15.308	VV	489	3457	0.04%	0.011%
286	15.345	15.308	15.356	VV	889	17265	0.21%	0.057%
287	15.364	15.356	15.370	VV	852	6994	0.08%	0.023%
288	15.372	15.370	15.395	VV	998	12773	0.15%	0.042%
289	15.398	15.395	15.433	VV	970	16519	0.20%	0.055%
290	15.437	15.433	15.455	VV	668	5931	0.07%	0.020%
291	15.463	15.455	15.473	VV	453	3817	0.05%	0.013%
292	15.507	15.473	15.524	VV	1462	24454	0.29%	0.081%
293	15.545	15.524	15.569	VV	2606	40692	0.48%	0.134%
294	15.589	15.569	15.612	VV	985	18103	0.22%	0.060%
295	15.623	15.612	15.655	VV	495	8022	0.10%	0.027%
296	15.665	15.655	15.675	VV	142	1299	0.02%	0.004%
297	15.695	15.675	15.700	VV	333	3483	0.04%	0.012%
298	15.705	15.700	15.720	VV	346	2583	0.03%	0.009%
299	15.730	15.720	15.735	VV	226	1690	0.02%	0.006%

rteres

300	15.750	15.735	15.764	VV	367	4000	0.05%	0.013%
301	15.771	15.764	15.776	VV	244	1431	0.02%	0.005%
302	15.786	15.776	15.801	VV	306	2679	0.03%	0.009%
303	15.827	15.812	15.837	PV	356	2964	0.04%	0.010%
304	15.844	15.837	15.864	VV	316	3449	0.04%	0.011%
305	15.873	15.864	15.883	VV	368	2422	0.03%	0.008%
306	15.937	15.883	15.957	VV	790	19616	0.23%	0.065%
307	15.961	15.957	15.970	VV	560	4172	0.05%	0.014%
308	15.984	15.970	16.005	VV	760	12972	0.15%	0.043%
309	16.024	16.005	16.058	VV	941	20200	0.24%	0.067%
310	16.068	16.058	16.073	VV	511	3808	0.05%	0.013%
311	16.086	16.073	16.092	VV	566	4991	0.06%	0.016%
312	16.125	16.092	16.157	VV	1111	25875	0.31%	0.086%
313	16.233	16.157	16.257	VV	887	32118	0.38%	0.106%
314	16.272	16.257	16.276	VV	633	6749	0.08%	0.022%
315	16.281	16.276	16.311	VV	739	12204	0.15%	0.040%
316	16.324	16.311	16.346	VV	810	11858	0.14%	0.039%
317	16.400	16.346	16.431	VV	1029	33488	0.40%	0.111%
318	16.457	16.431	16.471	VV	1508	25043	0.30%	0.083%
319	16.490	16.471	16.510	VV	2605	39456	0.47%	0.130%
320	16.533	16.510	16.567	VV	3540	56152	0.67%	0.186%
321	16.585	16.567	16.625	VV	619	14420	0.17%	0.048%
322	16.640	16.625	16.665	VV	372	6490	0.08%	0.021%
323	16.670	16.665	16.682	VV	310	2410	0.03%	0.008%
324	16.713	16.682	16.733	VV	303	5778	0.07%	0.019%
325	16.764	16.733	16.781	PV	305	5101	0.06%	0.017%
326	16.805	16.781	16.835	VV	601	10250	0.12%	0.034%
327	16.869	16.835	16.887	VV	399	6873	0.08%	0.023%
328	16.939	16.887	16.992	VV	1975	42756	0.51%	0.141%
329	17.010	16.992	17.027	VV	511	9225	0.11%	0.030%
330	17.044	17.027	17.082	VV	585	15555	0.18%	0.051%
331	17.088	17.082	17.105	VV	525	6128	0.07%	0.020%
332	17.135	17.105	17.155	VV	551	12169	0.14%	0.040%
333	17.169	17.155	17.207	VV	553	13550	0.16%	0.045%
334	17.216	17.207	17.236	VV	400	6394	0.08%	0.021%
335	17.346	17.236	17.353	VV	1523	41689	0.50%	0.138%
336	17.372	17.353	17.435	VV	3302	62985	0.75%	0.208%
337	17.468	17.435	17.541	VV	2151	50868	0.60%	0.168%
338	17.548	17.541	17.567	VV	429	4563	0.05%	0.015%
339	17.581	17.567	17.605	VV	607	7082	0.08%	0.023%
340	17.618	17.605	17.632	VV	298	2974	0.04%	0.010%
341	17.670	17.632	17.707	VV	688	15162	0.18%	0.050%
342	17.735	17.707	17.772	VV	3609	77224	0.92%	0.255%
343	17.792	17.772	17.853	VV	2755	61636	0.73%	0.204%
344	17.865	17.853	17.876	VV	479	5855	0.07%	0.019%
345	17.914	17.876	17.966	VV	770	25663	0.31%	0.085%
346	18.010	17.966	18.020	VV	437	10205	0.12%	0.034%
347	18.058	18.020	18.091	VV	599	16434	0.20%	0.054%
348	18.198	18.091	18.270	PV	3035	93113	1.11%	0.308%

Sum of corrected areas: 30261746

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068338.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 21:22
Operator : YP/AJ
Sample : Q1422-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-154-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:25:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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...	12.840	5478065	48.705 ug/ml
Spiked Amount 50.000		Recovery = 97.41%	
Target Compounds			

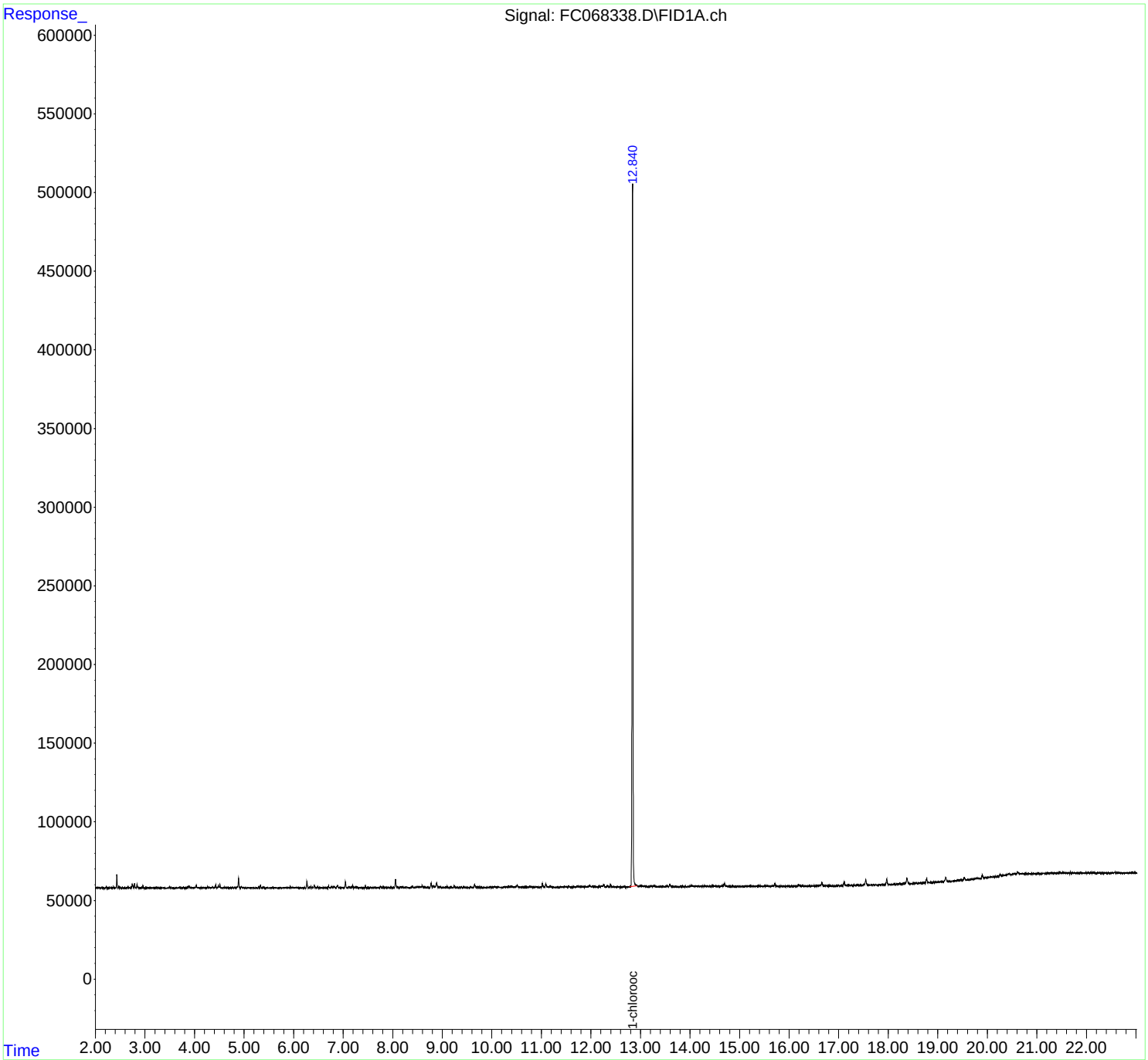
(f)=RT Delta > 1/2 Window (m)=manual int.

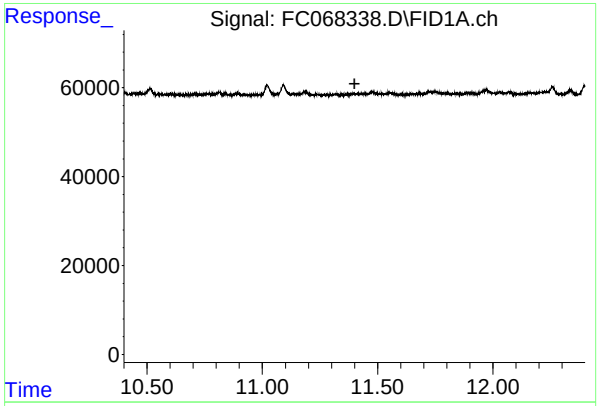
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068338.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 21:22
Operator : YP/AJ
Sample : Q1422-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-154-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:25:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

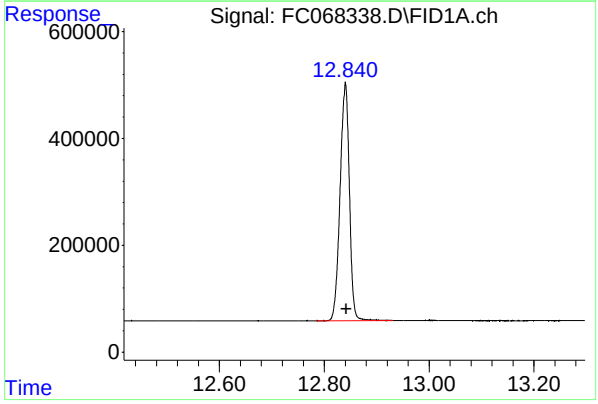




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-154-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.001 min
Response: 5478065
Conc: 48.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068338.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 21:22
Sample : Q1422-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.360	2.304	2.405	BV	640	9479	0.17%	0.082%
2	2.432	2.405	2.457	PV	8657	66662	1.20%	0.578%
3	2.473	2.457	2.548	VV	1073	13336	0.24%	0.116%
4	2.591	2.548	2.635	VV	285	7354	0.13%	0.064%
5	2.655	2.635	2.708	VV	772	11306	0.20%	0.098%
6	2.742	2.708	2.771	VV	2543	36596	0.66%	0.317%
7	2.789	2.771	2.817	VV	2919	28750	0.52%	0.249%
8	2.839	2.817	2.901	VV	2550	29784	0.54%	0.258%
9	2.916	2.901	2.944	VV	308	5458	0.10%	0.047%
10	2.961	2.944	3.014	VV	1801	20526	0.37%	0.178%
11	3.026	3.014	3.055	VV	203	3414	0.06%	0.030%
12	3.061	3.055	3.090	VV	144	1935	0.03%	0.017%
13	3.104	3.090	3.145	VV	152	2680	0.05%	0.023%
14	3.208	3.145	3.268	PV	484	10379	0.19%	0.090%
15	3.303	3.268	3.318	VV	190	3559	0.06%	0.031%
16	3.334	3.318	3.391	VV	141	4650	0.08%	0.040%
17	3.403	3.391	3.445	VV	123	2642	0.05%	0.023%
18	3.498	3.445	3.513	VV	908	10864	0.20%	0.094%
19	3.525	3.513	3.551	VV	416	4456	0.08%	0.039%
20	3.570	3.551	3.593	VV	326	3691	0.07%	0.032%
21	3.625	3.593	3.632	VV	123	2562	0.05%	0.022%
22	3.637	3.632	3.671	VV	127	1897	0.03%	0.016%
23	3.695	3.671	3.753	VV	376	10338	0.19%	0.090%
24	3.776	3.753	3.804	VV	422	6570	0.12%	0.057%
25	3.813	3.804	3.834	VV	128	1670	0.03%	0.014%
26	3.865	3.834	3.877	VV	802	9164	0.17%	0.079%
27	3.893	3.877	3.941	VV	1475	18727	0.34%	0.162%
28	3.964	3.941	3.994	VV	278	5530	0.10%	0.048%
29	4.038	3.994	4.064	VV	1355	24680	0.44%	0.214%
30	4.080	4.064	4.123	VV	250	6015	0.11%	0.052%
31	4.135	4.123	4.141	VV	208	1280	0.02%	0.011%
32	4.164	4.141	4.204	VV	204	6030	0.11%	0.052%
33	4.214	4.204	4.238	VV	238	2986	0.05%	0.026%
34	4.263	4.238	4.291	VV	856	14503	0.26%	0.126%
35	4.300	4.291	4.343	VV	536	9186	0.17%	0.080%
36	4.369	4.343	4.393	VV	644	11528	0.21%	0.100%

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37	4.428	4.393	4.448	VV	1850	24081	0.43%	0.209%
38	4.459	4.448	4.466	VV	387	3793	0.07%	0.033%
39	4.483	4.466	4.497	VV	1374	14750	0.27%	0.128%
40	4.513	4.497	4.594	VV	2547	31089	0.56%	0.270%
41	4.629	4.594	4.688	VV	317	8364	0.15%	0.073%
42	4.707	4.688	4.754	VV	258	5581	0.10%	0.048%
43	4.812	4.754	4.834	VV	403	7222	0.13%	0.063%
44	4.890	4.834	4.925	VV	6263	78011	1.41%	0.677%
45	4.946	4.925	4.966	VV	1228	14402	0.26%	0.125%
46	4.973	4.966	5.038	VV	354	6454	0.12%	0.056%
47	5.080	5.038	5.110	VV	310	6279	0.11%	0.054%
48	5.131	5.110	5.183	VV	227	6068	0.11%	0.053%
49	5.191	5.183	5.199	VV	170	1184	0.02%	0.010%
50	5.204	5.199	5.227	VV	133	1120	0.02%	0.010%
51	5.259	5.227	5.271	VV	222	3507	0.06%	0.030%
52	5.292	5.271	5.308	VV	672	8323	0.15%	0.072%
53	5.331	5.308	5.371	VV	1876	23964	0.43%	0.208%
54	5.387	5.371	5.434	VV	484	7416	0.13%	0.064%
55	5.474	5.434	5.498	VV	393	7331	0.13%	0.064%
56	5.506	5.498	5.518	VV	110	800	0.01%	0.007%
57	5.531	5.518	5.542	PV	148	1280	0.02%	0.011%
58	5.584	5.542	5.604	VV	306	6403	0.12%	0.056%
59	5.621	5.604	5.631	VV	183	2322	0.04%	0.020%
60	5.663	5.631	5.708	VV	205	5676	0.10%	0.049%
61	5.741	5.708	5.765	VV	215	3365	0.06%	0.029%
62	5.798	5.765	5.824	VV	266	4610	0.08%	0.040%
63	5.839	5.824	5.868	VV	387	6903	0.12%	0.060%
64	5.886	5.868	5.908	VV	429	7282	0.13%	0.063%
65	5.929	5.908	5.958	VV	927	12369	0.22%	0.107%
66	5.989	5.958	6.028	VV	418	9232	0.17%	0.080%
67	6.060	6.028	6.099	VV	494	11826	0.21%	0.103%
68	6.107	6.099	6.125	VV	163	1724	0.03%	0.015%
69	6.154	6.125	6.215	VV	180	5914	0.11%	0.051%
70	6.269	6.215	6.299	VV	4236	51583	0.93%	0.447%
71	6.310	6.299	6.330	VV	428	5900	0.11%	0.051%
72	6.350	6.330	6.370	VV	992	12809	0.23%	0.111%
73	6.386	6.370	6.398	VV	551	6443	0.12%	0.056%
74	6.416	6.398	6.438	VV	1521	18242	0.33%	0.158%
75	6.451	6.438	6.470	VV	505	6594	0.12%	0.057%
76	6.488	6.470	6.521	VV	855	10362	0.19%	0.090%
77	6.536	6.521	6.572	VV	194	4092	0.07%	0.035%
78	6.583	6.572	6.613	VV	171	2931	0.05%	0.025%
79	6.634	6.613	6.644	VV	205	2965	0.05%	0.026%
80	6.659	6.644	6.686	VV	229	3468	0.06%	0.030%
81	6.707	6.686	6.737	VV	973	12861	0.23%	0.112%
82	6.760	6.737	6.793	VV	1021	20051	0.36%	0.174%
83	6.809	6.793	6.855	VV	1042	22745	0.41%	0.197%
84	6.886	6.855	6.914	VV	1706	26269	0.47%	0.228%
85	6.922	6.914	6.948	VV	298	4186	0.08%	0.036%
86	6.966	6.948	6.977	VV	350	4200	0.08%	0.036%
87	6.991	6.977	7.021	VV	456	6031	0.11%	0.052%
88	7.047	7.021	7.074	VV	4069	44843	0.81%	0.389%
89	7.121	7.074	7.141	VV	517	13666	0.25%	0.119%

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90	7.154	7.141	7.167	VV	712	7300	0.13%	0.063%
91	7.189	7.167	7.213	VV	1755	25213	0.45%	0.219%
92	7.225	7.213	7.234	VV	422	4719	0.09%	0.041%
93	7.249	7.234	7.265	VV	595	8652	0.16%	0.075%
94	7.279	7.265	7.311	VV	729	10283	0.19%	0.089%
95	7.356	7.311	7.376	VV	278	7188	0.13%	0.062%
96	7.398	7.376	7.421	VV	218	4349	0.08%	0.038%
97	7.448	7.421	7.488	VV	1457	17762	0.32%	0.154%
98	7.497	7.488	7.508	VV	168	1575	0.03%	0.014%
99	7.531	7.508	7.575	VV	275	7093	0.13%	0.062%
100	7.611	7.575	7.625	VV	439	6984	0.13%	0.061%
101	7.642	7.625	7.690	VV	363	8337	0.15%	0.072%
102	7.708	7.690	7.726	VV	398	4683	0.08%	0.041%
103	7.753	7.726	7.787	PV	1041	14610	0.26%	0.127%
104	7.808	7.787	7.828	VV	807	10246	0.18%	0.089%
105	7.846	7.828	7.860	VV	335	4980	0.09%	0.043%
106	7.877	7.860	7.898	VV	462	6272	0.11%	0.054%
107	7.909	7.898	7.931	VV	236	3643	0.07%	0.032%
108	7.965	7.931	8.031	VV	605	14430	0.26%	0.125%
109	8.057	8.031	8.130	VV	5520	79629	1.44%	0.691%
110	8.169	8.130	8.191	VV	714	18698	0.34%	0.162%
111	8.202	8.191	8.228	VV	659	9707	0.17%	0.084%
112	8.248	8.228	8.271	VV	512	8158	0.15%	0.071%
113	8.288	8.271	8.309	VV	787	9307	0.17%	0.081%
114	8.317	8.309	8.327	VV	115	1022	0.02%	0.009%
115	8.404	8.327	8.425	VV	892	25775	0.46%	0.224%
116	8.436	8.425	8.459	VV	437	8153	0.15%	0.071%
117	8.514	8.459	8.531	VV	779	22182	0.40%	0.192%
118	8.542	8.531	8.558	VV	661	8818	0.16%	0.076%
119	8.594	8.558	8.638	VV	1350	33504	0.60%	0.291%
120	8.655	8.638	8.683	VV	525	7613	0.14%	0.066%
121	8.708	8.683	8.724	VV	517	7053	0.13%	0.061%
122	8.775	8.724	8.798	VV	3109	42673	0.77%	0.370%
123	8.811	8.798	8.858	VV	1260	28747	0.52%	0.249%
124	8.889	8.858	8.940	VV	3180	60425	1.09%	0.524%
125	8.961	8.940	8.991	VV	726	11000	0.20%	0.095%
126	9.010	8.991	9.043	VV	498	7939	0.14%	0.069%
127	9.062	9.043	9.074	VV	234	3562	0.06%	0.031%
128	9.100	9.074	9.122	VV	417	7540	0.14%	0.065%
129	9.131	9.122	9.140	VV	199	1973	0.04%	0.017%
130	9.161	9.140	9.216	VV	488	14371	0.26%	0.125%
131	9.239	9.216	9.277	VV	1135	18185	0.33%	0.158%
132	9.299	9.277	9.324	VV	291	6141	0.11%	0.053%
133	9.334	9.324	9.358	VV	272	3555	0.06%	0.031%
134	9.380	9.358	9.407	VV	547	8898	0.16%	0.077%
135	9.433	9.407	9.485	VV	530	12019	0.22%	0.104%
136	9.491	9.485	9.509	VV	221	2075	0.04%	0.018%
137	9.524	9.509	9.548	VV	202	2119	0.04%	0.018%
138	9.576	9.548	9.624	VV	430	10136	0.18%	0.088%
139	9.653	9.624	9.703	VV	2245	34219	0.62%	0.297%
140	9.722	9.703	9.785	VV	386	13951	0.25%	0.121%
141	9.797	9.785	9.811	VV	256	3386	0.06%	0.029%

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142	9.824	9.811	9.884	VV	216	4859	0.09%	0.042%
143	9.925	9.884	9.944	VV	260	6467	0.12%	0.056%
144	9.968	9.944	9.991	VV	486	9241	0.17%	0.080%
145	10.045	9.991	10.061	VV	583	15152	0.27%	0.131%
146	10.079	10.061	10.104	VV	507	9343	0.17%	0.081%
147	10.127	10.104	10.194	VV	409	14402	0.26%	0.125%
148	10.210	10.194	10.224	VV	235	3393	0.06%	0.029%
149	10.249	10.224	10.266	VV	497	8810	0.16%	0.076%
150	10.280	10.266	10.301	VV	457	7329	0.13%	0.064%
151	10.332	10.301	10.354	VV	584	13707	0.25%	0.119%
152	10.391	10.354	10.421	VV	944	23536	0.42%	0.204%
153	10.443	10.421	10.454	VV	572	8400	0.15%	0.073%
154	10.472	10.454	10.487	VV	557	9523	0.17%	0.083%
155	10.514	10.487	10.555	VV	1601	30475	0.55%	0.264%
156	10.577	10.555	10.592	VV	338	6571	0.12%	0.057%
157	10.607	10.592	10.659	VV	537	9729	0.18%	0.084%
158	10.710	10.659	10.736	VV	341	11383	0.21%	0.099%
159	10.812	10.736	10.828	VV	718	21257	0.38%	0.184%
160	10.841	10.828	10.861	VV	492	5759	0.10%	0.050%
161	10.892	10.861	10.934	VV	381	10242	0.18%	0.089%
162	10.960	10.934	10.972	VV	204	2754	0.05%	0.024%
163	11.021	10.972	11.055	VV	2404	39555	0.71%	0.343%
164	11.092	11.055	11.123	VV	2357	38944	0.70%	0.338%
165	11.140	11.123	11.154	VV	344	5748	0.10%	0.050%
166	11.184	11.154	11.221	VV	850	17103	0.31%	0.148%
167	11.241	11.221	11.255	VV	178	2630	0.05%	0.023%
168	11.279	11.255	11.288	VV	136	1827	0.03%	0.016%
169	11.296	11.288	11.300	VV	166	803	0.01%	0.007%
170	11.314	11.300	11.351	VV	182	3967	0.07%	0.034%
171	11.442	11.351	11.454	VV	405	17813	0.32%	0.155%
172	11.476	11.454	11.513	VV	680	14847	0.27%	0.129%
173	11.551	11.513	11.588	VV	579	15928	0.29%	0.138%
174	11.602	11.588	11.618	VV	190	2699	0.05%	0.023%
175	11.628	11.618	11.638	VV	225	1915	0.03%	0.017%
176	11.723	11.638	11.734	VV	721	21299	0.38%	0.185%
177	11.748	11.734	11.776	VV	795	15119	0.27%	0.131%
178	11.799	11.776	11.823	VV	445	10992	0.20%	0.095%
179	11.835	11.823	11.871	VV	375	8487	0.15%	0.074%
180	11.894	11.871	11.930	VV	521	13981	0.25%	0.121%
181	11.971	11.930	12.014	VV	1177	32514	0.59%	0.282%
182	12.029	12.014	12.049	VV	674	10320	0.19%	0.090%
183	12.068	12.049	12.101	VV	694	12912	0.23%	0.112%
184	12.163	12.101	12.185	VV	497	16175	0.29%	0.140%
185	12.258	12.185	12.284	VV	1891	45263	0.82%	0.393%
186	12.295	12.284	12.307	VV	235	2637	0.05%	0.023%
187	12.335	12.307	12.366	VV	1076	16935	0.31%	0.147%
188	12.396	12.366	12.418	VV	1986	26022	0.47%	0.226%
189	12.428	12.418	12.445	VV	313	4693	0.08%	0.041%
190	12.454	12.445	12.471	VV	311	3829	0.07%	0.033%
191	12.481	12.471	12.498	VV	190	2456	0.04%	0.021%
192	12.513	12.498	12.551	VV	262	6379	0.11%	0.055%
193	12.560	12.551	12.596	VV	130	1905	0.03%	0.017%
194	12.675	12.621	12.711	PV	354	9220	0.17%	0.080%

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195	12.719	12.711	12.738	VV	243	2430	0.04%	0.021%
196	12.769	12.738	12.784	VV	294	5417	0.10%	0.047%
197	12.840	12.784	12.981	VV	447510	5548430	100.00%	48.129%
198	13.007	12.981	13.040	VV	1027	26791	0.48%	0.232%
199	13.063	13.040	13.099	VV	648	19567	0.35%	0.170%
200	13.120	13.099	13.177	VV	457	17720	0.32%	0.154%
201	13.198	13.177	13.240	VV	548	16419	0.30%	0.142%
202	13.292	13.240	13.330	VV	758	26184	0.47%	0.227%
203	13.344	13.330	13.371	VV	362	6796	0.12%	0.059%
204	13.393	13.371	13.414	VV	366	7480	0.13%	0.065%
205	13.460	13.414	13.487	VV	474	15042	0.27%	0.130%
206	13.498	13.487	13.506	VV	337	2991	0.05%	0.026%
207	13.540	13.506	13.564	VV	798	16559	0.30%	0.144%
208	13.592	13.564	13.633	VV	1873	31153	0.56%	0.270%
209	13.646	13.633	13.718	VV	345	10664	0.19%	0.093%
210	13.721	13.718	13.753	VV	199	2370	0.04%	0.021%
211	13.766	13.753	13.778	VV	204	1784	0.03%	0.015%
212	13.783	13.778	13.786	VV	133	566	0.01%	0.005%
213	13.811	13.786	13.906	VV	345	18648	0.34%	0.162%
214	13.927	13.906	13.939	VV	287	4914	0.09%	0.043%
215	14.030	13.939	14.068	VV	1141	34553	0.62%	0.300%
216	14.078	14.068	14.098	VV	434	6472	0.12%	0.056%
217	14.109	14.098	14.132	VV	409	6589	0.12%	0.057%
218	14.154	14.132	14.191	VV	602	14142	0.25%	0.123%
219	14.245	14.191	14.268	VV	383	15858	0.29%	0.138%
220	14.299	14.268	14.385	VV	515	27461	0.49%	0.238%
221	14.402	14.385	14.424	VV	464	8789	0.16%	0.076%
222	14.466	14.424	14.534	VV	548	26716	0.48%	0.232%
223	14.541	14.534	14.581	VV	330	7525	0.14%	0.065%
224	14.651	14.581	14.670	VV	801	19450	0.35%	0.169%
225	14.694	14.670	14.733	VV	1767	33911	0.61%	0.294%
226	14.745	14.733	14.799	VV	336	8320	0.15%	0.072%
227	14.804	14.799	14.839	VV	182	3103	0.06%	0.027%
228	14.864	14.839	14.988	VV	427	17093	0.31%	0.148%
229	15.004	14.988	15.051	VV	187	3839	0.07%	0.033%
230	15.058	15.051	15.067	VV	152	1077	0.02%	0.009%
231	15.115	15.067	15.155	VV	357	10544	0.19%	0.091%
232	15.175	15.155	15.185	VV	187	3149	0.06%	0.027%
233	15.212	15.185	15.293	VV	712	18090	0.33%	0.157%
234	15.332	15.293	15.414	VV	241	13601	0.25%	0.118%
235	15.420	15.414	15.472	VV	265	6138	0.11%	0.053%
236	15.534	15.472	15.647	VV	381	25057	0.45%	0.217%
237	15.713	15.647	15.834	VV	1811	45285	0.82%	0.393%
238	15.858	15.834	15.884	VV	142	3028	0.05%	0.026%
239	15.903	15.884	15.931	VV	131	2760	0.05%	0.024%
240	15.954	15.931	15.974	VV	151	2015	0.04%	0.017%
241	16.033	15.974	16.128	VV	194	10607	0.19%	0.092%
242	16.195	16.128	16.313	PV	1054	31438	0.57%	0.273%
243	16.362	16.313	16.421	VV	263	12170	0.22%	0.106%
244	16.430	16.421	16.464	VV	199	4025	0.07%	0.035%
245	16.493	16.464	16.521	VV	240	6404	0.12%	0.056%
246	16.555	16.521	16.598	VV	359	12265	0.22%	0.106%

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247	16.661	16.598	16.726	VV	2486	54266	0.98%	0.471%
248	16.756	16.726	16.804	VV	189	8681	0.16%	0.075%
249	16.854	16.804	16.907	VV	202	7031	0.13%	0.061%
250	16.952	16.907	17.054	PV	213	11961	0.22%	0.104%
251	17.111	17.054	17.181	VV	2506	46214	0.83%	0.401%
252	17.216	17.181	17.279	VV	315	11389	0.21%	0.099%
253	17.308	17.279	17.338	VV	244	5306	0.10%	0.046%
254	17.393	17.338	17.421	VV	274	8454	0.15%	0.073%
255	17.546	17.421	17.644	VV	3655	77641	1.40%	0.673%
256	17.707	17.644	17.738	VV	244	9430	0.17%	0.082%
257	17.754	17.738	17.776	VV	107	2324	0.04%	0.020%
258	17.827	17.776	17.877	PV	275	8656	0.16%	0.075%
259	17.969	17.877	18.012	VV	3461	59055	1.06%	0.512%
260	18.036	18.012	18.072	VV	189	4587	0.08%	0.040%
261	18.233	18.072	18.318	PV	304	13644	0.25%	0.118%
262	18.377	18.318	18.478	VV	3754	74000	1.33%	0.642%
263	18.637	18.478	18.664	PV	218	9476	0.17%	0.082%
264	18.775	18.664	18.834	PV	2595	44029	0.79%	0.382%
265	18.956	18.834	18.988	VV	265	10126	0.18%	0.088%
266	19.026	18.988	19.046	VV	330	5795	0.10%	0.050%
267	19.073	19.046	19.087	VV	225	3776	0.07%	0.033%
268	19.161	19.087	19.227	VV	2940	62738	1.13%	0.544%
269	19.468	19.227	19.504	VV	515	52689	0.95%	0.457%
270	19.536	19.504	19.598	VV	2097	49356	0.89%	0.428%
271	19.801	19.598	19.829	VV	1184	100313	1.81%	0.870%
272	19.900	19.829	19.941	VV	2868	97891	1.76%	0.849%
273	19.964	19.941	19.988	VV	1382	35573	0.64%	0.309%
274	20.256	19.988	20.291	VV	2657	278828	5.03%	2.419%
275	20.433	20.291	20.498	VV	2738	275790	4.97%	2.392%
276	20.612	20.498	20.668	VV	3529	270865	4.88%	2.350%
277	20.699	20.668	20.761	VV	2390	129249	2.33%	1.121%
278	20.781	20.761	20.827	VV	2250	85066	1.53%	0.738%
279	20.845	20.827	20.881	VV	2076	64468	1.16%	0.559%
280	20.933	20.881	20.973	VV	1996	107181	1.93%	0.930%
281	21.016	20.973	21.051	VV	2046	87438	1.58%	0.758%
282	21.069	21.051	21.091	VV	1727	40899	0.74%	0.355%
283	21.225	21.091	21.254	VV	1711	165520	2.98%	1.436%
284	21.297	21.254	21.388	VV	1694	124229	2.24%	1.078%
285	21.464	21.388	21.508	VV	1921	113542	2.05%	0.985%
286	21.537	21.508	21.614	VV	1596	85039	1.53%	0.738%
287	21.638	21.614	21.684	VV	1123	44306	0.80%	0.384%
288	21.703	21.684	21.768	VV	1044	48220	0.87%	0.418%
289	21.786	21.768	21.861	VV	893	42893	0.77%	0.372%
290	21.885	21.861	21.911	VV	688	19094	0.34%	0.166%
291	21.920	21.911	21.944	VV	627	11229	0.20%	0.097%
292	21.971	21.944	21.998	VV	562	17072	0.31%	0.148%
293	22.009	21.998	22.191	VV	506	32315	0.58%	0.280%

Sum of corrected areas: 11528220

Aliphatic EPH 021125.M Sat Mar 01 01:34:14 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049146.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 21:22
Operator : YP/AJ
Sample : Q1422-02
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-154-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:22:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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...	7.352	9010697	62.964 ug/ml
Spiked Amount 50.000		Recovery =	125.93%
6) S 2-Flurobiphenyl (SURR)	8.201	5866189	66.728 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	133.46%#
11) S ortho-Terphenyl (SURR)	11.235	7059553	43.638 ug/ml
Spiked Amount 50.000		Recovery =	87.28%
Target Compounds			

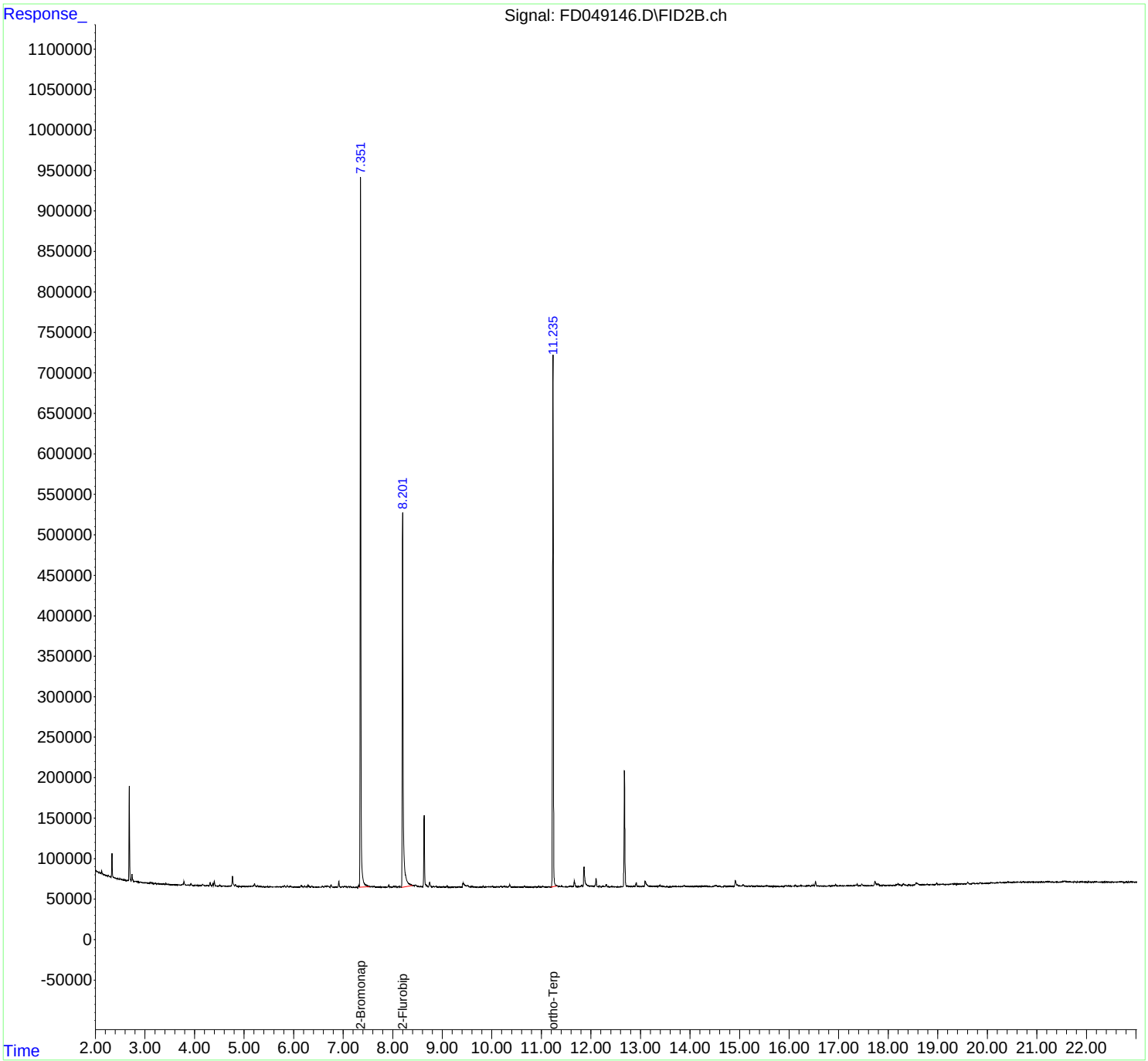
(f)=RT Delta > 1/2 Window (m)=manual int.

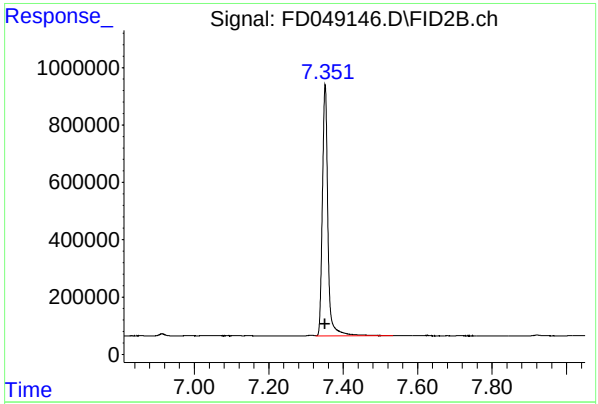
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049146.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 21:22
Operator : YP/AJ
Sample : Q1422-02
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-154-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:22:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

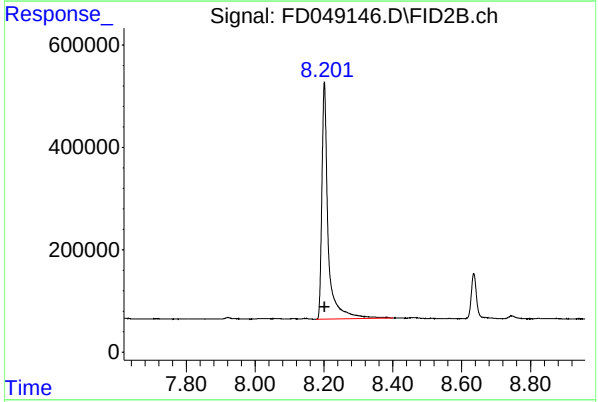




#4 2-Bromonaphthalene (SURR)

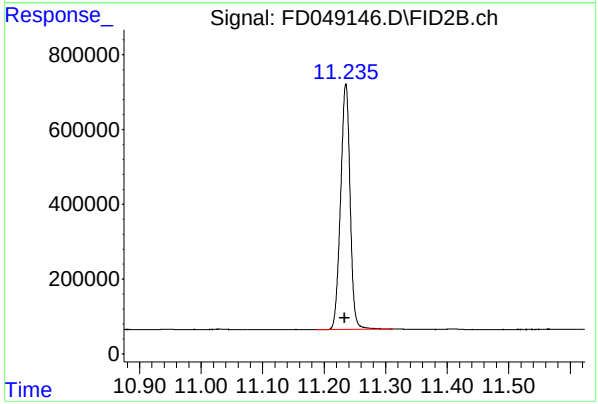
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 9010697
Conc: 62.96 ug/ml

Instrument :
FID_D
ClientSampleId :
B-154-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: -0.001 min
Response: 5866189
Conc: 66.73 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 7059553
Conc: 43.64 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049146.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 21:22
Sample : Q1422-02
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.053	4.042	4.104	BV	195	4216	0.05%	0.013%
2	4.133	4.124	4.145	PV	202	1187	0.01%	0.004%
3	4.162	4.145	4.217	VV	1826	31155	0.34%	0.099%
4	4.223	4.217	4.240	VV	225	1908	0.02%	0.006%
5	4.261	4.240	4.291	VV	926	12446	0.14%	0.039%
6	4.315	4.291	4.346	VV	4403	50902	0.56%	0.161%
7	4.370	4.346	4.383	VV	3468	37956	0.42%	0.120%
8	4.399	4.383	4.473	VV	6235	81647	0.90%	0.259%
9	4.511	4.473	4.555	PV	1146	24544	0.27%	0.078%
10	4.581	4.555	4.597	VV	713	9709	0.11%	0.031%
11	4.601	4.597	4.631	VV	510	5941	0.07%	0.019%
12	4.634	4.631	4.640	VV	314	1146	0.01%	0.004%
13	4.645	4.640	4.660	VV	363	1722	0.02%	0.005%
14	4.689	4.660	4.703	PV	676	9296	0.10%	0.029%
15	4.712	4.703	4.724	VV	451	4600	0.05%	0.015%
16	4.731	4.724	4.738	VV	517	3894	0.04%	0.012%
17	4.767	4.738	4.810	VV	12820	176254	1.94%	0.559%
18	4.826	4.810	4.851	VV	2607	33772	0.37%	0.107%
19	4.858	4.851	4.878	VV	435	5055	0.06%	0.016%
20	4.882	4.878	4.889	VV	209	1170	0.01%	0.004%
21	4.894	4.889	4.920	VV	407	3277	0.04%	0.010%
22	4.936	4.930	4.945	VV	256	1529	0.02%	0.005%
23	4.968	4.945	4.993	VV	635	10417	0.11%	0.033%
24	5.006	4.993	5.023	VV	320	3667	0.04%	0.012%
25	5.029	5.023	5.034	VV	259	1195	0.01%	0.004%
26	5.045	5.034	5.055	VV	277	2869	0.03%	0.009%
27	5.067	5.055	5.077	VV	293	3071	0.03%	0.010%
28	5.101	5.077	5.121	VV	780	13935	0.15%	0.044%
29	5.140	5.121	5.164	VV	976	18467	0.20%	0.059%
30	5.187	5.164	5.199	VV	1585	22588	0.25%	0.072%
31	5.212	5.199	5.255	VV	3839	53287	0.59%	0.169%
32	5.269	5.255	5.295	VV	1175	17338	0.19%	0.055%
33	5.299	5.295	5.323	VV	540	6369	0.07%	0.020%
34	5.337	5.323	5.341	VV	532	4448	0.05%	0.014%
35	5.350	5.341	5.371	VV	551	6642	0.07%	0.021%
36	5.376	5.371	5.398	VV	255	2774	0.03%	0.009%

rteres

37	5.428	5.398	5.452	VV	274	4424	0.05%	0.014%
38	5.466	5.452	5.490	VV	423	5210	0.06%	0.017%
39	5.495	5.490	5.505	VV	246	1289	0.01%	0.004%
40	5.516	5.505	5.529	VV	347	2244	0.02%	0.007%
41	5.537	5.529	5.558	VV	202	1620	0.02%	0.005%
42	5.588	5.574	5.608	PV	166	2131	0.02%	0.007%
43	5.621	5.608	5.625	VV	235	1162	0.01%	0.004%
44	5.648	5.625	5.663	VV	463	4836	0.05%	0.015%
45	5.688	5.663	5.710	VV	389	5238	0.06%	0.017%
46	5.729	5.710	5.749	VV	520	6595	0.07%	0.021%
47	5.773	5.749	5.796	VV	927	13519	0.15%	0.043%
48	5.815	5.796	5.854	VV	1962	30243	0.33%	0.096%
49	5.870	5.854	5.895	VV	1895	21397	0.24%	0.068%
50	5.937	5.895	5.979	VV	1060	24310	0.27%	0.077%
51	5.986	5.979	5.993	VV	206	1178	0.01%	0.004%
52	5.997	5.993	6.009	VV	218	1376	0.02%	0.004%
53	6.010	6.009	6.030	VV	240	1612	0.02%	0.005%
54	6.046	6.039	6.053	VV	172	1197	0.01%	0.004%
55	6.059	6.053	6.081	VV	196	2379	0.03%	0.008%
56	6.154	6.098	6.198	VV	2294	42708	0.47%	0.135%
57	6.222	6.198	6.245	VV	1819	22396	0.25%	0.071%
58	6.265	6.245	6.274	VV	1073	10802	0.12%	0.034%
59	6.293	6.274	6.349	VV	3029	49581	0.55%	0.157%
60	6.368	6.349	6.392	VV	1720	22360	0.25%	0.071%
61	6.398	6.392	6.404	VV	266	1048	0.01%	0.003%
62	6.418	6.404	6.426	VV	254	2396	0.03%	0.008%
63	6.443	6.435	6.475	VV	358	4708	0.05%	0.015%
64	6.484	6.475	6.492	VV	216	1646	0.02%	0.005%
65	6.506	6.492	6.517	VV	444	3523	0.04%	0.011%
66	6.526	6.517	6.545	VV	241	2834	0.03%	0.009%
67	6.549	6.545	6.561	VV	212	1167	0.01%	0.004%
68	6.580	6.561	6.614	PV	1786	22497	0.25%	0.071%
69	6.632	6.614	6.655	VV	1570	27482	0.30%	0.087%
70	6.679	6.655	6.692	VV	2077	31356	0.34%	0.099%
71	6.704	6.692	6.730	VV	1490	20789	0.23%	0.066%
72	6.757	6.730	6.815	VV	3342	50122	0.55%	0.159%
73	6.831	6.815	6.844	VV	556	6701	0.07%	0.021%
74	6.857	6.844	6.882	VV	875	10477	0.12%	0.033%
75	6.913	6.882	6.947	VV	7503	85348	0.94%	0.271%
76	6.951	6.947	6.960	VV	356	2019	0.02%	0.006%
77	6.990	6.960	7.010	VV	1193	22894	0.25%	0.073%
78	7.024	7.010	7.039	VV	1384	16919	0.19%	0.054%
79	7.061	7.039	7.081	VV	1487	25343	0.28%	0.080%
80	7.088	7.081	7.099	VV	757	6894	0.08%	0.022%
81	7.114	7.099	7.131	VV	1196	16538	0.18%	0.052%
82	7.146	7.131	7.170	VV	1514	19313	0.21%	0.061%
83	7.177	7.170	7.202	VV	400	5248	0.06%	0.017%
84	7.209	7.202	7.237	VV	394	3814	0.04%	0.012%
85	7.258	7.237	7.264	PV	472	4467	0.05%	0.014%
86	7.270	7.264	7.289	VV	416	3887	0.04%	0.012%
87	7.314	7.289	7.327	VV	2596	29085	0.32%	0.092%
88	7.352	7.327	7.534	VV	877854	9096036	100.00%	28.844%
89	7.538	7.534	7.561	VV	1172	17174	0.19%	0.054%

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90	7.581	7.561	7.607	VV	1195	27337	0.30%	0.087%
91	7.624	7.607	7.668	VV	1795	34491	0.38%	0.109%
92	7.679	7.668	7.694	VV	705	8696	0.10%	0.028%
93	7.715	7.694	7.733	VV	845	15671	0.17%	0.050%
94	7.737	7.733	7.751	VV	607	6199	0.07%	0.020%
95	7.755	7.751	7.763	VV	522	2779	0.03%	0.009%
96	7.772	7.763	7.776	VV	332	2287	0.03%	0.007%
97	7.783	7.776	7.789	VV	509	2957	0.03%	0.009%
98	7.815	7.789	7.827	VV	554	9074	0.10%	0.029%
99	7.832	7.827	7.849	VV	484	4639	0.05%	0.015%
100	7.869	7.849	7.883	VV	591	8437	0.09%	0.027%
101	7.921	7.883	7.959	VV	3324	53786	0.59%	0.171%
102	7.966	7.959	7.990	VV	640	8301	0.09%	0.026%
103	8.011	7.990	8.015	VV	1190	10046	0.11%	0.032%
104	8.019	8.015	8.052	VV	1237	22547	0.25%	0.071%
105	8.067	8.052	8.092	VV	1273	19542	0.21%	0.062%
106	8.113	8.092	8.134	VV	1170	18101	0.20%	0.057%
107	8.146	8.134	8.174	VV	1352	16478	0.18%	0.052%
108	8.201	8.174	8.400	VV	463600	6028512	66.28%	19.117%
109	8.407	8.400	8.420	VV	2640	29359	0.32%	0.093%
110	8.425	8.420	8.439	VV	2514	25438	0.28%	0.081%
111	8.458	8.439	8.507	VV	3188	88439	0.97%	0.280%
112	8.513	8.507	8.549	VV	1805	30375	0.33%	0.096%
113	8.565	8.549	8.594	VV	1423	29696	0.33%	0.094%
114	8.635	8.594	8.684	VV	89196	984307	10.82%	3.121%
115	8.688	8.684	8.719	VV	2216	30151	0.33%	0.096%
116	8.746	8.719	8.799	VV	6489	120322	1.32%	0.382%
117	8.803	8.799	8.808	VV	873	4339	0.05%	0.014%
118	8.824	8.808	8.840	VV	1554	22132	0.24%	0.070%
119	8.873	8.840	8.900	VV	1334	34211	0.38%	0.108%
120	8.906	8.900	8.914	VV	720	5013	0.06%	0.016%
121	8.933	8.914	8.962	VV	793	17946	0.20%	0.057%
122	8.967	8.962	8.986	VV	535	6720	0.07%	0.021%
123	9.018	8.986	9.032	VV	1205	20495	0.23%	0.065%
124	9.037	9.032	9.068	VV	904	13869	0.15%	0.044%
125	9.097	9.068	9.122	VV	1826	30143	0.33%	0.096%
126	9.129	9.122	9.147	VV	311	3591	0.04%	0.011%
127	9.150	9.147	9.157	VV	277	1265	0.01%	0.004%
128	9.174	9.157	9.188	VV	509	6589	0.07%	0.021%
129	9.193	9.188	9.198	VV	478	2381	0.03%	0.008%
130	9.204	9.198	9.216	VV	541	3363	0.04%	0.011%
131	9.243	9.216	9.271	VV	1028	15726	0.17%	0.050%
132	9.300	9.271	9.307	PV	521	6741	0.07%	0.021%
133	9.308	9.307	9.329	VV	515	5411	0.06%	0.017%
134	9.341	9.329	9.357	VV	799	8859	0.10%	0.028%
135	9.367	9.357	9.395	VV	575	10181	0.11%	0.032%
136	9.419	9.395	9.499	VV	4945	173108	1.90%	0.549%
137	9.514	9.499	9.562	VV	2745	57920	0.64%	0.184%
138	9.595	9.562	9.609	VV	1465	28974	0.32%	0.092%
139	9.611	9.609	9.615	VV	969	3892	0.04%	0.012%
140	9.619	9.615	9.640	VV	1025	10555	0.12%	0.033%
141	9.645	9.640	9.672	VV	584	10157	0.11%	0.032%

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142	9.678	9.672	9.698	VV	470	6358	0.07%	0.020%
143	9.709	9.698	9.737	VV	390	6190	0.07%	0.020%
144	9.755	9.737	9.772	VV	545	7532	0.08%	0.024%
145	9.786	9.772	9.796	VV	762	7721	0.08%	0.024%
146	9.823	9.796	9.849	VV	1293	23881	0.26%	0.076%
147	9.860	9.849	9.865	VV	648	5003	0.06%	0.016%
148	9.877	9.865	9.888	VV	675	8127	0.09%	0.026%
149	9.905	9.888	9.919	VV	900	13216	0.15%	0.042%
150	9.934	9.919	9.939	VV	793	7412	0.08%	0.024%
151	9.942	9.939	9.959	VV	654	7159	0.08%	0.023%
152	9.972	9.959	9.976	VV	836	6468	0.07%	0.021%
153	9.983	9.976	9.997	VV	733	7990	0.09%	0.025%
154	10.012	9.997	10.055	VV	1654	24019	0.26%	0.076%
155	10.065	10.055	10.076	VV	400	3652	0.04%	0.012%
156	10.099	10.076	10.120	VV	996	17852	0.20%	0.057%
157	10.125	10.120	10.157	VV	760	12487	0.14%	0.040%
158	10.184	10.157	10.211	VV	1522	28121	0.31%	0.089%
159	10.217	10.211	10.226	VV	794	6236	0.07%	0.020%
160	10.254	10.226	10.280	VV	1398	30658	0.34%	0.097%
161	10.292	10.280	10.308	VV	1037	12111	0.13%	0.038%
162	10.322	10.308	10.335	VV	841	10794	0.12%	0.034%
163	10.362	10.335	10.391	VV	3147	48067	0.53%	0.152%
164	10.395	10.391	10.399	VV	496	1811	0.02%	0.006%
165	10.404	10.399	10.424	VV	512	5843	0.06%	0.019%
166	10.429	10.424	10.438	VV	445	2932	0.03%	0.009%
167	10.459	10.438	10.483	VV	725	10532	0.12%	0.033%
168	10.490	10.483	10.508	VV	448	4631	0.05%	0.015%
169	10.529	10.508	10.542	VV	521	7463	0.08%	0.024%
170	10.545	10.542	10.582	VV	489	9209	0.10%	0.029%
171	10.601	10.591	10.620	VV	518	5351	0.06%	0.017%
172	10.637	10.620	10.642	VV	448	4493	0.05%	0.014%
173	10.663	10.642	10.684	VV	1262	16919	0.19%	0.054%
174	10.702	10.684	10.732	VV	546	9394	0.10%	0.030%
175	10.762	10.732	10.780	VV	392	7707	0.08%	0.024%
176	10.785	10.780	10.797	VV	282	1814	0.02%	0.006%
177	10.804	10.797	10.812	VV	217	1254	0.01%	0.004%
178	10.883	10.830	10.913	VV	642	14025	0.15%	0.044%
179	10.945	10.913	10.970	VV	1279	18372	0.20%	0.058%
180	10.980	10.970	11.004	VV	546	7639	0.08%	0.024%
181	11.029	11.004	11.052	VV	1452	23744	0.26%	0.075%
182	11.056	11.052	11.088	VV	409	5941	0.07%	0.019%
183	11.093	11.088	11.127	VV	443	4888	0.05%	0.016%
184	11.153	11.127	11.162	VV	559	8326	0.09%	0.026%
185	11.167	11.162	11.196	VV	374	4130	0.05%	0.013%
186	11.235	11.196	11.312	VV	657157	7117466	78.25%	22.570%
187	11.317	11.312	11.338	VV	1779	22642	0.25%	0.072%
188	11.343	11.338	11.383	VV	1134	22641	0.25%	0.072%
189	11.410	11.383	11.434	VV	1881	33091	0.36%	0.105%
190	11.441	11.434	11.456	VV	443	5076	0.06%	0.016%
191	11.463	11.456	11.475	VV	426	4009	0.04%	0.013%
192	11.478	11.475	11.485	VV	371	2024	0.02%	0.006%
193	11.521	11.485	11.526	VV	651	10806	0.12%	0.034%
194	11.532	11.526	11.541	VV	688	4755	0.05%	0.015%

rteres

195	11.565	11.541	11.578	VV	1323	19999	0.22%	0.063%
196	11.587	11.578	11.611	VV	1289	20589	0.23%	0.065%
197	11.616	11.611	11.632	VV	884	10008	0.11%	0.032%
198	11.667	11.632	11.718	VV	7791	126873	1.39%	0.402%
199	11.733	11.718	11.744	VV	910	10622	0.12%	0.034%
200	11.757	11.744	11.780	VV	1009	15618	0.17%	0.050%
201	11.813	11.780	11.840	VV	2433	48900	0.54%	0.155%
202	11.861	11.840	11.933	VV	25148	442008	4.86%	1.402%
203	11.939	11.933	12.012	VV	2015	67194	0.74%	0.213%
204	12.019	12.012	12.059	VV	1239	29557	0.32%	0.094%
205	12.103	12.059	12.132	VV	10504	155765	1.71%	0.494%
206	12.146	12.132	12.158	VV	804	10441	0.11%	0.033%
207	12.174	12.158	12.208	VV	1597	26992	0.30%	0.086%
208	12.243	12.208	12.259	VV	1563	23049	0.25%	0.073%
209	12.262	12.259	12.270	VV	724	4277	0.05%	0.014%
210	12.310	12.270	12.344	VV	3308	57111	0.63%	0.181%
211	12.347	12.344	12.354	VV	425	1996	0.02%	0.006%
212	12.366	12.354	12.390	VV	510	7825	0.09%	0.025%
213	12.391	12.390	12.410	VV	353	2085	0.02%	0.007%
214	12.420	12.410	12.439	VV	1051	3665	0.04%	0.012%
215	12.444	12.439	12.467	VV	384	3734	0.04%	0.012%
216	12.496	12.467	12.514	VV	557	11228	0.12%	0.036%
217	12.519	12.514	12.540	VV	483	6133	0.07%	0.019%
218	12.563	12.540	12.576	VV	452	6698	0.07%	0.021%
219	12.602	12.576	12.626	VV	607	12683	0.14%	0.040%
220	12.638	12.626	12.641	VV	496	3967	0.04%	0.013%
221	12.675	12.641	12.727	VV	143386	1710349	18.80%	5.424%
222	12.731	12.727	12.797	VV	1338	34350	0.38%	0.109%
223	12.810	12.797	12.816	VV	595	5978	0.07%	0.019%
224	12.856	12.816	12.882	VV	846	26155	0.29%	0.083%
225	12.914	12.882	12.980	VV	5196	99642	1.10%	0.316%
226	12.991	12.980	13.012	VV	717	12629	0.14%	0.040%
227	13.043	13.012	13.074	VV	974	27656	0.30%	0.088%
228	13.095	13.074	13.164	VV	7306	176076	1.94%	0.558%
229	13.170	13.164	13.210	VV	1248	28692	0.32%	0.091%
230	13.226	13.210	13.249	VV	880	18490	0.20%	0.059%
231	13.257	13.249	13.299	VV	906	25391	0.28%	0.081%
232	13.305	13.299	13.325	VV	910	11220	0.12%	0.036%
233	13.393	13.325	13.413	VV	1768	53591	0.59%	0.170%
234	13.432	13.413	13.508	VV	1497	36748	0.40%	0.117%
235	13.538	13.508	13.565	VV	522	10109	0.11%	0.032%
236	13.571	13.565	13.605	VV	265	2714	0.03%	0.009%
237	13.660	13.605	13.683	VV	390	11193	0.12%	0.035%
238	13.703	13.683	13.717	VV	508	8354	0.09%	0.026%
239	13.727	13.717	13.754	VV	505	7920	0.09%	0.025%
240	13.768	13.754	13.790	VV	495	8660	0.10%	0.027%
241	13.810	13.790	13.824	VV	497	7576	0.08%	0.024%
242	13.885	13.824	13.973	VV	1630	64689	0.71%	0.205%
243	13.989	13.973	14.016	VV	641	11104	0.12%	0.035%
244	14.066	14.016	14.078	VV	565	14283	0.16%	0.045%
245	14.128	14.078	14.187	VV	719	36822	0.40%	0.117%
246	14.199	14.187	14.213	VV	595	7767	0.09%	0.025%

rteres

247	14.234	14.213	14.254	VV	710	12977	0.14%	0.041%
248	14.263	14.254	14.270	VV	617	5286	0.06%	0.017%
249	14.299	14.270	14.315	VV	913	20220	0.22%	0.064%
250	14.337	14.315	14.372	VV	933	22360	0.25%	0.071%
251	14.387	14.372	14.431	VV	496	11933	0.13%	0.038%
252	14.455	14.431	14.464	VV	462	5687	0.06%	0.018%
253	14.504	14.464	14.517	VV	1280	27772	0.31%	0.088%
254	14.532	14.517	14.572	VV	1655	29452	0.32%	0.093%
255	14.590	14.572	14.655	VV	927	18413	0.20%	0.058%
256	14.697	14.655	14.745	PV	1349	24807	0.27%	0.079%
257	14.757	14.745	14.774	VV	543	6147	0.07%	0.019%
258	14.778	14.774	14.799	VV	442	4453	0.05%	0.014%
259	14.810	14.799	14.835	VV	286	5069	0.06%	0.016%
260	14.854	14.835	14.879	VV	464	8593	0.09%	0.027%
261	14.914	14.879	15.024	VV	7505	200949	2.21%	0.637%
262	15.071	15.024	15.138	VV	2546	73555	0.81%	0.233%
263	15.149	15.138	15.157	VV	543	5209	0.06%	0.017%
264	15.186	15.157	15.217	VV	775	20151	0.22%	0.064%
265	15.243	15.217	15.300	VV	1441	32331	0.36%	0.103%
266	15.350	15.300	15.362	VV	894	19295	0.21%	0.061%
267	15.375	15.362	15.417	VV	792	19327	0.21%	0.061%
268	15.435	15.417	15.474	VV	696	17010	0.19%	0.054%
269	15.509	15.474	15.527	VV	901	19151	0.21%	0.061%
270	15.547	15.527	15.570	VV	1438	24591	0.27%	0.078%
271	15.578	15.570	15.609	VV	843	13320	0.15%	0.042%
272	15.628	15.609	15.670	VV	542	12130	0.13%	0.038%
273	15.685	15.670	15.702	VV	431	4663	0.05%	0.015%
274	15.707	15.702	15.726	VV	205	2781	0.03%	0.009%
275	15.738	15.726	15.747	VV	351	2650	0.03%	0.008%
276	15.754	15.747	15.806	VV	302	6816	0.07%	0.022%
277	15.835	15.806	15.845	VV	239	3776	0.04%	0.012%
278	15.860	15.845	15.885	VV	224	3948	0.04%	0.013%
279	15.933	15.885	15.960	PV	1108	26554	0.29%	0.084%
280	15.984	15.960	16.005	VV	927	19433	0.21%	0.062%
281	16.027	16.005	16.065	VV	1018	21054	0.23%	0.067%
282	16.126	16.065	16.165	VV	1236	37856	0.42%	0.120%
283	16.174	16.165	16.184	VV	439	4186	0.05%	0.013%
284	16.235	16.184	16.357	VV	1082	65861	0.72%	0.209%
285	16.371	16.357	16.380	VV	771	9289	0.10%	0.029%
286	16.404	16.380	16.435	VV	963	24526	0.27%	0.078%
287	16.457	16.435	16.475	VV	1103	20689	0.23%	0.066%
288	16.489	16.475	16.510	VV	1991	24121	0.27%	0.076%
289	16.532	16.510	16.565	VV	6037	85734	0.94%	0.272%
290	16.588	16.565	16.620	VV	600	14491	0.16%	0.046%
291	16.629	16.620	16.654	VV	362	5573	0.06%	0.018%
292	16.658	16.654	16.683	VV	305	3965	0.04%	0.013%
293	16.698	16.683	16.742	VV	355	7856	0.09%	0.025%
294	16.768	16.742	16.777	VV	215	3436	0.04%	0.011%
295	16.805	16.777	16.833	VV	713	13060	0.14%	0.041%
296	16.865	16.833	16.914	PV	813	21638	0.24%	0.069%
297	16.940	16.914	16.969	VV	1745	30773	0.34%	0.098%
298	16.979	16.969	16.999	VV	372	5974	0.07%	0.019%
299	17.015	16.999	17.032	VV	427	7069	0.08%	0.022%

rteres

300	17.046	17.032	17.066	VV	514	8313	0.09%	0.026%
301	17.073	17.066	17.123	VV	376	10268	0.11%	0.033%
302	17.180	17.123	17.205	VV	536	18053	0.20%	0.057%
303	17.211	17.205	17.230	VV	519	6335	0.07%	0.020%
304	17.236	17.230	17.284	VV	538	13043	0.14%	0.041%
305	17.314	17.284	17.325	VV	683	12964	0.14%	0.041%
306	17.343	17.325	17.355	VV	1395	18372	0.20%	0.058%
307	17.371	17.355	17.443	VV	2073	41809	0.46%	0.133%
308	17.467	17.443	17.520	VV	2512	46228	0.51%	0.147%
309	17.528	17.520	17.541	VV	555	3563	0.04%	0.011%
310	17.577	17.541	17.599	VV	373	7794	0.09%	0.025%
311	17.614	17.599	17.634	VV	206	2581	0.03%	0.008%
312	17.666	17.634	17.692	PV	511	10115	0.11%	0.032%
313	17.732	17.692	17.775	VV	5626	118703	1.30%	0.376%
314	17.792	17.775	17.836	VV	2493	51669	0.57%	0.164%
315	17.845	17.836	17.870	VV	512	6472	0.07%	0.021%
316	17.900	17.870	17.938	VV	610	15102	0.17%	0.048%
317	17.971	17.938	17.982	VV	248	3850	0.04%	0.012%
318	18.006	17.982	18.029	VV	421	7221	0.08%	0.023%
319	18.039	18.029	18.084	VV	309	7188	0.08%	0.023%
320	18.199	18.084	18.225	VV	2159	56816	0.62%	0.180%
321	18.233	18.225	18.271	VV	708	10257	0.11%	0.033%

Sum of corrected areas: 31535303

Aromatic EPH 021125.M Sat Mar 01 04:05:30 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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...	7.352	8010402	55.974 ug/ml
Spiked Amount 50.000		Recovery = 111.95%	
6) S 2-Flurobiphenyl (SURR)	8.201	5081253	57.799 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 115.60%	
11) S ortho-Terphenyl (SURR)	11.236	8041222	49.706 ug/ml
Spiked Amount 50.000		Recovery = 99.41%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

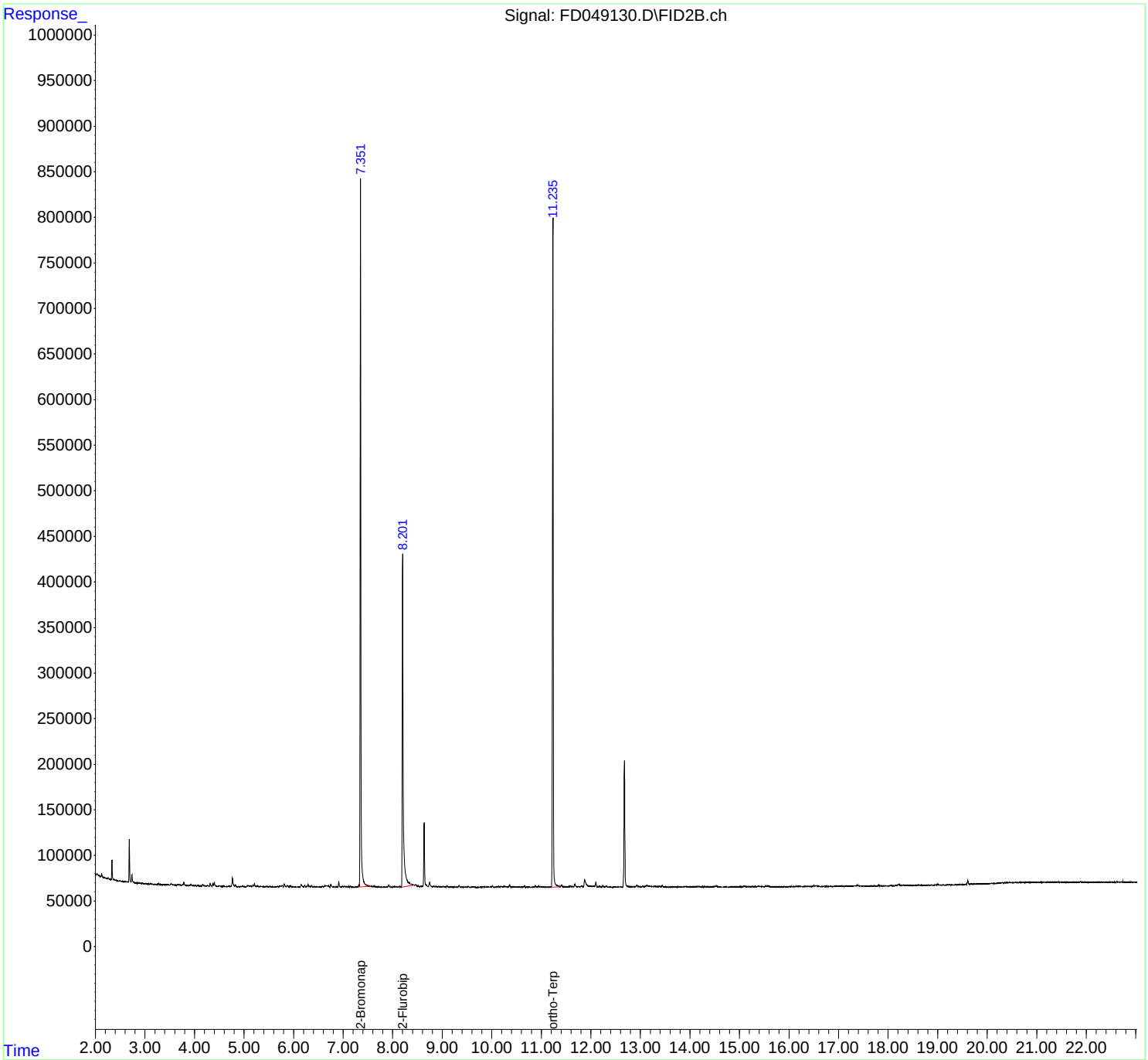
Sample Results: **FD049130.D**

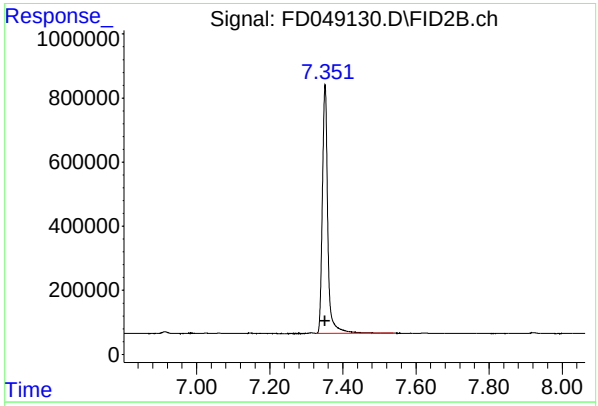
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

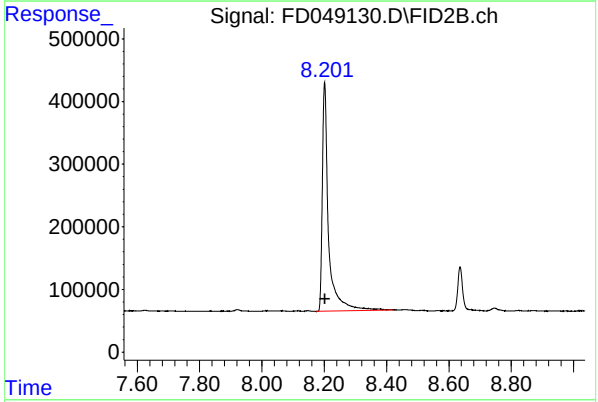




#4 2-Bromonaphthalene (SURR)

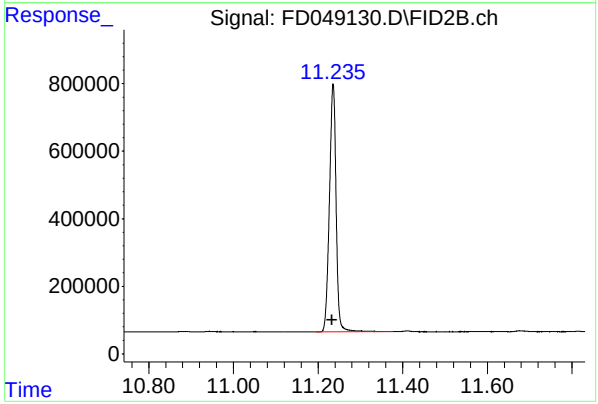
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8010402
Conc: 55.97 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 5081253
Conc: 57.80 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.002 min
Response: 8041222
Conc: 49.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	7.352	7.327	7.537	VB	776735	8010402	99.62%	37.905%
2	8.201	8.174	8.420	PB	364991	5081253	63.19%	24.044%
3	11.236	11.195	11.377	BB	734702	8041222	100.00%	38.051%
			Sum of corrected areas:			21132876		

Aromatic EPH 021125.M Sat Mar 01 03:51:24 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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...	12.840	4680251	41.612 ug/ml
Spiked Amount 50.000		Recovery = 83.22%	
Target Compounds			

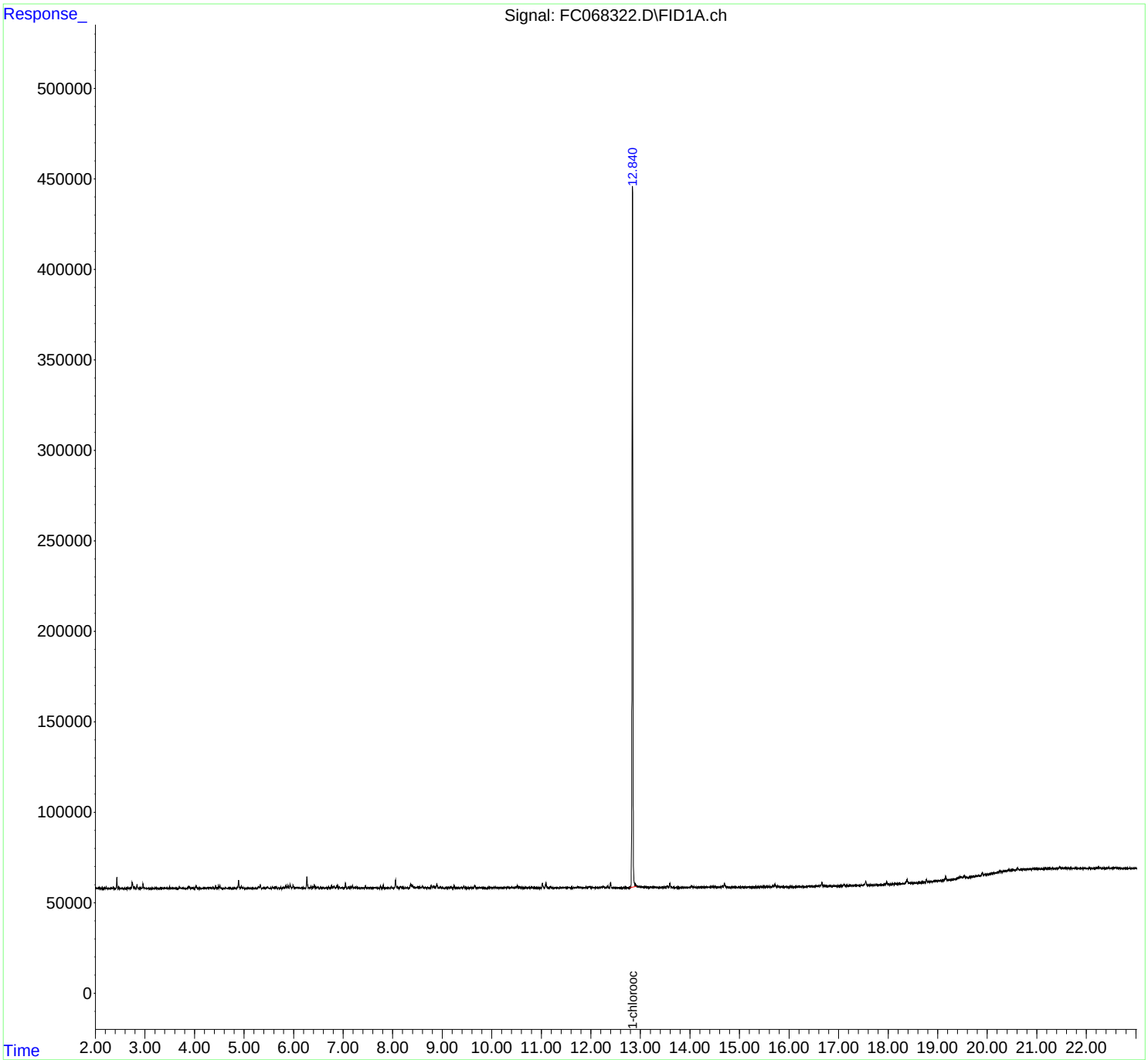
(f)=RT Delta > 1/2 Window (m)=manual int.

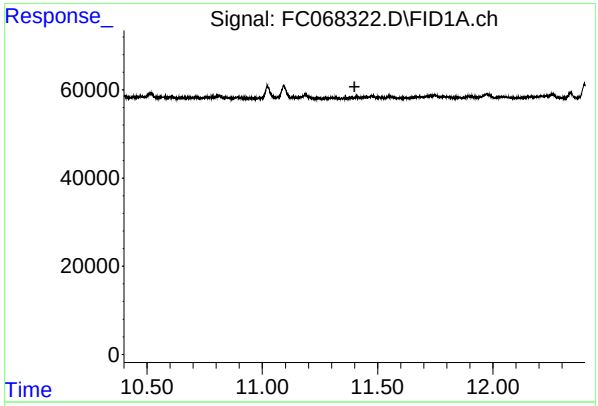
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

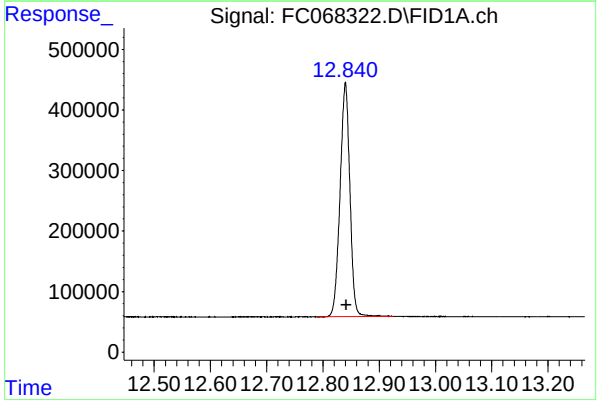




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166923BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 4680251
Conc: 41.61 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	12.840	12.788	12.925	BB	386372	4680251	100.00%	100.000%
			Sum of corrected areas:			4680251		

Aliphatic EPH 021125.M Sat Mar 01 01:22:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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...	7.352	8337130	58.257 ug/ml
	Spiked Amount 50.000		Recovery = 116.51%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5441864	61.901 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 123.80%	
11)	S ortho-Terphenyl (SURR)	11.237	8579131	53.031 ug/ml
	Spiked Amount 50.000		Recovery = 106.06%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	7284149	45.739 ug/ml
2)	T Naphthalene (C11.7)	5.693	8222037	51.780 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	8074488	51.862 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	9136899	56.191 ug/ml
7)	T Acenaphthene (C15.5)	8.300	9599893	58.355 ug/ml
8)	T Flouorene (C16.55)	9.079	9673508	61.361 ug/ml
9)	T Phenanthrene (C19.36)	10.467	9815403	65.132 ug/ml
10)	T Anthracene (C19.43)	10.543	9838705	65.145 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10212040	66.177 ug/ml
13)	T Pyrene (C20.8)	12.566	10018958	65.034 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9485151	72.191 ug/ml
15)	T Chrysene (C27.41)	14.479	9302019	57.531 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	9472667	68.845 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9519915	60.275 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	9102339	67.059 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.733	8774948	80.300 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	8997450	57.996 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.983	8981700	61.964 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

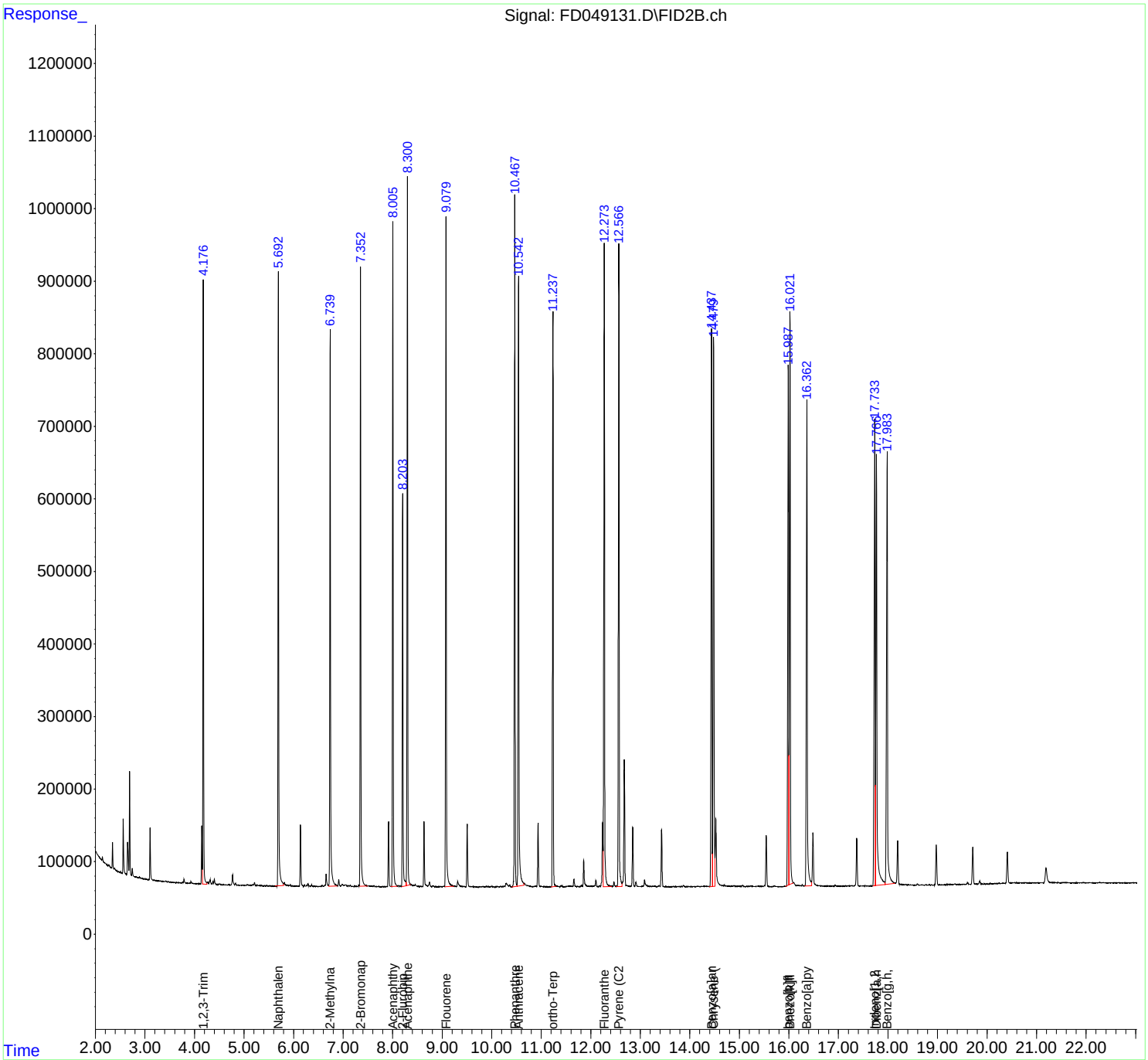
Sample Results: **FD049131.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.176	4.160	4.251	VV	832466	7284149	71.33%	3.877%
2	5.693	5.625	5.797	BV	847783	8222037	80.51%	4.376%
3	6.739	6.710	6.875	VV	766284	8074488	79.07%	4.298%
4	7.352	7.328	7.497	VB	853398	8337130	81.64%	4.438%
5	8.005	7.960	8.095	BV	916751	9136899	89.47%	4.863%
6	8.203	8.177	8.272	BV	542452	5441864	53.29%	2.897%
7	8.300	8.272	8.367	VV	975321	9599893	94.01%	5.110%
8	9.079	9.051	9.230	PV	926912	9673508	94.73%	5.149%
9	10.467	10.403	10.513	BV	952424	9815403	96.12%	5.225%
10	10.543	10.513	10.647	VV	840898	9838705	96.34%	5.237%
11	11.237	11.193	11.310	BV	791167	8579131	84.01%	4.567%
12	12.273	12.248	12.427	VB	888617	10212040	100.00%	5.436%
13	12.566	12.507	12.632	VV	889348	10018958	98.11%	5.333%
14	14.437	14.393	14.454	BV	768080	9485151	92.88%	5.049%
15	14.479	14.454	14.507	VV	756410	9302019	91.09%	4.951%
16	15.987	15.930	16.001	BV	716637	9472667	92.76%	5.042%
17	16.022	16.001	16.085	VV	788969	9519915	93.22%	5.067%
18	16.362	16.313	16.457	BV	670089	9102339	89.13%	4.845%
19	17.733	17.690	17.746	BV	643928	8774948	85.93%	4.671%
20	17.767	17.746	17.942	VV	594625	8997450	88.11%	4.789%
21	17.983	17.942	18.143	VV	596917	8981700	87.95%	4.781%

Sum of corrected areas: 187870394

Aromatic EPH 021125.M Sat Mar 01 03:53:48 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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...	12.840	4376930	38.915 ug/ml
Spiked Amount	50.000		Recovery =	77.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3770437	26.802 ug/ml
2) T	n-Decane (C10)	4.262	4690075	33.105 ug/ml
4) T	n-Dodecane (C12)	6.270	5370934	38.157 ug/ml
6) T	n-Tetradecane (C14)	8.059	5778269	42.380 ug/ml
7) T	n-Hexadecane (C16)	9.655	6026599	44.001 ug/ml
8) T	n-Octadecane (C18)	11.094	6267228	45.827 ug/ml
10) T	n-Eicosane (C20)	12.400	6468032	49.645 ug/ml
11) T	n-Heneicosane (C21)	13.011	6177617	48.320 ug/ml
13) T	n-Docosane (C22)	13.595	6141972	48.735 ug/ml
14) T	n-Tetracosane (C24)	14.696	6008487	48.309 ug/ml
15) T	n-Hexacosane (C26)	15.715	5879209	48.352 ug/ml
16) T	n-Octacosane (C28)	16.664	5728664	48.234 ug/ml
17) T	n-Tricontane (C30)	17.550	5730289	47.607 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5695730	49.073 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5652338	52.308 ug/ml
20) T	n-Hexatriacontane (C36)	19.903	5406820	56.222 ug/ml
21) T	n-Octatriacontane (C38)	20.615	5240074	58.289 ug/ml
22) T	n-Tetracontane (C40)	21.470	5034272	58.186 ug/ml

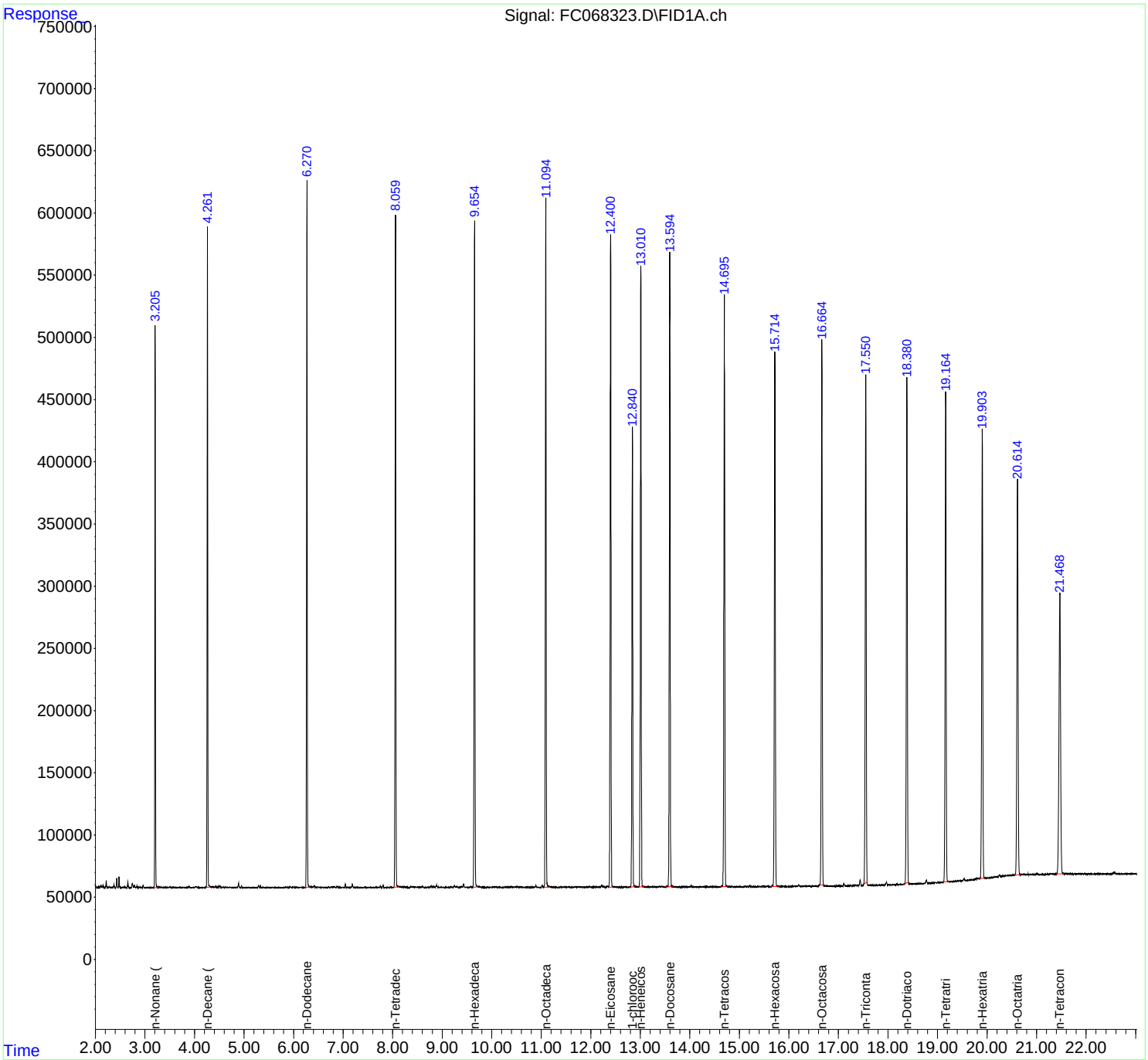
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.205	3.178	3.268	BB	449086	3770437	58.29%	3.570%
2	4.262	4.228	4.321	BB	526418	4690075	72.51%	4.441%
3	6.270	6.228	6.331	BB	569210	5370934	83.04%	5.085%
4	8.059	8.028	8.124	BB	538627	5778269	89.34%	5.471%
5	9.655	9.614	9.721	BB	535914	6026599	93.18%	5.706%
6	11.094	11.054	11.164	BB	550618	6267228	96.90%	5.934%
7	12.400	12.364	12.461	BB	527788	6468032	100.00%	6.124%
8	12.840	12.794	12.901	BB	374039	4376930	67.67%	4.144%
9	13.011	12.968	13.071	BB	499069	6177617	95.51%	5.849%
10	13.595	13.514	13.658	BB	506611	6141972	94.96%	5.815%
11	14.696	14.614	14.754	BB	474250	6008487	92.90%	5.689%
12	15.715	15.634	15.778	BB	426830	5879209	90.90%	5.567%
13	16.664	16.598	16.728	BB	438374	5768514	89.18%	5.462%
14	17.550	17.488	17.608	BB	407922	5811305	89.85%	5.502%
15	18.381	18.304	18.448	BB	407994	5745667	88.83%	5.440%
16	19.164	19.121	19.224	BB	392230	5652338	87.39%	5.352%
17	19.903	19.851	19.948	BB	359474	5406820	83.59%	5.119%
18	20.615	20.551	20.678	BB	318753	5240074	81.01%	4.961%
19	21.470	21.391	21.554	BB	221575	5034272	77.83%	4.767%

Sum of corrected areas: 105614773

Aliphatic EPH 021125.M Sat Mar 01 01:23:14 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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...	7.352	8444315	59.006 ug/ml
Spiked Amount	50.000		Recovery =	118.01%
6) S	2-Flurobiphenyl (SURR)	8.203	5539761	63.015 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	126.03%
11) S	ortho-Terphenyl (SURR)	11.237	8675284	53.626 ug/ml
Spiked Amount	50.000		Recovery =	107.25%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.177	7363423	46.237 ug/ml
2) T	Naphthalene (C11.7)	5.693	8299718	52.269 ug/ml
3) T	2-Methylnaphthalene (...	6.739	8179915	52.539 ug/ml
5) T	Acenaphthylene (C15.06)	8.006	9241947	56.837 ug/ml
7) T	Acenaphthene (C15.5)	8.301	9806969	59.614 ug/ml
8) T	Flouorene (C16.55)	9.079	9794107	62.126 ug/ml
9) T	Phenanthrene (C19.36)	10.467	9953645	66.049 ug/ml
10) T	Anthracene (C19.43)	10.543	10019118	66.339 ug/ml
12) T	Fluoranthene (C21.85)	12.273	10371581	67.210 ug/ml
13) T	Pyrene (C20.8)	12.567	10147707	65.869 ug/ml
14) T	Benzo[a]anthracene (C...	14.437	9644699	73.405 ug/ml
15) T	Chrysene (C27.41)	14.480	9454131	58.472 ug/ml
16) T	benzo[b]fluoranthene ...	15.988	9628743	69.979 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.022	9681524	61.298 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.364	9238467	68.062 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	8949996	81.902 ug/ml
20) T	Dibenz[a,h]anthracene...	17.767	9240484	59.562 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.985	9127178	62.967 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

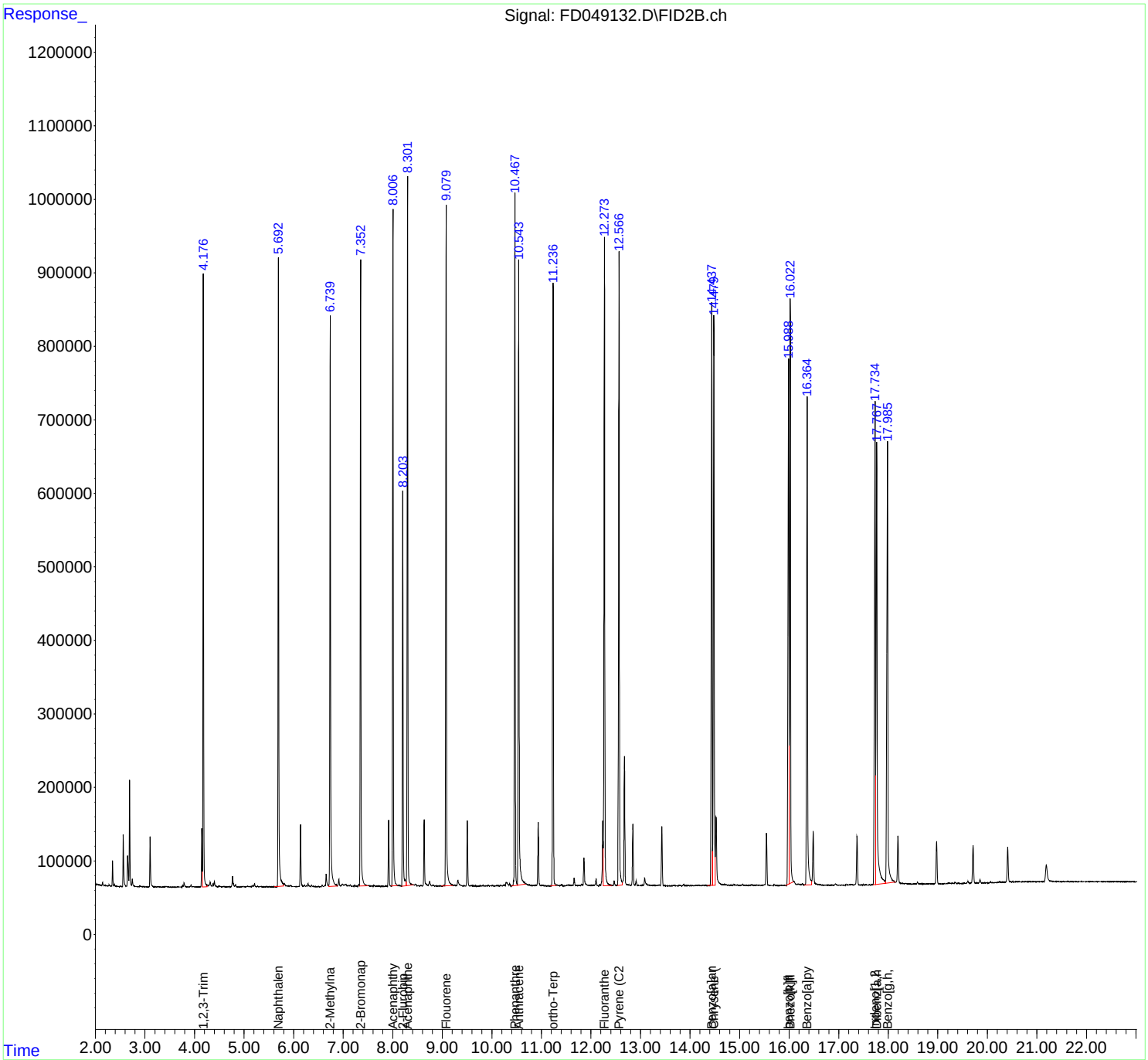
Sample Results: **FD049132.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.177	4.160	4.254	VV	833763	7363423	71.00%	3.859%
2	5.693	5.614	5.796	BV	854382	8299718	80.02%	4.350%
3	6.739	6.710	6.882	VV	774369	8179915	78.87%	4.287%
4	7.352	7.328	7.502	VV	850747	8444315	81.42%	4.426%
5	8.006	7.960	8.097	BV	918197	9241947	89.11%	4.844%
6	8.203	8.174	8.272	BV	537561	5539761	53.41%	2.903%
7	8.301	8.272	8.420	VB	960907	9806969	94.56%	5.140%
8	9.079	8.979	9.222	BV	923928	9794107	94.43%	5.133%
9	10.467	10.394	10.515	PV	942889	9953645	95.97%	5.217%
10	10.543	10.515	10.685	VV	852864	10019118	96.60%	5.251%
11	11.237	11.182	11.305	BV	818909	8675284	83.64%	4.547%
12	12.273	12.248	12.427	VB	878971	10371581	100.00%	5.436%
13	12.567	12.525	12.631	BV	861958	10147707	97.84%	5.318%
14	14.437	14.350	14.455	BV	792508	9644699	92.99%	5.055%
15	14.480	14.455	14.507	VV	775232	9454131	91.15%	4.955%
16	15.988	15.930	16.001	BV	716576	9628743	92.84%	5.046%
17	16.022	16.001	16.089	VV	793985	9681524	93.35%	5.074%
18	16.364	16.310	16.457	BV	664714	9238467	89.07%	4.842%
19	17.734	17.692	17.746	BV	656393	8949996	86.29%	4.691%
20	17.767	17.746	17.944	VV	600565	9240484	89.09%	4.843%
21	17.985	17.944	18.144	VV	600259	9127178	88.00%	4.784%

Sum of corrected areas: 190802711

Aromatic EPH 021125.M Sat Mar 01 03:55:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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...	12.840	4356774	38.736 ug/ml
Spiked Amount	50.000		Recovery =	77.47%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3794951	26.976 ug/ml
2) T	n-Decane (C10)	4.262	4712176	33.261 ug/ml
4) T	n-Dodecane (C12)	6.270	5382829	38.242 ug/ml
6) T	n-Tetradecane (C14)	8.059	5779518	42.389 ug/ml
7) T	n-Hexadecane (C16)	9.655	6016543	43.927 ug/ml
8) T	n-Octadecane (C18)	11.093	6243297	45.652 ug/ml
10) T	n-Eicosane (C20)	12.399	6441586	49.442 ug/ml
11) T	n-Heneicosane (C21)	13.010	6154772	48.142 ug/ml
13) T	n-Docosane (C22)	13.595	6104328	48.436 ug/ml
14) T	n-Tetracosane (C24)	14.697	5990514	48.164 ug/ml
15) T	n-Hexacosane (C26)	15.715	5861152	48.203 ug/ml
16) T	n-Octacosane (C28)	16.664	5725382	48.207 ug/ml
17) T	n-Tricontane (C30)	17.551	5737111	47.664 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5715622	49.244 ug/ml
19) T	n-Tetratriacontane (C34)	19.163	5668029	52.453 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	5431820	56.482 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5265474	58.572 ug/ml
22) T	n-Tetracontane (C40)	21.470	5078129	58.693 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

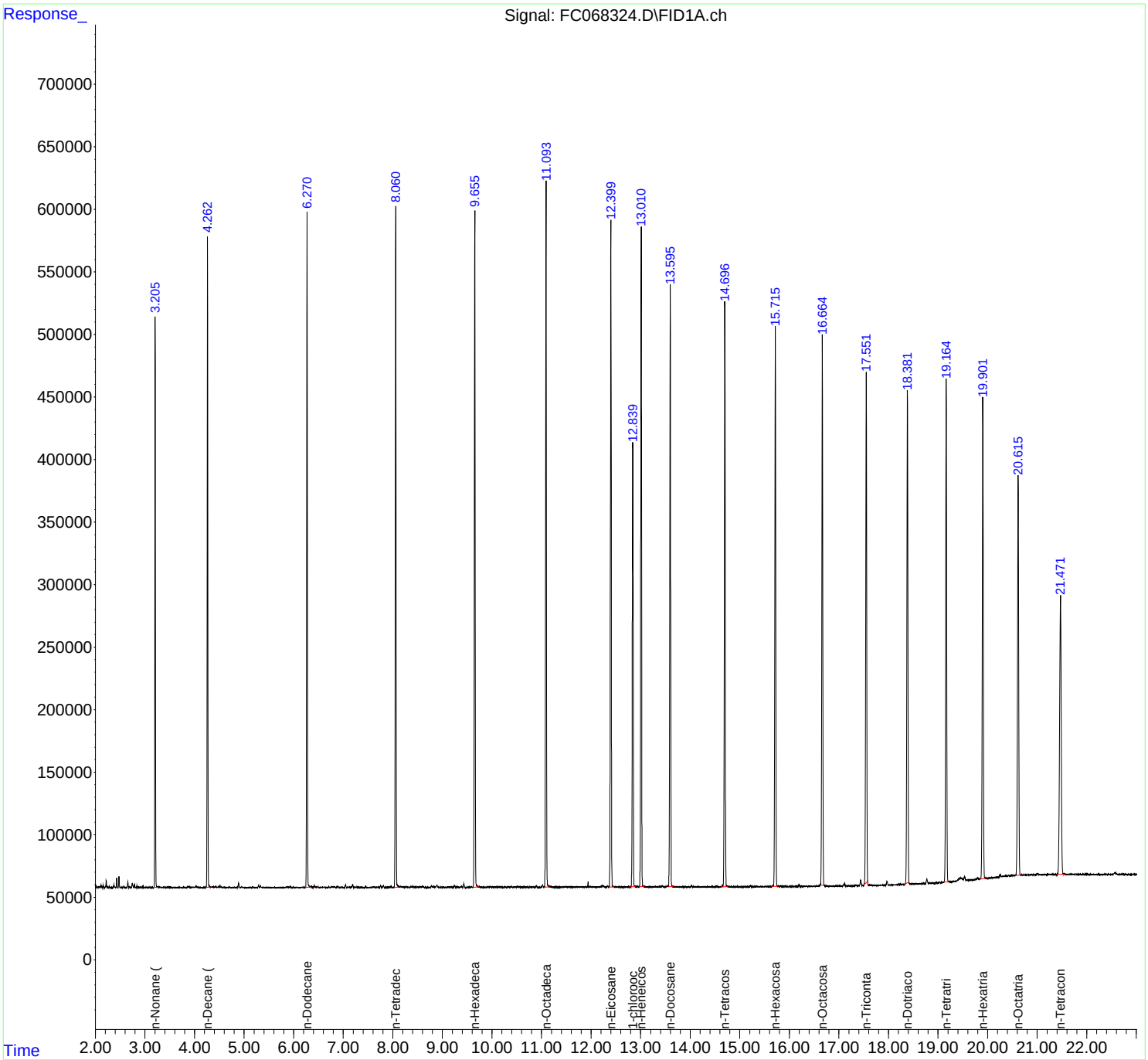
Sample Results: **FC068324.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.205	3.168	3.268	BB	454324	3794951	58.91%	3.592%
2	4.262	4.231	4.325	BB	517887	4712176	73.15%	4.460%
3	6.270	6.231	6.338	BB	544816	5382829	83.56%	5.095%
4	8.059	8.028	8.128	BB	537206	5779518	89.72%	5.471%
5	9.655	9.615	9.731	BB	535033	6016543	93.40%	5.695%
6	11.093	11.051	11.165	BB	558187	6243297	96.92%	5.910%
7	12.399	12.358	12.451	BB	523836	6441586	100.00%	6.097%
8	12.840	12.778	12.898	BB	356315	4356774	67.64%	4.124%
9	13.010	12.968	13.071	BB	522913	6154772	95.55%	5.826%
10	13.595	13.558	13.658	BB	481011	6104328	94.76%	5.778%
11	14.697	14.618	14.758	BB	467416	5990514	93.00%	5.671%
12	15.715	15.648	15.775	BB	442423	5861152	90.99%	5.548%
13	16.664	16.598	16.728	BB	439005	5768706	89.55%	5.461%
14	17.551	17.491	17.608	BB	410276	5827258	90.46%	5.516%
15	18.381	18.315	18.445	BB	395852	5765342	89.50%	5.457%
16	19.163	19.121	19.221	BB	404106	5668029	87.99%	5.365%
17	19.902	19.851	19.968	BB	380790	5431820	84.32%	5.142%
18	20.616	20.551	20.675	BB	316762	5265474	81.74%	4.984%
19	21.470	21.391	21.555	BB	222869	5078129	78.83%	4.807%

Sum of corrected areas: 105643198

Aliphatic EPH 021125.M Sat Mar 01 01:23:32 2025

Quantitation Report (QT Reviewed)

Sample Results: **FD049142.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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...	7.352	8441841	58.989 ug/ml
Spiked Amount	50.000		Recovery =	117.98%
6) S	2-Flurobiphenyl (SURR)	8.203	5467908	62.198 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	124.40%
11) S	ortho-Terphenyl (SURR)	11.234	5392113	33.331 ug/ml
Spiked Amount	50.000		Recovery =	66.66%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	7161833	44.971 ug/ml
2) T	Naphthalene (C11.7)	5.693	7880512	49.629 ug/ml
3) T	2-Methylnaphthalene (...	6.739	7723846	49.609 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	9044713	55.624 ug/ml
7) T	Acenaphthene (C15.5)	8.300	9678387	58.832 ug/ml
8) T	Flouorene (C16.55)	9.079	9845850	62.454 ug/ml
9) T	Phenanthrene (C19.36)	10.468	10158364	67.407 ug/ml
10) T	Anthracene (C19.43)	10.543	10371977	68.676 ug/ml
12) T	Fluoranthene (C21.85)	12.273	10603708	68.715 ug/ml
13) T	Pyrene (C20.8)	12.566	10302701	66.875 ug/ml
14) T	Benzo[a]anthracene (C...	14.438	9819357	74.734 ug/ml
15) T	Chrysene (C27.41)	14.480	9593320	59.333 ug/ml
16) T	benzo[b]fluoranthene ...	15.988	9767406	70.987 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	9783217	61.942 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.364	9405556	69.293 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	9336608	85.440 ug/ml
20) T	Dibenz[a,h]anthracene...	17.769	9340051	60.204 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.986	9206882	63.517 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

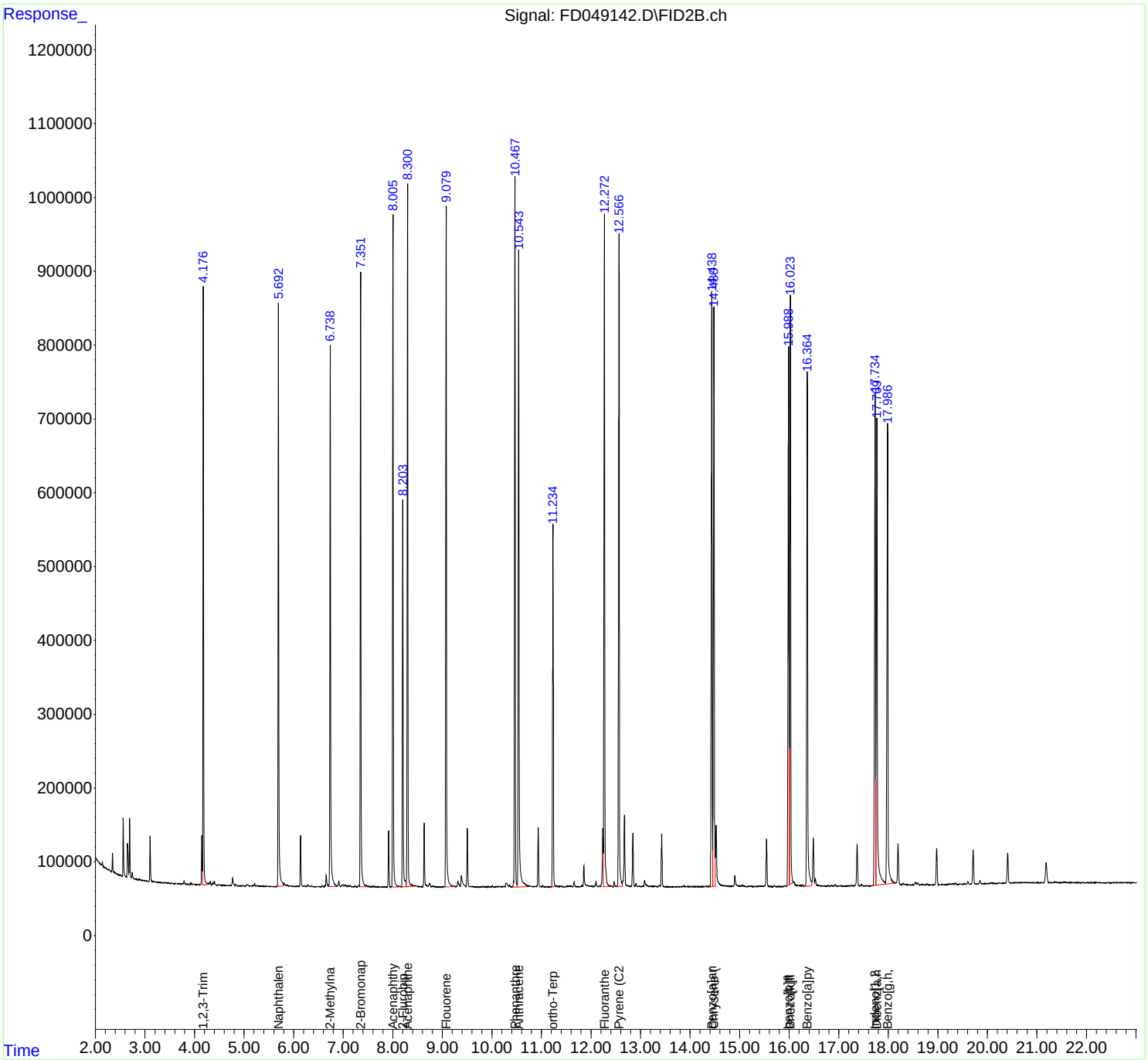
Sample Results: **FD049142.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.051	4.042	4.074	BV	200	1949	0.02%	0.001%
2	4.097	4.086	4.101	VV	287	1757	0.02%	0.001%
3	4.106	4.101	4.125	VV	245	2635	0.02%	0.001%
4	4.147	4.125	4.159	VV	66954	606704	5.69%	0.288%
5	4.176	4.159	4.249	VV	809194	7172085	67.25%	3.409%
6	4.264	4.249	4.283	VV	2629	44609	0.42%	0.021%
7	4.316	4.283	4.355	VV	4818	102157	0.96%	0.049%
8	4.372	4.355	4.386	VV	3899	44061	0.41%	0.021%
9	4.402	4.386	4.451	VV	5595	77864	0.73%	0.037%
10	4.461	4.451	4.466	VV	476	3666	0.03%	0.002%
11	4.473	4.466	4.479	VV	549	3174	0.03%	0.002%
12	4.489	4.479	4.505	VV	815	9833	0.09%	0.005%
13	4.515	4.505	4.537	VV	940	10614	0.10%	0.005%
14	4.544	4.537	4.550	VV	343	2200	0.02%	0.001%
15	4.554	4.550	4.570	VV	319	3383	0.03%	0.002%
16	4.582	4.570	4.596	VV	709	7747	0.07%	0.004%
17	4.601	4.596	4.629	VV	492	6562	0.06%	0.003%
18	4.632	4.629	4.644	VV	227	1270	0.01%	0.001%
19	4.689	4.644	4.704	PV	686	10067	0.09%	0.005%
20	4.708	4.704	4.724	VV	421	4004	0.04%	0.002%
21	4.769	4.724	4.814	VV	10740	161309	1.51%	0.077%
22	4.828	4.814	4.879	VV	2485	35628	0.33%	0.017%
23	4.884	4.879	4.893	VV	296	1516	0.01%	0.001%
24	4.902	4.893	4.918	VV	372	3335	0.03%	0.002%
25	4.933	4.918	4.947	VV	401	4801	0.05%	0.002%
26	4.966	4.947	5.015	VV	658	12165	0.11%	0.006%
27	5.048	5.015	5.110	VV	1751	54701	0.51%	0.026%
28	5.118	5.110	5.124	VV	639	5121	0.05%	0.002%
29	5.137	5.124	5.159	VV	830	11050	0.10%	0.005%
30	5.178	5.159	5.195	VV	1661	23212	0.22%	0.011%
31	5.211	5.195	5.254	VV	3925	52356	0.49%	0.025%
32	5.270	5.254	5.324	VV	1122	20499	0.19%	0.010%
33	5.337	5.324	5.349	VV	519	6461	0.06%	0.003%
34	5.353	5.349	5.376	VV	487	4742	0.04%	0.002%
35	5.383	5.376	5.392	VV	292	1658	0.02%	0.001%
36	5.416	5.407	5.422	VV	300	1542	0.01%	0.001%

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37	5.459	5.442	5.504	VV	623	9027	0.08%	0.004%
38	5.518	5.504	5.538	PV	410	5182	0.05%	0.002%
39	5.549	5.538	5.559	VV	189	1550	0.01%	0.001%
40	5.565	5.559	5.603	PV	240	3982	0.04%	0.002%
41	5.612	5.603	5.619	VV	211	1351	0.01%	0.001%
42	5.631	5.624	5.642	VV	181	1272	0.01%	0.001%
43	5.693	5.668	5.797	VV	793145	7931134	74.36%	3.770%
44	5.811	5.797	5.854	VV	4295	93483	0.88%	0.044%
45	5.869	5.854	5.909	VV	2478	48819	0.46%	0.023%
46	5.935	5.909	5.989	VV	1373	40532	0.38%	0.019%
47	6.002	5.989	6.017	VV	597	7544	0.07%	0.004%
48	6.023	6.017	6.045	VV	453	5914	0.06%	0.003%
49	6.063	6.045	6.105	VV	735	19006	0.18%	0.009%
50	6.112	6.105	6.117	VV	542	3388	0.03%	0.002%
51	6.140	6.117	6.200	VV	69527	744439	6.98%	0.354%
52	6.221	6.200	6.242	VV	1744	23671	0.22%	0.011%
53	6.261	6.242	6.275	VV	1241	13623	0.13%	0.006%
54	6.291	6.275	6.310	VV	3148	36237	0.34%	0.017%
55	6.322	6.310	6.345	VV	898	11995	0.11%	0.006%
56	6.362	6.345	6.392	VV	1662	18852	0.18%	0.009%
57	6.399	6.392	6.407	VV	246	1640	0.02%	0.001%
58	6.412	6.407	6.436	VV	249	2069	0.02%	0.001%
59	6.471	6.436	6.494	PV	335	6665	0.06%	0.003%
60	6.506	6.494	6.510	VV	295	1869	0.02%	0.001%
61	6.515	6.510	6.539	VV	325	3837	0.04%	0.002%
62	6.577	6.547	6.601	VV	1688	20132	0.19%	0.010%
63	6.631	6.601	6.642	VV	1678	22082	0.21%	0.010%
64	6.658	6.642	6.694	VV	16123	203178	1.91%	0.097%
65	6.702	6.694	6.710	VV	2044	17501	0.16%	0.008%
66	6.739	6.710	6.873	VV	733466	7782063	72.97%	3.699%
67	6.879	6.873	6.886	VV	1511	11215	0.11%	0.005%
68	6.913	6.886	6.957	VV	8088	122141	1.15%	0.058%
69	6.989	6.957	7.010	VV	3353	71321	0.67%	0.034%
70	7.024	7.010	7.030	VV	2196	23196	0.22%	0.011%
71	7.041	7.030	7.052	VV	2222	26499	0.25%	0.013%
72	7.059	7.052	7.081	VV	2270	28270	0.27%	0.013%
73	7.088	7.081	7.094	VV	1071	6659	0.06%	0.003%
74	7.115	7.094	7.132	VV	1781	27765	0.26%	0.013%
75	7.145	7.132	7.170	VV	1979	26742	0.25%	0.013%
76	7.174	7.170	7.180	VV	411	2111	0.02%	0.001%
77	7.185	7.180	7.209	VV	561	6818	0.06%	0.003%
78	7.230	7.209	7.247	VV	1002	14943	0.14%	0.007%
79	7.253	7.247	7.292	VV	587	10829	0.10%	0.005%
80	7.315	7.292	7.327	VV	2494	27722	0.26%	0.013%
81	7.352	7.327	7.477	VV	832219	8468199	79.40%	4.025%
82	7.480	7.477	7.497	VV	1490	15443	0.14%	0.007%
83	7.510	7.497	7.530	VV	1172	19450	0.18%	0.009%
84	7.538	7.530	7.562	VV	805	12286	0.12%	0.006%
85	7.579	7.562	7.604	VV	862	14891	0.14%	0.007%
86	7.623	7.604	7.649	VV	1713	22247	0.21%	0.011%
87	7.656	7.649	7.665	VV	377	2873	0.03%	0.001%
88	7.677	7.665	7.692	VV	562	5658	0.05%	0.003%
89	7.710	7.692	7.737	VV	743	11487	0.11%	0.005%

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90	7.747	7.737	7.770	VV	346	4571	0.04%	0.002%
91	7.775	7.770	7.794	VV	370	2870	0.03%	0.001%
92	7.830	7.794	7.841	PV	493	7795	0.07%	0.004%
93	7.845	7.841	7.849	VV	322	1291	0.01%	0.001%
94	7.853	7.849	7.866	VV	272	2010	0.02%	0.001%
95	7.874	7.866	7.890	VV	319	2466	0.02%	0.001%
96	7.918	7.890	7.966	VV	76664	801713	7.52%	0.381%
97	7.972	7.966	7.978	VV	522	2714	0.03%	0.001%
98	8.005	7.978	8.095	VV	911037	9055813	84.91%	4.304%
99	8.114	8.095	8.133	VV	1822	31019	0.29%	0.015%
100	8.147	8.133	8.173	VV	1454	22842	0.21%	0.011%
101	8.203	8.173	8.272	VV	526994	5494210	51.51%	2.612%
102	8.300	8.272	8.367	VV	953439	9682877	90.79%	4.603%
103	8.375	8.367	8.398	VV	3452	54189	0.51%	0.026%
104	8.409	8.398	8.421	VV	2278	28942	0.27%	0.014%
105	8.426	8.421	8.439	VV	2045	19416	0.18%	0.009%
106	8.458	8.439	8.498	VV	2637	62203	0.58%	0.030%
107	8.514	8.498	8.545	VV	1431	24037	0.23%	0.011%
108	8.569	8.545	8.600	VV	1240	25005	0.23%	0.012%
109	8.635	8.600	8.713	VV	86818	934105	8.76%	0.444%
110	8.746	8.713	8.787	VV	5720	112882	1.06%	0.054%
111	8.820	8.787	8.850	VV	1900	37177	0.35%	0.018%
112	8.870	8.850	8.901	VV	879	12718	0.12%	0.006%
113	8.945	8.901	8.952	VV	570	10933	0.10%	0.005%
114	8.957	8.952	8.962	VV	501	2561	0.02%	0.001%
115	8.977	8.962	8.993	VV	555	6632	0.06%	0.003%
116	9.018	8.993	9.030	PV	873	10350	0.10%	0.005%
117	9.033	9.030	9.052	VV	664	6407	0.06%	0.003%
118	9.079	9.052	9.218	VV	919552	9905080	92.87%	4.708%
119	9.238	9.218	9.257	VV	1598	29835	0.28%	0.014%
120	9.262	9.257	9.274	VV	878	7981	0.07%	0.004%
121	9.314	9.274	9.369	VV	8290	185349	1.74%	0.088%
122	9.385	9.369	9.480	VV	15834	371651	3.48%	0.177%
123	9.506	9.480	9.558	VV	79885	884992	8.30%	0.421%
124	9.592	9.558	9.635	VV	994	34197	0.32%	0.016%
125	9.655	9.635	9.670	VV	484	7859	0.07%	0.004%
126	9.686	9.670	9.714	VV	420	6043	0.06%	0.003%
127	9.762	9.714	9.769	PV	438	4785	0.04%	0.002%
128	9.777	9.769	9.790	VV	456	4352	0.04%	0.002%
129	9.822	9.790	9.843	VV	1018	17425	0.16%	0.008%
130	9.858	9.843	9.867	VV	473	5264	0.05%	0.003%
131	9.882	9.867	9.888	VV	601	6706	0.06%	0.003%
132	9.894	9.888	9.919	VV	854	11228	0.11%	0.005%
133	9.934	9.919	9.957	VV	927	14006	0.13%	0.007%
134	9.967	9.957	9.974	VV	591	4945	0.05%	0.002%
135	9.978	9.974	9.990	VV	561	4749	0.04%	0.002%
136	10.010	9.990	10.042	VV	1696	22351	0.21%	0.011%
137	10.051	10.042	10.057	VV	344	1640	0.02%	0.001%
138	10.101	10.057	10.114	VV	1033	17019	0.16%	0.008%
139	10.131	10.114	10.157	VV	859	14601	0.14%	0.007%
140	10.182	10.157	10.204	VV	920	16808	0.16%	0.008%
141	10.237	10.204	10.248	VV	1208	19381	0.18%	0.009%

rteres

142	10.253	10.248	10.271	VV	1291	12598	0.12%	0.006%
143	10.288	10.271	10.297	VV	5325	57446	0.54%	0.027%
144	10.301	10.297	10.344	VV	5071	85103	0.80%	0.040%
145	10.363	10.344	10.394	VV	2702	42527	0.40%	0.020%
146	10.402	10.394	10.415	VV	453	4799	0.04%	0.002%
147	10.468	10.415	10.513	VV	959109	10175341	95.41%	4.837%
148	10.543	10.513	10.650	VV	865227	10276064	96.35%	4.884%
149	10.655	10.650	10.783	VV	5325	192747	1.81%	0.092%
150	10.801	10.783	10.808	VV	960	13324	0.12%	0.006%
151	10.815	10.808	10.840	VV	921	14729	0.14%	0.007%
152	10.846	10.840	10.853	VV	680	4871	0.05%	0.002%
153	10.874	10.853	10.888	VV	1240	21058	0.20%	0.010%
154	10.892	10.888	10.906	VV	1241	12913	0.12%	0.006%
155	10.937	10.906	10.978	VV	80624	916417	8.59%	0.436%
156	10.987	10.978	10.995	VV	935	8441	0.08%	0.004%
157	11.027	10.995	11.055	VV	1374	32725	0.31%	0.016%
158	11.061	11.055	11.082	VV	517	6492	0.06%	0.003%
159	11.084	11.082	11.089	VV	468	1545	0.01%	0.001%
160	11.091	11.089	11.097	VV	452	1825	0.02%	0.001%
161	11.101	11.097	11.105	VV	283	1124	0.01%	0.001%
162	11.122	11.105	11.127	VV	450	3943	0.04%	0.002%
163	11.146	11.127	11.152	VV	468	5580	0.05%	0.003%
164	11.157	11.152	11.202	VV	450	5023	0.05%	0.002%
165	11.234	11.202	11.308	PV	491209	5436431	50.97%	2.584%
166	11.320	11.308	11.335	VV	1361	18120	0.17%	0.009%
167	11.338	11.335	11.363	VV	856	12192	0.11%	0.006%
168	11.375	11.363	11.385	VV	1117	11249	0.11%	0.005%
169	11.407	11.385	11.444	VV	1757	28183	0.26%	0.013%
170	11.461	11.444	11.481	VV	369	5860	0.05%	0.003%
171	11.510	11.481	11.522	VV	1254	22960	0.22%	0.011%
172	11.532	11.522	11.549	VV	1360	17580	0.16%	0.008%
173	11.561	11.549	11.577	VV	1365	19769	0.19%	0.009%
174	11.593	11.577	11.615	VV	1474	25919	0.24%	0.012%
175	11.618	11.615	11.625	VV	818	4558	0.04%	0.002%
176	11.629	11.625	11.635	VV	904	4702	0.04%	0.002%
177	11.662	11.635	11.696	VV	7388	104342	0.98%	0.050%
178	11.702	11.696	11.718	VV	752	7375	0.07%	0.004%
179	11.737	11.718	11.750	VV	887	14523	0.14%	0.007%
180	11.760	11.750	11.775	VV	894	9693	0.09%	0.005%
181	11.815	11.775	11.836	VV	2082	42497	0.40%	0.020%
182	11.857	11.836	11.923	VV	28885	405403	3.80%	0.193%
183	11.932	11.923	11.959	VV	1958	32662	0.31%	0.016%
184	11.976	11.959	11.993	VV	1482	25899	0.24%	0.012%
185	12.015	11.993	12.040	VV	1390	29080	0.27%	0.014%
186	12.103	12.040	12.135	VV	7321	134707	1.26%	0.064%
187	12.144	12.135	12.158	VV	828	9196	0.09%	0.004%
188	12.178	12.158	12.197	VV	2181	30313	0.28%	0.014%
189	12.239	12.197	12.248	VV	79220	875296	8.21%	0.416%
190	12.273	12.248	12.427	VV	912682	10665336	100.00%	5.070%
191	12.436	12.427	12.450	VV	817	9715	0.09%	0.005%
192	12.467	12.450	12.507	VV	7234	99938	0.94%	0.048%
193	12.513	12.507	12.527	VV	893	8905	0.08%	0.004%
194	12.566	12.527	12.630	VV	887669	10352709	97.07%	4.921%

rteres

195	12.647	12.630	12.651	VV	8220	86525	0.81%	0.041%
196	12.676	12.651	12.724	VV	97675	1268327	11.89%	0.603%
197	12.726	12.724	12.778	VV	2129	48686	0.46%	0.023%
198	12.783	12.778	12.791	VV	1161	8032	0.08%	0.004%
199	12.801	12.791	12.807	VV	988	8990	0.08%	0.004%
200	12.812	12.807	12.817	VV	948	5699	0.05%	0.003%
201	12.846	12.817	12.887	VV	72685	878950	8.24%	0.418%
202	12.910	12.887	12.944	VV	4655	74190	0.70%	0.035%
203	12.965	12.944	12.972	VV	860	12682	0.12%	0.006%
204	12.989	12.972	13.017	VV	921	20436	0.19%	0.010%
205	13.038	13.017	13.065	VV	1218	27663	0.26%	0.013%
206	13.084	13.065	13.170	VV	9050	195629	1.83%	0.093%
207	13.175	13.170	13.193	VV	1156	13485	0.13%	0.006%
208	13.200	13.193	13.210	VV	910	8136	0.08%	0.004%
209	13.224	13.210	13.229	VV	909	8915	0.08%	0.004%
210	13.235	13.229	13.243	VV	806	6098	0.06%	0.003%
211	13.262	13.243	13.284	VV	975	20576	0.19%	0.010%
212	13.296	13.284	13.324	VV	1002	17856	0.17%	0.008%
213	13.327	13.324	13.349	VV	652	8655	0.08%	0.004%
214	13.384	13.349	13.402	VV	2352	44085	0.41%	0.021%
215	13.428	13.402	13.475	VV	71602	872259	8.18%	0.415%
216	13.479	13.475	13.482	VV	640	2234	0.02%	0.001%
217	13.487	13.482	13.512	VV	631	7759	0.07%	0.004%
218	13.535	13.512	13.544	VV	483	5924	0.06%	0.003%
219	13.548	13.544	13.577	VV	297	4546	0.04%	0.002%
220	13.580	13.577	13.594	VV	195	1378	0.01%	0.001%
221	13.597	13.594	13.617	VV	126	1127	0.01%	0.001%
222	13.621	13.617	13.636	PV	156	1184	0.01%	0.001%
223	13.642	13.636	13.655	VV	295	2314	0.02%	0.001%
224	13.657	13.655	13.667	VV	320	1227	0.01%	0.001%
225	13.688	13.667	13.707	VV	385	6584	0.06%	0.003%
226	13.713	13.707	13.720	VV	375	2065	0.02%	0.001%
227	13.760	13.720	13.776	VV	463	9273	0.09%	0.004%
228	13.788	13.776	13.796	VV	381	2968	0.03%	0.001%
229	13.801	13.796	13.807	VV	365	1749	0.02%	0.001%
230	13.811	13.807	13.815	VV	367	1539	0.01%	0.001%
231	13.826	13.815	13.837	VV	587	6565	0.06%	0.003%
232	13.869	13.837	13.902	VV	1878	36177	0.34%	0.017%
233	13.908	13.902	13.915	VV	485	3250	0.03%	0.002%
234	13.919	13.915	13.934	VV	438	3758	0.04%	0.002%
235	13.940	13.934	14.012	VV	382	17155	0.16%	0.008%
236	14.033	14.012	14.052	VV	432	7333	0.07%	0.003%
237	14.067	14.052	14.078	VV	447	5509	0.05%	0.003%
238	14.085	14.078	14.105	VV	619	7334	0.07%	0.003%
239	14.111	14.105	14.117	VV	559	3365	0.03%	0.002%
240	14.132	14.117	14.137	VV	690	6708	0.06%	0.003%
241	14.156	14.137	14.164	VV	674	8016	0.08%	0.004%
242	14.167	14.164	14.173	VV	406	1856	0.02%	0.001%
243	14.194	14.173	14.214	VV	474	9586	0.09%	0.005%
244	14.222	14.214	14.229	VV	520	3538	0.03%	0.002%
245	14.235	14.229	14.239	VV	416	2379	0.02%	0.001%
246	14.243	14.239	14.262	VV	488	4644	0.04%	0.002%

rteres

247	14.287	14.262	14.294	VV	690	8547	0.08%	0.004%
248	14.300	14.294	14.309	VV	727	5752	0.05%	0.003%
249	14.315	14.309	14.321	VV	704	4011	0.04%	0.002%
250	14.326	14.321	14.332	VV	663	3639	0.03%	0.002%
251	14.338	14.332	14.359	VV	805	7951	0.07%	0.004%
252	14.374	14.359	14.379	VV	710	6675	0.06%	0.003%
253	14.382	14.379	14.402	VV	625	6411	0.06%	0.003%
254	14.438	14.402	14.456	VV	807419	9837573	92.24%	4.676%
255	14.480	14.456	14.507	VV	786236	9615926	90.16%	4.571%
256	14.525	14.507	14.674	VV	83192	1533940	14.38%	0.729%
257	14.698	14.674	14.727	VV	1824	47432	0.44%	0.023%
258	14.738	14.727	14.770	VV	1205	24157	0.23%	0.011%
259	14.773	14.770	14.790	VV	780	8300	0.08%	0.004%
260	14.807	14.790	14.817	VV	777	10555	0.10%	0.005%
261	14.834	14.817	14.843	VV	972	10798	0.10%	0.005%
262	14.849	14.843	14.863	VV	677	7364	0.07%	0.004%
263	14.903	14.863	14.970	VV	15235	283632	2.66%	0.135%
264	14.976	14.970	14.982	VV	1372	9086	0.09%	0.004%
265	14.990	14.982	15.016	VV	1529	22470	0.21%	0.011%
266	15.029	15.016	15.035	VV	942	9881	0.09%	0.005%
267	15.060	15.035	15.090	VV	2621	46533	0.44%	0.022%
268	15.105	15.090	15.122	VV	761	10668	0.10%	0.005%
269	15.125	15.122	15.156	VV	516	8200	0.08%	0.004%
270	15.169	15.156	15.175	VV	577	5206	0.05%	0.002%
271	15.178	15.175	15.202	VV	550	7725	0.07%	0.004%
272	15.208	15.202	15.214	VV	633	3812	0.04%	0.002%
273	15.242	15.214	15.257	VV	1191	20756	0.19%	0.010%
274	15.261	15.257	15.288	VV	705	8332	0.08%	0.004%
275	15.293	15.288	15.297	VV	285	1513	0.01%	0.001%
276	15.302	15.297	15.309	VV	502	2774	0.03%	0.001%
277	15.312	15.309	15.320	VV	416	2600	0.02%	0.001%
278	15.345	15.320	15.350	VV	781	10605	0.10%	0.005%
279	15.361	15.350	15.374	VV	760	9347	0.09%	0.004%
280	15.390	15.374	15.408	VV	821	13919	0.13%	0.007%
281	15.422	15.408	15.431	VV	867	10107	0.09%	0.005%
282	15.446	15.431	15.469	VV	885	16564	0.16%	0.008%
283	15.474	15.469	15.482	VV	578	4088	0.04%	0.002%
284	15.503	15.482	15.512	VV	1721	21554	0.20%	0.010%
285	15.542	15.512	15.578	VV	64394	815203	7.64%	0.387%
286	15.583	15.578	15.630	VV	917	17000	0.16%	0.008%
287	15.636	15.630	15.659	VV	238	2610	0.02%	0.001%
288	15.699	15.659	15.732	VV	1871	29386	0.28%	0.014%
289	15.737	15.732	15.742	VV	408	1762	0.02%	0.001%
290	15.749	15.742	15.784	VV	323	5502	0.05%	0.003%
291	15.794	15.784	15.799	VV	327	1956	0.02%	0.001%
292	15.806	15.799	15.834	VV	274	4040	0.04%	0.002%
293	15.854	15.834	15.867	VV	309	4156	0.04%	0.002%
294	15.915	15.878	15.950	PV	1664	34194	0.32%	0.016%
295	15.988	15.950	16.002	VV	733411	9839949	92.26%	4.677%
296	16.023	16.002	16.085	VV	801622	9987928	93.65%	4.748%
297	16.100	16.085	16.175	VV	6478	164447	1.54%	0.078%
298	16.209	16.175	16.220	VV	1580	39604	0.37%	0.019%
299	16.225	16.220	16.248	VV	1650	21318	0.20%	0.010%

rteres

300	16.266	16.248	16.305	VV	2789	48714	0.46%	0.023%
301	16.312	16.305	16.325	VV	797	8447	0.08%	0.004%
302	16.364	16.325	16.457	VV	699804	9463870	88.73%	4.498%
303	16.485	16.457	16.512	VV	65754	958399	8.99%	0.456%
304	16.528	16.512	16.587	VV	10279	190737	1.79%	0.091%
305	16.590	16.587	16.630	VV	1305	23976	0.22%	0.011%
306	16.651	16.630	16.680	VV	986	21212	0.20%	0.010%
307	16.687	16.680	16.699	VV	651	6350	0.06%	0.003%
308	16.704	16.699	16.719	VV	793	7174	0.07%	0.003%
309	16.723	16.719	16.734	VV	417	3260	0.03%	0.002%
310	16.739	16.734	16.750	VV	392	3204	0.03%	0.002%
311	16.795	16.750	16.817	VV	1419	26779	0.25%	0.013%
312	16.822	16.817	16.829	VV	368	2250	0.02%	0.001%
313	16.856	16.829	16.890	VV	1073	24292	0.23%	0.012%
314	16.935	16.890	16.968	VV	2429	46569	0.44%	0.022%
315	16.975	16.968	16.989	VV	494	4292	0.04%	0.002%
316	16.991	16.989	16.998	VV	435	2048	0.02%	0.001%
317	17.025	16.998	17.052	VV	709	14835	0.14%	0.007%
318	17.064	17.052	17.077	VV	564	5942	0.06%	0.003%
319	17.082	17.077	17.135	VV	371	8045	0.08%	0.004%
320	17.175	17.135	17.200	VV	570	14076	0.13%	0.007%
321	17.218	17.200	17.227	VV	497	6399	0.06%	0.003%
322	17.232	17.227	17.237	VV	561	2755	0.03%	0.001%
323	17.257	17.237	17.285	VV	1124	19989	0.19%	0.010%
324	17.298	17.285	17.305	VV	671	6128	0.06%	0.003%
325	17.370	17.305	17.421	VV	57411	810224	7.60%	0.385%
326	17.426	17.421	17.432	VV	378	2214	0.02%	0.001%
327	17.456	17.432	17.486	VV	2731	41462	0.39%	0.020%
328	17.493	17.486	17.508	VV	465	5265	0.05%	0.003%
329	17.517	17.508	17.522	VV	461	3206	0.03%	0.002%
330	17.528	17.522	17.542	VV	408	4093	0.04%	0.002%
331	17.569	17.542	17.594	VV	464	9621	0.09%	0.005%
332	17.620	17.594	17.627	PV	226	3085	0.03%	0.001%
333	17.634	17.627	17.642	VV	131	1265	0.01%	0.001%
334	17.660	17.642	17.677	VV	626	7186	0.07%	0.003%
335	17.734	17.677	17.747	VV	669070	9359859	87.76%	4.449%
336	17.769	17.747	17.944	VV	632255	9475979	88.85%	4.504%
337	17.986	17.944	18.152	VV	628212	9464386	88.74%	4.499%
338	18.195	18.152	18.238	VV	55558	816334	7.65%	0.388%
339	18.241	18.238	18.280	VV	751	9095	0.09%	0.004%

Sum of corrected areas: 210382375

Aromatic EPH 021125.M Sat Mar 01 04:01:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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...	12.839	3447568	30.652 ug/ml
Spiked Amount	50.000		Recovery =	61.30%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3952679	28.098 ug/ml
2) T	n-Decane (C10)	4.262	4756204	33.572 ug/ml
4) T	n-Dodecane (C12)	6.270	5217892	37.070 ug/ml
6) T	n-Tetradecane (C14)	8.059	5826405	42.733 ug/ml
7) T	n-Hexadecane (C16)	9.655	6354609	46.396 ug/ml
8) T	n-Octadecane (C18)	11.093	6605667	48.302 ug/ml
10) T	n-Eicosane (C20)	12.400	6724652	51.614 ug/ml
11) T	n-Heneicosane (C21)	13.010	6406807	50.113 ug/ml
13) T	n-Docosane (C22)	13.596	6355786	50.432 ug/ml
14) T	n-Tetracosane (C24)	14.697	6236779	50.144 ug/ml
15) T	n-Hexacosane (C26)	15.715	6107881	50.232 ug/ml
16) T	n-Octacosane (C28)	16.664	5953830	50.130 ug/ml
17) T	n-Tricontane (C30)	17.551	5974819	49.639 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5932634	51.114 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5900054	54.600 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5653625	58.789 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5491943	61.091 ug/ml
22) T	n-Tetracontane (C40)	21.472	5316432	61.447 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

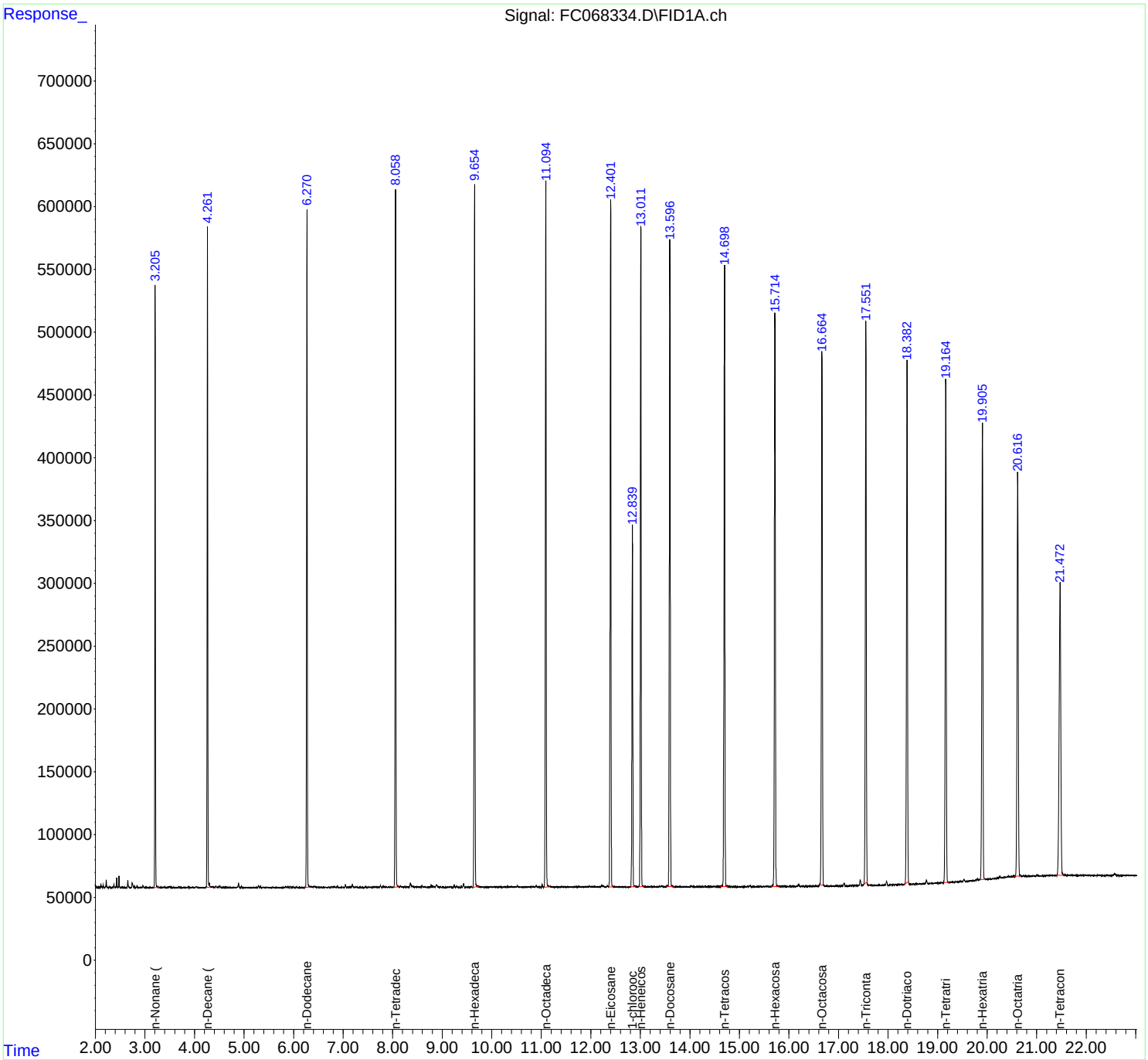
Sample Results: **FC068334.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.373	2.304	2.402	BV	2444	20177	0.30%	0.018%
2	2.430	2.402	2.454	PV	7767	67001	0.99%	0.059%
3	2.475	2.454	2.535	VV	9285	76863	1.14%	0.067%
4	2.556	2.535	2.578	VV	360	5078	0.08%	0.004%
5	2.588	2.578	2.626	VV	234	3484	0.05%	0.003%
6	2.654	2.626	2.721	PV	5970	55320	0.82%	0.048%
7	2.743	2.721	2.771	VV	3718	52504	0.78%	0.046%
8	2.786	2.771	2.820	VV	1524	17198	0.25%	0.015%
9	2.839	2.820	2.900	VV	1638	20171	0.30%	0.018%
10	2.917	2.900	2.943	VV	340	4970	0.07%	0.004%
11	2.961	2.943	2.993	VV	1652	15512	0.23%	0.014%
12	3.031	2.993	3.044	VV	298	5350	0.08%	0.005%
13	3.054	3.044	3.071	VV	147	1723	0.03%	0.002%
14	3.095	3.071	3.122	VV	221	3824	0.06%	0.003%
15	3.205	3.122	3.314	VV	476570	3974917	58.90%	3.482%
16	3.324	3.314	3.364	VV	381	7654	0.11%	0.007%
17	3.378	3.364	3.424	VV	331	9181	0.14%	0.008%
18	3.437	3.424	3.454	VV	241	3497	0.05%	0.003%
19	3.501	3.454	3.553	VV	659	21613	0.32%	0.019%
20	3.568	3.553	3.604	VV	260	4949	0.07%	0.004%
21	3.611	3.604	3.655	VV	176	3352	0.05%	0.003%
22	3.692	3.655	3.752	VV	421	11227	0.17%	0.010%
23	3.775	3.752	3.827	VV	350	7232	0.11%	0.006%
24	3.865	3.827	3.878	VV	588	8521	0.13%	0.007%
25	3.893	3.878	3.948	VV	975	13495	0.20%	0.012%
26	3.961	3.948	3.993	VV	284	4929	0.07%	0.004%
27	4.037	3.993	4.145	VV	944	27567	0.41%	0.024%
28	4.178	4.145	4.204	VV	296	6175	0.09%	0.005%
29	4.211	4.204	4.231	VV	230	2907	0.04%	0.003%
30	4.262	4.231	4.289	VV	524353	4734902	70.17%	4.148%
31	4.300	4.289	4.347	VV	3746	50768	0.75%	0.044%
32	4.364	4.347	4.390	VV	730	14752	0.22%	0.013%
33	4.428	4.390	4.448	VV	1240	21435	0.32%	0.019%
34	4.459	4.448	4.467	VV	425	4469	0.07%	0.004%
35	4.483	4.467	4.497	VV	955	11206	0.17%	0.010%
36	4.513	4.497	4.578	VV	1798	24455	0.36%	0.021%

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37	4.630	4.578	4.689	VV	247	12114	0.18%	0.011%
38	4.724	4.689	4.780	VV	273	7087	0.11%	0.006%
39	4.810	4.780	4.844	VV	250	4638	0.07%	0.004%
40	4.890	4.844	4.921	VV	3471	45773	0.68%	0.040%
41	4.946	4.921	4.962	VV	719	8954	0.13%	0.008%
42	4.973	4.962	5.018	VV	275	4329	0.06%	0.004%
43	5.081	5.018	5.101	PV	175	4452	0.07%	0.004%
44	5.115	5.101	5.153	VV	129	3282	0.05%	0.003%
45	5.163	5.153	5.223	VV	189	3688	0.05%	0.003%
46	5.258	5.223	5.269	VV	162	2711	0.04%	0.002%
47	5.292	5.269	5.312	VV	1773	19244	0.29%	0.017%
48	5.332	5.312	5.357	VV	1339	15550	0.23%	0.014%
49	5.387	5.357	5.434	VV	309	5489	0.08%	0.005%
50	5.469	5.434	5.495	VV	356	6323	0.09%	0.006%
51	5.508	5.495	5.529	VV	125	1637	0.02%	0.001%
52	5.539	5.529	5.553	VV	148	1273	0.02%	0.001%
53	5.582	5.553	5.613	VV	280	5783	0.09%	0.005%
54	5.640	5.613	5.684	VV	173	4197	0.06%	0.004%
55	5.692	5.684	5.724	VV	99	1301	0.02%	0.001%
56	5.742	5.724	5.763	PV	204	2404	0.04%	0.002%
57	5.788	5.763	5.813	VV	186	3529	0.05%	0.003%
58	5.838	5.813	5.869	VV	890	16772	0.25%	0.015%
59	5.886	5.869	5.908	VV	542	8475	0.13%	0.007%
60	5.928	5.908	5.971	VV	1047	14951	0.22%	0.013%
61	5.991	5.971	6.029	VV	703	11596	0.17%	0.010%
62	6.064	6.029	6.086	VV	368	7588	0.11%	0.007%
63	6.115	6.086	6.132	VV	274	4178	0.06%	0.004%
64	6.164	6.132	6.228	VV	275	9391	0.14%	0.008%
65	6.270	6.228	6.334	VV	539912	5241953	77.68%	4.592%
66	6.351	6.334	6.374	VV	1068	17052	0.25%	0.015%
67	6.386	6.374	6.398	VV	676	7625	0.11%	0.007%
68	6.417	6.398	6.437	VV	1487	20059	0.30%	0.018%
69	6.450	6.437	6.471	VV	584	8181	0.12%	0.007%
70	6.489	6.471	6.538	VV	752	13429	0.20%	0.012%
71	6.552	6.538	6.568	VV	277	4003	0.06%	0.004%
72	6.587	6.568	6.611	VV	313	5879	0.09%	0.005%
73	6.622	6.611	6.641	VV	243	3682	0.05%	0.003%
74	6.655	6.641	6.684	VV	227	4481	0.07%	0.004%
75	6.708	6.684	6.736	VV	664	9075	0.13%	0.008%
76	6.762	6.736	6.796	VV	830	16423	0.24%	0.014%
77	6.824	6.796	6.854	VV	741	16164	0.24%	0.014%
78	6.887	6.854	6.914	VV	1061	19526	0.29%	0.017%
79	6.925	6.914	6.947	VV	306	4357	0.06%	0.004%
80	6.988	6.947	7.008	VV	329	7764	0.12%	0.007%
81	7.048	7.008	7.095	VV	2381	30341	0.45%	0.027%
82	7.108	7.095	7.138	VV	366	7191	0.11%	0.006%
83	7.155	7.138	7.167	VV	499	5849	0.09%	0.005%
84	7.188	7.167	7.213	VV	2579	30661	0.45%	0.027%
85	7.221	7.213	7.233	VV	260	2957	0.04%	0.003%
86	7.248	7.233	7.266	VV	418	6511	0.10%	0.006%
87	7.279	7.266	7.333	VV	619	10000	0.15%	0.009%
88	7.355	7.333	7.391	VV	242	6015	0.09%	0.005%
89	7.395	7.391	7.414	VV	190	1628	0.02%	0.001%

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90	7.448	7.414	7.478	VV	1037	13385	0.20%	0.012%
91	7.525	7.478	7.574	VV	321	11619	0.17%	0.010%
92	7.611	7.574	7.627	VV	353	8205	0.12%	0.007%
93	7.648	7.627	7.688	VV	402	10387	0.15%	0.009%
94	7.709	7.688	7.734	VV	486	7961	0.12%	0.007%
95	7.753	7.734	7.778	VV	1583	19335	0.29%	0.017%
96	7.809	7.778	7.834	VV	1594	21359	0.32%	0.019%
97	7.846	7.834	7.864	VV	354	4886	0.07%	0.004%
98	7.879	7.864	7.891	VV	423	4829	0.07%	0.004%
99	7.908	7.891	7.934	VV	361	6444	0.10%	0.006%
100	7.962	7.934	8.004	VV	856	13217	0.20%	0.012%
101	8.059	8.004	8.134	VV	554409	5855976	86.78%	5.130%
102	8.154	8.134	8.190	VV	891	22636	0.34%	0.020%
103	8.203	8.190	8.222	VV	574	8596	0.13%	0.008%
104	8.250	8.222	8.269	VV	624	10991	0.16%	0.010%
105	8.287	8.269	8.328	VV	613	10178	0.15%	0.009%
106	8.358	8.328	8.438	VV	3538	79437	1.18%	0.070%
107	8.449	8.438	8.464	VV	483	7244	0.11%	0.006%
108	8.474	8.464	8.488	VV	607	6830	0.10%	0.006%
109	8.516	8.488	8.531	VV	612	13038	0.19%	0.011%
110	8.544	8.531	8.558	VV	691	8906	0.13%	0.008%
111	8.592	8.558	8.631	VV	1119	27569	0.41%	0.024%
112	8.654	8.631	8.687	VV	452	9010	0.13%	0.008%
113	8.707	8.687	8.725	VV	426	6259	0.09%	0.005%
114	8.745	8.725	8.753	VV	313	3931	0.06%	0.003%
115	8.776	8.753	8.796	VV	1501	20657	0.31%	0.018%
116	8.812	8.796	8.825	VV	888	11876	0.18%	0.010%
117	8.833	8.825	8.854	VV	679	10088	0.15%	0.009%
118	8.887	8.854	8.943	VV	2096	46575	0.69%	0.041%
119	8.962	8.943	8.989	VV	596	8314	0.12%	0.007%
120	9.011	8.989	9.037	PV	415	5547	0.08%	0.005%
121	9.131	9.037	9.145	VV	387	13254	0.20%	0.012%
122	9.174	9.145	9.221	VV	781	15428	0.23%	0.014%
123	9.245	9.221	9.273	VV	1372	22829	0.34%	0.020%
124	9.294	9.273	9.322	VV	889	12552	0.19%	0.011%
125	9.334	9.322	9.354	VV	263	3002	0.04%	0.003%
126	9.388	9.354	9.408	VV	903	13561	0.20%	0.012%
127	9.432	9.408	9.473	VV	3048	36278	0.54%	0.032%
128	9.490	9.473	9.508	PV	253	2752	0.04%	0.002%
129	9.522	9.508	9.535	VV	181	2184	0.03%	0.002%
130	9.576	9.535	9.609	VV	648	15373	0.23%	0.013%
131	9.655	9.609	9.766	VV	558718	6394144	94.75%	5.602%
132	9.773	9.766	9.864	VV	389	14407	0.21%	0.013%
133	9.931	9.864	9.948	VV	308	7356	0.11%	0.006%
134	9.969	9.948	9.990	VV	302	6115	0.09%	0.005%
135	10.045	9.990	10.064	VV	472	12862	0.19%	0.011%
136	10.081	10.064	10.102	VV	363	6588	0.10%	0.006%
137	10.129	10.102	10.151	VV	338	6987	0.10%	0.006%
138	10.159	10.151	10.180	VV	290	3147	0.05%	0.003%
139	10.191	10.180	10.197	VV	128	1121	0.02%	0.001%
140	10.205	10.197	10.211	VV	152	1028	0.02%	0.001%
141	10.250	10.211	10.265	VV	389	7571	0.11%	0.007%

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142	10.275	10.265	10.303	VV	376	6423	0.10%	0.006%
143	10.322	10.303	10.348	VV	577	10901	0.16%	0.010%
144	10.391	10.348	10.423	VV	743	18152	0.27%	0.016%
145	10.443	10.423	10.458	VV	366	5798	0.09%	0.005%
146	10.476	10.458	10.488	VV	430	6016	0.09%	0.005%
147	10.515	10.488	10.548	VV	1041	19254	0.29%	0.017%
148	10.604	10.584	10.658	VV	273	7646	0.11%	0.007%
149	10.675	10.658	10.683	VV	257	2854	0.04%	0.003%
150	10.714	10.683	10.741	VV	436	9433	0.14%	0.008%
151	10.761	10.741	10.794	VV	411	9576	0.14%	0.008%
152	10.811	10.794	10.831	VV	557	8515	0.13%	0.007%
153	10.844	10.831	10.862	VV	342	3978	0.06%	0.003%
154	10.894	10.862	10.940	VV	1481	20511	0.30%	0.018%
155	10.947	10.940	10.978	VV	104	1539	0.02%	0.001%
156	11.021	10.978	11.054	VV	1735	24417	0.36%	0.021%
157	11.093	11.054	11.168	VV	565923	6625320	98.18%	5.804%
158	11.182	11.168	11.231	VV	720	14671	0.22%	0.013%
159	11.241	11.231	11.261	VV	192	2557	0.04%	0.002%
160	11.273	11.261	11.288	VV	173	1837	0.03%	0.002%
161	11.318	11.288	11.348	VV	209	5178	0.08%	0.005%
162	11.354	11.348	11.368	VV	85	1004	0.01%	0.001%
163	11.398	11.368	11.435	VV	297	9104	0.13%	0.008%
164	11.450	11.435	11.460	VV	333	3793	0.06%	0.003%
165	11.477	11.460	11.519	VV	415	10036	0.15%	0.009%
166	11.556	11.519	11.602	VV	414	11078	0.16%	0.010%
167	11.609	11.602	11.618	VV	109	953	0.01%	0.001%
168	11.752	11.618	11.781	VV	588	31644	0.47%	0.028%
169	11.800	11.781	11.831	VV	366	7504	0.11%	0.007%
170	11.848	11.831	11.864	VV	282	4549	0.07%	0.004%
171	11.893	11.864	11.938	VV	424	11070	0.16%	0.010%
172	11.973	11.938	12.009	VV	753	21641	0.32%	0.019%
173	12.030	12.009	12.052	VV	621	10594	0.16%	0.009%
174	12.070	12.052	12.085	VV	610	9008	0.13%	0.008%
175	12.093	12.085	12.132	VV	338	6661	0.10%	0.006%
176	12.222	12.132	12.245	VV	1915	41265	0.61%	0.036%
177	12.260	12.245	12.302	VV	961	14054	0.21%	0.012%
178	12.336	12.302	12.359	VV	1377	18443	0.27%	0.016%
179	12.400	12.359	12.498	VV	550415	6748141	100.00%	5.912%
180	12.508	12.498	12.628	VV	306	11917	0.18%	0.010%
181	12.653	12.628	12.664	PV	184	2976	0.04%	0.003%
182	12.672	12.664	12.738	VV	191	5818	0.09%	0.005%
183	12.839	12.738	12.931	VV	286432	3481931	51.60%	3.050%
184	12.953	12.931	12.969	VV	428	8655	0.13%	0.008%
185	13.010	12.969	13.178	VV	526070	6448726	95.56%	5.649%
186	13.208	13.178	13.240	VV	376	10702	0.16%	0.009%
187	13.283	13.240	13.324	VV	471	15893	0.24%	0.014%
188	13.347	13.324	13.364	VV	296	5459	0.08%	0.005%
189	13.384	13.364	13.407	VV	696	11042	0.16%	0.010%
190	13.435	13.407	13.484	VV	1046	21956	0.33%	0.019%
191	13.498	13.484	13.513	VV	276	3937	0.06%	0.003%
192	13.539	13.513	13.556	VV	1419	19411	0.29%	0.017%
193	13.596	13.556	13.688	VV	513366	6381544	94.57%	5.590%
194	13.698	13.688	13.705	VV	257	2361	0.03%	0.002%

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195	13.715	13.705	13.750	VV	301	5196	0.08%	0.005%
196	13.769	13.750	13.791	VV	195	3768	0.06%	0.003%
197	13.806	13.791	13.833	VV	207	4647	0.07%	0.004%
198	13.847	13.833	13.861	VV	198	2753	0.04%	0.002%
199	13.865	13.861	13.908	VV	163	3524	0.05%	0.003%
200	13.930	13.908	13.969	VV	201	4815	0.07%	0.004%
201	13.977	13.969	13.987	VV	121	1041	0.02%	0.001%
202	14.030	13.987	14.108	VV	938	23520	0.35%	0.021%
203	14.119	14.108	14.130	VV	191	1931	0.03%	0.002%
204	14.153	14.130	14.198	VV	516	10405	0.15%	0.009%
205	14.297	14.198	14.368	VV	343	24148	0.36%	0.021%
206	14.397	14.368	14.424	VV	347	8382	0.12%	0.007%
207	14.462	14.424	14.489	VV	351	9124	0.14%	0.008%
208	14.504	14.489	14.521	VV	310	4445	0.07%	0.004%
209	14.545	14.521	14.574	VV	400	7327	0.11%	0.006%
210	14.594	14.574	14.611	VV	242	4170	0.06%	0.004%
211	14.648	14.611	14.657	VV	1188	15313	0.23%	0.013%
212	14.697	14.657	14.824	VV	489965	6246308	92.56%	5.472%
213	14.833	14.824	14.849	VV	140	1753	0.03%	0.002%
214	14.862	14.849	14.922	VV	195	6292	0.09%	0.006%
215	14.930	14.922	14.994	VV	168	4066	0.06%	0.004%
216	15.001	14.994	15.014	VV	75	973	0.01%	0.001%
217	15.024	15.014	15.065	VV	107	2267	0.03%	0.002%
218	15.075	15.065	15.090	VV	130	1445	0.02%	0.001%
219	15.122	15.090	15.136	VV	168	3329	0.05%	0.003%
220	15.212	15.136	15.294	VV	1180	24519	0.36%	0.021%
221	15.354	15.294	15.378	PV	196	5498	0.08%	0.005%
222	15.392	15.378	15.402	VV	164	2044	0.03%	0.002%
223	15.411	15.402	15.468	VV	199	5159	0.08%	0.005%
224	15.567	15.468	15.594	VV	304	13518	0.20%	0.012%
225	15.602	15.594	15.638	VV	178	2874	0.04%	0.003%
226	15.715	15.638	15.874	VV	453709	6127369	90.80%	5.368%
227	15.896	15.874	15.998	VV	161	4903	0.07%	0.004%
228	16.034	15.998	16.058	VV	154	2482	0.04%	0.002%
229	16.065	16.058	16.082	VV	94	878	0.01%	0.001%
230	16.105	16.082	16.141	PV	121	2159	0.03%	0.002%
231	16.159	16.141	16.168	VV	188	1698	0.03%	0.001%
232	16.194	16.168	16.254	VV	1679	25892	0.38%	0.023%
233	16.271	16.254	16.306	VV	270	3955	0.06%	0.003%
234	16.317	16.306	16.331	VV	96	762	0.01%	0.001%
235	16.358	16.331	16.374	VV	229	3509	0.05%	0.003%
236	16.390	16.374	16.434	VV	143	5100	0.08%	0.004%
237	16.442	16.434	16.466	VV	174	2263	0.03%	0.002%
238	16.501	16.466	16.518	VV	188	3685	0.05%	0.003%
239	16.545	16.518	16.598	VV	425	13351	0.20%	0.012%
240	16.664	16.598	16.734	VV	424710	6019424	89.20%	5.273%
241	16.745	16.734	16.788	VV	326	7647	0.11%	0.007%
242	16.795	16.788	16.852	VV	202	4824	0.07%	0.004%
243	16.867	16.852	16.916	VV	103	2253	0.03%	0.002%
244	16.922	16.916	16.927	VV	71	350	0.01%	0.000%
245	16.955	16.927	16.978	VV	290	4629	0.07%	0.004%
246	17.010	16.978	17.028	VV	202	3878	0.06%	0.003%

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247	17.041	17.028	17.068	VV	173	2364	0.04%	0.002%
248	17.111	17.068	17.174	VV	2404	39025	0.58%	0.034%
249	17.336	17.174	17.368	PV	275	20619	0.31%	0.018%
250	17.387	17.368	17.401	VV	272	3524	0.05%	0.003%
251	17.437	17.401	17.475	VV	4691	71943	1.07%	0.063%
252	17.551	17.475	17.619	VV	449116	6077453	90.06%	5.324%
253	17.641	17.619	17.662	VV	447	9996	0.15%	0.009%
254	17.672	17.662	17.714	VV	282	6932	0.10%	0.006%
255	17.731	17.714	17.774	VV	226	3697	0.05%	0.003%
256	17.826	17.774	17.890	PV	320	10337	0.15%	0.009%
257	17.898	17.890	17.906	VV	120	576	0.01%	0.001%
258	17.968	17.906	18.008	PV	3186	48425	0.72%	0.042%
259	18.055	18.008	18.076	VV	133	3080	0.05%	0.003%
260	18.234	18.076	18.250	VV	270	7745	0.11%	0.007%
261	18.266	18.250	18.313	VV	261	4615	0.07%	0.004%
262	18.382	18.313	18.454	PV	413964	6001712	88.94%	5.258%
263	18.507	18.454	18.521	VV	208	5479	0.08%	0.005%
264	18.537	18.521	18.564	VV	182	3281	0.05%	0.003%
265	18.592	18.564	18.604	VV	185	2248	0.03%	0.002%
266	18.633	18.604	18.654	VV	166	3189	0.05%	0.003%
267	18.685	18.654	18.696	VV	99	1632	0.02%	0.001%
268	18.775	18.696	18.808	PV	2910	42936	0.64%	0.038%
269	18.834	18.808	18.874	VV	109	2129	0.03%	0.002%
270	18.961	18.874	18.988	PV	189	6398	0.09%	0.006%
271	19.089	18.988	19.101	VV	250	10181	0.15%	0.009%
272	19.164	19.101	19.253	VV	397589	5928806	87.86%	5.194%
273	19.268	19.253	19.291	VV	393	7503	0.11%	0.007%
274	19.321	19.291	19.364	VV	466	15140	0.22%	0.013%
275	19.471	19.364	19.497	VV	555	31946	0.47%	0.028%
276	19.533	19.497	19.581	VV	1963	43177	0.64%	0.038%
277	19.803	19.581	19.834	VV	1730	120045	1.78%	0.105%
278	19.904	19.834	20.010	VV	361310	5791003	85.82%	5.073%
279	20.021	20.010	20.031	VV	1425	16738	0.25%	0.015%
280	20.255	20.031	20.298	VV	3227	276042	4.09%	0.242%
281	20.431	20.298	20.461	VV	2745	223985	3.32%	0.196%
282	20.475	20.461	20.491	VV	2507	44379	0.66%	0.039%
283	20.616	20.491	20.758	VV	321083	5896031	87.37%	5.165%
284	20.774	20.758	20.812	VV	2369	74617	1.11%	0.065%
285	20.819	20.812	20.828	VV	2218	20610	0.31%	0.018%
286	20.937	20.828	20.968	VV	2225	179546	2.66%	0.157%
287	21.009	20.968	21.049	VV	2645	108714	1.61%	0.095%
288	21.056	21.049	21.072	VV	1873	25754	0.38%	0.023%
289	21.285	21.072	21.298	VV	1863	243309	3.61%	0.213%
290	21.308	21.298	21.320	VV	1825	23251	0.34%	0.020%
291	21.352	21.320	21.361	VV	1736	41635	0.62%	0.036%
292	21.370	21.361	21.381	VV	1619	19867	0.29%	0.017%
293	21.388	21.381	21.395	VV	1626	13279	0.20%	0.012%
294	21.472	21.395	21.628	VV	232470	5539153	82.08%	4.853%
295	21.639	21.628	21.651	VV	1287	17310	0.26%	0.015%
296	21.670	21.651	21.690	VV	1291	28053	0.42%	0.025%
297	21.709	21.690	21.737	VV	1183	31107	0.46%	0.027%
298	21.772	21.737	21.878	VV	1053	77020	1.14%	0.067%
299	21.901	21.878	21.915	VV	749	15281	0.23%	0.013%

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300	21.922	21.915	21.931	VV	654	5922	0.09%	0.005%
301	21.973	21.931	22.041	VV	779	39999	0.59%	0.035%
302	22.055	22.041	22.083	VV	455	8809	0.13%	0.008%
303	22.094	22.083	22.104	VV	307	3505	0.05%	0.003%
304	22.113	22.104	22.147	VV	325	5060	0.07%	0.004%
305	22.162	22.147	22.181	VV	91	1266	0.02%	0.001%

Sum of corrected areas: 114150106

Aliphatic EPH 021125.M Sat Mar 01 01:30:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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...	12.838	3629508	32.270 ug/ml
Spiked Amount	50.000		Recovery =	64.54%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3943747	28.034 ug/ml
2) T	n-Decane (C10)	4.261	4754624	33.561 ug/ml
4) T	n-Dodecane (C12)	6.270	5235120	37.192 ug/ml
6) T	n-Tetradecane (C14)	8.059	5850328	42.909 ug/ml
7) T	n-Hexadecane (C16)	9.655	6391300	46.664 ug/ml
8) T	n-Octadecane (C18)	11.093	6650779	48.632 ug/ml
10) T	n-Eicosane (C20)	12.400	6773133	51.986 ug/ml
11) T	n-Heneicosane (C21)	13.010	6452700	50.472 ug/ml
13) T	n-Docosane (C22)	13.595	6400679	50.788 ug/ml
14) T	n-Tetracosane (C24)	14.696	6277459	50.471 ug/ml
15) T	n-Hexacosane (C26)	15.715	6147591	50.559 ug/ml
16) T	n-Octacosane (C28)	16.664	5996760	50.492 ug/ml
17) T	n-Tricontane (C30)	17.551	6013877	49.963 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5975842	51.486 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5937717	54.949 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5683975	59.104 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5522915	61.436 ug/ml
22) T	n-Tetracontane (C40)	21.469	5359281	61.942 ug/ml

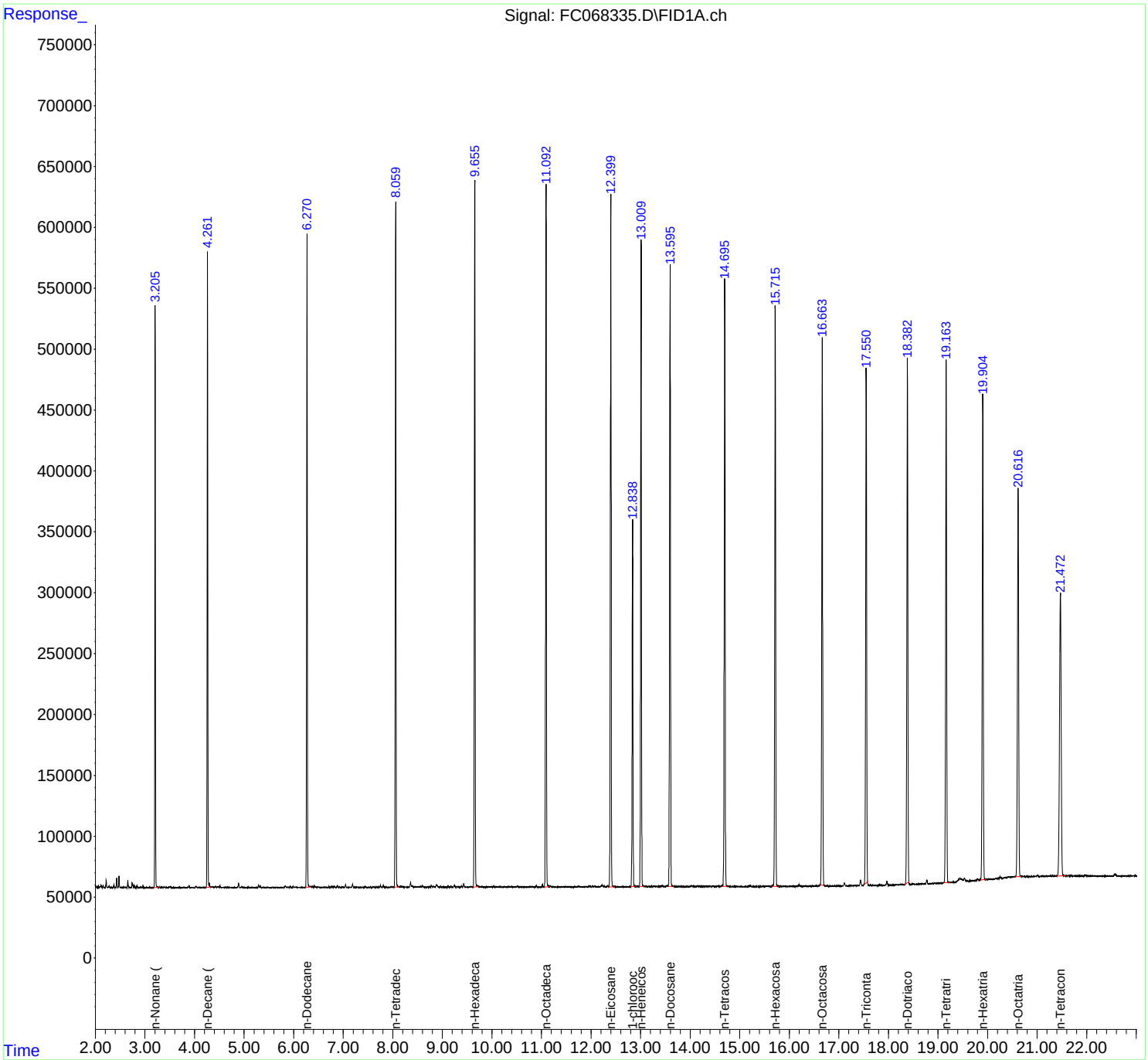
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 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\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.373	2.344	2.404	PV	2502	22211	0.33%	0.019%
2	2.429	2.404	2.453	VV	7877	67361	0.99%	0.058%
3	2.475	2.453	2.515	VV	9409	77635	1.14%	0.067%
4	2.525	2.515	2.536	VV	170	1245	0.02%	0.001%
5	2.557	2.536	2.575	PV	406	4865	0.07%	0.004%
6	2.591	2.575	2.624	VV	320	4153	0.06%	0.004%
7	2.653	2.624	2.716	VV	5738	54584	0.80%	0.047%
8	2.742	2.716	2.770	VV	3670	51262	0.75%	0.044%
9	2.786	2.770	2.819	VV	1528	16974	0.25%	0.015%
10	2.838	2.819	2.868	VV	1723	16588	0.24%	0.014%
11	2.917	2.868	2.944	VV	307	7449	0.11%	0.006%
12	2.960	2.944	3.006	VV	1641	15916	0.23%	0.014%
13	3.030	3.006	3.080	VV	276	5287	0.08%	0.005%
14	3.100	3.080	3.144	VV	212	3993	0.06%	0.003%
15	3.205	3.144	3.278	VV	474671	3957131	58.18%	3.433%
16	3.297	3.278	3.311	VV	378	5675	0.08%	0.005%
17	3.325	3.311	3.341	VV	402	5717	0.08%	0.005%
18	3.347	3.341	3.362	VV	269	3064	0.05%	0.003%
19	3.379	3.362	3.390	VV	341	4125	0.06%	0.004%
20	3.400	3.390	3.426	VV	265	4317	0.06%	0.004%
21	3.437	3.426	3.449	VV	243	2333	0.03%	0.002%
22	3.479	3.449	3.486	VV	429	6373	0.09%	0.006%
23	3.500	3.486	3.557	VV	642	13665	0.20%	0.012%
24	3.572	3.557	3.594	VV	260	3022	0.04%	0.003%
25	3.606	3.594	3.624	VV	188	2006	0.03%	0.002%
26	3.631	3.624	3.652	VV	188	1532	0.02%	0.001%
27	3.693	3.652	3.726	VV	330	6919	0.10%	0.006%
28	3.735	3.726	3.753	VV	129	1522	0.02%	0.001%
29	3.773	3.753	3.827	PV	316	5781	0.09%	0.005%
30	3.865	3.827	3.878	VV	528	7061	0.10%	0.006%
31	3.893	3.878	3.944	VV	949	12529	0.18%	0.011%
32	3.958	3.944	3.981	VV	257	2886	0.04%	0.003%
33	4.036	3.981	4.068	VV	924	19293	0.28%	0.017%
34	4.081	4.068	4.124	VV	267	5657	0.08%	0.005%
35	4.128	4.124	4.155	VV	116	1860	0.03%	0.002%
36	4.187	4.155	4.231	VV	184	6637	0.10%	0.006%

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37	4.261	4.231	4.289	VV	520982	4732885	69.59%	4.106%
38	4.300	4.289	4.346	VV	3590	48323	0.71%	0.042%
39	4.362	4.346	4.391	VV	749	14126	0.21%	0.012%
40	4.428	4.391	4.468	VV	1340	26822	0.39%	0.023%
41	4.483	4.468	4.497	VV	1118	12023	0.18%	0.010%
42	4.513	4.497	4.554	VV	1695	21407	0.31%	0.019%
43	4.578	4.554	4.611	VV	238	6809	0.10%	0.006%
44	4.615	4.611	4.621	VV	255	1175	0.02%	0.001%
45	4.633	4.621	4.652	VV	221	3729	0.05%	0.003%
46	4.674	4.652	4.690	VV	235	4007	0.06%	0.003%
47	4.723	4.690	4.761	VV	284	5991	0.09%	0.005%
48	4.810	4.761	4.840	VV	356	5885	0.09%	0.005%
49	4.890	4.840	4.922	VV	3510	46198	0.68%	0.040%
50	4.945	4.922	4.962	VV	661	8349	0.12%	0.007%
51	4.972	4.962	5.054	VV	290	5251	0.08%	0.005%
52	5.078	5.054	5.103	VV	162	2912	0.04%	0.003%
53	5.165	5.103	5.231	VV	223	8730	0.13%	0.008%
54	5.242	5.231	5.249	VV	121	700	0.01%	0.001%
55	5.291	5.249	5.311	VV	1788	20915	0.31%	0.018%
56	5.331	5.311	5.371	VV	1245	16633	0.24%	0.014%
57	5.388	5.371	5.435	VV	278	5352	0.08%	0.005%
58	5.473	5.435	5.499	VV	288	6297	0.09%	0.005%
59	5.535	5.499	5.554	VV	121	2147	0.03%	0.002%
60	5.572	5.554	5.611	PV	295	6050	0.09%	0.005%
61	5.621	5.611	5.647	VV	236	3400	0.05%	0.003%
62	5.660	5.647	5.691	VV	214	3348	0.05%	0.003%
63	5.698	5.691	5.724	VV	131	1437	0.02%	0.001%
64	5.744	5.724	5.778	PV	169	3011	0.04%	0.003%
65	5.793	5.778	5.804	VV	225	2519	0.04%	0.002%
66	5.831	5.804	5.865	VV	1155	23002	0.34%	0.020%
67	5.885	5.865	5.908	VV	585	8183	0.12%	0.007%
68	5.929	5.908	5.962	VV	1083	14937	0.22%	0.013%
69	5.990	5.962	6.033	VV	704	14474	0.21%	0.013%
70	6.060	6.033	6.098	VV	379	9625	0.14%	0.008%
71	6.107	6.098	6.134	VV	182	2833	0.04%	0.002%
72	6.155	6.134	6.172	VV	270	4197	0.06%	0.004%
73	6.190	6.172	6.211	VV	204	3469	0.05%	0.003%
74	6.270	6.211	6.334	VV	535855	5258275	77.32%	4.562%
75	6.351	6.334	6.371	VV	1065	17085	0.25%	0.015%
76	6.386	6.371	6.399	VV	729	9657	0.14%	0.008%
77	6.416	6.399	6.438	VV	1453	18789	0.28%	0.016%
78	6.449	6.438	6.470	VV	588	7170	0.11%	0.006%
79	6.488	6.470	6.571	VV	688	16097	0.24%	0.014%
80	6.585	6.571	6.614	VV	326	5691	0.08%	0.005%
81	6.629	6.614	6.638	VV	240	3112	0.05%	0.003%
82	6.655	6.638	6.688	VV	277	5352	0.08%	0.005%
83	6.709	6.688	6.738	VV	607	8549	0.13%	0.007%
84	6.761	6.738	6.798	VV	813	16805	0.25%	0.015%
85	6.824	6.798	6.848	VV	682	14119	0.21%	0.012%
86	6.887	6.848	6.915	VV	1123	19849	0.29%	0.017%
87	6.925	6.915	6.951	VV	352	4582	0.07%	0.004%
88	6.966	6.951	6.980	VV	305	3964	0.06%	0.003%
89	6.991	6.980	7.020	VV	276	4092	0.06%	0.004%

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90	7.047	7.020	7.078	VV	2375	26454	0.39%	0.023%
91	7.115	7.078	7.141	VV	367	8903	0.13%	0.008%
92	7.154	7.141	7.166	VV	441	4874	0.07%	0.004%
93	7.189	7.166	7.216	VV	2638	31866	0.47%	0.028%
94	7.224	7.216	7.234	VV	278	2586	0.04%	0.002%
95	7.250	7.234	7.268	VV	453	6250	0.09%	0.005%
96	7.279	7.268	7.317	VV	531	7199	0.11%	0.006%
97	7.348	7.317	7.375	VV	228	4627	0.07%	0.004%
98	7.391	7.375	7.423	PV	165	2087	0.03%	0.002%
99	7.449	7.423	7.484	VV	949	12597	0.19%	0.011%
100	7.547	7.484	7.568	VV	253	7576	0.11%	0.007%
101	7.608	7.568	7.630	VV	363	7775	0.11%	0.007%
102	7.668	7.630	7.691	VV	350	8551	0.13%	0.007%
103	7.708	7.691	7.726	VV	435	5500	0.08%	0.005%
104	7.753	7.726	7.776	VV	1610	19006	0.28%	0.016%
105	7.808	7.776	7.830	VV	1612	19530	0.29%	0.017%
106	7.848	7.830	7.863	VV	276	4150	0.06%	0.004%
107	7.878	7.863	7.897	VV	337	4135	0.06%	0.004%
108	7.911	7.897	7.938	VV	306	3742	0.06%	0.003%
109	7.963	7.938	8.024	VV	838	13975	0.21%	0.012%
110	8.059	8.024	8.133	VV	558311	5876988	86.41%	5.099%
111	8.154	8.133	8.198	VV	875	25997	0.38%	0.023%
112	8.205	8.198	8.226	VV	575	7138	0.10%	0.006%
113	8.248	8.226	8.268	VV	590	9697	0.14%	0.008%
114	8.287	8.268	8.331	VV	538	8809	0.13%	0.008%
115	8.358	8.331	8.448	VV	3666	80620	1.19%	0.070%
116	8.471	8.448	8.490	VV	544	11910	0.18%	0.010%
117	8.511	8.490	8.530	VV	656	12138	0.18%	0.011%
118	8.544	8.530	8.578	VV	589	12179	0.18%	0.011%
119	8.592	8.578	8.632	VV	1154	20881	0.31%	0.018%
120	8.653	8.632	8.688	VV	335	6768	0.10%	0.006%
121	8.708	8.688	8.731	VV	420	6134	0.09%	0.005%
122	8.777	8.731	8.796	VV	1474	23554	0.35%	0.020%
123	8.812	8.796	8.824	VV	922	11440	0.17%	0.010%
124	8.833	8.824	8.855	VV	648	9998	0.15%	0.009%
125	8.888	8.855	8.948	VV	2152	49076	0.72%	0.043%
126	8.963	8.948	8.985	VV	562	7555	0.11%	0.007%
127	9.011	8.985	9.043	VV	513	8303	0.12%	0.007%
128	9.065	9.043	9.077	VV	312	4013	0.06%	0.003%
129	9.122	9.077	9.147	VV	426	13195	0.19%	0.011%
130	9.174	9.147	9.218	VV	831	15325	0.23%	0.013%
131	9.244	9.218	9.274	VV	1474	24426	0.36%	0.021%
132	9.293	9.274	9.328	VV	955	14652	0.22%	0.013%
133	9.336	9.328	9.354	VV	327	3858	0.06%	0.003%
134	9.388	9.354	9.411	VV	880	16117	0.24%	0.014%
135	9.432	9.411	9.472	VV	3042	38078	0.56%	0.033%
136	9.491	9.472	9.531	VV	304	6325	0.09%	0.005%
137	9.542	9.531	9.547	VV	217	1821	0.03%	0.002%
138	9.577	9.547	9.616	VV	637	14876	0.22%	0.013%
139	9.655	9.616	9.809	VV	582924	6443012	94.74%	5.590%
140	9.816	9.809	9.902	VV	371	11880	0.17%	0.010%
141	9.932	9.902	9.945	VV	231	4935	0.07%	0.004%

rteres

142	9.965	9.945	9.991	VV	405	7626	0.11%	0.007%
143	10.045	9.991	10.064	VV	552	15043	0.22%	0.013%
144	10.075	10.064	10.104	VV	466	7552	0.11%	0.007%
145	10.132	10.104	10.194	VV	328	11990	0.18%	0.010%
146	10.249	10.194	10.267	VV	378	9371	0.14%	0.008%
147	10.285	10.267	10.301	VV	424	5946	0.09%	0.005%
148	10.321	10.301	10.351	VV	538	11450	0.17%	0.010%
149	10.392	10.351	10.425	VV	663	17716	0.26%	0.015%
150	10.441	10.425	10.458	VV	425	6043	0.09%	0.005%
151	10.469	10.458	10.488	VV	358	5477	0.08%	0.005%
152	10.516	10.488	10.545	VV	1026	18038	0.27%	0.016%
153	10.557	10.545	10.585	VV	286	5213	0.08%	0.005%
154	10.603	10.585	10.621	VV	252	4261	0.06%	0.004%
155	10.640	10.621	10.660	VV	196	3528	0.05%	0.003%
156	10.712	10.660	10.734	VV	336	8930	0.13%	0.008%
157	10.761	10.734	10.790	VV	365	8910	0.13%	0.008%
158	10.811	10.790	10.861	VV	589	10956	0.16%	0.010%
159	10.894	10.861	10.931	VV	1419	18488	0.27%	0.016%
160	10.967	10.931	10.991	VV	138	2181	0.03%	0.002%
161	11.021	10.991	11.050	PV	1872	24243	0.36%	0.021%
162	11.093	11.050	11.170	VV	580810	6671816	98.10%	5.788%
163	11.182	11.170	11.223	VV	750	13273	0.20%	0.012%
164	11.244	11.223	11.260	VV	195	3616	0.05%	0.003%
165	11.285	11.260	11.358	VV	237	8007	0.12%	0.007%
166	11.404	11.358	11.455	VV	302	12323	0.18%	0.011%
167	11.478	11.455	11.528	VV	482	11270	0.17%	0.010%
168	11.549	11.528	11.594	VV	342	9367	0.14%	0.008%
169	11.610	11.594	11.634	VV	111	2326	0.03%	0.002%
170	11.751	11.634	11.784	VV	660	27357	0.40%	0.024%
171	11.798	11.784	11.824	VV	370	5560	0.08%	0.005%
172	11.846	11.824	11.874	VV	231	5481	0.08%	0.005%
173	11.894	11.874	11.930	VV	331	9067	0.13%	0.008%
174	11.971	11.930	12.009	VV	757	21949	0.32%	0.019%
175	12.029	12.009	12.052	VV	682	11399	0.17%	0.010%
176	12.070	12.052	12.138	VV	475	15630	0.23%	0.014%
177	12.221	12.138	12.311	VV	1844	54129	0.80%	0.047%
178	12.336	12.311	12.357	VV	1213	16281	0.24%	0.014%
179	12.399	12.357	12.594	VV	561865	6800978	100.00%	5.900%
180	12.601	12.594	12.624	VV	70	1366	0.02%	0.001%
181	12.673	12.624	12.704	VV	234	7163	0.11%	0.006%
182	12.717	12.704	12.735	VV	236	2291	0.03%	0.002%
183	12.838	12.735	12.931	VV	302568	3667462	53.93%	3.182%
184	12.948	12.931	12.963	VV	456	7614	0.11%	0.007%
185	13.010	12.963	13.168	VV	539095	6502462	95.61%	5.641%
186	13.211	13.168	13.244	VV	404	14956	0.22%	0.013%
187	13.282	13.244	13.327	VV	521	19259	0.28%	0.017%
188	13.384	13.327	13.408	VV	779	19983	0.29%	0.017%
189	13.435	13.408	13.478	VV	1176	24907	0.37%	0.022%
190	13.539	13.478	13.558	VV	1500	28138	0.41%	0.024%
191	13.595	13.558	13.764	VV	509448	6446362	94.79%	5.593%
192	13.837	13.764	13.871	VV	327	15756	0.23%	0.014%
193	13.884	13.871	13.899	VV	270	3904	0.06%	0.003%
194	13.918	13.899	13.950	VV	244	6452	0.09%	0.006%

rteres

195	14.028	13.950	14.128	VV	1094	37948	0.56%	0.033%
196	14.153	14.128	14.184	VV	577	12358	0.18%	0.011%
197	14.211	14.184	14.229	VV	335	6566	0.10%	0.006%
198	14.300	14.229	14.373	VV	432	27150	0.40%	0.024%
199	14.396	14.373	14.437	VV	321	11353	0.17%	0.010%
200	14.464	14.437	14.520	VV	340	14734	0.22%	0.013%
201	14.544	14.520	14.571	VV	389	8453	0.12%	0.007%
202	14.592	14.571	14.616	VV	367	6038	0.09%	0.005%
203	14.696	14.616	14.824	VV	491177	6311101	92.80%	5.475%
204	14.866	14.824	14.924	VV	317	9873	0.15%	0.009%
205	14.950	14.924	14.991	PV	199	5316	0.08%	0.005%
206	15.002	14.991	15.031	VV	154	2035	0.03%	0.002%
207	15.076	15.031	15.088	VV	166	2453	0.04%	0.002%
208	15.114	15.088	15.154	VV	176	4085	0.06%	0.004%
209	15.211	15.154	15.247	VV	1181	20538	0.30%	0.018%
210	15.265	15.247	15.290	VV	172	2829	0.04%	0.002%
211	15.407	15.290	15.448	PV	203	11247	0.17%	0.010%
212	15.570	15.448	15.624	VV	306	18241	0.27%	0.016%
213	15.715	15.624	15.831	VV	475768	6171807	90.75%	5.354%
214	15.851	15.831	15.871	VV	153	3238	0.05%	0.003%
215	15.897	15.871	15.930	VV	187	4366	0.06%	0.004%
216	16.005	15.930	16.038	PV	161	5778	0.08%	0.005%
217	16.078	16.038	16.131	VV	114	4414	0.06%	0.004%
218	16.195	16.131	16.264	VV	1742	30012	0.44%	0.026%
219	16.274	16.264	16.295	VV	170	1928	0.03%	0.002%
220	16.359	16.295	16.393	VV	215	6380	0.09%	0.006%
221	16.406	16.393	16.418	VV	117	1437	0.02%	0.001%
222	16.546	16.418	16.578	PV	376	14792	0.22%	0.013%
223	16.663	16.578	16.731	VV	451399	6063367	89.15%	5.260%
224	16.749	16.731	16.791	VV	317	7273	0.11%	0.006%
225	16.812	16.791	16.884	VV	149	3743	0.06%	0.003%
226	16.953	16.884	16.984	VV	318	6427	0.09%	0.006%
227	16.999	16.984	17.044	VV	168	3051	0.04%	0.003%
228	17.111	17.044	17.171	PV	2514	39934	0.59%	0.035%
229	17.248	17.171	17.278	VV	174	7325	0.11%	0.006%
230	17.337	17.278	17.358	VV	245	8419	0.12%	0.007%
231	17.437	17.358	17.481	VV	4667	75858	1.12%	0.066%
232	17.550	17.481	17.613	VV	420390	6116891	89.94%	5.307%
233	17.640	17.613	17.748	VV	430	21798	0.32%	0.019%
234	17.824	17.748	17.901	VV	400	14951	0.22%	0.013%
235	17.969	17.901	18.011	PV	3519	53311	0.78%	0.046%
236	18.139	18.011	18.186	VV	118	8759	0.13%	0.008%
237	18.274	18.186	18.311	PV	230	10952	0.16%	0.010%
238	18.382	18.311	18.471	VV	425715	6043157	88.86%	5.243%
239	18.509	18.471	18.571	VV	202	7981	0.12%	0.007%
240	18.635	18.571	18.658	VV	182	4735	0.07%	0.004%
241	18.774	18.658	18.818	PV	3017	46839	0.69%	0.041%
242	18.956	18.818	18.987	VV	222	9175	0.13%	0.008%
243	19.164	18.987	19.249	PV	428957	5973219	87.83%	5.182%
244	19.319	19.249	19.344	VV	528	18857	0.28%	0.016%
245	19.451	19.344	19.506	VV	3048	182426	2.68%	0.158%
246	19.533	19.506	19.613	VV	3210	102533	1.51%	0.089%

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247	19.801	19.613	19.831	VV	1981	128535	1.89%	0.112%
248	19.903	19.831	20.003	VV	404559	5825520	85.66%	5.054%
249	20.255	20.003	20.298	VV	3245	305181	4.49%	0.265%
250	20.428	20.298	20.481	VV	2645	253400	3.73%	0.220%
251	20.616	20.481	20.741	VV	321516	5922266	87.08%	5.138%
252	20.765	20.741	20.831	VV	2384	124414	1.83%	0.108%
253	20.855	20.831	20.881	VV	2229	64875	0.95%	0.056%
254	20.932	20.881	20.967	VV	2165	107428	1.58%	0.093%
255	21.011	20.967	21.070	VV	2690	133329	1.96%	0.116%
256	21.293	21.070	21.391	VV	1949	356782	5.25%	0.310%
257	21.469	21.391	21.622	VV	233803	5573920	81.96%	4.836%
258	21.637	21.622	21.662	VV	1272	30341	0.45%	0.026%
259	21.766	21.662	21.834	VV	1126	112158	1.65%	0.097%
260	21.847	21.834	21.888	VV	872	25623	0.38%	0.022%
261	21.983	21.888	22.051	VV	833	65515	0.96%	0.057%
262	22.066	22.051	22.224	VV	471	24734	0.36%	0.021%

Sum of corrected areas: 115264388

Aliphatic EPH 021125.M Sat Mar 01 01:31:30 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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...	7.352	8004383	55.932 ug/ml
	Spiked Amount 50.000		Recovery = 111.86%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5197744	59.124 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 118.25%	
11)	S ortho-Terphenyl (SURR)	11.234	5182415	32.035 ug/ml
	Spiked Amount 50.000		Recovery = 64.07%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	6806303	42.739 ug/ml
2)	T Naphthalene (C11.7)	5.693	7499718	47.231 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	7389966	47.465 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	8610669	52.954 ug/ml
7)	T Acenaphthene (C15.5)	8.300	9186896	55.844 ug/ml
8)	T Flouorene (C16.55)	9.079	9395749	59.599 ug/ml
9)	T Phenanthrene (C19.36)	10.468	9704487	64.396 ug/ml
10)	T Anthracene (C19.43)	10.543	9855802	65.258 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10149905	65.774 ug/ml
13)	T Pyrene (C20.8)	12.566	9846593	63.915 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9400442	71.546 ug/ml
15)	T Chrysene (C27.41)	14.479	9200670	56.904 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	9332863	67.829 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9405347	59.549 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	9010214	66.380 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.734	8902747	81.470 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	9038652	58.261 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.984	8820594	60.852 ug/ml

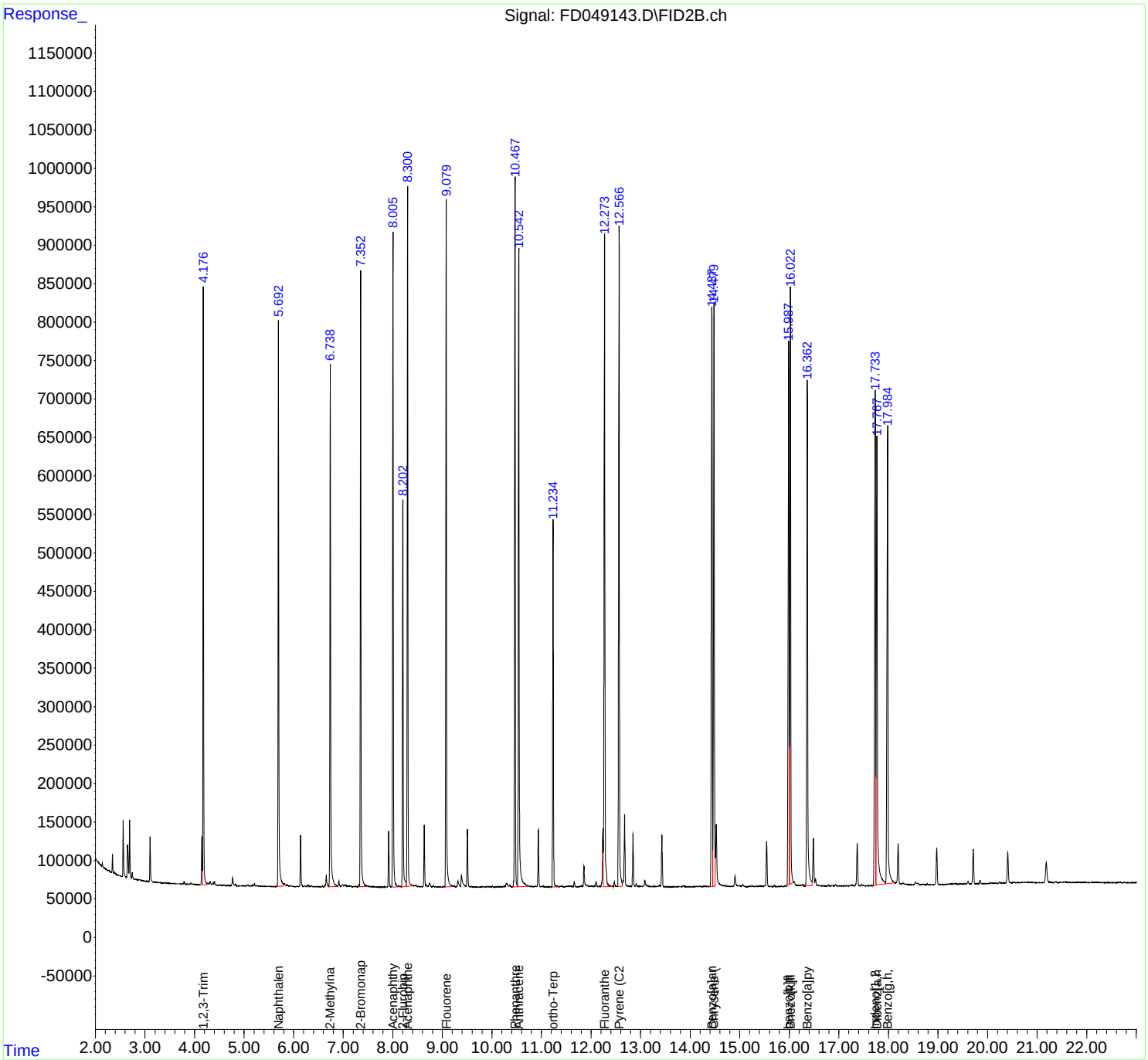
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 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\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.052	4.042	4.077	BV	152	1824	0.02%	0.001%
2	4.097	4.077	4.123	VV	200	2811	0.03%	0.001%
3	4.147	4.123	4.159	PV	63153	570838	5.59%	0.282%
4	4.176	4.159	4.247	VV	777604	6811089	66.71%	3.366%
5	4.264	4.247	4.283	VV	2518	44255	0.43%	0.022%
6	4.316	4.283	4.354	VV	4700	97915	0.96%	0.048%
7	4.372	4.354	4.387	VV	3581	42915	0.42%	0.021%
8	4.401	4.387	4.469	VV	5387	74932	0.73%	0.037%
9	4.491	4.469	4.498	VV	557	7223	0.07%	0.004%
10	4.514	4.498	4.544	VV	978	14805	0.14%	0.007%
11	4.549	4.544	4.557	VV	330	1801	0.02%	0.001%
12	4.561	4.557	4.570	VV	421	2357	0.02%	0.001%
13	4.583	4.570	4.593	VV	435	3298	0.03%	0.002%
14	4.608	4.593	4.617	VV	342	3178	0.03%	0.002%
15	4.624	4.617	4.642	VV	206	2250	0.02%	0.001%
16	4.648	4.642	4.660	VV	239	1291	0.01%	0.001%
17	4.666	4.660	4.673	PV	202	1068	0.01%	0.001%
18	4.689	4.673	4.709	VV	613	6780	0.07%	0.003%
19	4.714	4.709	4.725	VV	382	2486	0.02%	0.001%
20	4.769	4.725	4.811	VV	10385	149782	1.47%	0.074%
21	4.827	4.811	4.848	VV	2278	26668	0.26%	0.013%
22	4.858	4.848	4.882	VV	430	4562	0.04%	0.002%
23	4.886	4.882	4.891	VV	241	1049	0.01%	0.001%
24	4.898	4.891	4.906	VV	230	1407	0.01%	0.001%
25	4.918	4.906	4.942	VV	220	2878	0.03%	0.001%
26	4.967	4.942	5.002	VV	677	11218	0.11%	0.006%
27	5.005	5.002	5.017	VV	305	1996	0.02%	0.001%
28	5.020	5.017	5.033	VV	386	1872	0.02%	0.001%
29	5.048	5.033	5.114	VV	1629	47163	0.46%	0.023%
30	5.134	5.114	5.151	VV	783	13240	0.13%	0.007%
31	5.177	5.151	5.195	VV	1693	25292	0.25%	0.013%
32	5.211	5.195	5.234	VV	3795	44340	0.43%	0.022%
33	5.236	5.234	5.255	VV	718	8073	0.08%	0.004%
34	5.268	5.255	5.322	VV	1166	20586	0.20%	0.010%
35	5.340	5.322	5.351	VV	618	8137	0.08%	0.004%
36	5.358	5.351	5.380	VV	467	5563	0.05%	0.003%

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37	5.383	5.380	5.406	VV	281	3514	0.03%	0.002%
38	5.411	5.406	5.435	VV	287	3793	0.04%	0.002%
39	5.461	5.444	5.494	VV	641	10403	0.10%	0.005%
40	5.517	5.494	5.550	VV	539	12495	0.12%	0.006%
41	5.556	5.550	5.575	VV	427	4592	0.04%	0.002%
42	5.581	5.575	5.595	VV	324	2879	0.03%	0.001%
43	5.607	5.595	5.618	VV	343	2915	0.03%	0.001%
44	5.641	5.618	5.669	PV	299	5438	0.05%	0.003%
45	5.693	5.669	5.800	VV	734408	7561727	74.06%	3.737%
46	5.810	5.800	5.855	VV	4343	90069	0.88%	0.045%
47	5.872	5.855	5.907	VV	2447	49341	0.48%	0.024%
48	5.938	5.907	5.964	VV	1474	35410	0.35%	0.018%
49	5.973	5.964	5.990	VV	652	7722	0.08%	0.004%
50	5.997	5.990	6.008	VV	560	4300	0.04%	0.002%
51	6.019	6.008	6.023	VV	471	2723	0.03%	0.001%
52	6.028	6.023	6.045	VV	418	4213	0.04%	0.002%
53	6.054	6.045	6.058	VV	468	3046	0.03%	0.002%
54	6.065	6.058	6.070	VV	486	3555	0.03%	0.002%
55	6.072	6.070	6.103	VV	590	9105	0.09%	0.005%
56	6.140	6.103	6.193	VV	67007	710905	6.96%	0.351%
57	6.200	6.193	6.205	VV	605	3527	0.03%	0.002%
58	6.221	6.205	6.243	VV	1759	21706	0.21%	0.011%
59	6.261	6.243	6.274	VV	912	10752	0.11%	0.005%
60	6.291	6.274	6.310	VV	3067	35997	0.35%	0.018%
61	6.324	6.310	6.347	VV	1046	12714	0.12%	0.006%
62	6.362	6.347	6.399	VV	1716	21006	0.21%	0.010%
63	6.404	6.399	6.429	VV	348	4618	0.05%	0.002%
64	6.461	6.429	6.466	VV	514	6657	0.07%	0.003%
65	6.472	6.466	6.491	VV	361	3290	0.03%	0.002%
66	6.502	6.491	6.526	VV	403	5043	0.05%	0.002%
67	6.547	6.536	6.552	VV	237	1204	0.01%	0.001%
68	6.577	6.552	6.612	VV	1315	17042	0.17%	0.008%
69	6.631	6.612	6.641	VV	1693	18622	0.18%	0.009%
70	6.658	6.641	6.692	VV	15464	194307	1.90%	0.096%
71	6.700	6.692	6.711	VV	1758	18601	0.18%	0.009%
72	6.739	6.711	6.851	VV	679171	7383052	72.31%	3.649%
73	6.854	6.851	6.881	VV	2477	33866	0.33%	0.017%
74	6.887	6.881	6.891	VV	1471	8334	0.08%	0.004%
75	6.913	6.891	6.949	VV	7638	108444	1.06%	0.054%
76	6.991	6.949	7.011	VV	3213	74290	0.73%	0.037%
77	7.023	7.011	7.037	VV	2116	29343	0.29%	0.015%
78	7.058	7.037	7.082	VV	2231	44437	0.44%	0.022%
79	7.088	7.082	7.096	VV	906	7281	0.07%	0.004%
80	7.117	7.096	7.129	VV	1542	21709	0.21%	0.011%
81	7.145	7.129	7.174	VV	1799	28489	0.28%	0.014%
82	7.177	7.174	7.190	VV	523	3784	0.04%	0.002%
83	7.197	7.190	7.201	VV	451	2479	0.02%	0.001%
84	7.207	7.201	7.216	VV	518	3999	0.04%	0.002%
85	7.232	7.216	7.250	VV	1040	14345	0.14%	0.007%
86	7.256	7.250	7.269	VV	605	6331	0.06%	0.003%
87	7.272	7.269	7.291	VV	581	4459	0.04%	0.002%
88	7.315	7.291	7.328	VV	2492	28344	0.28%	0.014%
89	7.352	7.328	7.504	VV	801757	8084590	79.18%	3.996%

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90	7.514	7.504	7.539	VV	1114	19282	0.19%	0.010%
91	7.544	7.539	7.565	VV	777	10551	0.10%	0.005%
92	7.578	7.565	7.595	VV	802	10909	0.11%	0.005%
93	7.621	7.595	7.665	VV	1518	23244	0.23%	0.011%
94	7.678	7.665	7.691	VV	391	2936	0.03%	0.001%
95	7.702	7.691	7.737	VV	451	6081	0.06%	0.003%
96	7.750	7.737	7.774	PV	306	2740	0.03%	0.001%
97	7.792	7.785	7.803	PV	215	1206	0.01%	0.001%
98	7.832	7.803	7.851	VV	452	6992	0.07%	0.003%
99	7.859	7.851	7.873	VV	421	3328	0.03%	0.002%
100	7.918	7.873	7.959	VV	72554	765234	7.49%	0.378%
101	7.966	7.959	7.978	VV	423	4020	0.04%	0.002%
102	8.005	7.978	8.100	VV	851882	8632702	84.55%	4.267%
103	8.113	8.100	8.135	VV	1710	25024	0.25%	0.012%
104	8.148	8.135	8.177	VV	1404	20232	0.20%	0.010%
105	8.203	8.177	8.273	VV	503940	5226608	51.19%	2.583%
106	8.300	8.273	8.374	VV	912589	9249942	90.59%	4.572%
107	8.375	8.374	8.398	VV	3521	39746	0.39%	0.020%
108	8.407	8.398	8.440	VV	2046	46801	0.46%	0.023%
109	8.458	8.440	8.492	VV	2464	56965	0.56%	0.028%
110	8.497	8.492	8.504	VV	841	5350	0.05%	0.003%
111	8.516	8.504	8.540	VV	1431	19998	0.20%	0.010%
112	8.564	8.540	8.597	VV	1002	22135	0.22%	0.011%
113	8.636	8.597	8.712	VV	80870	885631	8.67%	0.438%
114	8.745	8.712	8.786	VV	5378	105642	1.03%	0.052%
115	8.819	8.786	8.850	VV	1807	37017	0.36%	0.018%
116	8.871	8.850	8.898	VV	888	13799	0.14%	0.007%
117	8.908	8.898	8.921	VV	423	3912	0.04%	0.002%
118	8.946	8.921	8.957	VV	673	10071	0.10%	0.005%
119	8.961	8.957	8.970	VV	561	3299	0.03%	0.002%
120	8.974	8.970	8.990	VV	413	3165	0.03%	0.002%
121	9.018	8.999	9.026	VV	804	9065	0.09%	0.004%
122	9.032	9.026	9.037	VV	779	4178	0.04%	0.002%
123	9.041	9.037	9.051	VV	778	4913	0.05%	0.002%
124	9.079	9.051	9.222	VV	893730	9456631	92.62%	4.674%
125	9.236	9.222	9.269	VV	1541	31863	0.31%	0.016%
126	9.314	9.269	9.370	VV	8137	183643	1.80%	0.091%
127	9.386	9.370	9.478	VV	15973	356742	3.49%	0.176%
128	9.506	9.478	9.553	VV	75343	848602	8.31%	0.419%
129	9.557	9.553	9.569	VV	789	6282	0.06%	0.003%
130	9.592	9.569	9.641	VV	976	29599	0.29%	0.015%
131	9.649	9.641	9.670	VV	490	4976	0.05%	0.002%
132	9.685	9.670	9.707	VV	401	5380	0.05%	0.003%
133	9.779	9.730	9.796	PV	561	13417	0.13%	0.007%
134	9.822	9.796	9.843	VV	980	16641	0.16%	0.008%
135	9.857	9.843	9.863	VV	375	3626	0.04%	0.002%
136	9.877	9.863	9.885	VV	641	6582	0.06%	0.003%
137	9.900	9.885	9.915	VV	939	12077	0.12%	0.006%
138	9.932	9.915	9.957	VV	973	16847	0.16%	0.008%
139	9.976	9.957	9.989	VV	517	8146	0.08%	0.004%
140	10.010	9.989	10.036	VV	1599	19088	0.19%	0.009%
141	10.049	10.036	10.057	VV	322	3092	0.03%	0.002%

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142	10.060	10.057	10.072	VV	316	2204	0.02%	0.001%
143	10.097	10.072	10.119	VV	870	16240	0.16%	0.008%
144	10.131	10.119	10.158	VV	927	12583	0.12%	0.006%
145	10.173	10.158	10.204	VV	1017	16348	0.16%	0.008%
146	10.241	10.204	10.245	VV	1242	19318	0.19%	0.010%
147	10.250	10.245	10.270	VV	1326	14116	0.14%	0.007%
148	10.288	10.270	10.294	VV	5085	44328	0.43%	0.022%
149	10.301	10.294	10.343	VV	4770	90742	0.89%	0.045%
150	10.362	10.343	10.402	VV	2787	46194	0.45%	0.023%
151	10.468	10.402	10.515	VV	919186	9737893	95.37%	4.813%
152	10.543	10.515	10.649	VV	826412	9821537	96.19%	4.854%
153	10.655	10.649	10.735	VV	5155	158646	1.55%	0.078%
154	10.739	10.735	10.745	VV	1684	9348	0.09%	0.005%
155	10.751	10.745	10.787	VV	1663	31644	0.31%	0.016%
156	10.802	10.787	10.847	VV	1009	26408	0.26%	0.013%
157	10.850	10.847	10.856	VV	666	3532	0.03%	0.002%
158	10.873	10.856	10.886	VV	1434	18259	0.18%	0.009%
159	10.891	10.886	10.900	VV	1164	8827	0.09%	0.004%
160	10.937	10.900	10.976	VV	74543	880787	8.63%	0.435%
161	10.993	10.976	11.007	VV	990	15777	0.15%	0.008%
162	11.028	11.007	11.088	VV	1310	34538	0.34%	0.017%
163	11.093	11.088	11.105	VV	424	2973	0.03%	0.001%
164	11.119	11.105	11.126	VV	366	3726	0.04%	0.002%
165	11.134	11.126	11.140	VV	371	2645	0.03%	0.001%
166	11.152	11.140	11.175	VV	460	6598	0.06%	0.003%
167	11.179	11.175	11.187	VV	226	1405	0.01%	0.001%
168	11.234	11.200	11.309	PV	478016	5197562	50.90%	2.569%
169	11.323	11.309	11.340	VV	1206	18645	0.18%	0.009%
170	11.343	11.340	11.364	VV	803	9899	0.10%	0.005%
171	11.372	11.364	11.378	VV	984	6608	0.06%	0.003%
172	11.407	11.378	11.435	VV	1922	37632	0.37%	0.019%
173	11.443	11.435	11.457	VV	448	4843	0.05%	0.002%
174	11.463	11.457	11.475	VV	340	3115	0.03%	0.002%
175	11.509	11.475	11.513	VV	1111	17109	0.17%	0.008%
176	11.522	11.513	11.552	VV	1204	24381	0.24%	0.012%
177	11.561	11.552	11.576	VV	1182	15808	0.15%	0.008%
178	11.588	11.576	11.616	VV	1425	27110	0.27%	0.013%
179	11.629	11.616	11.635	VV	827	8822	0.09%	0.004%
180	11.661	11.635	11.694	VV	7342	100043	0.98%	0.049%
181	11.705	11.694	11.721	VV	574	7697	0.08%	0.004%
182	11.731	11.721	11.749	VV	827	11893	0.12%	0.006%
183	11.755	11.749	11.779	VV	959	12231	0.12%	0.006%
184	11.816	11.779	11.837	VV	1893	42894	0.42%	0.021%
185	11.857	11.837	11.920	VV	27368	392477	3.84%	0.194%
186	11.932	11.920	11.959	VV	1876	34073	0.33%	0.017%
187	11.974	11.959	11.996	VV	1358	24934	0.24%	0.012%
188	12.009	11.996	12.035	VV	1284	24418	0.24%	0.012%
189	12.037	12.035	12.046	VV	929	4808	0.05%	0.002%
190	12.103	12.046	12.135	VV	7193	127813	1.25%	0.063%
191	12.147	12.135	12.159	VV	773	8543	0.08%	0.004%
192	12.179	12.159	12.196	VV	2052	26567	0.26%	0.013%
193	12.238	12.196	12.248	VV	76301	831869	8.15%	0.411%
194	12.273	12.248	12.417	VV	852748	10210561	100.00%	5.046%

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195	12.419	12.417	12.425	VV	779	3495	0.03%	0.002%
196	12.440	12.425	12.448	VV	855	11371	0.11%	0.006%
197	12.468	12.448	12.515	VV	7122	103350	1.01%	0.051%
198	12.518	12.515	12.532	VV	803	7169	0.07%	0.004%
199	12.566	12.532	12.631	VV	865346	9902740	96.99%	4.894%
200	12.676	12.631	12.730	VV	94615	1298259	12.71%	0.642%
201	12.736	12.730	12.792	VV	1642	42454	0.42%	0.021%
202	12.846	12.792	12.885	VV	69040	849874	8.32%	0.420%
203	12.910	12.885	12.944	VV	4519	73734	0.72%	0.036%
204	12.961	12.944	12.969	VV	927	11854	0.12%	0.006%
205	12.974	12.969	12.977	VV	822	3842	0.04%	0.002%
206	12.989	12.977	13.007	VV	939	13626	0.13%	0.007%
207	13.012	13.007	13.016	VV	695	3494	0.03%	0.002%
208	13.042	13.016	13.062	VV	1107	24265	0.24%	0.012%
209	13.084	13.062	13.154	VV	9048	187617	1.84%	0.093%
210	13.161	13.154	13.168	VV	949	6925	0.07%	0.003%
211	13.176	13.168	13.216	VV	1013	21493	0.21%	0.011%
212	13.224	13.216	13.239	VV	725	8146	0.08%	0.004%
213	13.260	13.239	13.265	VV	918	12031	0.12%	0.006%
214	13.269	13.265	13.284	VV	825	8548	0.08%	0.004%
215	13.291	13.284	13.297	VV	823	5566	0.05%	0.003%
216	13.303	13.297	13.315	VV	782	6736	0.07%	0.003%
217	13.336	13.315	13.348	VV	839	12204	0.12%	0.006%
218	13.383	13.348	13.402	VV	2198	40734	0.40%	0.020%
219	13.429	13.402	13.476	VV	68084	826651	8.10%	0.409%
220	13.484	13.476	13.506	VV	417	6082	0.06%	0.003%
221	13.536	13.506	13.543	VV	467	7707	0.08%	0.004%
222	13.550	13.543	13.560	VV	326	2244	0.02%	0.001%
223	13.574	13.570	13.587	VV	254	1198	0.01%	0.001%
224	13.601	13.593	13.606	VV	227	1141	0.01%	0.001%
225	13.621	13.613	13.645	PV	96	1363	0.01%	0.001%
226	13.662	13.652	13.668	VV	326	1699	0.02%	0.001%
227	13.686	13.675	13.694	VV	308	2352	0.02%	0.001%
228	13.700	13.694	13.712	VV	279	1992	0.02%	0.001%
229	13.722	13.712	13.733	VV	292	2331	0.02%	0.001%
230	13.743	13.733	13.752	VV	196	1655	0.02%	0.001%
231	13.761	13.752	13.765	VV	288	1903	0.02%	0.001%
232	13.771	13.765	13.795	VV	412	4892	0.05%	0.002%
233	13.799	13.795	13.806	VV	293	1486	0.01%	0.001%
234	13.828	13.806	13.835	VV	532	5605	0.05%	0.003%
235	13.868	13.835	13.896	VV	1781	35299	0.35%	0.017%
236	13.900	13.896	13.929	VV	442	6777	0.07%	0.003%
237	13.959	13.929	13.975	PV	374	5501	0.05%	0.003%
238	13.992	13.975	14.012	VV	364	4836	0.05%	0.002%
239	14.024	14.012	14.042	VV	292	3511	0.03%	0.002%
240	14.047	14.042	14.051	VV	222	1088	0.01%	0.001%
241	14.057	14.051	14.068	VV	476	2482	0.02%	0.001%
242	14.092	14.068	14.113	VV	534	9723	0.10%	0.005%
243	14.128	14.113	14.140	VV	723	8637	0.08%	0.004%
244	14.156	14.140	14.167	VV	685	8714	0.09%	0.004%
245	14.171	14.167	14.179	VV	474	3369	0.03%	0.002%
246	14.190	14.179	14.199	VV	635	5945	0.06%	0.003%

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247	14.201	14.199	14.207	VV	547	2494	0.02%	0.001%
248	14.211	14.207	14.234	VV	560	6331	0.06%	0.003%
249	14.246	14.234	14.271	VV	563	8422	0.08%	0.004%
250	14.301	14.271	14.319	VV	725	14645	0.14%	0.007%
251	14.330	14.319	14.358	VV	770	13114	0.13%	0.006%
252	14.371	14.358	14.387	VV	495	7583	0.07%	0.004%
253	14.392	14.387	14.399	VV	464	2475	0.02%	0.001%
254	14.437	14.399	14.455	VV	753429	9421292	92.27%	4.656%
255	14.479	14.455	14.507	VV	755607	9223421	90.33%	4.559%
256	14.525	14.507	14.666	VV	81419	1467633	14.37%	0.725%
257	14.670	14.666	14.676	VV	1500	7995	0.08%	0.004%
258	14.698	14.676	14.735	VV	1845	47661	0.47%	0.024%
259	14.740	14.735	14.764	VV	1034	14225	0.14%	0.007%
260	14.769	14.764	14.789	VV	757	9427	0.09%	0.005%
261	14.798	14.789	14.816	VV	620	8364	0.08%	0.004%
262	14.832	14.816	14.853	VV	783	13629	0.13%	0.007%
263	14.867	14.853	14.871	VV	681	6814	0.07%	0.003%
264	14.903	14.871	14.975	VV	14292	272159	2.67%	0.135%
265	14.981	14.975	15.017	VV	1413	28794	0.28%	0.014%
266	15.060	15.017	15.081	VV	2602	53162	0.52%	0.026%
267	15.087	15.081	15.096	VV	737	5700	0.06%	0.003%
268	15.105	15.096	15.120	VV	716	5931	0.06%	0.003%
269	15.126	15.120	15.137	VV	302	1937	0.02%	0.001%
270	15.147	15.137	15.165	VV	315	3066	0.03%	0.002%
271	15.175	15.165	15.185	VV	413	3612	0.04%	0.002%
272	15.242	15.185	15.260	VV	1271	28512	0.28%	0.014%
273	15.264	15.260	15.274	VV	664	4142	0.04%	0.002%
274	15.275	15.274	15.286	VV	493	2798	0.03%	0.001%
275	15.288	15.286	15.295	VV	401	1705	0.02%	0.001%
276	15.319	15.295	15.327	VV	506	7068	0.07%	0.003%
277	15.338	15.327	15.345	VV	665	5002	0.05%	0.002%
278	15.352	15.345	15.357	VV	639	4055	0.04%	0.002%
279	15.361	15.357	15.368	VV	621	3422	0.03%	0.002%
280	15.388	15.368	15.394	VV	734	9750	0.10%	0.005%
281	15.397	15.394	15.408	VV	869	5906	0.06%	0.003%
282	15.420	15.408	15.467	VV	819	24666	0.24%	0.012%
283	15.504	15.467	15.512	VV	1496	23618	0.23%	0.012%
284	15.542	15.512	15.576	VV	59045	774946	7.59%	0.383%
285	15.584	15.576	15.618	VV	716	13705	0.13%	0.007%
286	15.633	15.618	15.654	VV	450	5322	0.05%	0.003%
287	15.660	15.654	15.678	VV	237	1702	0.02%	0.001%
288	15.699	15.678	15.745	VV	1497	21848	0.21%	0.011%
289	15.747	15.745	15.777	VV	327	3844	0.04%	0.002%
290	15.784	15.777	15.793	VV	436	2429	0.02%	0.001%
291	15.805	15.793	15.813	VV	341	2646	0.03%	0.001%
292	15.827	15.813	15.856	VV	465	7662	0.08%	0.004%
293	15.863	15.856	15.874	VV	241	2324	0.02%	0.001%
294	15.913	15.874	15.949	VV	1507	34267	0.34%	0.017%
295	15.987	15.949	16.001	VV	709435	9405943	92.12%	4.649%
296	16.022	16.001	16.084	VV	779727	9614362	94.16%	4.752%
297	16.099	16.084	16.137	VV	6515	135808	1.33%	0.067%
298	16.141	16.137	16.174	VV	2011	38155	0.37%	0.019%
299	16.180	16.174	16.186	VV	1603	11122	0.11%	0.005%

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300	16.191	16.186	16.205	VV	1655	17622	0.17%	0.009%
301	16.220	16.205	16.248	VV	1716	38866	0.38%	0.019%
302	16.266	16.248	16.299	VV	3050	55816	0.55%	0.028%
303	16.302	16.299	16.314	VV	1126	8630	0.08%	0.004%
304	16.362	16.314	16.458	VV	658504	9102311	89.15%	4.499%
305	16.485	16.458	16.512	VV	63370	924994	9.06%	0.457%
306	16.528	16.512	16.561	VV	10257	168263	1.65%	0.083%
307	16.565	16.561	16.617	VV	2021	51064	0.50%	0.025%
308	16.622	16.617	16.657	VV	1167	23795	0.23%	0.012%
309	16.665	16.657	16.675	VV	845	8655	0.08%	0.004%
310	16.681	16.675	16.683	VV	740	3579	0.04%	0.002%
311	16.697	16.683	16.718	VV	996	17435	0.17%	0.009%
312	16.723	16.718	16.725	VV	769	3414	0.03%	0.002%
313	16.730	16.725	16.737	VV	818	5004	0.05%	0.002%
314	16.739	16.737	16.750	VV	708	4898	0.05%	0.002%
315	16.753	16.750	16.765	VV	781	5759	0.06%	0.003%
316	16.795	16.765	16.828	VV	1794	42802	0.42%	0.021%
317	16.855	16.828	16.900	VV	1463	43524	0.43%	0.022%
318	16.932	16.900	16.997	VV	2508	67778	0.66%	0.033%
319	17.012	16.997	17.044	VV	989	23107	0.23%	0.011%
320	17.049	17.044	17.078	VV	931	16940	0.17%	0.008%
321	17.083	17.078	17.096	VV	843	7437	0.07%	0.004%
322	17.113	17.096	17.125	VV	884	13431	0.13%	0.007%
323	17.144	17.125	17.154	VV	860	13634	0.13%	0.007%
324	17.164	17.154	17.181	VV	1187	15224	0.15%	0.008%
325	17.185	17.181	17.191	VV	902	5378	0.05%	0.003%
326	17.198	17.191	17.207	VV	956	8053	0.08%	0.004%
327	17.234	17.207	17.241	VV	1132	20298	0.20%	0.010%
328	17.256	17.241	17.288	VV	1546	35348	0.35%	0.017%
329	17.293	17.288	17.312	VV	1234	15198	0.15%	0.008%
330	17.370	17.312	17.407	VV	56292	802346	7.86%	0.397%
331	17.414	17.407	17.424	VV	1160	9965	0.10%	0.005%
332	17.457	17.424	17.486	VV	3058	64042	0.63%	0.032%
333	17.497	17.486	17.513	VV	1082	16320	0.16%	0.008%
334	17.519	17.513	17.545	VV	1046	17432	0.17%	0.009%
335	17.572	17.545	17.590	VV	1071	24613	0.24%	0.012%
336	17.618	17.590	17.638	VV	1038	26047	0.26%	0.013%
337	17.663	17.638	17.677	VV	1240	25906	0.25%	0.013%
338	17.734	17.677	17.746	VV	646147	8963404	87.79%	4.430%
339	17.767	17.746	17.943	VV	585316	9337294	91.45%	4.615%
340	17.984	17.943	18.154	VV	596885	9344801	91.52%	4.619%
341	18.195	18.154	18.229	VV	55883	887184	8.69%	0.438%
342	18.236	18.229	18.262	VV	3659	66226	0.65%	0.033%
343	18.297	18.262	18.300	VBA	4578	84196	0.82%	0.042%

Sum of corrected areas: 202333013

Aromatic EPH 021125.M Sat Mar 01 04:02:09 2025

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Manual Integration Report

Sequence:	FC022825AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1447-01	FC068339.D	1-chlorooctadecane (SURR)	yogesh	3/5/2025 7:49:39 AM	Ankita	3/5/2025 9:17:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD021125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049077.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:10 AM	Ankita	2/11/2025 9:13:40	Peak Integrated by Software
20 PPM AROMATIC HC	FD049079.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:12 AM	Ankita	2/11/2025 9:13:41	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD022825AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049129.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	3/3/2025 8:01:30 AM	Ankita	3/4/2025 12:54:35	Peak Integrated by Software
Q1421-01D	FD049141.D	2-Flurobiphenyl (SURR)	yogesh	3/3/2025 8:01:31 AM	Ankita	3/4/2025 12:54:36	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

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	FC068250.D	10 Feb 2025 15:12	YP/AJ	Ok
2	I.BLK	FC068251.D	10 Feb 2025 15:48	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068252.D	10 Feb 2025 16:24	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068253.D	10 Feb 2025 17:01	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068254.D	10 Feb 2025 17:38	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068255.D	10 Feb 2025 18:14	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068256.D	10 Feb 2025 18:50	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068257.D	10 Feb 2025 19:26	YP/AJ	Ok
9	I.BLK	FC068258.D	10 Feb 2025 20:39	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068259.D	10 Feb 2025 21:16	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

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	FC068319.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FC068320.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068321.D	28 Feb 2025 10:23	YP/AJ	Ok
4	PB166923BL	FC068322.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FC068323.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FC068324.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FC068325.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FC068326.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FC068327.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FC068328.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FC068329.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FC068330.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC068331.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FC068332.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FC068333.D	28 Feb 2025 18:20	YP/AJ	Ok
16	Q1421-02	FC068334.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FC068335.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FC068336.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FC068337.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FC068338.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FC068339.D	28 Feb 2025 21:59	YP/AJ	Dilution

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

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	I.BLK	FC068340.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC068341.D	28 Feb 2025 23:50	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049070.D	10 Feb 2025 12:09	YP/AJ	Ok
2	I.BLK	FD049071.D	10 Feb 2025 12:45	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049072.D	10 Feb 2025 13:22	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049073.D	10 Feb 2025 13:58	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049074.D	10 Feb 2025 14:35	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049075.D	10 Feb 2025 15:12	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049076.D	10 Feb 2025 15:48	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049077.D	10 Feb 2025 16:24	YP/AJ	Ok,M
9	I.BLK	FD049078.D	10 Feb 2025 17:01	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049079.D	10 Feb 2025 17:38	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

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	FD049127.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FD049128.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049129.D	28 Feb 2025 10:23	YP/AJ	Ok,M
4	PB166923BL	FD049130.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FD049131.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FD049132.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FD049133.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FD049134.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FD049135.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FD049136.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FD049137.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FD049138.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM AROMATIC HC STD	FD049139.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FD049140.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FD049141.D	28 Feb 2025 18:20	YP/AJ	Ok,M
16	Q1421-02	FD049142.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FD049143.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FD049144.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FD049145.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FD049146.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FD049147.D	28 Feb 2025 21:59	YP/AJ	Dilution

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

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	

22	I.BLK	FD049148.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM AROMATIC HC STD	FD049149.D	28 Feb 2025 23:50	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

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	FC068250.D	10 Feb 2025 15:12		YP/AJ	Ok
2	I.BLK	I.BLK	FC068251.D	10 Feb 2025 15:48		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068252.D	10 Feb 2025 16:24		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068253.D	10 Feb 2025 17:01		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068254.D	10 Feb 2025 17:38		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068255.D	10 Feb 2025 18:14		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068256.D	10 Feb 2025 18:50		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068257.D	10 Feb 2025 19:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068258.D	10 Feb 2025 20:39		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068259.D	10 Feb 2025 21:16		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

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	FC068319.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FC068320.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068321.D	28 Feb 2025 10:23		YP/AJ	Ok
4	PB166923BL	PB166923BL	FC068322.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FC068323.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FC068324.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FC068325.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FC068326.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FC068327.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FC068328.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FC068329.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FC068330.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068331.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FC068332.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FC068333.D	28 Feb 2025 18:20		YP/AJ	Ok
16	Q1421-02	P001-CLAY-CF01-01MS	FC068334.D	28 Feb 2025 18:56	FC068332.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01MS	FC068335.D	28 Feb 2025 19:32	FC068332.D!FC068334.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FC068336.D	28 Feb 2025 20:09		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

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	

19	Q1422-01	B-154-SB01	FC068337.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FC068338.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FC068339.D	28 Feb 2025 21:59	need 10x & 100x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FC068340.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068341.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049070.D	10 Feb 2025 12:09		YP/AJ	Ok
2	I.BLK	I.BLK	FD049071.D	10 Feb 2025 12:45		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049072.D	10 Feb 2025 13:22		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049073.D	10 Feb 2025 13:58		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049074.D	10 Feb 2025 14:35		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049075.D	10 Feb 2025 15:12		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049076.D	10 Feb 2025 15:48		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049077.D	10 Feb 2025 16:24		YP/AJ	Ok,M
9	I.BLK	I.BLK	FD049078.D	10 Feb 2025 17:01		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049079.D	10 Feb 2025 17:38		YP/AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

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	FD049127.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FD049128.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049129.D	28 Feb 2025 10:23		YP/AJ	Ok,M
4	PB166923BL	PB166923BL	FD049130.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FD049131.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FD049132.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FD049133.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FD049134.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FD049135.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FD049136.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FD049137.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FD049138.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049139.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FD049140.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FD049141.D	28 Feb 2025 18:20		YP/AJ	Ok,M
16	Q1421-02	P001-CLAY-CF01-01M	FD049142.D	28 Feb 2025 18:56	FD049140.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01M	FD049143.D	28 Feb 2025 19:32	FD049140.D!FD049142.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FD049144.D	28 Feb 2025 20:09		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

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	

19	Q1422-01	B-154-SB01	FD049145.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FD049146.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FD049147.D	28 Feb 2025 21:59	need 25x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FD049148.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049149.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166923

SOP ID: MNJDEP-EPH-7

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 : 02/27/2025

Extraction Start Time : 13:10

Extraction End Date : 02/28/2025

Extraction End Time : 10:45

Concentration By: EH

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	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
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	EP2590
Sand	N/A	E2865
Hexane	N/A	E3877
Methylene Chloride	N/A	E3878
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: 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
2/28/25	RS (Ext-lab)	Y.P.Pest1PCR
10:50	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166923

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/28/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166923BL	PB166923BL	EPH	30.02	N/A	ritesh	Evelyn	2			U2-1
PB166923BS	PB166923BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB166923BSD	PB166923BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q1415-01	B-163-SB01	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
Q1415-02	B-172-SB01	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
Q1415-03	B-163-SB02	EPH	30.03	N/A	ritesh	Evelyn	2	E		6
Q1415-04	B-172-SB02	EPH	30.08	N/A	ritesh	Evelyn	2	E		U6-1
Q1421-01	P001-CLAY-CF01-01	EPH	30.05	N/A	ritesh	Evelyn	2	E		2
Q1421-01DUP	P001-CLAY-CF01-01DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		3
Q1421-02	Q1421-01MS	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1421-03	Q1421-01MSD	EPH	30.03	N/A	ritesh	Evelyn	2	E		5
Q1421-07	P001-CLAY-CF01-02	EPH	30.06	N/A	ritesh	Evelyn	2	F		6
Q1421-09	P001-CLAY-CF02-01	EPH	30.02	N/A	ritesh	Evelyn	2	E		U3-1
Q1422-01	B-154-SB01	EPH	30.07	N/A	ritesh	Evelyn	2	E		2
Q1422-02	B-154-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	E		3
Q1447-01	WC1	EPH	30.01	N/A	ritesh	Evelyn	2	B		4

RS
2/28

* **Extracts relinquished on the same date as received.**

16692-
13:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1447 **WorkList ID :** 187944 **Department :** Extraction **Date :** 02-27-2025 13:05:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-02	B-172-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-03	B-163-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-04	B-172-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1421-01	P001-CLAY-CF01-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-02	Q1421-01MS	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-03	Q1421-01MSD	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-07	P001-CLAY-CF01-02	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-09	P001-CLAY-CF02-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1422-01	B-154-SB01	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1422-02	B-154-SB02	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1447-01	WC1	Solid	EPH	Cool 4 deg C	GENV01	H33	02/23/2025	NJEPH

Date/Time 2/27/25 13:05
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by: CP SM

Date/Time 2/27/25 13:30
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ext-Lab)

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LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**Solid**			**02/23/25**			**02/25/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/26/25	02/26/25	
Q1422-02	**B-154-SB02**	**Solid**			**02/23/25**			**02/25/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/26/25	02/26/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1422 **Order ID:** Q1422

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-154-SB01								
Q1422-01	B-154-SB01	SOIL	Aluminum	6540		2.37	4.92	mg/Kg
Q1422-01	B-154-SB01	SOIL	Arsenic	3.45		0.28	0.98	mg/Kg
Q1422-01	B-154-SB01	SOIL	Barium	52.8		0.63	4.92	mg/Kg
Q1422-01	B-154-SB01	SOIL	Beryllium	0.51		0.012	0.30	mg/Kg
Q1422-01	B-154-SB01	SOIL	Calcium	1300		2.75	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Chromium	11.5		0.053	0.49	mg/Kg
Q1422-01	B-154-SB01	SOIL	Cobalt	9.17		0.057	1.48	mg/Kg
Q1422-01	B-154-SB01	SOIL	Copper	34.9		0.46	0.98	mg/Kg
Q1422-01	B-154-SB01	SOIL	Iron	16800		2.65	4.92	mg/Kg
Q1422-01	B-154-SB01	SOIL	Lead	26.4		0.15	0.59	mg/Kg
Q1422-01	B-154-SB01	SOIL	Magnesium	3540		3.37	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Manganese	186		0.070	0.98	mg/Kg
Q1422-01	B-154-SB01	SOIL	Mercury	0.023		0.0070	0.016	mg/Kg
Q1422-01	B-154-SB01	SOIL	Nickel	17.1		0.089	1.97	mg/Kg
Q1422-01	B-154-SB01	SOIL	Potassium	1030		28.2	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Sodium	94.2	J	35.5	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Thallium	0.89	J	0.43	1.97	mg/Kg
Q1422-01	B-154-SB01	SOIL	Vanadium	16.3		0.27	1.97	mg/Kg
Q1422-01	B-154-SB01	SOIL	Zinc	39.7		0.11	1.97	mg/Kg
Client ID : B-154-SB02								
Q1422-02	B-154-SB02	SOIL	Aluminum	6540		2.44	5.07	mg/Kg
Q1422-02	B-154-SB02	SOIL	Arsenic	1.97		0.29	1.01	mg/Kg
Q1422-02	B-154-SB02	SOIL	Barium	40.7		0.65	5.07	mg/Kg
Q1422-02	B-154-SB02	SOIL	Beryllium	0.48		0.012	0.30	mg/Kg
Q1422-02	B-154-SB02	SOIL	Calcium	852		2.84	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Chromium	10.5		0.055	0.51	mg/Kg
Q1422-02	B-154-SB02	SOIL	Cobalt	6.40		0.059	1.52	mg/Kg
Q1422-02	B-154-SB02	SOIL	Copper	16.3		0.48	1.01	mg/Kg
Q1422-02	B-154-SB02	SOIL	Iron	12700		2.73	5.07	mg/Kg
Q1422-02	B-154-SB02	SOIL	Lead	8.93		0.15	0.61	mg/Kg
Q1422-02	B-154-SB02	SOIL	Magnesium	2070		3.48	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Manganese	148		0.072	1.01	mg/Kg
Q1422-02	B-154-SB02	SOIL	Nickel	10.9		0.091	2.03	mg/Kg
Q1422-02	B-154-SB02	SOIL	Potassium	571		29.1	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Sodium	60.6	J	36.6	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Vanadium	17.2		0.27	2.03	mg/Kg
Q1422-02	B-154-SB02	SOIL	Zinc	25.3		0.11	2.03	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1422 **Order ID:** Q1422

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6540		1	2.37	4.92	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.46	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-38-2	Arsenic	3.45		1	0.28	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-39-3	Barium	52.8		1	0.63	4.92	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-41-7	Beryllium	0.51		1	0.012	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-70-2	Calcium	1300		1	2.75	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-47-3	Chromium	11.5		1	0.053	0.49	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-48-4	Cobalt	9.17		1	0.057	1.48	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-50-8	Copper	34.9		1	0.46	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-89-6	Iron	16800		1	2.65	4.92	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-92-1	Lead	26.4		1	0.15	0.59	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-95-4	Magnesium	3540		1	3.37	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-96-5	Manganese	186		1	0.070	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-97-6	Mercury	0.023	N	1	0.0070	0.016	mg/Kg	02/25/25 13:30	02/26/25 12:28	SW7471B	
7440-02-0	Nickel	17.1		1	0.089	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-09-7	Potassium	1030		1	28.2	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7782-49-2	Selenium	0.33	UN	1	0.33	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-22-4	Silver	0.051	UN	1	0.051	0.49	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-23-5	Sodium	94.2	J	1	35.5	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-28-0	Thallium	0.89	J	1	0.43	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-62-2	Vanadium	16.3		1	0.27	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-66-6	Zinc	39.7		1	0.11	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	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:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6540		1	2.44	5.07	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.53	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-38-2	Arsenic	1.97		1	0.29	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-39-3	Barium	40.7		1	0.65	5.07	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-41-7	Beryllium	0.48		1	0.012	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-70-2	Calcium	852		1	2.84	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-47-3	Chromium	10.5		1	0.055	0.51	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-48-4	Cobalt	6.40		1	0.059	1.52	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-50-8	Copper	16.3		1	0.48	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-89-6	Iron	12700		1	2.73	5.07	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-92-1	Lead	8.93		1	0.15	0.61	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-95-4	Magnesium	2070		1	3.48	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-96-5	Manganese	148		1	0.072	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-97-6	Mercury	0.0070	UN	1	0.0070	0.015	mg/Kg	02/25/25 13:30	02/26/25 12:40	SW7471B	
7440-02-0	Nickel	10.9		1	0.091	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-09-7	Potassium	571		1	29.1	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7782-49-2	Selenium	0.34	UN	1	0.34	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-22-4	Silver	0.053	UN	1	0.053	0.51	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-23-5	Sodium	60.6	J	1	36.6	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-28-0	Thallium	0.45	U	1	0.45	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-62-2	Vanadium	17.2		1	0.27	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-66-6	Zinc	25.3		1	0.11	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	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

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB19	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:15	LB134807

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB25	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:20	LB134807
CCB26	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:53	LB134807
CCB27	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	12:37	LB134807
CCB28	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	12:49	LB134807

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	11:57	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	11:57	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	11:57	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	11:57	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	11:57	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	11:57	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	11:57	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	11:57	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	12:34	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	12:34	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	12:34	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	12:34	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	12:34	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	12:34	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	12:34	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	12:34	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
CCB02	Aluminum	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	13:25	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	13:25	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	13:25	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	13:25	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	13:25	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	13:25	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	13:25	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
CCB03	Aluminum	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	14:15	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	14:15	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	14:15	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	14:15	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	14:15	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	14:15	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	14:15	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
CCB04	Aluminum	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	15:05	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:05	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:05	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	15:05	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	15:05	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	15:05	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	15:05	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	15:05	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
CCB05	Aluminum	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	15:55	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:55	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:55	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	15:55	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	15:55	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	15:55	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	15:55	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
CCB06	Aluminum	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	16:52	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	16:52	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	16:52	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	16:52	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	16:52	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	16:52	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	16:52	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
CCB07	Aluminum	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	17:44	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	17:44	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	17:44	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	17:44	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	17:44	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	17:44	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	17:44	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
CCB08	Aluminum	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	18:33	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	18:33	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:33	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:33	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	18:33	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	18:33	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	18:33	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	18:33	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
CCB09	Aluminum	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	18:50	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:50	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:50	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	18:50	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	18:50	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	18:50	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	18:50	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	18:50	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166864BL		**SOLID**		**Batch Number:**	**PB166864**		**Prep Date:**	**02/25/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	02/26/2025	11:32	LB134807

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166858BL		**SOLID**		**Batch Number:**	**PB166858**		**Prep Date:**	**02/25/2025**	
	Aluminum	4.41	<4.41	U	4.41	P	03/10/2025	16:33	LB134965
	Antimony	2.20	<2.20	U	2.20	P	03/10/2025	16:33	LB134965
	Arsenic	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Barium	4.41	<4.41	U	4.41	P	03/10/2025	16:33	LB134965
	Beryllium	0.26	<0.26	U	0.26	P	03/10/2025	16:33	LB134965
	Cadmium	0.26	<0.26	U	0.26	P	03/10/2025	16:33	LB134965
	Calcium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Chromium	0.44	<0.44	U	0.44	P	03/10/2025	16:33	LB134965
	Cobalt	1.32	<1.32	U	1.32	P	03/10/2025	16:33	LB134965
	Copper	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Iron	4.41	<4.41	U	4.41	P	03/10/2025	16:33	LB134965
	Lead	0.53	<0.53	U	0.53	P	03/10/2025	16:33	LB134965
	Magnesium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Manganese	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Nickel	1.76	<1.76	U	1.76	P	03/10/2025	16:33	LB134965
	Potassium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Selenium	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Silver	0.44	<0.44	U	0.44	P	03/10/2025	16:33	LB134965
	Sodium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Thallium	1.76	<1.76	U	1.76	P	03/10/2025	16:33	LB134965
	Vanadium	1.76	<1.76	U	1.76	P	03/10/2025	16:33	LB134965
	Zinc	0.42	<1.76	J	1.76	P	03/10/2025	16:33	LB134965

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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
ICV19	Mercury	3.63	4.0	91	90 - 110	CV	02/26/2025	11:10	LB134807

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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
CCV25	Mercury	5.01	5.0	100	90 - 110	CV	02/26/2025	11:18	LB134807
CCV26	Mercury	4.86	5.0	97	90 - 110	CV	02/26/2025	11:48	LB134807
CCV27	Mercury	4.78	5.0	96	90 - 110	CV	02/26/2025	12:30	LB134807
CCV28	Mercury	4.73	5.0	95	90 - 110	CV	02/26/2025	12:46	LB134807

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	2500	2500	100	90 - 110	P	03/10/2025	11:48	LB134965
	Antimony	1010	1000	100	90 - 110	P	03/10/2025	11:48	LB134965
	Arsenic	1030	1000	103	90 - 110	P	03/10/2025	11:48	LB134965
	Barium	537	520	103	90 - 110	P	03/10/2025	11:48	LB134965
	Beryllium	517	510	101	90 - 110	P	03/10/2025	11:48	LB134965
	Cadmium	503	510	99	90 - 110	P	03/10/2025	11:48	LB134965
	Calcium	9910	10000	99	90 - 110	P	03/10/2025	11:48	LB134965
	Chromium	531	520	102	90 - 110	P	03/10/2025	11:48	LB134965
	Cobalt	510	520	98	90 - 110	P	03/10/2025	11:48	LB134965
	Copper	524	510	103	90 - 110	P	03/10/2025	11:48	LB134965
	Iron	10400	10000	104	90 - 110	P	03/10/2025	11:48	LB134965
	Lead	1010	1000	101	90 - 110	P	03/10/2025	11:48	LB134965
	Magnesium	5800	6000	97	90 - 110	P	03/10/2025	11:48	LB134965
	Manganese	503	520	97	90 - 110	P	03/10/2025	11:48	LB134965
	Nickel	513	530	97	90 - 110	P	03/10/2025	11:48	LB134965
	Potassium	10200	9900	103	90 - 110	P	03/10/2025	11:48	LB134965
	Selenium	1040	1000	104	90 - 110	P	03/10/2025	11:48	LB134965
	Silver	257	250	103	90 - 110	P	03/10/2025	11:48	LB134965
	Sodium	9760	10000	98	90 - 110	P	03/10/2025	11:48	LB134965
	Thallium	1040	1000	104	90 - 110	P	03/10/2025	11:48	LB134965
	Vanadium	513	500	103	90 - 110	P	03/10/2025	11:48	LB134965
	Zinc	1040	1000	104	90 - 110	P	03/10/2025	11:48	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	103	100	103	80 - 120	P	03/10/2025	11:52	LB134965
	Antimony	49.7	50.0	99	80 - 120	P	03/10/2025	11:52	LB134965
	Arsenic	17.9	20.0	90	80 - 120	P	03/10/2025	11:52	LB134965
	Barium	90.3	100	90	80 - 120	P	03/10/2025	11:52	LB134965
	Beryllium	5.54	6.0	92	80 - 120	P	03/10/2025	11:52	LB134965
	Cadmium	5.56	6.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Calcium	1900	2000	95	80 - 120	P	03/10/2025	11:52	LB134965
	Chromium	9.58	10.0	96	80 - 120	P	03/10/2025	11:52	LB134965
	Cobalt	28.0	30.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Copper	21.2	20.0	106	80 - 120	P	03/10/2025	11:52	LB134965
	Iron	108	100	108	80 - 120	P	03/10/2025	11:52	LB134965
	Lead	11.7	12.0	97	80 - 120	P	03/10/2025	11:52	LB134965
	Magnesium	1970	2000	99	80 - 120	P	03/10/2025	11:52	LB134965
	Manganese	19.2	20.0	96	80 - 120	P	03/10/2025	11:52	LB134965
	Nickel	37.4	40.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Potassium	1930	2000	97	80 - 120	P	03/10/2025	11:52	LB134965
	Selenium	18.2	20.0	91	80 - 120	P	03/10/2025	11:52	LB134965
	Silver	9.78	10.0	98	80 - 120	P	03/10/2025	11:52	LB134965
	Sodium	1800	2000	90	80 - 120	P	03/10/2025	11:52	LB134965
	Thallium	40.0	40.0	100	80 - 120	P	03/10/2025	11:52	LB134965
	Vanadium	35.7	40.0	89	80 - 120	P	03/10/2025	11:52	LB134965
	Zinc	40.5	40.0	101	80 - 120	P	03/10/2025	11:52	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	9760	10000	98	90 - 110	P	03/10/2025	12:27	LB134965
	Antimony	5060	5000	101	90 - 110	P	03/10/2025	12:27	LB134965
	Arsenic	4990	5000	100	90 - 110	P	03/10/2025	12:27	LB134965
	Barium	9500	10000	95	90 - 110	P	03/10/2025	12:27	LB134965
	Beryllium	247	250	99	90 - 110	P	03/10/2025	12:27	LB134965
	Cadmium	2440	2500	97	90 - 110	P	03/10/2025	12:27	LB134965
	Calcium	26100	25000	104	90 - 110	P	03/10/2025	12:27	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	12:27	LB134965
	Cobalt	2430	2500	97	90 - 110	P	03/10/2025	12:27	LB134965
	Copper	1240	1250	99	90 - 110	P	03/10/2025	12:27	LB134965
	Iron	4820	5000	96	90 - 110	P	03/10/2025	12:27	LB134965
	Lead	4900	5000	98	90 - 110	P	03/10/2025	12:27	LB134965
	Magnesium	25900	25000	104	90 - 110	P	03/10/2025	12:27	LB134965
	Manganese	2620	2500	105	90 - 110	P	03/10/2025	12:27	LB134965
	Nickel	2440	2500	98	90 - 110	P	03/10/2025	12:27	LB134965
	Potassium	24200	25000	97	90 - 110	P	03/10/2025	12:27	LB134965
	Selenium	5030	5000	101	90 - 110	P	03/10/2025	12:27	LB134965
	Silver	1220	1250	98	90 - 110	P	03/10/2025	12:27	LB134965
	Sodium	24100	25000	96	90 - 110	P	03/10/2025	12:27	LB134965
	Thallium	4960	5000	99	90 - 110	P	03/10/2025	12:27	LB134965
	Vanadium	2410	2500	96	90 - 110	P	03/10/2025	12:27	LB134965
	Zinc	2470	2500	99	90 - 110	P	03/10/2025	12:27	LB134965
CCV02	Aluminum	9920	10000	99	90 - 110	P	03/10/2025	13:21	LB134965
	Antimony	5190	5000	104	90 - 110	P	03/10/2025	13:21	LB134965
	Arsenic	5090	5000	102	90 - 110	P	03/10/2025	13:21	LB134965
	Barium	10200	10000	102	90 - 110	P	03/10/2025	13:21	LB134965
	Beryllium	231	250	93	90 - 110	P	03/10/2025	13:21	LB134965
	Cadmium	2470	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Calcium	24300	25000	97	90 - 110	P	03/10/2025	13:21	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	13:21	LB134965
	Cobalt	2480	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Copper	1270	1250	102	90 - 110	P	03/10/2025	13:21	LB134965
	Iron	5220	5000	104	90 - 110	P	03/10/2025	13:21	LB134965
	Lead	4950	5000	99	90 - 110	P	03/10/2025	13:21	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	03/10/2025	13:21	LB134965
	Manganese	2420	2500	97	90 - 110	P	03/10/2025	13:21	LB134965
	Nickel	2490	2500	100	90 - 110	P	03/10/2025	13:21	LB134965
	Potassium	26700	25000	107	90 - 110	P	03/10/2025	13:21	LB134965
	Selenium	5150	5000	103	90 - 110	P	03/10/2025	13:21	LB134965
	Silver	1260	1250	101	90 - 110	P	03/10/2025	13:21	LB134965
	Sodium	26400	25000	106	90 - 110	P	03/10/2025	13:21	LB134965
	Thallium	5050	5000	101	90 - 110	P	03/10/2025	13:21	LB134965
	Vanadium	2470	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Zinc	2550	2500	102	90 - 110	P	03/10/2025	13:21	LB134965
CCV03	Aluminum	10000	10000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Antimony	5250	5000	105	90 - 110	P	03/10/2025	14:11	LB134965
	Arsenic	5180	5000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Barium	10200	10000	102	90 - 110	P	03/10/2025	14:11	LB134965
	Beryllium	239	250	96	90 - 110	P	03/10/2025	14:11	LB134965
	Cadmium	2500	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Calcium	24500	25000	98	90 - 110	P	03/10/2025	14:11	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Cobalt	2510	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Copper	1300	1250	104	90 - 110	P	03/10/2025	14:11	LB134965
	Iron	5200	5000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Lead	5010	5000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Magnesium	24300	25000	97	90 - 110	P	03/10/2025	14:11	LB134965
	Manganese	2420	2500	97	90 - 110	P	03/10/2025	14:11	LB134965
	Nickel	2520	2500	101	90 - 110	P	03/10/2025	14:11	LB134965
	Potassium	26600	25000	106	90 - 110	P	03/10/2025	14:11	LB134965
	Selenium	5240	5000	105	90 - 110	P	03/10/2025	14:11	LB134965
	Silver	1280	1250	102	90 - 110	P	03/10/2025	14:11	LB134965
	Sodium	25900	25000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Thallium	5010	5000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Vanadium	2500	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Zinc	2590	2500	104	90 - 110	P	03/10/2025	14:11	LB134965
CCV04	Aluminum	9730	10000	97	90 - 110	P	03/10/2025	15:01	LB134965
	Antimony	5120	5000	102	90 - 110	P	03/10/2025	15:01	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	5010	5000	100	90 - 110	P	03/10/2025	15:01	LB134965
	Barium	9950	10000	100	90 - 110	P	03/10/2025	15:01	LB134965
	Beryllium	226	250	90	90 - 110	P	03/10/2025	15:01	LB134965
	Cadmium	2420	2500	97	90 - 110	P	03/10/2025	15:01	LB134965
	Calcium	24000	25000	96	90 - 110	P	03/10/2025	15:01	LB134965
	Chromium	993	1000	99	90 - 110	P	03/10/2025	15:01	LB134965
	Cobalt	2440	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	15:01	LB134965
	Iron	5240	5000	105	90 - 110	P	03/10/2025	15:01	LB134965
	Lead	4860	5000	97	90 - 110	P	03/10/2025	15:01	LB134965
	Magnesium	23700	25000	95	90 - 110	P	03/10/2025	15:01	LB134965
	Manganese	2360	2500	94	90 - 110	P	03/10/2025	15:01	LB134965
	Nickel	2440	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Potassium	26800	25000	107	90 - 110	P	03/10/2025	15:01	LB134965
	Selenium	5050	5000	101	90 - 110	P	03/10/2025	15:01	LB134965
	Silver	1250	1250	100	90 - 110	P	03/10/2025	15:01	LB134965
	Sodium	26100	25000	104	90 - 110	P	03/10/2025	15:01	LB134965
	Thallium	4780	5000	96	90 - 110	P	03/10/2025	15:01	LB134965
	Vanadium	2450	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Zinc	2510	2500	100	90 - 110	P	03/10/2025	15:01	LB134965
CCV05	Aluminum	9800	10000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Antimony	5090	5000	102	90 - 110	P	03/10/2025	15:51	LB134965
	Arsenic	5000	5000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Barium	9730	10000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Beryllium	239	250	96	90 - 110	P	03/10/2025	15:51	LB134965
	Cadmium	2420	2500	97	90 - 110	P	03/10/2025	15:51	LB134965
	Calcium	23800	25000	95	90 - 110	P	03/10/2025	15:51	LB134965
	Chromium	983	1000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Cobalt	2440	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	15:51	LB134965
	Iron	4890	5000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Lead	4850	5000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Magnesium	24000	25000	96	90 - 110	P	03/10/2025	15:51	LB134965
	Manganese	2360	2500	94	90 - 110	P	03/10/2025	15:51	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	2450	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Potassium	25000	25000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Selenium	5020	5000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Silver	1250	1250	100	90 - 110	P	03/10/2025	15:51	LB134965
	Sodium	24100	25000	96	90 - 110	P	03/10/2025	15:51	LB134965
	Thallium	4850	5000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Vanadium	2450	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Zinc	2500	2500	100	90 - 110	P	03/10/2025	15:51	LB134965
CCV06	Aluminum	9600	10000	96	90 - 110	P	03/10/2025	16:48	LB134965
	Antimony	5090	5000	102	90 - 110	P	03/10/2025	16:48	LB134965
	Arsenic	4980	5000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Barium	9720	10000	97	90 - 110	P	03/10/2025	16:48	LB134965
	Beryllium	268	250	107	90 - 110	P	03/10/2025	16:48	LB134965
	Cadmium	2410	2500	96	90 - 110	P	03/10/2025	16:48	LB134965
	Calcium	23700	25000	95	90 - 110	P	03/10/2025	16:48	LB134965
	Chromium	977	1000	98	90 - 110	P	03/10/2025	16:48	LB134965
	Cobalt	2430	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	16:48	LB134965
	Iron	5100	5000	102	90 - 110	P	03/10/2025	16:48	LB134965
	Lead	4830	5000	96	90 - 110	P	03/10/2025	16:48	LB134965
	Magnesium	23600	25000	94	90 - 110	P	03/10/2025	16:48	LB134965
	Manganese	2680	2500	107	90 - 110	P	03/10/2025	16:48	LB134965
	Nickel	2440	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Potassium	26100	25000	104	90 - 110	P	03/10/2025	16:48	LB134965
	Selenium	5020	5000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Silver	1240	1250	100	90 - 110	P	03/10/2025	16:48	LB134965
	Sodium	24900	25000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Thallium	4890	5000	98	90 - 110	P	03/10/2025	16:48	LB134965
	Vanadium	2420	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Zinc	2500	2500	100	90 - 110	P	03/10/2025	16:48	LB134965
CCV07	Aluminum	9380	10000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Antimony	5010	5000	100	90 - 110	P	03/10/2025	17:39	LB134965
	Arsenic	4890	5000	98	90 - 110	P	03/10/2025	17:39	LB134965
	Barium	9380	10000	94	90 - 110	P	03/10/2025	17:39	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	259	250	104	90 - 110	P	03/10/2025	17:39	LB134965
	Cadmium	2350	2500	94	90 - 110	P	03/10/2025	17:39	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	17:39	LB134965
	Chromium	942	1000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Cobalt	2370	2500	95	90 - 110	P	03/10/2025	17:39	LB134965
	Copper	1220	1250	98	90 - 110	P	03/10/2025	17:39	LB134965
	Iron	4820	5000	96	90 - 110	P	03/10/2025	17:39	LB134965
	Lead	4710	5000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Magnesium	23000	25000	92	90 - 110	P	03/10/2025	17:39	LB134965
	Manganese	2580	2500	103	90 - 110	P	03/10/2025	17:39	LB134965
	Nickel	2380	2500	95	90 - 110	P	03/10/2025	17:39	LB134965
	Potassium	24600	25000	98	90 - 110	P	03/10/2025	17:39	LB134965
	Selenium	4950	5000	99	90 - 110	P	03/10/2025	17:39	LB134965
	Silver	1190	1250	95	90 - 110	P	03/10/2025	17:39	LB134965
	Sodium	23300	25000	93	90 - 110	P	03/10/2025	17:39	LB134965
	Thallium	4820	5000	96	90 - 110	P	03/10/2025	17:39	LB134965
	Vanadium	2350	2500	94	90 - 110	P	03/10/2025	17:39	LB134965
	Zinc	2410	2500	96	90 - 110	P	03/10/2025	17:39	LB134965
CCV08	Aluminum	9210	10000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Antimony	4880	5000	98	90 - 110	P	03/10/2025	18:29	LB134965
	Arsenic	4780	5000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Barium	9560	10000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Beryllium	259	250	103	90 - 110	P	03/10/2025	18:29	LB134965
	Cadmium	2320	2500	93	90 - 110	P	03/10/2025	18:29	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Chromium	933	1000	93	90 - 110	P	03/10/2025	18:29	LB134965
	Cobalt	2340	2500	94	90 - 110	P	03/10/2025	18:29	LB134965
	Copper	1200	1250	96	90 - 110	P	03/10/2025	18:29	LB134965
	Iron	4930	5000	99	90 - 110	P	03/10/2025	18:29	LB134965
	Lead	4630	5000	93	90 - 110	P	03/10/2025	18:29	LB134965
	Magnesium	22900	25000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Manganese	2610	2500	104	90 - 110	P	03/10/2025	18:29	LB134965
	Nickel	2350	2500	94	90 - 110	P	03/10/2025	18:29	LB134965
	Potassium	25100	25000	100	90 - 110	P	03/10/2025	18:29	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	4800	5000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Silver	1200	1250	96	90 - 110	P	03/10/2025	18:29	LB134965
	Sodium	23800	25000	95	90 - 110	P	03/10/2025	18:29	LB134965
	Thallium	4760	5000	95	90 - 110	P	03/10/2025	18:29	LB134965
	Vanadium	2330	2500	93	90 - 110	P	03/10/2025	18:29	LB134965
	Zinc	2410	2500	96	90 - 110	P	03/10/2025	18:29	LB134965
CCV09	Aluminum	9210	10000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Antimony	4910	5000	98	90 - 110	P	03/10/2025	18:46	LB134965
	Arsenic	4800	5000	96	90 - 110	P	03/10/2025	18:46	LB134965
	Barium	9700	10000	97	90 - 110	P	03/10/2025	18:46	LB134965
	Beryllium	253	250	101	90 - 110	P	03/10/2025	18:46	LB134965
	Cadmium	2320	2500	93	90 - 110	P	03/10/2025	18:46	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Chromium	923	1000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Cobalt	2340	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Copper	1210	1250	97	90 - 110	P	03/10/2025	18:46	LB134965
	Iron	4910	5000	98	90 - 110	P	03/10/2025	18:46	LB134965
	Lead	4630	5000	93	90 - 110	P	03/10/2025	18:46	LB134965
	Magnesium	22700	25000	91	90 - 110	P	03/10/2025	18:46	LB134965
	Manganese	2540	2500	102	90 - 110	P	03/10/2025	18:46	LB134965
	Nickel	2350	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Potassium	25300	25000	101	90 - 110	P	03/10/2025	18:46	LB134965
	Selenium	4840	5000	97	90 - 110	P	03/10/2025	18:46	LB134965
	Silver	1180	1250	95	90 - 110	P	03/10/2025	18:46	LB134965
	Sodium	24000	25000	96	90 - 110	P	03/10/2025	18:46	LB134965
	Thallium	4750	5000	95	90 - 110	P	03/10/2025	18:46	LB134965
	Vanadium	2340	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Zinc	2360	2500	94	90 - 110	P	03/10/2025	18:46	LB134965

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	02/26/2025	11:22	LB134807
CRI01	Aluminum	98.3	100	98	40 - 160	P	03/10/2025	12:01	LB134965
	Antimony	49.7	50.0	100	40 - 160	P	03/10/2025	12:01	LB134965
	Arsenic	18.2	20.0	91	40 - 160	P	03/10/2025	12:01	LB134965
	Barium	90.9	100	91	40 - 160	P	03/10/2025	12:01	LB134965
	Beryllium	5.47	6.0	91	40 - 160	P	03/10/2025	12:01	LB134965
	Cadmium	5.67	6.0	94	40 - 160	P	03/10/2025	12:01	LB134965
	Calcium	1900	2000	95	40 - 160	P	03/10/2025	12:01	LB134965
	Chromium	10.4	10.0	104	40 - 160	P	03/10/2025	12:01	LB134965
	Cobalt	28.3	30.0	94	40 - 160	P	03/10/2025	12:01	LB134965
	Copper	21.4	20.0	107	40 - 160	P	03/10/2025	12:01	LB134965
	Iron	111	100	111	40 - 160	P	03/10/2025	12:01	LB134965
	Lead	12.0	12.0	100	40 - 160	P	03/10/2025	12:01	LB134965
	Magnesium	1980	2000	99	40 - 160	P	03/10/2025	12:01	LB134965
	Manganese	19.3	20.0	96	40 - 160	P	03/10/2025	12:01	LB134965
	Nickel	37.9	40.0	95	40 - 160	P	03/10/2025	12:01	LB134965
	Potassium	1950	2000	97	40 - 160	P	03/10/2025	12:01	LB134965
	Selenium	21.0	20.0	105	40 - 160	P	03/10/2025	12:01	LB134965
	Silver	10.2	10.0	102	40 - 160	P	03/10/2025	12:01	LB134965
	Sodium	1810	2000	91	40 - 160	P	03/10/2025	12:01	LB134965
	Thallium	39.5	40.0	99	40 - 160	P	03/10/2025	12:01	LB134965
	Vanadium	36.7	40.0	92	40 - 160	P	03/10/2025	12:01	LB134965
	Zinc	41.3	40.0	103	40 - 160	P	03/10/2025	12:01	LB134965

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	249000	255000	98	216000	294000	03/10/2025	12:05	LB134965
	Antimony	-1.69			-50	50	03/10/2025	12:05	LB134965
	Arsenic	3.58			-20	20	03/10/2025	12:05	LB134965
	Barium	1.50	6.0	25	-94	106	03/10/2025	12:05	LB134965
	Beryllium	1.23			-6	6	03/10/2025	12:05	LB134965
	Cadmium	-4.00	1.0	400	-5	7	03/10/2025	12:05	LB134965
	Calcium	230000	245000	94	208000	282000	03/10/2025	12:05	LB134965
	Chromium	59.3	52.0	114	42	62	03/10/2025	12:05	LB134965
	Cobalt	1.96			-30	30	03/10/2025	12:05	LB134965
	Copper	9.85	2.0	492	-18	22	03/10/2025	12:05	LB134965
	Iron	101000	101000	100	85600	116500	03/10/2025	12:05	LB134965
	Lead	6.57			-12	12	03/10/2025	12:05	LB134965
	Magnesium	246000	255000	96	216000	294000	03/10/2025	12:05	LB134965
	Manganese	3.05	7.0	44	-13	27	03/10/2025	12:05	LB134965
	Nickel	2.12	2.0	106	-38	42	03/10/2025	12:05	LB134965
	Potassium	80.0			0	0	03/10/2025	12:05	LB134965
	Selenium	-12.1			-20	20	03/10/2025	12:05	LB134965
	Silver	-0.43			-10	10	03/10/2025	12:05	LB134965
	Sodium	30.5			0	0	03/10/2025	12:05	LB134965
	Thallium	7.69			-40	40	03/10/2025	12:05	LB134965
	Vanadium	4.01			-40	40	03/10/2025	12:05	LB134965
	Zinc	2.96			-40	40	03/10/2025	12:05	LB134965
ICSAB01	Aluminum	248000	247000	100	209000	285000	03/10/2025	12:10	LB134965
	Antimony	630	618	102	525	711	03/10/2025	12:10	LB134965
	Arsenic	110	104	106	88.4	120	03/10/2025	12:10	LB134965
	Barium	483	537	90	437	637	03/10/2025	12:10	LB134965
	Beryllium	489	495	99	420	570	03/10/2025	12:10	LB134965
	Cadmium	1020	972	105	826	1120	03/10/2025	12:10	LB134965
	Calcium	233000	235000	99	199000	271000	03/10/2025	12:10	LB134965
	Chromium	581	542	107	460	624	03/10/2025	12:10	LB134965
	Cobalt	516	476	108	404	548	03/10/2025	12:10	LB134965
	Copper	518	511	101	434	588	03/10/2025	12:10	LB134965
	Iron	102000	99300	103	84400	114500	03/10/2025	12:10	LB134965
	Lead	56.3	49.0	115	37	61	03/10/2025	12:10	LB134965
	Magnesium	250000	248000	101	210000	286000	03/10/2025	12:10	LB134965
	Manganese	475	507	94	430	584	03/10/2025	12:10	LB134965
	Nickel	1020	954	107	810	1100	03/10/2025	12:10	LB134965
	Potassium	87.8			0	0	03/10/2025	12:10	LB134965
	Selenium	34.1	46.0	74	26	66	03/10/2025	12:10	LB134965
	Silver	221	201	110	170	232	03/10/2025	12:10	LB134965
	Sodium	58.9			0	0	03/10/2025	12:10	LB134965
	Thallium	108	108	100	68	148	03/10/2025	12:10	LB134965

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	471	491	96	417	565	03/10/2025	12:10	LB134965
	Zinc	1070	952	112	809	1095	03/10/2025	12:10	LB134965

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1422

contract: PORT06 **lab code:** CHEM **case no.:** Q1422 **sas no.:** Q1422

matrix: Solid **sample id:** Q1421-01 **client id:** P001-CLAY-CF01-01MS

Percent Solids for Sample: 70.3 **Spiked ID:** Q1421-02 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8730		6910		140	1300		P
Antimony	mg/Kg	75 - 125	13.5		3.23	U	55.8	24	N	P
Arsenic	mg/Kg	75 - 125	63.7		13.9		55.8	89		P
Barium	mg/Kg	75 - 125	67.9		53.2		13.9	106		P
Beryllium	mg/Kg	75 - 125	12.4		1.43		13.9	79		P
Cadmium	mg/Kg	75 - 125	12.0		0.39	U	13.9	86		P
Calcium	mg/Kg	75 - 125	4920		4470		69.7	644		P
Chromium	mg/Kg	75 - 125	41.9		15.4		27.9	95		P
Cobalt	mg/Kg	75 - 125	24.3		9.63		13.9	105		P
Copper	mg/Kg	75 - 125	37.9		17.4		20.9	98		P
Iron	mg/Kg	75 - 125	85600	D	70100	D	210	7399		P
Lead	mg/Kg	75 - 125	78.0		14.4		69.7	91		P
Magnesium	mg/Kg	75 - 125	3650		3020		140	449		P
Manganese	mg/Kg	75 - 125	569		492		13.9	560		P
Mercury	mg/Kg	80 - 120	0.52		0.030		0.4	122	N	CV
Nickel	mg/Kg	75 - 125	56.1		20.5		34.9	102		P
Potassium	mg/Kg	75 - 125	4140		3070		700	152		P
Selenium	mg/Kg	75 - 125	91.2		1.29	U	140	65	N	P
Silver	mg/Kg	75 - 125	2.78		0.65	U	5.2	54	N	P
Sodium	mg/Kg	75 - 125	293		102	J	210	91		P
Thallium	mg/Kg	75 - 125	120		5.31		140	82		P
Vanadium	mg/Kg	75 - 125	45.0		23.4		20.9	104		P
Zinc	mg/Kg	75 - 125	91.2		72.9		13.9	132		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1422

contract: PORT06 **lab code:** CHEM **case no.:** Q1422 **sas no.:** Q1422

matrix: Solid **sample id:** Q1421-01 **client id:** P001-CLAY-CF01-01MSD

Percent Solids for Sample: 70.3 **Spiked ID:** Q1421-03 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7930		6910		130	789		P
Antimony	mg/Kg	75 - 125	12.6		3.23	U	50.4	25	N	P
Arsenic	mg/Kg	75 - 125	58.4		13.9		50.4	88		P
Barium	mg/Kg	75 - 125	61.9		53.2		12.6	69		P
Beryllium	mg/Kg	75 - 125	11.3		1.43		12.6	78		P
Cadmium	mg/Kg	75 - 125	10.8		0.39	U	12.6	86		P
Calcium	mg/Kg	75 - 125	4470		4470		62.9	-5		P
Chromium	mg/Kg	75 - 125	38.6		15.4		25.2	92		P
Cobalt	mg/Kg	75 - 125	22.2		9.63		12.6	100		P
Copper	mg/Kg	75 - 125	33.9		17.4		18.9	88		P
Iron	mg/Kg	75 - 125	79700	D	70100	D	190	5059		P
Lead	mg/Kg	75 - 125	71.5		14.4		62.9	91		P
Magnesium	mg/Kg	75 - 125	3320		3020		130	226		P
Manganese	mg/Kg	75 - 125	517		492		12.6	203		P
Mercury	mg/Kg	80 - 120	0.48		0.030		0.38	117		CV
Nickel	mg/Kg	75 - 125	51.2		20.5		31.5	98		P
Potassium	mg/Kg	75 - 125	3830		3070		630	120		P
Selenium	mg/Kg	75 - 125	84.2		1.29	U	130	65	N	P
Silver	mg/Kg	75 - 125	2.75		0.65	U	4.7	58	N	P
Sodium	mg/Kg	75 - 125	271		102	J	190	89		P
Thallium	mg/Kg	75 - 125	112		5.31		130	82		P
Vanadium	mg/Kg	75 - 125	40.9		23.4		18.9	93		P
Zinc	mg/Kg	75 - 125	84.0		72.9		12.6	88		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Matrix: Solid **Level:** LOW **Client ID:** P001-CLAY-CF01-01A

Sample ID: Q1421-01 **Spiked ID:** Q1421-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	11.7		3.23	U	51.7	23		P
Mercury	mg/Kg	80 - 120	0.47		0.030		0.40	109		CV
Selenium	mg/Kg	75 - 125	84.1		1.29	U	130	65		P
Silver	mg/Kg	75 - 125	3.12		0.65	U	4.80	65		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Matrix: Solid **Sample ID:** Q1421-01 **Client ID:** P001-CLAY-CF01-01DUP

Percent Solids for Sample: 70.3 **Duplicate ID** Q1421-01DUP **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6910		7130		3		P
Antimony	mg/Kg	20	3.23	U	3.11	U			P
Arsenic	mg/Kg	20	13.9		16.3		16		P
Barium	mg/Kg	20	53.2		49.9		6		P
Beryllium	mg/Kg	20	1.43		1.48		3		P
Cadmium	mg/Kg	20	0.39	U	0.37	U			P
Calcium	mg/Kg	20	4470		4330		3		P
Chromium	mg/Kg	20	15.4		15.8		3		P
Cobalt	mg/Kg	20	9.63		10.1		5		P
Copper	mg/Kg	20	17.4		19.1		9		P
Iron	mg/Kg	20	70100	D	72500	D	3		P
Lead	mg/Kg	20	14.4		15.7		9		P
Magnesium	mg/Kg	20	3020		3080		2		P
Manganese	mg/Kg	20	492		486		1		P
Mercury	mg/Kg	20	0.030		0.028		7		CV
Nickel	mg/Kg	20	20.5		22.0		7		P
Potassium	mg/Kg	20	3070		2910		5		P
Selenium	mg/Kg	20	1.29	U	1.24	U			P
Silver	mg/Kg	20	0.65	U	0.62	U			P
Sodium	mg/Kg	20	102	J	102	J	0		P
Thallium	mg/Kg	20	5.31		5.10		4		P
Vanadium	mg/Kg	20	23.4		24.8		6		P
Zinc	mg/Kg	20	72.9		70.6		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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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Matrix: Solid **Sample ID:** Q1421-02 **Client ID:** P001-CLAY-CF01-01MSD

Percent Solids for Sample: 70.3 **Duplicate ID** Q1421-03 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	8730		7930		10		P
Antimony	mg/Kg	20	13.5		12.6		7		P
Arsenic	mg/Kg	20	63.7		58.4		9		P
Barium	mg/Kg	20	67.9		61.9		9		P
Beryllium	mg/Kg	20	12.4		11.3		9		P
Cadmium	mg/Kg	20	12.0		10.8		11		P
Calcium	mg/Kg	20	4920		4470		10		P
Chromium	mg/Kg	20	41.9		38.6		8		P
Cobalt	mg/Kg	20	24.3		22.2		9		P
Copper	mg/Kg	20	37.9		33.9		11		P
Iron	mg/Kg	20	85600	D	79700	D	7		P
Lead	mg/Kg	20	78.0		71.5		9		P
Magnesium	mg/Kg	20	3650		3320		9		P
Manganese	mg/Kg	20	569		517		10		P
Mercury	mg/Kg	20	0.52		0.48		8		CV
Nickel	mg/Kg	20	56.1		51.2		9		P
Potassium	mg/Kg	20	4140		3830		8		P
Selenium	mg/Kg	20	91.2		84.2		8		P
Silver	mg/Kg	20	2.78		2.75		1		P
Sodium	mg/Kg	20	293		271		8		P
Thallium	mg/Kg	20	120		112		7		P
Vanadium	mg/Kg	20	45.0		40.9		10		P
Zinc	mg/Kg	20	91.2		84.0		8		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.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166858BS							
Aluminum	mg/Kg	88.9	82.6		93	80 - 120	P
Antimony	mg/Kg	35.6	34.6		97	80 - 120	P
Arsenic	mg/Kg	35.6	33.7		95	80 - 120	P
Barium	mg/Kg	8.9	7.61		86	80 - 120	P
Beryllium	mg/Kg	8.9	9.22		104	80 - 120	P
Cadmium	mg/Kg	8.9	7.90		89	80 - 120	P
Calcium	mg/Kg	44.4	42.3	J	95	80 - 120	P
Chromium	mg/Kg	17.8	17.1		96	80 - 120	P
Cobalt	mg/Kg	8.9	8.25		93	80 - 120	P
Copper	mg/Kg	13.3	13.1		98	80 - 120	P
Iron	mg/Kg	130	126		97	80 - 120	P
Lead	mg/Kg	44.4	40.0		90	80 - 120	P
Magnesium	mg/Kg	88.9	78.9	J	89	80 - 120	P
Manganese	mg/Kg	8.9	9.23		104	80 - 120	P
Nickel	mg/Kg	22.2	20.7		93	80 - 120	P
Potassium	mg/Kg	440	404		92	80 - 120	P
Selenium	mg/Kg	88.9	80.5		91	80 - 120	P
Silver	mg/Kg	3.3	3.15		96	80 - 120	P
Sodium	mg/Kg	130	113		87	80 - 120	P
Thallium	mg/Kg	88.9	80.6		91	80 - 120	P
Vanadium	mg/Kg	13.3	12.2		92	80 - 120	P
Zinc	mg/Kg	8.9	8.56		96	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166864BS							
Mercury	mg/Kg	0.26	0.24		90	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

P001-CLAY-CF01-01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134965 **Lab Sample ID :** Q1421-01L **SDG No.:** Q1422

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	6910		8630		25		P
Antimony	3.23	U	16.2	U			P
Arsenic	13.9		18.6		34		P
Barium	53.2		58.1		9		P
Beryllium	1.43		1.98		39		P
Cadmium	0.39	U	1.94	U			P
Calcium	4470		5410		21		P
Chromium	15.4		20.1		31		P
Cobalt	9.63		10.7		12		P
Copper	17.4		23.9		37		P
Iron	65400	OR	80200		23		P
Lead	14.4		16.8		17		P
Magnesium	3020		3850		27		P
Manganese	492		604		23		P
Mercury	0.030		0.10	U	100.0		CV
Nickel	20.5		24.7		21		P
Potassium	3070		3230		5		P
Selenium	1.29	U	6.47	U			P
Silver	0.65	U	3.23	U			P
Sodium	102	J	647	U	100.0		P
Thallium	5.31		7.11	J	34		P
Vanadium	23.4		31.3		34		P
Zinc	72.9		86.0		18		P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1422 **Sas no.:** Q1422 **Sdg no.:** Q1422

Instrument id number: **Method:** **Run number:** LB134807

Start date: 02/26/2025 **End date:** 02/26/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1052	HG
S0.2	S0.2	1	1054	HG
S2.5	S2.5	1	1058	HG
S5	S5	1	1100	HG
S7.5	S7.5	1	1102	HG
S10	S10	1	1107	HG
ICV19	ICV19	1	1110	HG
ICB19	ICB19	1	1115	HG
CCV25	CCV25	1	1118	HG
CCB25	CCB25	1	1120	HG
CRA	CRA	1	1122	HG
PB166864BL	PB166864BL	1	1132	HG
PB166864BS	PB166864BS	1	1134	HG
CCV26	CCV26	1	1148	HG
CCB26	CCB26	1	1153	HG
Q1421-01DUP	P001-CLAY-CF01-01DUP	1	1207	HG
Q1421-02	P001-CLAY-CF01-01MS	1	1216	HG
Q1421-03	P001-CLAY-CF01-01MSD	1	1221	HG
Q1422-01	B-154-SB01	1	1228	HG
CCV27	CCV27	1	1230	HG
CCB27	CCB27	1	1237	HG
Q1422-02	B-154-SB02	1	1240	HG
Q1421-01L	P001-CLAY-CF01-01L	5	1242	HG
Q1421-01A	P001-CLAY-CF01-01A	1	1244	HG
CCV28	CCV28	1	1246	HG
CCB28	CCB28	1	1249	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1422 **Sas no.:** Q1422 **Sdg no.:** Q1422

Instrument id number: **Method:** **Run number:** LB134965

Start date: 03/10/2025 **End date:** 03/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1117	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	1122	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	1126	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	1130	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	1134	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	1138	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	1148	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	1152	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	1157	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	1201	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	1205	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	1210	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	1227	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	1234	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	1321	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	1325	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	1411	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	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01DUP	P001-CLAY-CF01-01DUP	1	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01L	P001-CLAY-CF01-01L	5	1445	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-02	P001-CLAY-CF01-01MS	1	1449	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-03	P001-CLAY-CF01-01MSD	1	1453	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01A	P001-CLAY-CF01-01A	1	1457	Ag,Sb,Se
CCV04	CCV04	1	1501	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	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1422-01	B-154-SB01	1	1518	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1422-02	B-154-SB02	1	1522	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	1551	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	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166858BL	PB166858BL	1	1633	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166858BS	PB166858BS	1	1644	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	1648	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	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01DUP	P001-CLAY-CF01-01DUP	2	1700	Fe
Q1421-02	P001-CLAY-CF01-01MS	2	1709	Fe
Q1421-03	P001-CLAY-CF01-01MSD	2	1713	Fe
CCV07	CCV07	1	1739	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	1744	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	1829	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	1833	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	1846	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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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1422 **Sas no.:** Q1422 **Sdg no.:** Q1422

Instrument id number: **Method:** **Run number:** LB134965

Start date: 03/10/2025 **End date:** 03/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB09	CCB09	1	1850	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.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25**			**02/25/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/25/25	03/10/25	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25**			**02/25/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/25/25	03/10/25	

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1422 **SAS No.:** Q1422

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166858**						
PB166858BL	PB166858BL	MB	SOLID	02/25/2025	2.27	100.0	100.00
PB166858BS	PB166858BS	LCS	SOLID	02/25/2025	2.25	100.0	100.00
Q1421-01DUP	P001-CLAY-CF01-01DUP	DUP	SOLID	02/25/2025	2.29	100.0	70.30
Q1421-02	P001-CLAY-CF01-01MS	MS	SOLID	02/25/2025	2.04	100.0	70.30
Q1421-03	P001-CLAY-CF01-01MSD	MSD	SOLID	02/25/2025	2.26	100.0	70.30
Q1422-01	B-154-SB01	SAM	SOLID	02/25/2025	2.30	100.0	88.40
Q1422-02	B-154-SB02	SAM	SOLID	02/25/2025	2.26	100.0	87.30

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1422 **SAS No.:** Q1422

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166864**						
PB166864BL	PB166864BL	MB	SOLID	02/25/2025	0.56	35.0	100.00
PB166864BS	PB166864BS	LCS	SOLID	02/25/2025	0.54	35.0	100.00
Q1421-01DUP	P001-CLAY-CF01-01DUP	DUP	SOLID	02/25/2025	0.51	35.0	70.30
Q1421-02	P001-CLAY-CF01-01MS	MS	SOLID	02/25/2025	0.50	35.0	70.30
Q1421-03	P001-CLAY-CF01-01MSD	MSD	SOLID	02/25/2025	0.52	35.0	70.30
Q1422-01	B-154-SB01	SAM	SOLID	02/25/2025	0.50	35.0	88.40
Q1422-02	B-154-SB02	SAM	SOLID	02/25/2025	0.54	35.0	87.30

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/26/25 10:52		Mohan	OK
2	S0.2	S0.2	CAL2	02/26/25 10:54		Mohan	OK
3	S2.5	S2.5	CAL3	02/26/25 10:58		Mohan	OK
4	S5	S5	CAL4	02/26/25 11:00		Mohan	OK
5	S7.5	S7.5	CAL5	02/26/25 11:02		Mohan	OK
6	S10	S10	CAL6	02/26/25 11:07		Mohan	OK
7	ICV19	ICV19	ICV	02/26/25 11:10		Mohan	OK
8	ICB19	ICB19	ICB	02/26/25 11:15		Mohan	OK
9	CCV25	CCV25	CCV	02/26/25 11:18		Mohan	OK
10	CCB25	CCB25	CCB	02/26/25 11:20		Mohan	OK
11	CRA	CRA	CRDL	02/26/25 11:22		Mohan	OK
12	HighStd	HighStd	HIGH STD	02/26/25 11:24		Mohan	OK
13	ChkStd	ChkStd	SAM	02/26/25 11:27		Mohan	OK
14	PB166864BL	PB166864BL	MB	02/26/25 11:32		Mohan	OK
15	PB166864BS	PB166864BS	LCS	02/26/25 11:34		Mohan	OK
16	Q1415-01	B-163-SB01	SAM	02/26/25 11:36		Mohan	OK
17	Q1415-02	B-172-SB01	SAM	02/26/25 11:39		Mohan	OK
18	Q1415-03	B-163-SB02	SAM	02/26/25 11:41		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

19	Q1415-04	B-172-SB02	SAM	02/26/25 11:43		Mohan	OK
20	Q1416-01	OK-01-022425	SAM	02/26/25 11:46		Mohan	OK
21	CCV26	CCV26	CCV	02/26/25 11:48		Mohan	OK
22	CCB26	CCB26	CCB	02/26/25 11:53		Mohan	OK
23	Q1418-01	TR-06-02242025	SAM	02/26/25 11:55		Mohan	OK
24	Q1420-01	TP-1-WC	SAM	02/26/25 11:57		Mohan	OK
25	Q1420-05	TP-2-WC	SAM	02/26/25 12:00		Mohan	OK
26	Q1421-01	P001-CLAY-CF01-01	SAM	02/26/25 12:02		Mohan	OK
27	Q1421-01DUP	P001-CLAY-CF01-01D	DUP	02/26/25 12:07		Mohan	OK
28	Q1421-02	P001-CLAY-CF01-01M	MS	02/26/25 12:16		Mohan	OK
29	Q1421-03	P001-CLAY-CF01-01M	MSD	02/26/25 12:21		Mohan	OK
30	Q1421-07	P001-CLAY-CF01-02	SAM	02/26/25 12:23		Mohan	OK
31	Q1421-09	P001-CLAY-CF02-01	SAM	02/26/25 12:26		Mohan	OK
32	Q1422-01	B-154-SB01	SAM	02/26/25 12:28		Mohan	OK
33	CCV27	CCV27	CCV	02/26/25 12:30		Mohan	OK
34	CCB27	CCB27	CCB	02/26/25 12:37		Mohan	OK
35	Q1422-02	B-154-SB02	SAM	02/26/25 12:40		Mohan	OK
36	Q1421-01L	P001-CLAY-CF01-01L	SD	02/26/25 12:42		Mohan	OK
37	Q1421-01A	P001-CLAY-CF01-01A	PS	02/26/25 12:44		Mohan	OK
38	CCV28	CCV28	CCV	02/26/25 12:46		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

39	CCB28	CCB28	CCB	02/26/25 12:49		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/10/25 11:17		Kareem	OK
2	S1	S1	CAL2	03/10/25 11:22		Kareem	OK
3	S2	S2	CAL3	03/10/25 11:26		Kareem	OK
4	S3	S3	CAL4	03/10/25 11:30		Kareem	OK
5	S4	S4	CAL5	03/10/25 11:34		Kareem	OK
6	S5	S5	CAL6	03/10/25 11:38		Kareem	OK
7	ICV01	ICV01	ICV	03/10/25 11:48		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/10/25 11:52		Kareem	OK
9	ICB01	ICB01	ICB	03/10/25 11:57		Kareem	OK
10	CRI01	CRI01	CRDL	03/10/25 12:01		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/10/25 12:05		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/10/25 12:10		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/10/25 12:14		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/10/25 12:18		Kareem	OK
15	CCV01	CCV01	CCV	03/10/25 12:27		Kareem	OK
16	CCB01	CCB01	CCB	03/10/25 12:34		Kareem	OK
17	Q1489-16MSD	TP-4MSD	MSD	03/10/25 12:38		Kareem	OK
18	Q1489-16A	TP-4A	PS	03/10/25 12:42		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 # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1478-13	IDW-SO-COMP-0228	SAM	03/10/25 12:46		Kareem	OK
20	Q1481-01	WC-K1311	SAM	03/10/25 12:51		Kareem	OK
21	Q1489-12	TP-3	SAM	03/10/25 12:55		Kareem	OK
22	Q1489-16	TP-4	SAM	03/10/25 12:59		Kareem	OK
23	Q1489-16DUP	TP-4DUP	DUP	03/10/25 13:04		Kareem	OK
24	Q1489-16L	TP-4L	SD	03/10/25 13:08		Kareem	OK
25	Q1489-16MS	TP-4MS	MS	03/10/25 13:12		Kareem	OK
26	Q1415-05	FB02222025	SAM	03/10/25 13:17		Kareem	OK
27	CCV02	CCV02	CCV	03/10/25 13:21		Kareem	OK
28	CCB02	CCB02	CCB	03/10/25 13:25		Kareem	OK
29	Q1415-05DUP	FB02222025DUP	DUP	03/10/25 13:29		Kareem	OK
30	Q1415-05L	FB02222025L	SD	03/10/25 13:34		Kareem	OK
31	Q1415-05MS	FB02222025MS	MS	03/10/25 13:38		Kareem	OK
32	Q1415-05MSD	FB02222025MSD	MSD	03/10/25 13:42		Kareem	OK
33	Q1415-05A	FB02222025A	PS	03/10/25 13:46		Kareem	OK
34	Q1415-06	B-173-GW01	SAM	03/10/25 13:50		Kareem	OK
35	Q1421-04	P001-CLAY-CF01-01	SAM	03/10/25 13:55	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
36	Q1421-04DUP	P001-CLAY-CF01-01D	DUP	03/10/25 13:59	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
37	Q1421-04L	P001-CLAY-CF01-01L	SD	03/10/25 14:03	MS/MSD fail for more than 50% parameters	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

38	Q1421-05	P001-CLAY-CF01-01	MS	03/10/25 14:07	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
39	CCV03	CCV03	CCV	03/10/25 14:11		Kareem	OK
40	CCB03	CCB03	CCB	03/10/25 14:15		Kareem	OK
41	Q1421-06	P001-CLAY-CF01-01	MSD	03/10/25 14:20	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
42	Q1421-04A	P001-CLAY-CF01-01A	PS	03/10/25 14:24	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
43	Q1421-08	P001-CLAY-CF01-02	SAM	03/10/25 14:28		Kareem	OK
44	Q1421-10	P001-CLAY-CF02-01	SAM	03/10/25 14:32		Kareem	OK
45	Q1421-01	P001-CLAY-CF01-01	SAM	03/10/25 14:36	Fe high	Kareem	Dilution
46	Q1421-01DUP	P001-CLAY-CF01-01D	DUP	03/10/25 14:41	Fe high	Kareem	Dilution
47	Q1421-01L	P001-CLAY-CF01-01L	SD	03/10/25 14:45		Kareem	OK
48	Q1421-02	P001-CLAY-CF01-01	MS	03/10/25 14:49	Fe high	Kareem	Dilution
49	Q1421-03	P001-CLAY-CF01-01	MSD	03/10/25 14:53	Fe high	Kareem	Dilution
50	Q1421-01A	P001-CLAY-CF01-01A	PS	03/10/25 14:57		Kareem	OK
51	CCV04	CCV04	CCV	03/10/25 15:01		Kareem	OK
52	CCB04	CCB04	CCB	03/10/25 15:05		Kareem	OK
53	Q1421-07	P001-CLAY-CF01-02	SAM	03/10/25 15:10	Fe high, Ag (oversaturated)	Kareem	Dilution
54	Q1421-09	P001-CLAY-CF02-01	SAM	03/10/25 15:14		Kareem	OK
55	Q1422-01	B-154-SB01	SAM	03/10/25 15:18		Kareem	OK
56	Q1422-02	B-154-SB02	SAM	03/10/25 15:22		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

57	Q1429-01	OUTFALL-DSN-001	SAM	03/10/25 15:26		Kareem	OK
58	Q1429-01DUP	OUTFALL-DSN-001D	DUP	03/10/25 15:31		Kareem	OK
59	Q1429-01L	OUTFALL-DSN-001L	SD	03/10/25 15:35		Kareem	OK
60	Q1429-01MS	OUTFALL-DSN-001M	MS	03/10/25 15:39		Kareem	OK
61	Q1429-01MSD	OUTFALL-DSN-001M	MSD	03/10/25 15:43		Kareem	OK
62	Q1429-01A	OUTFALL-DSN-001A	PS	03/10/25 15:47		Kareem	OK
63	CCV05	CCV05	CCV	03/10/25 15:51		Kareem	OK
64	CCB05	CCB05	CCB	03/10/25 15:55		Kareem	OK
65	Q1429-02	OUTFALL-DSN-002	SAM	03/10/25 16:00		Kareem	OK
66	Q1415-02DL	B-172-SB01DL	SAM	03/10/25 16:04	2x for Mn	Kareem	Confirms
67	PB166968TB	PB166968TB	MB	03/10/25 16:08		Kareem	OK
68	PB166990BL	PB166990BL	MB	03/10/25 16:12		Kareem	OK
69	PB166990BS	PB166990BS	LCS	03/10/25 16:17		Kareem	OK
70	PB166878TB	PB166878TB	MB	03/10/25 16:21		Kareem	OK
71	PB166878BL	PB166878BL	MB	03/10/25 16:25		Kareem	OK
72	PB166878BS	PB166878BS	LCS	03/10/25 16:29		Kareem	OK
73	PB166858BL	PB166858BL	MB	03/10/25 16:33		Kareem	OK
74	PB166858BS	PB166858BS	LCS	03/10/25 16:44		Kareem	OK
75	CCV06	CCV06	CCV	03/10/25 16:48		Kareem	OK
76	CCB06	CCB06	CCB	03/10/25 16:52		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

77	Q1421-01DL	P001-CLAY-CF01-01D	SAM	03/10/25 16:56	2x for Fe	Kareem	Confirms
78	Q1421-01DUPDL	P001-CLAY-CF01-01D	DUP	03/10/25 17:00	2x for Fe	Kareem	Confirms
79	Q1421-01LDL	P001-CLAY-CF01-01L	SD	03/10/25 17:05	NOT REQUIRED	Kareem	Not Ok
80	Q1421-02DL	P001-CLAY-CF01-01M	MS	03/10/25 17:09	2x for Fe	Kareem	Confirms
81	Q1421-03DL	P001-CLAY-CF01-01M	MSD	03/10/25 17:13	2x for Fe	Kareem	Confirms
82	Q1421-01ADL	P001-CLAY-CF01-01A	PS	03/10/25 17:17	NOT REQUIRED	Kareem	Not Ok
83	Q1421-07DL	P001-CLAY-CF01-02D	SAM	03/10/25 17:21	2x for Fe,Ag	Kareem	Confirms
84	Q1421-09DL	P001-CLAY-CF02-01D	SAM	03/10/25 17:26	NOT USE	Kareem	Not Ok
85	PB166927TB	PB166927TB	MB	03/10/25 17:30		Kareem	OK
86	PB166859BL	PB166859BL	MB	03/10/25 17:34		Kareem	OK
87	CCV07	CCV07	CCV	03/10/25 17:39		Kareem	OK
88	CCB07	CCB07	CCB	03/10/25 17:44		Kareem	OK
89	PB166859BS	PB166859BS	LCS	03/10/25 17:48		Kareem	OK
90	Q1524-01	72-11930-343-COMP	SAM	03/10/25 17:52		Kareem	OK
91	Q1524-01DUP	72-11930-343-COMPD	DUP	03/10/25 17:56		Kareem	OK
92	Q1524-01L	72-11930-343-COMPL	SD	03/10/25 18:00		Kareem	OK
93	Q1524-01MS	72-11930-343-COMPM	MS	03/10/25 18:04		Kareem	OK
94	Q1524-01MSD	72-11930-343-COMPM	MSD	03/10/25 18:08		Kareem	OK
95	Q1524-01A	72-11930-343-COMPA	PS	03/10/25 18:12		Kareem	OK
96	Q1524-02	VNJ-241	SAM	03/10/25 18:16		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

97	PB167039BL	PB167039BL	MB	03/10/25 18:20		Kareem	OK
98	PB167039BS	PB167039BS	LCS	03/10/25 18:25		Kareem	OK
99	CCV08	CCV08	CCV	03/10/25 18:29		Kareem	OK
100	CCB08	CCB08	CCB	03/10/25 18:33		Kareem	OK
101	LR1	LR1	HIGH STD	03/10/25 18:37		Kareem	OK
102	LR2	LR2	HIGH STD	03/10/25 18:42		Kareem	OK
103	CCV09	CCV09	CCV	03/10/25 18:46		Kareem	OK
104	CCB09	CCB09	CCB	03/10/25 18:50		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166858

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: 02/25/2025 **Time :** 10:05 **Temp :** 96 °C

End Digest Date: 02/25/2025 **Time :** 12:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLG.

Supervisor Signature: JP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6002
LFS-2	1.00	M6011
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	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
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
02/25/25 13:20	SLG. met dig	JB / MA DIG
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166858

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166858BL	PBS858	N/A	2.27	100	Colorless	Colorless	Fine	N/A	N/A	1
PB166858BS	LCS858	N/A	2.25	100	Colorless	Colorless	Fine	N/A	M6002,M6011	2
Q1416-01	OK-01-022425	N/A	2.43	100	Brown	Yellow	Medium	N/A	N/A	3
Q1418-01	TR-06-02242025	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	4
Q1420-01	TP-1-WC	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	5
Q1420-05	TP-2-WC	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	6
Q1421-01	P001-CLAY-CF01-01	N/A	2.20	100	Black	Yellow	Medium	N/A	N/A	7
Q1421-01DUP	P001-CLAY-CF01-01DUP	N/A	2.29	100	Black	Yellow	Medium	N/A	N/A	8
Q1421-02	Q1421-01MS	N/A	2.04	100	Black	Yellow	Medium	N/A	M6002,M6011	9
Q1421-03	Q1421-01MSD	N/A	2.26	100	Black	Yellow	Medium	N/A	M6002,M6011	10
Q1421-07	P001-CLAY-CF01-02	N/A	2.31	100	Black	Yellow	Medium	N/A	N/A	11
Q1421-09	P001-CLAY-CF02-01	N/A	2.22	100	Black	Yellow	Medium	N/A	N/A	12
Q1422-01	B-154-SB01	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	13
Q1422-02	B-154-SB02	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	14

A B C D E F G H I J

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166864

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: 02/25/2025 **Time :** 13:30 **Temp :** 95 °C

End Digest Date: 02/25/2025 **Time :** 14:00 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JV

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84626
CCV	30mL	MP84628
CRA	30mL	MP84630
Blank Spike	0.48mL	MP84619
Matrix Spike	0.48mL	MP84619

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP84632
KMnO4 (5%)	4.5mL	MP84564
Hydroxylamine HCL (12%)	2.0mL	MP84565
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	MP84620
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84621
2.5 ppb	S2.5	30mL	MP84622
5.0 ppb	S5.0	30mL	MP84623
7.5 ppb	S7.5	30mL	MP84624
10.0 ppb	S10.0	30mL	MP84625
ICV	ICV	30mL	MP84626
ICB	ICB	30mL	MP84627
CCV	CCV	30mL	MP84628
CCB	CCB	30mL	MP84629
CRI	CRI	30mL	MP84630
CHK STD	CHK STD	30mL	MP84631

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25 @ 14:40	MB- Dig. Lab	MB- Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166864

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB166864BL	PBS864	0.56	35	NA	N/A	N/A
PB166864BS	LCS864	0.54	35	NA	MP84619	N/A
Q1415-01	B-163-SB01	0.50	35	NA	N/A	N/A
Q1415-02	B-172-SB01	0.51	35	NA	N/A	N/A
Q1415-03	B-163-SB02	0.52	35	NA	N/A	N/A
Q1415-04	B-172-SB02	0.51	35	NA	N/A	N/A
Q1416-01	OK-01-022425	0.53	35	NA	N/A	N/A
Q1418-01	TR-06-02242025	0.50	35	NA	N/A	N/A
Q1420-01	TP-1-WC	0.50	35	NA	N/A	N/A
Q1420-05	TP-2-WC	0.54	35	NA	N/A	N/A
Q1421-01	P001-CLAY-CF01-01	0.50	35	NA	N/A	N/A
Q1421-01DUP	P001-CLAY-CF01-01DUP	0.51	35	NA	N/A	N/A
Q1421-02	Q1421-01MS	0.50	35	NA	MP84619	N/A
Q1421-03	Q1421-01MSD	0.52	35	NA	MP84619	N/A
Q1421-07	P001-CLAY-CF01-02	0.52	35	NA	N/A	N/A
Q1421-09	P001-CLAY-CF02-01	0.54	35	NA	N/A	N/A
Q1422-01	B-154-SB01	0.50	35	NA	N/A	N/A
Q1422-02	B-154-SB02	0.54	35	NA	N/A	N/A

A B C D E F G H I J

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:	02/23/25 15:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
		% Solid:	88.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.087	U	1	0.087	0.44	mg/Kg	02/26/25 10:40	02/26/25 15:26	7196A
Trivalent Chromium	11.5		1	0.57	0.57	mg/Kg		03/10/25 15:18	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

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:	02/23/25 15:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
		% Solid:	87.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.088	U	1	0.088	0.45	mg/Kg	02/26/25 10:40	02/26/25 15:27	7196A
Trivalent Chromium	10.5		1	0.57	0.57	mg/Kg		03/10/25 15:22	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

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

Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB134815

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	02/26/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	02/26/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/26/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/26/2025

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB134815

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB166851BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	02/26/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1422
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01MS
Percent Solids for Spike Sample: 88.5

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	1370		0.087	U	1450	40	94		02/26/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1422
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01MS
Percent Solids for Spike Sample: 88.5

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	43.4		0.087	U	45.2	2	96		02/26/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1422
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01MS
Percent Solids for Spike Sample: 88.5

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	37.8		0.087	U	45.2	2	84		02/26/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1422
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01DUP
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.087	U	0.087	U	1	0		02/26/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1422
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB134815

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB166851BS								
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	02/26/2025

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134815

Review By	rubina	Review On	2/27/2025 9:48:52 AM
Supervise By	Iwona	Supervise On	3/7/2025 8:57:36 AM
SubDirectory	LB134815	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	WP112061,WP110380,WP110381,WP111249

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	02/26/25 15:00		rubina	OK
2	CAL2	CAL2	CAL	02/26/25 15:01		rubina	OK
3	CAL3	CAL3	CAL	02/26/25 15:02		rubina	OK
4	CAL4	CAL4	CAL	02/26/25 15:03		rubina	OK
5	CAL5	CAL5	CAL	02/26/25 15:04		rubina	OK
6	CAL6	CAL6	CAL	02/26/25 15:05		rubina	OK
7	CAL7	CAL7	CAL	02/26/25 15:06		rubina	OK
8	ICV	ICV	ICV	02/26/25 15:07		rubina	OK
9	ICB	ICB	ICB	02/26/25 15:08		rubina	OK
10	CCV1	CCV1	CCV	02/26/25 15:09		rubina	OK
11	CCB1	CCB1	CCB	02/26/25 15:10		rubina	OK
12	RL Check	RL Check	SAM	02/26/25 15:11		rubina	OK
13	PB166851BL	PB166851BL	MB	02/26/25 15:12		rubina	OK
14	PB166851BS	PB166851BS	LCS	02/26/25 15:13		rubina	OK
15	Q1415-01	B-163-SB01	SAM	02/26/25 15:14		rubina	OK
16	Q1415-01DUP	B-163-SB01DUP	DUP	02/26/25 15:15		rubina	OK
17	Q1415-01MSPre	B-163-SB01MS	MS	02/26/25 15:16		rubina	OK
18	Q1415-01MS2Ins	B-163-SB01MS	MS	02/26/25 15:17		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134815

Review By	rubina	Review On	2/27/2025 9:48:52 AM
Supervise By	Iwona	Supervise On	3/7/2025 8:57:36 AM
SubDirectory	LB134815	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	WP112061,WP110380,WP110381,WP111249

19	Q1415-01MS3Post	B-163-SB01MS	MS	02/26/25 15:18		rubina	OK
20	Q1415-02	B-172-SB01	SAM	02/26/25 15:19		rubina	OK
21	Q1415-03	B-163-SB02	SAM	02/26/25 15:20		rubina	OK
22	Q1415-04	B-172-SB02	SAM	02/26/25 15:21		rubina	OK
23	CCV2	CCV2	CCV	02/26/25 15:22		rubina	OK
24	CCB2	CCB2	CCB	02/26/25 15:23		rubina	OK
25	Q1420-01	TP-1-WC	SAM	02/26/25 15:24		rubina	OK
26	Q1420-05	TP-2-WC	SAM	02/26/25 15:25		rubina	OK
27	Q1422-01	B-154-SB01	SAM	02/26/25 15:26		rubina	OK
28	Q1422-02	B-154-SB02	SAM	02/26/25 15:27		rubina	OK
29	Q1427-01	VNJ-227	SAM	02/26/25 15:28		rubina	OK
30	Q1428-01	NB-07-022525	SAM	02/26/25 15:29		rubina	OK
31	CCV3	CCV3	CCV	02/26/25 15:30		rubina	OK
32	CCB3	CCB3	CCB	02/26/25 15:31		rubina	OK

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LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25 15:00**			**02/25/25**
			Hexavalent Chromium	7196A		02/26/25	02/26/25 15:26	
			Trivalent Chromium	6010D			03/10/25 15:18	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25 15:30**			**02/25/25**
			Hexavalent Chromium	7196A		02/26/25	02/26/25 15:27	
			Trivalent Chromium	6010D			03/10/25 15:22	

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB166851

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 02/26/2025 **Time :** 10:40 **Temp :** 90 °C

End Digest Date: 02/26/2025 **Time :** 11:40 **Temp :** 95 °C

I Vbetch 02/26/2025 12:00 90c JRM
02/26/2025 13:00 95c

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: RMP

Supervisor Signature: JZ

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	50.0ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP111908
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	WP112057
CAL3	CAL3	0.5ML	WP112057
CAL4	CAL4	1ML	WP112057
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:

N/A

02/26/2025 RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB166851

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166851BL	PBS851	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB166851BS	LCS851	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01	B-163-SB01	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01DUP	B-163-SB01DUP	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MSPre	B-163-SB01MSPRE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MS2Ins	B-163-SB01MS2INS	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MS3Post	B-163-SB01MS3POST	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-02	B-172-SB01	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-03	B-163-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-04	B-172-SB02	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1420-01	TP-1-WC	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1420-05	TP-2-WC	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1422-01	B-154-SB01	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1422-02	B-154-SB02	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1427-01	VNJ-227	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1428-01	NB-07-022525	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A