

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-23	PT-VOA-SOIL	SOIL	VOCMS Group1	8260D	10/21/24		10/31/24	10/23/24
P4495-23DL	PT-VOA-SOILDL	SOIL	VOCMS Group1	8260D	10/21/24		10/31/24	10/23/24

Hit Summary Sheet
SW-846

SDG No.: P4495
Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	PT-VOA-SOIL							
P4495-23	PT-VOA-SOIL	SOIL	1,1-Dichloroethene	130		0.78	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Acetone	300		6.20	25.0	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Methyl tert-butyl Ether	140		0.67	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	trans-1,2-Dichloroethene	29.3		0.84	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	2-Butanone	170		5.70	25.0	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Total 1,2-Dichloroethene	29.3		1.45	10.0	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Chloroform	190	E	0.67	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,1,1-Trichloroethane	120		0.78	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Benzene	130		0.72	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,2-Dichloroethane	150	E	0.61	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Trichloroethene	73.0		0.75	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,2-Dichloropropane	38.7		0.66	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Dibromomethane	31.9		0.62	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Bromodichloromethane	49.4		0.56	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	4-Methyl-2-Pentanone	460		4.40	25.0	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Toluene	72.9		0.67	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	t-1,3-Dichloropropene	46.2		0.60	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	cis-1,3-Dichloropropene	140		0.57	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,1,2-Trichloroethane	59.3		0.84	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	2-Hexanone	420		4.80	25.0	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,2-Dibromoethane	78.8		0.79	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,1,1,2-Tetrachloroethane	190	E	0.64	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Ethyl Benzene	150	E	0.62	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Total Xylenes	230		2.10	15.0	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	m/p-Xylenes	110		1.40	10.0	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	o-Xylene	120		0.70	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Styrene	200	E	0.60	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Bromoform	100		0.81	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,1,2,2-Tetrachloroethane	81.8		1.10	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	tert-Butylbenzene	68.8		0.67	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,2,4-Trimethylbenzene	150	E	1.40	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,4-Dichlorobenzene	140		0.80	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,2-Dibromo-3-Chloropropane	110		1.60	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	Naphthalene	66.5		1.50	5.00	ug/Kg
P4495-23	PT-VOA-SOIL	SOIL	1,2,3-Trichlorobenzene	120		0.78	5.00	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Voc :				4440				
Total Concentration:				4440				
Client ID:	PT-VOA-SOILDL							
P4495-23DL	PT-VOA-SOILDL	SOIL	1,1-Dichloroethene	120	D	1.60	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Acetone	300	D	12.5	50.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Methyl tert-butyl Ether	140	D	1.30	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	trans-1,2-Dichloroethene	26.7	D	1.70	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	2-Butanone	180	D	11.4	50.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Total 1,2-Dichloroethene	26.7	D	2.90	20.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Chloroform	190	D	1.30	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,1,1-Trichloroethane	110	D	1.60	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Benzene	120	D	1.40	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,2-Dichloroethane	150	D	1.20	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Trichloroethene	66.5	D	1.50	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,2-Dichloropropane	36.0	D	1.30	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Dibromomethane	31.0	D	1.20	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Bromodichloromethane	46.1	D	1.10	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	4-Methyl-2-Pentanone	460	D	8.70	50.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Toluene	67.6	D	1.30	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	t-1,3-Dichloropropene	43.4	D	1.20	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	cis-1,3-Dichloropropene	130	D	1.10	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,1,2-Trichloroethane	58.7	D	1.70	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	2-Hexanone	420	D	9.60	50.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,2-Dibromoethane	76.8	D	1.60	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,1,1,2-Tetrachloroethane	170	D	1.30	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Ethyl Benzene	130	D	1.20	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Total Xylenes	210	D	4.10	30.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	m/p-Xylenes	100	D	2.70	20.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	o-Xylene	110	D	1.40	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Styrene	180	D	1.20	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Bromoform	92.0	D	1.60	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,1,2,2-Tetrachloroethane	78.9	D	2.20	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	tert-Butylbenzene	60.6	D	1.30	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,2,4-Trimethylbenzene	140	D	2.70	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,4-Dichlorobenzene	130	D	1.60	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	1,2-Dibromo-3-Chloropropane	110	D	3.10	10.0	ug/Kg
P4495-23DL	PT-VOA-SOILDL	SOIL	Naphthalene	60.4	D	3.00	10.0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4495-23DL	PT-VOA-SOILDL	SOIL	1,2,3-Trichlorobenzene	110	D	1.60	10.0	ug/Kg
			Total Voc :	4240				
			Total Concentration:	4240				



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-VOA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-23	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020089.D	1		10/31/24 13:05	VY103124

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
141-78-6	Ethyl Acetate	1.10	U	1.10	5.00	ug/Kg
108-21-4	Isopropyl Acetate	0.86	U	0.86	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
109-99-9	Tetrahydrofuran	5.20	UQ	5.20	25.0	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
75-65-0	Tert butyl alcohol	15.6	U	15.6	25.0	ug/Kg
60-29-7	Diethyl Ether	0.64	UQ	0.64	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	130		0.78	5.00	ug/Kg
107-02-8	Acrolein	5.80	U	5.80	25.0	ug/Kg
107-13-1	Acrylonitrile	5.00	U	5.00	25.0	ug/Kg
67-64-1	Acetone	300		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	140		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	29.3		0.84	5.00	ug/Kg
108-05-4	Vinyl Acetate	2.80	U	2.80	25.0	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	170		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
594-20-7	2,2-Dichloropropane	1.60	U	1.60	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
540-59-0	Total 1,2-Dichloroethene	29.3		1.45	10.0	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-VOA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-23	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020089.D	1		10/31/24 13:05	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
67-66-3	Chloroform	190	E	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	120		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
563-58-6	1,1-Dichloropropene	0.73	U	0.73	5.00	ug/Kg
71-43-2	Benzene	130		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	150	E	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	73.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	38.7		0.66	5.00	ug/Kg
74-95-3	Dibromomethane	31.9		0.62	5.00	ug/Kg
75-27-4	Bromodichloromethane	49.4		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	460		4.40	25.0	ug/Kg
80-62-6	Methyl methacrylate	0.74	U	0.74	5.00	ug/Kg
108-88-3	Toluene	72.9		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	46.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	140		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	59.3		0.84	5.00	ug/Kg
142-28-9	1,3-Dichloropropane	0.59	U	0.59	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	12.8	U	12.8	25.0	ug/Kg
591-78-6	2-Hexanone	420		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	78.8		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
630-20-6	1,1,1,2-Tetrachloroethane	190	E	0.64	5.00	ug/Kg
67-72-1	Hexachloroethane	0.80	U	0.80	5.00	ug/Kg
100-41-4	Ethyl Benzene	150	E	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	110		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	230		2.10	15.0	ug/Kg
95-47-6	o-Xylene	120		0.70	5.00	ug/Kg
100-42-5	Styrene	200	E	0.60	5.00	ug/Kg
75-25-2	Bromoform	100		0.81	5.00	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-VOA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-23	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020089.D	1		10/31/24 13:05	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	81.8		1.10	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	1.20	U	1.20	5.00	ug/Kg
108-86-1	Bromobenzene	0.65	U	0.65	5.00	ug/Kg
103-65-1	n-propylbenzene	0.64	U	0.64	5.00	ug/Kg
95-49-8	2-Chlorotoluene	0.62	U	0.62	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.64	U	0.64	5.00	ug/Kg
106-43-4	4-Chlorotoluene	0.59	U	0.59	5.00	ug/Kg
98-06-6	tert-Butylbenzene	68.8		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	150	E	1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	0.58	U	0.58	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	140		0.80	5.00	ug/Kg
104-51-8	n-Butylbenzene	0.63	U	0.63	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	110		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-68-3	Hexachlorobutadiene	0.81	U	0.81	5.00	ug/Kg
91-20-3	Naphthalene	66.5		1.50	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	120		0.78	5.00	ug/Kg
628-63-7	N-amyl acetate	0.95	U	0.95	5.00	ug/Kg
74-88-4	Methyl Iodide	0.80	U	0.80	5.00	ug/Kg
107-05-1	Allyl chloride	0.57	U	0.57	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.80	U	0.80	5.00	ug/Kg
126-98-7	Methacrylonitrile	1.50	UQ	1.50	5.00	ug/Kg
97-63-2	Ethyl methacrylate	0.73	U	0.73	5.00	ug/Kg
108-20-3	Diisopropyl ether	0.57	U	0.57	5.00	ug/Kg
123-91-1	1,4-Dioxane	42.5	U	42.5	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		50 - 163	100%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-VOA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-23	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020089.D	1		10/31/24 13:05	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	50.5		54 - 147	101%	SPK: 50
2037-26-5	Toluene-d8	52.1		58 - 134	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		29 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	7.713			
540-36-3	1,4-Difluorobenzene	445000	8.616			
3114-55-4	Chlorobenzene-d5	375000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.346			

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-VOA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-23DL	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020091.D	2		10/31/24 13:51	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.30	UD	3.30	10.0	ug/Kg
74-87-3	Chloromethane	2.30	UD	2.30	10.0	ug/Kg
75-01-4	Vinyl Chloride	1.50	UD	1.50	10.0	ug/Kg
141-78-6	Ethyl Acetate	2.20	UD	2.20	10.0	ug/Kg
108-21-4	Isopropyl Acetate	1.70	UD	1.70	10.0	ug/Kg
74-83-9	Bromomethane	2.10	UD	2.10	10.0	ug/Kg
75-00-3	Chloroethane	2.00	UD	2.00	10.0	ug/Kg
109-99-9	Tetrahydrofuran	10.5	UDQ	10.5	50.0	ug/Kg
75-69-4	Trichlorofluoromethane	1.80	UD	1.80	10.0	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10	UD	2.10	10.0	ug/Kg
75-65-0	Tert butyl alcohol	31.2	UD	31.2	50.0	ug/Kg
60-29-7	Diethyl Ether	1.30	UDQ	1.30	10.0	ug/Kg
75-35-4	1,1-Dichloroethene	120	D	1.60	10.0	ug/Kg
107-02-8	Acrolein	11.7	UD	11.7	50.0	ug/Kg
107-13-1	Acrylonitrile	10.0	UD	10.0	50.0	ug/Kg
67-64-1	Acetone	300	D	12.5	50.0	ug/Kg
75-15-0	Carbon Disulfide	2.60	UD	2.60	10.0	ug/Kg
1634-04-4	Methyl tert-butyl Ether	140	D	1.30	10.0	ug/Kg
79-20-9	Methyl Acetate	3.60	UD	3.60	10.0	ug/Kg
75-09-2	Methylene Chloride	6.80	UD	6.80	20.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	26.7	D	1.70	10.0	ug/Kg
108-05-4	Vinyl Acetate	5.70	UD	5.70	50.0	ug/Kg
75-34-3	1,1-Dichloroethane	1.30	UD	1.30	10.0	ug/Kg
110-82-7	Cyclohexane	1.40	UD	1.40	10.0	ug/Kg
78-93-3	2-Butanone	180	D	11.4	50.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	UD	1.70	10.0	ug/Kg
594-20-7	2,2-Dichloropropane	3.20	UD	3.20	10.0	ug/Kg
540-59-0	Total 1,2-Dichloroethene	26.7	D	2.90	20.0	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.20	UD	1.20	10.0	ug/Kg
74-97-5	Bromochloromethane	4.80	UD	4.80	10.0	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-VOA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-23DL	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020091.D	2		10/31/24 13:51	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
67-66-3	Chloroform	190	D	1.30	10.0	ug/Kg
71-55-6	1,1,1-Trichloroethane	110	D	1.60	10.0	ug/Kg
108-87-2	Methylcyclohexane	1.70	UD	1.70	10.0	ug/Kg
563-58-6	1,1-Dichloropropene	1.50	UD	1.50	10.0	ug/Kg
71-43-2	Benzene	120	D	1.40	10.0	ug/Kg
107-06-2	1,2-Dichloroethane	150	D	1.20	10.0	ug/Kg
79-01-6	Trichloroethene	66.5	D	1.50	10.0	ug/Kg
78-87-5	1,2-Dichloropropane	36.0	D	1.30	10.0	ug/Kg
74-95-3	Dibromomethane	31.0	D	1.20	10.0	ug/Kg
75-27-4	Bromodichloromethane	46.1	D	1.10	10.0	ug/Kg
108-10-1	4-Methyl-2-Pentanone	460	D	8.70	50.0	ug/Kg
80-62-6	Methyl methacrylate	1.50	UD	1.50	10.0	ug/Kg
108-88-3	Toluene	67.6	D	1.30	10.0	ug/Kg
10061-02-6	t-1,3-Dichloropropene	43.4	D	1.20	10.0	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	130	D	1.10	10.0	ug/Kg
79-00-5	1,1,2-Trichloroethane	58.7	D	1.70	10.0	ug/Kg
142-28-9	1,3-Dichloropropane	1.20	UD	1.20	10.0	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	25.6	UD	25.6	50.0	ug/Kg
591-78-6	2-Hexanone	420	D	9.60	50.0	ug/Kg
124-48-1	Dibromochloromethane	1.30	UD	1.30	10.0	ug/Kg
106-93-4	1,2-Dibromoethane	76.8	D	1.60	10.0	ug/Kg
127-18-4	Tetrachloroethene	1.80	UD	1.80	10.0	ug/Kg
108-90-7	Chlorobenzene	1.50	UD	1.50	10.0	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	170	D	1.30	10.0	ug/Kg
67-72-1	Hexachloroethane	1.60	UD	1.60	10.0	ug/Kg
100-41-4	Ethyl Benzene	130	D	1.20	10.0	ug/Kg
179601-23-1	m/p-Xylenes	100	D	2.70	20.0	ug/Kg
1330-20-7	Total Xylenes	210	D	4.10	30.0	ug/Kg
95-47-6	o-Xylene	110	D	1.40	10.0	ug/Kg
100-42-5	Styrene	180	D	1.20	10.0	ug/Kg
75-25-2	Bromoform	92.0	D	1.60	10.0	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-VOA-SOILDL		SDG No.:	P4495	
Lab Sample ID:	P4495-23DL		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	100	
Sample Wt/Vol:	5	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020091.D	2		10/31/24 13:51	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
98-82-8	Isopropylbenzene	1.30	UD	1.30	10.0	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	78.9	D	2.20	10.0	ug/Kg
96-18-4	1,2,3-Trichloropropane	2.30	UD	2.30	10.0	ug/Kg
108-86-1	Bromobenzene	1.30	UD	1.30	10.0	ug/Kg
103-65-1	n-propylbenzene	1.30	UD	1.30	10.0	ug/Kg
95-49-8	2-Chlorotoluene	1.20	UD	1.20	10.0	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	1.30	UD	1.30	10.0	ug/Kg
106-43-4	4-Chlorotoluene	1.20	UD	1.20	10.0	ug/Kg
98-06-6	tert-Butylbenzene	60.6	D	1.30	10.0	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	140	D	2.70	10.0	ug/Kg
135-98-8	sec-Butylbenzene	1.30	UD	1.30	10.0	ug/Kg
99-87-6	p-Isopropyltoluene	1.20	UD	1.20	10.0	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	UD	1.50	10.0	ug/Kg
106-46-7	1,4-Dichlorobenzene	130	D	1.60	10.0	ug/Kg
104-51-8	n-Butylbenzene	1.30	UD	1.30	10.0	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	UD	1.20	10.0	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	110	D	3.10	10.0	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.60	UD	1.60	10.0	ug/Kg
87-68-3	Hexachlorobutadiene	1.60	UD	1.60	10.0	ug/Kg
91-20-3	Naphthalene	60.4	D	3.00	10.0	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	110	D	1.60	10.0	ug/Kg
628-63-7	N-amyl acetate	1.90	UD	1.90	10.0	ug/Kg
74-88-4	Methyl Iodide	1.60	UD	1.60	10.0	ug/Kg
107-05-1	Allyl chloride	1.10	UD	1.10	10.0	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	1.60	UD	1.60	10.0	ug/Kg
126-98-7	Methacrylonitrile	3.00	UDQ	3.00	10.0	ug/Kg
97-63-2	Ethyl methacrylate	1.50	UD	1.50	10.0	ug/Kg
108-20-3	Diisopropyl ether	1.10	UD	1.10	10.0	ug/Kg
123-91-1	1,4-Dioxane	85.0	UD	85.0	200	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		50 - 163	101%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-VOA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-23DL	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020091.D	2		10/31/24 13:51	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	48.2		54 - 147	96%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		29 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	7.713			
540-36-3	1,4-Difluorobenzene	460000	8.616			
3114-55-4	Chlorobenzene-d5	397000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	184000	13.34			

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

Surrogate Summary

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4495-23	PT-VOA-SOIL	1,2-Dichloroethane-d4	50	49.8	100	50	163
		Dibromofluoromethane	50	50.5	101	54	147
		Toluene-d8	50	52.1	104	58	134
		4-Bromofluorobenzene	50	51.3	103	29	146
P4495-23DL	PT-VOA-SOILDL	1,2-Dichloroethane-d4	50	50.3	101	50	163
		Dibromofluoromethane	50	48.2	96	54	147
		Toluene-d8	50	48.7	97	58	134
		4-Bromofluorobenzene	50	48.8	98	29	146
VY1031SBL01	VY1031SBL01	1,2-Dichloroethane-d4	50	49.2	98	50	163
		Dibromofluoromethane	50	47.9	96	54	147
		Toluene-d8	50	46.6	93	58	134
		4-Bromofluorobenzene	50	43.4	87	29	146
VY1031SBS01	VY1031SBS01	1,2-Dichloroethane-d4	50	53.0	106	50	163
		Dibromofluoromethane	50	51.8	104	54	147
		Toluene-d8	50	52.6	105	58	134
		4-Bromofluorobenzene	50	52.2	104	29	146
VY1031SBSD01	VY1031SBSD01	1,2-Dichloroethane-d4	50	50.9	102	50	163
		Dibromofluoromethane	50	49.9	100	54	147
		Toluene-d8	50	48.4	97	58	134
		4-Bromofluorobenzene	50	48.0	96	29	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8260D

Datafile : VY020087.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1031SBS01	Dichlorodifluoromethane	20	21.2	ug/Kg	106			64	136	
	Chloromethane	20	22.5	ug/Kg	113			70	130	
	Vinyl chloride	20	21.3	ug/Kg	106			72	129	
	Ethyl Acetate	20	19.9	ug/Kg	100			77	113	
	Isopropylacetate	20	18.9	ug/Kg	95			84	110	
	Bromomethane	20	21.8	ug/Kg	109			58	141	
	Chloroethane	20	21.0	ug/Kg	105			69	130	
	Tetrahydrofuran	100	100	ug/Kg	100			78	107	
	Trichlorofluoromethane	20	20.7	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			81	123	
	Tert butyl alcohol	100	97.2	ug/Kg	97			24	175	
	Diethyl Ether	20	20.9	ug/Kg	104			87	115	
	1,1-Dichloroethene	20	21.4	ug/Kg	107			79	121	
	Acrolein	100	110	ug/Kg	110			54	141	
	Acrylonitrile	100	100	ug/Kg	100			68	136	
	Acetone	100	87.4	ug/Kg	87			60	131	
	Carbon disulfide	20	21.7	ug/Kg	109			45	154	
	Methyl tert-butyl Ether	20	20.7	ug/Kg	104			77	129	
	Methyl Acetate	20	20.7	ug/Kg	104			69	149	
	Methylene Chloride	20	19.5	ug/Kg	98			56	174	
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105			80	123	
	Vinyl Acetate	100	100	ug/Kg	100			86	117	
	1,1-Dichloroethane	20	21.8	ug/Kg	109			82	123	
	Cyclohexane	20	20.5	ug/Kg	103			76	122	
	2-Butanone	100	94.6	ug/Kg	95			69	131	
	Carbon Tetrachloride	20	20.4	ug/Kg	102			76	129	
	2,2-Dichloropropane	20	20.2	ug/Kg	101			62	143	
	cis-1,2-Dichloroethene	20	21.8	ug/Kg	109			82	123	
	Bromochloromethane	20	19.0	ug/Kg	95			80	127	
	Chloroform	20	21.4	ug/Kg	107			82	125	
	1,1,1-Trichloroethane	20	21.4	ug/Kg	107			80	126	
	Methylcyclohexane	20	19.6	ug/Kg	98			77	123	
	1,1-Dichloropropene	20	20.6	ug/Kg	103			84	119	
	Benzene	20	21.0	ug/Kg	105			84	121	
	1,2-Dichloroethane	20	21.3	ug/Kg	106			81	126	
	Trichloroethene	20	20.9	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	21.2	ug/Kg	106			83	122	
	Dibromomethane	20	19.9	ug/Kg	100			83	119	
	Bromodichloromethane	20	21.3	ug/Kg	106			82	123	
	4-Methyl-2-Pentanone	100	95.2	ug/Kg	95			70	135	
	Methyl methacrylate	20	19.9	ug/Kg	100			77	121	
	Toluene	20	21.0	ug/Kg	105			83	122	
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99			78	124	
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	21.0	ug/Kg	105			82	125	
	1,3-Dichloropropane	20	20.5	ug/Kg	103			80	125	
	2-Chloroethyl vinyl ether	100	96.2	ug/Kg	96			36	195	
	2-Hexanone	100	90.7	ug/Kg	91			66	138	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8260D

Datafile : VY020087.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1031SBS01	Dibromochloromethane	20	20.3	ug/Kg	102			79	125	
	1,2-Dibromoethane	20	20.3	ug/Kg	102			80	125	
	Tetrachloroethene	20	20.5	ug/Kg	103			83	125	
	Chlorobenzene	20	21.2	ug/Kg	106			84	122	
	1,1,1,2-Tetrachloroethane	20	20.7	ug/Kg	104			84	123	
	Hexachloroethane	20	20.4	ug/Kg	102			76	121	
	Ethyl Benzene	20	21.2	ug/Kg	106			82	124	
	m/p-Xylenes	40	42.8	ug/Kg	107			83	124	
	o-Xylene	20	21.3	ug/Kg	106			83	123	
	Styrene	20	21.4	ug/Kg	107			82	124	
	Bromoform	20	19.6	ug/Kg	98			75	127	
	Isopropylbenzene	20	21.3	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/Kg	104			77	127	
	1,2,3-Trichloropropane	20	21.6	ug/Kg	108			58	144	
	Bromobenzene	20	21.4	ug/Kg	107			83	120	
	N-propylbenzene	20	21.5	ug/Kg	108			81	123	
	2-Chlorotoluene	20	21.3	ug/Kg	106			84	118	
	1,3,5-Trimethylbenzene	20	21.7	ug/Kg	109			82	124	
	4-Chlorotoluene	20	21.8	ug/Kg	109			82	122	
	tert-Butylbenzene	20	21.7	ug/Kg	109			81	125	
	1,2,4-Trimethylbenzene	20	21.3	ug/Kg	106			81	125	
	Sec-butylbenzene	20	21.1	ug/Kg	106			80	124	
	p-Isopropyltoluene	20	21.1	ug/Kg	106			81	125	
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104			83	122	
	1,4-Dichlorobenzene	20	20.8	ug/Kg	104			84	121	
	n-Butylbenzene	20	20.8	ug/Kg	104			78	126	
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104			83	124	
	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94			66	134	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			78	127	
	Hexachlorobutadiene	20	19.1	ug/Kg	96			80	123	
	Naphthalene	20	17.6	ug/Kg	88			70	134	
	1,2,3-Trichlorobenzene	20	18.2	ug/Kg	91			70	137	
	N-amyl acetate	20	19.2	ug/Kg	96			85	115	
	Methyl iodide	20	22.5	ug/Kg	113			57	135	
	Allyl chloride	20	21.8	ug/Kg	109			89	113	
	Methacrylonitrile	20	16.4	ug/Kg	82			75	120	
	trans-1,4-Dichloro-2-butene	20	18.2	ug/Kg	91			74	115	
	Ethyl methacrylate	20	19.9	ug/Kg	100			86	114	
	Diisopropyl ether	20	21.7	ug/Kg	109			88	125	
	1,4-Dioxane	400	370	ug/Kg	93			61	144	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8260D

Datafile : VY020088.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1031SBSD01	Dichlorodifluoromethane	20	21.8	ug/Kg	109	3		64	136	20
	Chloromethane	20	21.8	ug/Kg	109	4		70	130	20
	Vinyl chloride	20	20.7	ug/Kg	104	2		72	129	20
	Ethyl Acetate	20	21.5	ug/Kg	108	8		77	113	20
	Isopropylacetate	20	21.1	ug/Kg	106	11		84	110	20
	Bromomethane	20	22.3	ug/Kg	112	3		58	141	20
	Chloroethane	20	21.5	ug/Kg	108	3		69	130	20
	Tetrahydrofuran	100	120	ug/Kg	120	18	*	78	107	20
	Trichlorofluoromethane	20	19.9	ug/Kg	100	4		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/Kg	103	2		81	123	20
	Tert butyl alcohol	100	120	ug/Kg	120	21	*	24	175	20
	Diethyl Ether	20	24.0	ug/Kg	120	14	*	87	115	20
	1,1-Dichloroethene	20	21.3	ug/Kg	106	1		79	121	20
	Acrolein	100	110	ug/Kg	110	0		54	141	20
	Acrylonitrile	100	120	ug/Kg	120	18		68	136	20
	Acetone	100	100	ug/Kg	100	14		60	131	20
	Carbon disulfide	20	21.1	ug/Kg	106	3		45	154	20
	Methyl tert-butyl Ether	20	22.5	ug/Kg	113	8		77	129	20
	Methyl Acetate	20	22.7	ug/Kg	114	9		69	149	20
	Methylene Chloride	20	20.4	ug/Kg	102	4		56	174	20
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105	0		80	123	20
	Vinyl Acetate	100	110	ug/Kg	110	10		86	117	20
	1,1-Dichloroethane	20	21.6	ug/Kg	108	1		82	123	20
	Cyclohexane	20	20.0	ug/Kg	100	3		76	122	20
	2-Butanone	100	110	ug/Kg	110	15		69	131	20
	Carbon Tetrachloride	20	19.7	ug/Kg	99	3		76	129	20
	2,2-Dichloropropane	20	20.4	ug/Kg	102	1		62	143	20
	cis-1,2-Dichloroethene	20	21.8	ug/Kg	109	0		82	123	20
	Bromochloromethane	20	21.3	ug/Kg	106	11		80	127	20
	Chloroform	20	21.5	ug/Kg	108	1		82	125	20
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106	1		80	126	20
	Methylcyclohexane	20	19.5	ug/Kg	98	0		77	123	20
	1,1-Dichloropropene	20	20.3	ug/Kg	102	1		84	119	20
	Benzene	20	20.9	ug/Kg	104	1		84	121	20
	1,2-Dichloroethane	20	21.6	ug/Kg	108	2		81	126	20
	Trichloroethene	20	20.5	ug/Kg	103	1		83	122	20
	1,2-Dichloropropane	20	21.1	ug/Kg	106	0		83	122	20
	Dibromomethane	20	21.0	ug/Kg	105	5		83	119	20
	Bromodichloromethane	20	21.1	ug/Kg	106	0		82	123	20
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	15		70	135	20
	Methyl methacrylate	20	21.8	ug/Kg	109	9		77	121	20
	Toluene	20	21.1	ug/Kg	106	1		83	122	20
	t-1,3-Dichloropropene	20	20.9	ug/Kg	104	5		78	124	20
	cis-1,3-Dichloropropene	20	21.2	ug/Kg	106	2		81	122	20
	1,1,2-Trichloroethane	20	21.6	ug/Kg	108	3		82	125	20
	1,3-Dichloropropane	20	21.4	ug/Kg	107	4		80	125	20
	2-Chloroethyl vinyl ether	100	100	ug/Kg	100	4		36	195	20
	2-Hexanone	100	100	ug/Kg	100	9		66	138	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8260D

Datafile : VY020088.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1031SBSD01	Dibromochloromethane	20	20.8	ug/Kg	104	2		79	125	20
	1,2-Dibromoethane	20	21.2	ug/Kg	106	4		80	125	20
	Tetrachloroethene	20	20.3	ug/Kg	102	1		83	125	20
	Chlorobenzene	20	20.7	ug/Kg	104	2		84	122	20
	1,1,1,2-Tetrachloroethane	20	20.6	ug/Kg	103	1		84	123	20
	Hexachloroethane	20	20.2	ug/Kg	101	1		76	121	20
	Ethyl Benzene	20	20.6	ug/Kg	103	3		82	124	20
	m/p-Xylenes	40	41.2	ug/Kg	103	4		83	124	20
	o-Xylene	20	20.5	ug/Kg	103	3		83	123	20
	Styrene	20	20.9	ug/Kg	104	3		82	124	20
	Bromoform	20	20.7	ug/Kg	104	6		75	127	20
	Isopropylbenzene	20	21.0	ug/Kg	105	1		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.8	ug/Kg	109	5		77	127	20
	1,2,3-Trichloropropane	20	22.0	ug/Kg	110	2		58	144	20
	Bromobenzene	20	21.3	ug/Kg	106	1		83	120	20
	N-propylbenzene	20	21.1	ug/Kg	106	2		81	123	20
	2-Chlorotoluene	20	21.3	ug/Kg	106	0		84	118	20
	1,3,5-Trimethylbenzene	20	21.2	ug/Kg	106	3		82	124	20
	4-Chlorotoluene	20	21.4	ug/Kg	107	2		82	122	20
	tert-Butylbenzene	20	21.5	ug/Kg	108	1		81	125	20
	1,2,4-Trimethylbenzene	20	21.4	ug/Kg	107	1		81	125	20
	Sec-butylbenzene	20	20.9	ug/Kg	104	2		80	124	20
	p-Isopropyltoluene	20	20.7	ug/Kg	104	2		81	125	20
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104	0		83	122	20
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104	0		84	121	20
	n-Butylbenzene	20	20.4	ug/Kg	102	2		78	126	20
	1,2-Dichlorobenzene	20	21.4	ug/Kg	107	3		83	124	20
	1,2-Dibromo-3-Chloropropane	20	20.6	ug/Kg	103	9		66	134	20
	1,2,4-Trichlorobenzene	20	19.7	ug/Kg	99	2		78	127	20
	Hexachlorobutadiene	20	19.4	ug/Kg	97	1		80	123	20
	Naphthalene	20	19.7	ug/Kg	99	12		70	134	20
	1,2,3-Trichlorobenzene	20	19.1	ug/Kg	96	5		70	137	20
	N-amyl acetate	20	21.0	ug/Kg	105	9		85	115	20
	Methyl iodide	20	23.0	ug/Kg	115	2		57	135	20
	Allyl chloride	20	21.9	ug/Kg	110	1		89	113	20
	Methacrylonitrile	20	25.4	ug/Kg	127	43	*	75	120	20
	trans-1,4-Dichloro-2-butene	20	20.3	ug/Kg	102	11		74	115	20
	Ethyl methacrylate	20	20.6	ug/Kg	103	3		86	114	20
	Diisopropyl ether	20	21.9	ug/Kg	110	1		88	125	20
	1,4-Dioxane	400	450	ug/Kg	113	19		61	144	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1031SBL01

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab File ID: VY020086.D

Lab Sample ID: VY1031SBL01

Date Analyzed: 10/31/2024

Time Analyzed: 11:55

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
VY1031SBS01	VY1031SBS01	VY020087.D	10/31/2024
VY1031SBSD01	VY1031SBSD01	VY020088.D	10/31/2024
PT-VOA-SOIL	P4495-23	VY020089.D	10/31/2024
PT-VOA-SOILDL	P4495-23DL	VY020091.D	10/31/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495
Lab File ID: VY020074.D BFB Injection Date: 10/30/2024
Instrument ID: MSVOA_Y BFB Injection Time: 12:07
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	24
75	30.0 - 60.0% of mass 95	57.2
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	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 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
VSTDIC005	VSTDIC005	VY020075.D	10/30/2024	12:39
VSTDIC010	VSTDIC010	VY020076.D	10/30/2024	13:02
VSTDIC020	VSTDIC020	VY020077.D	10/30/2024	13:24
VSTDIC050	VSTDIC050	VY020078.D	10/30/2024	14:06
VSTDIC100	VSTDIC100	VY020079.D	10/30/2024	14:29
VSTDIC150	VSTDIC150	VY020080.D	10/30/2024	14:52

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495
Lab File ID: VY020083.D BFB Injection Date: 10/31/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:43
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	24.5
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	68.5 (97) 1
177	5.0 - 9.0% of mass 176	4.5 (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
VSTDCCC050	VSTDCCC050	VY020085.D	10/31/2024	11:11
VY1031SBL01	VY1031SBL01	VY020086.D	10/31/2024	11:55
VY1031SBS01	VY1031SBS01	VY020087.D	10/31/2024	12:21
VY1031SBSD01	VY1031SBSD01	VY020088.D	10/31/2024	12:43
PT-VOA-SOIL	P4495-23	VY020089.D	10/31/2024	13:05
PT-VOA-SOILDL	P4495-23DL	VY020091.D	10/31/2024	13:51

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495
Lab File ID: VY020085.D Date Analyzed: 10/31/2024
Instrument ID: MSVOA_Y Time Analyzed: 11:11
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	271638	7.71	493866	8.62	426183	11.41
UPPER LIMIT	543276	8.213	987732	9.116	852366	11.914
LOWER LIMIT	135819	7.213	246933	8.116	213092	10.914
EPA SAMPLE NO.						
PT-VOA-SOIL	251162	7.71	444591	8.62	375160	11.41
PT-VOA-SOILDL	252068	7.71	460288	8.62	397276	11.41
VY1031SBL01	266060	7.71	487691	8.62	402156	11.41
VY1031SBS01	266532	7.71	483245	8.62	414401	11.41
VY1031SBSD01	259889	7.71	476917	8.62	414477	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHEM02
 Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495
 Lab File ID: VY020085.D Date Analyzed: 10/31/2024
 Instrument ID: MSVOA_Y Time Analyzed: 11:11
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	197269	13.347				
UPPER LIMIT	394538	13.847				
LOWER LIMIT	98634.5	12.847				
EPA SAMPLE NO.						
PT-VOA-SOIL	173769	13.35				
PT-VOA-SOILDL	183872	13.34				
VY1031SBL01	165838	13.35				
VY1031SBS01	187853	13.35				
VY1031SBSD01	186835	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBL01		SDG No.:	P4495
Lab Sample ID:	VY1031SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020086.D	1		10/31/24 11:55	VY103124

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
141-78-6	Ethyl Acetate	1.10	U	1.10	5.00	ug/Kg
108-21-4	Isopropyl Acetate	0.86	U	0.86	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
109-99-9	Tetrahydrofuran	5.20	U	5.20	25.0	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
75-65-0	Tert butyl alcohol	15.6	U	15.6	25.0	ug/Kg
60-29-7	Diethyl Ether	0.64	U	0.64	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
107-02-8	Acrolein	5.80	U	5.80	25.0	ug/Kg
107-13-1	Acrylonitrile	5.00	U	5.00	25.0	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
108-05-4	Vinyl Acetate	2.80	U	2.80	25.0	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
594-20-7	2,2-Dichloropropane	1.60	U	1.60	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
540-59-0	Total 1,2-Dichloroethene	1.45	U	1.45	10.0	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBL01		SDG No.:	P4495
Lab Sample ID:	VY1031SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020086.D	1		10/31/24 11:55	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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
563-58-6	1,1-Dichloropropene	0.73	U	0.73	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
74-95-3	Dibromomethane	0.62	U	0.62	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
80-62-6	Methyl methacrylate	0.74	U	0.74	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
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
142-28-9	1,3-Dichloropropane	0.59	U	0.59	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	12.8	U	12.8	25.0	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
630-20-6	1,1,1,2-Tetrachloroethane	0.64	U	0.64	5.00	ug/Kg
67-72-1	Hexachloroethane	0.80	U	0.80	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
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBL01		SDG No.:	P4495
Lab Sample ID:	VY1031SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020086.D	1		10/31/24 11:55	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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
96-18-4	1,2,3-Trichloropropane	1.20	U	1.20	5.00	ug/Kg
108-86-1	Bromobenzene	0.65	U	0.65	5.00	ug/Kg
103-65-1	n-propylbenzene	0.64	U	0.64	5.00	ug/Kg
95-49-8	2-Chlorotoluene	0.62	U	0.62	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.64	U	0.64	5.00	ug/Kg
106-43-4	4-Chlorotoluene	0.59	U	0.59	5.00	ug/Kg
98-06-6	tert-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	0.67	U	0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	0.58	U	0.58	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
104-51-8	n-Butylbenzene	0.63	U	0.63	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
87-68-3	Hexachlorobutadiene	0.81	U	0.81	5.00	ug/Kg
91-20-3	Naphthalene	1.50	U	1.50	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
628-63-7	N-amyl acetate	0.95	U	0.95	5.00	ug/Kg
74-88-4	Methyl Iodide	0.80	U	0.80	5.00	ug/Kg
107-05-1	Allyl chloride	0.57	U	0.57	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	0.80	U	0.80	5.00	ug/Kg
126-98-7	Methacrylonitrile	1.50	U	1.50	5.00	ug/Kg
97-63-2	Ethyl methacrylate	0.73	U	0.73	5.00	ug/Kg
108-20-3	Diisopropyl ether	0.57	U	0.57	5.00	ug/Kg
123-91-1	1,4-Dioxane	42.5	U	42.5	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		50 - 163	98%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBL01		SDG No.:	P4495
Lab Sample ID:	VY1031SBL01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020086.D	1		10/31/24 11:55	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	47.9		54 - 147	96%	SPK: 50
2037-26-5	Toluene-d8	46.6		58 - 134	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.4		29 - 146	87%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		54 - 147	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	266000	7.713			
540-36-3	1,4-Difluorobenzene	488000	8.616			
3114-55-4	Chlorobenzene-d5	402000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.346			

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBS01		SDG No.:	P4495
Lab Sample ID:	VY1031SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020087.D	1		10/31/24 12:21	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	22.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.3		0.77	5.00	ug/Kg
141-78-6	Ethyl Acetate	19.9		1.10	5.00	ug/Kg
108-21-4	Isopropyl Acetate	18.9		0.86	5.00	ug/Kg
74-83-9	Bromomethane	21.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.0		1.00	5.00	ug/Kg
109-99-9	Tetrahydrofuran	100		5.20	25.0	ug/Kg
75-69-4	Trichlorofluoromethane	20.7		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	97.2		15.6	25.0	ug/Kg
60-29-7	Diethyl Ether	20.9		0.64	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.4		0.78	5.00	ug/Kg
107-02-8	Acrolein	110		5.80	25.0	ug/Kg
107-13-1	Acrylonitrile	100		5.00	25.0	ug/Kg
67-64-1	Acetone	87.4		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.7		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.7		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.7		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.0		0.84	5.00	ug/Kg
108-05-4	Vinyl Acetate	100		2.80	25.0	ug/Kg
75-34-3	1,1-Dichloroethane	21.8		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	94.6		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.4		0.87	5.00	ug/Kg
594-20-7	2,2-Dichloropropane	20.2		1.60	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.8		0.61	5.00	ug/Kg
540-59-0	Total 1,2-Dichloroethene	42.8		1.45	10.0	ug/Kg
74-97-5	Bromochloromethane	19.0		2.40	5.00	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBS01		SDG No.:	P4495
Lab Sample ID:	VY1031SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020087.D	1		10/31/24 12:21	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
67-66-3	Chloroform	21.4		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.4		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.87	5.00	ug/Kg
563-58-6	1,1-Dichloropropene	20.6		0.73	5.00	ug/Kg
71-43-2	Benzene	21.0		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.9		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.2		0.66	5.00	ug/Kg
74-95-3	Dibromomethane	19.9		0.62	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.3		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	95.2		4.40	25.0	ug/Kg
80-62-6	Methyl methacrylate	19.9		0.74	5.00	ug/Kg
108-88-3	Toluene	21.0		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.7		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.9		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.0		0.84	5.00	ug/Kg
142-28-9	1,3-Dichloropropane	20.5		0.59	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	96.2		12.8	25.0	ug/Kg
591-78-6	2-Hexanone	90.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.3		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.3		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.2		0.74	5.00	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	20.7		0.64	5.00	ug/Kg
67-72-1	Hexachloroethane	20.4		0.80	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.8		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	64.1		2.10	15.0	ug/Kg
95-47-6	o-Xylene	21.3		0.70	5.00	ug/Kg
100-42-5	Styrene	21.4		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.6		0.81	5.00	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBS01		SDG No.:	P4495
Lab Sample ID:	VY1031SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020087.D	1		10/31/24 12:21	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
98-82-8	Isopropylbenzene	21.3		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.7		1.10	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	21.6		1.20	5.00	ug/Kg
108-86-1	Bromobenzene	21.4		0.65	5.00	ug/Kg
103-65-1	n-propylbenzene	21.5		0.64	5.00	ug/Kg
95-49-8	2-Chlorotoluene	21.3		0.62	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	21.7		0.64	5.00	ug/Kg
106-43-4	4-Chlorotoluene	21.8		0.59	5.00	ug/Kg
98-06-6	tert-Butylbenzene	21.7		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	21.3		1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	21.1		0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	21.1		0.58	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.8		0.80	5.00	ug/Kg
104-51-8	n-Butylbenzene	20.8		0.63	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		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	19.3		0.79	5.00	ug/Kg
87-68-3	Hexachlorobutadiene	19.1		0.81	5.00	ug/Kg
91-20-3	Naphthalene	17.6		1.50	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.2		0.78	5.00	ug/Kg
628-63-7	N-amyl acetate	19.2		0.95	5.00	ug/Kg
74-88-4	Methyl Iodide	22.5		0.80	5.00	ug/Kg
107-05-1	Allyl chloride	21.8		0.57	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	18.2		0.80	5.00	ug/Kg
126-98-7	Methacrylonitrile	16.4		1.50	5.00	ug/Kg
97-63-2	Ethyl methacrylate	19.9		0.73	5.00	ug/Kg
108-20-3	Diisopropyl ether	21.7		0.57	5.00	ug/Kg
123-91-1	1,4-Dioxane	370		42.5	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		50 - 163	106%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBS01		SDG No.:	P4495
Lab Sample ID:	VY1031SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020087.D	1		10/31/24 12:21	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	51.8		54 - 147	104%	SPK: 50
2037-26-5	Toluene-d8	52.7		58 - 134	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		29 - 146	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		54 - 147	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	267000	7.713			
540-36-3	1,4-Difluorobenzene	483000	8.616			
3114-55-4	Chlorobenzene-d5	414000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	188000	13.346			

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBSD01	SDG No.:	P4495	
Lab Sample ID:	VY1031SBSD01	Matrix:	SOIL	
Analytical Method:	SW8260	% Solid:	100	
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020088.D	1		10/31/24 12:43	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.8		1.70	5.00	ug/Kg
74-87-3	Chloromethane	21.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.77	5.00	ug/Kg
141-78-6	Ethyl Acetate	21.5		1.10	5.00	ug/Kg
108-21-4	Isopropyl Acetate	21.1		0.86	5.00	ug/Kg
74-83-9	Bromomethane	22.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.5		1.00	5.00	ug/Kg
109-99-9	Tetrahydrofuran	120		5.20	25.0	ug/Kg
75-69-4	Trichlorofluoromethane	19.9		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	120		15.6	25.0	ug/Kg
60-29-7	Diethyl Ether	24.0		0.64	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.3		0.78	5.00	ug/Kg
107-02-8	Acrolein	110		5.80	25.0	ug/Kg
107-13-1	Acrylonitrile	120		5.00	25.0	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.5		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.7		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.4		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.0		0.84	5.00	ug/Kg
108-05-4	Vinyl Acetate	110		2.80	25.0	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.0		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.7		0.87	5.00	ug/Kg
594-20-7	2,2-Dichloropropane	20.4		1.60	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.8		0.61	5.00	ug/Kg
540-59-0	Total 1,2-Dichloroethene	42.8		1.45	10.0	ug/Kg
74-97-5	Bromochloromethane	21.3		2.40	5.00	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBSD01	SDG No.:	P4495	
Lab Sample ID:	VY1031SBSD01	Matrix:	SOIL	
Analytical Method:	SW8260	% Solid:	100	
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020088.D	1		10/31/24 12:43	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
67-66-3	Chloroform	21.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.87	5.00	ug/Kg
563-58-6	1,1-Dichloropropene	20.3		0.73	5.00	ug/Kg
71-43-2	Benzene	20.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.6		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.66	5.00	ug/Kg
74-95-3	Dibromomethane	21.0		0.62	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
80-62-6	Methyl methacrylate	21.8		0.74	5.00	ug/Kg
108-88-3	Toluene	21.1		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	20.9		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.2		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.6		0.84	5.00	ug/Kg
142-28-9	1,3-Dichloropropane	21.4		0.59	5.00	ug/Kg
110-75-8	2-Chloroethyl Vinyl ether	100		12.8	25.0	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.3		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.7		0.74	5.00	ug/Kg
630-20-6	1,1,1,2-Tetrachloroethane	20.6		0.64	5.00	ug/Kg
67-72-1	Hexachloroethane	20.2		0.80	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.6		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.2		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	61.7		2.10	15.0	ug/Kg
95-47-6	o-Xylene	20.5		0.70	5.00	ug/Kg
100-42-5	Styrene	20.9		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.7		0.81	5.00	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBSD01	SDG No.:	P4495	
Lab Sample ID:	VY1031SBSD01	Matrix:	SOIL	
Analytical Method:	SW8260	% Solid:	100	
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020088.D	1		10/31/24 12:43	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
98-82-8	Isopropylbenzene	21.0		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.8		1.10	5.00	ug/Kg
96-18-4	1,2,3-Trichloropropane	22.0		1.20	5.00	ug/Kg
108-86-1	Bromobenzene	21.3		0.65	5.00	ug/Kg
103-65-1	n-propylbenzene	21.1		0.64	5.00	ug/Kg
95-49-8	2-Chlorotoluene	21.3		0.62	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	21.2		0.64	5.00	ug/Kg
106-43-4	4-Chlorotoluene	21.4		0.59	5.00	ug/Kg
98-06-6	tert-Butylbenzene	21.5		0.67	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	21.4		1.40	5.00	ug/Kg
135-98-8	sec-Butylbenzene	20.9		0.67	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	20.7		0.58	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		0.80	5.00	ug/Kg
104-51-8	n-Butylbenzene	20.4		0.63	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.4		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.7		0.79	5.00	ug/Kg
87-68-3	Hexachlorobutadiene	19.4		0.81	5.00	ug/Kg
91-20-3	Naphthalene	19.7		1.50	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.1		0.78	5.00	ug/Kg
628-63-7	N-amyl acetate	21.0		0.95	5.00	ug/Kg
74-88-4	Methyl Iodide	23.0		0.80	5.00	ug/Kg
107-05-1	Allyl chloride	21.9		0.57	5.00	ug/Kg
110-57-6	trans-1,4-Dichloro-2-butene	20.3		0.80	5.00	ug/Kg
126-98-7	Methacrylonitrile	25.4		1.50	5.00	ug/Kg
97-63-2	Ethyl methacrylate	20.6		0.73	5.00	ug/Kg
108-20-3	Diisopropyl ether	21.9		0.57	5.00	ug/Kg
123-91-1	1,4-Dioxane	450		42.5	100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		50 - 163	102%	SPK: 50

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	VY1031SBSD01		SDG No.:	P4495
Lab Sample ID:	VY1031SBSD01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020088.D	1		10/31/24 12:43	VY103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	49.9		54 - 147	100%	SPK: 50
2037-26-5	Toluene-d8	48.4		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		29 - 146	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		54 - 147	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	260000	7.713			
540-36-3	1,4-Difluorobenzene	477000	8.616			
3114-55-4	Chlorobenzene-d5	414000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	187000	13.347			

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>CHEM02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Instrument ID:	<u>MSVOA_Y</u>	SAS No.:	<u>P4495</u>
Heated Purge: (Y/N)	<u>Y</u>	SDG No.:	<u>P4495</u>
GC Column:	<u>RXI-624</u>	Calibration Date(s):	<u>10/30/2024</u>
ID:	<u>0.25 (mm)</u>	Calibration Time(s):	<u>12:39</u>
			<u>14:52</u>

LAB FILE ID:	RRF005 = VY020075.D		RRF010 = VY020076.D		RRF020 = VY020077.D			
	RRF050 = VY020078.D		RRF100 = VY020079.D		RRF150 = VY020080.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5
Ethyl Acetate	0.232	0.226	0.242	0.211	0.255	0.239	0.234	6.4
Isopropyl Acetate	0.390	0.440	0.462	0.412	0.510	0.487	0.450	10
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5
Tetrahydrofuran	0.102	0.113	0.114	0.104	0.128	0.120	0.114	8.5
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3
Tert butyl alcohol	0.054	0.056	0.047	0.033	0.041	0.039	0.045	19.9
Diethyl Ether	0.261	0.280	0.293	0.252	0.297	0.299	0.280	7
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1
Acrolein	0.051	0.060	0.059	0.050	0.060	0.056	0.056	8
Acrylonitrile	0.117	0.129	0.129	0.117	0.139	0.134	0.128	7
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7
Vinyl Acetate	0.982	1.112	1.150	1.054	1.274	1.249	1.137	9.9
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2
2,2-Dichloropropane	1.043	0.968	0.957	0.881	0.986	1.004	0.973	5.6
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>CHEM02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Instrument ID:	<u>MSVOA_Y</u>	SAS No.:	<u>P4495</u>
Heated Purge: (Y/N)	<u>Y</u>	SDG No.:	<u>P4495</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Calibration Date(s):	<u>10/30/2024</u>
		Calibration Time(s):	<u>12:39</u>

LAB FILE ID:	RRF005 = VY020075.D	RRF010 = VY020076.D	RRF020 = VY020077.D	RRF050 = VY020078.D	RRF100 = VY020079.D	RRF150 = VY020080.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6
1,1-Dichloropropene	0.482	0.500	0.493	0.450	0.512	0.510	0.491	4.7
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6
Dibromomethane	0.173	0.185	0.189	0.171	0.200	0.196	0.186	6.4
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9
Methyl methacrylate	0.161	0.196	0.218	0.197	0.244	0.236	0.209	14.6
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4
1,3-Dichloropropane	0.383	0.411	0.438	0.393	0.464	0.449	0.423	7.7
2-Chloroethyl Vinyl ether	0.132	0.155	0.167	0.160	0.186	0.180	0.163	11.8
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5
1,1,1,2-Tetrachloroethane	0.312	0.332	0.345	0.317	0.365	0.370	0.340	7.1
Hexachloroethane	0.669	0.664	0.684	0.628	0.713	0.741	0.683	5.8
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>CHEM02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Instrument ID:	<u>MSVOA_Y</u>	SAS No.:	<u>P4495</u>
Heated Purge: (Y/N)	<u>Y</u>	SDG No.:	<u>P4495</u>
GC Column:	<u>RXI-624</u>	Calibration Date(s):	<u>10/30/2024</u>
ID:	<u>0.25 (mm)</u>	Calibration Time(s):	<u>12:39</u>
			<u>14:52</u>

LAB FILE ID:	RRF005 = VY020075.D	RRF010 = VY020076.D	RRF020 = VY020077.D	RRF050 = VY020078.D	RRF100 = VY020079.D	RRF150 = VY020080.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4
1,2,3-Trichloropropane	0.387	0.563	0.479	0.428	0.477	0.478	0.469	12.6
Bromobenzene	0.830	0.761	0.806	0.742	0.843	0.866	0.808	6
n-propylbenzene	5.003	4.849	5.049	4.581	5.082	5.263	4.971	4.7
2-Chlorotoluene	2.788	2.705	2.774	2.517	2.814	2.958	2.759	5.3
1,3,5-Trimethylbenzene	3.201	3.025	3.270	2.973	3.310	3.461	3.207	5.7
4-Chlorotoluene	2.774	2.702	2.871	2.606	2.904	3.025	2.813	5.4
tert-Butylbenzene	2.826	2.624	2.798	2.664	2.888	3.024	2.804	5.2
1,2,4-Trimethylbenzene	3.062	3.025	3.203	2.942	3.338	3.486	3.176	6.5
sec-Butylbenzene	4.277	4.160	4.350	4.002	4.440	4.598	4.305	4.9
p-Isopropyltoluene	3.296	3.254	3.522	3.235	3.617	3.803	3.454	6.7
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5
n-Butylbenzene	3.312	3.215	3.533	3.256	3.663	3.797	3.463	6.9
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8
Hexachlorobutadiene	0.403	0.389	0.422	0.389	0.454	0.456	0.419	7.3
Naphthalene	1.116	1.209	1.420	1.325	1.760	1.765	1.432	19.2
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5
N-amyl acetate	0.835	0.907	1.004	0.918	1.156	1.171	0.998	13.9
Methyl Iodide	0.499	0.541	0.548	0.517	0.577	0.585	0.544	6.2
Allyl chloride	0.955	0.952	0.980	0.915	1.011	1.028	0.973	4.2
trans-1,4-Dichloro-2-butene	0.208	0.210	0.211	0.197	0.238	0.243	0.218	8.4
Methacrylonitrile	0.079	0.115	0.131	0.119	0.132	0.127	0.117	16.9
Ethyl methacrylate	0.250	0.302	0.337	0.315	0.396	0.388	0.331	16.6

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>CHEM02</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Instrument ID:	<u>MSVOA_Y</u>	SAS No.:	<u>P4495</u>
Heated Purge: (Y/N)	<u>Y</u>	SDG No.:	<u>P4495</u>
GC Column:	<u>RXI-624</u>	Calibration Date(s):	<u>10/30/2024</u>
ID:	<u>0.25</u> (mm)	Calibration Time(s):	<u>12:39</u>
			<u>14:52</u>

LAB FILE ID:		RRF005 = VY020075.D		RRF010 = VY020076.D		RRF020 = VY020077.D		
		RRF050 = VY020078.D		RRF100 = VY020079.D		RRF150 = VY020080.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Diisopropyl ether	1.824	1.993	2.082	1.894	2.168	2.160	2.020	7
1,4-Dioxane	1.739	1.841	1.816	1.751	2.231	2.101	1.913	10.6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: MSVOA_Y Calibration Date/Time: 10/31/2024 11:11

Lab File ID: VY020085.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.463	0.488		5.4	20
Chloromethane	0.767	0.786	0.1	2.48	20
Vinyl Chloride	0.823	0.854		3.77	20
Ethyl Acetate	0.234	0.240		2.56	20
Isopropyl Acetate	0.450	0.479		6.44	20
Bromomethane	0.546	0.552		1.1	20
Chloroethane	0.531	0.540		1.7	20
Tetrahydrofuran	0.114	0.120		5.26	20
Trichlorofluoromethane	1.005	1.063		5.77	20
1,1,2-Trichlorotrifluoroethane	0.564	0.597		5.85	20
Tert butyl alcohol	0.045	0.038		-15.56	20
Diethyl Ether	0.280	0.307		9.64	20
1,1-Dichloroethene	0.540	0.581		7.59	20
Acrolein	0.056	0.050		-10.71	20
Acrylonitrile	0.128	0.138		7.81	20
Acetone	0.145	0.168		15.86	20
Carbon Disulfide	1.796	1.932		7.57	20
Methyl tert-butyl Ether	1.357	1.492		9.95	20
Methyl Acetate	0.340	0.352		3.53	20
Methylene Chloride	0.652	0.643		-1.38	20
trans-1,2-Dichloroethene	0.609	0.659		8.21	20
Vinyl Acetate	1.137	1.274		12.05	20
1,1-Dichloroethane	1.170	1.267	0.1	8.29	20
Cyclohexane	1.132	1.136		0.35	20
2-Butanone	0.197	0.209		6.09	20
Carbon Tetrachloride	0.494	0.528		6.88	20
2,2-Dichloropropane	0.973	1.074		10.38	20
cis-1,2-Dichloroethene	0.700	0.771		10.14	20
Bromochloromethane	0.548	0.577		5.29	20
Chloroform	1.161	1.263		8.79	20
1,1,1-Trichloroethane	1.013	1.112		9.77	20
Methylcyclohexane	0.623	0.656		5.3	20
1,1-Dichloropropene	0.491	0.516		5.09	20
Benzene	1.433	1.529		6.7	20
1,2-Dichloroethane	0.397	0.420		5.79	20
Trichloroethene	0.332	0.349		5.12	20
1,2-Dichloropropane	0.343	0.372		8.45	20
Dibromomethane	0.186	0.194		4.3	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: MSVOA_Y Calibration Date/Time: 10/31/2024 11:11

Lab File ID: VY020085.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromodichloromethane	0.487	0.525		7.8	20
4-Methyl-2-Pentanone	0.232	0.244		5.17	20
Methyl methacrylate	0.209	0.230		10.05	20
Toluene	0.884	0.955		8.03	20
t-1,3-Dichloropropene	0.430	0.468		8.84	20
cis-1,3-Dichloropropene	0.513	0.569		10.92	20
1,1,2-Trichloroethane	0.231	0.250		8.23	20
1,3-Dichloropropane	0.423	0.447		5.67	20
2-Chloroethyl Vinyl ether	0.163	0.165		1.23	20
2-Hexanone	0.166	0.179		7.83	20
Dibromochloromethane	0.295	0.316		7.12	20
1,2-Dibromoethane	0.215	0.226		5.12	20
Tetrachloroethene	0.330	0.364		10.3	20
Chlorobenzene	1.065	1.152	0.3	8.17	20
1,1,1,2-Tetrachloroethane	0.340	0.375		10.29	20
Hexachloroethane	0.683	0.738		8.05	20
Ethyl Benzene	1.992	2.164		8.64	20
m/p-Xylenes	0.729	0.804		10.29	20
o-Xylene	0.690	0.757		9.71	20
Styrene	1.141	1.279		12.1	20
Bromoform	0.175	0.191	0.1	9.14	20
Isopropylbenzene	3.994	4.426		10.82	20
1,1,2,2-Tetrachloroethane	0.699	0.727	0.3	4.01	20
1,2,3-Trichloropropane	0.469	0.502		7.04	20
Bromobenzene	0.808	0.871		7.8	20
n-propylbenzene	4.971	5.536		11.37	20
2-Chlorotoluene	2.759	3.048		10.48	20
1,3,5-Trimethylbenzene	3.207	3.541		10.41	20
4-Chlorotoluene	2.813	3.100		10.2	20
tert-Butylbenzene	2.804	3.207		14.37	20
1,2,4-Trimethylbenzene	3.176	3.542		11.52	20
sec-Butylbenzene	4.305	4.810		11.73	20
p-Isopropyltoluene	3.454	3.884		12.45	20
1,3-Dichlorobenzene	1.641	1.806		10.06	20
1,4-Dichlorobenzene	1.634	1.784		9.18	20
n-Butylbenzene	3.463	3.926		13.37	20
1,2-Dichlorobenzene	1.426	1.566		9.82	20
1,2-Dibromo-3-Chloropropane	0.106	0.108		1.89	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: MSVOA_Y Calibration Date/Time: 10/31/2024 11:11

Lab File ID: VY020085.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
1,2,4-Trichlorobenzene	0.766	0.855		11.62	20
Hexachlorobutadiene	0.419	0.469		11.93	20
Naphthalene	1.432	1.591		11.1	20
1,2,3-Trichlorobenzene	0.650	0.700		7.69	20
1,2-Dichloroethane-d4	0.624	0.594		-4.81	20
Dibromofluoromethane	0.318	0.306		-3.77	20
Toluene-d8	1.265	1.203		-4.9	20
4-Bromofluorobenzene	0.411	0.398		-3.16	20
N-amyl acetate	0.998	1.133		13.53	20
Methyl Iodide	0.544	0.624		14.71	20
Allyl chloride	0.973	1.080		11	20
trans-1,4-Dichloro-2-butene	0.218	0.234		7.34	20
Methacrylonitrile	0.117	0.137		17.09	20
Ethyl methacrylate	0.331	0.365		10.27	20
Diisopropyl ether	2.020	2.271		12.43	20
1,4-Dioxane	1.913	1.820	0.05	-4.86	50

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

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-11	PT-BNA-SOIL	SOIL	SVOCMS Group1	8270E	10/21/24	10/25/24	11/13/24	10/23/24
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-11DL	PT-BNA-SOILDL	SOIL	SVOCMS Group1	8270E	10/21/24	10/25/24	11/13/24	10/23/24
			SVOCMS Group2	8270-Modified		10/25/24	11/14/24	
P4495-12	PT-TRIAZINE-SOIL	SOIL	SVOCMS Group4	8270E	10/21/24	10/25/24	10/29/24	10/23/24
P4495-13	PT-PAH-SOIL	SOIL	SVOCMS Group3	8270-Modified	10/21/24	10/25/24	11/14/24	10/23/24
P4495-13DL	PT-PAH-SOILDL	SOIL	SVOCMS Group3	8270-Modified	10/21/24	10/25/24	11/14/24	10/23/24

Hit Summary Sheet SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-BNA-SOIL								
P4495-11	PT-BNA-SOIL	SOIL	bis(2-Chloroethyl)ether	5,500.000	E	83.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Chlorophenol	2,100.000		83.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,2-Dichlorobenzene	2,600.000		84.4	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,3-Dichlorobenzene	3,800.000	E	85.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,4-Dichlorobenzene	4,400.000	E	86.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,2-oxybis(1-Chloropropane)	3,000.000	E	90.7	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	n-Nitroso-di-n-propylamine	5,900.000	E	40.2	79.8	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Hexachloroethane	3,400.000	E	82.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Nitrobenzene	5,800.000	E	90.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Isophorone	4,400.000	E	84.4	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Nitrophenol	2,300.000		94.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	bis(2-Chloroethoxy)methane	4,000.000	E	85.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	1,2,4-Trichlorobenzene	4,600.000	E	85.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Methylnaphthalene	3,200.000	E	82.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,4,6-Trichlorophenol	3,800.000	E	71.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2-Chloronaphthalene	2,300.000		83.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Dimethylphthalate	2,300.000		81.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Acenaphthylene	2,800.000	E	86.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Acenaphthene	2,400.000		80.9	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	4-Nitrophenol	2,800.000	E	120	330	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Dibenzofuran	4,000.000	E	84.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Fluorene	3,600.000	E	85.3	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	4-Bromophenyl-phenylether	3,300.000	E	78.7	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Hexachlorobenzene	2,600.000		84.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Pentachlorophenol	3,200.000	E	77.1	330	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Phenanthrene	2,100.000		83.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Anthracene	2,600.000		84.2	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Carbazole	3,200.000	E	80.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Di-n-butylphthalate	3,100.000	E	84.1	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Fluoranthene	1,600.000		81.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Butylbenzylphthalate	4,000.000	E	96.6	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Benzo(a)anthracene	2,100.000		80.5	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Bis(2-ethylhexyl)phthalate	1,900.000		90.8	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	Indeno(1,2,3-cd)pyrene	1,500.000		77.9	170	ug/Kg
P4495-11	PT-BNA-SOIL	SOIL	2,3,4,6-Tetrachlorophenol	2,300.000		74.5	170	ug/Kg
Total Svoc :				112,500.00				
Total Concentration:				112,500.00				

Hit Summary Sheet SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	PT-BNA-SOILDL							
P4495-11DL	PT-BNA-SOILDL	SOIL	bis(2-Chloroethyl)ether	5,600.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Chlorophenol	1,900.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,2-Dichlorobenzene	2,600.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,3-Dichlorobenzene	3,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,4-Dichlorobenzene	4,700.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,2-oxybis(1-Chloropropane)	2,800.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	n-Nitroso-di-n-propylamine	5,700.000	D	200	400	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Hexachloroethane	3,300.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Nitrobenzene	5,700.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Isophorone	4,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Nitrophenol	2,100.000	D	470	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	bis(2-Chloroethoxy)methane	3,800.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	1,2,4-Trichlorobenzene	4,700.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Methylnaphthalene	3,400.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,4,6-Trichlorophenol	3,800.000	D	360	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2-Chloronaphthalene	2,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Dimethylphthalate	2,400.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Acenaphthylene	2,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Acenaphthene	2,400.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	4-Nitrophenol	2,100.000	D	580	1600	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Dibenzofuran	4,500.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Fluorene	3,900.000	D	430	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	4-Bromophenyl-phenylether	3,500.000	D	390	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Hexachlorobenzene	2,500.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Pentachlorophenol	2,400.000	D	390	1600	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Phenanthrene	2,100.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Anthracene	2,700.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Carbazole	3,300.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Di-n-butylphthalate	3,300.000	D	420	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Fluoranthene	1,600.000	D	410	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Butylbenzylphthalate	3,800.000	D	480	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Benzo(a)anthracene	2,000.000	D	400	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Bis(2-ethylhexyl)phthalate	1,900.000	D	450	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	Indeno(1,2,3-cd)pyrene	1,200.000	D	390	850	ug/Kg
P4495-11DL	PT-BNA-SOILDL	SOIL	2,3,4,6-Tetrachlorophenol	2,100.000	D	370	850	ug/Kg

Total Svoc :

111,200.00

Total Concentration:

111,200.00



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	86.6	U	86.6	330	ug/Kg
110-86-1	Pyridine	79.7	U	79.7	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
62-53-3	Aniline	96.7	U	96.7	170	ug/Kg
108-95-2	Phenol	82.7	U	82.7	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	5500	E	83.5	170	ug/Kg
95-57-8	2-Chlorophenol	2100		83.3	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	2600		84.4	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	3800	E	85.8	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	4400	E	86.3	170	ug/Kg
100-51-6	Benzyl Alcohol	82.8	U	82.8	330	ug/Kg
95-48-7	2-Methylphenol	80.4	U	80.4	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	3000	E	90.7	170	ug/Kg
98-86-2	Acetophenone	86.7	U	86.7	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.6	U	79.6	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	5900	E	40.2	79.8	ug/Kg
67-72-1	Hexachloroethane	3400	E	82.8	170	ug/Kg
98-95-3	Nitrobenzene	5800	E	90.6	170	ug/Kg
78-59-1	Isophorone	4400	E	84.4	170	ug/Kg
88-75-5	2-Nitrophenol	2300		94.3	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.0	U	93.0	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	4000	E	85.6	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.3	U	75.3	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4600	E	85.2	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	330	ug/Kg
91-20-3	Naphthalene	82.4	U	82.4	170	ug/Kg
106-47-8	4-Chloroaniline	82.4	U	82.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.1	U	83.1	170	ug/Kg
105-60-2	Caprolactam	86.6	U	86.6	330	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	77.3	U	77.3	170	ug/Kg
91-57-6	2-Methylnaphthalene	3200	E	82.3	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	3800	E	71.2	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.8	U	73.8	170	ug/Kg
92-52-4	1,1-Biphenyl	87.2	U	87.2	170	ug/Kg
91-58-7	2-Chloronaphthalene	2300		83.1	170	ug/Kg
88-74-4	2-Nitroaniline	94.8	U	94.8	170	ug/Kg
131-11-3	Dimethylphthalate	2300		81.5	170	ug/Kg
208-96-8	Acenaphthylene	2800	E	86.3	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.0	U	83.0	170	ug/Kg
99-09-2	3-Nitroaniline	89.0	U	89.0	170	ug/Kg
83-32-9	Acenaphthene	2400		80.9	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	2800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	4000	E	84.2	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.0	U	86.0	170	ug/Kg
84-66-2	Diethylphthalate	79.9	U	79.9	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.4	U	85.4	170	ug/Kg
86-73-7	Fluorene	3600	E	85.3	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	UQ	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.4	U	81.4	170	ug/Kg
103-33-3	Azobenzene	79.4	U	79.4	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	3300	E	78.7	170	ug/Kg
118-74-1	Hexachlorobenzene	2600		84.8	170	ug/Kg
1912-24-9	Atrazine	91.2	U	91.2	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	77.1	330	ug/Kg
85-01-8	Phenanthrene	2100		83.8	170	ug/Kg
120-12-7	Anthracene	2600		84.2	170	ug/Kg
86-74-8	Carbazole	3200	E	80.1	170	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	3100	E	84.1	170	ug/Kg
206-44-0	Fluoranthene	1600		81.5	170	ug/Kg
92-87-5	Benzidine	160	U	160	330	ug/Kg
129-00-0	Pyrene	82.8	U	82.8	170	ug/Kg
85-68-7	Butylbenzylphthalate	4000	E	96.6	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.4	U	98.4	330	ug/Kg
56-55-3	Benzo(a)anthracene	2100		80.5	170	ug/Kg
218-01-9	Chrysene	79.3	U	79.3	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		90.8	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	80.9	U	80.9	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	82.4	U	82.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.8	U	92.8	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		77.9	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.0	U	81.0	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	79.9	U	79.9	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.6	U	86.6	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2300		74.5	170	ug/Kg
90-12-0	1-Methylnaphthalene	83.0	U	83.0	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.0		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	91.3		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.2		18 - 107	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.3		20 - 109	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	99.2		10 - 116	66%	SPK: 150
1718-51-0	Terphenyl-d14	83.0		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	108000	6.875			
1146-65-2	Naphthalene-d8	423000	8.157			

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140343.D	1	10/25/24 09:50	11/13/24 15:25	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	238000	9.91			
1517-22-2	Phenanthrene-d10	445000	11.404			
1719-03-5	Chrysene-d12	249000	14.08			
1520-96-3	Perylene-d12	223000	15.615			

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	430	UD	430	1600	ug/Kg
110-86-1	Pyridine	400	UD	400	850	ug/Kg
100-52-7	Benzaldehyde	910	UD	910	1600	ug/Kg
62-53-3	Aniline	480	UD	480	850	ug/Kg
108-95-2	Phenol	410	UD	410	850	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	5600	D	420	850	ug/Kg
95-57-8	2-Chlorophenol	1900	D	420	850	ug/Kg
95-50-1	1,2-Dichlorobenzene	2600	D	420	850	ug/Kg
541-73-1	1,3-Dichlorobenzene	3900	D	430	850	ug/Kg
106-46-7	1,4-Dichlorobenzene	4700	D	430	850	ug/Kg
100-51-6	Benzyl Alcohol	410	UD	410	1600	ug/Kg
95-48-7	2-Methylphenol	400	UD	400	850	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2800	D	450	850	ug/Kg
98-86-2	Acetophenone	430	UD	430	850	ug/Kg
65794-96-9	3+4-Methylphenols	400	UD	400	1600	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	5700	D	200	400	ug/Kg
67-72-1	Hexachloroethane	3300	D	410	850	ug/Kg
98-95-3	Nitrobenzene	5700	D	450	850	ug/Kg
78-59-1	Isophorone	4300	D	420	850	ug/Kg
88-75-5	2-Nitrophenol	2100	D	470	850	ug/Kg
105-67-9	2,4-Dimethylphenol	460	UD	460	850	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	3800	D	430	850	ug/Kg
120-83-2	2,4-Dichlorophenol	380	UD	380	850	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4700	D	430	850	ug/Kg
65-85-0	Benzoic acid	1200	UD	1200	1600	ug/Kg
91-20-3	Naphthalene	410	UD	410	850	ug/Kg
106-47-8	4-Chloroaniline	410	UD	410	850	ug/Kg
87-68-3	Hexachlorobutadiene	420	UD	420	850	ug/Kg
105-60-2	Caprolactam	430	UD	430	1600	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	390	UD	390	850	ug/Kg
91-57-6	2-Methylnaphthalene	3400	D	410	850	ug/Kg
77-47-4	Hexachlorocyclopentadiene	780	UD	780	1600	ug/Kg
88-06-2	2,4,6-Trichlorophenol	3800	D	360	850	ug/Kg
95-95-4	2,4,5-Trichlorophenol	370	UD	370	850	ug/Kg
92-52-4	1,1-Biphenyl	440	UD	440	850	ug/Kg
91-58-7	2-Chloronaphthalene	2300	D	420	850	ug/Kg
88-74-4	2-Nitroaniline	470	UD	470	850	ug/Kg
131-11-3	Dimethylphthalate	2400	D	410	850	ug/Kg
208-96-8	Acenaphthylene	2900	D	430	850	ug/Kg
606-20-2	2,6-Dinitrotoluene	420	UD	420	850	ug/Kg
99-09-2	3-Nitroaniline	440	UD	440	850	ug/Kg
83-32-9	Acenaphthene	2400	D	400	850	ug/Kg
51-28-5	2,4-Dinitrophenol	1200	UD	1200	1600	ug/Kg
100-02-7	4-Nitrophenol	2100	D	580	1600	ug/Kg
132-64-9	Dibenzofuran	4500	D	420	850	ug/Kg
121-14-2	2,4-Dinitrotoluene	430	UD	430	850	ug/Kg
84-66-2	Diethylphthalate	400	UD	400	850	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	430	UD	430	850	ug/Kg
86-73-7	Fluorene	3900	D	430	850	ug/Kg
100-01-6	4-Nitroaniline	530	UD	530	850	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	580	UDQ	580	1600	ug/Kg
86-30-6	n-Nitrosodiphenylamine	410	UD	410	850	ug/Kg
103-33-3	Azobenzene	400	UD	400	850	ug/Kg
101-55-3	4-Bromophenyl-phenylether	3500	D	390	850	ug/Kg
118-74-1	Hexachlorobenzene	2500	D	420	850	ug/Kg
1912-24-9	Atrazine	460	UD	460	850	ug/Kg
87-86-5	Pentachlorophenol	2400	D	390	1600	ug/Kg
85-01-8	Phenanthrene	2100	D	420	850	ug/Kg
120-12-7	Anthracene	2700	D	420	850	ug/Kg
86-74-8	Carbazole	3300	D	400	850	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	3300	D	420	850	ug/Kg
206-44-0	Fluoranthene	1600	D	410	850	ug/Kg
92-87-5	Benzidine	810	UD	810	1600	ug/Kg
129-00-0	Pyrene	410	UD	410	850	ug/Kg
85-68-7	Butylbenzylphthalate	3800	D	480	850	ug/Kg
91-94-1	3,3-Dichlorobenzidine	490	UD	490	1600	ug/Kg
56-55-3	Benzo(a)anthracene	2000	D	400	850	ug/Kg
218-01-9	Chrysene	400	UD	400	850	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900	D	450	850	ug/Kg
117-84-0	Di-n-octyl phthalate	550	UD	550	1600	ug/Kg
205-99-2	Benzo(b)fluoranthene	400	UD	400	850	ug/Kg
207-08-9	Benzo(k)fluoranthene	410	UD	410	850	ug/Kg
50-32-8	Benzo(a)pyrene	460	UD	460	850	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1200	D	390	850	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	410	UD	410	850	ug/Kg
191-24-2	Benzo(g,h,i)perylene	400	UD	400	850	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	430	UD	430	850	ug/Kg
123-91-1	1,4-Dioxane	550	UD	550	850	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100	D	370	850	ug/Kg
90-12-0	1-Methylnaphthalene	420	UD	420	850	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.4		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	84.0		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.4		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.8		20 - 109	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.7		10 - 116	61%	SPK: 150
1718-51-0	Terphenyl-d14	78.4		10 - 105	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.875			
1146-65-2	Naphthalene-d8	459000	8.157			

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-BNA-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-11DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140344.D	5	10/25/24 09:50	11/13/24 16:02	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	256000	9.91			
1517-22-2	Phenanthrene-d10	483000	11.398			
1719-03-5	Chrysene-d12	304000	14.063			
1520-96-3	Perylene-d12	246000	15.586			

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

Surrogate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4495-11	PT-BNA-SOIL	2-Fluorophenol	150	88.0	59		18	112
		Phenol-d6	150	91.3	61		15	107
		Nitrobenzene-d5	100	64.2	64		18	107
		2-Fluorobiphenyl	100	65.3	65		20	109
		2,4,6-Tribromophenol	150	99.2	66		10	116
		Terphenyl-d14	100	83.0	83		10	105
P4495-11DL	PT-BNA-SOILDL	2-Fluorophenol	150	82.4	55		18	112
		Phenol-d6	150	84.0	56		15	107
		Nitrobenzene-d5	100	57.4	57		18	107
		2-Fluorobiphenyl	100	64.8	65		20	109
		2,4,6-Tribromophenol	150	91.7	61		10	116
		Terphenyl-d14	100	78.4	78		10	105
P4547-05MS	BP-F-20MS	2-Fluorophenol	150	90.8	61		18	112
		Phenol-d6	150	91.2	61		15	107
		Nitrobenzene-d5	100	66.4	66		18	107
		2-Fluorobiphenyl	100	61.5	61		20	109
		2,4,6-Tribromophenol	150	106	71		10	116
		Terphenyl-d14	100	68.7	69		10	105
P4547-05MSD	BP-F-20MSD	2-Fluorophenol	150	90.8	61		18	112
		Phenol-d6	150	91.9	61		15	107
		Nitrobenzene-d5	100	66.5	66		18	107
		2-Fluorobiphenyl	100	61.6	62		20	109
		2,4,6-Tribromophenol	150	109	73		10	116
		Terphenyl-d14	100	70.4	70		10	105
PB164401BL	PB164401BL	2-Fluorophenol	150	129	86		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	87.1	87		18	107
		2-Fluorobiphenyl	100	85.2	85		20	109
		2,4,6-Tribromophenol	150	121	80		10	116
		Terphenyl-d14	100	82.5	82		10	105
PB164401BS	PB164401BS	2-Fluorophenol	150	115	77		18	112
		Phenol-d6	150	112	75		15	107
		Nitrobenzene-d5	100	85.7	86		18	107
		2-Fluorobiphenyl	100	83.9	84		20	109
		2,4,6-Tribromophenol	150	135	90		10	116
		Terphenyl-d14	100	87.9	88		10	105

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P4547-05MS		Client Sample ID: BP-F-20MS		DataFile: BF140057.D							
n-Nitrosodimethylamine	1200	0	940	ug/Kg	78				66	124	
Pyridine	1200	0	930	ug/Kg	78				45	119	
Benzaldehyde	1200	0	280	ug/Kg	23				10	86	
Aniline	1200	0	570	ug/Kg	48				10	88	
Phenol	1200	0	970	ug/Kg	81				67	126	
bis(2-Chloroethyl)ether	1200	0	940	ug/Kg	78				54	125	
2-Chlorophenol	1200	0	1000	ug/Kg	83				79	107	
1,2-Dichlorobenzene	1200	0	980	ug/Kg	82				61	105	
1,3-Dichlorobenzene	1200	0	930	ug/Kg	78				62	101	
1,4-Dichlorobenzene	1200	0	940	ug/Kg	78				63	104	
Benzyl Alcohol	1200	0	1000	ug/Kg	83				47	126	
2-Methylphenol	1200	0	970	ug/Kg	81				66	122	
2,2-oxybis(1-Chloropropane)	1200	0	910	ug/Kg	76				65	110	
Acetophenone	1200	0	920	ug/Kg	77				75	111	
3+4-Methylphenols	1200	0	940	ug/Kg	78				66	104	
N-Nitroso-di-n-propylamine	1200	0	950	ug/Kg	79				59	119	
Hexachloroethane	1200	0	960	ug/Kg	80				65	117	
Nitrobenzene	1200	0	930	ug/Kg	78				70	119	
Isophorone	1200	0	980	ug/Kg	82				76	122	
2-Nitrophenol	1200	0	1200	ug/Kg	100				54	145	
2,4-Dimethylphenol	1200	0	1100	ug/Kg	92				44	135	
bis(2-Chloroethoxy)methane	1200	0	950	ug/Kg	79				68	112	
2,4-Dichlorophenol	1200	0	990	ug/Kg	83				72	118	
1,2,4-Trichlorobenzene	1200	0	930	ug/Kg	78				57	103	
Benzoic acid	1200	0	890	ug/Kg	74				50	104	
Naphthalene	1200	0	940	ug/Kg	78				72	110	
4-Chloroaniline	1200	0	170	ug/Kg	14				10	91	
Hexachlorobutadiene	1200	0	960	ug/Kg	80				66	114	
Caprolactam	1200	0	990	ug/Kg	83				51	134	
4-Chloro-3-methylphenol	1200	0	990	ug/Kg	83				57	132	
2-Methylnaphthalene	1200	0	980	ug/Kg	82				59	123	
Hexachlorocyclopentadiene	2300	0	3100	ug/Kg	135				10	175	
2,4,6-Trichlorophenol	1200	0	1000	ug/Kg	83				72	117	
2,4,5-Trichlorophenol	1200	0	970	ug/Kg	81				72	117	
1,1-Biphenyl	1200	0	940	ug/Kg	78				75	113	
2-Chloronaphthalene	1200	0	940	ug/Kg	78				67	118	
2-Nitroaniline	1200	0	1100	ug/Kg	92				69	127	
Dimethylphthalate	1200	0	990	ug/Kg	83				70	113	
Acenaphthylene	1200	0	1000	ug/Kg	83				79	118	
2,6-Dinitrotoluene	1200	0	1000	ug/Kg	83				70	125	
3-Nitroaniline	1200	0	440	ug/Kg	37				30	99	
Acenaphthene	1200	0	1100	ug/Kg	92				70	121	
2,4-Dinitrophenol	2300	0	2300	ug/Kg	100				10	155	
4-Nitrophenol	2300	0	1900	ug/Kg	83				45	133	
Dibenzofuran	1200	0	950	ug/Kg	79				72	110	
2,4-Dinitrotoluene	1200	0	1100	ug/Kg	92				55	128	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Diethylphthalate	1200	0	980	ug/Kg	82				70	112	
4-Chlorophenyl-phenylether	1200	0	970	ug/Kg	81				71	108	
Fluorene	1200	0	940	ug/Kg	78				68	116	
4-Nitroaniline	1200	0	970	ug/Kg	81				55	120	
4,6-Dinitro-2-methylphenol	1200	0	1400	ug/Kg	117				10	160	
N-Nitrosodiphenylamine	1200	0	980	ug/Kg	82				73	118	
Azobenzene	1200	0	1000	ug/Kg	83				73	110	
4-Bromophenyl-phenylether	1200	0	1000	ug/Kg	83				65	121	
Hexachlorobenzene	1200	0	980	ug/Kg	82				67	118	
Atrazine	1200	0	1200	ug/Kg	100				79	127	
Pentachlorophenol	2300	0	1900	ug/Kg	83				47	128	
Phenanthrene	1200	0	960	ug/Kg	80				52	128	
Anthracene	1200	0	1000	ug/Kg	83				62	124	
Carbazole	1200	0	910	ug/Kg	76				59	119	
Di-n-butylphthalate	1200	0	1000	ug/Kg	83				69	118	
Fluoranthene	1200	0	870	ug/Kg	73				44	125	
Benzidine	2300	0	1200	ug/Kg	52				10	119	
Pyrene	1200	0	970	ug/Kg	81				26	142	
Butylbenzylphthalate	1200	0	1300	ug/Kg	108				64	126	
3,3-Dichlorobenzidine	1200	0	520	ug/Kg	43				33	116	
Benzo(a)anthracene	1200	0	990	ug/Kg	83				71	114	
Chrysene	1200	0	950	ug/Kg	79				57	121	
bis(2-Ethylhexyl)phthalate	1200	0	1400	ug/Kg	117				42	169	
Di-n-octyl phthalate	1200	0	1200	ug/Kg	100				23	175	
Benzo(b)fluoranthene	1200	0	920	ug/Kg	77				67	121	
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83				57	134	
Benzo(a)pyrene	1200	0	1100	ug/Kg	92				70	142	
Indeno(1,2,3-cd)pyrene	1200	0	880	ug/Kg	73				40	129	
Dibenz(a,h)anthracene	1200	0	890	ug/Kg	74				43	123	
Benzo(g,h,i)perylene	1200	0	740	ug/Kg	62				24	125	
1,2,4,5-Tetrachlorobenzene	1200	0	960	ug/Kg	80				69	124	
1,4-Dioxane	1200	0	890	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1200	0	1000	ug/Kg	83				69	112	
1-Methylnaphthalene	1200	0	930	ug/Kg	78				70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4547-05MSD	Client Sample ID:	BP-F-20MSD					DataFile:	BF140058.D		
n-Nitrosodimethylamine	1200	0	900	ug/Kg	75	4			66	124	20
Pyridine	1200	0	880	ug/Kg	73	7			45	119	20
Benzaldehyde	1200	0	280	ug/Kg	23	0			10	86	20
Aniline	1200	0	580	ug/Kg	48	0			10	88	20
Phenol	1200	0	990	ug/Kg	83	2			67	126	20
bis(2-Chloroethyl)ether	1200	0	970	ug/Kg	81	4			54	125	20
2-Chlorophenol	1200	0	1000	ug/Kg	83	0			79	107	20
1,2-Dichlorobenzene	1200	0	980	ug/Kg	82	0			61	105	20
1,3-Dichlorobenzene	1200	0	950	ug/Kg	79	1			62	101	20
1,4-Dichlorobenzene	1200	0	970	ug/Kg	81	4			63	104	20
Benzyl Alcohol	1200	0	1000	ug/Kg	83	0			47	126	20
2-Methylphenol	1200	0	990	ug/Kg	83	2			66	122	20
2,2-oxybis(1-Chloropropane)	1200	0	920	ug/Kg	77	1			65	110	20
Acetophenone	1200	0	930	ug/Kg	78	1			75	111	20
3+4-Methylphenols	1200	0	960	ug/Kg	80	3			66	104	20
N-Nitroso-di-n-propylamine	1200	0	960	ug/Kg	80	1			59	119	20
Hexachloroethane	1200	0	970	ug/Kg	81	1			65	117	20
Nitrobenzene	1200	0	940	ug/Kg	78	0			70	119	20
Isophorone	1200	0	990	ug/Kg	83	1			76	122	20
2-Nitrophenol	1200	0	1200	ug/Kg	100	0			54	145	20
2,4-Dimethylphenol	1200	0	1100	ug/Kg	92	0			44	135	20
bis(2-Chloroethoxy)methane	1200	0	970	ug/Kg	81	3			68	112	20
2,4-Dichlorophenol	1200	0	990	ug/Kg	83	0			72	118	20
1,2,4-Trichlorobenzene	1200	0	930	ug/Kg	78	0			57	103	20
Benzoic acid	1200	0	900	ug/Kg	75	1			50	104	20
Naphthalene	1200	0	950	ug/Kg	79	1			72	110	20
4-Chloroaniline	1200	0	170	ug/Kg	14	0			10	91	20
Hexachlorobutadiene	1200	0	990	ug/Kg	83	4			66	114	20
Caprolactam	1200	0	1000	ug/Kg	83	0			51	134	20
4-Chloro-3-methylphenol	1200	0	1000	ug/Kg	83	0			57	132	20
2-Methylnaphthalene	1200	0	980	ug/Kg	82	0			59	123	20
Hexachlorocyclopentadiene	2300	0	3100	ug/Kg	135	0			10	175	20
2,4,6-Trichlorophenol	1200	0	1000	ug/Kg	83	0			72	117	20
2,4,5-Trichlorophenol	1200	0	990	ug/Kg	83	2			72	117	20
1,1-Biphenyl	1200	0	950	ug/Kg	79	1			75	113	20
2-Chloronaphthalene	1200	0	940	ug/Kg	78	0			67	118	20
2-Nitroaniline	1200	0	1100	ug/Kg	92	0			69	127	20
Dimethylphthalate	1200	0	1000	ug/Kg	83	0			70	113	20
Acenaphthylene	1200	0	1000	ug/Kg	83	0			79	118	20
2,6-Dinitrotoluene	1200	0	1000	ug/Kg	83	0			70	125	20
3-Nitroaniline	1200	0	450	ug/Kg	38	3			30	99	20
Acenaphthene	1200	0	1100	ug/Kg	92	0			70	121	20
2,4-Dinitrophenol	2300	0	2400	ug/Kg	104	4			10	155	20
4-Nitrophenol	2300	0	2000	ug/Kg	87	5			45	133	20
Dibenzofuran	1200	0	980	ug/Kg	82	4			72	110	20
2,4-Dinitrotoluene	1200	0	1100	ug/Kg	92	0			55	128	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Diethylphthalate	1200	0	990	ug/Kg	83	1			70	112	20
4-Chlorophenyl-phenylether	1200	0	980	ug/Kg	82	1			71	108	20
Fluorene	1200	0	950	ug/Kg	79	1			68	116	20
4-Nitroaniline	1200	0	1000	ug/Kg	83	2			55	120	20
4,6-Dinitro-2-methylphenol	1200	0	1400	ug/Kg	117	0			10	160	20
N-Nitrosodiphenylamine	1200	0	990	ug/Kg	83	1			73	118	20
Azobenzene	1200	0	1000	ug/Kg	83	0			73	110	20
4-Bromophenyl-phenylether	1200	0	1000	ug/Kg	83	0			65	121	20
Hexachlorobenzene	1200	0	990	ug/Kg	83	1			67	118	20
Atrazine	1200	0	1200	ug/Kg	100	0			79	127	20
Pentachlorophenol	2300	0	1900	ug/Kg	83	0			47	128	20
Phenanthrene	1200	0	970	ug/Kg	81	1			52	128	20
Anthracene	1200	0	1000	ug/Kg	83	0			62	124	20
Carbazole	1200	0	910	ug/Kg	76	0			59	119	20
Di-n-butylphthalate	1200	0	1000	ug/Kg	83	0			69	118	20
Fluoranthene	1200	0	890	ug/Kg	74	1			44	125	20
Benzidine	2300	0	1300	ug/Kg	57	9			10	119	20
Pyrene	1200	0	980	ug/Kg	82	1			26	142	20
Butylbenzylphthalate	1200	0	1300	ug/Kg	108	0			64	126	20
3,3-Dichlorobenzidine	1200	0	530	ug/Kg	44	2			33	116	20
Benzo(a)anthracene	1200	0	1000	ug/Kg	83	0			71	114	20
Chrysene	1200	0	970	ug/Kg	81	3			57	121	20
bis(2-Ethylhexyl)phthalate	1200	0	1500	ug/Kg	125	7			42	169	20
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108	8			23	175	20
Benzo(b)fluoranthene	1200	0	920	ug/Kg	77	0			67	121	20
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83	0			57	134	20
Benzo(a)pyrene	1200	0	1100	ug/Kg	92	0			70	142	20
Indeno(1,2,3-cd)pyrene	1200	0	890	ug/Kg	74	1			40	129	20
Dibenz(a,h)anthracene	1200	0	890	ug/Kg	74	0			43	123	20
Benzo(g,h,i)perylene	1200	0	740	ug/Kg	62	0			24	125	20
1,2,4,5-Tetrachlorobenzene	1200	0	960	ug/Kg	80	0			69	124	20
1,4-Dioxane	1200	0	860	ug/Kg	72	3			46	112	20
2,3,4,6-Tetrachlorophenol	1200	0	1000	ug/Kg	83	0			69	112	20
1-Methylnaphthalene	1200	0	940	ug/Kg	78	0			70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E DataFile: BF140052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB164401BS	n-Nitrosodimethylamine	1700	1300	ug/Kg	76				57	103	
	Pyridine	1700	1300	ug/Kg	76				28	98	
	Benzaldehyde	1700	450	ug/Kg	26				10	133	
	Aniline	1700	1200	ug/Kg	71				38	100	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	1,2-Dichlorobenzene	1700	1500	ug/Kg	88				51	102	
	1,3-Dichlorobenzene	1700	1400	ug/Kg	82				52	99	
	1,4-Dichlorobenzene	1700	1400	ug/Kg	82				52	100	
	Benzyl Alcohol	1700	1500	ug/Kg	88				42	116	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1700	ug/Kg	100				61	111	
	2,4-Dimethylphenol	1700	1600	ug/Kg	94				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	1,2,4-Trichlorobenzene	1700	1400	ug/Kg	82				44	110	
	Benzoic acid	1700	1300	ug/Kg	76				10	140	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	580	ug/Kg	34				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	5400	ug/Kg	164				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				37	128	
	4-Nitrophenol	3300	3200	ug/Kg	97				48	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8270E DataFile: BF140052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB164401BS	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118		*		76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	Azobenzene	1700	1400	ug/Kg	82				54	103	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	
	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1700	ug/Kg	100				47	152	
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Benzidine	3300	1600	ug/Kg	48				10	98	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				54	135	
	Di-n-octyl phthalate	1700	1300	ug/Kg	76				52	137	
	Benzo(b)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108	
	1-Methylnaphthalene	1700	1400	ug/Kg	82				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164401BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140342.D

Lab Sample ID: PB164401BL

Instrument ID: BNA_F

Date Extracted: 10/25/2024

Matrix: (soil/water) SOIL

Date Analyzed: 11/13/2024

Level: (low/med) LOW

Time Analyzed: 13:45

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PT-BNA-SOIL	P4495-11	BF140343.D	11/13/2024
BP-F-20MS	P4547-05MS	BF140057.D	10/26/2024
BP-F-20MSD	P4547-05MSD	BF140058.D	10/26/2024
PB164401BS	PB164401BS	BF140052.D	10/26/2024

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM

SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF139843.D

DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F

DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.9 (19.2) 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	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM

SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140049.D

DFTPP Injection Date: 10/26/2024

Instrument ID: BNA_F

DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.5
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	6.5
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140050.D	10/26/2024	10:38
PB164401BS	PB164401BS	BF140052.D	10/26/2024	11:34
BP-F-20MS	P4547-05MS	BF140057.D	10/26/2024	13:58
BP-F-20MSD	P4547-05MSD	BF140058.D	10/26/2024	14:27

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM

SAS No.: P4495 SDG NO.: P4495

Lab File ID: BF140331.D

DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F

DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
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 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48
PB164401BL	PB164401BL	BF140342.D	11/13/2024	13:45
PT-BNA-SOIL	P4495-11	BF140343.D	11/13/2024	15:25
PT-BNA-SOILDL	P4495-11DL	BF140344.D	11/13/2024	16:02

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	128827	6.892	465620	8.18	252523	9.93
UPPER LIMIT	257654	7.392	931240	8.675	505046	10.428
LOWER LIMIT	64413.5	6.392	232810	7.675	126262	9.428
EPA SAMPLE NO.						
01 PB164401BS	133953	6.89	523078	8.17	286545	9.93
02 BP-F-20MS	141513	6.89	556548	8.17	317233	9.93
03 BP-F-20MSD	142054	6.89	561979	8.17	322249	9.93

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	452033	11.416	241717	14.051	235878	15.533
UPPER LIMIT	904066	11.916	483434	14.551	471756	16.033
LOWER LIMIT	226017	10.916	120859	13.551	117939	15.033
EPA SAMPLE NO.						
01 PB164401BS	514956	11.42	290190	14.06	270508	15.53
02 BP-F-20MS	543034	11.42	260710	14.05	285198	15.53
03 BP-F-20MSD	559748	11.42	268566	14.05	301700	15.53

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/13/2024

Lab File ID: BF140340.D Time Analyzed: 12:48

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	147186	6.875	589077	8.16	334544	9.92
UPPER LIMIT	294372	7.375	1178150	8.657	669088	10.416
LOWER LIMIT	73593	6.375	294539	7.657	167272	9.416
EPA SAMPLE NO.						
01 PB164401BL	155301	6.88	608379	8.16	344211	9.91
02 PT-BNA-SOIL	108039	6.88	422748	8.16	238094	9.91
03 PT-BNA-SOILDL	114318	6.88	459141	8.16	255752	9.91

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/13/2024

Lab File ID: BF140340.D Time Analyzed: 12:48

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	628587	11.404	385940	14.063	322417	15.58
UPPER LIMIT	1257170	11.904	771880	14.563	644834	16.08
LOWER LIMIT	314294	10.904	192970	13.563	161209	15.08
EPA SAMPLE NO.						
01 PB164401BL	680121	11.40	465934	14.06	362493	15.57
02 PT-BNA-SOIL	444526	11.40	249001	14.08	223254	15.62
03 PT-BNA-SOILDL	482859	11.40	303940	14.06	245817	15.59

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BL	SDG No.:	P4495
Lab Sample ID:	PB164401BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	86.8	U	86.8	330	ug/Kg
110-86-1	Pyridine	79.9	U	79.9	170	ug/Kg
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
62-53-3	Aniline	96.9	U	96.9	170	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
95-50-1	1,2-Dichlorobenzene	84.6	U	84.6	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	86.0	U	86.0	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	86.5	U	86.5	170	ug/Kg
100-51-6	Benzyl Alcohol	83.0	U	83.0	330	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
120-82-1	1,2,4-Trichlorobenzene	85.4	U	85.4	170	ug/Kg
65-85-0	Benzoic acid	240	U	240	330	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BL	SDG No.:	P4495
Lab Sample ID:	PB164401BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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
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
103-33-3	Azobenzene	79.6	U	79.6	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164401BL		SDG No.:	P4495
Lab Sample ID:	PB164401BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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
92-87-5	Benzidine	160	U	160	330	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
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
90-12-0	1-Methylnaphthalene	83.2	U	83.2	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	129		18 - 112	86%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.1		18 - 107	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.2		20 - 109	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		10 - 116	80%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		10 - 105	82%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	155000	6.875
1146-65-2	Naphthalene-d8	608000	8.157

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164401BL		SDG No.:	P4495
Lab Sample ID:	PB164401BL		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
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
BF140342.D	1	10/25/24 09:50	11/13/24 13:45	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	344000	9.91			
1517-22-2	Phenanthrene-d10	680000	11.398			
1719-03-5	Chrysene-d12	466000	14.057			
1520-96-3	Perylene-d12	362000	15.574			

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BS	SDG No.:	P4495
Lab Sample ID:	PB164401BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	1300		86.7	330	ug/Kg
110-86-1	Pyridine	1300		79.8	170	ug/Kg
100-52-7	Benzaldehyde	450		180	330	ug/Kg
62-53-3	Aniline	1200		96.8	170	ug/Kg
108-95-2	Phenol	1400		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.4	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	1500		84.5	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	1400		85.9	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	1400		86.4	170	ug/Kg
100-51-6	Benzyl Alcohol	1500		82.9	330	ug/Kg
95-48-7	2-Methylphenol	1400		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		90.8	170	ug/Kg
98-86-2	Acetophenone	1400		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	1400		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		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
120-82-1	1,2,4-Trichlorobenzene	1400		85.3	170	ug/Kg
65-85-0	Benzoic acid	1300		240	330	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	580		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	330	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164401BS	SDG No.:	P4495
Lab Sample ID:	PB164401BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5400	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1000		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3200	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
103-33-3	Azobenzene	1400		79.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		84.9	170	ug/Kg
1912-24-9	Atrazine	1700		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1500		83.9	170	ug/Kg
120-12-7	Anthracene	1500		84.3	170	ug/Kg
86-74-8	Carbazole	1500		80.2	170	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164401BS		SDG No.:	P4495
Lab Sample ID:	PB164401BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.03	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
92-87-5	Benzidine	1600		160	330	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	1000		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		81.0	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.6	170	ug/Kg
90-12-0	1-Methylnaphthalene	1400		83.1	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	115		18 - 112	77%	SPK: 150
13127-88-3	Phenol-d6	112		15 - 107	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.7		18 - 107	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.9		20 - 109	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		10 - 116	90%	SPK: 150
1718-51-0	Terphenyl-d14	87.9		10 - 105	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	134000	6.887			
1146-65-2	Naphthalene-d8	523000	8.169			

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164401BS		SDG No.:	P4495
Lab Sample ID:	PB164401BS		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	100
Sample Wt/Vol:	30.03	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group1
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
BF140052.D	1	10/25/24 09:50	10/26/24 11:34	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	287000	9.928			
1517-22-2	Phenanthrene-d10	515000	11.416			
1719-03-5	Chrysene-d12	290000	14.057			
1520-96-3	Perylene-d12	271000	15.527			

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	940		60.1	230	ug/Kg
110-86-1	Pyridine	930		55.3	120	ug/Kg
100-52-7	Benzaldehyde	280		130	230	ug/Kg
62-53-3	Aniline	570		67.0	120	ug/Kg
108-95-2	Phenol	970		57.4	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	940		57.9	120	ug/Kg
95-57-8	2-Chlorophenol	1000		57.8	120	ug/Kg
95-50-1	1,2-Dichlorobenzene	980		58.5	120	ug/Kg
541-73-1	1,3-Dichlorobenzene	930		59.5	120	ug/Kg
106-46-7	1,4-Dichlorobenzene	940		59.8	120	ug/Kg
100-51-6	Benzyl Alcohol	1000		57.4	230	ug/Kg
95-48-7	2-Methylphenol	970		55.8	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	910		62.9	120	ug/Kg
98-86-2	Acetophenone	920		60.1	120	ug/Kg
65794-96-9	3+4-Methylphenols	940		55.2	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	950		27.9	55.3	ug/Kg
67-72-1	Hexachloroethane	960		57.4	120	ug/Kg
98-95-3	Nitrobenzene	930		62.8	120	ug/Kg
78-59-1	Isophorone	980		58.5	120	ug/Kg
88-75-5	2-Nitrophenol	1200		65.4	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		64.5	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	950		59.4	120	ug/Kg
120-83-2	2,4-Dichlorophenol	990		52.2	120	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	930		59.1	120	ug/Kg
65-85-0	Benzoic acid	890		160	230	ug/Kg
91-20-3	Naphthalene	940		57.1	120	ug/Kg
106-47-8	4-Chloroaniline	170		57.1	120	ug/Kg
87-68-3	Hexachlorobutadiene	960		57.6	120	ug/Kg
105-60-2	Caprolactam	990		60.1	230	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	990		53.6	120	ug/Kg
91-57-6	2-Methylnaphthalene	980		57.1	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		49.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	970		51.2	120	ug/Kg
92-52-4	1,1-Biphenyl	940		60.5	120	ug/Kg
91-58-7	2-Chloronaphthalene	940		57.6	120	ug/Kg
88-74-4	2-Nitroaniline	1100		65.7	120	ug/Kg
131-11-3	Dimethylphthalate	990		56.5	120	ug/Kg
208-96-8	Acenaphthylene	1000		59.8	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		57.6	120	ug/Kg
99-09-2	3-Nitroaniline	440		61.7	120	ug/Kg
83-32-9	Acenaphthene	1100		56.1	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2300	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	1900	E	80.3	230	ug/Kg
132-64-9	Dibenzofuran	950		58.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		59.6	120	ug/Kg
84-66-2	Diethylphthalate	980		55.4	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	970		59.2	120	ug/Kg
86-73-7	Fluorene	940		59.2	120	ug/Kg
100-01-6	4-Nitroaniline	970		74.0	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		80.9	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	980		56.5	120	ug/Kg
103-33-3	Azobenzene	1000		55.1	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		54.6	120	ug/Kg
118-74-1	Hexachlorobenzene	980		58.8	120	ug/Kg
1912-24-9	Atrazine	1200		63.2	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	53.5	230	ug/Kg
85-01-8	Phenanthrene	960		58.1	120	ug/Kg
120-12-7	Anthracene	1000		58.4	120	ug/Kg
86-74-8	Carbazole	910		55.6	120	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1000		58.3	120	ug/Kg
206-44-0	Fluoranthene	870		56.5	120	ug/Kg
92-87-5	Benzidine	1200		110	230	ug/Kg
129-00-0	Pyrene	970		57.4	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.0	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	520		68.2	230	ug/Kg
56-55-3	Benzo(a)anthracene	990		55.8	120	ug/Kg
218-01-9	Chrysene	950		55.0	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		63.0	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		76.1	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	920		56.1	120	ug/Kg
207-08-9	Benzo(k)fluoranthene	1000		57.1	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		64.3	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	880		54.0	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	890		56.2	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		55.4	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	960		60.1	120	ug/Kg
123-91-1	1,4-Dioxane	890		76.1	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		51.7	120	ug/Kg
90-12-0	1-Methylnaphthalene	930		57.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.8		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	91.2		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.4		18 - 107	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.5		20 - 109	61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	68.7		10 - 105	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.887			
1146-65-2	Naphthalene-d8	557000	8.169			

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MS	SDG No.:	P4495
Lab Sample ID:	P4547-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140057.D	1	10/25/24 09:50	10/26/24 13:58	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	317000	9.928			
1517-22-2	Phenanthrene-d10	543000	11.416			
1719-03-5	Chrysene-d12	261000	14.051			
1520-96-3	Perylene-d12	285000	15.527			

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
62-75-9	n-Nitrosodimethylamine	900		60.1	230	ug/Kg
110-86-1	Pyridine	880		55.3	120	ug/Kg
100-52-7	Benzaldehyde	280		130	230	ug/Kg
62-53-3	Aniline	580		67.1	120	ug/Kg
108-95-2	Phenol	990		57.4	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	970		58.0	120	ug/Kg
95-57-8	2-Chlorophenol	1000		57.8	120	ug/Kg
95-50-1	1,2-Dichlorobenzene	980		58.6	120	ug/Kg
541-73-1	1,3-Dichlorobenzene	950		59.5	120	ug/Kg
106-46-7	1,4-Dichlorobenzene	970		59.9	120	ug/Kg
100-51-6	Benzyl Alcohol	1000		57.5	230	ug/Kg
95-48-7	2-Methylphenol	990		55.8	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	920		62.9	120	ug/Kg
98-86-2	Acetophenone	930		60.2	120	ug/Kg
65794-96-9	3+4-Methylphenols	960		55.3	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	960		27.9	55.4	ug/Kg
67-72-1	Hexachloroethane	970		57.5	120	ug/Kg
98-95-3	Nitrobenzene	940		62.9	120	ug/Kg
78-59-1	Isophorone	990		58.6	120	ug/Kg
88-75-5	2-Nitrophenol	1200		65.4	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		64.5	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	970		59.4	120	ug/Kg
120-83-2	2,4-Dichlorophenol	990		52.3	120	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	930		59.1	120	ug/Kg
65-85-0	Benzoic acid	900		160	230	ug/Kg
91-20-3	Naphthalene	950		57.2	120	ug/Kg
106-47-8	4-Chloroaniline	170		57.2	120	ug/Kg
87-68-3	Hexachlorobutadiene	990		57.7	120	ug/Kg
105-60-2	Caprolactam	1000		60.1	230	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
59-50-7	4-Chloro-3-methylphenol	1000		53.7	120	ug/Kg
91-57-6	2-Methylnaphthalene	980		57.1	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		49.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	990		51.2	120	ug/Kg
92-52-4	1,1-Biphenyl	950		60.5	120	ug/Kg
91-58-7	2-Chloronaphthalene	940		57.7	120	ug/Kg
88-74-4	2-Nitroaniline	1100		65.8	120	ug/Kg
131-11-3	Dimethylphthalate	1000		56.6	120	ug/Kg
208-96-8	Acenaphthylene	1000		59.9	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		57.6	120	ug/Kg
99-09-2	3-Nitroaniline	450		61.8	120	ug/Kg
83-32-9	Acenaphthene	1100		56.2	120	ug/Kg
51-28-5	2,4-Dinitrophenol	2400	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2000	E	80.3	230	ug/Kg
132-64-9	Dibenzofuran	980		58.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		59.7	120	ug/Kg
84-66-2	Diethylphthalate	990		55.5	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	980		59.3	120	ug/Kg
86-73-7	Fluorene	950		59.2	120	ug/Kg
100-01-6	4-Nitroaniline	1000		74.1	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		81.0	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	990		56.5	120	ug/Kg
103-33-3	Azobenzene	1000		55.1	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		54.6	120	ug/Kg
118-74-1	Hexachlorobenzene	990		58.9	120	ug/Kg
1912-24-9	Atrazine	1200		63.3	120	ug/Kg
87-86-5	Pentachlorophenol	1900	E	53.5	230	ug/Kg
85-01-8	Phenanthrene	970		58.2	120	ug/Kg
120-12-7	Anthracene	1000		58.4	120	ug/Kg
86-74-8	Carbazole	910		55.6	120	ug/Kg

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
84-74-2	Di-n-butylphthalate	1000		58.4	120	ug/Kg
206-44-0	Fluoranthene	890		56.6	120	ug/Kg
92-87-5	Benzidine	1300		110	230	ug/Kg
129-00-0	Pyrene	980		57.5	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.0	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	530		68.3	230	ug/Kg
56-55-3	Benzo(a)anthracene	1000		55.9	120	ug/Kg
218-01-9	Chrysene	970		55.0	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		63.0	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.2	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	920		56.2	120	ug/Kg
207-08-9	Benzo(k)fluoranthene	1000		57.2	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		64.4	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	890		54.1	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	890		56.2	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		55.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	960		60.1	120	ug/Kg
123-91-1	1,4-Dioxane	860		76.2	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		51.7	120	ug/Kg
90-12-0	1-Methylnaphthalene	940		57.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.8		18 - 112	61%	SPK: 150
13127-88-3	Phenol-d6	91.9		15 - 107	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.5		18 - 107	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.6		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		10 - 116	73%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.887			
1146-65-2	Naphthalene-d8	562000	8.169			

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	BP-F-20MSD	SDG No.:	P4495
Lab Sample ID:	P4547-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140058.D	1	10/25/24 09:50	10/26/24 14:27	PB164401

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
15067-26-2	Acenaphthene-d10	322000	9.928			
1517-22-2	Phenanthrene-d10	560000	11.416			
1719-03-5	Chrysene-d12	269000	14.051			
1520-96-3	Perylene-d12	302000	15.527			

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024
Calibration Time(s): 10:27 13:46

LAB FILE ID:		RRF2.5 = BF139844.D			RRF005 = BF139845.D		RRF010 = BF139846.D	
		RRF020 = BF139847.D			RRF040 = BF139848.D		RRF050 = BF139849.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.815	0.800	0.799	0.806	0.782	0.793	2.4
Pyridine		1.622	1.570	1.522	1.504	1.386	1.476	7.3
2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.278	10.1
Benzaldehyde			1.137	1.042	0.940	0.873	0.931	15.2
Aniline		1.673	1.649	1.618	1.582	1.471	1.542	8.1
Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.655	10.1
Phenol		1.952	1.832	1.760	1.712	1.583	1.706	9.2
bis(2-Chloroethyl)ether		1.470	1.423	1.359	1.294	1.251	1.319	7.8
2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.306	10.2
1,2-Dichlorobenzene		1.660	1.579	1.478	1.379	1.273	1.398	13.2
1,3-Dichlorobenzene		1.718	1.656	1.544	1.499	1.392	1.499	10.2
1,4-Dichlorobenzene		1.723	1.641	1.558	1.487	1.392	1.498	10.2
Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.214	8.1
2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.114	7.7
2,2-oxybis(1-Chloropropane)		2.524	2.409	2.353	2.255	2.117	2.248	8.7
Acetophenone		0.578	0.533	0.516	0.481	0.452	0.490	11.4
3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.424	12.4
n-Nitroso-di-n-propylamine	1.105	1.141	1.066	1.025	0.974	0.921	1.004	9.6
Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.361	2.9
Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.534	7.1
Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.396	4.1
Isophorone		0.755	0.709	0.702	0.679	0.652	0.685	5.9
2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.149	9.2
2,4-Dimethylphenol		0.285	0.259	0.256	0.248	0.237	0.249	8.1
bis(2-Chloroethoxy)methane		0.468	0.440	0.432	0.412	0.394	0.415	8.2
2,4-Dichlorophenol		0.308	0.297	0.293	0.283	0.272	0.283	6.2
1,2,4-Trichlorobenzene		0.351	0.331	0.325	0.315	0.298	0.314	7.7
Benzoic acid			0.175	0.207	0.220	0.231	0.217	10.7
Naphthalene		1.209	1.121	1.091	1.023	0.958	1.031	11.2
4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.352	9.3
Hexachlorobutadiene		0.224	0.206	0.203	0.197	0.185	0.197	8.0
Caprolactam		0.092	0.092	0.092	0.092	0.088	0.090	2.9
4-Chloro-3-methylphenol		0.341	0.328	0.324	0.315	0.299	0.314	6.0
2-Methylnaphthalene		0.740	0.689	0.666	0.621	0.587	0.632	11.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024
Calibration Time(s): 10:27 13:46

LAB FILE ID:		RRF2.5 = BF139844.D			RRF005 = BF139845.D		RRF010 = BF139846.D	
		RRF020 = BF139847.D			RRF040 = BF139848.D		RRF050 = BF139849.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Hexachlorocyclopentadiene		0.185	0.193	0.198	0.198	0.186	0.188	5.3
2,4,6-Trichlorophenol		0.405	0.382	0.400	0.387	0.363	0.382	4.8
2-Fluorobiphenyl		1.512	1.396	1.280	1.162	1.088	1.210	16.0
2,4,5-Trichlorophenol		0.426	0.425	0.398	0.401	0.381	0.394	6.6
1,1-Biphenyl		1.640	1.536	1.483	1.379	1.285	1.392	12.2
2-Chloronaphthalene		1.288	1.225	1.164	1.111	1.048	1.121	10.0
2-Nitroaniline		0.299	0.318	0.353	0.365	0.354	0.343	7.2
Dimethylphthalate		1.410	1.344	1.283	1.237	1.172	1.246	8.6
Acenaphthylene		1.854	1.756	1.717	1.615	1.507	1.621	10.1
2,6-Dinitrotoluene		0.256	0.266	0.278	0.280	0.273	0.270	3.4
3-Nitroaniline		0.270	0.275	0.296	0.292	0.276	0.278	4.8
Acenaphthene		1.200	1.136	1.089	1.044	0.977	1.049	9.5
2,4-Dinitrophenol			0.056	0.077	0.101	0.101	0.093	23.9
4-Nitrophenol		0.187	0.207	0.225	0.232	0.219	0.214	6.8
Dibenzofuran		1.767	1.659	1.579	1.486	1.389	1.505	11.5
2,4-Dinitrotoluene		0.280	0.314	0.337	0.356	0.344	0.332	7.9
Diethylphthalate		1.366	1.308	1.267	1.214	1.165	1.223	8.0
4-Chlorophenyl-phenylether		0.698	0.638	0.617	0.569	0.526	0.579	13.1
Fluorene		1.409	1.309	1.201	1.110	1.029	1.146	14.7
4-Nitroaniline		0.249	0.259	0.270	0.275	0.263	0.263	3.6
4,6-Dinitro-2-methylphenol			0.055	0.072	0.087	0.090	0.082	18.6
n-Nitrosodiphenylamine		0.672	0.641	0.621	0.595	0.568	0.599	8.1
Azobenzene		1.459	1.385	1.355	1.306	1.216	1.297	8.6
2,4,6-Tribromophenol		0.201	0.196	0.193	0.188	0.179	0.187	5.5
4-Bromophenyl-phenylether		0.230	0.217	0.211	0.202	0.197	0.206	7.0
Hexachlorobenzene		0.258	0.245	0.237	0.231	0.217	0.232	7.2
Atrazine		0.189	0.175	0.156	0.175	0.135	0.162	11.4
Pentachlorophenol		0.118	0.137	0.148	0.152	0.145	0.141	8.0
Phenanthrene		1.121	1.035	0.994	0.933	0.863	0.945	11.8
Anthracene		1.082	1.014	0.972	0.913	0.851	0.922	11.5
Carbazole		1.002	0.964	0.923	0.846	0.776	0.857	12.6
Di-n-butylphthalate		1.104	1.071	1.062	1.014	0.923	0.990	9.8
Fluoranthene		1.149	1.108	1.036	0.943	0.842	0.955	15.3
Benzidine		0.457	0.461	0.293	0.366	0.276	0.329	30.9
Pyrene		1.892	1.828	1.900	1.805	1.685	1.751	8.4

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024
Calibration Time(s): 10:27 13:46

LAB FILE ID:		RRF2.5 = BF139844.D		RRF005 = BF139845.D		RRF010 = BF139846.D		
		RRF020 = BF139847.D		RRF040 = BF139848.D		RRF050 = BF139849.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Terphenyl-d14		1.381	1.335	1.340	1.244	1.154	1.227	11.0
Butylbenzylphthalate		0.490	0.513	0.536	0.555	0.535	0.525	4.0
3,3-Dichlorobenzidine		0.368	0.372	0.390	0.387	0.374	0.380	2.2
Benzo (a) anthracene		1.425	1.355	1.329	1.331	1.267	1.302	6.5
Chrysene		1.325	1.244	1.234	1.167	1.134	1.194	6.5
Bis (2-ethylhexyl) phthalate		0.520	0.539	0.577	0.626	0.620	0.589	7.5
Di-n-octyl phthalate			0.786	0.930	1.135	1.182	1.071	16.1
Benzo (b) fluoranthene		1.317	1.240	1.319	1.196	1.105	1.218	7.1
Benzo (k) fluoranthene		1.213	1.177	0.992	1.066	1.030	1.051	10.4
Benzo (a) pyrene		1.030	1.024	1.018	1.025	0.974	1.002	3.1
Indeno (1,2,3-cd) pyrene		1.209	1.261	1.307	1.352	1.299	1.287	3.8
Dibenzo (a,h) anthracene		1.021	1.064	1.103	1.120	1.083	1.073	3.3
Benzo (g,h,i) perylene		1.030	1.046	1.090	1.128	1.081	1.072	3.4
1,2,4,5-Tetrachlorobenzene		0.609	0.579	0.562	0.537	0.512	0.540	8.7
1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.596	5.7
2,3,4,6-Tetrachlorophenol		0.334	0.322	0.326	0.310	0.296	0.309	6.3
1-Methylnaphthalene		0.726	0.683	0.655	0.612	0.569	0.620	11.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D			RRF005 = BF140333.D		RRF010 = BF140334.D	
		RRF020 = BF140335.D			RRF050 = BF140337.D		RRF060 = BF140338.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
n-Nitrosodimethylamine		0.658	0.632	0.651	0.644	0.671	0.649	2.4
Pyridine		1.430	1.343	1.323	1.189	1.237	1.283	7.6
2-Fluorophenol		1.329	1.257	1.223	1.090	1.118	1.171	8.8
Benzaldehyde		1.101	1.087	1.017	0.828	0.783	0.951	14.3
Aniline		1.587	1.527	1.495	1.267	1.270	1.381	13.4
Phenol-d6		1.773	1.691	1.643	1.483	1.507	1.587	8.1
Phenol		1.799	1.793	1.743	1.582	1.597	1.674	7.3
bis(2-Chloroethyl)ether		1.359	1.294	1.306	1.227	1.249	1.268	4.6
2-Chlorophenol		1.397	1.349	1.332	1.176	1.184	1.258	8.5
1,2-Dichlorobenzene		1.494	1.429	1.398	1.212	1.214	1.307	10.6
1,3-Dichlorobenzene		1.585	1.475	1.454	1.291	1.317	1.388	9.0
1,4-Dichlorobenzene		1.590	1.534	1.486	1.306	1.326	1.408	9.5
Benzyl Alcohol		1.172	1.193	1.199	1.100	1.108	1.143	6.1
2-Methylphenol		1.092	1.062	1.072	0.998	1.016	1.035	5.1
2,2-oxybis(1-Chloropropane)		1.906	1.826	1.815	1.666	1.684	1.752	7.0
Acetophenone		0.532	0.508	0.481	0.434	0.441	0.465	9.4
3+4-Methylphenols		1.436	1.427	1.359	1.200	1.198	1.295	10.2
n-Nitroso-di-n-propylamine	1.032	1.029	1.003	0.986	0.883	0.905	0.959	7.3
Nitrobenzene-d5		0.411	0.401	0.399	0.368	0.379	0.384	5.3
Hexachloroethane		0.562	0.543	0.550	0.500	0.506	0.520	6.3
Nitrobenzene		0.423	0.421	0.406	0.390	0.394	0.400	4.6
Isophorone		0.736	0.702	0.692	0.654	0.671	0.680	4.9
2-Nitrophenol		0.175	0.179	0.181	0.175	0.181	0.177	2.0
2,4-Dimethylphenol		0.238	0.236	0.232	0.221	0.227	0.227	3.9
bis(2-Chloroethoxy)methane		0.461	0.442	0.430	0.398	0.404	0.417	6.8
2,4-Dichlorophenol		0.307	0.296	0.287	0.272	0.272	0.281	6.2
1,2,4-Trichlorobenzene		0.346	0.331	0.325	0.298	0.301	0.312	7.1
Benzoic acid		0.162	0.178	0.180	0.215	0.226	0.200	13.0
Naphthalene		1.160	1.105	1.064	0.950	0.955	1.015	9.6
4-Chloroaniline		0.390	0.386	0.370	0.333	0.340	0.353	8.4
Hexachlorobutadiene		0.220	0.214	0.210	0.188	0.190	0.199	7.7
Caprolactam		0.098	0.093	0.094	0.091	0.095	0.093	3.3
4-Chloro-3-methylphenol		0.331	0.327	0.320	0.299	0.304	0.311	5.1
2-Methylnaphthalene		0.751	0.706	0.683	0.610	0.607	0.651	10.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D			RRF005 = BF140333.D		RRF010 = BF140334.D	
		RRF020 = BF140335.D			RRF050 = BF140337.D		RRF060 = BF140338.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Hexachlorocyclopentadiene			0.111	0.143	0.156	0.159	0.142	12.0
2,4,6-Trichlorophenol		0.380	0.374	0.374	0.360	0.352	0.363	3.9
2-Fluorobiphenyl		1.524	1.396	1.351	1.125	1.110	1.244	14.5
2,4,5-Trichlorophenol		0.421	0.417	0.412	0.387	0.390	0.397	5.4
1,1-Biphenyl		1.690	1.571	1.565	1.368	1.343	1.455	10.8
2-Chloronaphthalene		1.279	1.182	1.149	1.064	1.049	1.108	9.2
2-Nitroaniline		0.378	0.365	0.384	0.365	0.366	0.368	2.9
Dimethylphthalate		1.464	1.358	1.371	1.246	1.244	1.304	7.5
Acenaphthylene		1.940	1.802	1.786	1.582	1.552	1.677	10.3
2,6-Dinitrotoluene		0.317	0.303	0.313	0.291	0.289	0.297	5.6
3-Nitroaniline		0.333	0.327	0.335	0.307	0.298	0.312	6.9
Acenaphthene		1.259	1.204	1.192	1.091	1.079	1.133	7.8
2,4-Dinitrophenol			0.109	0.148	0.178	0.170	0.153	16.3
4-Nitrophenol		0.199	0.217	0.239	0.240	0.237	0.228	6.7
Dibenzofuran		1.904	1.736	1.715	1.502	1.466	1.603	11.9
2,4-Dinitrotoluene		0.414	0.400	0.417	0.387	0.382	0.391	5.8
Diethylphthalate		1.525	1.417	1.398	1.272	1.246	1.333	8.8
4-Chlorophenyl-phenylether		0.739	0.688	0.669	0.583	0.567	0.625	12.0
Fluorene		1.525	1.403	1.365	1.168	1.137	1.267	13.1
4-Nitroaniline		0.335	0.325	0.328	0.316	0.313	0.319	3.9
4,6-Dinitro-2-methylphenol		0.080	0.098	0.113	0.117	0.120	0.108	13.0
n-Nitrosodiphenylamine		0.651	0.630	0.600	0.541	0.541	0.578	8.6
Azobenzene		1.498	1.391	1.380	1.251	1.244	1.317	8.6
2,4,6-Tribromophenol		0.220	0.211	0.207	0.191	0.189	0.199	6.9
4-Bromophenyl-phenylether		0.227	0.210	0.209	0.191	0.188	0.200	8.1
Hexachlorobenzene		0.251	0.242	0.232	0.209	0.215	0.225	7.5
Atrazine		0.191	0.183	0.135	0.155	0.205	0.175	17.0
Pentachlorophenol		0.097	0.108	0.124	0.131	0.130	0.121	10.9
Phenanthrene		1.096	1.053	0.986	0.868	0.851	0.940	11.3
Anthracene		1.071	1.018	0.966	0.860	0.839	0.921	10.8
Carbazole		1.053	1.009	0.963	0.846	0.834	0.909	11.0
Di-n-butylphthalate		1.214	1.177	1.150	1.036	1.023	1.091	8.4
Fluoranthene		1.256	1.201	1.141	0.962	0.933	1.054	13.9
Benzidine			0.634	0.684	0.742	0.953	0.768	18.6
Pyrene		1.748	1.706	1.643	1.728	1.800	1.711	3.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D		RRF005 = BF140333.D		RRF010 = BF140334.D		
		RRF020 = BF140335.D		RRF050 = BF140337.D		RRF060 = BF140338.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Terphenyl-d14		1.226	1.185	1.108	1.139	1.190	1.152	4.3
Butylbenzylphthalate		0.640	0.638	0.654	0.670	0.681	0.657	3.6
3,3-Dichlorobenzidine		0.438	0.431	0.433	0.406	0.416	0.418	3.8
Benzo (a) anthracene		1.451	1.418	1.351	1.229	1.294	1.314	7.3
Chrysene		1.394	1.241	1.235	1.137	1.123	1.199	8.4
Bis (2-ethylhexyl) phthalate		0.886	0.890	0.897	0.858	0.869	0.877	4.1
Di-n-octyl phthalate		1.231	1.217	1.270	1.187	1.241	1.235	2.9
Benzo (b) fluoranthene		1.405	1.352	1.471	1.235	1.233	1.308	7.8
Benzo (k) fluoranthene		1.286	1.241	1.120	0.952	0.935	1.069	14.5
Benzo (a) pyrene		1.100	1.053	1.054	0.970	0.980	1.016	5.4
Indeno (1,2,3-cd) pyrene		1.116	1.150	1.138	1.316	1.354	1.235	8.0
Dibenzo (a,h) anthracene		0.941	0.952	0.944	1.074	1.121	1.021	7.3
Benzo (g,h,i) perylene		0.941	0.963	0.954	1.122	1.146	1.044	8.5
1,2,4,5-Tetrachlorobenzene		0.646	0.585	0.583	0.524	0.517	0.553	9.8
1,4-Dioxane		0.582	0.546	0.530	0.495	0.506	0.522	6.5
2,3,4,6-Tetrachlorophenol		0.322	0.328	0.326	0.308	0.302	0.313	4.6
1-Methylnaphthalene		0.734	0.696	0.673	0.589	0.592	0.637	10.4

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.793	0.741		-6.6	
Pyridine	1.476	1.426		-3.4	
2-Fluorophenol	1.278	1.220		-4.5	
Benzaldehyde	0.931	0.910		-2.3	
Aniline	1.542	1.432		-7.1	
Phenol-d6	1.655	1.531		-7.5	
Phenol	1.706	1.580		-7.4	20.0
bis(2-Chloroethyl) ether	1.319	1.223		-7.3	
2-Chlorophenol	1.306	1.244		-4.7	
1,2-Dichlorobenzene	1.398	1.369		-2.1	
1,3-Dichlorobenzene	1.499	1.477		-1.5	
1,4-Dichlorobenzene	1.498	1.482		-1.1	20.0
Benzyl Alcohol	1.214	1.129		-7.0	
2-Methylphenol	1.114	1.029		-7.6	
2,2-oxybis(1-Chloropropane)	2.248	1.911		-15.0	
Acetophenone	0.490	0.475		-3.1	
3+4-Methylphenols	1.424	1.308		-8.1	
n-Nitroso-di-n-propylamine	1.004	0.873	0.050	-13.0	
Nitrobenzene-d5	0.361	0.380		5.3	
Hexachloroethane	0.534	0.520		-2.6	
Nitrobenzene	0.396	0.399		0.8	
Isophorone	0.685	0.645		-5.8	
2-Nitrophenol	0.149	0.164		10.1	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy) methane	0.415	0.393		-5.3	
2,4-Dichlorophenol	0.283	0.279		-1.4	20.0
1,2,4-Trichlorobenzene	0.314	0.319		1.6	
Benzoic acid	0.217	0.211		-2.8	
Naphthalene	1.031	1.028		-0.3	
4-Chloroaniline	0.352	0.343		-2.6	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.307		-2.2	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.191	0.050	1.6	
2,4,6-Trichlorophenol	0.382	0.374		-2.1	20.0
2-Fluorobiphenyl	1.210	1.211		0.1	
2,4,5-Trichlorophenol	0.394	0.414		5.1	
1,1-Biphenyl	1.392	1.391		-0.1	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.121	1.129		0.7	
2-Nitroaniline	0.343	0.375		9.3	
Dimethylphthalate	1.246	1.229		-1.4	
Acenaphthylene	1.621	1.628		0.4	
2,6-Dinitrotoluene	0.270	0.290		7.4	
3-Nitroaniline	0.278	0.298		7.2	
Acenaphthene	1.049	1.058		0.9	20.0
2,4-Dinitrophenol	0.093	0.126	0.050	35.5	
4-Nitrophenol	0.214	0.229	0.050	7.0	
Dibenzofuran	1.505	1.491		-0.9	
2,4-Dinitrotoluene	0.332	0.383		15.4	
Diethylphthalate	1.223	1.181		-3.4	
4-Chlorophenyl-phenylether	0.579	0.581		0.3	
Fluorene	1.146	1.149		0.3	
4-Nitroaniline	0.263	0.289		9.9	
4,6-Dinitro-2-methylphenol	0.082	0.104		26.8	
n-Nitrosodiphenylamine	0.599	0.572		-4.5	20.0
Azobenzene	1.297	1.197		-7.7	
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.202		-1.9	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.156		-3.7	
Pentachlorophenol	0.141	0.152		7.8	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.901		-2.3	
Carbazole	0.857	0.832		-2.9	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.965		1.0	20.0
Benzidine	0.329	0.451		37.1	
Pyrene	1.751	1.811		3.4	
Terphenyl-d14	1.227	1.258		2.5	
Butylbenzylphthalate	0.525	0.551		5.0	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.302	1.311		0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.606		2.9	
Di-n-octyl phthalate	1.071	0.894		-16.5	20.0
Benzo(b)fluoranthene	1.218	1.154		-5.3	
Benzo(k)fluoranthene	1.051	1.063		1.1	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	1.002	1.013		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.303		1.2	
Dibenzo(a,h)anthracene	1.073	1.070		-0.3	
Benzo(g,h,i)perylene	1.072	1.111		3.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.555		2.8	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.315		1.9	
1-Methylnaphthalene	0.620	0.605		-2.4	

All other compounds must meet a minimum RRF of 0.010.

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	PT-DIES-SOIL	SOIL			10/21/24			10/23/24
			Diesel Range Organics	8015D		10/24/24	10/24/24	
			Diesel Range Organics	8015D		10/24/24	10/25/24	
P4495-15	PT-GAS-SOIL	SOIL			10/21/24			10/23/24
			Gasoline Range Organics	8015D			10/24/24	
			Gasoline Range Organics	8015D			10/30/24	
P4495-16	PT-NJEPH-SOIL	Solid			10/21/24			10/23/24
			EPH	NJEPH		10/25/24	10/28/24	
			EPH	NJEPH		10/25/24	10/29/24	
			EPH	NJEPH		10/25/24	10/28/24	
P4495-16DL 2	PT-NJEPH-SOILDL2	Solid			10/21/24			10/23/24
			EPH	NJEPH		10/25/24	10/28/24	
P4495-17	PT-HERB-SOIL	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-17RE	PT-HERB-SOILRE	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-18	PT-PCB-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-18DL	PT-PCB-SOIL DL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-19	PT-PCBO-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/28/24	
P4495-19DL	PT-PCBO-SOILDL	SOIL			10/21/24			10/23/24

LAB CHRONICLE

			PCB	8082A		10/25/24	10/28/24	
P4495-20	PT-PEST-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL 2	PT-PEST-SOILDL2	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	PT-CHLR-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	PT-TXP-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	PT-TXP-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	

Hit Summary Sheet
SW-846

SDG No.: P4495

Order ID: P4495

Client: Chemtech Consulting Group

Project ID: NJ Soil PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-PEST-SOIL								
P4495-20	PT-PEST-SOIL	SOIL	alpha-BHC	219	E	0.18	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	beta-BHC	272	E	0.49	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	delta-BHC	273	E	0.47	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	gamma-BHC (Lindane)	136	E	0.19	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Heptachlor	261	E	0.17	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Aldrin	92.9	E	0.14	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Heptachlor epoxide	86.8	E	0.23	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Endosulfan I	38.7	E	0.17	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Dieldrin	315	E	0.15	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	4,4-DDE	326	E	0.13	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Endrin	43.6	E	0.16	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Endosulfan II	156	E	0.30	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	4,4-DDD	211	E	0.19	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Endosulfan Sulfate	55.1	E	0.13	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	4,4-DDT	106	E	0.17	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Methoxychlor	39.1	E	0.38	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Endrin ketone	171	E	0.22	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	Endrin aldehyde	26.9		0.39	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	alpha-Chlordane	79.7	E	0.17	1.70	ug/kg
P4495-20	PT-PEST-SOIL	SOIL	gamma-Chlordane	237	E	0.19	1.70	ug/kg

Total Concentration: 3,145.800

Client ID : PT-PEST-SOILDL								
P4495-20DL	PT-PEST-SOILDL	SOIL	alpha-BHC	229	ED	0.36	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	beta-BHC	285	ED	0.97	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	delta-BHC	291	ED	0.94	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	gamma-BHC (Lindane)	140	ED	0.38	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Heptachlor	298	ED	0.34	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Aldrin	96.0	ED	0.28	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Heptachlor epoxide	90.6	ED	0.46	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Endosulfan I	39.3	D	0.34	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Dieldrin	342	ED	0.30	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	4,4-DDE	342	ED	0.26	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Endrin	43.3	D	0.32	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Endosulfan II	159	ED	0.60	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	4,4-DDD	217	ED	0.38	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Endosulfan Sulfate	55.0	D	0.26	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	4,4-DDT	104	ED	0.34	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Methoxychlor	41.6	D	0.76	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	Endrin ketone	178	ED	0.44	3.40	ug/kg

Hit Summary Sheet
SW-846

SDG No.: P4495

Order ID: P4495

Client: Chemtech Consulting Group

Project ID: NJ Soil PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4495-20DL	PT-PEST-SOILDL	SOIL	Endrin aldehyde	26.9	D	0.78	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	alpha-Chlordane	79.9	ED	0.34	3.40	ug/kg
P4495-20DL	PT-PEST-SOILDL	SOIL	gamma-Chlordane	246	ED	0.38	3.40	ug/kg
Total Concentration:				3,303.600				

Client ID : PT-PEST-SOILDL2

P4495-20DL2	PT-PEST-SOILDL2	SOIL	alpha-BHC	217	D	3.60	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	beta-BHC	305	D	9.70	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	delta-BHC	291	D	9.40	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	gamma-BHC (Lindane)	132	D	3.80	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Heptachlor	317	D	3.40	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Aldrin	96.0	D	2.80	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Heptachlor epoxide	99.5	D	4.60	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Endosulfan I	44.9	D	3.40	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Dieldrin	362	D	3.00	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	4,4-DDE	351	D	2.60	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Endrin	44.8	D	3.20	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Endosulfan II	165	D	6.00	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	4,4-DDD	215	D	3.80	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Endosulfan Sulfate	63.5	D	2.60	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	4,4-DDT	98.8	D	3.40	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Methoxychlor	48.5	D	7.60	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Endrin ketone	194	D	4.40	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	Endrin aldehyde	31.9	JD	7.80	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	alpha-Chlordane	84.2	D	3.40	33.8	ug/kg
P4495-20DL2	PT-PEST-SOILDL2	SOIL	gamma-Chlordane	247	D	3.80	33.8	ug/kg
Total Concentration:				3,408.100				



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PEST-SOIL		SDG No.:	P4495	
Lab Sample ID:	P4495-20		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.16	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092818.D	1	10/25/24 09:40	11/04/24 11:12	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	219	E	0.18	1.70	ug/kg
319-85-7	beta-BHC	272	E	0.49	1.70	ug/kg
319-86-8	delta-BHC	273	E	0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	136	E	0.19	1.70	ug/kg
76-44-8	Heptachlor	261	E	0.17	1.70	ug/kg
309-00-2	Aldrin	92.9	E	0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	86.8	E	0.23	1.70	ug/kg
959-98-8	Endosulfan I	38.7	E	0.17	1.70	ug/kg
60-57-1	Dieldrin	315	E	0.15	1.70	ug/kg
72-55-9	4,4-DDE	326	E	0.13	1.70	ug/kg
72-20-8	Endrin	43.6	E	0.16	1.70	ug/kg
33213-65-9	Endosulfan II	156	E	0.30	1.70	ug/kg
72-54-8	4,4-DDD	211	E	0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	55.1	E	0.13	1.70	ug/kg
50-29-3	4,4-DDT	106	E	0.17	1.70	ug/kg
72-43-5	Methoxychlor	39.1	E	0.38	1.70	ug/kg
53494-70-5	Endrin ketone	171	E	0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	26.9		0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	79.7	E	0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	237	E	0.19	1.70	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.2		10 - 148	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.3		10 - 159	111%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PEST-SOIL		SDG No.:	P4495	
Lab Sample ID:	P4495-20		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.16	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092818.D	1	10/25/24 09:40	11/04/24 11:12	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PEST-SOILDL		SDG No.:	P4495	
Lab Sample ID:	P4495-20DL		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.16	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092819.D	2	10/25/24 09:40	11/04/24 11:26	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	229	ED	0.36	3.40	ug/kg
319-85-7	beta-BHC	285	ED	0.97	3.40	ug/kg
319-86-8	delta-BHC	291	ED	0.94	3.40	ug/kg
58-89-9	gamma-BHC (Lindane)	140	ED	0.38	3.40	ug/kg
76-44-8	Heptachlor	298	ED	0.34	3.40	ug/kg
309-00-2	Aldrin	96.0	ED	0.28	3.40	ug/kg
1024-57-3	Heptachlor epoxide	90.6	ED	0.46	3.40	ug/kg
959-98-8	Endosulfan I	39.3	D	0.34	3.40	ug/kg
60-57-1	Dieldrin	342	ED	0.30	3.40	ug/kg
72-55-9	4,4-DDE	342	ED	0.26	3.40	ug/kg
72-20-8	Endrin	43.3	D	0.32	3.40	ug/kg
33213-65-9	Endosulfan II	159	ED	0.60	3.40	ug/kg
72-54-8	4,4-DDD	217	ED	0.38	3.40	ug/kg
1031-07-8	Endosulfan Sulfate	55.0	D	0.26	3.40	ug/kg
50-29-3	4,4-DDT	104	ED	0.34	3.40	ug/kg
72-43-5	Methoxychlor	41.6	D	0.76	3.40	ug/kg
53494-70-5	Endrin ketone	178	ED	0.44	3.40	ug/kg
7421-93-4	Endrin aldehyde	26.9	D	0.78	3.40	ug/kg
5103-71-9	alpha-Chlordane	79.9	ED	0.34	3.40	ug/kg
5103-74-2	gamma-Chlordane	246	ED	0.38	3.40	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.4		10 - 148	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.9		10 - 159	120%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PEST-SOILDL		SDG No.:	P4495	
Lab Sample ID:	P4495-20DL		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.16	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092819.D	2	10/25/24 09:40	11/04/24 11:26	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-PEST-SOILDL2	SDG No.:	P4495
Lab Sample ID:	P4495-20DL2	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100
Sample Wt/Vol:	30.16 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	PESTICIDE Group1
GPC Factor :	1.0	Injection Volume :	
PH :			
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092820.D	20	10/25/24 09:40	11/04/24 11:39	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	217	D	3.60	33.8	ug/kg
319-85-7	beta-BHC	305	D	9.70	33.8	ug/kg
319-86-8	delta-BHC	291	D	9.40	33.8	ug/kg
58-89-9	gamma-BHC (Lindane)	132	D	3.80	33.8	ug/kg
76-44-8	Heptachlor	317	D	3.40	33.8	ug/kg
309-00-2	Aldrin	96.0	D	2.80	33.8	ug/kg
1024-57-3	Heptachlor epoxide	99.5	D	4.60	33.8	ug/kg
959-98-8	Endosulfan I	44.9	D	3.40	33.8	ug/kg
60-57-1	Dieldrin	362	D	3.00	33.8	ug/kg
72-55-9	4,4-DDE	351	D	2.60	33.8	ug/kg
72-20-8	Endrin	44.8	D	3.20	33.8	ug/kg
33213-65-9	Endosulfan II	165	D	6.00	33.8	ug/kg
72-54-8	4,4-DDD	215	D	3.80	33.8	ug/kg
1031-07-8	Endosulfan Sulfate	63.5	D	2.60	33.8	ug/kg
50-29-3	4,4-DDT	98.8	D	3.40	33.8	ug/kg
72-43-5	Methoxychlor	48.5	D	7.60	33.8	ug/kg
53494-70-5	Endrin ketone	194	D	4.40	33.8	ug/kg
7421-93-4	Endrin aldehyde	31.9	JD	7.80	33.8	ug/kg
5103-71-9	alpha-Chlordane	84.2	D	3.40	33.8	ug/kg
5103-74-2	gamma-Chlordane	247	D	3.80	33.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		10 - 148	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	27.2		10 - 159	136%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PEST-SOILDL2		SDG No.:	P4495	
Lab Sample ID:	P4495-20DL2		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.16	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092820.D	20	10/25/24 09:40	11/04/24 11:39	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



QC SUMMARY

Surrogate Summary

SDG No.: **P4495**

Client: **Chemtech Consulting Group**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PL092494.D	PIBLK-PL092494.D	Decachlorobiphenyl	1	20	21.5	107		43	140
		Tetrachloro-m-xylene	1	20	22.0	110		77	126
		Decachlorobiphenyl	2	20	21.4	107		43	140
		Tetrachloro-m-xylene	2	20	20.0	100		77	126
I.BLK-PL092637.D	PIBLK-PL092637.D	Decachlorobiphenyl	1	20	22.1	110		43	140
		Tetrachloro-m-xylene	1	20	19.9	100		77	126
		Decachlorobiphenyl	2	20	24.4	122		43	140
		Tetrachloro-m-xylene	2	20	21.6	108		77	126
PB164398BL	PB164398BL	Decachlorobiphenyl	1	20	19.4	97		10	148
		Tetrachloro-m-xylene	1	20	17.1	85		10	159
		Decachlorobiphenyl	2	20	21.1	106		10	148
		Tetrachloro-m-xylene	2	20	17.7	89		10	159
PB164398BS	PB164398BS	Decachlorobiphenyl	1	20	18.1	90		10	148
		Tetrachloro-m-xylene	1	20	16.2	81		10	159
		Decachlorobiphenyl	2	20	19.5	97		10	148
		Tetrachloro-m-xylene	2	20	16.8	84		10	159
P4547-05MS	BP-F-20MS	Decachlorobiphenyl	1	20	15.7	78		10	148
		Tetrachloro-m-xylene	1	20	15.2	76		10	159
		Decachlorobiphenyl	2	20	14.4	72		10	148
		Tetrachloro-m-xylene	2	20	16.0	80		10	159
P4547-05MSD	BP-F-20MSD	Decachlorobiphenyl	1	20	15.3	76		10	148
		Tetrachloro-m-xylene	1	20	14.6	73		10	159
		Decachlorobiphenyl	2	20	15.1	75		10	148
		Tetrachloro-m-xylene	2	20	15.9	79		10	159
I.BLK-PL092649.D	PIBLK-PL092649.D	Decachlorobiphenyl	1	20	21.2	106		43	140
		Tetrachloro-m-xylene	1	20	20.0	100		77	126
		Decachlorobiphenyl	2	20	22.2	111		43	140
		Tetrachloro-m-xylene	2	20	21.4	107		77	126
I.BLK-PL092652.D	PIBLK-PL092652.D	Decachlorobiphenyl	1	20	22.7	114		43	140
		Tetrachloro-m-xylene	1	20	21.6	108		77	126
		Decachlorobiphenyl	2	20	21.7	109		43	140
		Tetrachloro-m-xylene	2	20	20.4	102		77	126
I.BLK-PL092815.D	PIBLK-PL092815.D	Decachlorobiphenyl	1	20	18.7	94		43	140
		Tetrachloro-m-xylene	1	20	18.6	93		77	126
		Decachlorobiphenyl	2	20	17.3	87		43	140
		Tetrachloro-m-xylene	2	20	18.1	90		77	126
P4495-20	PT-PEST-SOIL	Decachlorobiphenyl	1	20	18.5	92		10	148
		Tetrachloro-m-xylene	1	20	22.3	111		10	159
		Decachlorobiphenyl	2	20	19.2	96		10	148
		Tetrachloro-m-xylene	2	20	19.4	97		10	159
P4495-20DL	PT-PEST-SOILDL	Decachlorobiphenyl	1	20	19.2	96		10	148

Surrogate Summary

SDG No.: **P4495**

Client: **Chemtech Consulting Group**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
P4495-20DL	PT-PEST-SOILDL	Tetrachloro-m-xylene	1	20	23.9	120		10	159
		Decachlorobiphenyl	2	20	19.4	97		10	148
		Tetrachloro-m-xylene	2	20	20.0	100		10	159
P4495-20DL2	PT-PEST-SOILDL2	Decachlorobiphenyl	1	20	21.2	106		10	148
		Tetrachloro-m-xylene	1	20	27.2	136		10	159
		Decachlorobiphenyl	2	20	21.0	105		10	148
		Tetrachloro-m-xylene	2	20	22.4	112		10	159
		Decachlorobiphenyl	1	20	18.9	94		43	140
I.BLK-PL092838.D	PIBLK-PL092838.D	Tetrachloro-m-xylene	1	20	18.6	93		77	126
		Decachlorobiphenyl	2	20	18.2	91		43	140
		Tetrachloro-m-xylene	2	20	18.5	93		77	126
		Decachlorobiphenyl	1	20	18.9	94		43	140

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8081B

DataFile : PL092647.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: P4547-05MS	BP-F-20MS											
	alpha-BHC	19.21	0	17.3	ug/kg	90				60	144	
	beta-BHC	19.21	0	17.7	ug/kg	92				54	143	
	delta-BHC	19.21	0	16.4	ug/kg	85				47	144	
	gamma-BHC (Lindane)	19.21	0	17.1	ug/kg	89				61	140	
	Heptachlor	19.21	0	17.8	ug/kg	93				63	135	
	Aldrin	19.21	0	16.6	ug/kg	86				49	139	
	Heptachlor epoxide	19.21	0	17.1	ug/kg	89				32	180	
	Endosulfan I	19.21	0	17.9	ug/kg	93				56	142	
	Dieldrin	19.21	0	16.6	ug/kg	86				47	161	
	4,4'-DDE	19.21	0	17.4	ug/kg	91				55	136	
	Endrin	19.21	0	16.1	ug/kg	84				57	139	
	Endosulfan II	19.21	0	16.3	ug/kg	85				40	163	
	4,4'-DDD	19.21	0	16.2	ug/kg	84				37	192	
	Endosulfan sulfate	19.21	0	16.0	ug/kg	83				62	139	
	4,4'-DDT	19.21	0	16.2	ug/kg	84				51	146	
	Methoxychlor	19.21	0	16.9	ug/kg	88				54	136	
	Endrin ketone	19.21	0	16.6	ug/kg	86				60	129	
	Endrin aldehyde	19.21	0	16.1	ug/kg	84				59	132	
	alpha-Chlordane	19.21	0	17.7	ug/kg	92				30	192	
	gamma-Chlordane	19.21	0	17.2	ug/kg	90				44	175	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8081B

DataFile : PL092648.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	BP-F-20MSD											
P4547-05MSD	alpha-BHC	19.2	0	17.3	ug/kg	90		0		60	144	20
	beta-BHC	19.2	0	17.9	ug/kg	93		1		54	143	20
	delta-BHC	19.2	0	16.6	ug/kg	86		1		47	144	20
	gamma-BHC (Lindane)	19.2	0	17.2	ug/kg	90		1		61	140	20
	Heptachlor	19.2	0	18.0	ug/kg	94		1		63	135	20
	Aldrin	19.2	0	16.8	ug/kg	87		1		49	139	20
	Heptachlor epoxide	19.2	0	17.4	ug/kg	91		2		32	180	20
	Endosulfan I	19.2	0	17.9	ug/kg	93		0		56	142	20
	Dieldrin	19.2	0	17.1	ug/kg	89		3		47	161	20
	4,4'-DDE	19.2	0	17.6	ug/kg	92		1		55	136	20
	Endrin	19.2	0	17.2	ug/kg	90		7		57	139	20
	Endosulfan II	19.2	0	16.8	ug/kg	87		2		40	163	20
	4,4'-DDD	19.2	0	17.0	ug/kg	89		6		37	192	20
	Endosulfan sulfate	19.2	0	16.7	ug/kg	87		5		62	139	20
	4,4'-DDT	19.2	0	16.6	ug/kg	86		2		51	146	20
	Methoxychlor	19.2	0	18.0	ug/kg	94		7		54	136	20
	Endrin ketone	19.2	0	16.8	ug/kg	87		1		60	129	20
	Endrin aldehyde	19.2	0	16.1	ug/kg	84		0		59	132	20
	alpha-Chlordane	19.2	0	17.4	ug/kg	91		1		30	192	20
	gamma-Chlordane	19.2	0	17.2	ug/kg	90		0		44	175	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: **8081B** Datafile : PL092641.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164398BS	alpha-BHC	16.66	16.2	ug/kg	97				84	123	
	beta-BHC	16.66	16.7	ug/kg	100				82	123	
	delta-BHC	16.66	16.2	ug/kg	97				83	126	
	gamma-BHC (Lindane)	16.66	16.4	ug/kg	98				83	125	
	Heptachlor	16.66	16.7	ug/kg	100				83	122	
	Aldrin	16.66	16.3	ug/kg	98				82	124	
	Heptachlor epoxide	16.66	17.0	ug/kg	102				83	120	
	Endosulfan I	16.66	17.2	ug/kg	103				81	124	
	Dieldrin	16.66	16.4	ug/kg	98				85	121	
	4,4'-DDE	16.66	16.8	ug/kg	101				81	123	
	Endrin	16.66	16.1	ug/kg	97				76	130	
	Endosulfan II	16.66	16.3	ug/kg	98				80	125	
	4,4'-DDD	16.66	16.6	ug/kg	100				80	131	
	Endosulfan sulfate	16.66	16.3	ug/kg	98				81	122	
	4,4'-DDT	16.66	16.1	ug/kg	97				70	129	
	Methoxychlor	16.66	17.8	ug/kg	107				60	119	
	Endrin ketone	16.66	17.2	ug/kg	103				77	132	
	Endrin aldehyde	16.66	16.6	ug/kg	100				79	124	
	alpha-Chlordane	16.66	16.7	ug/kg	100				84	120	
	gamma-Chlordane	16.66	16.4	ug/kg	98				83	122	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164398BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: PB164398BL

Lab File ID: PL092640.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 10/25/2024

Date Analyzed (1): 10/25/2024

Date Analyzed (2): 10/25/2024

Time Analyzed (1): 16:46

Time Analyzed (2): 16:46

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm)

GC Column (2): ZB-MR1 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
PB164398BS	PB164398BS	PL092641.D	10/25/2024	10/25/2024
BP-F-20MS	P4547-05MS	PL092647.D	10/25/2024	10/25/2024
BP-F-20MSD	P4547-05MSD	PL092648.D	10/25/2024	10/25/2024
PT-PEST-SOIL	P4495-20	PL092818.D	11/04/2024	11/04/2024

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164398BL		SDG No.:	P4495	
Lab Sample ID:	PB164398BL		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092640.D	1	10/25/24 09:40	10/25/24 16:46	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.18	U	0.18	1.70	ug/kg
319-85-7	beta-BHC	0.49	U	0.49	1.70	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	1.70	ug/kg
76-44-8	Heptachlor	0.17	U	0.17	1.70	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	1.70	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	1.70	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	0.13	U	0.13	1.70	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.70	ug/kg
33213-65-9	Endosulfan II	0.30	U	0.30	1.70	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	1.70	ug/kg
72-43-5	Methoxychlor	0.38	U	0.38	1.70	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.39	U	0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.17	U	0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.19	U	0.19	1.70	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.1		10 - 148	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		10 - 159	89%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164398BL		SDG No.:	P4495	
Lab Sample ID:	PB164398BL		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092640.D	1	10/25/24 09:40	10/25/24 16:46	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/21/24	
Client Sample ID:	PIBLK-PL092494.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092494.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092494.D	1		10/21/24	PL102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.5		43 - 140	107%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		77 - 126	110%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/21/24	
Client Sample ID:	PIBLK-PL092494.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092494.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092494.D	1		10/21/24	PL102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/25/24	
Project:	NJ Soil PT		Date Received:	10/25/24	
Client Sample ID:	PIBLK-PL092637.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092637.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092637.D	1		10/25/24	PL102624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.4		43 - 140	122%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		77 - 126	108%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/25/24	
Project:	NJ Soil PT		Date Received:	10/25/24	
Client Sample ID:	PIBLK-PL092637.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092637.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092637.D	1		10/25/24	PL102624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/25/24	
Project:	NJ Soil PT		Date Received:	10/25/24	
Client Sample ID:	PIBLK-PL092649.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092649.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092649.D	1		10/25/24	PL102624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.2		43 - 140	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.4		77 - 126	107%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/25/24	
Project:	NJ Soil PT		Date Received:	10/25/24	
Client Sample ID:	PIBLK-PL092649.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092649.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092649.D	1		10/25/24	PL102624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/28/24	
Project:	NJ Soil PT		Date Received:	10/28/24	
Client Sample ID:	PIBLK-PL092652.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092652.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		43 - 140	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		77 - 126	108%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/28/24	
Project:	NJ Soil PT		Date Received:	10/28/24	
Client Sample ID:	PIBLK-PL092652.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092652.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/04/24	
Project:	NJ Soil PT		Date Received:	11/04/24	
Client Sample ID:	PIBLK-PL092815.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092815.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092815.D	1		11/04/24	PL110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.7		43 - 140	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.6		77 - 126	93%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/04/24	
Project:	NJ Soil PT		Date Received:	11/04/24	
Client Sample ID:	PIBLK-PL092815.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092815.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092815.D	1		11/04/24	PL110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/04/24	
Project:	NJ Soil PT		Date Received:	11/04/24	
Client Sample ID:	PIBLK-PL092838.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092838.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092838.D	1		11/04/24	PL110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.9		43 - 140	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.6		77 - 126	93%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/04/24	
Project:	NJ Soil PT		Date Received:	11/04/24	
Client Sample ID:	PIBLK-PL092838.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PL092838.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092838.D	1		11/04/24	PL110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164398BS		SDG No.:	P4495	
Lab Sample ID:	PB164398BS		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092641.D	1	10/25/24 09:40	10/25/24 16:59	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.2		0.18	1.70	ug/kg
319-85-7	beta-BHC	16.7		0.49	1.70	ug/kg
319-86-8	delta-BHC	16.2		0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.4		0.19	1.70	ug/kg
76-44-8	Heptachlor	16.7		0.17	1.70	ug/kg
309-00-2	Aldrin	16.3		0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	17.0		0.23	1.70	ug/kg
959-98-8	Endosulfan I	17.2		0.17	1.70	ug/kg
60-57-1	Dieldrin	16.4		0.15	1.70	ug/kg
72-55-9	4,4-DDE	16.8		0.13	1.70	ug/kg
72-20-8	Endrin	16.1		0.16	1.70	ug/kg
33213-65-9	Endosulfan II	16.3		0.30	1.70	ug/kg
72-54-8	4,4-DDD	16.6		0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	16.3		0.13	1.70	ug/kg
50-29-3	4,4-DDT	16.1		0.17	1.70	ug/kg
72-43-5	Methoxychlor	17.8		0.38	1.70	ug/kg
53494-70-5	Endrin ketone	17.2		0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	16.6		0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	16.7		0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	16.4		0.19	1.70	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.5		10 - 148	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.8		10 - 159	84%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164398BS		SDG No.:	P4495
Lab Sample ID:	PB164398BS		Matrix:	SOIL
Analytical Method:	SW8081		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	Decanted:	
Soil Aliquot Vol:		uL	Final Vol:	10000 uL
Extraction Type:			Test:	PESTICIDE Group1
GPC Factor :	1.0	PH :	Injection Volume :	
Prep Method :	SW3541B			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092641.D	1	10/25/24 09:40	10/25/24 16:59	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/24/24	
Project:	NJ Soil PT		Date Received:	10/24/24	
Client Sample ID:	BP-F-20MS		SDG No.:	P4495	
Lab Sample ID:	P4547-05MS		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	86.6	Decanted:
Sample Wt/Vol:	30.05	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092647.D	1	10/25/24 09:40	10/25/24 18:42	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.3		0.21	2.00	ug/kg
319-85-7	beta-BHC	17.7		0.56	2.00	ug/kg
319-86-8	delta-BHC	16.4		0.54	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	17.1		0.22	2.00	ug/kg
76-44-8	Heptachlor	17.8		0.20	2.00	ug/kg
309-00-2	Aldrin	16.6		0.16	2.00	ug/kg
1024-57-3	Heptachlor epoxide	17.1		0.27	2.00	ug/kg
959-98-8	Endosulfan I	17.9		0.20	2.00	ug/kg
60-57-1	Dieldrin	16.6		0.17	2.00	ug/kg
72-55-9	4,4-DDE	17.4		0.15	2.00	ug/kg
72-20-8	Endrin	16.1		0.18	2.00	ug/kg
33213-65-9	Endosulfan II	16.3		0.35	2.00	ug/kg
72-54-8	4,4-DDD	16.2		0.22	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	16.0		0.15	2.00	ug/kg
50-29-3	4,4-DDT	16.2		0.20	2.00	ug/kg
72-43-5	Methoxychlor	16.9		0.44	2.00	ug/kg
53494-70-5	Endrin ketone	16.6		0.25	2.00	ug/kg
7421-93-4	Endrin aldehyde	16.1		0.45	2.00	ug/kg
5103-71-9	alpha-Chlordane	17.7		0.20	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.2		0.22	2.00	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.7		10 - 148	78%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.0		10 - 159	80%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/24/24	
Project:	NJ Soil PT		Date Received:	10/24/24	
Client Sample ID:	BP-F-20MS		SDG No.:	P4495	
Lab Sample ID:	P4547-05MS		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	86.6	Decanted:
Sample Wt/Vol:	30.05	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092647.D	1	10/25/24 09:40	10/25/24 18:42	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/24/24	
Project:	NJ Soil PT		Date Received:	10/24/24	
Client Sample ID:	BP-F-20MSD		SDG No.:	P4495	
Lab Sample ID:	P4547-05MSD		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	86.6	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092648.D	1	10/25/24 09:40	10/25/24 18:56	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.3		0.21	2.00	ug/kg
319-85-7	beta-BHC	17.9		0.56	2.00	ug/kg
319-86-8	delta-BHC	16.6		0.54	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	17.2		0.22	2.00	ug/kg
76-44-8	Heptachlor	18.0		0.20	2.00	ug/kg
309-00-2	Aldrin	16.8		0.16	2.00	ug/kg
1024-57-3	Heptachlor epoxide	17.4		0.27	2.00	ug/kg
959-98-8	Endosulfan I	17.9		0.20	2.00	ug/kg
60-57-1	Dieldrin	17.1		0.17	2.00	ug/kg
72-55-9	4,4-DDE	17.6		0.15	2.00	ug/kg
72-20-8	Endrin	17.2		0.18	2.00	ug/kg
33213-65-9	Endosulfan II	16.8		0.35	2.00	ug/kg
72-54-8	4,4-DDD	17.0		0.22	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	16.7		0.15	2.00	ug/kg
50-29-3	4,4-DDT	16.6		0.20	2.00	ug/kg
72-43-5	Methoxychlor	18.0		0.44	2.00	ug/kg
53494-70-5	Endrin ketone	16.8		0.25	2.00	ug/kg
7421-93-4	Endrin aldehyde	16.1		0.45	2.00	ug/kg
5103-71-9	alpha-Chlordane	17.4		0.20	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.2		0.22	2.00	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.3		10 - 148	76%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.9		10 - 159	79%	SPK: 20

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/24/24	
Project:	NJ Soil PT		Date Received:	10/24/24	
Client Sample ID:	BP-F-20MSD		SDG No.:	P4495	
Lab Sample ID:	P4547-05MSD		Matrix:	SOIL	
Analytical Method:	SW8081		% Solid:	86.6	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092648.D	1	10/25/24 09:40	10/25/24 18:56	PB164398

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

A
B
C
D
E
F
G
H

Calibration Times: 13:00 13:53

LAB FILE ID:	RT 100 =	<u>PL092497.D</u>	RT 075 =	<u>PL092498.D</u>
	RT 050 =	PL092499.D	RT 025 =	PL092500.D
			RT 005 =	PL092501.D

[illegible]

A
B
C
D
E
F
G
H

Calibration Times: 13:00 13:53

LAB FILE ID: RT 100 = PL092497.D RT 075 = PL092498.D
RT 050 = PL092499.D RT 025 = PL092500.D RT 005 = PL092501.D

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

Instrument ID: ECD_L **Calibration Date(s):** 10/21/2024 10/21/2024
Calibration Times: 13:00 13:53

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

LAB FILE ID:		CF 100 = <u>PL092497.D</u>		CF 075 = <u>PL092498.D</u>			
CF 050 = <u>PL092499.D</u>		CF 025 = <u>PL092500.D</u>		CF 005 = <u>PL092501.D</u>			
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2246400000	2258620000	2360420000	2437540000	2776830000	2415960000	9
4,4'-DDE	2768040000	2811970000	2906870000	3034090000	3308610000	2965920000	7
4,4'-DDT	2351780000	2354700000	2458670000	2510620000	2654500000	2466050000	5
Aldrin	3357570000	3399600000	3527390000	3705500000	4403230000	3678660000	12
alpha-BHC	3880960000	3900500000	3985440000	4129150000	4710150000	4121240000	8
alpha-Chlordane	2934020000	3004180000	3127580000	3292340000	3923880000	3256400000	12
beta-BHC	1472550000	1485480000	1520550000	1582420000	1700650000	1552330000	6
Decachlorobiphenyl	1893630000	1911900000	1968460000	2071700000	2310050000	2031150000	8
delta-BHC	3526460000	3537730000	3645230000	3889220000	4211510000	3762030000	8
Dieldrin	2994540000	3035510000	3143820000	3281370000	3804200000	3251890000	10
Endosulfan I	2758780000	2810500000	2913200000	3062020000	3552420000	3019390000	11
Endosulfan II	2571530000	2607370000	2748580000	2960640000	3260790000	2829780000	10
Endosulfan sulfate	2304480000	2335740000	2443850000	2546180000	3002960000	2526640000	11
Endrin	2580620000	2625010000	2734790000	2924540000	3253750000	2823740000	10
Endrin aldehyde	1982870000	2003830000	2098670000	2187760000	2407240000	2136080000	8
Endrin ketone	2572770000	2595940000	2703400000	2798310000	3078670000	2749820000	7
gamma-BHC (Lindane)	3651940000	3672710000	3751070000	3836830000	4321280000	3846770000	7
gamma-Chlordane	2975150000	3046540000	3165110000	3319740000	3978350000	3296980000	12
Heptachlor	3266860000	3307900000	3429100000	3569740000	4155000000	3545720000	10
Heptachlor epoxide	3004670000	3040630000	3248410000	3443240000	3866730000	3320740000	11
Methoxychlor	1148350000	1158380000	1214430000	1185540000	1181850000	1177710000	2
Tetrachloro-m-xylene	2537390000	2552890000	2586960000	2724730000	3067200000	2693840000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

Instrument ID: ECD_L **Calibration Date(s):** 10/21/2024 10/21/2024
Calibration Times: 13:00 13:53

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

LAB FILE ID:		CF 100 =	PL092497.D	CF 075 =	PL092498.D		
CF 050 =	PL092499.D	CF 025 =	PL092500.D	CF 005 =	PL092501.D		
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2693820000	2711750000	2763570000	2774490000	2947510000	2778230000	4
4,4'-DDE	3365970000	3350290000	3424050000	3426470000	3819900000	3477340000	6
4,4'-DDT	2876310000	2862890000	2900910000	2875360000	3169270000	2936950000	4
Aldrin	3902880000	3867350000	3920990000	3908110000	4278130000	3975490000	4
alpha-BHC	4282080000	4249760000	4259610000	4206610000	4577410000	4315100000	3
alpha-Chlordane	3453960000	3467250000	3481480000	3550810000	3816750000	3554050000	4
beta-BHC	1637290000	1631380000	1679350000	1708600000	2073140000	1745950000	11
Decachlorobiphenyl	2533020000	2508980000	2598990000	2640650000	2893220000	2634970000	6
delta-BHC	4115860000	4070010000	4108760000	4122660000	4613930000	4206240000	5
Dieldrin	3524630000	3511910000	3576190000	3612640000	4046390000	3654350000	6
Endosulfan I	3116470000	3138120000	3163890000	3197670000	3298980000	3183030000	2
Endosulfan II	2909510000	2958770000	3049780000	3070330000	3642720000	3126220000	9
Endosulfan sulfate	2760410000	2764670000	2816810000	2859720000	3579720000	2956270000	12
Endrin	3096230000	3113840000	3236910000	3364340000	3563230000	3274910000	6
Endrin aldehyde	2316790000	2330610000	2385350000	2437260000	2812750000	2456550000	8
Endrin ketone	3125230000	3132330000	3203190000	3221610000	3378350000	3212140000	3
gamma-BHC (Lindane)	4098710000	4055410000	4107080000	4122620000	4206290000	4118020000	1
gamma-Chlordane	3544140000	3552270000	3600750000	3641630000	4057250000	3679210000	6
Heptachlor	3908940000	3891170000	3959270000	3983440000	4335990000	4015760000	5
Heptachlor epoxide	3409250000	3412120000	3473550000	3502030000	3820750000	3523540000	5
Methoxychlor	1383990000	1380180000	1398790000	1408970000	1517400000	1417870000	4
Tetrachloro-m-xylene	2710240000	2704020000	2735270000	2751220000	2986460000	2777440000	4

A
B
C
D
E
F
G
H

Calibration Times: 14:43 15:36

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D
RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

[illegible]

A
B
C
D
E
F
G
H

Calibration Times: 14:43 15:36

LAB FILE ID:	RT 100 =	<u>PL092655.D</u>	RT 075 =	<u>PL092656.D</u>
	RT 050 =	PL092657.D	RT 025 =	PL092658.D
			RT 005 =	PL092659.D

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024
Calibration Times: 14:43 15:36

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

LAB FILE ID:		CF 100 = <u>PL092655.D</u>		CF 075 = <u>PL092656.D</u>			
CF 050 = <u>PL092657.D</u>		CF 025 = <u>PL092658.D</u>		CF 005 = <u>PL092659.D</u>			
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1810270000	1801980000	1817980000	1967770000	2199620000	1919520000	9
4,4'-DDE	2254070000	2226390000	2230050000	2402470000	2732960000	2369190000	9
4,4'-DDT	1948940000	1933390000	1940720000	2113460000	2412250000	2069750000	10
Aldrin	2847480000	2802990000	2807290000	3047230000	3502400000	3001480000	10
alpha-BHC	3356530000	3271880000	3230400000	3397090000	3701950000	3391570000	5
alpha-Chlordane	2486640000	2469090000	2489960000	2701720000	3093310000	2648140000	10
beta-BHC	1343260000	1339050000	1368530000	1491800000	1684660000	1445460000	10
Decachlorobiphenyl	1738840000	1756630000	1819720000	1998760000	2308800000	1924550000	12
delta-BHC	3067660000	2980040000	2949010000	3119670000	3533000000	3129870000	8
Dieldrin	2486930000	2456960000	2476030000	2679410000	3078050000	2635480000	10
Endosulfan I	2320690000	2313950000	2348370000	2546170000	2977620000	2501360000	11
Endosulfan II	2159880000	2160930000	2205230000	2449960000	2943170000	2383830000	14
Endosulfan sulfate	1974140000	1979440000	2024740000	2239840000	2633550000	2170340000	13
Endrin	2111540000	2103000000	2121260000	2324460000	2723040000	2276660000	12
Endrin aldehyde	1712300000	1718280000	1758160000	1955910000	2245210000	1877970000	12
Endrin ketone	2253830000	2246660000	2273910000	2471090000	2868570000	2422810000	11
gamma-BHC (Lindane)	3198960000	3133030000	3104430000	3278360000	3583040000	3259560000	6
gamma-Chlordane	2496700000	2477960000	2491940000	2703470000	3133120000	2660640000	11
Heptachlor	2817300000	2795570000	2829220000	3064000000	3509480000	3003110000	10
Heptachlor epoxide	2536240000	2521530000	2566410000	2821600000	3361270000	2761410000	13
Methoxychlor	1040530000	1050870000	1078280000	1189160000	1341160000	1140000000	11
Tetrachloro-m-xylene	2319350000	2304070000	2328420000	2512350000	2786990000	2450240000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024
Calibration Times: 14:43 15:36

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

LAB FILE ID:		CF 100 =	PL092655.D	CF 075 =	PL092656.D		
CF 050 =		PL092657.D	CF 025 =	PL092658.D	CF 005 =	PL092659.D	
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2614880000	2506250000	2443430000	2489210000	2396540000	2490060000	3
4,4'-DDE	3334990000	3225880000	3154950000	3209960000	3182260000	3221610000	2
4,4'-DDT	2797500000	2713050000	2637310000	2653690000	2609750000	2682260000	3
Aldrin	3840860000	3705070000	3619180000	3619340000	3516600000	3660210000	3
alpha-BHC	4282500000	4089170000	3973860000	3934480000	3670850000	3990170000	6
alpha-Chlordane	3409310000	3303380000	3254510000	3329310000	3333630000	3326030000	2
beta-BHC	1625150000	1594840000	1591160000	1661990000	1758110000	1646250000	4
Decachlorobiphenyl	2606810000	2575500000	2605540000	2793460000	3064890000	2729240000	8
delta-BHC	4088000000	3924730000	3802680000	3782230000	3618150000	3843150000	5
Dieldrin	3483370000	3364390000	3290100000	3303460000	3260200000	3340300000	3
Endosulfan I	3111480000	3032780000	2993580000	3072340000	3055530000	3053140000	1
Endosulfan II	2881520000	2813750000	2779930000	2861240000	2829950000	2833280000	1
Endosulfan sulfate	2707530000	2646200000	2623690000	2712350000	2794620000	2696880000	2
Endrin	2969490000	2878380000	2828080000	2876210000	2912860000	2893010000	2
Endrin aldehyde	2273700000	2244250000	2230130000	2333460000	2454860000	2307280000	4
Endrin ketone	3089790000	3023040000	3013060000	3097240000	3120850000	3068800000	2
gamma-BHC (Lindane)	4083950000	3934430000	3833920000	3828430000	3616530000	3859450000	4
gamma-Chlordane	3470230000	3355710000	3294030000	3342020000	3346470000	3361690000	2
Heptachlor	3876200000	3766580000	3709120000	3779090000	3738650000	3773930000	2
Heptachlor epoxide	3405420000	3318630000	3272090000	3352830000	3358060000	3341410000	1
Methoxychlor	1400820000	1385450000	1393920000	1470360000	1489590000	1428030000	3
Tetrachloro-m-xylene	2724750000	2661560000	2643180000	2728430000	2847900000	2721160000	3

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/21/2024 10/21/2024

Continuing Calib Time: 15:49 Initial Calibration Time(s): 13:00 13:53

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	3.99	3.89	4.09	-0.01
beta-BHC	4.53	4.52	4.42	4.62	-0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	-0.01
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/21/2024 10/21/2024

Continuing Calib Time: 15:49 Initial Calibration Time(s): 13:00 13:53

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.23	5.13	5.33	-0.01
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/21/2024 10/21/2024

Client Sample No.: CCAL01 Date Analyzed: 10/25/2024

Lab Sample No.: PSTDCCC050 Data File : PL092639.D Time Analyzed: 15:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.712	6.610	6.810	45.080	50.000	-9.8
4,4'-DDE	6.194	6.092	6.292	43.730	50.000	-12.5
4,4'-DDT	7.026	6.924	7.124	45.250	50.000	-9.5
Aldrin	5.259	5.157	5.357	44.540	50.000	-10.9
alpha-BHC	3.997	3.894	4.094	46.730	50.000	-6.5
alpha-Chlordane	6.021	5.918	6.118	44.250	50.000	-11.5
beta-BHC	4.527	4.424	4.624	51.520	50.000	3.0
Decachlorobiphenyl	9.057	8.955	9.155	51.240	50.000	2.5
delta-BHC	4.774	4.671	4.871	46.780	50.000	-6.4
Dieldrin	6.347	6.245	6.445	44.060	50.000	-11.9
Endosulfan I	6.071	5.969	6.169	44.900	50.000	-10.2
Endosulfan II	6.796	6.694	6.894	44.130	50.000	-11.7
Endosulfan sulfate	7.161	7.059	7.259	46.110	50.000	-7.8
Endrin	6.577	6.474	6.674	43.260	50.000	-13.5
Endrin aldehyde	6.926	6.824	7.024	47.780	50.000	-4.4
Endrin ketone	7.646	7.544	7.744	47.870	50.000	-4.3
gamma-BHC (Lindane)	4.330	4.227	4.427	47.880	50.000	-4.2
gamma-Chlordane	5.942	5.839	6.039	44.330	50.000	-11.3
Heptachlor	4.917	4.815	5.015	46.560	50.000	-6.9
Heptachlor epoxide	5.685	5.583	5.783	45.530	50.000	-8.9
Methoxychlor	7.501	7.400	7.600	51.890	50.000	3.8
Tetrachloro-m-xylene	3.541	3.438	3.638	50.750	50.000	1.5

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/21/2024 10/21/2024

Client Sample No.: CCAL01 Date Analyzed: 10/25/2024

Lab Sample No.: PSTDCCC050 Data File : PL092639.D Time Analyzed: 15:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.790	5.689	5.889	53.200	50.000	6.4
4,4'-DDE	5.236	5.134	5.334	54.690	50.000	9.4
4,4'-DDT	6.042	5.940	6.140	52.500	50.000	5.0
Aldrin	4.231	4.129	4.329	54.250	50.000	8.5
alpha-BHC	3.282	3.180	3.380	55.250	50.000	10.5
alpha-Chlordane	5.047	4.945	5.145	53.760	50.000	7.5
beta-BHC	3.912	3.810	4.010	54.050	50.000	8.1
Decachlorobiphenyl	7.918	7.817	8.017	58.290	50.000	16.6
delta-BHC	4.141	4.038	4.238	54.080	50.000	8.2
Dieldrin	5.368	5.266	5.466	53.240	50.000	6.5
Endosulfan I	5.103	5.001	5.201	54.670	50.000	9.3
Endosulfan II	5.937	5.836	6.036	52.390	50.000	4.8
Endosulfan sulfate	6.340	6.238	6.438	51.960	50.000	3.9
Endrin	5.643	5.541	5.741	53.930	50.000	7.9
Endrin aldehyde	6.118	6.016	6.216	53.070	50.000	6.1
Endrin ketone	6.844	6.744	6.944	55.890	50.000	11.8
gamma-BHC (Lindane)	3.612	3.510	3.710	55.850	50.000	11.7
gamma-Chlordane	4.984	4.881	5.081	52.600	50.000	5.2
Heptachlor	3.951	3.849	4.049	54.990	50.000	10.0
Heptachlor epoxide	4.734	4.631	4.831	54.980	50.000	10.0
Methoxychlor	6.617	6.515	6.715	57.220	50.000	14.4
Tetrachloro-m-xylene	2.779	2.677	2.877	56.350	50.000	12.7

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/21/2024 10/21/2024

Continuing Calib Time: 19:49 Initial Calibration Time(s): 13:00 13:53

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	3.99	3.89	4.09	-0.01
beta-BHC	4.53	4.52	4.42	4.62	-0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	0.00
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/21/2024 10/21/2024

Continuing Calib Time: 19:49 Initial Calibration Time(s): 13:00 13:53

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.23	5.13	5.33	-0.01
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/21/2024 10/21/2024

Client Sample No.: CCAL02 Date Analyzed: 10/25/2024

Lab Sample No.: PSTDCCC050 Data File : PL092650.D Time Analyzed: 19:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.712	6.610	6.810	44.010	50.000	-12.0
4,4'-DDE	6.194	6.092	6.292	42.640	50.000	-14.7
4,4'-DDT	7.026	6.924	7.124	43.180	50.000	-13.6
Aldrin	5.259	5.157	5.357	43.070	50.000	-13.9
alpha-BHC	3.997	3.894	4.094	45.620	50.000	-8.8
alpha-Chlordane	6.022	5.918	6.118	42.360	50.000	-15.3
beta-BHC	4.527	4.424	4.624	50.200	50.000	0.4
Decachlorobiphenyl	9.058	8.955	9.155	49.750	50.000	-0.5
delta-BHC	4.774	4.671	4.871	45.630	50.000	-8.7
Dieldrin	6.347	6.245	6.445	42.770	50.000	-14.5
Endosulfan I	6.072	5.969	6.169	43.010	50.000	-14.0
Endosulfan II	6.796	6.694	6.894	42.720	50.000	-14.6
Endosulfan sulfate	7.160	7.059	7.259	44.580	50.000	-10.8
Endrin	6.577	6.474	6.674	41.530	50.000	-16.9
Endrin aldehyde	6.926	6.824	7.024	46.460	50.000	-7.1
Endrin ketone	7.645	7.544	7.744	46.460	50.000	-7.1
gamma-BHC (Lindane)	4.330	4.227	4.427	46.750	50.000	-6.5
gamma-Chlordane	5.942	5.839	6.039	42.060	50.000	-15.9
Heptachlor	4.918	4.815	5.015	45.090	50.000	-9.8
Heptachlor epoxide	5.686	5.583	5.783	43.960	50.000	-12.1
Methoxychlor	7.501	7.400	7.600	49.670	50.000	-0.7
Tetrachloro-m-xylene	3.541	3.438	3.638	49.590	50.000	-0.8

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/21/2024 10/21/2024

Client Sample No.: CCAL02 Date Analyzed: 10/25/2024

Lab Sample No.: PSTDCCC050 Data File : PL092650.D Time Analyzed: 19:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.791	5.689	5.889	52.160	50.000	4.3
4,4'-DDE	5.236	5.134	5.334	52.950	50.000	5.9
4,4'-DDT	6.041	5.940	6.140	49.480	50.000	-1.0
Aldrin	4.231	4.129	4.329	53.310	50.000	6.6
alpha-BHC	3.282	3.180	3.380	53.910	50.000	7.8
alpha-Chlordane	5.048	4.945	5.145	52.920	50.000	5.8
beta-BHC	3.912	3.810	4.010	53.160	50.000	6.3
Decachlorobiphenyl	7.918	7.817	8.017	54.870	50.000	9.7
delta-BHC	4.141	4.038	4.238	53.140	50.000	6.3
Dieldrin	5.368	5.266	5.466	51.770	50.000	3.5
Endosulfan I	5.104	5.001	5.201	53.580	50.000	7.2
Endosulfan II	5.937	5.836	6.036	50.460	50.000	0.9
Endosulfan sulfate	6.340	6.238	6.438	49.980	50.000	0.0
Endrin	5.644	5.541	5.741	51.490	50.000	3.0
Endrin aldehyde	6.117	6.016	6.216	51.170	50.000	2.3
Endrin ketone	6.844	6.744	6.944	53.810	50.000	7.6
gamma-BHC (Lindane)	3.612	3.510	3.710	54.770	50.000	9.5
gamma-Chlordane	4.984	4.881	5.081	52.070	50.000	4.1
Heptachlor	3.951	3.849	4.049	53.610	50.000	7.2
Heptachlor epoxide	4.734	4.631	4.831	54.180	50.000	8.4
Methoxychlor	6.617	6.515	6.715	53.570	50.000	7.1
Tetrachloro-m-xylene	2.779	2.677	2.877	55.300	50.000	10.6

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 09:09 Initial Calibration Time(s): 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.55	3.54	3.44	3.64	-0.01
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.78	4.77	4.67	4.87	-0.01
gamma-BHC (Lindane)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.27	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endosulfan I	6.08	6.07	5.97	6.17	-0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.72	6.71	6.61	6.81	-0.01
Endosulfan sulfate	7.17	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.51	7.50	7.40	7.60	-0.01
Endrin ketone	7.65	7.64	7.54	7.74	-0.01
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.03	6.02	5.92	6.12	-0.01
gamma-Chlordane	5.95	5.94	5.84	6.04	-0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 09:09 Initial Calibration Time(s): 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.24	5.14	5.34	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00
Endrin ketone	6.85	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL03 Date Analyzed: 11/04/2024

Lab Sample No.: PSTDCCC050 Data File : PL092817.D Time Analyzed: 09:09

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.716	6.610	6.810	48.080	50.000	-3.8
4,4'-DDE	6.199	6.093	6.293	47.590	50.000	-4.8
4,4'-DDT	7.030	6.923	7.123	46.150	50.000	-7.7
Aldrin	5.265	5.158	5.358	48.280	50.000	-3.4
alpha-BHC	4.003	3.896	4.096	49.340	50.000	-1.3
alpha-Chlordane	6.026	5.919	6.119	47.760	50.000	-4.5
beta-BHC	4.532	4.425	4.625	48.750	50.000	-2.5
Decachlorobiphenyl	9.061	8.954	9.154	47.130	50.000	-5.7
delta-BHC	4.780	4.672	4.872	48.710	50.000	-2.6
Dieldrin	6.351	6.245	6.445	46.950	50.000	-6.1
Endosulfan I	6.076	5.970	6.170	47.320	50.000	-5.4
Endosulfan II	6.800	6.694	6.894	46.160	50.000	-7.7
Endosulfan sulfate	7.165	7.058	7.258	46.480	50.000	-7.0
Endrin	6.581	6.474	6.674	45.470	50.000	-9.1
Endrin aldehyde	6.930	6.824	7.024	46.310	50.000	-7.4
Endrin ketone	7.649	7.543	7.743	46.020	50.000	-8.0
gamma-BHC (Lindane)	4.335	4.228	4.428	49.020	50.000	-2.0
gamma-Chlordane	5.947	5.841	6.041	47.700	50.000	-4.6
Heptachlor	4.923	4.817	5.017	47.590	50.000	-4.8
Heptachlor epoxide	5.691	5.584	5.784	47.660	50.000	-4.7
Methoxychlor	7.505	7.399	7.599	46.150	50.000	-7.7
Tetrachloro-m-xylene	3.547	3.440	3.640	49.530	50.000	-0.9

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL03 Date Analyzed: 11/04/2024

Lab Sample No.: PSTDCCC050 Data File : PL092817.D Time Analyzed: 09:09

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.791	5.689	5.889	53.140	50.000	6.3
4,4'-DDE	5.236	5.135	5.335	52.480	50.000	5.0
4,4'-DDT	6.041	5.940	6.140	50.720	50.000	1.4
Aldrin	4.231	4.129	4.329	53.260	50.000	6.5
alpha-BHC	3.282	3.181	3.381	53.250	50.000	6.5
alpha-Chlordane	5.048	4.945	5.145	52.350	50.000	4.7
beta-BHC	3.912	3.810	4.010	51.870	50.000	3.7
Decachlorobiphenyl	7.918	7.816	8.016	48.500	50.000	-3.0
delta-BHC	4.141	4.039	4.239	52.700	50.000	5.4
Dieldrin	5.368	5.266	5.466	53.190	50.000	6.4
Endosulfan I	5.104	5.002	5.202	52.400	50.000	4.8
Endosulfan II	5.938	5.836	6.036	52.790	50.000	5.6
Endosulfan sulfate	6.340	6.238	6.438	50.980	50.000	2.0
Endrin	5.643	5.541	5.741	52.510	50.000	5.0
Endrin aldehyde	6.117	6.015	6.215	50.930	50.000	1.9
Endrin ketone	6.845	6.743	6.943	51.500	50.000	3.0
gamma-BHC (Lindane)	3.612	3.511	3.711	53.130	50.000	6.3
gamma-Chlordane	4.984	4.882	5.082	52.800	50.000	5.6
Heptachlor	3.952	3.849	4.049	51.750	50.000	3.5
Heptachlor epoxide	4.734	4.632	4.832	52.600	50.000	5.2
Methoxychlor	6.616	6.515	6.715	46.910	50.000	-6.2
Tetrachloro-m-xylene	2.779	2.678	2.878	52.180	50.000	4.4

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 18:11 Initial Calibration Time(s): 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.78	4.77	4.67	4.87	-0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	0.00
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/04/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 18:11 Initial Calibration Time(s): 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.24	5.14	5.34	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.01
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL04 Date Analyzed: 11/04/2024

Lab Sample No.: PSTDCCC050 Data File : PL092839.D Time Analyzed: 18:11

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.711	6.610	6.810	50.970	50.000	1.9
4,4'-DDE	6.194	6.093	6.293	49.480	50.000	-1.0
4,4'-DDT	7.026	6.923	7.123	45.210	50.000	-9.6
Aldrin	5.260	5.158	5.358	49.590	50.000	-0.8
alpha-BHC	3.998	3.896	4.096	51.240	50.000	2.5
alpha-Chlordane	6.021	5.919	6.119	49.160	50.000	-1.7
beta-BHC	4.528	4.425	4.625	50.710	50.000	1.4
Decachlorobiphenyl	9.056	8.954	9.154	48.380	50.000	-3.2
delta-BHC	4.775	4.672	4.872	50.640	50.000	1.3
Dieldrin	6.346	6.245	6.445	48.600	50.000	-2.8
Endosulfan I	6.072	5.970	6.170	48.830	50.000	-2.3
Endosulfan II	6.795	6.694	6.894	46.990	50.000	-6.0
Endosulfan sulfate	7.160	7.058	7.258	47.390	50.000	-5.2
Endrin	6.576	6.474	6.674	46.360	50.000	-7.3
Endrin aldehyde	6.926	6.824	7.024	47.830	50.000	-4.3
Endrin ketone	7.645	7.543	7.743	48.350	50.000	-3.3
gamma-BHC (Lindane)	4.330	4.228	4.428	50.830	50.000	1.7
gamma-Chlordane	5.942	5.841	6.041	49.270	50.000	-1.5
Heptachlor	4.919	4.817	5.017	49.200	50.000	-1.6
Heptachlor epoxide	5.686	5.584	5.784	48.950	50.000	-2.1
Methoxychlor	7.501	7.399	7.599	45.600	50.000	-8.8
Tetrachloro-m-xylene	3.542	3.440	3.640	50.840	50.000	1.7

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL04 Date Analyzed: 11/04/2024

Lab Sample No.: PSTDCCC050 Data File : PL092839.D Time Analyzed: 18:11

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.790	5.689	5.889	58.060	50.000	16.1
4,4'-DDE	5.235	5.135	5.335	55.730	50.000	11.5
4,4'-DDT	6.040	5.940	6.140	50.810	50.000	1.6
Aldrin	4.230	4.129	4.329	56.250	50.000	12.5
alpha-BHC	3.281	3.181	3.381	56.490	50.000	13.0
alpha-Chlordane	5.046	4.945	5.145	55.430	50.000	10.9
beta-BHC	3.911	3.810	4.010	54.720	50.000	9.4
Decachlorobiphenyl	7.917	7.816	8.016	49.000	50.000	-2.0
delta-BHC	4.140	4.039	4.239	56.170	50.000	12.3
Dieldrin	5.366	5.266	5.466	55.840	50.000	11.7
Endosulfan I	5.102	5.002	5.202	55.360	50.000	10.7
Endosulfan II	5.936	5.836	6.036	54.510	50.000	9.0
Endosulfan sulfate	6.338	6.238	6.438	53.770	50.000	7.5
Endrin	5.642	5.541	5.741	54.280	50.000	8.6
Endrin aldehyde	6.116	6.015	6.215	53.210	50.000	6.4
Endrin ketone	6.844	6.743	6.943	54.600	50.000	9.2
gamma-BHC (Lindane)	3.611	3.511	3.711	56.260	50.000	12.5
gamma-Chlordane	4.982	4.882	5.082	55.530	50.000	11.1
Heptachlor	3.950	3.849	4.049	54.880	50.000	9.8
Heptachlor epoxide	4.732	4.632	4.832	55.470	50.000	10.9
Methoxychlor	6.615	6.515	6.715	49.110	50.000	-1.8
Tetrachloro-m-xylene	2.779	2.678	2.878	54.940	50.000	9.9

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092495.D **Date Analyzed:** 10/21/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:33

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.056	8.960	9.160	19.690	20.000	-1.6
Tetrachloro-m-xylene	3.539	3.490	3.590	19.690	20.000	-1.6
alpha-BHC	3.995	3.940	4.050	10.390	10.000	3.9
beta-BHC	4.525	4.470	4.580	9.750	10.000	-2.5
gamma-BHC (Lindane)	4.327	4.280	4.380	9.890	10.000	-1.1
Endrin	6.575	6.500	6.650	44.220	50.000	-11.6
4,4'-DDT	7.025	6.950	7.100	91.010	100.000	-9.0
Methoxychlor	7.501	7.430	7.570	222.860	250.000	-10.9

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092495.D **Date Analyzed:** 10/21/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 12:33

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.918	7.820	8.020	19.360	20.000	-3.2
Tetrachloro-m-xylene	2.777	2.730	2.830	19.090	20.000	-4.6
alpha-BHC	3.280	3.230	3.330	9.580	10.000	-4.2
beta-BHC	3.910	3.860	3.960	11.410	10.000	14.1
gamma-BHC (Lindane)	3.610	3.560	3.660	9.570	10.000	-4.3
Endrin	5.642	5.570	5.710	45.220	50.000	-9.6
4,4'-DDT	6.041	5.970	6.110	97.030	100.000	-3.0
Methoxychlor	6.616	6.550	6.690	226.150	250.000	-9.5

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092638.D **Date Analyzed:** 10/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:22

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.059	8.960	9.160	19.520	20.000	-2.4
Tetrachloro-m-xylene	3.542	3.490	3.590	18.900	20.000	-5.5
alpha-BHC	3.998	3.950	4.050	8.890	10.000	-11.1
beta-BHC	4.528	4.480	4.580	10.650	10.000	6.5
gamma-BHC (Lindane)	4.330	4.280	4.380	8.960	10.000	-10.4
Endrin	6.576	6.510	6.650	36.770	50.000	-26.5
4,4'-DDT	7.027	6.960	7.100	77.380	100.000	-22.6
Methoxychlor	7.503	7.430	7.570	208.950	250.000	-16.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/21/2024 10/21/2024

Client Sample No. (PEM): PEM - PL092638.D **Date Analyzed:** 10/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:22

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.919	7.820	8.020	21.610	20.000	8.1
Tetrachloro-m-xylene	2.781	2.730	2.830	19.830	20.000	-0.9
alpha-BHC	3.283	3.230	3.330	9.010	10.000	-9.9
beta-BHC	3.913	3.860	3.960	10.290	10.000	2.9
gamma-BHC (Lindane)	3.613	3.560	3.660	8.840	10.000	-11.6
Endrin	5.644	5.570	5.710	44.220	50.000	-11.6
4,4'-DDT	6.042	5.970	6.110	99.500	100.000	-0.5
Methoxychlor	6.617	6.550	6.690	246.500	250.000	-1.4

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.059	8.960	9.160	19.970	20.000	-0.2
Tetrachloro-m-xylene	3.546	3.500	3.600	19.290	20.000	-3.6
alpha-BHC	4.001	3.950	4.050	9.920	10.000	-0.8
beta-BHC	4.531	4.480	4.580	10.060	10.000	0.6
gamma-BHC (Lindane)	4.334	4.280	4.380	9.660	10.000	-3.4
Endrin	6.580	6.510	6.650	41.060	50.000	-17.9
4,4'-DDT	7.030	6.960	7.100	88.060	100.000	-11.9
Methoxychlor	7.505	7.430	7.580	204.090	250.000	-18.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.918	7.820	8.020	19.080	20.000	-4.6
Tetrachloro-m-xylene	2.778	2.730	2.830	18.500	20.000	-7.5
alpha-BHC	3.281	3.230	3.330	8.630	10.000	-13.7
beta-BHC	3.911	3.860	3.960	9.760	10.000	-2.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.390	10.000	-16.1
Endrin	5.643	5.570	5.710	44.130	50.000	-11.7
4,4'-DDT	6.042	5.970	6.110	98.070	100.000	-1.9
Methoxychlor	6.616	6.550	6.690	225.800	250.000	-9.7

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092816.D Date Analyzed: 11/04/2024

Lab Sample No.(PEM): PEM Time Analyzed: 08:48

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.056	8.960	9.160	20.030	20.000	0.2
Tetrachloro-m-xylene	3.542	3.490	3.590	20.980	20.000	4.9
alpha-BHC	3.997	3.950	4.050	10.770	10.000	7.7
beta-BHC	4.527	4.480	4.580	11.200	10.000	12.0
gamma-BHC (Lindane)	4.330	4.280	4.380	10.570	10.000	5.7
Endrin	6.576	6.510	6.650	41.750	50.000	-16.5
4,4'-DDT	7.026	6.960	7.100	86.870	100.000	-13.1
Methoxychlor	7.502	7.430	7.570	198.210	250.000	-20.7

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092816.D Date Analyzed: 11/04/2024

Lab Sample No.(PEM): PEM Time Analyzed: 08:48

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.915	7.810	8.020	19.240	20.000	-3.8
Tetrachloro-m-xylene	2.779	2.730	2.830	20.900	20.000	4.5
alpha-BHC	3.281	3.230	3.330	9.890	10.000	-1.1
beta-BHC	3.911	3.860	3.960	11.070	10.000	10.7
gamma-BHC (Lindane)	3.611	3.560	3.660	9.580	10.000	-4.2
Endrin	5.642	5.570	5.710	49.110	50.000	-1.8
4,4'-DDT	6.040	5.970	6.110	104.550	100.000	4.6
Methoxychlor	6.615	6.540	6.690	217.570	250.000	-13.0

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: ECD_L

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/21/2024

10/21/2024

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 #
IBLK	IBLK	10/21/2024	12:19	PL092494.D	9.06	3.54
PEM	PEM	10/21/2024	12:33	PL092495.D	9.06	3.54
RESCHK	RESCHK	10/21/2024	12:46	PL092496.D	9.06	3.54
PSTDICCC100	PSTDICCC100	10/21/2024	13:00	PL092497.D	9.06	3.54
PSTDICCC075	PSTDICCC075	10/21/2024	13:13	PL092498.D	9.06	3.54
PSTDICCC050	PSTDICCC050	10/21/2024	13:26	PL092499.D	9.06	3.54
PSTDICCC025	PSTDICCC025	10/21/2024	13:40	PL092500.D	9.05	3.54
PSTDICCC005	PSTDICCC005	10/21/2024	13:53	PL092501.D	9.06	3.54
PCHLORICC500	PCHLORICC500	10/21/2024	14:33	PL092504.D	9.06	3.54
PTOXICC500	PTOXICC500	10/21/2024	15:40	PL092509.D	9.06	3.54
IBLK	IBLK	10/25/2024	15:08	PL092637.D	9.06	3.54
PEM	PEM	10/25/2024	15:22	PL092638.D	9.06	3.54
PSTDCCC050	PSTDCCC050	10/25/2024	15:49	PL092639.D	9.06	3.54
PB164398BL	PB164398BL	10/25/2024	16:46	PL092640.D	9.06	3.55
PB164398BS	PB164398BS	10/25/2024	16:59	PL092641.D	9.06	3.54
BP-F-20MS	P4547-05MS	10/25/2024	18:42	PL092647.D	9.06	3.54
BP-F-20MSD	P4547-05MSD	10/25/2024	18:56	PL092648.D	9.06	3.54
IBLK	IBLK	10/25/2024	19:09	PL092649.D	9.06	3.54
PSTDCCC050	PSTDCCC050	10/25/2024	19:49	PL092650.D	9.06	3.54
IBLK	IBLK	10/28/2024	13:55	PL092652.D	9.05	3.54
PEM	PEM	10/28/2024	14:16	PL092653.D	9.06	3.55
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	9.05	3.54
PSTDICCC100	PSTDICCC100	10/28/2024	14:43	PL092655.D	9.05	3.54
PSTDICCC075	PSTDICCC075	10/28/2024	14:56	PL092656.D	9.05	3.54
PSTDICCC050	PSTDICCC050	10/28/2024	15:09	PL092657.D	9.05	3.54
PSTDICCC025	PSTDICCC025	10/28/2024	15:23	PL092658.D	9.05	3.54
PSTDICCC005	PSTDICCC005	10/28/2024	15:36	PL092659.D	9.05	3.54
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	9.06	3.54
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	9.05	3.54
IBLK	IBLK	11/04/2024	08:34	PL092815.D	9.06	3.54
PEM	PEM	11/04/2024	08:48	PL092816.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/04/2024	09:09	PL092817.D	9.06	3.55
PT-PEST-SOIL	P4495-20	11/04/2024	11:12	PL092818.D	9.06	3.55
PT-PEST-SOILDL	P4495-20DL	11/04/2024	11:26	PL092819.D	9.06	3.54
PT-PEST-SOILDL2	P4495-20DL2	11/04/2024	11:39	PL092820.D	9.06	3.54
IBLK	IBLK	11/04/2024	17:57	PL092838.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/04/2024	18:11	PL092839.D	9.06	3.54

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: ECD_L

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/21/2024

10/21/2024

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 #
IBLK	IBLK	10/21/2024	12:19	PL092494.D	7.92	2.78
PEM	PEM	10/21/2024	12:33	PL092495.D	7.92	2.78
RESCHK	RESCHK	10/21/2024	12:46	PL092496.D	7.92	2.78
PSTDICC100	PSTDICC100	10/21/2024	13:00	PL092497.D	7.92	2.78
PSTDICC075	PSTDICC075	10/21/2024	13:13	PL092498.D	7.92	2.78
PSTDICC050	PSTDICC050	10/21/2024	13:26	PL092499.D	7.92	2.78
PSTDICC025	PSTDICC025	10/21/2024	13:40	PL092500.D	7.92	2.78
PSTDICC005	PSTDICC005	10/21/2024	13:53	PL092501.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/21/2024	14:33	PL092504.D	7.92	2.78
PTOXICC500	PTOXICC500	10/21/2024	15:40	PL092509.D	7.92	2.78
IBLK	IBLK	10/25/2024	15:08	PL092637.D	7.92	2.78
PEM	PEM	10/25/2024	15:22	PL092638.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/25/2024	15:49	PL092639.D	7.92	2.78
PB164398BL	PB164398BL	10/25/2024	16:46	PL092640.D	7.92	2.78
PB164398BS	PB164398BS	10/25/2024	16:59	PL092641.D	7.92	2.78
BP-F-20MS	P4547-05MS	10/25/2024	18:42	PL092647.D	7.92	2.78
BP-F-20MSD	P4547-05MSD	10/25/2024	18:56	PL092648.D	7.92	2.78
IBLK	IBLK	10/25/2024	19:09	PL092649.D	7.92	2.78
PSTDCCC050	PSTDCCC050	10/25/2024	19:49	PL092650.D	7.92	2.78
IBLK	IBLK	10/28/2024	13:55	PL092652.D	7.92	2.78
PEM	PEM	10/28/2024	14:16	PL092653.D	7.92	2.78
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	7.92	2.78
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	7.92	2.78
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	7.92	2.78
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	7.92	2.78
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	7.92	2.78
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	7.92	2.78
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	7.92	2.78
IBLK	IBLK	11/04/2024	08:34	PL092815.D	7.92	2.78
PEM	PEM	11/04/2024	08:48	PL092816.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/04/2024	09:09	PL092817.D	7.92	2.78
PT-PEST-SOIL	P4495-20	11/04/2024	11:12	PL092818.D	7.92	2.78
PT-PEST-SOILDL	P4495-20DL	11/04/2024	11:26	PL092819.D	7.92	2.78
PT-PEST-SOILDL2	P4495-20DL2	11/04/2024	11:39	PL092820.D	7.92	2.78
IBLK	IBLK	11/04/2024	17:57	PL092838.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/04/2024	18:11	PL092839.D	7.92	2.78

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-20MS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4547-05MS

Date(s) Analyzed: 10/25/2024

10/25/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column:(2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.71	6.66	6.76	14.9	8.4
	2	5.79	5.74	5.84	16.2	
4,4'-DDT	1	7.03	6.98	7.08	14.8	9
	2	6.04	5.99	6.09	16.2	
alpha-BHC	1	4.00	3.95	4.05	14.9	14.9
	2	3.28	3.23	3.33	17.3	
Aldrin	1	5.26	5.21	5.31	14.4	14.2
	2	4.23	4.18	4.28	16.6	
beta-BHC	1	4.53	4.48	4.58	16.8	5.2
	2	3.91	3.86	3.96	17.7	
alpha-Chlordane	1	6.02	5.97	6.07	14.5	19.9
	2	5.05	5.00	5.10	17.7	
4,4'-DDE	1	6.19	6.14	6.24	14.4	18.9
	2	5.24	5.19	5.29	17.4	
Endosulfan II	1	6.80	6.75	6.85	14.8	9.6
	2	5.94	5.89	5.99	16.3	
Endrin aldehyde	1	6.93	6.88	6.98	14.9	7.7
	2	6.12	6.07	6.17	16.1	
Endosulfan sulfate	1	7.16	7.11	7.21	15.2	5.1
	2	6.34	6.29	6.39	16.0	
Methoxychlor	1	7.50	7.45	7.55	16.7	1.2
	2	6.62	6.57	6.67	16.9	
Endrin ketone	1	7.65	7.60	7.70	15.4	7.5
	2	6.85	6.80	6.90	16.6	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	14.9	13.8
	2	3.61	3.56	3.66	17.1	
Heptachlor	1	4.92	4.87	4.97	15.2	15.8
	2	3.95	3.90	4.00	17.8	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-20MS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4547-05MS

Date(s) Analyzed: 10/25/2024

10/25/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
delta-BHC	1	4.77	4.72	4.82	14.5	12.3
	2	4.14	4.09	4.19	16.4	
Heptachlor epoxide	1	5.69	5.64	5.74	14.5	16.5
	2	4.73	4.68	4.78	17.1	
Endosulfan I	1	6.07	6.02	6.12	14.6	20.3
	2	5.10	5.05	5.15	17.9	
gamma-Chlordane	1	5.94	5.89	5.99	14.5	17
	2	4.98	4.93	5.03	17.2	
Dieldrin	1	6.35	6.30	6.40	14.4	14.2
	2	5.37	5.32	5.42	16.6	
Endrin	1	6.58	6.53	6.63	13.7	16.1
	2	5.64	5.59	5.69	16.1	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-20MSD

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4547-05MSD

Date(s) Analyzed: 10/25/2024

10/25/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.80	6.75	6.85	14.5	14.7
	2	5.94	5.89	5.99	16.8	
4,4'-DDD	1	6.71	6.66	6.76	14.7	14.5
	2	5.79	5.74	5.84	17.0	
4,4'-DDT	1	7.03	6.98	7.08	14.9	10.8
	2	6.04	5.99	6.09	16.6	
Endrin aldehyde	1	6.93	6.88	6.98	14.8	8.4
	2	6.12	6.07	6.17	16.1	
Endosulfan sulfate	1	7.16	7.11	7.21	15.0	10.7
	2	6.34	6.29	6.39	16.7	
Methoxychlor	1	7.50	7.45	7.55	16.7	7.5
	2	6.62	6.57	6.67	18.0	
Endrin ketone	1	7.65	7.60	7.70	15.5	8
	2	6.85	6.80	6.90	16.8	
alpha-BHC	1	4.00	3.95	4.05	14.6	16.9
	2	3.28	3.23	3.33	17.3	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	14.7	15.7
	2	3.61	3.56	3.66	17.2	
Heptachlor	1	4.92	4.87	4.97	15.1	17.5
	2	3.95	3.90	4.00	18.0	
Aldrin	1	5.26	5.21	5.31	13.9	18.9
	2	4.23	4.18	4.28	16.8	
beta-BHC	1	4.53	4.48	4.58	16.4	8.7
	2	3.91	3.86	3.96	17.9	
delta-BHC	1	4.77	4.72	4.82	14.4	14.2
	2	4.14	4.09	4.19	16.6	
Heptachlor epoxide	1	5.69	5.64	5.74	14.3	19.6
	2	4.73	4.68	4.78	17.4	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-20MSD

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: P4547-05MSD

Date(s) Analyzed: 10/25/2024 10/25/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2 ID: 0.32 (mm)

GC Column: (2): ZB-MR1 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.07	6.02	6.12	14.5	21
	2	5.10	5.05	5.15	17.9	
gamma-Chlordane	1	5.94	5.89	5.99	14.3	18.4
	2	4.98	4.93	5.03	17.2	
alpha-Chlordane	1	6.02	5.97	6.07	14.4	18.9
	2	5.05	5.00	5.10	17.4	
4,4'-DDE	1	6.19	6.14	6.24	14.3	20.7
	2	5.24	5.19	5.29	17.6	
Dieldrin	1	6.35	6.30	6.40	14.1	19.2
	2	5.37	5.32	5.42	17.1	
Endrin	1	6.58	6.53	6.63	13.8	21.9
	2	5.64	5.59	5.69	17.2	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164398BS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: PB164398BS

Date(s) Analyzed: 10/25/2024

10/25/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column:(2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.80	6.75	6.85	14.0	15.2
	2	5.94	5.89	5.99	16.3	
4,4'-DDD	1	6.71	6.66	6.76	14.2	15.6
	2	5.79	5.74	5.84	16.6	
4,4'-DDT	1	7.03	6.98	7.08	14.3	11.8
	2	6.04	5.99	6.09	16.1	
Endrin aldehyde	1	6.93	6.88	6.98	14.8	11.5
	2	6.12	6.07	6.17	16.6	
Endosulfan sulfate	1	7.16	7.11	7.21	14.6	11
	2	6.34	6.29	6.39	16.3	
Methoxychlor	1	7.50	7.45	7.55	16.5	7.6
	2	6.62	6.57	6.67	17.8	
Endrin ketone	1	7.65	7.60	7.70	15.1	13
	2	6.85	6.80	6.90	17.2	
alpha-BHC	1	4.00	3.95	4.05	13.8	16
	2	3.28	3.23	3.33	16.2	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	14.3	13.7
	2	3.61	3.56	3.66	16.4	
Heptachlor	1	4.92	4.87	4.97	14.3	15.5
	2	3.95	3.90	4.00	16.7	
Aldrin	1	5.26	5.21	5.31	13.6	18.1
	2	4.23	4.18	4.28	16.3	
beta-BHC	1	4.53	4.48	4.58	15.7	6.2
	2	3.91	3.86	3.96	16.7	
delta-BHC	1	4.77	4.72	4.82	14.3	12.5
	2	4.14	4.09	4.19	16.2	
Heptachlor epoxide	1	5.69	5.64	5.74	14.1	18.6
	2	4.73	4.68	4.78	17.0	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164398BS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: PB164398BS

Date(s) Analyzed: 10/25/2024

10/25/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.07	6.02	6.12	13.9	21.2
	2	5.10	5.05	5.15	17.2	
gamma-Chlordane	1	5.94	5.89	5.99	13.8	17.2
	2	4.98	4.93	5.03	16.4	
alpha-Chlordane	1	6.02	5.97	6.07	13.8	19
	2	5.05	5.00	5.10	16.7	
4,4'-DDE	1	6.20	6.15	6.25	13.8	19.6
	2	5.24	5.19	5.29	16.8	
Dieldrin	1	6.35	6.30	6.40	13.8	17.2
	2	5.37	5.32	5.42	16.4	
Endrin	1	6.58	6.53	6.63	13.6	16.8
	2	5.64	5.59	5.69	16.1	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-PEST-SOIL

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4495-20

Date(s) Analyzed: 11/04/2024

11/04/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column:(2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.72	6.67	6.77	180	15.9
	2	5.79	5.74	5.84	211	
4,4'-DDE	1	6.20	6.15	6.25	292	11
	2	5.24	5.19	5.29	326	
4,4'-DDT	1	7.03	6.98	7.08	84.9	22.1
	2	6.04	5.99	6.09	106	
alpha-BHC	1	4.01	3.96	4.06	208	5.2
	2	3.28	3.23	3.33	219	
Aldrin	1	5.27	5.22	5.32	81.0	13.7
	2	4.23	4.18	4.28	92.9	
alpha-Chlordane	1	6.03	5.98	6.08	68.0	15.8
	2	5.05	5.00	5.10	79.7	
Endosulfan II	1	6.80	6.75	6.85	129	18.9
	2	5.94	5.89	5.99	156	
Endosulfan sulfate	1	7.17	7.12	7.22	46.7	16.5
	2	6.34	6.29	6.39	55.1	
beta-BHC	1	4.54	4.49	4.59	237	13.8
	2	3.91	3.86	3.96	272	
delta-BHC	1	4.78	4.73	4.83	263	3.7
	2	4.14	4.09	4.19	273	
Endosulfan I	1	6.08	6.03	6.13	34.2	12.3
	2	5.10	5.05	5.15	38.7	
Dieldrin	1	6.35	6.30	6.40	288	9
	2	5.37	5.32	5.42	315	
Endrin aldehyde	1	6.93	6.88	6.98	22.9	16.1
	2	6.12	6.07	6.17	26.9	
Methoxychlor	1	7.51	7.46	7.56	37.0	5.5
	2	6.62	6.57	6.67	39.1	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-PEST-SOIL

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4495-20

Date(s) Analyzed: 11/04/2024

11/04/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin ketone	1	7.65	7.60	7.70	155	9.8
	2	6.85	6.80	6.90	171	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	123	10
	2	3.61	3.56	3.66	136	
Heptachlor	1	4.93	4.88	4.98	251	3.9
	2	3.95	3.90	4.00	261	
Heptachlor epoxide	1	5.69	5.64	5.74	75.0	14.6
	2	4.73	4.68	4.78	86.8	
gamma-Chlordane	1	5.95	5.90	6.00	207	13.5
	2	4.98	4.93	5.03	237	
Endrin	1	6.58	6.53	6.63	34.6	23
	2	5.64	5.59	5.69	43.6	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-PEST-SOILDL

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4495-20DL

Date(s) Analyzed: 11/04/2024

11/04/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column:(2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.71	6.66	6.76	179	19.2
	2	5.79	5.74	5.84	217	
4,4'-DDT	1	7.03	6.98	7.08	83.6	21.7
	2	6.04	5.99	6.09	104	
alpha-BHC	1	4.00	3.95	4.05	205	11.1
	2	3.28	3.23	3.33	229	
Aldrin	1	5.26	5.21	5.31	81.0	16.9
	2	4.23	4.18	4.28	96.0	
beta-BHC	1	4.53	4.48	4.58	242	16.3
	2	3.91	3.86	3.96	285	
alpha-Chlordane	1	6.02	5.97	6.07	68.1	15.9
	2	5.05	5.00	5.10	79.9	
4,4'-DDE	1	6.20	6.15	6.25	291	16.1
	2	5.24	5.19	5.29	342	
Endosulfan II	1	6.80	6.75	6.85	130	20.1
	2	5.94	5.89	5.99	159	
Endrin aldehyde	1	6.93	6.88	6.98	24.7	8.5
	2	6.12	6.07	6.17	26.9	
Endosulfan sulfate	1	7.16	7.11	7.21	48.2	13.2
	2	6.34	6.29	6.39	55.0	
Methoxychlor	1	7.50	7.45	7.55	38.8	7
	2	6.62	6.57	6.67	41.6	
Endrin ketone	1	7.65	7.60	7.70	156	13.2
	2	6.84	6.79	6.89	178	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	122	13.7
	2	3.61	3.56	3.66	140	
Heptachlor	1	4.92	4.87	4.97	256	15.2
	2	3.95	3.90	4.00	298	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-PEST-SOILDL

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4495-20DL

Date(s) Analyzed: 11/04/2024

11/04/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
delta-BHC	1	4.78	4.73	4.83	262	10.5
	2	4.14	4.09	4.19	291	
Heptachlor epoxide	1	5.69	5.64	5.74	75.5	18.2
	2	4.73	4.68	4.78	90.6	
Endosulfan I	1	6.07	6.02	6.12	35.0	11.6
	2	5.10	5.05	5.15	39.3	
gamma-Chlordane	1	5.94	5.89	5.99	202	19.6
	2	4.98	4.93	5.03	246	
Dieldrin	1	6.35	6.30	6.40	291	16.1
	2	5.37	5.32	5.42	342	
Endrin	1	6.58	6.53	6.63	35.2	20.6
	2	5.64	5.59	5.69	43.3	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-PEST-SOILDL2

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: P4495-20DL2

Date(s) Analyzed: 11/04/2024 11/04/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2 ID: 0.32 (mm)

GC Column: (2): ZB-MR1 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.80	6.75	6.85	158	4.3
	2	5.94	5.89	5.99	165	
4,4'-DDD	1	6.71	6.66	6.76	208	3.3
	2	5.79	5.74	5.84	215	
4,4'-DDT	1	7.03	6.98	7.08	98.3	0.5
	2	6.04	5.99	6.09	98.8	
Endrin aldehyde	1	6.93	6.88	6.98	31.9	6.8
	2	6.12	6.07	6.17	29.8	
Endosulfan sulfate	1	7.16	7.11	7.21	63.5	9.1
	2	6.34	6.29	6.39	58.0	
Endrin ketone	1	7.65	7.60	7.70	190	2.1
	2	6.84	6.79	6.89	194	
alpha-BHC	1	4.00	3.95	4.05	211	2.8
	2	3.28	3.23	3.33	217	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	132	0
	2	3.61	3.56	3.66	132	
Aldrin	1	5.26	5.21	5.31	96.0	3.4
	2	4.23	4.18	4.28	92.8	
beta-BHC	1	4.53	4.48	4.58	290	5
	2	3.91	3.86	3.96	305	
delta-BHC	1	4.77	4.72	4.82	271	7.1
	2	4.14	4.09	4.19	291	
Endosulfan I	1	6.07	6.02	6.12	44.9	10.6
	2	5.10	5.05	5.15	40.4	
alpha-Chlordane	1	6.02	5.97	6.07	84.2	3
	2	5.05	5.00	5.10	81.7	
4,4'-DDE	1	6.19	6.14	6.24	317	10.2
	2	5.23	5.18	5.28	351	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-PEST-SOILDL2

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: P4495-20DL2

Date(s) Analyzed: 11/04/2024 11/04/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2 ID: 0.32 (mm)

GC Column: (2): ZB-MR1 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Dieldrin	1	6.35	6.30	6.40	322	11.7
	2	5.37	5.32	5.42	362	
Endrin	1	6.58	6.53	6.63	44.8	3.6
	2	5.64	5.59	5.69	43.2	
Methoxychlor	1	7.50	7.45	7.55	48.5	4.9
	2	6.61	6.56	6.66	46.2	
Heptachlor	1	4.92	4.87	4.97	292	8.2
	2	3.95	3.90	4.00	317	
Heptachlor epoxide	1	5.69	5.64	5.74	99.5	7.6
	2	4.73	4.68	4.78	92.2	
gamma-Chlordane	1	5.94	5.89	5.99	227	8.4
	2	4.98	4.93	5.03	247	

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	PT-DIES-SOIL	SOIL			10/21/24			10/23/24
			Diesel Range Organics	8015D		10/24/24	10/24/24	
			Diesel Range Organics	8015D		10/24/24	10/25/24	
P4495-15	PT-GAS-SOIL	SOIL			10/21/24			10/23/24
			Gasoline Range Organics	8015D			10/24/24	
			Gasoline Range Organics	8015D			10/30/24	
P4495-16	PT-NJEPH-SOIL	Solid			10/21/24			10/23/24
			EPH	NJEPH		10/25/24	10/28/24	
			EPH	NJEPH		10/25/24	10/29/24	
			EPH	NJEPH		10/25/24	10/28/24	
P4495-16DL 2	PT-NJEPH-SOILDL2	Solid			10/21/24			10/23/24
			EPH	NJEPH		10/25/24	10/28/24	
P4495-17	PT-HERB-SOIL	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-17RE	PT-HERB-SOILRE	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-18	PT-PCB-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-18DL	PT-PCB-SOILDL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-19	PT-PCBO-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/28/24	
P4495-19DL	PT-PCBO-SOILDL	SOIL			10/21/24			10/23/24

LAB CHRONICLE

			PCB	8082A		10/25/24	10/28/24	
P4495-20	PT-PEST-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL 2	PT-PEST-SOILDL2	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	PT-CHLR-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	PT-TXP-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	PT-TXP-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	

Hit Summary Sheet
SW-846

SDG No.: P4495

Order ID: P4495

Client: Chemtech Consulting Group

Project ID: NJ Soil PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	PT-PCB-SOIL							
P4495-18	PT-PCB-SOIL	SOIL	Aroclor-1016	7200	E	3.40	17.0	ug/kg
			Total Concentration:	7,200.000				
Client ID :	PT-PCB-SOIL DL							
P4495-18DL	PT-PCB-SOIL DL	SOIL	Aroclor-1016	7700	D	84.6	424	ug/kg
			Total Concentration:	7,700.000				
Client ID :	PT-PCBO-SOIL							
P4495-19	PT-PCBO-SOIL	SOIL	Aroclor-1221	18000	E	187	495	ug/kg
			Total Concentration:	18,000.000				
Client ID :	PT-PCBO-SOILDL							
P4495-19DL	PT-PCBO-SOILDL	SOIL	Aroclor-1221	18000	D	933	2500	ug/kg
			Total Concentration:	18,000.000				



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PCB-SOIL		SDG No.:	P4495	
Lab Sample ID:	P4495-18		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	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
PO107377.D	1	10/25/24 09:40	10/25/24 13:46	PB164397

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	7200	E	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		32 - 144	136%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.9		32 - 175	120%	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PCB-SOILDL		SDG No.:	P4495	
Lab Sample ID:	P4495-18DL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	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
PO107381.D	25	10/25/24 09:40	10/25/24 15:16	PB164397

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	7700	D	84.6	424	ug/kg
11104-28-2	Aroclor-1221	160	UD	160	424	ug/kg
11141-16-5	Aroclor-1232	84.9	UD	84.9	424	ug/kg
53469-21-9	Aroclor-1242	84.6	UD	84.6	424	ug/kg
12672-29-6	Aroclor-1248	197	UD	197	424	ug/kg
11097-69-1	Aroclor-1254	68.1	UD	68.1	424	ug/kg
37324-23-5	Aroclor-1262	114	UD	114	424	ug/kg
11100-14-4	Aroclor-1268	85.6	UD	85.6	424	ug/kg
11096-82-5	Aroclor-1260	72.6	UD	72.6	424	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.5		32 - 144	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	27.5		32 - 175	138%	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PCBO-SOIL		SDG No.:	P4495	
Lab Sample ID:	P4495-19		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	1.03	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
PO107427.D	1	10/25/24 11:30	10/28/24 13:10	PB164405

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	98.7	U	98.7	495	ug/kg
11104-28-2	Aroclor-1221	18000	E	187	495	ug/kg
11141-16-5	Aroclor-1232	99.0	U	99.0	495	ug/kg
53469-21-9	Aroclor-1242	98.7	U	98.7	495	ug/kg
12672-29-6	Aroclor-1248	230	U	230	495	ug/kg
11097-69-1	Aroclor-1254	79.5	U	79.5	495	ug/kg
37324-23-5	Aroclor-1262	133	U	133	495	ug/kg
11100-14-4	Aroclor-1268	99.9	U	99.9	495	ug/kg
11096-82-5	Aroclor-1260	84.8	U	84.8	495	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.4		32 - 144	52%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		32 - 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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/21/24	
Project:	NJ Soil PT		Date Received:	10/23/24	
Client Sample ID:	PT-PCBO-SOILDL		SDG No.:	P4495	
Lab Sample ID:	P4495-19DL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	1.03	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
PO107434.D	5	10/25/24 11:30	10/28/24 15:52	PB164405

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	494	UD	494	2500	ug/kg
11104-28-2	Aroclor-1221	18000	D	933	2500	ug/kg
11141-16-5	Aroclor-1232	495	UD	495	2500	ug/kg
53469-21-9	Aroclor-1242	494	UD	494	2500	ug/kg
12672-29-6	Aroclor-1248	1100	UD	1100	2500	ug/kg
11097-69-1	Aroclor-1254	398	UD	398	2500	ug/kg
37324-23-5	Aroclor-1262	666	UD	666	2500	ug/kg
11100-14-4	Aroclor-1268	500	UD	500	2500	ug/kg
11096-82-5	Aroclor-1260	424	UD	424	2500	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.5		32 - 144	52%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		32 - 175	98%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



QC SUMMARY

Surrogate Summary

SDG No.: **P4495**

Client: **Chemtech Consulting Group**

Analytical Method: **8082A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PO107183.D	PIBLK-PO107183.D	Tetrachloro-m-xylene	1	20	22.5	112		60	140
		Decachlorobiphenyl	1	20	23.4	117		60	140
		Tetrachloro-m-xylene	2	20	22.1	110		60	140
		Decachlorobiphenyl	2	20	22.8	114		60	140
I.BLK-PO107374.D	PIBLK-PO107374.D	Tetrachloro-m-xylene	1	20	21.6	108		60	140
		Decachlorobiphenyl	1	20	21.7	108		60	140
		Tetrachloro-m-xylene	2	20	21.5	108		60	140
		Decachlorobiphenyl	2	20	21.8	109		60	140
PB164397BL	PB164397BL	Tetrachloro-m-xylene	1	20	22.4	112		32	144
		Decachlorobiphenyl	1	20	23.0	115		32	175
		Tetrachloro-m-xylene	2	20	22.1	110		32	144
		Decachlorobiphenyl	2	20	22.8	114		32	175
PB164397BS	PB164397BS	Tetrachloro-m-xylene	1	20	21.8	109		32	144
		Decachlorobiphenyl	1	20	22.4	112		32	175
		Tetrachloro-m-xylene	2	20	20.4	102		32	144
		Decachlorobiphenyl	2	20	22.3	112		32	175
P4495-18	PT-PCB-SOIL	Tetrachloro-m-xylene	1	20	27.1	136		32	144
		Decachlorobiphenyl	1	20	20.3	102		32	175
		Tetrachloro-m-xylene	2	20	18.3	92		32	144
		Decachlorobiphenyl	2	20	23.9	120		32	175
P4495-18DL	PT-PCB-SOILDL	Tetrachloro-m-xylene	1	20	19.5	98		32	144
		Decachlorobiphenyl	1	20	24.3	121		32	175
		Tetrachloro-m-xylene	2	20	18.3	91		32	144
		Decachlorobiphenyl	2	20	27.5	138		32	175
I.BLK-PO107386.D	PIBLK-PO107386.D	Tetrachloro-m-xylene	1	20	22.3	112		60	140
		Decachlorobiphenyl	1	20	22.6	113		60	140
		Tetrachloro-m-xylene	2	20	22.0	110		60	140
		Decachlorobiphenyl	2	20	22.8	114		60	140
P4531-01MS	OR-03-102424MS	Tetrachloro-m-xylene	1	20	16.7	84		32	144
		Decachlorobiphenyl	1	20	19.4	97		32	175
		Tetrachloro-m-xylene	2	20	19.3	96		32	144
		Decachlorobiphenyl	2	20	16.8	84		32	175
P4531-01MSD	OR-03-102424MSD	Tetrachloro-m-xylene	1	20	17.5	88		32	144
		Decachlorobiphenyl	1	20	19.5	97		32	175
		Tetrachloro-m-xylene	2	20	19.9	100		32	144
		Decachlorobiphenyl	2	20	16.1	81		32	175
I.BLK-PO107401.D	PIBLK-PO107401.D	Tetrachloro-m-xylene	1	20	22.1	111		60	140
		Decachlorobiphenyl	1	20	21.2	106		60	140
		Tetrachloro-m-xylene	2	20	22.0	110		60	140
		Decachlorobiphenyl	2	20	20.2	101		60	140
I.BLK-PO107414.D	PIBLK-PO107414.D	Tetrachloro-m-xylene	1	20	18.9	95		60	140

Surrogate Summary

SDG No.: **P4495**

Client: **Chemtech Consulting Group**

Analytical Method: **8082A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PO107414.D	PIBLK-PO107414.D	Decachlorobiphenyl	1	20	20.4	102		60	140
		Tetrachloro-m-xylene	2	20	19.6	98		60	140
I.BLK-PO107424.D	PIBLK-PO107424.D	Decachlorobiphenyl	2	20	20.6	103		60	140
		Tetrachloro-m-xylene	1	20	19.3	96		60	140
		Decachlorobiphenyl	1	20	20.2	101		60	140
		Tetrachloro-m-xylene	2	20	19.6	98		60	140
		Decachlorobiphenyl	2	20	19.6	98		60	140
		Tetrachloro-m-xylene	1	20	18.9	95		32	144
PB164405BL	PB164405BL	Decachlorobiphenyl	1	20	20.8	104		32	175
		Tetrachloro-m-xylene	2	20	19.4	97		32	144
		Decachlorobiphenyl	2	20	20.3	102		32	175
		Tetrachloro-m-xylene	1	20	19.1	95		32	144
PB164405BS	PB164405BS	Decachlorobiphenyl	1	20	20.3	102		32	175
		Tetrachloro-m-xylene	2	20	18.4	92		32	144
		Decachlorobiphenyl	2	20	19.9	99		32	175
		Tetrachloro-m-xylene	1	20	15.4	77		32	175
P4495-19	PT-PCBO-SOIL	Tetrachloro-m-xylene	2	20	9.16	46		32	144
		Decachlorobiphenyl	2	20	17.8	89		32	175
		Tetrachloro-m-xylene	1	20	10.5	52		32	144
		Decachlorobiphenyl	1	20	19.5	98		32	175
P4495-19DL	PT-PCBO-SOILDL	Tetrachloro-m-xylene	2	20	10.5	52		32	144
		Decachlorobiphenyl	2	20	18.4	92		32	175
		Tetrachloro-m-xylene	1	20	19.9	100		60	140
		Decachlorobiphenyl	1	20	20.5	103		60	140
I.BLK-PO107440.D	PIBLK-PO107440.D	Tetrachloro-m-xylene	2	20	20.5	103		60	140
		Decachlorobiphenyl	2	20	20.4	102		60	140

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8082A

DataFile : PO107390.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	OR-03-102424MS											
P4531-01MS	AR1016	176.3	0	170	ug/kg	96				55	146	
	AR1260	176.3	0	155	ug/kg	88				45	144	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8082A

DataFile : PO107391.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	OR-03-102424MSD											
P4531-01MSD	AR1016	176.4	0	173	ug/kg	98		2		55	146	20
	AR1260	176.4	0	157	ug/kg	89		1		45	144	20



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.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8082A Datafile : PO107376.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB164397BS	AR1016	166.5	160	ug/kg	96				71	120		
	AR1260	166.5	162	ug/kg	97				65	130		



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.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8082A Datafile : PO107426.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB164405BS	AR1016	4854	4300	ug/kg	89				71	120		
	AR1260	4854	4400	ug/kg	91				65	130		

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164397BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: PB164397BL

Lab File ID: PO107375.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 10/25/2024

Date Analyzed (1): 10/25/2024

Date Analyzed (2): 10/25/2024

Time Analyzed (1): 13:10

Time Analyzed (2): 13:10

Instrument ID (1): ECD_O

Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164397BS	PB164397BS	PO107376.D	10/25/2024	10/25/2024
PT-PCB-SOIL	P4495-18	PO107377.D	10/25/2024	10/25/2024
OR-03-102424MS	P4531-01MS	PO107390.D	10/25/2024	10/25/2024
OR-03-102424MSD	P4531-01MSD	PO107391.D	10/25/2024	10/25/2024

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164405BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: PB164405BL

Lab File ID: PO107425.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 10/25/2024

Date Analyzed (1): 10/28/2024

Date Analyzed (2): 10/28/2024

Time Analyzed (1): 12:34

Time Analyzed (2): 12:34

Instrument ID (1): ECD_O

Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164405BS	PB164405BS	PO107426.D	10/28/2024	10/28/2024
PT-PCBO-SOIL	P4495-19	PO107427.D	10/28/2024	10/28/2024

COMMENTS: _____



CALIBRATION SUMMARY

A
B
C
D
E
F
G

Calibration Times: 18:27 02:36

LAB FILE ID:	RT 1000 =	<u>PO107184.D</u>	RT 750 =	<u>PO107185.D</u>
	RT 500 =	PO107186.D	RT 250 =	PO107187.D
			RT 050 =	PO107188.D

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47

A
B
C
D
E
F
G

A
B
C
D
E
F
G

Calibration Times: 18:27 02:36

LAB FILE ID:	RT 1000 =	<u>PO107184.D</u>	RT 750 =	<u>PO107185.D</u>
	RT 500 =	PO107186.D	RT 250 =	PO107187.D
			RT 050 =	PO107188.D

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene	3.65	3.64	3.65	3.64	3.65	3.65	3.55	3.75

A

B

C

D

E

F

G

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: ECD_O

Calibration Date(s): 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

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

LAB FILE ID:		CF 1000 = <u>PO107184.D</u>		CF 750 = <u>PO107185.D</u>			
CF 500 = <u>PO107186.D</u>		CF 250 = <u>PO107187.D</u>		CF 050 = <u>PO107188.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	252081604	261702867	271939076	291118488	272229420	269814291 5
Aroclor-1016-2	(2)	373760062	383028583	397887352	419075308	410673320	396884925 5
Aroclor-1016-3	(3)	234678633	244145249	256575754	276405664	244042480	251169556 6
Aroclor-1016-4	(4)	185622493	193848624	202963902	215081552	165543020	192611918 10
Aroclor-1016-5	(5)	176326470	182141932	191487930	203514892	159796500	182653545 9
Aroclor-1260-1	(1)	238480871	246497651	259155974	277220676	271587560	258588546 6
Aroclor-1260-2	(2)	243402558	251747185	264083512	284216460	272650860	263220115 6
Aroclor-1260-3	(3)	167353086	171560129	181491762	195138068	183182660	179745141 6
Aroclor-1260-4	(4)	162125557	166999933	175289716	187582032	185522120	175503872 6
Aroclor-1260-5	(5)	268686175	273623828	283035894	299271412	297351500	284393762 5
Decachlorobiphenyl		2362750210	2427138920	2496479000	2603827440	2376686800	2453376474 4
Tetrachloro-m-xylene		8902656430	9087809293	9285762860	9548006280	8745262400	9113899453 3
Aroclor-1242-1	(1)	207947063	205572916	222208808	238956456	243522880	223641625 8
Aroclor-1242-2	(2)	302439626	299949616	323550412	342804408	348858880	323520588 7
Aroclor-1242-3	(3)	191912697	193178427	209638152	224306728	225847640	208976729 8
Aroclor-1242-4	(4)	150447174	145338196	162797508	173135964	168308740	160005516 7
Aroclor-1242-5	(5)	141009343	143408436	153689098	164623016	179679780	156481935 10
Decachlorobiphenyl		2339420350	2427742867	2492700840	2551827400	2426410200	2447620331 3
Tetrachloro-m-xylene		8860043620	8651743680	9146784160	9504075440	9174828800	9067495140 4
Aroclor-1248-1	(1)	155913014	164800668	175191332	184609772	188867720	173876501 8
Aroclor-1248-2	(2)	222845576	238202488	253637968	270074056	280366620	253025342 9
Aroclor-1248-3	(3)	231904923	246233752	259706092	274388212	266197800	255686156 7
Aroclor-1248-4	(4)	237210289	246633865	260533272	272872732	271860120	257822056 6
Aroclor-1248-5	(5)	236273499	246591072	260733536	276314120	280304600	260043365 7
Decachlorobiphenyl		2339780580	2371533013	2504089680	2566158680	2396701200	2435652631 4
Tetrachloro-m-xylene		8719403610	9119992693	9358904180	9492784200	8995773400	9137371617 3
Aroclor-1254-1	(1)	246822697	256579683	264992242	286189960	289157060	268748328 7
Aroclor-1254-2	(2)	348120894	361641555	373031238	401237980	402995760	377405485 6
Aroclor-1254-3	(3)	336293322	345653409	355909306	378498460	372630440	357796987 5
Aroclor-1254-4	(4)	213138598	220171503	227187688	242530220	244046960	229414994 6
Aroclor-1254-5	(5)	194609638	201069208	205869028	220139672	216546640	207646837 5
Decachlorobiphenyl		2357746210	2401897693	2508594000	2601578200	2359367400	2445836701 4
Tetrachloro-m-xylene		8883763230	9164627320	9184369060	9508828480	8791509400	9106619498 3
Aroclor-1268-1	(1)	351862425	352413819	364622844	381760528	369380480	364008019 3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	313096403	314491445	324862806	339637696	320299560	322477582	3
Aroclor-1268-3	(3)	272236453	272760276	282620036	293538700	275661940	279363481	3
Aroclor-1268-4	(4)	112236308	111261111	114714594	116428084	101458340	111219687	5
Aroclor-1268-5	(5)	836674479	833098204	847063314	864357444	781067560	832452200	4
Decachlorobiphenyl		4074190590	4136234160	4241958160	4399826360	4004084600	4171258774	4
Tetrachloro-m-xylene		9139601460	8935957933	9311606620	9495189880	8951901000	9166851379	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: ECD_O

Calibration Date(s): 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

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

LAB FILE ID:		CF 1000 = <u>PO107184.D</u>		CF 750 = <u>PO107185.D</u>			
CF 500 = <u>PO107186.D</u>		CF 250 = <u>PO107187.D</u>		CF 050 = <u>PO107188.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	98519363	99934743	102532802	106601384	108740020	103265662
Aroclor-1016-2	(2)	140533795	142751421	144315942	146877552	130360060	140967754
Aroclor-1016-3	(3)	75819146	77111448	78799028	81783348	80215260	78745646
Aroclor-1016-4	(4)	61532960	63413097	65607722	69564368	70423600	66108349
Aroclor-1016-5	(5)	78878086	80970861	83522668	86940988	80356660	82133853
Aroclor-1260-1	(1)	150450531	152030172	155131756	161942364	156218200	155154605
Aroclor-1260-2	(2)	173752920	181526657	184104290	189736236	151457920	176115605
Aroclor-1260-3	(3)	168454604	170292340	172108108	175991544	151894120	167748143
Aroclor-1260-4	(4)	143637024	144895129	147115166	150514212	137242140	144680734
Aroclor-1260-5	(5)	340738400	339782780	336796716	340391952	289493480	329440666
Decachlorobiphenyl		2730622670	2745732653	2784792900	2852828640	2594005000	2741596373
Tetrachloro-m-xylene		3312014480	3338472613	3349065240	3230716080	2862214000	3218496483
Aroclor-1242-1	(1)	80390662	80447493	83937762	87266896	86674240	83743411
Aroclor-1242-2	(2)	114487494	111266404	117741916	120667112	114031640	115638913
Aroclor-1242-3	(3)	61817452	60461905	64396992	66865868	63624080	63433259
Aroclor-1242-4	(4)	60582529	60636219	64384594	68045260	66598220	64049364
Aroclor-1242-5	(5)	73763103	75675432	77215916	80736528	80226620	77523520
Decachlorobiphenyl		2686985320	2764418280	2764436780	2798541920	2665265400	2735929540
Tetrachloro-m-xylene		3315724680	3241948653	3341198040	3335574400	2920075400	3230904235
Aroclor-1248-1	(1)	60218805	63038185	64879120	66667236	62402400	63441149
Aroclor-1248-2	(2)	85173308	89108361	93061950	96541480	93540340	91485088
Aroclor-1248-3	(3)	89257070	93226611	97377878	100891904	96212540	95393201
Aroclor-1248-4	(4)	105934439	110533117	114760412	117772688	111691080	112138347
Aroclor-1248-5	(5)	102828085	105359652	109801380	114217964	119140640	110269544
Decachlorobiphenyl		2669365810	2682497173	2791873700	2836714480	2679938000	2732077833
Tetrachloro-m-xylene		3278417600	3389239440	3425836480	3362184040	2965722400	3284279992
Aroclor-1254-1	(1)	159855276	163854537	165548332	171717704	162964860	164788142
Aroclor-1254-2	(2)	138468840	142269335	144546922	151325972	148203140	144962842
Aroclor-1254-3	(3)	227061110	231385951	232213406	238575248	218867080	229620559
Aroclor-1254-4	(4)	128242906	130249965	131325350	135207044	122091880	129423429
Aroclor-1254-5	(5)	191904554	195153152	195378104	201188864	171636600	191052255
Decachlorobiphenyl		2726927150	2738190720	2773447120	2836815760	2598739800	2734824110
Tetrachloro-m-xylene		3347799560	3397335627	3354246660	3362236280	2930639600	3278451545
Aroclor-1268-1	(1)	419191400	409991492	413863584	410849472	368955300	404570250

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	389672996	380096764	383518208	378699872	334345600	373266688	6
Aroclor-1268-3	(3)	345284332	337828173	339535756	338755760	307004380	333681680	5
Aroclor-1268-4	(4)	129107993	127445005	127285362	129260796	113749480	125369727	5
Aroclor-1268-5	(5)	1049237500	1019311260	1017080130	996315476	856840280	987756929	8
Decachlorobiphenyl		4873889790	4739451973	4823511780	4890043960	4430545400	4751488581	4
Tetrachloro-m-xylene		3440286630	3329771373	3416104800	3331345720	2963806400	3296262985	6

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: ECD_O Date(s) Analyzed: 10/15/2024 10/16/2024

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.57	4.47	4.67	110010000
		2	4.66	4.56	4.76	78836600
		3	4.73	4.63	4.83	234100000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.73	4.63	4.83	195844000
		2	5.26	5.16	5.36	103025000
		3	5.54	5.44	5.64	179001000
		4	5.70	5.60	5.80	90165400
		5	5.80	5.70	5.90	65903200
Aroclor-1262	500	1	7.74	7.64	7.84	245548000
		2	8.28	8.18	8.38	309420000
		3	8.59	8.49	8.69	209196000
		4	8.68	8.58	8.78	163066000
		5	9.32	9.22	9.42	102764000

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: ECD_O Date(s) Analyzed: 10/15/2024 10/16/2024

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.86	3.76	3.96	34895600
		2	3.94	3.84	4.04	26624800
		3	4.02	3.92	4.12	81218600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.02	3.92	4.12	67327000
		2	4.75	4.65	4.85	63205200
		3	4.92	4.82	5.02	34475000
		4	5.00	4.90	5.10	31466000
		5	5.18	5.08	5.28	33083400
Aroclor-1262	500	1	6.76	6.66	6.86	212876000
		2	7.26	7.16	7.36	363332000
		3	7.54	7.44	7.64	137384000
		4	7.61	7.51	7.71	264574000
		5	8.10	8.00	8.20	112833000



A
B
C
D
E
F
G

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

[illegible]



A
B
C
D
E
F
G

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

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: ECD_O

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 09:34 10:46

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

LAB FILE ID:		CF 1000 = <u>PO107415.D</u>		CF 750 = <u>PO107416.D</u>				
CF 500 = <u>PO107417.D</u>		CF 250 = <u>PO107418.D</u>		CF 050 = <u>PO107419.D</u>				
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1221-1	(1)	102622481	106822239	113506836	119050720	115590160	111518487	6
Aroclor-1221-2	(2)	73843311	77090631	82153862	87705808	88792760	81917274	8
Aroclor-1221-3	(3)	216166335	225272985	237676422	256699116	260633100	239289592	8
Decachlorobiphenyl		2202322900	2277801413	2398089540	2507915520	2399564800	2357138835	5
Tetrachloro-m-xylene		8923238900	9024945213	9308312800	9477694080	8794415000	9105721199	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: ECD_O

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 09:34 10:46

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

LAB FILE ID:		CF 1000 = <u>PO107415.D</u>		CF 750 = <u>PO107416.D</u>				
CF 500 = <u>PO107417.D</u>		CF 250 = <u>PO107418.D</u>		CF 050 = <u>PO107419.D</u>				
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1221-1	(1)	35576488	36433637	37744832	38678816	32784700	36243695	6
Aroclor-1221-2	(2)	27465164	28384011	29493154	30456612	29720220	29103832	4
Aroclor-1221-3	(3)	84083216	86892267	89808164	93083904	87343060	88242122	4
Decachlorobiphenyl		2643458700	2653627093	2771181340	2794463760	2500904400	2672727059	4
Tetrachloro-m-xylene		3369255270	3386064760	3396242860	3329085000	2853742400	3266878058	7

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: _____ Date(s) Analyzed: _____

GC Column: _____ ID: _____ (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
		1				
		2				
		3				
		4				
		5				

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 09:25 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 09:25 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.18	5.18	5.08	5.28	0.00
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL01 Date Analyzed: 10/25/2024

Lab Sample No.: AR1660CCC500 Data File : PO107370.D Time Analyzed: 09:25

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.523	5.423	5.623	527.200	500.000	5.4
Aroclor-1016-2	5.545	5.445	5.645	510.220	500.000	2.0
Aroclor-1016-3	5.608	5.507	5.707	494.160	500.000	-1.2
Aroclor-1016-4	5.705	5.604	5.804	514.300	500.000	2.9
Aroclor-1016-5	6.000	5.899	6.099	525.980	500.000	5.2
Aroclor-1260-1	7.126	7.026	7.226	489.010	500.000	-2.2
Aroclor-1260-2	7.383	7.282	7.482	517.380	500.000	3.5
Aroclor-1260-3	7.745	7.643	7.843	509.140	500.000	1.8
Aroclor-1260-4	7.969	7.868	8.068	518.330	500.000	3.7
Aroclor-1260-5	8.282	8.181	8.381	520.630	500.000	4.1
Decachlorobiphenyl	10.062	9.958	10.158	51.430	50.000	2.9
Tetrachloro-m-xylene	4.373	4.274	4.474	53.420	50.000	6.8

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL01 Date Analyzed: 10/25/2024

Lab Sample No.: AR1660CCC500 Data File : PO107370.D Time Analyzed: 09:25

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.725	4.626	4.826	554.800	500.000	11.0
Aroclor-1016-2	4.744	4.645	4.845	567.110	500.000	13.4
Aroclor-1016-3	4.920	4.821	5.021	535.260	500.000	7.1
Aroclor-1016-4	4.961	4.862	5.062	509.110	500.000	1.8
Aroclor-1016-5	5.175	5.076	5.276	542.290	500.000	8.5
Aroclor-1260-1	6.205	6.107	6.307	541.100	500.000	8.2
Aroclor-1260-2	6.393	6.294	6.494	576.430	500.000	15.3
Aroclor-1260-3	6.546	6.448	6.648	552.590	500.000	10.5
Aroclor-1260-4	7.016	6.918	7.118	536.970	500.000	7.4
Aroclor-1260-5	7.257	7.159	7.359	571.380	500.000	14.3
Decachlorobiphenyl	8.636	8.539	8.739	52.070	50.000	4.1
Tetrachloro-m-xylene	3.644	3.545	3.745	55.350	50.000	10.7

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 15:49 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 15:49 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.00
Aroclor-1016-2	(2)	4.75	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.18	5.18	5.08	5.28	0.00
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.65	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL02 Date Analyzed: 10/25/2024

Lab Sample No.: AR1660CCC500 Data File : PO107382.D Time Analyzed: 15:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.522	5.423	5.623	541.940	500.000	8.4
Aroclor-1016-2	5.544	5.445	5.645	534.490	500.000	6.9
Aroclor-1016-3	5.606	5.507	5.707	524.670	500.000	4.9
Aroclor-1016-4	5.704	5.604	5.804	550.740	500.000	10.1
Aroclor-1016-5	5.998	5.899	6.099	549.630	500.000	9.9
Aroclor-1260-1	7.125	7.026	7.226	524.670	500.000	4.9
Aroclor-1260-2	7.382	7.282	7.482	536.310	500.000	7.3
Aroclor-1260-3	7.743	7.643	7.843	515.030	500.000	3.0
Aroclor-1260-4	7.968	7.868	8.068	522.860	500.000	4.6
Aroclor-1260-5	8.281	8.181	8.381	527.620	500.000	5.5
Decachlorobiphenyl	10.061	9.958	10.158	52.130	50.000	4.3
Tetrachloro-m-xylene	4.373	4.274	4.474	55.320	50.000	10.6

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL02 Date Analyzed: 10/25/2024

Lab Sample No.: AR1660CCC500 Data File : PO107382.D Time Analyzed: 15:49

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.726	4.626	4.826	553.460	500.000	10.7
Aroclor-1016-2	4.745	4.645	4.845	567.100	500.000	13.4
Aroclor-1016-3	4.921	4.821	5.021	533.360	500.000	6.7
Aroclor-1016-4	4.962	4.862	5.062	510.120	500.000	2.0
Aroclor-1016-5	5.175	5.076	5.276	544.660	500.000	8.9
Aroclor-1260-1	6.206	6.107	6.307	548.980	500.000	9.8
Aroclor-1260-2	6.393	6.294	6.494	584.550	500.000	16.9
Aroclor-1260-3	6.547	6.448	6.648	558.400	500.000	11.7
Aroclor-1260-4	7.017	6.918	7.118	558.220	500.000	11.6
Aroclor-1260-5	7.257	7.159	7.359	591.990	500.000	18.4
Decachlorobiphenyl	8.638	8.539	8.739	53.990	50.000	8.0
Tetrachloro-m-xylene	3.645	3.545	3.745	55.010	50.000	10.0

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 20:48 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/25/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 20:48 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.18	5.18	5.08	5.28	0.00
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL03 Date Analyzed: 10/25/2024

Lab Sample No.: AR1660CCC500 Data File : PO107397.D Time Analyzed: 20:48

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.521	5.423	5.623	494.170	500.000	-1.2
Aroclor-1016-2	5.543	5.445	5.645	479.380	500.000	-4.1
Aroclor-1016-3	5.606	5.507	5.707	461.860	500.000	-7.6
Aroclor-1016-4	5.703	5.604	5.804	477.250	500.000	-4.6
Aroclor-1016-5	5.998	5.899	6.099	475.790	500.000	-4.8
Aroclor-1260-1	7.125	7.026	7.226	485.380	500.000	-2.9
Aroclor-1260-2	7.382	7.282	7.482	484.810	500.000	-3.0
Aroclor-1260-3	7.744	7.643	7.843	458.270	500.000	-8.3
Aroclor-1260-4	7.968	7.868	8.068	467.110	500.000	-6.6
Aroclor-1260-5	8.281	8.181	8.381	484.470	500.000	-3.1
Decachlorobiphenyl	10.061	9.958	10.158	50.240	50.000	0.5
Tetrachloro-m-xylene	4.372	4.274	4.474	52.530	50.000	5.1

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL03 Date Analyzed: 10/25/2024

Lab Sample No.: AR1660CCC500 Data File : PO107397.D Time Analyzed: 20:48

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.725	4.626	4.826	537.990	500.000	7.6
Aroclor-1016-2	4.744	4.645	4.845	546.030	500.000	9.2
Aroclor-1016-3	4.920	4.821	5.021	516.060	500.000	3.2
Aroclor-1016-4	4.961	4.862	5.062	492.570	500.000	-1.5
Aroclor-1016-5	5.175	5.076	5.276	524.530	500.000	4.9
Aroclor-1260-1	6.206	6.107	6.307	496.750	500.000	-0.7
Aroclor-1260-2	6.393	6.294	6.494	527.570	500.000	5.5
Aroclor-1260-3	6.546	6.448	6.648	500.040	500.000	0.0
Aroclor-1260-4	7.017	6.918	7.118	488.580	500.000	-2.3
Aroclor-1260-5	7.258	7.159	7.359	504.820	500.000	1.0
Decachlorobiphenyl	8.637	8.539	8.739	47.900	50.000	-4.2
Tetrachloro-m-xylene	3.644	3.545	3.745	52.630	50.000	5.3

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 11:22 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.60	5.61	5.51	5.71	0.01
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.05	10.06	9.96	10.16	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 11:22 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL01 Date Analyzed: 10/28/2024

Lab Sample No.: AR1660CCC500 Data File : PO107421.D Time Analyzed: 11:22

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.519	5.423	5.623	467.400	500.000	-6.5
Aroclor-1016-2	5.542	5.445	5.645	458.050	500.000	-8.4
Aroclor-1016-3	5.604	5.507	5.707	455.130	500.000	-9.0
Aroclor-1016-4	5.701	5.604	5.804	473.820	500.000	-5.2
Aroclor-1016-5	5.996	5.899	6.099	478.100	500.000	-4.4
Aroclor-1260-1	7.124	7.026	7.226	463.460	500.000	-7.3
Aroclor-1260-2	7.379	7.282	7.482	471.410	500.000	-5.7
Aroclor-1260-3	7.741	7.643	7.843	454.480	500.000	-9.1
Aroclor-1260-4	7.965	7.868	8.068	438.720	500.000	-12.3
Aroclor-1260-5	8.278	8.181	8.381	474.790	500.000	-5.0
Decachlorobiphenyl	10.054	9.958	10.158	46.260	50.000	-7.5
Tetrachloro-m-xylene	4.371	4.274	4.474	47.030	50.000	-5.9

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL01 Date Analyzed: 10/28/2024

Lab Sample No.: AR1660CCC500 Data File : PO107421.D Time Analyzed: 11:22

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	512.280	500.000	2.5
Aroclor-1016-2	4.743	4.645	4.845	516.410	500.000	3.3
Aroclor-1016-3	4.919	4.821	5.021	495.570	500.000	-0.9
Aroclor-1016-4	4.960	4.862	5.062	477.890	500.000	-4.4
Aroclor-1016-5	5.173	5.076	5.276	501.090	500.000	0.2
Aroclor-1260-1	6.204	6.107	6.307	494.270	500.000	-1.1
Aroclor-1260-2	6.391	6.294	6.494	526.580	500.000	5.3
Aroclor-1260-3	6.544	6.448	6.648	502.020	500.000	0.4
Aroclor-1260-4	7.015	6.918	7.118	495.390	500.000	-0.9
Aroclor-1260-5	7.255	7.159	7.359	527.980	500.000	5.6
Decachlorobiphenyl	8.634	8.539	8.739	47.340	50.000	-5.3
Tetrachloro-m-xylene	3.643	3.545	3.745	49.980	50.000	0.0

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 11:40 Initial Calibration Time(s): 09:34 10:46

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1221-1 (1)	4.57	4.57	4.47	4.67	0.00
Aroclor-1221-2 (2)	4.66	4.66	4.56	4.76	0.00
Aroclor-1221-3 (3)	4.73	4.73	4.63	4.83	0.00
Tetrachloro-m-xylene	4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl	10.06	10.06	9.96	10.16	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 11:40 Initial Calibration Time(s): 09:34 10:46

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1221-1 (1)	3.86	3.86	3.76	3.96	0.00
Aroclor-1221-2 (2)	3.94	3.94	3.84	4.04	0.00
Aroclor-1221-3 (3)	4.02	4.02	3.92	4.12	0.00
Tetrachloro-m-xylene	3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl	8.63	8.63	8.53	8.73	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL05 Date Analyzed: 10/28/2024

Lab Sample No.: AR1221CCC500 Data File : PO107422.D Time Analyzed: 11:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1221-1	4.570	4.471	4.671	514.430	500.000	2.9
Aroclor-1221-2	4.655	4.556	4.756	510.810	500.000	2.2
Aroclor-1221-3	4.730	4.631	4.831	505.190	500.000	1.0
Decachlorobiphenyl	10.056	9.957	10.157	48.770	50.000	-2.5
Tetrachloro-m-xylene	4.371	4.271	4.471	51.410	50.000	2.8

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL05 Date Analyzed: 10/28/2024

Lab Sample No.: AR1221CCC500 Data File : PO107422.D Time Analyzed: 11:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1221-1	3.855	3.755	3.955	527.140	500.000	5.4
Aroclor-1221-2	3.940	3.840	4.040	513.260	500.000	2.7
Aroclor-1221-3	4.016	3.916	4.116	511.520	500.000	2.3
Decachlorobiphenyl	8.634	8.534	8.734	50.130	50.000	0.3
Tetrachloro-m-xylene	3.643	3.543	3.743	52.970	50.000	5.9

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 16:10 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.60	5.61	5.51	5.71	0.01
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/15/2024 10/16/2024

Continuing Calib Time: 16:10 Initial Calibration Time(s): 18:27 02:36

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.01	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL02 Date Analyzed: 10/28/2024

Lab Sample No.: AR1660CCC500 Data File : PO107435.D Time Analyzed: 16:10

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.519	5.423	5.623	480.930	500.000	-3.8
Aroclor-1016-2	5.542	5.445	5.645	469.040	500.000	-6.2
Aroclor-1016-3	5.604	5.507	5.707	469.220	500.000	-6.2
Aroclor-1016-4	5.701	5.604	5.804	488.600	500.000	-2.3
Aroclor-1016-5	5.996	5.899	6.099	484.120	500.000	-3.2
Aroclor-1260-1	7.123	7.026	7.226	459.280	500.000	-8.1
Aroclor-1260-2	7.379	7.282	7.482	476.130	500.000	-4.8
Aroclor-1260-3	7.741	7.643	7.843	470.430	500.000	-5.9
Aroclor-1260-4	7.965	7.868	8.068	465.450	500.000	-6.9
Aroclor-1260-5	8.277	8.181	8.381	480.940	500.000	-3.8
Decachlorobiphenyl	10.055	9.958	10.158	47.620	50.000	-4.8
Tetrachloro-m-xylene	4.371	4.274	4.474	47.610	50.000	-4.8

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/15/2024 10/15/2024

Client Sample No.: CCAL02 Date Analyzed: 10/28/2024

Lab Sample No.: AR1660CCC500 Data File : PO107435.D Time Analyzed: 16:10

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.724	4.626	4.826	523.860	500.000	4.8
Aroclor-1016-2	4.743	4.645	4.845	530.430	500.000	6.1
Aroclor-1016-3	4.919	4.821	5.021	508.190	500.000	1.6
Aroclor-1016-4	4.960	4.862	5.062	491.260	500.000	-1.7
Aroclor-1016-5	5.173	5.076	5.276	531.290	500.000	6.3
Aroclor-1260-1	6.204	6.107	6.307	493.890	500.000	-1.2
Aroclor-1260-2	6.390	6.294	6.494	525.730	500.000	5.1
Aroclor-1260-3	6.544	6.448	6.648	507.540	500.000	1.5
Aroclor-1260-4	7.014	6.918	7.118	492.640	500.000	-1.5
Aroclor-1260-5	7.255	7.159	7.359	527.570	500.000	5.5
Decachlorobiphenyl	8.634	8.539	8.739	48.670	50.000	-2.7
Tetrachloro-m-xylene	3.643	3.545	3.745	51.710	50.000	3.4

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 16:28 Initial Calibration Time(s): 09:34 10:46

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1221-1 (1)	4.57	4.57	4.47	4.67	0.00
Aroclor-1221-2 (2)	4.66	4.66	4.56	4.76	0.00
Aroclor-1221-3 (3)	4.73	4.73	4.63	4.83	0.00
Tetrachloro-m-xylene	4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl	10.06	10.06	9.96	10.16	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 10/28/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 16:28 Initial Calibration Time(s): 09:34 10:46

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Aroclor-1221-1 (1)	3.86	3.86	3.76	3.96	0.00
Aroclor-1221-2 (2)	3.94	3.94	3.84	4.04	0.00
Aroclor-1221-3 (3)	4.02	4.02	3.92	4.12	0.00
Tetrachloro-m-xylene	3.64	3.64	3.54	3.74	0.00
Decachlorobiphenyl	8.63	8.63	8.53	8.73	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL07 Date Analyzed: 10/28/2024

Lab Sample No.: AR1221CCC500 Data File : PO107436.D Time Analyzed: 16:28

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1221-1	4.570	4.471	4.671	520.880	500.000	4.2
Aroclor-1221-2	4.655	4.556	4.756	510.950	500.000	2.2
Aroclor-1221-3	4.730	4.631	4.831	507.540	500.000	1.5
Decachlorobiphenyl	10.056	9.957	10.157	49.600	50.000	-0.8
Tetrachloro-m-xylene	4.371	4.271	4.471	52.200	50.000	4.4

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL07 Date Analyzed: 10/28/2024

Lab Sample No.: AR1221CCC500 Data File : PO107436.D Time Analyzed: 16:28

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1221-1	3.855	3.755	3.955	536.640	500.000	7.3
Aroclor-1221-2	3.941	3.840	4.040	516.940	500.000	3.4
Aroclor-1221-3	4.016	3.916	4.116	520.110	500.000	4.0
Decachlorobiphenyl	8.634	8.534	8.734	51.110	50.000	2.2
Tetrachloro-m-xylene	3.643	3.543	3.743	53.610	50.000	7.2

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: ECD_O

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/15/2024

10/15/2024

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 #
IBLK	IBLK	10/15/2024	18:08	PO107183.D	10.06	4.37
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	10.06	4.37
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	10.06	4.37
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	10.06	4.37
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	10.06	4.37
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	10.06	4.37
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	10.06	4.37
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	10.06	4.37
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	10.06	4.37
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	10.06	4.37
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	10.06	4.37
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	10.06	4.37
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	10.06	4.37
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	10.06	4.37
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	10.06	4.37
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	10.06	4.37
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	10.06	4.37
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	10.06	4.37
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	10.06	4.37
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	10.06	4.37
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	10.06	4.37
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	10.06	4.37
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	10.06	4.37
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	10.06	4.37
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	10.06	4.37
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	10.06	4.37
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	10.06	4.37
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	10.06	4.37
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/25/2024	09:25	PO107370.D	10.06	4.37
IBLK	IBLK	10/25/2024	10:59	PO107374.D	10.06	4.37
PB164397BL	PB164397BL	10/25/2024	13:10	PO107375.D	10.06	4.37
PB164397BS	PB164397BS	10/25/2024	13:28	PO107376.D	10.06	4.37
PT-PCB-SOIL	P4495-18	10/25/2024	13:46	PO107377.D	10.06	4.37
PT-PCB-SOILDL	P4495-18DL	10/25/2024	15:16	PO107381.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/25/2024	15:49	PO107382.D	10.06	4.37
IBLK	IBLK	10/25/2024	17:01	PO107386.D	10.06	4.37
OR-03-102424MS	P4531-01MS	10/25/2024	18:13	PO107390.D	10.06	4.37
OR-03-102424MSD	P4531-01MSD	10/25/2024	18:31	PO107391.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/25/2024	20:48	PO107397.D	10.06	4.37
IBLK	IBLK	10/25/2024	22:01	PO107401.D	10.06	4.37
IBLK	IBLK	10/28/2024	09:16	PO107414.D	10.06	4.37

Analytical Sequence

AR1221ICC1000	AR1221ICC1000	10/28/2024	09:34	PO107415.D	10.06	4.37
AR1221ICC750	AR1221ICC750	10/28/2024	09:52	PO107416.D	10.06	4.37
AR1221ICC500	AR1221ICC500	10/28/2024	10:10	PO107417.D	10.06	4.37
AR1221ICC250	AR1221ICC250	10/28/2024	10:28	PO107418.D	10.06	4.37
AR1221ICC050	AR1221ICC050	10/28/2024	10:46	PO107419.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/28/2024	11:22	PO107421.D	10.05	4.37
AR1221CCC500	AR1221CCC500	10/28/2024	11:40	PO107422.D	10.06	4.37
LBLK	LBLK	10/28/2024	12:16	PO107424.D	10.05	4.37
PB164405BL	PB164405BL	10/28/2024	12:34	PO107425.D	10.05	4.37
PB164405BS	PB164405BS	10/28/2024	12:52	PO107426.D	10.06	4.37
PT-PCBO-SOIL	P4495-19	10/28/2024	13:10	PO107427.D	10.06	4.38
PT-PCBO-SOILDL	P4495-19DL	10/28/2024	15:52	PO107434.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/28/2024	16:10	PO107435.D	10.06	4.37
AR1221CCC500	AR1221CCC500	10/28/2024	16:28	PO107436.D	10.06	4.37
LBLK	LBLK	10/28/2024	17:40	PO107440.D	10.06	4.37

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: ECD_O

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/15/2024

10/15/2024

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 #
IBLK	IBLK	10/15/2024	18:08	PO107183.D	8.64	3.64
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	8.64	3.64
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	8.64	3.64
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	8.64	3.65
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	8.64	3.64
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	8.64	3.64
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	8.64	3.64
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	8.64	3.64
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	8.64	3.64
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	8.64	3.64
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	8.64	3.64
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	8.64	3.65
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	8.64	3.64
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	8.64	3.64
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	8.64	3.64
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	8.64	3.64
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	8.64	3.64
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	8.64	3.64
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	8.64	3.65
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	8.64	3.64
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	8.64	3.64
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	8.64	3.64
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	8.64	3.65
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	8.64	3.64
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	8.64	3.65
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	8.64	3.64
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	8.64	3.65
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	8.64	3.64
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/25/2024	09:25	PO107370.D	8.64	3.64
IBLK	IBLK	10/25/2024	10:59	PO107374.D	8.64	3.64
PB164397BL	PB164397BL	10/25/2024	13:10	PO107375.D	8.64	3.64
PB164397BS	PB164397BS	10/25/2024	13:28	PO107376.D	8.64	3.64
PT-PCB-SOIL	P4495-18	10/25/2024	13:46	PO107377.D	8.64	3.64
PT-PCB-SOILDL	P4495-18DL	10/25/2024	15:16	PO107381.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/25/2024	15:49	PO107382.D	8.64	3.65
IBLK	IBLK	10/25/2024	17:01	PO107386.D	8.64	3.64
OR-03-102424MS	P4531-01MS	10/25/2024	18:13	PO107390.D	8.64	3.64
OR-03-102424MSD	P4531-01MSD	10/25/2024	18:31	PO107391.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/25/2024	20:48	PO107397.D	8.64	3.64
IBLK	IBLK	10/25/2024	22:01	PO107401.D	8.64	3.64
IBLK	IBLK	10/28/2024	09:16	PO107414.D	8.64	3.64

Analytical Sequence

AR1221ICC1000	AR1221ICC1000	10/28/2024	09:34	PO107415.D	8.64	3.64
AR1221ICC750	AR1221ICC750	10/28/2024	09:52	PO107416.D	8.63	3.64
AR1221ICC500	AR1221ICC500	10/28/2024	10:10	PO107417.D	8.63	3.64
AR1221ICC250	AR1221ICC250	10/28/2024	10:28	PO107418.D	8.64	3.64
AR1221ICC050	AR1221ICC050	10/28/2024	10:46	PO107419.D	8.64	3.64
AR1660CCC500	AR1660CCC500	10/28/2024	11:22	PO107421.D	8.63	3.64
AR1221CCC500	AR1221CCC500	10/28/2024	11:40	PO107422.D	8.63	3.64
LBLK	LBLK	10/28/2024	12:16	PO107424.D	8.63	3.64
PB164405BL	PB164405BL	10/28/2024	12:34	PO107425.D	8.63	3.64
PB164405BS	PB164405BS	10/28/2024	12:52	PO107426.D	8.64	3.64
PT-PCBO-SOIL	P4495-19	10/28/2024	13:10	PO107427.D	8.64	3.65
PT-PCBO-SOILDL	P4495-19DL	10/28/2024	15:52	PO107434.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/28/2024	16:10	PO107435.D	8.63	3.64
AR1221CCC500	AR1221CCC500	10/28/2024	16:28	PO107436.D	8.63	3.64
LBLK	LBLK	10/28/2024	17:40	PO107440.D	8.63	3.64



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164397BL		SDG No.:	P4495	
Lab Sample ID:	PB164397BL		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
PO107375.D	1	10/25/24 09:40	10/25/24 13:10	PB164397

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	22.4		32 - 144	112%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.0		32 - 175	115%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164405BL		SDG No.:	P4495	
Lab Sample ID:	PB164405BL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	1.02	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
PO107425.D	1	10/25/24 11:30	10/28/24 12:34	PB164405

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	99.7	U	99.7	500	ug/kg
11104-28-2	Aroclor-1221	189	U	189	500	ug/kg
11141-16-5	Aroclor-1232	100	U	100	500	ug/kg
53469-21-9	Aroclor-1242	99.7	U	99.7	500	ug/kg
12672-29-6	Aroclor-1248	232	U	232	500	ug/kg
11097-69-1	Aroclor-1254	80.3	U	80.3	500	ug/kg
37324-23-5	Aroclor-1262	134	U	134	500	ug/kg
11100-14-4	Aroclor-1268	101	U	101	500	ug/kg
11096-82-5	Aroclor-1260	85.6	U	85.6	500	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		32 - 144	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.8		32 - 175	104%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/15/24	
Project:	NJ Soil PT		Date Received:	10/15/24	
Client Sample ID:	PIBLK-PO107183.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PO107183.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
PO107183.D	1		10/15/24	po101524

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	22.1		60 - 140	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		60 - 140	114%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/25/24	
Project:	NJ Soil PT		Date Received:	10/25/24	
Client Sample ID:	PIBLK-PO107374.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PO107374.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
PO107374.D	1		10/25/24	PO102524

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	21.5		60 - 140	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.7		60 - 140	108%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/25/24	
Project:	NJ Soil PT		Date Received:	10/25/24	
Client Sample ID:	PIBLK-PO107386.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PO107386.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
PO107386.D	1		10/25/24	PO102524

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	22.0		60 - 140	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.6		60 - 140	113%	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/25/24	
Project:	NJ Soil PT		Date Received:	10/25/24	
Client Sample ID:	PIBLK-PO107401.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PO107401.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
PO107401.D	1		10/25/24	PO102524

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	22.0		60 - 140	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		60 - 140	101%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/28/24	
Project:	NJ Soil PT		Date Received:	10/28/24	
Client Sample ID:	PIBLK-PO107414.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PO107414.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
PO107414.D	1		10/28/24	PO102824

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	18.9		60 - 140	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		60 - 140	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/28/24	
Project:	NJ Soil PT		Date Received:	10/28/24	
Client Sample ID:	PIBLK-PO107424.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PO107424.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
PO107424.D	1		10/28/24	PO102824

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	19.3		60 - 140	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.6		60 - 140	98%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/28/24	
Project:	NJ Soil PT		Date Received:	10/28/24	
Client Sample ID:	PIBLK-PO107440.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PO107440.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
PO107440.D	1		10/28/24	po102824

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	19.9		60 - 140	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		60 - 140	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164397BS		SDG No.:	P4495	
Lab Sample ID:	PB164397BS		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	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
PO107376.D	1	10/25/24 09:40	10/25/24 13:28	PB164397

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	160		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	162		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.8		32 - 144	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.4		32 - 175	112%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164405BS		SDG No.:	P4495	
Lab Sample ID:	PB164405BS		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	1.03	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
PO107426.D	1	10/25/24 11:30	10/28/24 12:52	PB164405

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4300		98.7	495	ug/kg
11104-28-2	Aroclor-1221	187	U	187	495	ug/kg
11141-16-5	Aroclor-1232	99.0	U	99.0	495	ug/kg
53469-21-9	Aroclor-1242	98.7	U	98.7	495	ug/kg
12672-29-6	Aroclor-1248	230	U	230	495	ug/kg
11097-69-1	Aroclor-1254	79.5	U	79.5	495	ug/kg
37324-23-5	Aroclor-1262	133	U	133	495	ug/kg
11100-14-4	Aroclor-1268	99.9	U	99.9	495	ug/kg
11096-82-5	Aroclor-1260	4400		84.8	495	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.1		32 - 144	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.3		32 - 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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	OR-03-102424MS	SDG No.:	P4495
Lab Sample ID:	P4531-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	94.3
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
PO107390.D	1	10/25/24 09:40	10/25/24 18:13	PB164397

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	170		3.60	18.0	ug/kg
11104-28-2	Aroclor-1221	6.80	U	6.80	18.0	ug/kg
11141-16-5	Aroclor-1232	3.60	U	3.60	18.0	ug/kg
53469-21-9	Aroclor-1242	3.60	U	3.60	18.0	ug/kg
12672-29-6	Aroclor-1248	8.30	U	8.30	18.0	ug/kg
11097-69-1	Aroclor-1254	2.90	U	2.90	18.0	ug/kg
37324-23-5	Aroclor-1262	4.80	U	4.80	18.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	18.0	ug/kg
11096-82-5	Aroclor-1260	155		3.10	18.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.3		32 - 144	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.4		32 - 175	97%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	OR-03-102424MSD	SDG No.:	P4495
Lab Sample ID:	P4531-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	94.3
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
PO107391.D	1	10/25/24 09:40	10/25/24 18:31	PB164397

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	173		3.60	18.0	ug/kg
11104-28-2	Aroclor-1221	6.80	U	6.80	18.0	ug/kg
11141-16-5	Aroclor-1232	3.60	U	3.60	18.0	ug/kg
53469-21-9	Aroclor-1242	3.60	U	3.60	18.0	ug/kg
12672-29-6	Aroclor-1248	8.40	U	8.40	18.0	ug/kg
11097-69-1	Aroclor-1254	2.90	U	2.90	18.0	ug/kg
37324-23-5	Aroclor-1262	4.80	U	4.80	18.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	18.0	ug/kg
11096-82-5	Aroclor-1260	157		3.10	18.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		32 - 175	97%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-10	PT-MET-SOIL	SOIL			10/21/24			10/23/24
			Mercury	7471B		10/30/24	10/31/24	
			Metals ICP-Group1	6010D		11/26/24	11/27/24	
			Metals ICP-Group1	6010D		11/26/24	12/04/24	

Hit Summary Sheet
SW-846

SDG No.: P4495

Order ID: P4495

Client: Chemtech Consulting Group

Project ID: NJ Soil PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	PT-MET-SOIL							
P4495-10	PT-MET-SOIL	SOIL	Aluminum	10700		2.14	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Antimony	50.3		0.13	2.22	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Arsenic	83.2		0.26	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Barium	265		0.57	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Beryllium	139	D	0.11	2.67	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Boron	308		0.70	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Cadmium	73.5		0.014	0.27	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Calcium	5000		2.49	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Chromium	283	D	0.24	2.22	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Cobalt	101		0.052	1.33	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Copper	229		0.42	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Iron	10400		2.39	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Lead	181		0.13	0.53	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Magnesium	6900		3.05	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Manganese	896		0.063	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Mercury	21.8	D	0.29	0.65	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Nickel	95.8		0.080	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Potassium	8040		25.5	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Selenium	164		0.29	0.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Silicon	430		3.64	17.8	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Silver	29.2		0.046	0.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Sulfur	409		0.30	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Sodium	8990		32.1	88.9	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Strontium	231		0.22	8.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Lithium	629	D	0.17	4.44	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Thallium	175		0.39	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Tin	73.7		0.15	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Titanium	350	D	0.98	8.89	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Vanadium	213		0.24	1.78	mg/Kg
P4495-10	PT-MET-SOIL	SOIL	Zinc	267		0.098	1.78	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-MET-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10700		1	2.14	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-36-0	Antimony	50.3		1	0.13	2.22	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-38-2	Arsenic	83.2		1	0.26	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-39-3	Barium	265		1	0.57	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-41-7	Beryllium	139	D	10	0.11	2.67	mg/Kg	11/26/24 12:45	12/04/24 14:33	SW6010	SW3050
7440-42-8	Boron	308		1	0.70	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-43-9	Cadmium	73.5		1	0.014	0.27	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-70-2	Calcium	5000		1	2.49	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-47-3	Chromium	283	D	5	0.24	2.22	mg/Kg	11/26/24 12:45	11/27/24 15:07	SW6010	SW3050
7440-48-4	Cobalt	101		1	0.052	1.33	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-50-8	Copper	229		1	0.42	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-89-6	Iron	10400		1	2.39	4.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-92-1	Lead	181		1	0.13	0.53	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-93-2	Lithium	629	D	5	0.17	4.44	mg/Kg	11/26/24 12:45	11/27/24 15:07	SW6010	SW3050
7439-95-4	Magnesium	6900		1	3.05	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-96-5	Manganese	896		1	0.063	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7439-97-6	Mercury	21.8	D	50	0.29	0.65	mg/Kg	10/30/24 16:50	10/31/24 12:00	SW7471B	
7440-02-0	Nickel	95.8		1	0.080	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-09-7	Potassium	8040		1	25.5	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7782-49-2	Selenium	164		1	0.29	0.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-21-3	Silicon	430		1	3.64	17.8	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-22-4	Silver	29.2		1	0.046	0.44	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-23-5	Sodium	8990		1	32.1	88.9	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-24-6	Strontium	231		1	0.22	8.89	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7704-34-9	Sulfur	409		1	0.30	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-28-0	Thallium	175		1	0.39	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-31-5	Tin	73.7		1	0.15	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-32-6	Titanium	350	D	5	0.98	8.89	mg/Kg	11/26/24 12:45	11/27/24 15:07	SW6010	SW3050
7440-62-2	Vanadium	213		1	0.24	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050
7440-66-6	Zinc	267		1	0.098	1.78	mg/Kg	11/26/24 12:45	11/27/24 14:52	SW6010	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	Mercury			

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



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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
ICV61	Mercury	3.77	4.0	94	90 - 110	CV	10/31/2024	10:21	LB133227

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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
CCV04	Mercury	4.88	5.0	98	90 - 110	CV	10/31/2024	10:25	LB133227
CCV05	Mercury	4.92	5.0	98	90 - 110	CV	10/31/2024	10:56	LB133227
CCV06	Mercury	4.95	5.0	99	90 - 110	CV	10/31/2024	11:26	LB133227
CCV07	Mercury	4.93	5.0	99	90 - 110	CV	10/31/2024	12:02	LB133227

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	2690	2500	108	90 - 110	P	11/27/2024	12:25	LB133669
	Antimony	1030	1000	103	90 - 110	P	11/27/2024	12:25	LB133669
	Arsenic	1040	1000	104	90 - 110	P	11/27/2024	12:25	LB133669
	Barium	546	520	105	90 - 110	P	11/27/2024	12:25	LB133669
	Beryllium	516	510	101	90 - 110	P	11/27/2024	12:25	LB133669
	Boron	2510	2500	100	90 - 110	P	11/27/2024	12:25	LB133669
	Cadmium	514	510	101	90 - 110	P	11/27/2024	12:25	LB133669
	Calcium	10400	10000	104	90 - 110	P	11/27/2024	12:25	LB133669
	Chromium	528	520	102	90 - 110	P	11/27/2024	12:25	LB133669
	Cobalt	518	520	100	90 - 110	P	11/27/2024	12:25	LB133669
	Copper	532	510	104	90 - 110	P	11/27/2024	12:25	LB133669
	Iron	9930	10000	99	90 - 110	P	11/27/2024	12:25	LB133669
	Lead	1020	1000	102	90 - 110	P	11/27/2024	12:25	LB133669
	Lithium	2380	2500	95	90 - 110	P	11/27/2024	12:25	LB133669
	Magnesium	6080	6000	101	90 - 110	P	11/27/2024	12:25	LB133669
	Manganese	533	520	103	90 - 110	P	11/27/2024	12:25	LB133669
	Nickel	520	530	98	90 - 110	P	11/27/2024	12:25	LB133669
	Potassium	10100	9900	102	90 - 110	P	11/27/2024	12:25	LB133669
	Selenium	1080	1000	108	90 - 110	P	11/27/2024	12:25	LB133669
	Silicon	2460	2500	98	90 - 110	P	11/27/2024	12:25	LB133669
	Silver	255	250	102	90 - 110	P	11/27/2024	12:25	LB133669
	Sodium	9690	10000	97	90 - 110	P	11/27/2024	12:25	LB133669
	Strontium	2440	2500	98	90 - 110	P	11/27/2024	12:25	LB133669
	Sulfur	2340	2500	93	90 - 110	P	11/27/2024	12:25	LB133669
	Thallium	1080	1000	108	90 - 110	P	11/27/2024	12:25	LB133669
	Tin	2490	2500	100	90 - 110	P	11/27/2024	12:25	LB133669
	Titanium	2610	2500	104	90 - 110	P	11/27/2024	12:25	LB133669
	Vanadium	522	500	104	90 - 110	P	11/27/2024	12:25	LB133669
	Zinc	1060	1000	106	90 - 110	P	11/27/2024	12:25	LB133669

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	106	100	106	80 - 120	P	11/27/2024	12:38	LB133669
	Antimony	51.0	50.0	102	80 - 120	P	11/27/2024	12:38	LB133669
	Arsenic	21.9	20.0	109	80 - 120	P	11/27/2024	12:38	LB133669
	Barium	99.6	100	100	80 - 120	P	11/27/2024	12:38	LB133669
	Beryllium	5.87	6.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Boron	104	100	104	80 - 120	P	11/27/2024	12:38	LB133669
	Cadmium	5.82	6.0	97	80 - 120	P	11/27/2024	12:38	LB133669
	Calcium	2010	2000	100	80 - 120	P	11/27/2024	12:38	LB133669
	Chromium	10.4	10.0	104	80 - 120	P	11/27/2024	12:38	LB133669
	Cobalt	29.5	30.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Copper	22.1	20.0	111	80 - 120	P	11/27/2024	12:38	LB133669
	Iron	98.4	100	98	80 - 120	P	11/27/2024	12:38	LB133669
	Lead	11.9	12.0	99	80 - 120	P	11/27/2024	12:38	LB133669
	Lithium	18.8	20.0	94	80 - 120	P	11/27/2024	12:38	LB133669
	Magnesium	2070	2000	103	80 - 120	P	11/27/2024	12:38	LB133669
	Manganese	20.3	20.0	102	80 - 120	P	11/27/2024	12:38	LB133669
	Nickel	39.1	40.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Potassium	1890	2000	94	80 - 120	P	11/27/2024	12:38	LB133669
	Selenium	19.7	20.0	98	80 - 120	P	11/27/2024	12:38	LB133669
	Silicon	338	400	84	80 - 120	P	11/27/2024	12:38	LB133669
	Silver	10.4	10.0	104	80 - 120	P	11/27/2024	12:38	LB133669
	Sodium	1760	2000	88	80 - 120	P	11/27/2024	12:38	LB133669
	Strontium	20.7	20.0	104	80 - 120	P	11/27/2024	12:38	LB133669
	Sulfur	18.4	20.0	92	80 - 120	P	11/27/2024	12:38	LB133669
	Thallium	42.2	40.0	106	80 - 120	P	11/27/2024	12:38	LB133669
	Tin	38.5	40.0	96	80 - 120	P	11/27/2024	12:38	LB133669
	Titanium	40.1	40.0	100	80 - 120	P	11/27/2024	12:38	LB133669
	Vanadium	39.9	40.0	100	80 - 120	P	11/27/2024	12:38	LB133669
	Zinc	47.3	40.0	118	80 - 120	P	11/27/2024	12:38	LB133669

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	10600	10000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Antimony	5250	5000	105	90 - 110	P	11/27/2024	14:08	LB133669
	Arsenic	5220	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Barium	10600	10000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Beryllium	264	250	105	90 - 110	P	11/27/2024	14:08	LB133669
	Boron	5250	5000	105	90 - 110	P	11/27/2024	14:08	LB133669
	Cadmium	2590	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Calcium	26100	25000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Chromium	1060	1000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Cobalt	2590	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Copper	1320	1250	106	90 - 110	P	11/27/2024	14:08	LB133669
	Iron	5210	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Lead	5190	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Lithium	5300	5000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Magnesium	26000	25000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Manganese	2600	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Nickel	2590	2500	104	90 - 110	P	11/27/2024	14:08	LB133669
	Potassium	26400	25000	106	90 - 110	P	11/27/2024	14:08	LB133669
	Selenium	5220	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Silicon	5210	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Silver	1310	1250	105	90 - 110	P	11/27/2024	14:08	LB133669
	Sodium	27000	25000	108	90 - 110	P	11/27/2024	14:08	LB133669
	Strontium	5360	5000	107	90 - 110	P	11/27/2024	14:08	LB133669
	Sulfur	5080	5000	102	90 - 110	P	11/27/2024	14:08	LB133669
	Thallium	4830	5000	97	90 - 110	P	11/27/2024	14:08	LB133669
	Tin	5180	5000	104	90 - 110	P	11/27/2024	14:08	LB133669
	Titanium	5260	5000	105	90 - 110	P	11/27/2024	14:08	LB133669
	Vanadium	2640	2500	106	90 - 110	P	11/27/2024	14:08	LB133669
	Zinc	2660	2500	106	90 - 110	P	11/27/2024	14:08	LB133669
CCV02	Aluminum	9850	10000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Antimony	4830	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Arsenic	4810	5000	96	90 - 110	P	11/27/2024	15:50	LB133669
	Barium	10100	10000	101	90 - 110	P	11/27/2024	15:50	LB133669
	Beryllium	255	250	102	90 - 110	P	11/27/2024	15:50	LB133669

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495

Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495

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	Boron	5080	5000	102	90 - 110	P	11/27/2024	15:50	LB133669
	Cadmium	2430	2500	97	90 - 110	P	11/27/2024	15:50	LB133669
	Calcium	25000	25000	100	90 - 110	P	11/27/2024	15:50	LB133669
	Chromium	978	1000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Cobalt	2420	2500	97	90 - 110	P	11/27/2024	15:50	LB133669
	Copper	1210	1250	97	90 - 110	P	11/27/2024	15:50	LB133669
	Iron	4830	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Lead	4880	5000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Lithium	4900	5000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Magnesium	24600	25000	99	90 - 110	P	11/27/2024	15:50	LB133669
	Manganese	2510	2500	101	90 - 110	P	11/27/2024	15:50	LB133669
	Nickel	2420	2500	97	90 - 110	P	11/27/2024	15:50	LB133669
	Potassium	23800	25000	95	90 - 110	P	11/27/2024	15:50	LB133669
	Selenium	4840	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Silicon	4720	5000	94	90 - 110	P	11/27/2024	15:50	LB133669
	Silver	1220	1250	98	90 - 110	P	11/27/2024	15:50	LB133669
	Sodium	24400	25000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Strontium	5120	5000	102	90 - 110	P	11/27/2024	15:50	LB133669
	Sulfur	4850	5000	97	90 - 110	P	11/27/2024	15:50	LB133669
	Thallium	4980	5000	100	90 - 110	P	11/27/2024	15:50	LB133669
	Tin	4880	5000	98	90 - 110	P	11/27/2024	15:50	LB133669
	Titanium	5000	5000	100	90 - 110	P	11/27/2024	15:50	LB133669
	Vanadium	2500	2500	100	90 - 110	P	11/27/2024	15:50	LB133669
	Zinc	2460	2500	99	90 - 110	P	11/27/2024	15:50	LB133669
CCV03	Aluminum	10600	10000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Antimony	5230	5000	104	90 - 110	P	11/27/2024	16:03	LB133669
	Arsenic	5230	5000	104	90 - 110	P	11/27/2024	16:03	LB133669
	Barium	10700	10000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Beryllium	272	250	109	90 - 110	P	11/27/2024	16:03	LB133669
	Boron	5400	5000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Cadmium	2660	2500	106	90 - 110	P	11/27/2024	16:03	LB133669
	Calcium	26900	25000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Chromium	1060	1000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Cobalt	2650	2500	106	90 - 110	P	11/27/2024	16:03	LB133669

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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
CCV03	Copper	1320	1250	105	90 - 110	P	11/27/2024	16:03	LB133669
	Iron	5160	5000	103	90 - 110	P	11/27/2024	16:03	LB133669
	Lead	5310	5000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Lithium	5230	5000	105	90 - 110	P	11/27/2024	16:03	LB133669
	Magnesium	26700	25000	107	90 - 110	P	11/27/2024	16:03	LB133669
	Manganese	2690	2500	108	90 - 110	P	11/27/2024	16:03	LB133669
	Nickel	2650	2500	106	90 - 110	P	11/27/2024	16:03	LB133669
	Potassium	25400	25000	101	90 - 110	P	11/27/2024	16:03	LB133669
	Selenium	5240	5000	105	90 - 110	P	11/27/2024	16:03	LB133669
	Silicon	5070	5000	101	90 - 110	P	11/27/2024	16:03	LB133669
	Silver	1300	1250	104	90 - 110	P	11/27/2024	16:03	LB133669
	Sodium	25800	25000	103	90 - 110	P	11/27/2024	16:03	LB133669
	Strontium	5470	5000	109	90 - 110	P	11/27/2024	16:03	LB133669
	Sulfur	5300	5000	106	90 - 110	P	11/27/2024	16:03	LB133669
	Thallium	5420	5000	108	90 - 110	P	11/27/2024	16:03	LB133669
	Tin	5360	5000	107	90 - 110	P	11/27/2024	16:03	LB133669
	Titanium	5370	5000	107	90 - 110	P	11/27/2024	16:03	LB133669
	Vanadium	2700	2500	108	90 - 110	P	11/27/2024	16:03	LB133669
	Zinc	2630	2500	105	90 - 110	P	11/27/2024	16:03	LB133669
CCV04	Aluminum	10600	10000	106	90 - 110	P	11/27/2024	16:39	LB133669
	Antimony	5250	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Arsenic	5240	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Barium	10700	10000	107	90 - 110	P	11/27/2024	16:39	LB133669
	Beryllium	263	250	105	90 - 110	P	11/27/2024	16:39	LB133669
	Boron	5250	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Cadmium	2610	2500	104	90 - 110	P	11/27/2024	16:39	LB133669
	Calcium	26300	25000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Chromium	1050	1000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Cobalt	2610	2500	104	90 - 110	P	11/27/2024	16:39	LB133669
	Copper	1310	1250	105	90 - 110	P	11/27/2024	16:39	LB133669
	Iron	5210	5000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Lead	5230	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Lithium	5220	5000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Magnesium	26200	25000	105	90 - 110	P	11/27/2024	16:39	LB133669

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	Manganese	2630	2500	105	90 - 110	P	11/27/2024	16:39	LB133669
	Nickel	2610	2500	104	90 - 110	P	11/27/2024	16:39	LB133669
	Potassium	26000	25000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Selenium	5260	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Silicon	5170	5000	103	90 - 110	P	11/27/2024	16:39	LB133669
	Silver	1300	1250	104	90 - 110	P	11/27/2024	16:39	LB133669
	Sodium	26000	25000	104	90 - 110	P	11/27/2024	16:39	LB133669
	Strontium	5440	5000	109	90 - 110	P	11/27/2024	16:39	LB133669
	Sulfur	5160	5000	103	90 - 110	P	11/27/2024	16:39	LB133669
	Thallium	5290	5000	106	90 - 110	P	11/27/2024	16:39	LB133669
	Tin	5260	5000	105	90 - 110	P	11/27/2024	16:39	LB133669
	Titanium	5300	5000	106	90 - 110	P	11/27/2024	16:39	LB133669
	Vanadium	2670	2500	107	90 - 110	P	11/27/2024	16:39	LB133669
	Zinc	2640	2500	106	90 - 110	P	11/27/2024	16:39	LB133669
CCV05	Aluminum	10600	10000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Antimony	5170	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Arsenic	5120	5000	102	90 - 110	P	11/27/2024	17:34	LB133669
	Barium	10600	10000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Beryllium	264	250	106	90 - 110	P	11/27/2024	17:34	LB133669
	Boron	5280	5000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Cadmium	2570	2500	103	90 - 110	P	11/27/2024	17:34	LB133669
	Calcium	26200	25000	105	90 - 110	P	11/27/2024	17:34	LB133669
	Chromium	1030	1000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Cobalt	2570	2500	103	90 - 110	P	11/27/2024	17:34	LB133669
	Copper	1290	1250	103	90 - 110	P	11/27/2024	17:34	LB133669
	Iron	5180	5000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Lead	5150	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Lithium	5220	5000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Magnesium	26000	25000	104	90 - 110	P	11/27/2024	17:34	LB133669
	Manganese	2640	2500	106	90 - 110	P	11/27/2024	17:34	LB133669
	Nickel	2570	2500	103	90 - 110	P	11/27/2024	17:34	LB133669
	Potassium	25500	25000	102	90 - 110	P	11/27/2024	17:34	LB133669
	Selenium	5130	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Silicon	5000	5000	100	90 - 110	P	11/27/2024	17:34	LB133669

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1280	1250	102	90 - 110	P	11/27/2024	17:34	LB133669
	Sodium	26300	25000	105	90 - 110	P	11/27/2024	17:34	LB133669
	Strontium	5400	5000	108	90 - 110	P	11/27/2024	17:34	LB133669
	Sulfur	5070	5000	101	90 - 110	P	11/27/2024	17:34	LB133669
	Thallium	5060	5000	101	90 - 110	P	11/27/2024	17:34	LB133669
	Tin	5150	5000	103	90 - 110	P	11/27/2024	17:34	LB133669
	Titanium	5280	5000	106	90 - 110	P	11/27/2024	17:34	LB133669
	Vanadium	2640	2500	106	90 - 110	P	11/27/2024	17:34	LB133669
	Zinc	2560	2500	103	90 - 110	P	11/27/2024	17:34	LB133669

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	2510	2500	100	90 - 110	P	12/04/2024	13:22	LB133739
	Antimony	984	1000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Arsenic	977	1000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Barium	508	520	98	90 - 110	P	12/04/2024	13:22	LB133739
	Beryllium	498	510	98	90 - 110	P	12/04/2024	13:22	LB133739
	Cadmium	497	510	98	90 - 110	P	12/04/2024	13:22	LB133739
	Calcium	9770	10000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Chromium	511	520	98	90 - 110	P	12/04/2024	13:22	LB133739
	Cobalt	498	520	96	90 - 110	P	12/04/2024	13:22	LB133739
	Copper	509	510	100	90 - 110	P	12/04/2024	13:22	LB133739
	Iron	9610	10000	96	90 - 110	P	12/04/2024	13:22	LB133739
	Lead	983	1000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Magnesium	5740	6000	96	90 - 110	P	12/04/2024	13:22	LB133739
	Manganese	505	520	97	90 - 110	P	12/04/2024	13:22	LB133739
	Nickel	500	530	94	90 - 110	P	12/04/2024	13:22	LB133739
	Potassium	9630	9900	97	90 - 110	P	12/04/2024	13:22	LB133739
	Selenium	1010	1000	100	90 - 110	P	12/04/2024	13:22	LB133739
	Silver	246	250	98	90 - 110	P	12/04/2024	13:22	LB133739
	Sodium	9770	10000	98	90 - 110	P	12/04/2024	13:22	LB133739
	Thallium	1020	1000	102	90 - 110	P	12/04/2024	13:22	LB133739
	Vanadium	499	500	100	90 - 110	P	12/04/2024	13:22	LB133739
	Zinc	1020	1000	102	90 - 110	P	12/04/2024	13:22	LB133739

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495
Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495
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	109	100	109	80 - 120	P	12/04/2024	13:34	LB133739
	Antimony	48.7	50.0	98	80 - 120	P	12/04/2024	13:34	LB133739
	Arsenic	18.8	20.0	94	80 - 120	P	12/04/2024	13:34	LB133739
	Barium	98.9	100	99	80 - 120	P	12/04/2024	13:34	LB133739
	Beryllium	6.05	6.0	101	80 - 120	P	12/04/2024	13:34	LB133739
	Cadmium	5.97	6.0	100	80 - 120	P	12/04/2024	13:34	LB133739
	Calcium	2010	2000	101	80 - 120	P	12/04/2024	13:34	LB133739
	Chromium	10.4	10.0	104	80 - 120	P	12/04/2024	13:34	LB133739
	Cobalt	29.4	30.0	98	80 - 120	P	12/04/2024	13:34	LB133739
	Copper	22.2	20.0	111	80 - 120	P	12/04/2024	13:34	LB133739
	Iron	99.8	100	100	80 - 120	P	12/04/2024	13:34	LB133739
	Lead	11.0	12.0	92	80 - 120	P	12/04/2024	13:34	LB133739
	Magnesium	2130	2000	106	80 - 120	P	12/04/2024	13:34	LB133739
	Manganese	21.1	20.0	105	80 - 120	P	12/04/2024	13:34	LB133739
	Nickel	39.4	40.0	98	80 - 120	P	12/04/2024	13:34	LB133739
	Potassium	1940	2000	97	80 - 120	P	12/04/2024	13:34	LB133739
	Selenium	21.4	20.0	107	80 - 120	P	12/04/2024	13:34	LB133739
	Silver	10.8	10.0	108	80 - 120	P	12/04/2024	13:34	LB133739
	Sodium	2040	2000	102	80 - 120	P	12/04/2024	13:34	LB133739
	Thallium	43.5	40.0	109	80 - 120	P	12/04/2024	13:34	LB133739
	Vanadium	40.7	40.0	102	80 - 120	P	12/04/2024	13:34	LB133739
	Zinc	43.2	40.0	108	80 - 120	P	12/04/2024	13:34	LB133739

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group SDG No.: P4495

Contract: CHEM02 Lab Code: CHEM Case No.: P4495 SAS No.: P4495

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	9930	10000	99	90 - 110	P	12/04/2024	14:20	LB133739
	Antimony	5140	5000	103	90 - 110	P	12/04/2024	14:20	LB133739
	Arsenic	5050	5000	101	90 - 110	P	12/04/2024	14:20	LB133739
	Barium	9600	10000	96	90 - 110	P	12/04/2024	14:20	LB133739
	Beryllium	229	250	92	90 - 110	P	12/04/2024	14:20	LB133739
	Cadmium	2350	2500	94	90 - 110	P	12/04/2024	14:20	LB133739
	Calcium	23000	25000	92	90 - 110	P	12/04/2024	14:20	LB133739
	Chromium	971	1000	97	90 - 110	P	12/04/2024	14:20	LB133739
	Cobalt	2360	2500	94	90 - 110	P	12/04/2024	14:20	LB133739
	Copper	1270	1250	102	90 - 110	P	12/04/2024	14:20	LB133739
	Iron	4790	5000	96	90 - 110	P	12/04/2024	14:20	LB133739
	Lead	4780	5000	96	90 - 110	P	12/04/2024	14:20	LB133739
	Magnesium	23600	25000	94	90 - 110	P	12/04/2024	14:20	LB133739
	Manganese	2290	2500	92	90 - 110	P	12/04/2024	14:20	LB133739
	Nickel	2370	2500	95	90 - 110	P	12/04/2024	14:20	LB133739
	Potassium	25600	25000	102	90 - 110	P	12/04/2024	14:20	LB133739
	Selenium	5090	5000	102	90 - 110	P	12/04/2024	14:20	LB133739
	Silver	1210	1250	97	90 - 110	P	12/04/2024	14:20	LB133739
	Sodium	26900	25000	108	90 - 110	P	12/04/2024	14:20	LB133739
	Thallium	4870	5000	97	90 - 110	P	12/04/2024	14:20	LB133739
	Vanadium	2390	2500	96	90 - 110	P	12/04/2024	14:20	LB133739
	Zinc	2520	2500	101	90 - 110	P	12/04/2024	14:20	LB133739
CCV02	Aluminum	9920	10000	99	90 - 110	P	12/04/2024	14:37	LB133739
	Antimony	5170	5000	103	90 - 110	P	12/04/2024	14:37	LB133739
	Arsenic	5090	5000	102	90 - 110	P	12/04/2024	14:37	LB133739
	Barium	9840	10000	98	90 - 110	P	12/04/2024	14:37	LB133739
	Beryllium	229	250	92	90 - 110	P	12/04/2024	14:37	LB133739
	Cadmium	2370	2500	95	90 - 110	P	12/04/2024	14:37	LB133739
	Calcium	23200	25000	93	90 - 110	P	12/04/2024	14:37	LB133739
	Chromium	969	1000	97	90 - 110	P	12/04/2024	14:37	LB133739
	Cobalt	2380	2500	95	90 - 110	P	12/04/2024	14:37	LB133739
	Copper	1280	1250	103	90 - 110	P	12/04/2024	14:37	LB133739
	Iron	4860	5000	97	90 - 110	P	12/04/2024	14:37	LB133739
	Lead	4820	5000	96	90 - 110	P	12/04/2024	14:37	LB133739

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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	23800	25000	95	90 - 110	P	12/04/2024	14:37	LB133739
	Manganese	2320	2500	93	90 - 110	P	12/04/2024	14:37	LB133739
	Nickel	2390	2500	96	90 - 110	P	12/04/2024	14:37	LB133739
	Potassium	26000	25000	104	90 - 110	P	12/04/2024	14:37	LB133739
	Selenium	5150	5000	103	90 - 110	P	12/04/2024	14:37	LB133739
	Silver	1220	1250	97	90 - 110	P	12/04/2024	14:37	LB133739
	Sodium	27000	25000	108	90 - 110	P	12/04/2024	14:37	LB133739
	Thallium	4960	5000	99	90 - 110	P	12/04/2024	14:37	LB133739
	Vanadium	2410	2500	96	90 - 110	P	12/04/2024	14:37	LB133739
	Zinc	2550	2500	102	90 - 110	P	12/04/2024	14:37	LB133739



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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	0.23	0.2	114	40 - 160	CV	10/31/2024	10:30	LB133227
CRI01	Aluminum	111	100	111	40 - 160	P	11/27/2024	12:47	LB133669
	Antimony	49.4	50.0	99	40 - 160	P	11/27/2024	12:47	LB133669
	Arsenic	22.6	20.0	113	40 - 160	P	11/27/2024	12:47	LB133669
	Barium	105	100	105	40 - 160	P	11/27/2024	12:47	LB133669
	Beryllium	6.16	6.0	103	40 - 160	P	11/27/2024	12:47	LB133669
	Boron	108	100	108	40 - 160	P	11/27/2024	12:47	LB133669
	Cadmium	5.94	6.0	99	40 - 160	P	11/27/2024	12:47	LB133669
	Calcium	2120	2000	106	40 - 160	P	11/27/2024	12:47	LB133669
	Chromium	9.62	10.0	96	40 - 160	P	11/27/2024	12:47	LB133669
	Cobalt	29.6	30.0	98	40 - 160	P	11/27/2024	12:47	LB133669
	Copper	22.2	20.0	111	40 - 160	P	11/27/2024	12:47	LB133669
	Iron	98.1	100	98	40 - 160	P	11/27/2024	12:47	LB133669
	Lead	11.4	12.0	95	40 - 160	P	11/27/2024	12:47	LB133669
	Lithium	20.2	20.0	101	40 - 160	P	11/27/2024	12:47	LB133669
	Magnesium	2200	2000	110	40 - 160	P	11/27/2024	12:47	LB133669
	Manganese	21.6	20.0	108	40 - 160	P	11/27/2024	12:47	LB133669
	Nickel	39.4	40.0	98	40 - 160	P	11/27/2024	12:47	LB133669
	Potassium	1920	2000	96	40 - 160	P	11/27/2024	12:47	LB133669
	Selenium	20.3	20.0	102	40 - 160	P	11/27/2024	12:47	LB133669
	Silicon	341	400	85	40 - 160	P	11/27/2024	12:47	LB133669
	Silver	10.0	10.0	100	40 - 160	P	11/27/2024	12:47	LB133669
	Sodium	1740	2000	87	40 - 160	P	11/27/2024	12:47	LB133669
	Strontium	22.0	20.0	110	40 - 160	P	11/27/2024	12:47	LB133669
	Sulfur	17.2	20.0	86	40 - 160	P	11/27/2024	12:47	LB133669
	Thallium	41.9	40.0	105	40 - 160	P	11/27/2024	12:47	LB133669
	Tin	38.2	40.0	96	40 - 160	P	11/27/2024	12:47	LB133669
	Titanium	42.7	40.0	107	40 - 160	P	11/27/2024	12:47	LB133669
	Vanadium	41.9	40.0	105	40 - 160	P	11/27/2024	12:47	LB133669
	Zinc	44.2	40.0	110	40 - 160	P	11/27/2024	12:47	LB133669
CRI01	Aluminum	107	100	107	40 - 160	P	12/04/2024	13:52	LB133739
	Antimony	49.5	50.0	99	40 - 160	P	12/04/2024	13:52	LB133739
	Arsenic	20.4	20.0	102	40 - 160	P	12/04/2024	13:52	LB133739
	Barium	96.1	100	96	40 - 160	P	12/04/2024	13:52	LB133739
	Beryllium	6.11	6.0	102	40 - 160	P	12/04/2024	13:52	LB133739

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Cadmium	6.04	6.0	101	40 - 160	P	12/04/2024	13:52	LB133739
	Calcium	2040	2000	102	40 - 160	P	12/04/2024	13:52	LB133739
	Chromium	10.6	10.0	106	40 - 160	P	12/04/2024	13:52	LB133739
	Cobalt	29.9	30.0	100	40 - 160	P	12/04/2024	13:52	LB133739
	Copper	22.1	20.0	110	40 - 160	P	12/04/2024	13:52	LB133739
	Iron	99.7	100	100	40 - 160	P	12/04/2024	13:52	LB133739
	Lead	11.2	12.0	94	40 - 160	P	12/04/2024	13:52	LB133739
	Magnesium	2160	2000	108	40 - 160	P	12/04/2024	13:52	LB133739
	Manganese	20.7	20.0	104	40 - 160	P	12/04/2024	13:52	LB133739
	Nickel	40.0	40.0	100	40 - 160	P	12/04/2024	13:52	LB133739
	Potassium	1920	2000	96	40 - 160	P	12/04/2024	13:52	LB133739
	Selenium	20.6	20.0	103	40 - 160	P	12/04/2024	13:52	LB133739
	Silver	10.6	10.0	106	40 - 160	P	12/04/2024	13:52	LB133739
	Sodium	2040	2000	102	40 - 160	P	12/04/2024	13:52	LB133739
	Thallium	42.4	40.0	106	40 - 160	P	12/04/2024	13:52	LB133739
	Vanadium	41.9	40.0	105	40 - 160	P	12/04/2024	13:52	LB133739
	Zinc	43.5	40.0	109	40 - 160	P	12/04/2024	13:52	LB133739



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	Chemtech Consulting Group				SDG No.:	P4495			
Contract:	CHEM02	Lab Code:	CHEM	Case No.:	P4495	SAS No.:	P4495		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB61	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	10:23	LB133227

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	10:27	LB133227
CCB05	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	11:01	LB133227
CCB06	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	11:31	LB133227
CCB07	Mercury	0.20	+/-0.20	U	0.20	CV	10/31/2024	12:05	LB133227

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

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	11/27/2024	12:43	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	12:43	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	12:43	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	12:43	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	12:43	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	12:43	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	12:43	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	12:43	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	12:43	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	12:43	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	12:43	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	12:43	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	12:43	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	12:43	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	12:43	LB133669

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
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	11/27/2024	14:48	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	14:48	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	14:48	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	14:48	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	14:48	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	14:48	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	14:48	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	14:48	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	14:48	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	14:48	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	14:48	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	14:48	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	14:48	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	14:48	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	14:48	LB133669
CCB02	Aluminum	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	15:54	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	15:54	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	15:54	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	15:54	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	15:54	LB133669

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	15:54	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	15:54	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	15:54	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	15:54	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	15:54	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	15:54	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	15:54	LB133669
CCB03	Aluminum	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	16:07	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:07	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:07	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	16:07	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	16:07	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	16:07	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	16:07	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	16:07	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	16:07	LB133669

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	16:07	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:07	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	16:07	LB133669
CCB04	Aluminum	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	16:43	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:43	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	16:43	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	16:43	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	16:43	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	16:43	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	16:43	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	16:43	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	16:43	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	16:43	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	16:43	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	16:43	LB133669
	Aluminum	100	+/-100	U	100	P	11/27/2024	17:46	LB133669
CCB05	Aluminum	100	+/-100	U	100	P	11/27/2024	17:46	LB133669

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Antimony	50.0	+/-50.0	U	50.0	P	11/27/2024	17:46	LB133669
	Arsenic	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Barium	100	+/-100	U	100	P	11/27/2024	17:46	LB133669
	Beryllium	6.00	+/-6.00	U	6.00	P	11/27/2024	17:46	LB133669
	Boron	100	+/-100	U	100	P	11/27/2024	17:46	LB133669
	Cadmium	6.00	+/-6.00	U	6.00	P	11/27/2024	17:46	LB133669
	Calcium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Chromium	10.0	+/-10.0	U	10.0	P	11/27/2024	17:46	LB133669
	Cobalt	30.0	+/-30.0	U	30.0	P	11/27/2024	17:46	LB133669
	Copper	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Iron	100	+/-100	U	100	P	11/27/2024	17:46	LB133669
	Lead	12.0	+/-12.0	U	12.0	P	11/27/2024	17:46	LB133669
	Magnesium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Manganese	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Nickel	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Potassium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Selenium	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Silicon	400	+/-400	U	400	P	11/27/2024	17:46	LB133669
	Silver	10.0	+/-10.0	U	10.0	P	11/27/2024	17:46	LB133669
	Sulfur	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Sodium	2000	+/-2000	U	2000	P	11/27/2024	17:46	LB133669
	Strontium	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Lithium	20.0	+/-20.0	U	20.0	P	11/27/2024	17:46	LB133669
	Thallium	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Tin	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Titanium	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Vanadium	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669
	Zinc	40.0	+/-40.0	U	40.0	P	11/27/2024	17:46	LB133669

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

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	12/04/2024	13:43	LB133739
	Antimony	50.0	+/-50.0	U	50.0	P	12/04/2024	13:43	LB133739
	Arsenic	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Barium	100	+/-100	U	100	P	12/04/2024	13:43	LB133739
	Beryllium	6.00	+/-6.00	U	6.00	P	12/04/2024	13:43	LB133739
	Cadmium	6.00	+/-6.00	U	6.00	P	12/04/2024	13:43	LB133739
	Calcium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Chromium	10.0	+/-10.0	U	10.0	P	12/04/2024	13:43	LB133739
	Cobalt	30.0	+/-30.0	U	30.0	P	12/04/2024	13:43	LB133739
	Copper	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Iron	100	+/-100	U	100	P	12/04/2024	13:43	LB133739
	Lead	12.0	+/-12.0	U	12.0	P	12/04/2024	13:43	LB133739
	Magnesium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Manganese	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Nickel	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739
	Potassium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Selenium	20.0	+/-20.0	U	20.0	P	12/04/2024	13:43	LB133739
	Silver	10.0	+/-10.0	U	10.0	P	12/04/2024	13:43	LB133739
	Sodium	2000	+/-2000	U	2000	P	12/04/2024	13:43	LB133739
	Thallium	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739
	Vanadium	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739
	Zinc	40.0	+/-40.0	U	40.0	P	12/04/2024	13:43	LB133739

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group		SDG No.: P4495							
Contract: CHEM02	Lab Code: CHEM	Case No.: P4495	SAS No.: P4495						
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	12/04/2024	14:29	LB133739
	Antimony	50.0	+/-50.0	U	50.0	P	12/04/2024	14:29	LB133739
	Arsenic	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Barium	100	+/-100	U	100	P	12/04/2024	14:29	LB133739
	Beryllium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:29	LB133739
	Cadmium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:29	LB133739
	Calcium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Chromium	10.0	+/-10.0	U	10.0	P	12/04/2024	14:29	LB133739
	Cobalt	30.0	+/-30.0	U	30.0	P	12/04/2024	14:29	LB133739
	Copper	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Iron	100	+/-100	U	100	P	12/04/2024	14:29	LB133739
	Lead	12.0	+/-12.0	U	12.0	P	12/04/2024	14:29	LB133739
	Magnesium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Manganese	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Nickel	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
	Potassium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Selenium	20.0	+/-20.0	U	20.0	P	12/04/2024	14:29	LB133739
	Silver	10.0	+/-10.0	U	10.0	P	12/04/2024	14:29	LB133739
	Sodium	2000	+/-2000	U	2000	P	12/04/2024	14:29	LB133739
	Thallium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
	Vanadium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
	Zinc	40.0	+/-40.0	U	40.0	P	12/04/2024	14:29	LB133739
CCB02	Aluminum	100	+/-100	U	100	P	12/04/2024	14:41	LB133739
	Antimony	50.0	+/-50.0	U	50.0	P	12/04/2024	14:41	LB133739
	Arsenic	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739
	Barium	100	+/-100	U	100	P	12/04/2024	14:41	LB133739
	Beryllium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:41	LB133739
	Cadmium	6.00	+/-6.00	U	6.00	P	12/04/2024	14:41	LB133739
	Calcium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Chromium	10.0	+/-10.0	U	10.0	P	12/04/2024	14:41	LB133739
	Cobalt	30.0	+/-30.0	U	30.0	P	12/04/2024	14:41	LB133739
	Copper	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739
	Iron	100	+/-100	U	100	P	12/04/2024	14:41	LB133739
	Lead	12.0	+/-12.0	U	12.0	P	12/04/2024	14:41	LB133739
	Magnesium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Manganese	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739
	Nickel	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739
	Potassium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Selenium	20.0	+/-20.0	U	20.0	P	12/04/2024	14:41	LB133739

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

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	12/04/2024	14:41	LB133739
	Sodium	2000	+/-2000	U	2000	P	12/04/2024	14:41	LB133739
	Thallium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739
	Vanadium	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739
	Zinc	40.0	+/-40.0	U	40.0	P	12/04/2024	14:41	LB133739

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Chemtech Consulting Group

SDG No.: P4495

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164552BL		SOLID		Batch Number:	PB164552		Prep Date:	10/30/2024	
	Mercury	0.013	<0.013	U	0.013	CV	10/31/2024	10:36	LB133227

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Chemtech Consulting Group

SDG No.: P4495

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165242BL	SOLID			Batch Number:	PB165242		Prep Date:	11/26/2024	
	Aluminum	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Antimony	2.50	<2.50	U	2.50	P	11/27/2024	15:11	LB133669
	Arsenic	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Barium	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Beryllium	0.30	<0.30	U	0.30	P	11/27/2024	15:11	LB133669
	Boron	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Cadmium	0.30	<0.30	U	0.30	P	11/27/2024	15:11	LB133669
	Calcium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Chromium	0.50	<0.50	U	0.50	P	11/27/2024	15:11	LB133669
	Cobalt	1.50	<1.50	U	1.50	P	11/27/2024	15:11	LB133669
	Copper	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Iron	5.00	<5.00	U	5.00	P	11/27/2024	15:11	LB133669
	Lead	0.60	<0.60	U	0.60	P	11/27/2024	15:11	LB133669
	Magnesium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Manganese	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Nickel	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Potassium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Selenium	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Silicon	20.0	<20.0	U	20.0	P	11/27/2024	15:11	LB133669
	Silver	0.50	<0.50	U	0.50	P	11/27/2024	15:11	LB133669
	Sulfur	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Sodium	100	<100	U	100	P	11/27/2024	15:11	LB133669
	Strontium	10.0	<10.0	U	10.0	P	11/27/2024	15:11	LB133669
	Lithium	1.00	<1.00	U	1.00	P	11/27/2024	15:11	LB133669
	Thallium	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Tin	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Titanium	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Vanadium	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669
	Zinc	2.00	<2.00	U	2.00	P	11/27/2024	15:11	LB133669

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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	267000	255000	105	216000	294000	11/27/2024	13:25	LB133669
	Antimony	-3.00			-50	50	11/27/2024	13:25	LB133669
	Arsenic	5.12			-20	20	11/27/2024	13:25	LB133669
	Barium	4.09	6.0	68	-94	106	11/27/2024	13:25	LB133669
	Beryllium	1.38			-6	6	11/27/2024	13:25	LB133669
	Boron	31.1	1000	3	-100	100	11/27/2024	13:25	LB133669
	Cadmium	6.81	1.0	681	-5	7	11/27/2024	13:25	LB133669
	Calcium	249000	245000	102	208000	282000	11/27/2024	13:25	LB133669
	Chromium	58.0	52.0	112	42	62	11/27/2024	13:25	LB133669
	Cobalt	2.31			-30	30	11/27/2024	13:25	LB133669
	Copper	21.8	2.0	1090	-18	22	11/27/2024	13:25	LB133669
	Iron	102000	101000	101	85600	116500	11/27/2024	13:25	LB133669
	Lead	9.71			-12	12	11/27/2024	13:25	LB133669
	Magnesium	273000	255000	107	216000	294000	11/27/2024	13:25	LB133669
	Manganese	4.30	7.0	61	-13	27	11/27/2024	13:25	LB133669
	Nickel	2.60	2.0	130	-38	42	11/27/2024	13:25	LB133669
	Potassium	-57.5			0	0	11/27/2024	13:25	LB133669
	Selenium	-19.4			-20	20	11/27/2024	13:25	LB133669
	Silicon	17.3			0	0	11/27/2024	13:25	LB133669
	Silver	-7.66			-10	10	11/27/2024	13:25	LB133669
	Sulfur	-8.87			0	0	11/27/2024	13:25	LB133669
	Sodium	25.1			0	0	11/27/2024	13:25	LB133669
	Strontium	4.50			0	0	11/27/2024	13:25	LB133669
	Lithium	-13.0	1000	1	-20	20	11/27/2024	13:25	LB133669
	Thallium	12.7			-40	40	11/27/2024	13:25	LB133669
	Tin	-4.01	1000		-40	40	11/27/2024	13:25	LB133669
	Titanium	-0.71			0	0	11/27/2024	13:25	LB133669
	Vanadium	6.75			-40	40	11/27/2024	13:25	LB133669
	Zinc	7.62			-40	40	11/27/2024	13:25	LB133669
ICSAB01	Aluminum	270000	247000	109	209000	285000	11/27/2024	14:03	LB133669
	Antimony	620	618	100	525	711	11/27/2024	14:03	LB133669
	Arsenic	113	104	109	88.4	120	11/27/2024	14:03	LB133669
	Barium	538	537	100	437	637	11/27/2024	14:03	LB133669
	Beryllium	524	495	106	420	570	11/27/2024	14:03	LB133669
	Boron	989	1000	99	850	1150	11/27/2024	14:03	LB133669
	Cadmium	1020	972	105	826	1120	11/27/2024	14:03	LB133669
	Calcium	253000	235000	108	199000	271000	11/27/2024	14:03	LB133669
	Chromium	554	542	102	460	624	11/27/2024	14:03	LB133669
	Cobalt	509	476	107	404	548	11/27/2024	14:03	LB133669
	Copper	501	511	98	434	588	11/27/2024	14:03	LB133669
	Iron	99000	99300	100	84400	114500	11/27/2024	14:03	LB133669
	Lead	56.4	49.0	115	37	61	11/27/2024	14:03	LB133669

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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	Magnesium	276000	248000	111	210000	286000	11/27/2024	14:03	LB133669
	Manganese	514	507	101	430	584	11/27/2024	14:03	LB133669
	Nickel	1000	954	105	810	1100	11/27/2024	14:03	LB133669
	Potassium	-88.0			0	0	11/27/2024	14:03	LB133669
	Selenium	36.1	46.0	78	26	66	11/27/2024	14:03	LB133669
	Silicon	1120			0	0	11/27/2024	14:03	LB133669
	Silver	190	201	94	170	232	11/27/2024	14:03	LB133669
	Sulfur	976			0	0	11/27/2024	14:03	LB133669
	Sodium	-8.70			0	0	11/27/2024	14:03	LB133669
	Strontium	1010			0	0	11/27/2024	14:03	LB133669
	Lithium	966	1000	97	850	1150	11/27/2024	14:03	LB133669
	Thallium	104	108	96	68	148	11/27/2024	14:03	LB133669
	Tin	979	1000	98	850	1150	11/27/2024	14:03	LB133669
	Titanium	1000			0	0	11/27/2024	14:03	LB133669
	Vanadium	511	491	104	417	565	11/27/2024	14:03	LB133669
	Zinc	1080	952	113	809	1095	11/27/2024	14:03	LB133669
ICSA01	Aluminum	263000	255000	103	216000	294000	12/04/2024	13:57	LB133739
	Antimony	-1.94			-50	50	12/04/2024	13:57	LB133739
	Arsenic	1.57			-20	20	12/04/2024	13:57	LB133739
	Barium	-0.17	6.0	3	-94	106	12/04/2024	13:57	LB133739
	Beryllium	1.23			-6	6	12/04/2024	13:57	LB133739
	Cadmium	8.30	1.0	830	-5	7	12/04/2024	13:57	LB133739
	Calcium	244000	245000	100	208000	282000	12/04/2024	13:57	LB133739
	Chromium	56.0	52.0	108	42	62	12/04/2024	13:57	LB133739
	Cobalt	2.84			-30	30	12/04/2024	13:57	LB133739
	Copper	-8.89	2.0	444	-18	22	12/04/2024	13:57	LB133739
	Iron	97500	101000	96	85600	116500	12/04/2024	13:57	LB133739
	Lead	7.22			-12	12	12/04/2024	13:57	LB133739
	Magnesium	267000	255000	105	216000	294000	12/04/2024	13:57	LB133739
	Manganese	5.09	7.0	73	-13	27	12/04/2024	13:57	LB133739
	Nickel	2.40	2.0	120	-38	42	12/04/2024	13:57	LB133739
	Potassium	47.8			0	0	12/04/2024	13:57	LB133739
	Selenium	-10.7			-20	20	12/04/2024	13:57	LB133739
	Silver	-5.06			-10	10	12/04/2024	13:57	LB133739
	Sodium	100			0	0	12/04/2024	13:57	LB133739
	Thallium	11.5			-40	40	12/04/2024	13:57	LB133739
	Vanadium	6.74			-40	40	12/04/2024	13:57	LB133739
	Zinc	8.15			-40	40	12/04/2024	13:57	LB133739
ICSAB01	Aluminum	261000	247000	106	209000	285000	12/04/2024	14:15	LB133739
	Antimony	629	618	102	525	711	12/04/2024	14:15	LB133739
	Arsenic	110	104	106	88.4	120	12/04/2024	14:15	LB133739
	Barium	500	537	93	437	637	12/04/2024	14:15	LB133739

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495
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	Beryllium	505	495	102	420	570	12/04/2024	14:15	LB133739
	Cadmium	1010	972	104	826	1120	12/04/2024	14:15	LB133739
	Calcium	239000	235000	102	199000	271000	12/04/2024	14:15	LB133739
	Chromium	561	542	104	460	624	12/04/2024	14:15	LB133739
	Cobalt	503	476	106	404	548	12/04/2024	14:15	LB133739
	Copper	474	511	93	434	588	12/04/2024	14:15	LB133739
	Iron	96000	99300	97	84400	114500	12/04/2024	14:15	LB133739
	Lead	52.7	49.0	108	37	61	12/04/2024	14:15	LB133739
	Magnesium	264000	248000	106	210000	286000	12/04/2024	14:15	LB133739
	Manganese	482	507	95	430	584	12/04/2024	14:15	LB133739
	Nickel	987	954	104	810	1100	12/04/2024	14:15	LB133739
	Potassium	-30.8			0	0	12/04/2024	14:15	LB133739
	Selenium	34.2	46.0	74	26	66	12/04/2024	14:15	LB133739
	Silver	193	201	96	170	232	12/04/2024	14:15	LB133739
	Sodium	114			0	0	12/04/2024	14:15	LB133739
	Thallium	94.7	108	88	68	148	12/04/2024	14:15	LB133739
	Vanadium	496	491	101	417	565	12/04/2024	14:15	LB133739
	Zinc	1100	952	116	809	1095	12/04/2024	14:15	LB133739



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Chemtech Consulting Group	level: low	sdg no.: P4495
contract: CHEM02	lab code: CHEM	case no.: P4495 sas no.: P4495
matrix: Solid	sample id: P4618-01	client id: HR-01-102924MS
Percent Solids for Sample: 95.4	Spiked ID: P4618-01MS	Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.25		0.030		0.25	89		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Chemtech Consulting Group	level: low	sdg no.: P4495
contract: CHEM02	lab code: CHEM	case no.: P4495 sas no.: P4495
matrix: Solid	sample id: P4618-01	client id: HR-01-102924MSD
Percent Solids for Sample: 95.4	Spiked ID: P4618-01MSD	Percent Solids for Spike Sample: 95.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.030		0.25	97		CV

Metals
- 5b -

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Matrix:

Level: LOW

Client ID:

Sample ID:

Spiked ID:

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
---------	-------	------------------------	---	------------------	---	----------------	---------------	------	---

.....

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Chemtech Consulting Group</u>	Level:	<u>LOW</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P4618-01</u>	Client ID:	<u>HR-01-102924DUP</u>
Percent Solids for Sample:	95.4	Duplicate ID	P4618-01DUP	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.030		0.032		6		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Chemtech Consulting Group</u>	Level:	<u>LOW</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P4618-01MS</u>	Client ID:	<u>HR-01-102924MSD</u>
Percent Solids for Sample:	95.4	Duplicate ID	P4618-01MSD	Percent Solids for Spike Sample:	95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.25		0.27		7		CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164552BS Mercury	mg/Kg	0.25	0.23		92	80 - 120	CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Chemtech Consulting Group **SDG No.:** P4495
Contract: CHEM02 **Lab Code:** CHEM **Case No.:** P4495 **SAS No.:** P4495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165242BS							
Aluminum	mg/Kg	100	95.4		95	80 - 120	P
Antimony	mg/Kg	40.0	36.3		91	80 - 120	P
Arsenic	mg/Kg	40.0	36.7		92	80 - 120	P
Barium	mg/Kg	10.0	9.77		98	80 - 120	P
Beryllium	mg/Kg	10.0	9.97		100	80 - 120	P
Boron	mg/Kg	15.0	14.7		98	80 - 120	P
Cadmium	mg/Kg	10.0	9.25		92	80 - 120	P
Calcium	mg/Kg	50.0	51.7	J	103	80 - 120	P
Chromium	mg/Kg	20.0	19.2		96	80 - 120	P
Cobalt	mg/Kg	10.0	9.32		93	80 - 120	P
Copper	mg/Kg	15.0	14.5		97	80 - 120	P
Iron	mg/Kg	150	139		93	80 - 120	P
Lead	mg/Kg	50.0	46.4		93	80 - 120	P
Magnesium	mg/Kg	100	95.9	J	96	80 - 120	P
Manganese	mg/Kg	10.0	10.0		100	80 - 120	P
Nickel	mg/Kg	25.0	23.4		94	80 - 120	P
Potassium	mg/Kg	500	443		89	80 - 120	P
Selenium	mg/Kg	100	92.1		92	80 - 120	P
Silicon	mg/Kg	46.7	38.2		82	80 - 120	P
Silver	mg/Kg	3.8	3.57		94	80 - 120	P
Sulfur	mg/Kg	500	427		85	80 - 120	P
Sodium	mg/Kg	150	123		82	80 - 120	P
Strontium	mg/Kg	10.0	10.1		101	80 - 120	P
Lithium	mg/Kg	10.0	9.89		99	80 - 120	P
Thallium	mg/Kg	100	98.2		98	80 - 120	P
Tin	mg/Kg	35.0	31.7		91	80 - 120	P
Titanium	mg/Kg	10.0	9.74		97	80 - 120	P
Vanadium	mg/Kg	15.0	14.8		99	80 - 120	P
Zinc	mg/Kg	10.0	9.87		99	80 - 120	P

Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

HR-01-102924L

Lab Name: Chemtech Consulting Group

Contract: CHEM02

Lab Code: CHEM

Lb No.: lb133227

Lab Sample ID : P4618-01L

SDG No.: P4495

Matrix (soil/water): Solid

Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.030	0.071 U	100.0		CV



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Chemtech Consulting Group

SDG No.: P4495

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

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

METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client:	<u>Chemtech Consulting Group</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P4495</u>
		SAS No.:	<u>P4495</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB164552							
P4495-10	PT-MET-SOIL	SAM	SOLID	10/30/2024	0.54	35.0	100.00
P4618-01DUP	HR-01-102924DUP	DUP	SOLID	10/30/2024	0.56	35.0	95.40
P4618-01MS	HR-01-102924MS	MS	SOLID	10/30/2024	0.58	35.0	95.40
P4618-01MSD	HR-01-102924MSD	MSD	SOLID	10/30/2024	0.59	35.0	95.40
PB164552BL	PB164552BL	MB	SOLID	10/30/2024	0.55	35.0	100.00
PB164552BS	PB164552BS	LCS	SOLID	10/30/2024	0.56	35.0	100.00

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client:	<u>Chemtech Consulting Group</u>	SDG No.:	<u>P4495</u>
Contract:	<u>CHEM02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P4495</u>
		SAS No.:	<u>P4495</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165242							
P4495-10	PT-MET-SOIL	SAM	SOLID	11/26/2024	2.25	100.0	100.00
PB165242BL	PB165242BL	MB	SOLID	11/26/2024	2.00	100.0	100.00
PB165242BS	PB165242BS	LCS	SOLID	11/26/2024	2.00	100.0	100.00

metals
- 14 -
ANALYSIS RUN LOG

Client: Chemtech Consulting Group

Contract: CHEM02

Lab code: CHEM **Case no.:** P4495 **Sas no.:** P4495

Sdg no.: P4495

Instrument id number: **Method:**

Run number: LB133227

Start date: 10/31/2024 **End date:** 10/31/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1001	HG
S0.2	S0.2	1	1003	HG
S2.5	S2.5	1	1005	HG
S5	S5	1	1008	HG
S7.5	S7.5	1	1010	HG
S10	S10	1	1018	HG
ICV61	ICV61	1	1021	HG
ICB61	ICB61	1	1023	HG
CCV04	CCV04	1	1025	HG
CCB04	CCB04	1	1027	HG
CRA	CRA	1	1030	HG
PB164552BL	PB164552BL	1	1036	HG
PB164552BS	PB164552BS	1	1039	HG
CCV05	CCV05	1	1056	HG
CCB05	CCB05	1	1101	HG
P4618-01DUP	HR-01-102924DUP	1	1110	HG
P4618-01MS	HR-01-102924MS	1	1112	HG
P4618-01MSD	HR-01-102924MSD	1	1114	HG
CCV06	CCV06	1	1126	HG
CCB06	CCB06	1	1131	HG
P4618-01L	HR-01-102924L	5	1143	HG
P4495-10	PT-MET-SOIL	50	1200	HG
CCV07	CCV07	1	1202	HG
CCB07	CCB07	1	1205	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: Chemtech Consulting Group **Contract:** CHEM02

Lab code: CHEM **Case no.:** P4495 **Sas no.:** P4495 **Sdg no.:** P4495

Instrument id number: **Method:** **Run number:** LB133669

Start date: 11/27/2024 **End date:** 11/27/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1006	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S1	S1	1	1011	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S2	S2	1	1015	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S3	S3	1	1019	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S4	S4	1	1024	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
S5	S5	1	1028	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICV01	ICV01	1	1225	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
LLICV01	LLICV01	1	1238	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICB01	ICB01	1	1243	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CRI01	CRI01	1	1247	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICSA01	ICSA01	1	1325	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
ICSAB01	ICSAB01	1	1403	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV01	CCV01	1	1408	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB01	CCB01	1	1448	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
P4495-10	PT-MET-SOIL	1	1452	Ag,Al,As,B,Ba,Ca,Cd,Co,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti,V,Zn
P4495-10	PT-MET-SOIL	5	1507	Cr,Li,Ti
PB165242BL	PB165242BL	1	1511	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
PB165242BS	PB165242BS	1	1540	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV02	CCV02	1	1550	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB02	CCB02	1	1554	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV03	CCV03	1	1603	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB03	CCB03	1	1607	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV04	CCV04	1	1639	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB04	CCB04	1	1643	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCV05	CCV05	1	1734	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti
CCB05	CCB05	1	1746	Ag,Al,As,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Na,Ni,Pb,S,Sb,Se,Si,Sn,Sr,Ti

metals
- 14 -
ANALYSIS RUN LOG

Client: Chemtech Consulting Group **Contract:** CHEM02

Lab code: CHEM **Case no.:** P4495 **Sas no.:** P4495 **Sdg no.:** P4495

Instrument id number: **Method:** **Run number:** LB133739

Start date: 12/04/2024 **End date:** 12/04/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1257	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	1301	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	1305	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	1310	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	1314	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	1318	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	1322	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	1334	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	1343	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	1352	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	1357	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	1415	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	1420	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	1429	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4495-10	PT-MET-SOIL	10	1433	Be
CCV02	CCV02	1	1437	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	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-01	PT-AN-SOIL	SOIL	Anions Group1	9056A	10/21/24 10:00		11/05/24 11:29	10/23/24
P4495-01DL	PT-AN-SOILDL	SOIL	Anions Group1	9056A	10/21/24 10:00		11/05/24 11:51	10/23/24
P4495-02	PT-CORR-SOIL	SOIL	Corrosivity	9045D	10/21/24 10:00		11/06/24 16:33	10/23/24
P4495-03	PT-CN-SOIL	SOIL	Cyanide	9012B	10/21/24 10:00	11/12/24	11/12/24 15:46	10/23/24
P4495-03DL	PT-CN-SOILDL	SOIL	Cyanide	9012B	10/21/24 10:00	11/12/24	11/12/24 16:01	10/23/24
P4495-04	PT-CN-SOIL	SOIL	Cyanide	9014	10/21/24 10:00	11/12/24	11/12/24 17:15	10/23/24
P4495-04DL	PT-CN-SOILDL	SOIL	Cyanide	9014	10/21/24 10:00	11/12/24	11/12/24 17:15	10/23/24

LAB CHRONICLE

P4495-05	PT-FP-SOIL	SOIL			10/21/24 10:00		10/23/24
			Flash Point	1010B		11/06/24 09:05	
P4495-06	PT-CR6-SOIL	SOIL			10/21/24 10:00		10/23/24
			Hexavalent Chromium	7196A	11/21/24	11/21/24 14:04	
P4495-06DL	PT-CR6-SOILDL	SOIL			10/21/24 10:00		10/23/24
			Hexavalent Chromium	7196A	11/21/24	11/21/24 14:25	
P4495-07	PT-NUT-SOIL	SOIL			10/21/24 10:00		10/23/24
			Ammonia	SM4500-NH3	11/04/24	11/05/24 11:01	
			Phosphorus, Total	365.3	11/13/24	11/13/24 11:07	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	11/05/24	11/06/24 10:21	
			TOC	9060A		10/30/24 10:51	
P4495-07DL	PT-NUT-SOILDL	SOIL			10/21/24 10:00		10/23/24
			Ammonia	SM4500-NH3	11/04/24	11/05/24 12:29	
			Phosphorus, Total	365.3	11/13/24	11/13/24 11:07	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	11/05/24	11/06/24 11:04	
P4495-08	PT-NUT-SOIL	SOIL			10/21/24 10:00		10/23/24

LAB CHRONICLE

			TOC	Lloyd Kahn		10/30/24 10:51	
P4495-09	PT-OGR-SOIL	SOIL			10/21/24 10:00		10/23/24
			Oil and Grease	9071B		11/08/24 09:30	
P4495-24	PT-SOL-SOIL	SOIL			10/21/24 10:00		10/23/24
			TS	SM2540 B		10/23/24 11:00	
P4495-25	PT-NO2-SOIL	SOIL			10/21/24 10:00		10/23/24
			Anions Group2	9056A		11/05/24 11:08	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-AN-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-01	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Bromide	84.6		1	0.49	40.0	mg/Kg		11/05/24 11:29	9056A
Chloride	723	OR	1	0.096	12.0	mg/Kg		11/05/24 11:29	9056A
Fluoride	125	OR	1	0.38	8.00	mg/Kg		11/05/24 11:29	9056A
Nitrite	0.19	U	1	0.19	12.0	mg/Kg		11/05/24 11:29	9056A
Nitrate	279	OR	1	0.089	10.0	mg/Kg		11/05/24 11:29	9056A
Sulfate	1760	OR	1	0.61	60.0	mg/Kg		11/05/24 11:29	9056A
Orthophosphate as P	191		1	0.24	20.0	mg/Kg		11/05/24 11:29	9056A

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-AN-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-01DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Chloride	659	D	5	0.48	60.0	mg/Kg		11/05/24 11:51	9056A
Fluoride	121	D	5	1.90	40.0	mg/Kg		11/05/24 11:51	9056A
Nitrate	267	D	5	0.45	50.0	mg/Kg		11/05/24 11:51	9056A
Sulfate	1650	D	5	3.10	300	mg/Kg		11/05/24 11:51	9056A

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-CORR-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.50		1	0	0	pH		11/06/24 16:33	9045D

Comments: pH result reported at temperature 23.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-CN-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	119	OR	1	0.044	0.25	mg/Kg	11/12/24 09:00	11/12/24 15:46	9012B

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-CN-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-03DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	133	D	10	0.44	2.50	mg/Kg	11/12/24 09:00	11/12/24 16:01	9012B

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-CN-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	120	OR	1	0.057	0.25	mg/Kg	11/12/24 09:00	11/12/24 17:15	9014

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-CN-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-04DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	134	D	10	0.57	2.50	mg/Kg	11/12/24 09:00	11/12/24 17:15	9014

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-FP-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-05	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	113		1	0	0	o F		11/06/24 09:05	1010B

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-CR6-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-06	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	41.0	OR	1	0.079	0.40	mg/Kg	11/21/24 10:00	11/21/24 14:04	7196A

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-CR6-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-06DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	34.0	D	2	0.16	0.80	mg/Kg	11/21/24 10:00	11/21/24 14:25	7196A

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NUT-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-07	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1360	OR	1	0.90	5.00	mg/Kg	11/04/24 10:10	11/05/24 11:01	SM 4500-NH3 B plus G-11
Phosphorus, Total	167	OR	1	0.24	2.50	mg/Kg	11/13/24 08:30	11/13/24 11:07	365.3
TKN	1690	OR	1	9.40	25.0	mg/Kg	11/05/24 14:20	11/06/24 10:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	15900	OR	1	19.8	250	mg/Kg		10/30/24 10:51	9060A

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NUT-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-07DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2180	D	40	36.0	200	mg/Kg	11/04/24 10:10	11/05/24 12:29	SM 4500-NH3 B plus G-11
Phosphorus, Total	2640	D	100	24.0	250	mg/Kg	11/13/24 08:30	11/13/24 11:07	365.3
TKN	3370	D	10	94.0	250	mg/Kg	11/05/24 14:20	11/06/24 11:04	SM4500-N Org C-11 plus NH3 B plus G-11

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NUT-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
TOC	15900	OR	1	8.00	250	mg/Kg		10/30/24 10:51	Lloyd Kahn

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-OGR-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-09	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Oil and Grease	1290		1	3.25	25.0	mg/Kg		11/08/24 09:30	SW9071B

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-SOL-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-24	Matrix:	SOIL
		% Solid:	75.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TS	75.9		1	1.00	5.00	%		10/23/24 11:00	SM 2540 B-15

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24 10:00
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NO2-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-25	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Nitrite	149		1	0.19	12.0	mg/Kg		11/05/24 11:08	9056A

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

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133199

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: TOC	ICV1	mg/L	1010	1000	101	90-110	08/07/2024
Sample ID: TOC	CCV1	mg/L	1000	1000	100	90-110	10/30/2024
Sample ID: TOC	CCV2	mg/L	1020	1000	102	90-110	10/30/2024
Sample ID: TOC	CCV3	mg/L	1060	1000	106	90-110	10/30/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133228

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1010	1000	101	90-110	08/07/2024
Sample ID: CCV1 TOC	mg/L	1000	1000	100	90-110	10/30/2024
Sample ID: CCV2 TOC	mg/L	1020	1000	102	90-110	10/30/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133290

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10	10	100	90-110	10/16/2024
Chloride	mg/L	3	3	100	90-110	10/16/2024
Fluoride	mg/L	2	2	100	90-110	10/16/2024
Nitrite	mg/L	3	3	100	90-110	10/16/2024
Nitrate	mg/L	2.5	2.5	100	90-110	10/16/2024
Sulfate	mg/L	14.9	15	99	90-110	10/16/2024
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/16/2024
Sample ID: CCV1						
Bromide	mg/L	10.4	10	104	90-110	11/05/2024
Chloride	mg/L	3.1	3	103	90-110	11/05/2024
Fluoride	mg/L	2.1	2	105	90-110	11/05/2024
Nitrite	mg/L	3.1	3	103	90-110	11/05/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/05/2024
Sulfate	mg/L	15.3	15	102	90-110	11/05/2024
Orthophosphate as P	mg/L	5.1	5	102	90-110	11/05/2024
Sample ID: CCV2						
Bromide	mg/L	10.4	10	104	90-110	11/05/2024
Chloride	mg/L	3.1	3	103	90-110	11/05/2024
Fluoride	mg/L	2	2	100	90-110	11/05/2024
Nitrite	mg/L	3.1	3	103	90-110	11/05/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/05/2024
Sulfate	mg/L	15.4	15	103	90-110	11/05/2024
Orthophosphate as P	mg/L	5.1	5	102	90-110	11/05/2024
Sample ID: CCV3						
Bromide	mg/L	10.4	10	104	90-110	11/05/2024
Chloride	mg/L	3.1	3	103	90-110	11/05/2024
Fluoride	mg/L	2.1	2	105	90-110	11/05/2024
Nitrite	mg/L	3.1	3	103	90-110	11/05/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/05/2024
Sulfate	mg/L	15.4	15	103	90-110	11/05/2024
Orthophosphate as P	mg/L	5.1	5	102	90-110	11/05/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133302

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1	1	100	90-110	11/05/2024
Sample ID: CCV1 Ammonia as N	mg/L	1	1	100	90-110	11/05/2024
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	11/05/2024
Sample ID: CCV3 Ammonia as N	mg/L	1	1	100	90-110	11/05/2024
Sample ID: CCV4 Ammonia as N	mg/L	1	1	100	90-110	11/05/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133312

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: TKN	ICV1	mg/L	4.8	5	96	90-110	11/06/2024
Sample ID: TKN	CCV1	mg/L	5.3	5	106	90-110	11/06/2024
Sample ID: TKN	CCV2	mg/L	5.1	5	102	90-110	11/06/2024
Sample ID: TKN	CCV3	mg/L	5.2	5	104	90-110	11/06/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133316

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Flash Point	o F	82.1	81	101	78-84	11/06/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133322

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Corrosivity		pH	7.02	7	100	90-110	11/06/2024
Sample ID:	CCV1						
Corrosivity		pH	2.01	2.00	101	90-110	11/06/2024
Sample ID:	CCV2						
Corrosivity		pH	12.02	12.00	100	90-110	11/06/2024
Sample ID:	CCV3						
Corrosivity		pH	2.01	2.00	101	90-110	11/06/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133420

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.515	0.50	103	90-110	11/13/2024
Sample ID: CCV1 Phosphorus, Total	mg/L	0.511	0.50	102	90-110	11/13/2024
Sample ID: CCV2 Phosphorus, Total	mg/L	0.511	0.50	102	90-110	11/13/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133427

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Cyanide		mg/L	0.094	0.099	95	90-110	11/12/2024
Sample ID:	CCV1						
Cyanide		mg/L	0.24	0.25	96	90-110	11/12/2024
Sample ID:	CCV2						
Cyanide		mg/L	0.25	0.25	100	90-110	11/12/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133428

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.094	0.099	95	90-110	11/12/2024
Sample ID: Cyanide	CCV1	mg/L	0.24	0.25	96	90-110	11/12/2024
Sample ID: Cyanide	CCV2	mg/L	0.25	0.25	100	90-110	11/12/2024

Initial and Continuing Calibration Verification

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133555

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	11/21/2024
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	11/21/2024
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	11/21/2024
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/21/2024
Sample ID: CCV4 Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/21/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133199

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	08/07/2024
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/30/2024
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/30/2024
Sample ID: CCB3 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	10/30/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133228

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	08/07/2024
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	10/30/2024
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	10/30/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133290

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/16/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/16/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/16/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/16/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/16/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/05/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/05/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/05/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/05/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/05/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/05/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/05/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/05/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/05/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/05/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/05/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/05/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/05/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/05/2024
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/05/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/05/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/05/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/05/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/05/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/05/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/05/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133302

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/05/2024
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/05/2024
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/05/2024
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/05/2024
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/05/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133312

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	11/06/2024
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	11/06/2024
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	11/06/2024
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	11/06/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133420

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0047	0.05	11/13/2024
Sample ID: CCB1 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0047	0.05	11/13/2024
Sample ID: CCB2 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0047	0.05	11/13/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133427

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/12/2024
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/12/2024
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/12/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133428

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/12/2024
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/12/2024
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	11/12/2024

Initial and Continuing Calibration Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

RunNo.: LB133555

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	11/21/2024
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/21/2024
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/21/2024
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/21/2024
Sample ID: CCB4 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/21/2024

Preparation Blank Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133077BL							
TS	%	< 2.5000	2.5000	U	1	5	10/23/2024
Sample ID: LB133199BLS							
TOC	mg/Kg	18.4	125.0000	J	8	250	10/30/2024
Sample ID: LB133228BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	19.8	250	10/30/2024
Sample ID: LB133290BLS							
Bromide	mg/Kg	< 20.0000	20.0000	U	0.49	40	11/05/2024
Chloride	mg/Kg	< 6.0000	6.0000	U	0.096	12	11/05/2024
Fluoride	mg/Kg	< 4.0000	4.0000	U	0.38	8	11/05/2024
Nitrite	mg/Kg	< 6.0000	6.0000	U	0.19	12	11/05/2024
Nitrate	mg/Kg	< 5.0000	5.0000	U	0.089	10	11/05/2024
Sulfate	mg/Kg	< 30.0000	30.0000	U	0.61	60	11/05/2024
Orthophosphate as P	mg/Kg	< 10.0000	10.0000	U	0.24	20	11/05/2024
Sample ID: LB133347BL							
Oil and Grease	mg/Kg	4.99	12.5000	J	3.25	25	11/08/2024
Sample ID: PB164458BL							
Ammonia as N	mg/Kg	< 2.5000	2.5000	U	0.9	5	11/05/2024
Sample ID: PB164710BL							
TKN	mg/Kg	< 12.5000	12.5000	U	9.4	25	11/06/2024
Sample ID: PB164718BL							
Cyanide	mg/Kg	< 0.1250	0.1250	U	0.044	0.25	11/12/2024
Sample ID: PB164719BL							
Cyanide	mg/Kg	< 0.1250	0.1250	U	0.057	0.25	11/12/2024
Sample ID: PB164936BL							
Phosphorus, Total	mg/Kg	< 1.2500	1.2500	U	0.24	2.5	11/13/2024
Sample ID: PB165110BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	11/21/2024

Matrix Spike Summary

Client:

Chemtech Consulting Group

SDG No.:

P4495

Project:

NJ Soil PT

Sample ID:

P4605-02

Client ID:

TAPIAL2-SED01-102824-00-T2MS

Percent Solids for Spike Sample:

85.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	6270		5490		1000	1	78		10/30/2024

Matrix Spike Summary

Client:

Chemtech Consulting Group

SDG No.:

P4495

Project:

NJ Soil PT

Sample ID:

P4605-02

Client ID:

TAPIAL2-SED01-102824-00-T2MSD

Percent Solids for Spike Sample:

85.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	6440		5490		1000	1	95		10/30/2024

Matrix Spike Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4675-01
Client ID:	COMP-1MS	Percent Solids for Spike Sample:	77.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/Kg	80-120	259		0.63	U	260	1	100		11/05/2024
Ammonia as N	mg/Kg	75-125	67.5		1.90	J	62.3	1	105		11/05/2024
Chloride	mg/Kg	80-120	126		36.5		76.7	1	117		11/05/2024
Fluoride	mg/Kg	80-120	49.3		6.10	J	51.1	1	85		11/05/2024
Nitrite	mg/Kg	80-120	77.6		0.24	U	76.7	1	101		11/05/2024
Nitrate	mg/Kg	80-120	65.3		0.11	U	63.9	1	102		11/05/2024
Sulfate	mg/Kg	80-120	443		66.8	J	380	1	99		11/05/2024
Orthophosphate as P	mg/Kg	80-120	87.1		0.31	U	130	1	67	*	11/05/2024

Matrix Spike Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4675-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	77.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/Kg	80-120	257		0.63	U	250	1	103		11/05/2024
Ammonia as N	mg/Kg	75-125	62.9		1.90	J	62.9	1	97		11/05/2024
Chloride	mg/Kg	80-120	126		36.5		76.3	1	117		11/05/2024
Fluoride	mg/Kg	80-120	48.6		6.10	J	50.8	1	84		11/05/2024
Nitrite	mg/Kg	80-120	77.2		0.24	U	76.3	1	101		11/05/2024
Nitrate	mg/Kg	80-120	65.0		0.11	U	63.5	1	102		11/05/2024
Sulfate	mg/Kg	80-120	441		66.8	J	380	1	98		11/05/2024
Orthophosphate as P	mg/Kg	80-120	85.7		0.31	U	130	1	66	*	11/05/2024

Matrix Spike Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4722-13
Client ID:	WC-3(0-6)MS	Percent Solids for Spike Sample:	86.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	2140		2610		115	1	-409	*	11/08/2024

Matrix Spike Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4722-13
Client ID:	WC-3(0-6)MSD	Percent Solids for Spike Sample:	86.6

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	2160		2610		115	1	-393	*	11/08/2024

Matrix Spike Summary

Client:

Chemtech Consulting Group

SDG No.:

P4495

Project:

NJ Soil PT

Sample ID:

P4910-01

Client ID:

MH-COTTAGEMS

Percent Solids for Spike Sample:

87.8

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	1460		0.090	U	1460	40	100		11/21/2024

Matrix Spike Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4910-01
Client ID:	MH-COTTAGEMS	Percent Solids for Spike Sample:	87.8

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	45.0		0.090	U	45.6	2	99		11/21/2024

Matrix Spike Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4910-01
Client ID:	MH-COTTAGEMS	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	37.6		0.090	U	45.6	2	82		11/21/2024

Duplicate Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4605-02
Client ID:	TAPIAL2-SED01-102824-00-T2MSD	Percent Solids for Spike Sample:	85.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	6270		6440		1	3		10/30/2024

Duplicate Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4675-01
Client ID:	COMP-1DUP	Percent Solids for Spike Sample:	77.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/Kg	+/-20	1.90	J	1.10	U	1	200	*	11/05/2024

Duplicate Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4675-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	77.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Chloride	mg/Kg	+/-15	126		126		1	0		11/05/2024
Nitrate	mg/Kg	+/-15	65.3		65.0		1	0		11/05/2024
Sulfate	mg/Kg	+/-15	443		441		1	0		11/05/2024
Bromide	mg/Kg	+/-15	259		257		1	1		11/05/2024
Fluoride	mg/Kg	+/-15	49.3		48.6		1	1		11/05/2024
Nitrite	mg/Kg	+/-15	77.6		77.2		1	1		11/05/2024
Orthophosphate as P	mg/Kg	+/-15	87.1		85.7		1	2		11/05/2024
Ammonia as N	mg/Kg	+/-20	67.5		62.9		1	7		11/05/2024



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

Duplicate Sample Summary

Client:

Chemtech Consulting Group

Project:

NJ Soil PT

Client ID:

S0-1DUP

SDG No.:

P4495

Sample ID:

P4703-01

Percent Solids for Spike Sample:

100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Flash Point	o F	+/-2	>212.0		>212.0		1	0		11/06/2024

Duplicate Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4722-13
Client ID:	WC-3(0-6)DUP	Percent Solids for Spike Sample:	86.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	2610		2600		1	0.49		11/08/2024

Duplicate Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4722-13
Client ID:	WC-3(0-6)MSD	Percent Solids for Spike Sample:	86.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	2140		2160		1	0.85		11/08/2024

Duplicate Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4739-16
Client ID:	TP-11DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	10.1		10.1		1	0.1		11/06/2024

Duplicate Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Sample ID:	P4910-01
Client ID:	MH-COTTAGEDUP	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.090	U	0.090	U	1	0		11/21/2024

Laboratory Control Sample Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Run No.: LB133199

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133199BSS							
TOC	mg/Kg	1000	1010		101	1	90-110	10/30/2024

Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Run No.:	LB133228

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133228BSS							
TOC	mg/Kg	1000	1010		101	1	90-110	10/30/2024

Laboratory Control Sample Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Run No.: LB133290

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133290BSS							
Bromide	mg/Kg	200	208		104	1	90-110	11/05/2024
Chloride	mg/Kg	60	62.2		104	1	90-110	11/05/2024
Fluoride	mg/Kg	40	41.4		104	1	90-110	11/05/2024
Nitrite	mg/Kg	60	62.2		104	1	90-110	11/05/2024
Nitrate	mg/Kg	50	52.1		104	1	90-110	11/05/2024
Sulfate	mg/Kg	300	306		102	1	90-110	11/05/2024
Orthophosphate as P	mg/Kg	100	103		103	1	90-110	11/05/2024

Laboratory Control Sample Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Run No.: LB133347

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133347BS							
Oil and Grease	mg/Kg	100	94.8		95	1	80-120	11/08/2024

Laboratory Control Sample Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Run No.: LB133302

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164458BS							
Ammonia as N	mg/Kg	50	51.9		104	1	90-110	11/05/2024

Laboratory Control Sample Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Run No.: LB133312

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164710BS							
TKN	mg/Kg	250	254		102	1	90-110	11/06/2024

Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Run No.:	LB133427

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164718BS							
Cyanide	mg/Kg	5	4.70		94	1	85-115	11/12/2024

Laboratory Control Sample Summary

Client:	Chemtech Consulting Group	SDG No.:	P4495
Project:	NJ Soil PT	Run No.:	LB133428

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164719BS							
Cyanide	mg/Kg	5	4.90		98	1	85-115	11/12/2024

Laboratory Control Sample Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Run No.: LB133420

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164936BS							
Phosphorus, Total	mg/Kg	25.0	25.4		102	1	90-110	11/13/2024

Laboratory Control Sample Summary

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Run No.: LB133555

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB165110BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	11/21/2024

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	PT-DIES-SOIL	SOIL	Diesel Range Organics	8015D	10/21/24	10/24/24	10/24/24	10/23/24
P4495-15	PT-GAS-SOIL	SOIL	Gasoline Range Organics	8015D	10/21/24		10/24/24	10/23/24
P4495-16	PT-NJEPH-SOIL	Solid	EPH EPH EPH	NJEPH NJEPH NJEPH	10/21/24	10/25/24 10/25/24 10/25/24	10/28/24 10/29/24 10/28/24	10/23/24
P4495-16DL 2	PT-NJEPH-SOILDL2	Solid	EPH	NJEPH	10/21/24	10/25/24	10/28/24	10/23/24
P4495-17	PT-HERB-SOIL	SOIL	Herbicide Group1	8151A	10/21/24	11/14/24	11/25/24	10/23/24
P4495-17RE	PT-HERB-SOILRE	SOIL	Herbicide Group1	8151A	10/21/24	11/14/24	11/25/24	10/23/24
P4495-18	PT-PCB-SOIL	SOIL	PCB	8082A	10/21/24	10/25/24	10/25/24	10/23/24
P4495-18DL	PT-PCB-SOIL DL	SOIL	PCB	8082A	10/21/24	10/25/24	10/25/24	10/23/24
P4495-19	PT-PCBO-SOIL	SOIL	PCB	8082A	10/21/24	10/25/24	10/28/24	10/23/24
P4495-19DL	PT-PCBO-SOILDL	SOIL			10/21/24			10/23/24

LAB CHRONICLE

			PCB	8082A		10/25/24	10/28/24	
P4495-20	PT-PEST-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL 2	PT-PEST-SOILDL2	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	PT-CHLR-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	PT-TXP-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	PT-TXP-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-GAS-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-15	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031019.D	1000	10/24/24 12:53	FB102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	798000		7720	45000	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	43.1	*	50 - 150	215%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



QC SUMMARY

SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: Chemtech Consulting Group
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF1024S2	91				0
BSF1024S1	89				0
PT-GAS-SOIL	215 *				1
BSF1024S2	84				0

QC LIMITS

AAA-TFT

For Water : 50-150
For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATION

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Matrix Spike - EPA Sample No : BSF1024S1 **Datafile:** FB031014.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	165	92	50-150

SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATION

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Matrix Spike - EPA Sample No : BSF1024S2 **Datafile:** FB031021.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	170	94	50-150

LCS/LCSD % Recovery RPD : 2.9

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF1024S2

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab File ID: FB031013.D

Lab Sample ID: VBF1024S2

Date Analyzed: 10/24/24

Time Analyzed: 10:00

GC Column: RTX-502.2 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

Instrument ID: FB

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF1024S1	BSF1024S1	FB031014.D	10/24/24
PT-GAS-SOIL	P4495-15	FB031019.D	10/24/24
BSF1024S2	BSF1024S2	FB031021.D	10/24/24

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	VBF1024S2	SDG No.:	P4495
Lab Sample ID:	VBF1024S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031013.D	50	10/24/24 10:00	FB102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	386	U	386	2250	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.1		50 - 150	91%	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	BSF1024S1	SDG No.:	P4495
Lab Sample ID:	BSF1024S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031014.D	1	10/24/24 10:27	FB102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	165		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.9		50 - 150	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	BSF1024S2	SDG No.:	P4495
Lab Sample ID:	BSF1024S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :		Final Vol:	5
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031021.D	1	10/24/24 13:47	FB102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	170		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.8		50 - 150	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



CALIBRATION SUMMARY

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CHEM02
 ProjectID: NJ Soil PT
 Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Calibration Sequence : FB100424			Test : Gasoline Range Organics	
Concentration (PPB)	Area Count	Reference Factor	File ID	
45	2146473	47699	FB030963.D	
90	4296843	47743	FB030964.D	
180	7654194	42523	FB030965.D	
450	20942452	46539	FB030966.D	
900	40922623	45470	FB030967.D	
AVG RF : 45995		% RSD : 4.686		AVG RT : 8.7964

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030963.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 9:45
Operator : YP/AJ
Sample : 5 GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
5 GRO STD

Integration File: Calibration.e
Quant Time: Oct 04 10:37:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Quant Title :
QLast Update : Fri Oct 04 10:36:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.797	165874	5.429 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.729	267824	8.153 ng/ml
2) t 2,2,4-Trimethylpentane	7.426	369502	8.294 ng/ml
3) t n-Heptane	7.758	106895	2.540 ng/ml
4) t Benzene	7.897	135424	2.686 ng/ml
6) t Toluene	10.623	418553	8.382 ng/ml
7) t Ethylbenzene	13.059	123962	2.833 ng/ml
8) t m-Xylene	13.194	273356	5.659 ng/ml
9) t O-Xylene	13.921	260179	5.826 ng/ml
10) t 1,2,4-Trimethylbenzene	16.197	190778	6.232 ng/ml

(f)=RT Delta > 1/2 Window

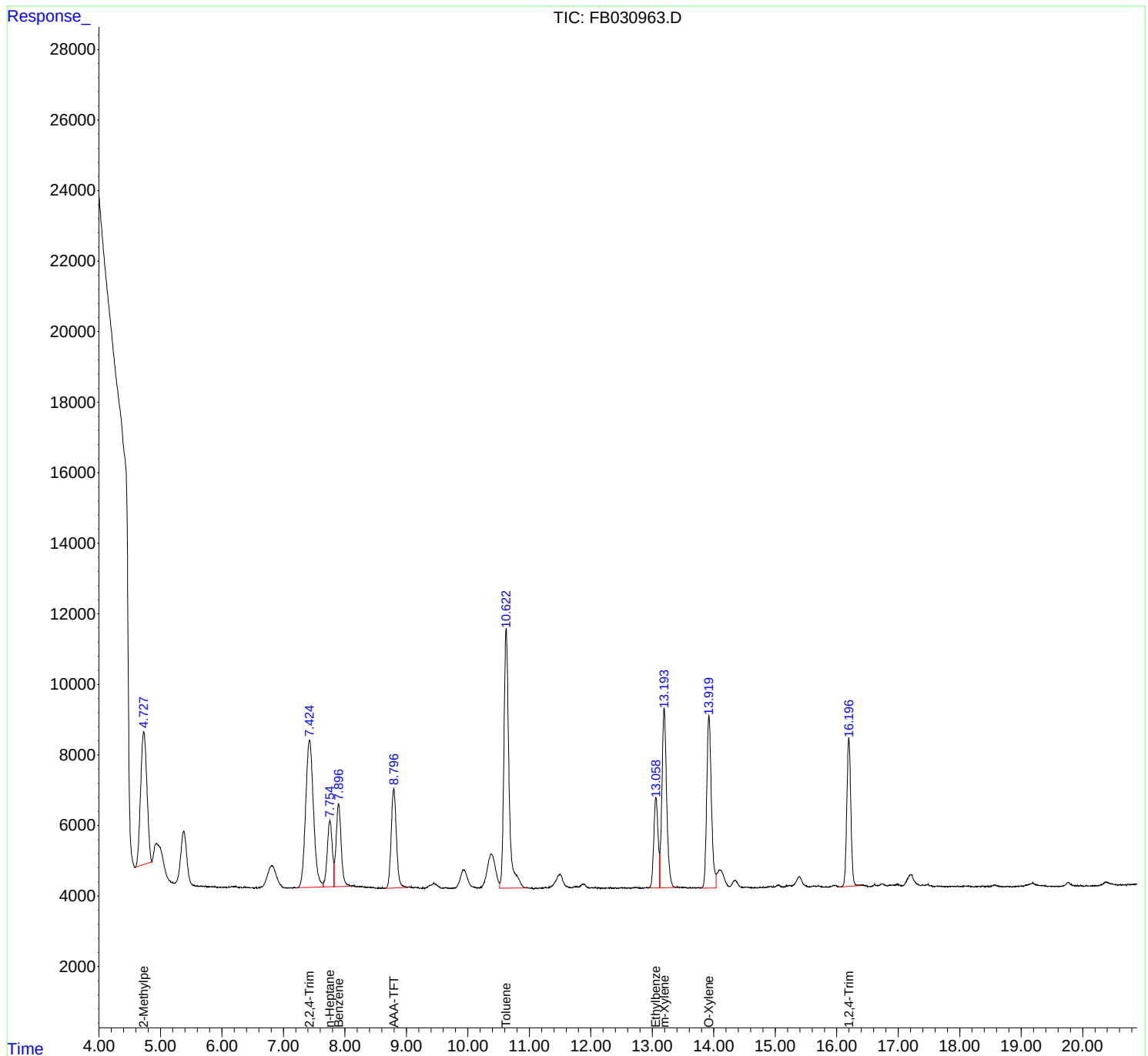
(m)=manual int.

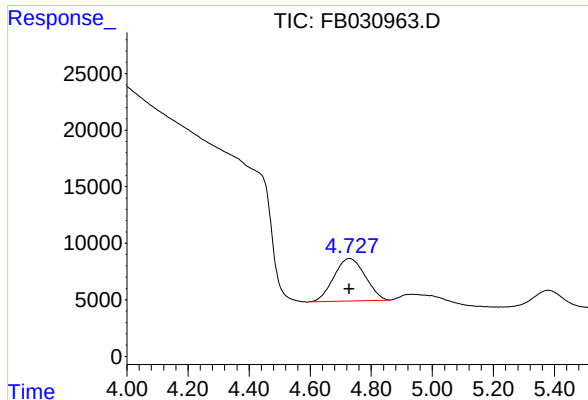
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030963.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 9:45
Operator : YP/AJ
Sample : 5 GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
5 GRO STD

Integration File: Calibration.e
Quant Time: Oct 04 10:37:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Quant Title :
QLast Update : Fri Oct 04 10:36:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

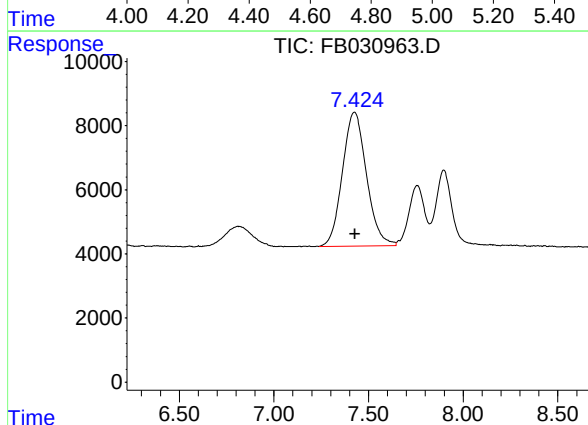




#1 2-Methylpentane

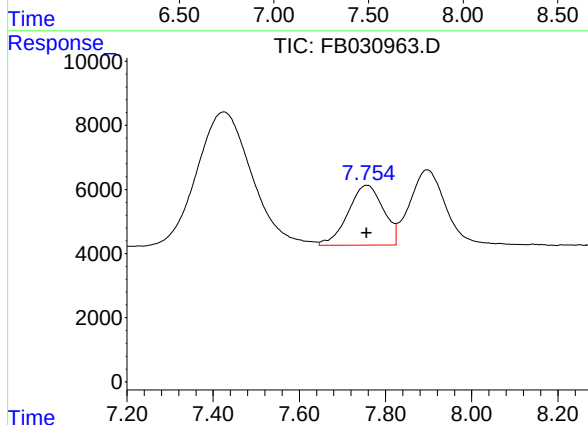
R.T.: 4.729 min
Delta R.T.: 0.001 min
Response: 267824
Conc: 8.15 ng/ml

Instrument :
FID_B
ClientSampleId :
5 GRO STD



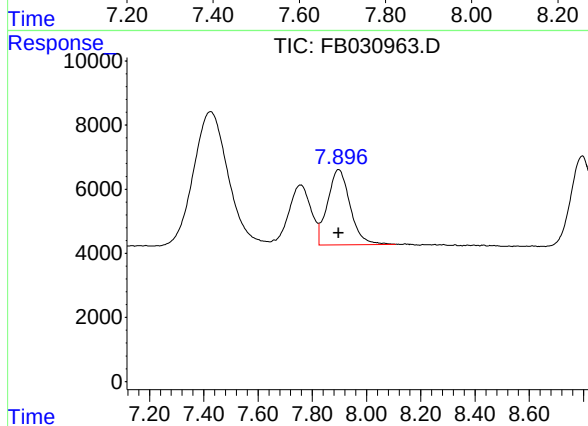
#2 2,2,4-Trimethylpentane

R.T.: 7.426 min
Delta R.T.: -0.002 min
Response: 369502
Conc: 8.29 ng/ml



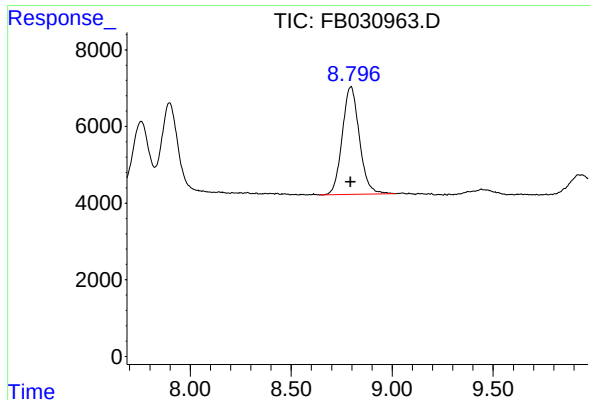
#3 n-Heptane

R.T.: 7.758 min
Delta R.T.: 0.000 min
Response: 106895
Conc: 2.54 ng/ml



#4 Benzene

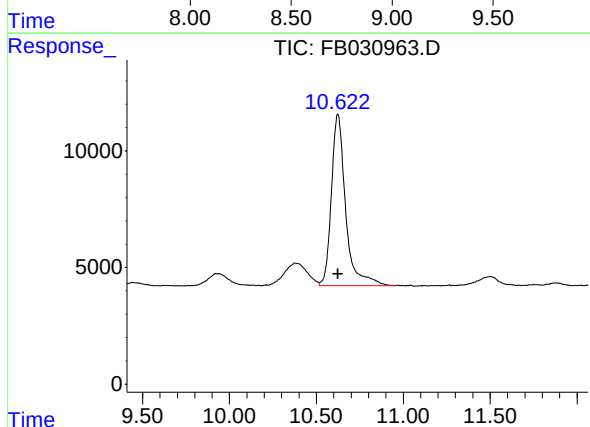
R.T.: 7.897 min
Delta R.T.: 0.000 min
Response: 135424
Conc: 2.69 ng/ml



#5 AAA-TFT

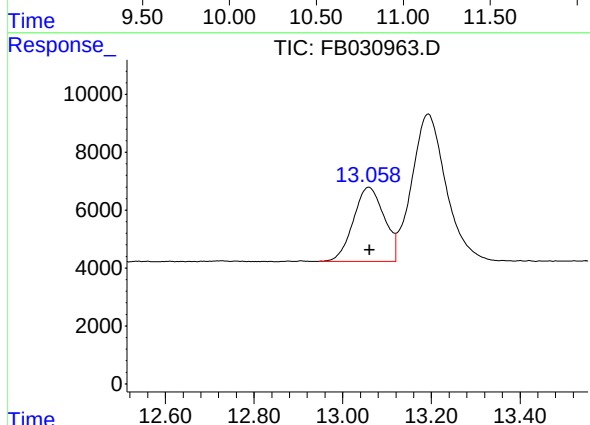
R.T.: 8.797 min
Delta R.T.: 0.002 min
Response: 165874
Conc: 5.43 ng/ml

Instrument :
FID_B
ClientSampleId :
5 GRO STD



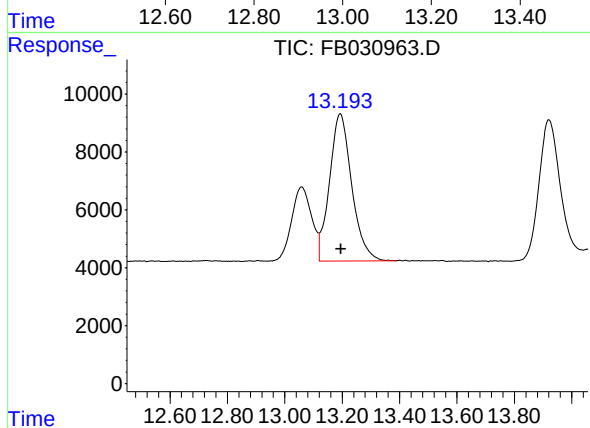
#6 Toluene

R.T.: 10.623 min
Delta R.T.: -0.001 min
Response: 418553
Conc: 8.38 ng/ml



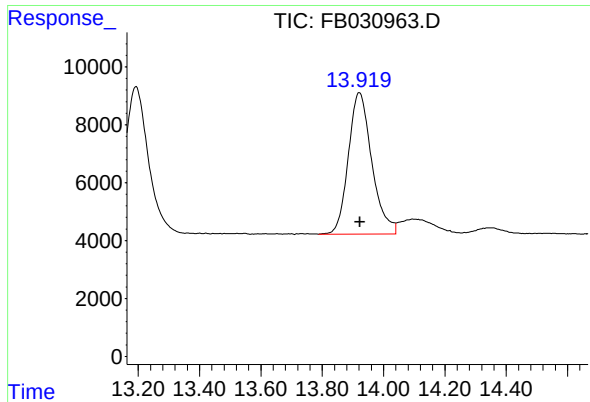
#7 Ethylbenzene

R.T.: 13.059 min
Delta R.T.: -0.001 min
Response: 123962
Conc: 2.83 ng/ml



#8 m-Xylene

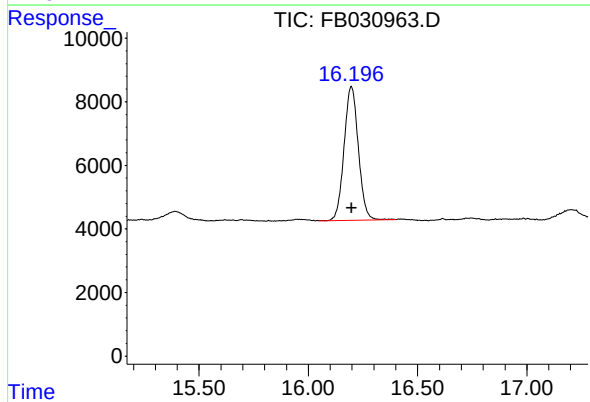
R.T.: 13.194 min
Delta R.T.: -0.001 min
Response: 273356
Conc: 5.66 ng/ml



#9 O-Xylene

R.T.: 13.921 min
Delta R.T.: -0.002 min
Response: 260179
Conc: 5.83 ng/ml

Instrument :
FID_B
ClientSampleId :
5 GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.197 min
Delta R.T.: -0.001 min
Response: 190778
Conc: 6.23 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030963.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 9:45
Sample : 5 GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.729	4.601	4.861	BV	3767	267824	63.99%	11.582%
2	7.426	7.239	7.646	VV	4177	369502	88.28%	15.980%
3	7.758	7.646	7.825	VV	1868	106895	25.54%	4.623%
4	7.897	7.825	8.108	VV	2346	135424	32.36%	5.857%
5	8.797	8.637	9.018	BV	2811	165874	39.63%	7.173%
6	10.623	10.516	10.958	VV	7358	418553	100.00%	18.101%
7	13.059	12.946	13.120	BV	2565	123962	29.62%	5.361%
8	13.194	13.120	13.388	VV	5090	273356	65.31%	11.822%
9	13.921	13.789	14.040	BV	4892	260179	62.16%	11.252%
10	16.197	16.049	16.401	BBA	4216	190778	45.58%	8.250%

Sum of corrected areas: 2312347

FB100424.M Sat Oct 05 06:06:51 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
 Data File : FB030964.D
 Signal(s) : FID2B.CH
 Acq On : 4 Oct 2024 10:11
 Operator : YP/AJ
 Sample : 10 GRO STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 10 GRO STD

Integration File: Calibration.e
 Quant Time: Oct 04 10:38:02 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
 Quant Title :
 QLast Update : Fri Oct 04 10:37:47 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.796	295837	9.285 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.728	545405	15.911 ng/ml
2) t 2,2,4-Trimethylpentane	7.426	722030	15.392 ng/ml
3) t n-Heptane	7.756	224071	5.282 ng/ml
4) t Benzene	7.898	275133	5.261 ng/ml
6) t Toluene	10.625	853765	16.148 ng/ml
7) t Ethylbenzene	13.060	249620	5.348 ng/ml
8) t m-Xylene	13.194	549501	10.672 ng/ml
9) t O-Xylene	13.923	517172	10.697 ng/ml
10) t 1,2,4-Trimethylbenzene	16.198	360146	10.474 ng/ml

(f)=RT Delta > 1/2 Window

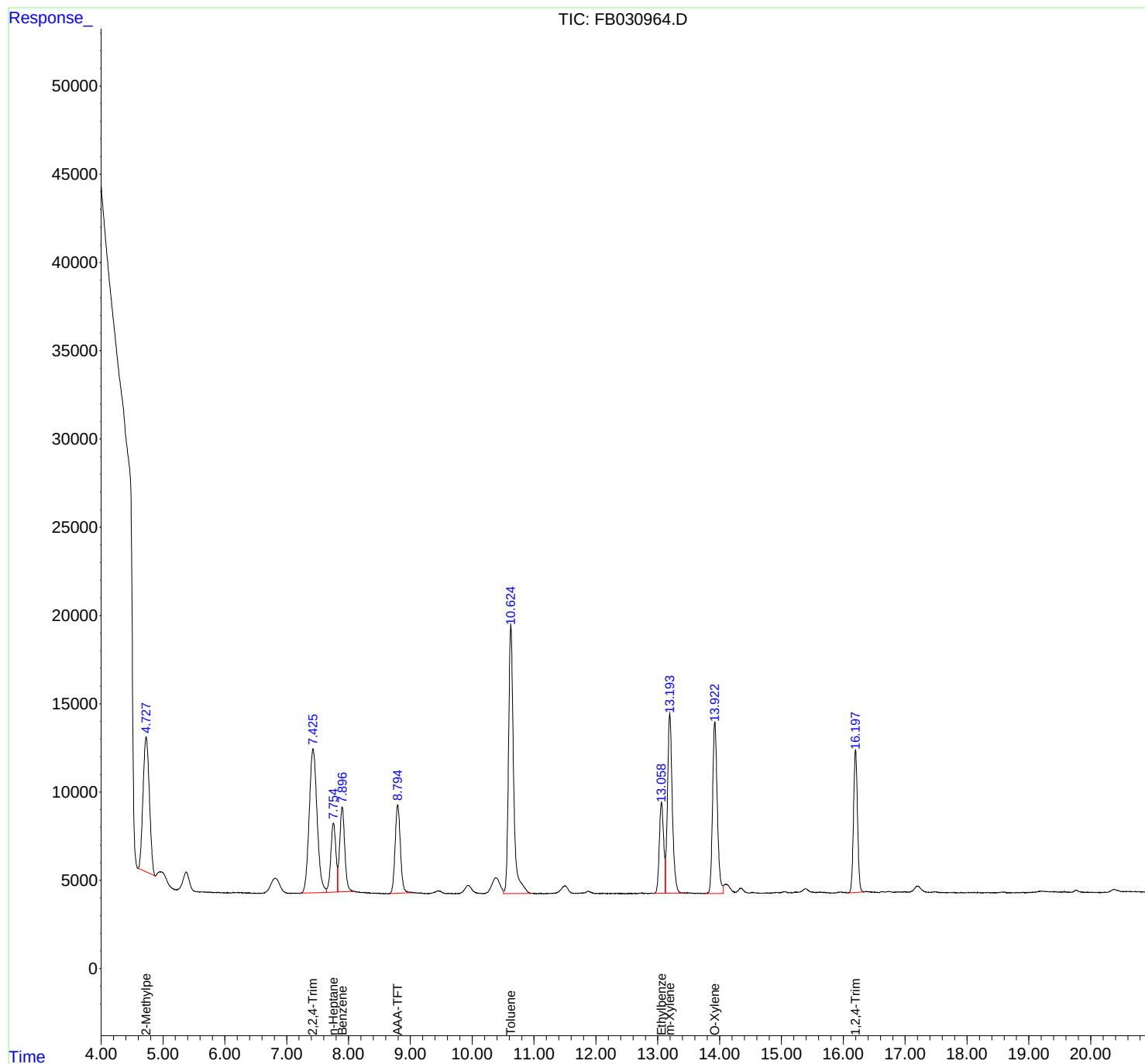
(m)=manual int.

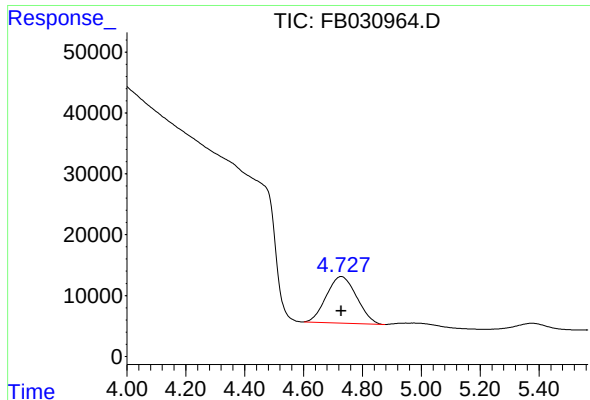
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030964.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 10:11
Operator : YP/AJ
Sample : 10 GRO STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
10 GRO STD

Integration File: Calibration.e
Quant Time: Oct 04 10:38:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Quant Title :
QLast Update : Fri Oct 04 10:37:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

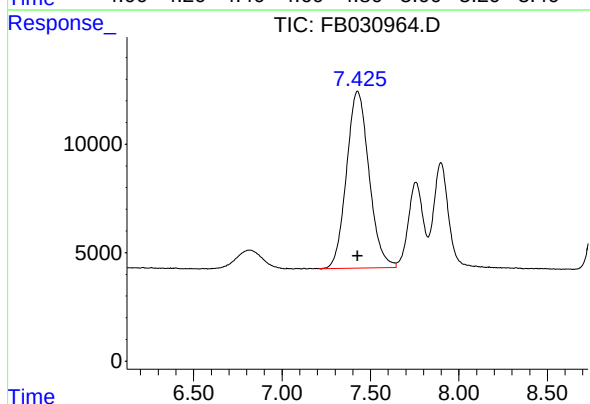




#1 2-Methylpentane

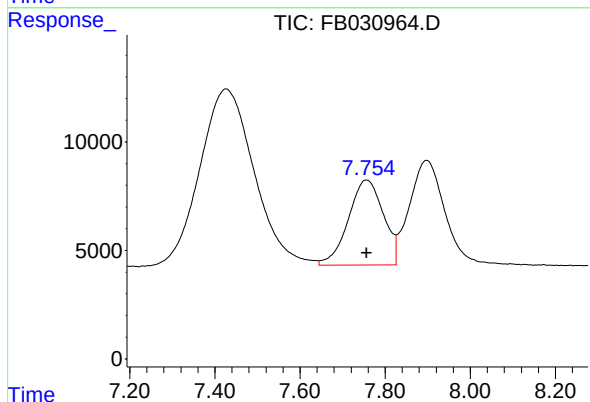
R.T.: 4.728 min
Delta R.T.: 0.000 min
Response: 545405
Conc: 15.91 ng/ml

Instrument :
FID_B
ClientSampleId :
10 GRO STD



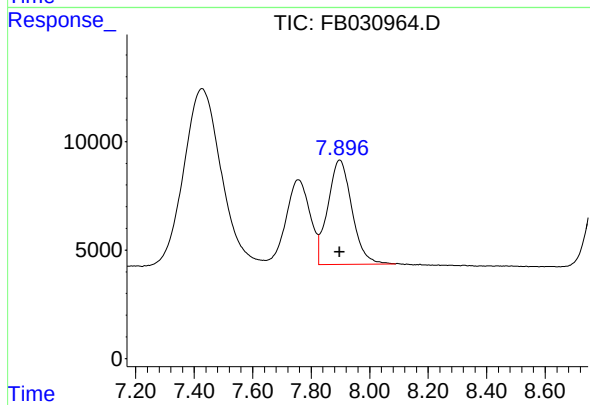
#2 2,2,4-Trimethylpentane

R.T.: 7.426 min
Delta R.T.: -0.001 min
Response: 722030
Conc: 15.39 ng/ml



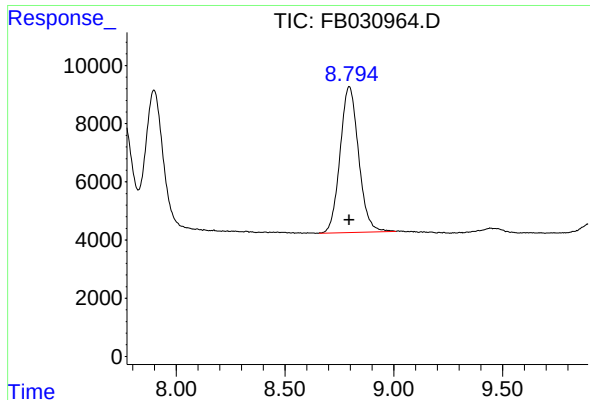
#3 n-Heptane

R.T.: 7.756 min
Delta R.T.: 0.000 min
Response: 224071
Conc: 5.28 ng/ml



#4 Benzene

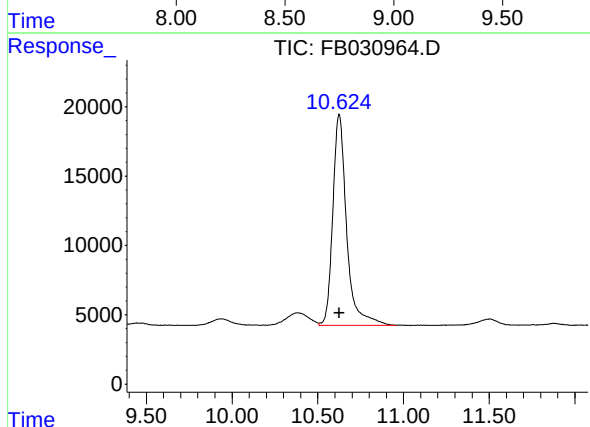
R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 275133
Conc: 5.26 ng/ml



#5 AAA-TFT

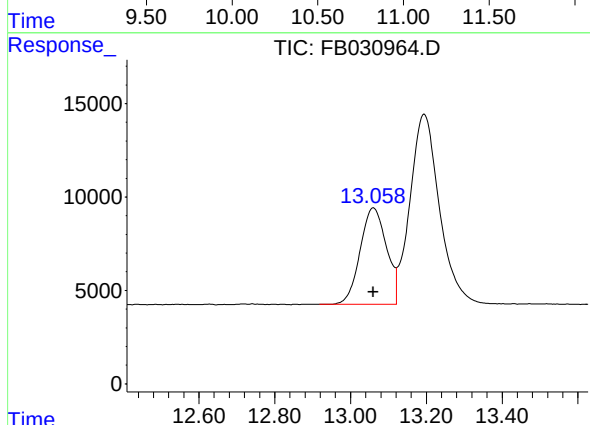
R.T.: 8.796 min
Delta R.T.: 0.000 min
Response: 295837
Conc: 9.28 ng/ml

Instrument :
FID_B
ClientSampleId :
10 GRO STD



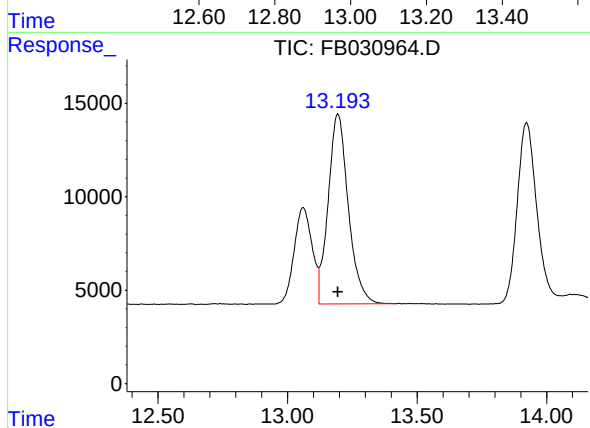
#6 Toluene

R.T.: 10.625 min
Delta R.T.: 0.000 min
Response: 853765
Conc: 16.15 ng/ml



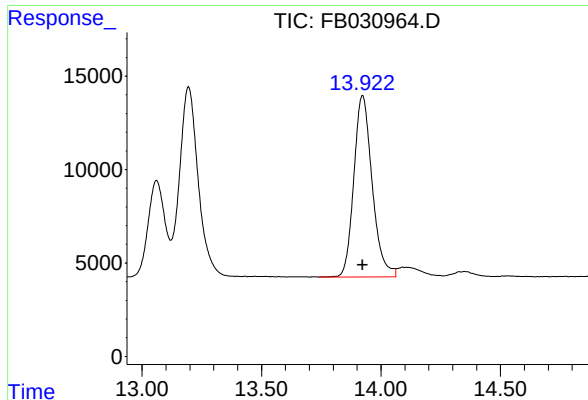
#7 Ethylbenzene

R.T.: 13.060 min
Delta R.T.: 0.000 min
Response: 249620
Conc: 5.35 ng/ml



#8 m-Xylene

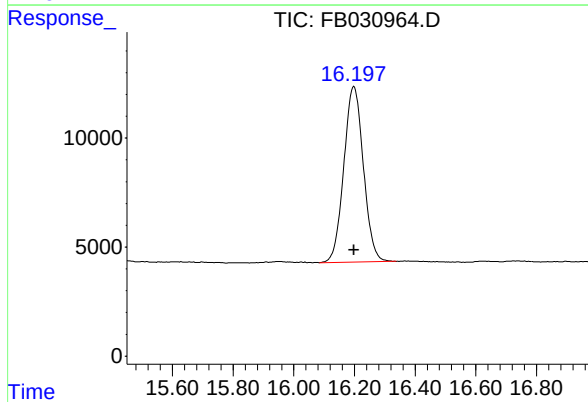
R.T.: 13.194 min
Delta R.T.: 0.000 min
Response: 549501
Conc: 10.67 ng/ml



#9 O-Xylene

R.T.: 13.923 min
Delta R.T.: 0.000 min
Response: 517172
Conc: 10.70 ng/ml

Instrument :
FID_B
ClientSampleId :
10 GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.198 min
Delta R.T.: 0.000 min
Response: 360146
Conc: 10.47 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030964.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 10:11
Sample : 10 GRO STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.728	4.601	4.878	BV	7647	545405	63.88%	11.876%
2	7.426	7.209	7.644	BV	8159	722030	84.57%	15.721%
3	7.756	7.644	7.826	VV	3920	224071	26.24%	4.879%
4	7.898	7.826	8.089	VV	4813	275133	32.23%	5.991%
5	8.796	8.657	9.010	BV	5019	295837	34.65%	6.441%
6	10.625	10.506	10.956	VV	15221	853765	100.00%	18.590%
7	13.060	12.918	13.121	BV	5167	249620	29.24%	5.435%
8	13.194	13.121	13.419	VV	10177	549501	64.36%	11.965%
9	13.923	13.739	14.062	PV	9726	517172	60.58%	11.261%
10	16.198	16.085	16.339	PV	8062	360146	42.18%	7.842%

Sum of corrected areas: 4592681

FB100424.M Sat Oct 05 06:07:32 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
 Data File : FB030965.D
 Signal(s) : FID2B.CH
 Acq On : 4 Oct 2024 10:38
 Operator : YP/AJ
 Sample : 20 GRO STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 GRO STD

Integration File: Calibration.e
 Quant Time: Oct 04 10:36:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
 Quant Title :
 QLast Update : Fri Oct 04 10:36:04 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.795	611009	20.000 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.728	985433	30.000 ng/ml
2) t 2,2,4-Trimethylpentane	7.428	1336470	30.000 ng/ml
3) t n-Heptane	7.757	420858	10.000 ng/ml
4) t Benzene	7.898	504170	10.000 ng/ml
6) t Toluene	10.625	1498114	30.000 ng/ml
7) t Ethylbenzene	13.061	437603	10.000 ng/ml
8) t m-Xylene	13.195	966126	20.000 ng/ml
9) t O-Xylene	13.923	893199	20.000 ng/ml
10) t 1,2,4-Trimethylbenzene	16.198	612221	20.000 ng/ml

(f)=RT Delta > 1/2 Window

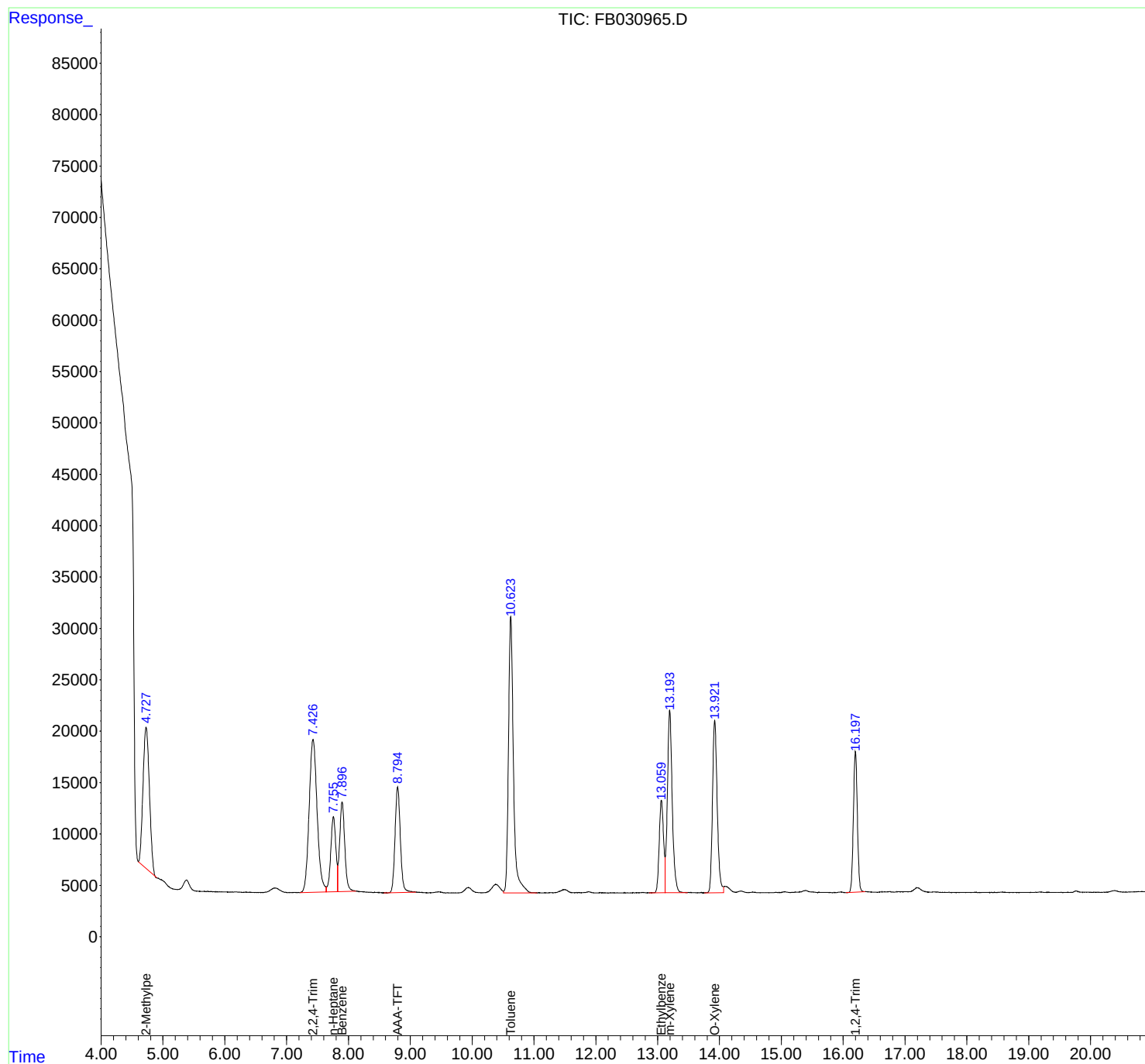
(m)=manual int.

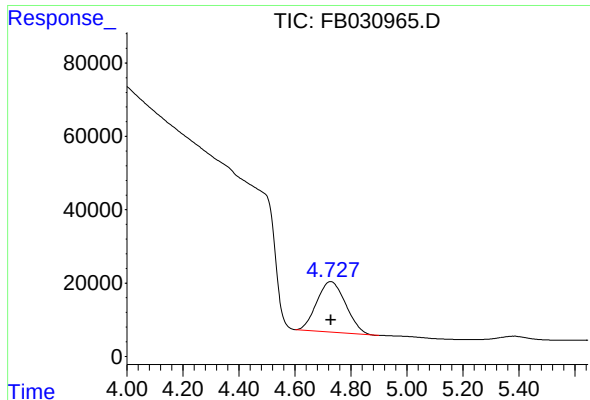
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030965.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 10:38
Operator : YP/AJ
Sample : 20 GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
20 GRO STD

Integration File: Calibration.e
Quant Time: Oct 04 10:36:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Quant Title :
QLast Update : Fri Oct 04 10:36:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

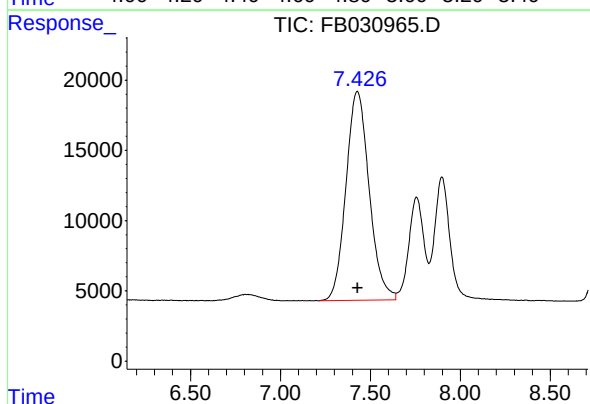




#1 2-Methylpentane

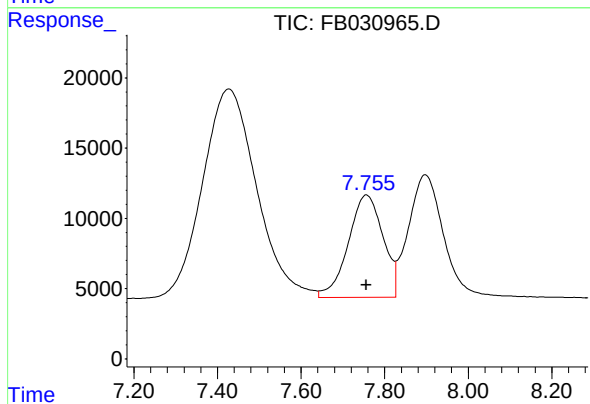
R.T.: 4.728 min
Delta R.T.: 0.000 min
Response: 985433
Conc: 30.00 ng/ml

Instrument :
FID_B
ClientSampleId :
20 GRO STD



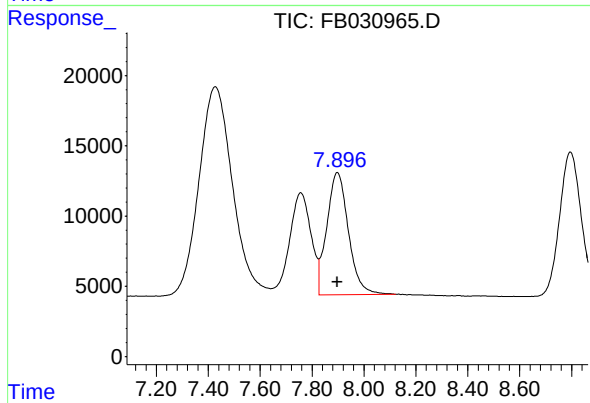
#2 2,2,4-Trimethylpentane

R.T.: 7.428 min
Delta R.T.: 0.000 min
Response: 1336470
Conc: 30.00 ng/ml



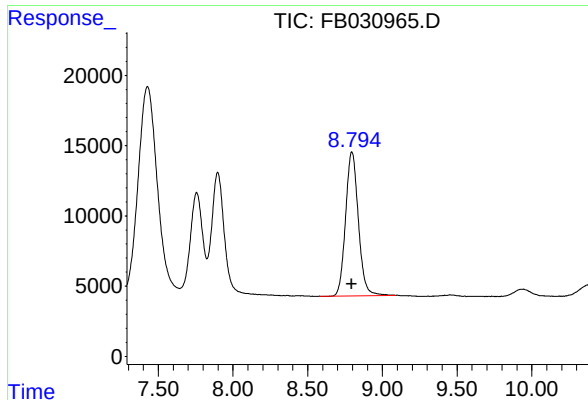
#3 n-Heptane

R.T.: 7.757 min
Delta R.T.: 0.000 min
Response: 420858
Conc: 10.00 ng/ml



#4 Benzene

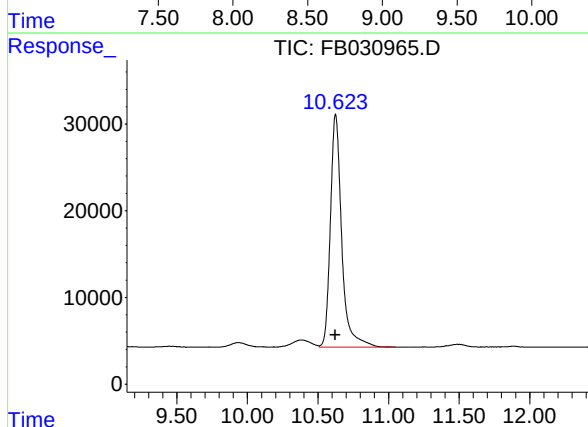
R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 504170
Conc: 10.00 ng/ml



#5 AAA-TFT

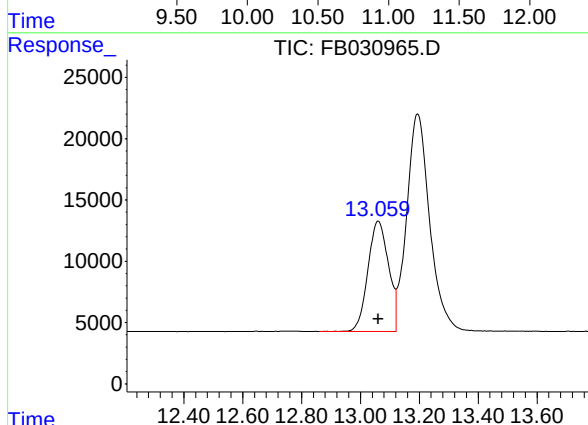
R.T.: 8.795 min
Delta R.T.: 0.000 min
Response: 611009
Conc: 20.00 ng/ml

Instrument :
FID_B
ClientSampleId :
20 GRO STD



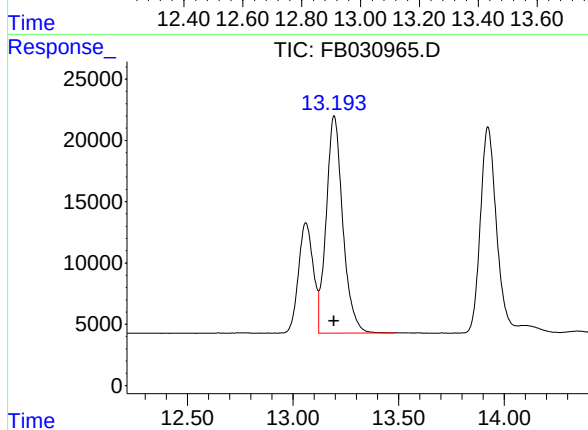
#6 Toluene

R.T.: 10.625 min
Delta R.T.: 0.000 min
Response: 1498114
Conc: 30.00 ng/ml



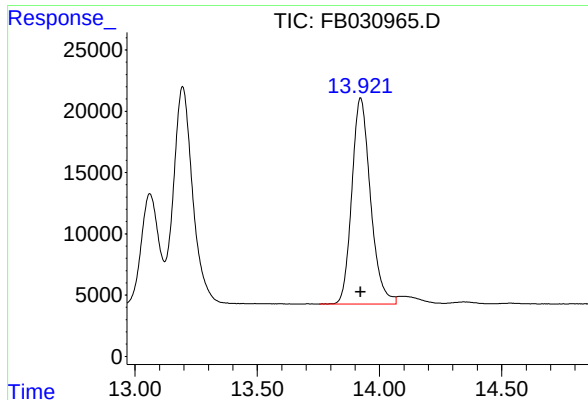
#7 Ethylbenzene

R.T.: 13.061 min
Delta R.T.: 0.000 min
Response: 437603
Conc: 10.00 ng/ml



#8 m-Xylene

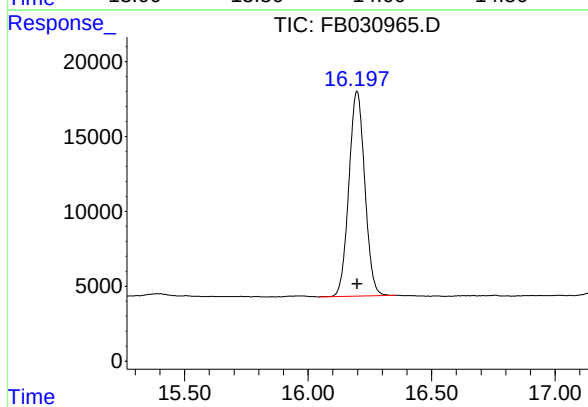
R.T.: 13.195 min
Delta R.T.: 0.000 min
Response: 966126
Conc: 20.00 ng/ml



#9 O-Xylene

R.T.: 13.923 min
Delta R.T.: 0.000 min
Response: 893199
Conc: 20.00 ng/ml

Instrument :
FID_B
ClientSampleId :
20 GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.198 min
Delta R.T.: 0.000 min
Response: 612221
Conc: 20.00 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030965.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 10:38
Sample : 20 GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.728	4.601	4.900	BBA	13748	985433	65.78%	11.923%
2	7.428	7.214	7.642	PV	14890	1336470	89.21%	16.170%
3	7.757	7.642	7.826	VV	7308	420858	28.09%	5.092%
4	7.898	7.826	8.123	VV	8709	504170	33.65%	6.100%
5	8.795	8.576	9.091	BV	10273	611009	40.79%	7.393%
6	10.625	10.508	11.053	VV	26863	1498114	100.00%	18.126%
7	13.061	12.860	13.121	PV	9012	437603	29.21%	5.295%
8	13.195	13.121	13.486	VV	17726	966126	64.49%	11.689%
9	13.923	13.753	14.067	BV	16825	893199	59.62%	10.807%
10	16.198	16.043	16.355	PV	13679	612221	40.87%	7.407%

Sum of corrected areas: 8265204

FB100424.M Sat Oct 05 06:08:17 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
 Data File : FB030966.D
 Signal(s) : FID2B.CH
 Acq On : 4 Oct 2024 11:05
 Operator : YP/AJ
 Sample : 50 GRO STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 50 GRO STD

Integration File: Calibration.e
 Quant Time: Oct 04 11:01:40 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
 Quant Title :
 QLast Update : Fri Oct 04 10:41:05 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.797	1352495	43.484 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.729	2850875	81.517 ng/ml
2) t 2,2,4-Trimethylpentane	7.431	3634732	76.816 ng/ml
3) t n-Heptane	7.758	1192795	27.599 ng/ml
4) t Benzene	7.899	1447228	27.201 ng/ml
6) t Toluene	10.627	4058953	74.860 ng/ml
7) t Ethylbenzene	13.063	1184934	24.812 ng/ml
8) t m-Xylene	13.197	2605506	49.494 ng/ml
9) t O-Xylene	13.926	2427068	49.060 ng/ml
10) t 1,2,4-Trimethylbenzene	16.200	1540361	44.102 ng/ml

(f)=RT Delta > 1/2 Window

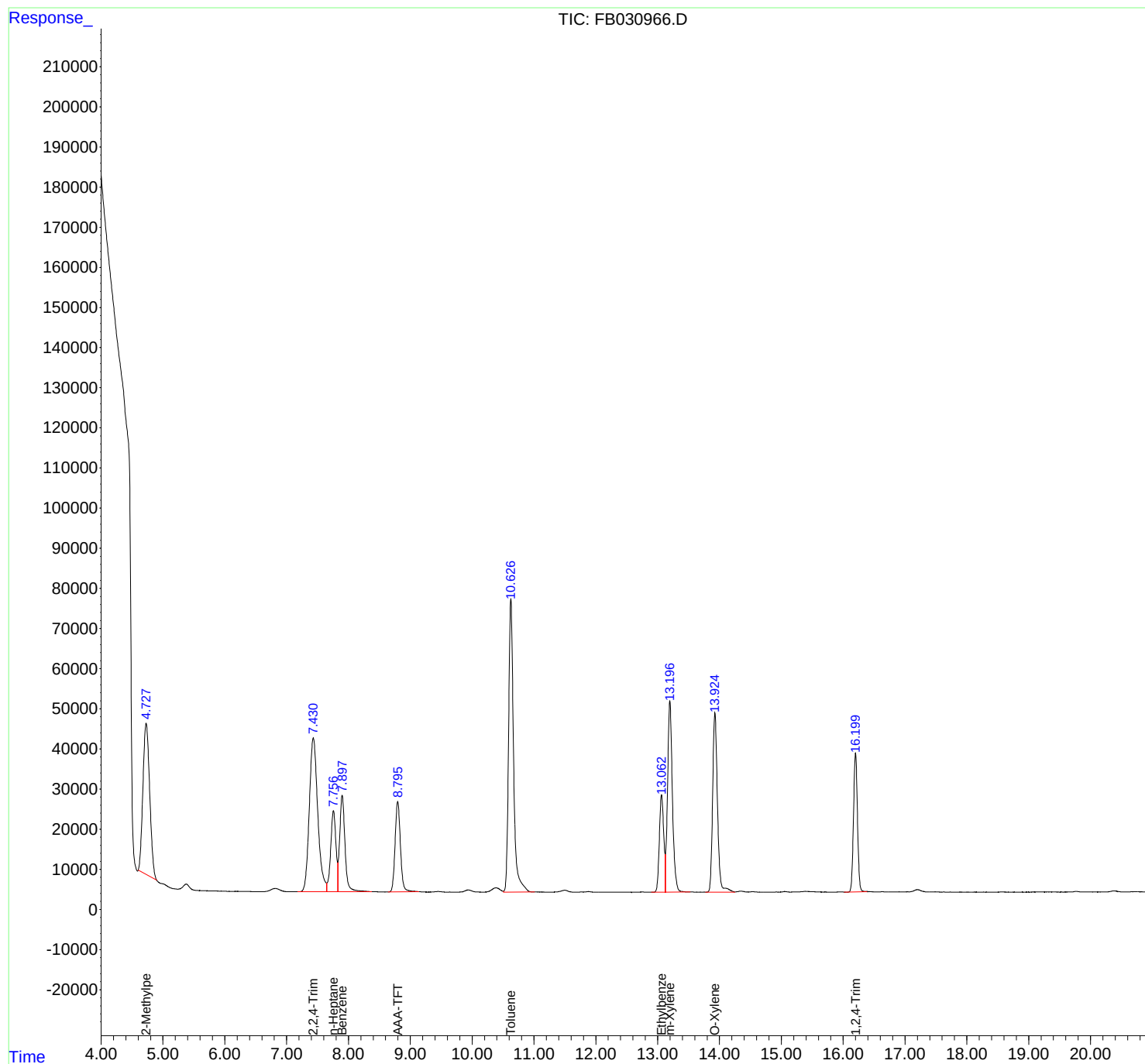
(m)=manual int.

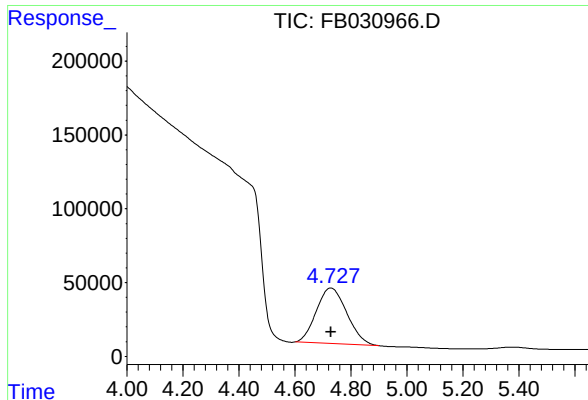
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030966.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 11:05
Operator : YP/AJ
Sample : 50 GRO STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
50 GRO STD

Integration File: Calibration.e
Quant Time: Oct 04 11:01:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Quant Title :
QLast Update : Fri Oct 04 10:41:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

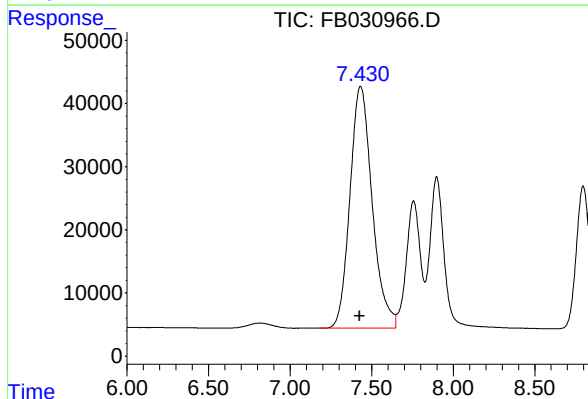




#1 2-Methylpentane

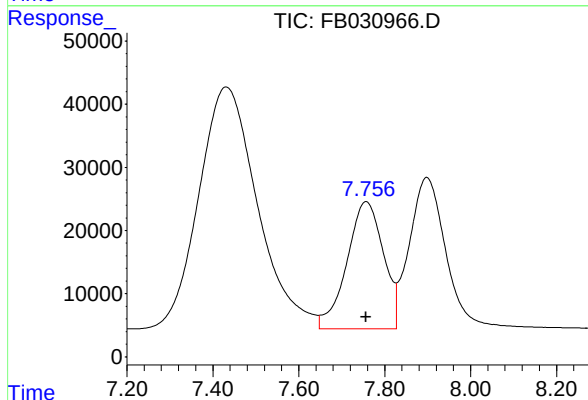
R.T.: 4.729 min
Delta R.T.: 0.000 min
Response: 2850875
Conc: 81.52 ng/ml

Instrument :
FID_B
ClientSampleId :
50 GRO STD



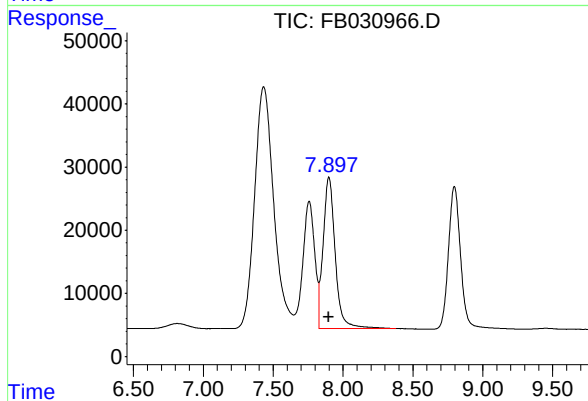
#2 2,2,4-Trimethylpentane

R.T.: 7.431 min
Delta R.T.: 0.004 min
Response: 3634732
Conc: 76.82 ng/ml



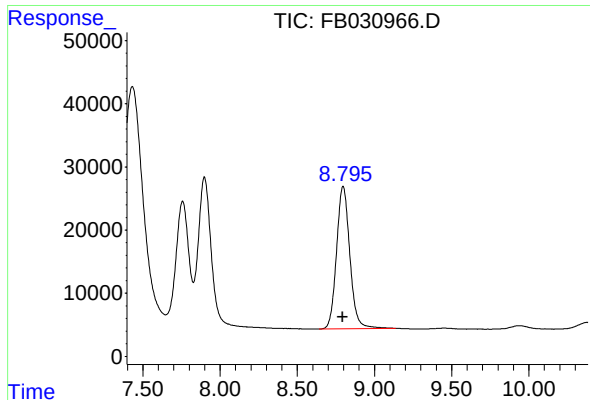
#3 n-Heptane

R.T.: 7.758 min
Delta R.T.: 0.000 min
Response: 1192795
Conc: 27.60 ng/ml



#4 Benzene

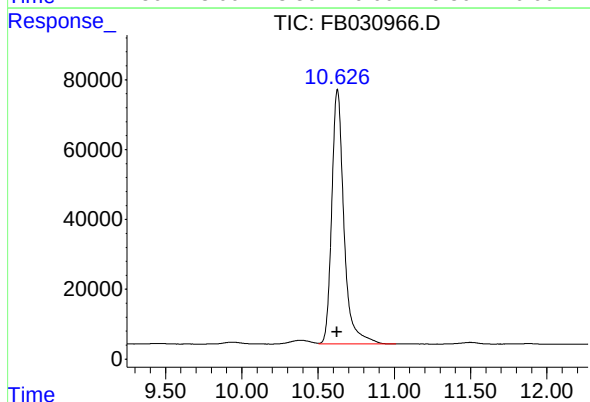
R.T.: 7.899 min
Delta R.T.: 0.001 min
Response: 1447228
Conc: 27.20 ng/ml



#5 AAA-TFT

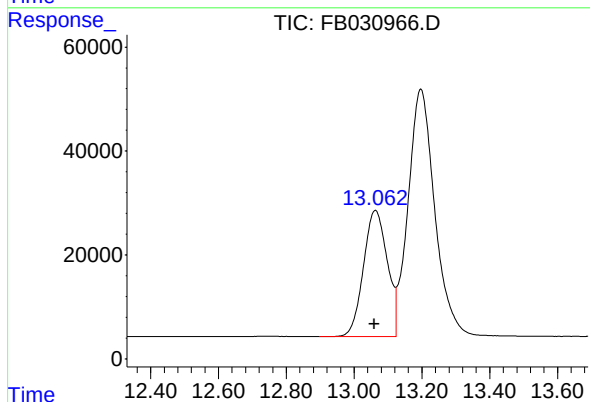
R.T.: 8.797 min
Delta R.T.: 0.001 min
Response: 1352495
Conc: 43.48 ng/ml

Instrument :
FID_B
ClientSampleId :
50 GRO STD



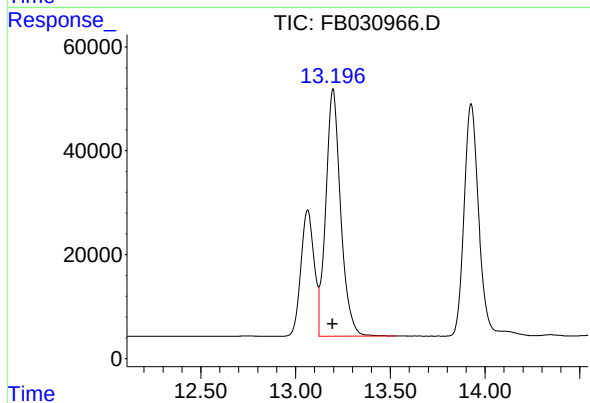
#6 Toluene

R.T.: 10.627 min
Delta R.T.: 0.002 min
Response: 4058953
Conc: 74.86 ng/ml



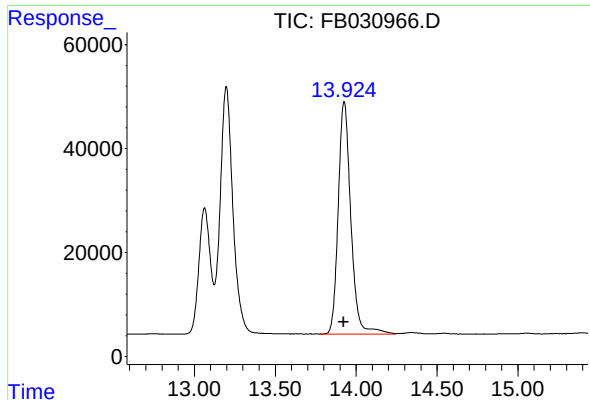
#7 Ethylbenzene

R.T.: 13.063 min
Delta R.T.: 0.003 min
Response: 1184934
Conc: 24.81 ng/ml



#8 m-Xylene

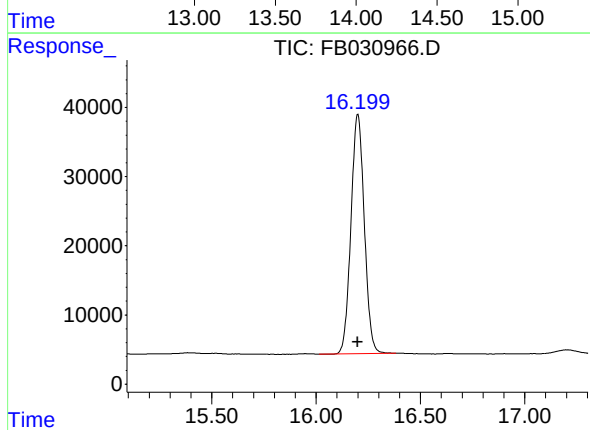
R.T.: 13.197 min
Delta R.T.: 0.003 min
Response: 2605506
Conc: 49.49 ng/ml



#9 O-Xylene

R.T.: 13.926 min
Delta R.T.: 0.003 min
Response: 2427068
Conc: 49.06 ng/ml

Instrument :
FID_B
ClientSampleId :
50 GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.200 min
Delta R.T.: 0.002 min
Response: 1540361
Conc: 44.10 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030966.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 11:05
Sample : 50 GRO STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.729	4.601	4.900	BBA	37670	2850875	70.24%	12.787%
2	7.431	7.176	7.648	VV	38327	3634732	89.55%	16.303%
3	7.758	7.648	7.827	VV	20191	1192795	29.39%	5.350%
4	7.899	7.827	8.378	VV	24000	1447228	35.66%	6.491%
5	8.797	8.640	9.138	BV	22572	1352495	33.32%	6.066%
6	10.627	10.506	11.011	VV	72983	4058953	100.00%	18.206%
7	13.063	12.896	13.124	PV	24292	1184934	29.19%	5.315%
8	13.197	13.124	13.530	VV	47631	2605506	64.19%	11.687%
9	13.926	13.770	14.246	PV	44741	2427068	59.80%	10.886%
10	16.200	16.014	16.383	PV	34638	1540361	37.95%	6.909%

Sum of corrected areas: 22294948

FB100424.M Sat Oct 05 06:09:14 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
 Data File : FB030967.D
 Signal(s) : FID2B.CH
 Acq On : 4 Oct 2024 11:31
 Operator : YP/AJ
 Sample : 100 GRO STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 100 GRO STD

Integration File: Calibration.e
 Quant Time: Oct 04 11:27:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
 Quant Title :
 QLast Update : Fri Oct 04 11:02:13 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.797	2952871	98.136 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.726	5624158	157.397 ng/ml
2) t 2,2,4-Trimethylpentane	7.432	7177805	150.783 ng/ml
3) t n-Heptane	7.756	2407690	54.298 ng/ml
4) t Benzene	7.898	2865961	52.707 ng/ml
6) t Toluene	10.627	7997551	147.569 ng/ml
7) t Ethylbenzene	13.064	2316727	48.603 ng/ml
8) t m-Xylene	13.199	5080419	96.753 ng/ml
9) t O-Xylene	13.928	4627108	93.973 ng/ml
10) t 1,2,4-Trimethylbenzene	16.202	2825204	83.346 ng/ml

(f)=RT Delta > 1/2 Window

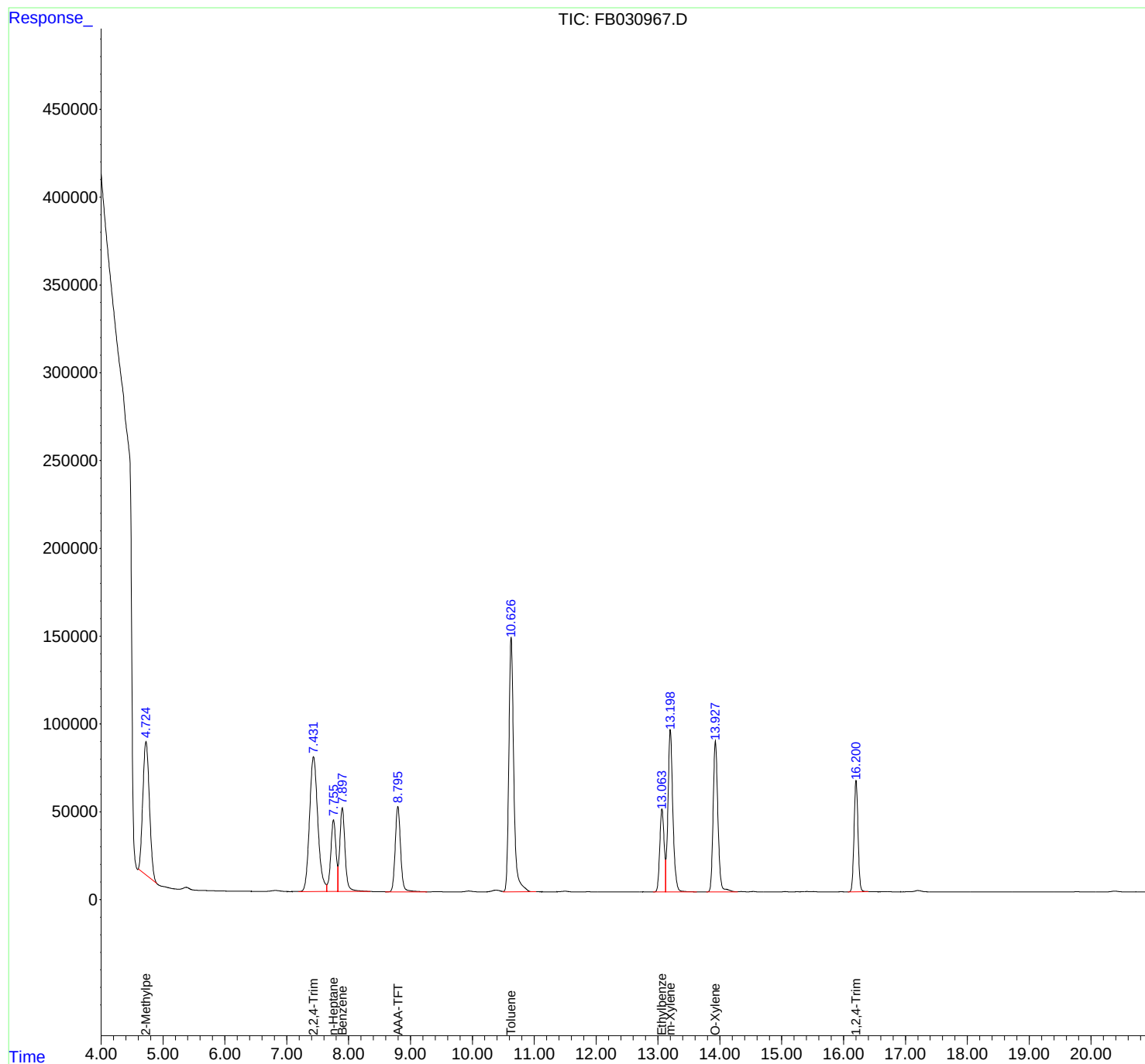
(m)=manual int.

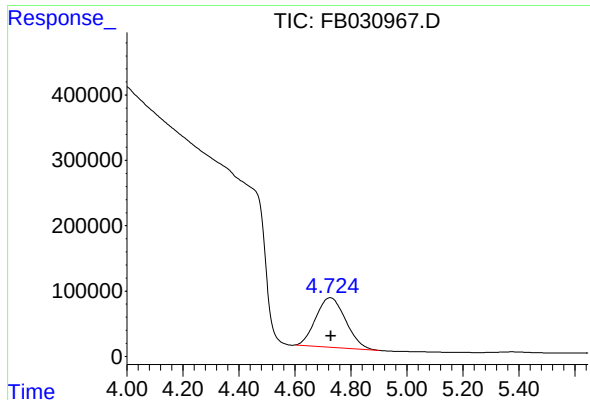
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030967.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 11:31
Operator : YP/AJ
Sample : 100 GRO STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
100 GRO STD

Integration File: Calibration.e
Quant Time: Oct 04 11:27:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Quant Title :
QLast Update : Fri Oct 04 11:02:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

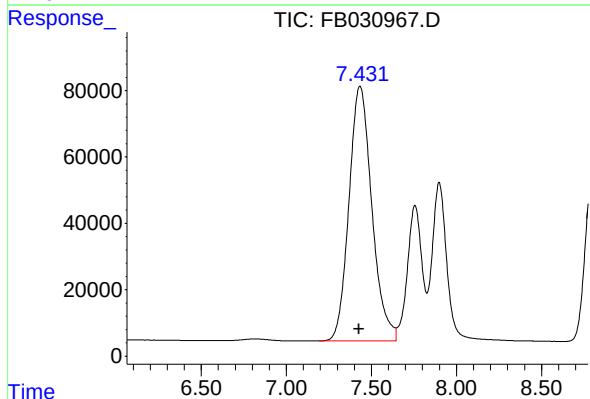




#1 2-Methylpentane

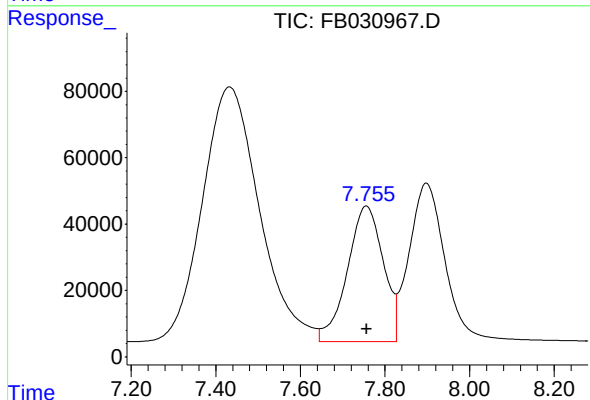
R.T.: 4.726 min
Delta R.T.: -0.002 min
Response: 5624158
Conc: 157.40 ng/ml

Instrument :
FID_B
ClientSampleId :
100 GRO STD



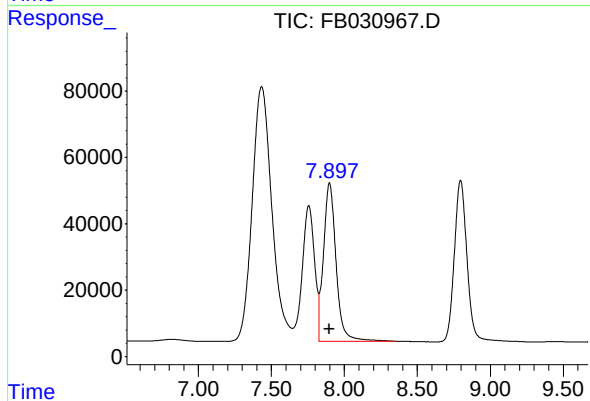
#2 2,2,4-Trimethylpentane

R.T.: 7.432 min
Delta R.T.: 0.005 min
Response: 7177805
Conc: 150.78 ng/ml



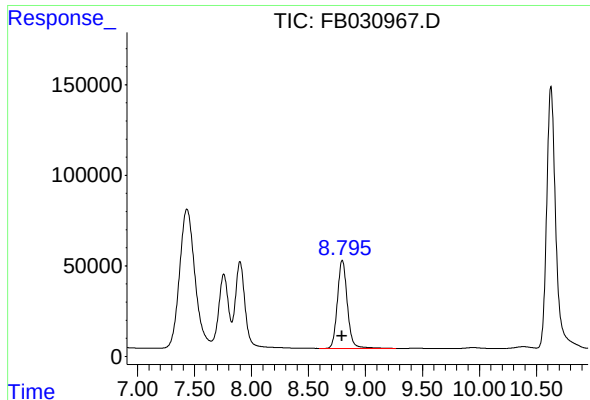
#3 n-Heptane

R.T.: 7.756 min
Delta R.T.: 0.000 min
Response: 2407690
Conc: 54.30 ng/ml



#4 Benzene

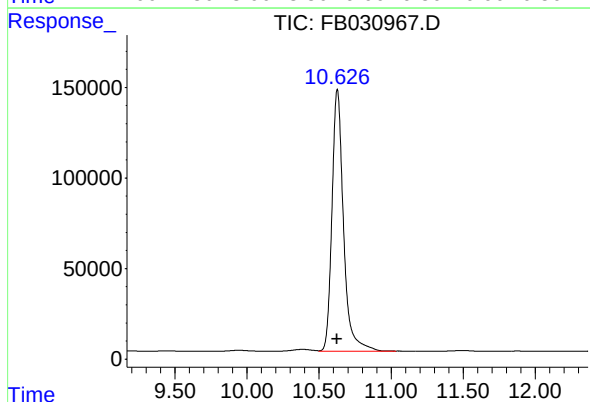
R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 2865961
Conc: 52.71 ng/ml



#5 AAA-TFT

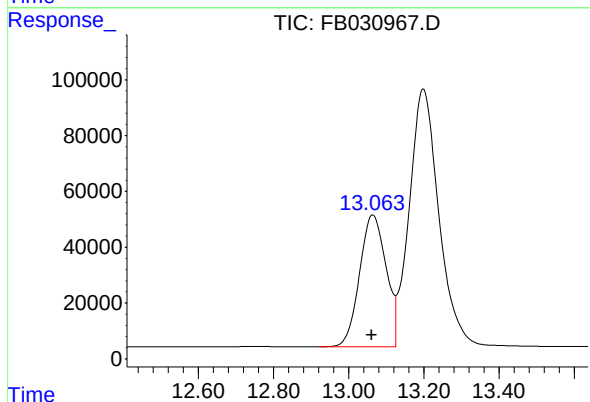
R.T.: 8.797 min
Delta R.T.: 0.001 min
Response: 2952871
Conc: 98.14 ng/ml

Instrument :
FID_B
ClientSampleId :
100 GRO STD



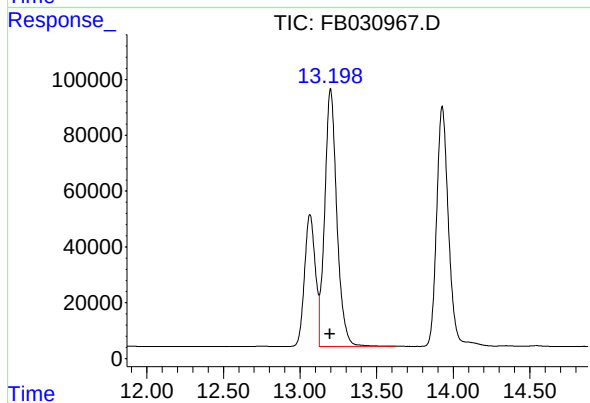
#6 Toluene

R.T.: 10.627 min
Delta R.T.: 0.003 min
Response: 7997551
Conc: 147.57 ng/ml



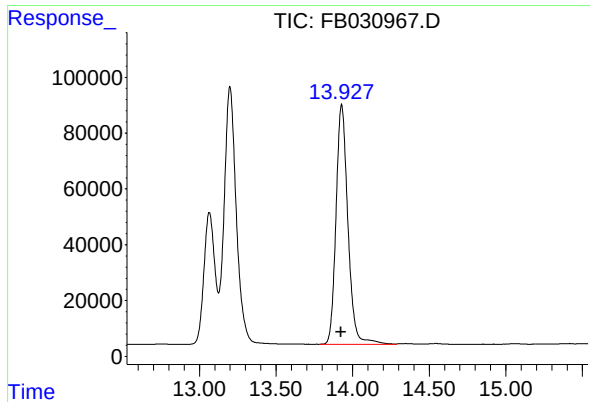
#7 Ethylbenzene

R.T.: 13.064 min
Delta R.T.: 0.004 min
Response: 2316727
Conc: 48.60 ng/ml



#8 m-Xylene

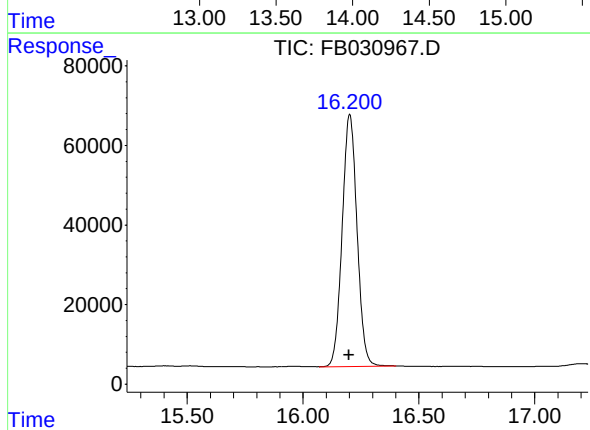
R.T.: 13.199 min
Delta R.T.: 0.004 min
Response: 5080419
Conc: 96.75 ng/ml



#9 O-Xylene

R.T.: 13.928 min
Delta R.T.: 0.005 min
Response: 4627108
Conc: 93.97 ng/ml

Instrument :
FID_B
ClientSampleId :
100 GRO STD



#10 1,2,4-Trimethylbenzene

R.T.: 16.202 min
Delta R.T.: 0.003 min
Response: 2825204
Conc: 83.35 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030967.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 11:31
Sample : 100 GRO STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.726	4.601	4.900	BBA	75983	5624158	70.32%	12.818%
2	7.432	7.192	7.644	VV	76766	7177805	89.75%	16.359%
3	7.756	7.644	7.827	VV	40869	2407690	30.11%	5.488%
4	7.898	7.827	8.353	VV	47752	2865961	35.84%	6.532%
5	8.797	8.592	9.267	PV	48708	2952871	36.92%	6.730%
6	10.627	10.499	11.033	VV	144635	7997551	100.00%	18.228%
7	13.064	12.921	13.125	VV	47223	2316727	28.97%	5.280%
8	13.199	13.125	13.628	VV	92357	5080419	63.52%	11.579%
9	13.928	13.782	14.284	PV	86037	4627108	57.86%	10.546%
10	16.202	16.069	16.401	BBA	63402	2825204	35.33%	6.439%

Sum of corrected areas: 43875493

FB100424.M Sat Oct 05 06:10:01 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
 Data File : FB030968.D
 Signal(s) : FID2B.CH
 Acq On : 4 Oct 2024 12:09
 Operator : YP/AJ
 Sample : FB100424GROICV
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 FB100424GROICV

Integration File: Calibration.e
 Quant Time: Oct 04 12:05:15 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
 Quant Title :
 QLast Update : Fri Oct 04 11:53:51 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 5 g/ml
 Signal Phase : RTX-502.2
 Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.795	555957	18.546 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.728	925012	25.634 ng/ml
2) t 2,2,4-Trimethylpentane	7.427	1267661	26.602 ng/ml
3) t n-Heptane	7.756	374766	8.309 ng/ml
4) t Benzene	7.898	482014	8.770 ng/ml
6) t Toluene	10.624	1436974	26.601 ng/ml
7) t Ethylbenzene	13.061	438211	9.245 ng/ml
8) t m-Xylene	13.195	974235	18.675 ng/ml
9) t O-Xylene	13.923	939607	19.316 ng/ml
10) t 1,2,4-Trimethylbenzene	16.199	664963	20.293 ng/ml

(f)=RT Delta > 1/2 Window

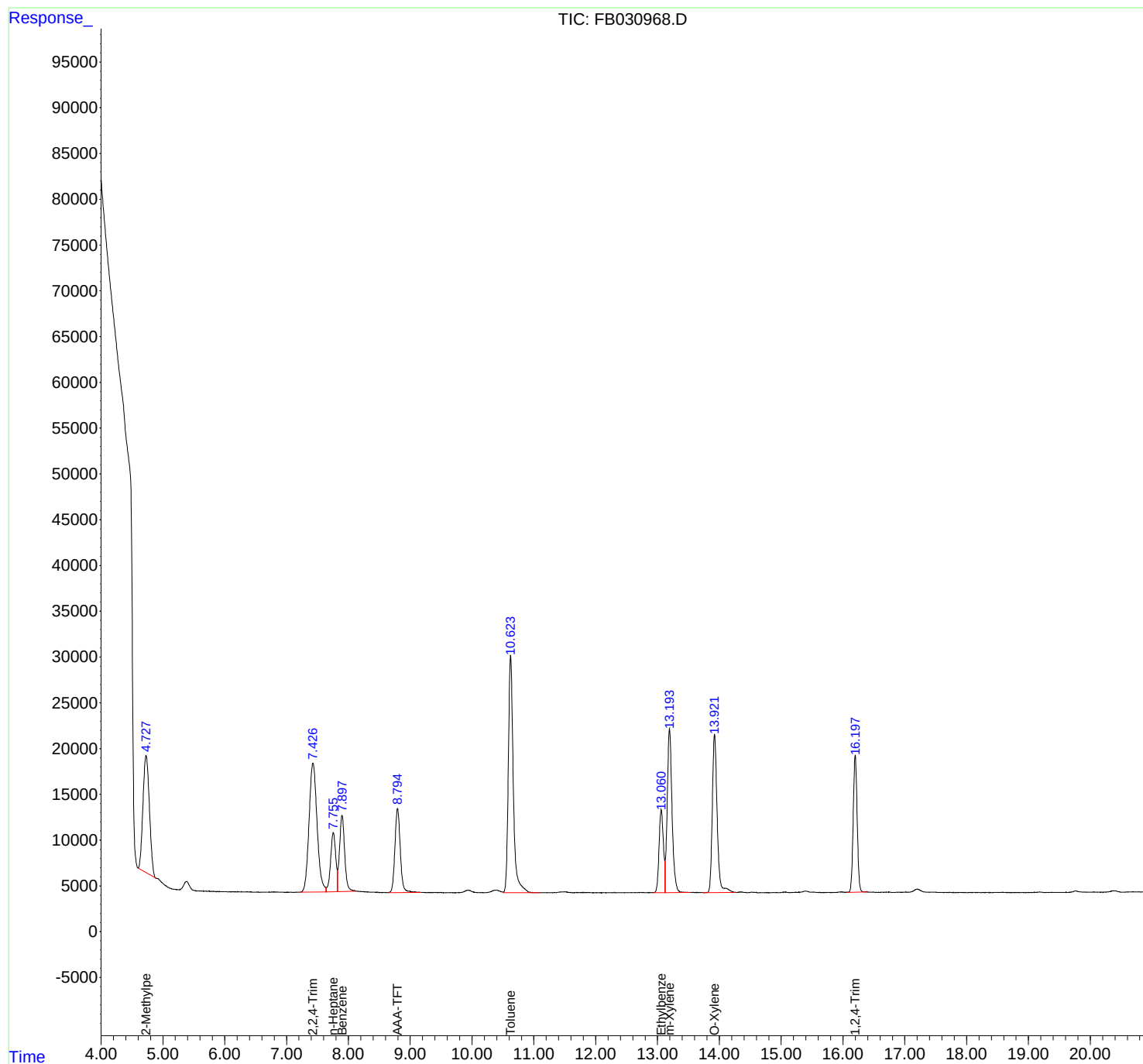
(m)=manual int.

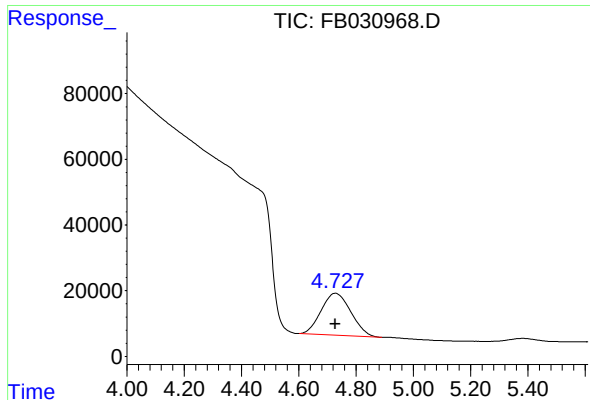
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030968.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 12:09
Operator : YP/AJ
Sample : FB100424GROICV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
FB100424GROICV

Integration File: Calibration.e
Quant Time: Oct 04 12:05:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Quant Title :
QLast Update : Fri Oct 04 11:53:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

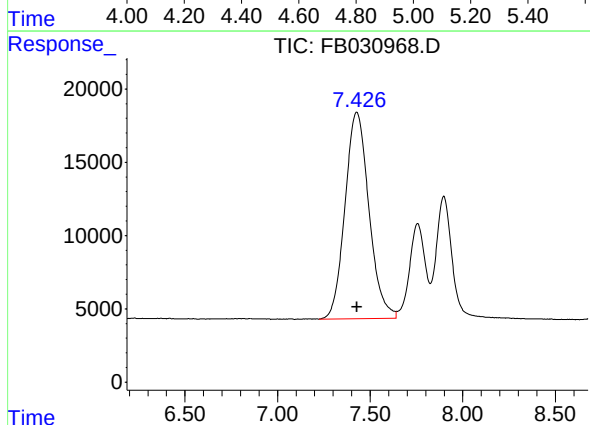




#1 2-Methylpentane

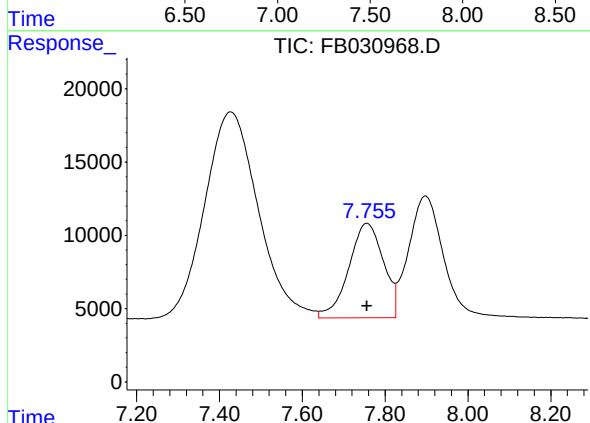
R.T.: 4.728 min
Delta R.T.: 0.000 min
Response: 925012
Conc: 25.63 ng/ml

Instrument :
FID_B
ClientSampleId :
FB100424GROICV



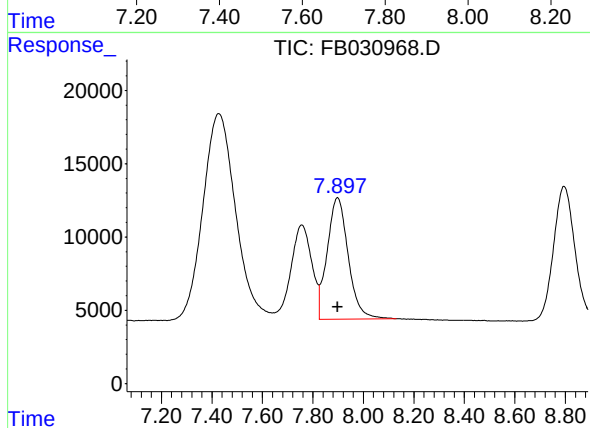
#2 2,2,4-Trimethylpentane

R.T.: 7.427 min
Delta R.T.: 0.000 min
Response: 1267661
Conc: 26.60 ng/ml



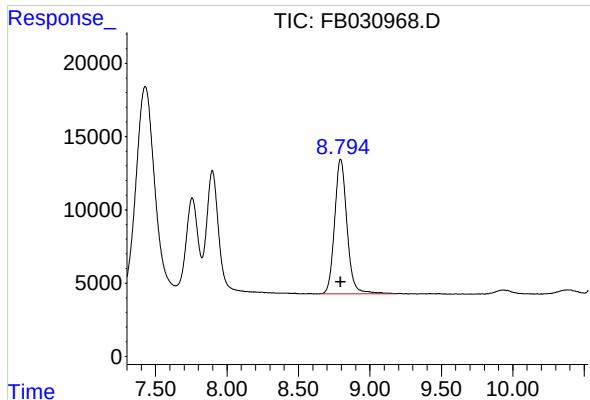
#3 n-Heptane

R.T.: 7.756 min
Delta R.T.: 0.000 min
Response: 374766
Conc: 8.31 ng/ml



#4 Benzene

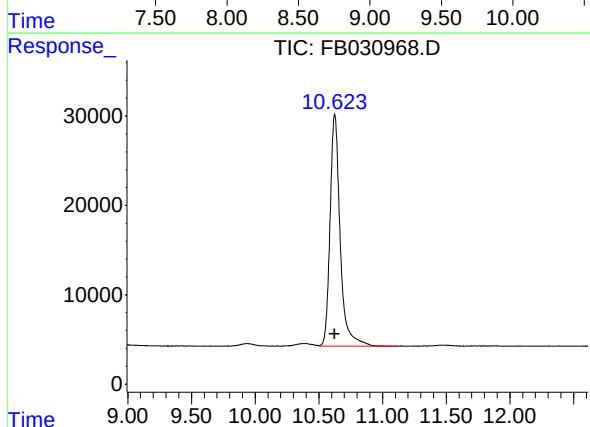
R.T.: 7.898 min
Delta R.T.: 0.000 min
Response: 482014
Conc: 8.77 ng/ml



#5 AAA-TFT

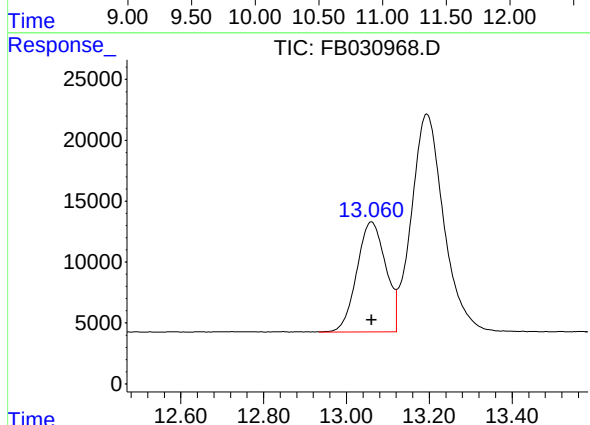
R.T.: 8.795 min
Delta R.T.: 0.000 min
Response: 555957
Conc: 18.55 ng/ml

Instrument :
FID_B
ClientSampleId :
FB100424GROICV



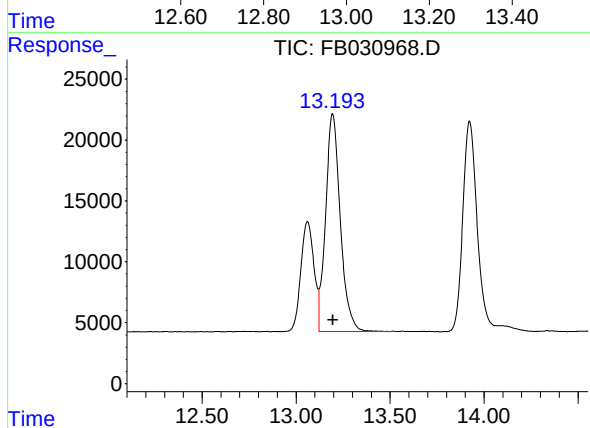
#6 Toluene

R.T.: 10.624 min
Delta R.T.: 0.000 min
Response: 1436974
Conc: 26.60 ng/ml



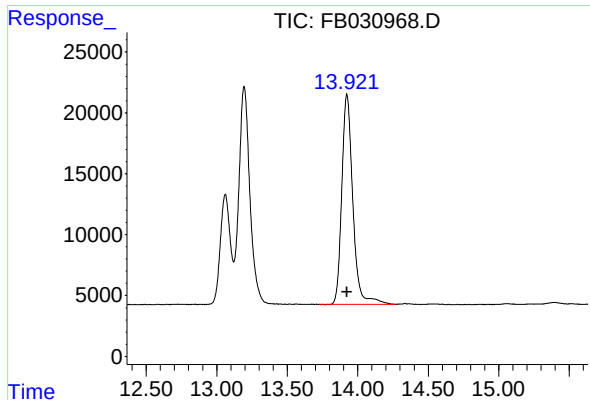
#7 Ethylbenzene

R.T.: 13.061 min
Delta R.T.: 0.000 min
Response: 438211
Conc: 9.24 ng/ml



#8 m-Xylene

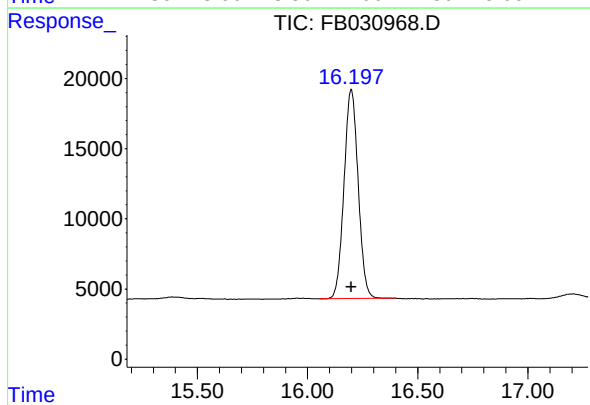
R.T.: 13.195 min
Delta R.T.: 0.000 min
Response: 974235
Conc: 18.67 ng/ml



#9 O-Xylene

R.T.: 13.923 min
Delta R.T.: 0.000 min
Response: 939607
Conc: 19.32 ng/ml

Instrument :
FID_B
ClientSampleId :
FB100424GROICV



#10 1,2,4-Trimethylbenzene

R.T.: 16.199 min
Delta R.T.: 0.000 min
Response: 664963
Conc: 20.29 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB100424\
Data File : FB030968.D
Signal(s) : FID2B.CH
Acq On : 4 Oct 2024 12:09
Sample : FB100424GR0ICV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB100424.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.728	4.601	4.890	BV	12785	925012	64.37%	11.477%
2	7.427	7.224	7.639	PV	14096	1267661	88.22%	15.729%
3	7.756	7.639	7.825	VV	6462	374766	26.08%	4.650%
4	7.898	7.825	8.130	VV	8305	482014	33.54%	5.981%
5	8.795	8.644	9.183	PV	9196	555957	38.69%	6.898%
6	10.624	10.502	11.106	VV	25953	1436974	100.00%	17.830%
7	13.061	12.935	13.121	BV	9046	438211	30.50%	5.437%
8	13.195	13.121	13.530	VV	17896	974235	67.80%	12.088%
9	13.923	13.725	14.271	BV	17283	939607	65.39%	11.659%
10	16.199	16.052	16.401	BBA	14926	664963	46.28%	8.251%

Sum of corrected areas: 8059398

FB100424.M Sat Oct 05 06:10:35 2024

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Soil PT
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
DataFile: FB031011.D Analyst Name: YP/AJ Analyst Date: 10-24-2024

Conc. (PPB)	Area Count	RF	Average RF	%D
180	7107480	39486	45995	14.152

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Soil PT
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
DataFile: FB031022.D Analyst Name: YP/AJ Analyst Date: 10-24-2024

Conc. (PPB)	Area Count	RF	Average RF	%D
180	7561703	42009	45995	8.666

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: FID_B

GC Column: RTX-502.2 ID: 0.53 (mm)

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION 8.7964					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	24 Oct 2024 8:53	FB031011.D	8.789	
VBF1024S2	VBF1024S2	24 Oct 2024 10:00	FB031013.D	8.796	
BSF1024S1	BSF1024S1	24 Oct 2024 10:27	FB031014.D	8.795	
PT-GAS-SOIL	P4495-15	24 Oct 2024 12:53	FB031019.D	8.820	
BSF1024S2	BSF1024S2	24 Oct 2024 13:47	FB031021.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	24 Oct 2024 14:13	FB031022.D	8.795	

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	PT-DIES-SOIL	SOIL			10/21/24			10/23/24
			Diesel Range Organics	8015D		10/24/24	10/24/24	
			Diesel Range Organics	8015D		10/24/24	10/25/24	
P4495-15	PT-GAS-SOIL	SOIL			10/21/24			10/23/24
			Gasoline Range Organics	8015D			10/24/24	
			Gasoline Range Organics	8015D			10/30/24	
P4495-16	PT-NJEPH-SOIL	Solid			10/21/24			10/23/24
			EPH	NJEPH		10/25/24	10/28/24	
			EPH	NJEPH		10/25/24	10/29/24	
			EPH	NJEPH		10/25/24	10/28/24	
P4495-16DL 2	PT-NJEPH-SOILDL2	Solid			10/21/24			10/23/24
			EPH	NJEPH		10/25/24	10/28/24	
P4495-17	PT-HERB-SOIL	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-17RE	PT-HERB-SOILRE	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-18	PT-PCB-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-18DL	PT-PCB-SOIL DL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-19	PT-PCBO-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/28/24	
P4495-19DL	PT-PCBO-SOILDL	SOIL			10/21/24			10/23/24

LAB CHRONICLE

			PCB	8082A		10/25/24	10/28/24	
P4495-20	PT-PEST-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL 2	PT-PEST-SOILDL2	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	PT-CHLR-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	PT-TXP-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	PT-TXP-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	

Hit Summary Sheet
SW-846

SDG No.: P4495

Order ID: P4495

Client: Chemtech Consulting Group

Project ID: NJ Soil PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-HERB-SOIL								
P4495-17	PT-HERB-SOIL	SOIL	DICAMBA	158		8.60	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	DICHLORPROP	203		9.50	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4-D	223		12.0	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4,5-TP (Silvex)	145		9.30	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4,5-T	154		10.1	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	2,4-DB	226	P	18.2	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	DINOSEB	89.5	P	12.3	66.7	ug/Kg
P4495-17	PT-HERB-SOIL	SOIL	Pentachlorophenol	78.7		10.5	66.7	ug/Kg
Total Concentration:				1,277.200				

Client ID : PT-HERB-SOILRE								
P4495-17RE	PT-HERB-SOILRE	SOIL	DICAMBA	159		8.60	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	DICHLORPROP	203		9.50	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4-D	224		12.0	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4,5-TP (Silvex)	143		9.30	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4,5-T	160		10.1	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	2,4-DB	226	P	18.2	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	DINOSEB	83.6	P	12.3	66.7	ug/Kg
P4495-17RE	PT-HERB-SOILRE	SOIL	Pentachlorophenol	74.3		10.5	66.7	ug/Kg
Total Concentration:				1,272.900				



SAMPLE DATA



QC SUMMARY

Surrogate Summary

SDG No.: **P4495**

Client: **Chemtech Consulting Group**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028487.D	PIBLK-PS028487.D	2,4-DCAA	1	500	548	110		39	175
		2,4-DCAA	2	500	547	109		39	175
I.BLK-PS028533.D	PIBLK-PS028533.D	2,4-DCAA	1	500	588	118		39	175
		2,4-DCAA	2	500	584	117		39	175
PB164971BL	PB164971BL	2,4-DCAA	1	500	497	99		10	141
		2,4-DCAA	2	500	484	97		10	141
PB164971BS	PB164971BS	2,4-DCAA	1	500	542	108		10	141
		2,4-DCAA	2	500	533	107		10	141
P4821-05MS	BP-F-2MS	2,4-DCAA	1	500	463	93		10	141
		2,4-DCAA	2	500	417	83		10	141
P4821-05MSD	BP-F-2MSD	2,4-DCAA	1	500	468	94		10	141
		2,4-DCAA	2	500	421	84		10	141
I.BLK-PS028544.D	PIBLK-PS028544.D	2,4-DCAA	1	500	607	121		39	175
		2,4-DCAA	2	500	600	120		39	175
I.BLK-PS028613.D	PIBLK-PS028613.D	2,4-DCAA	1	500	555	111		39	175
		2,4-DCAA	2	500	487	97		39	175
P4495-17	PT-HERB-SOIL	2,4-DCAA	1	500	922	184	*	10	141
		2,4-DCAA	2	500	299	60		10	141
P4495-17RE	PT-HERB-SOILRE	2,4-DCAA	1	500	957	191	*	10	141
		2,4-DCAA	2	500	294	59		10	141
I.BLK-PS028617.D	PIBLK-PS028617.D	2,4-DCAA	1	500	557	111		39	175
		2,4-DCAA	2	500	506	101		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8151A

DataFile : PS028539.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: P4821-05MS	BP-F-2MS											
	DICAMBA	187.7	0	142	ug/Kg	76				10	112	
	MCPD	18.77	0	12.0	ug/Kg	64	*			70	130	
	Dalapon	187.7	0	107	ug/Kg	57	*			70	130	
	MCPA	18.77	0	12.9	ug/Kg	69	*			70	130	
	DICHLORPROP	187.7	0	136	ug/Kg	72				10	113	
	2,4-D	187.7	0	157	ug/Kg	84				10	144	
	2,4,5-TP(Silvex)	187.7	0	130	ug/Kg	69				10	114	
	2,4,5-T	187.7	0	131	ug/Kg	70				10	115	
	2,4-DB	187.7	0	118	ug/Kg	63				10	140	
	Dinoseb	187.7	0	16.0	ug/Kg	9	*			10	118	
	Pentachlorophenol	187.7	0	116	ug/Kg	62	*			70	130	
	4-Nitrophenol	187.7	0	131	ug/Kg	70				70	130	
	PICLORAM	187.7	0	113	ug/Kg	60	*			70	130	
	DCPA	187.7	0	147	ug/Kg	78				70	130	
	3,5-DICHLOROBENZO	187.7	0	141	ug/Kg	75				70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8151A

DataFile : PS028540.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	BP-F-2MSD											
P4821-05MSD	DICAMBA	187.6	0	143	ug/Kg	76		0		10	112	20
	MCPD	187.6	0	12.2	ug/Kg	65	*	2		70	130	20
	Dalapon	187.6	0	101	ug/Kg	54	*	5		70	130	20
	MCPA	187.6	0	13.1	ug/Kg	70		1		70	130	20
	DICHLORPROP	187.6	0	137	ug/Kg	73		1		10	113	20
	2,4-D	187.6	0	159	ug/Kg	85		1		10	144	20
	2,4,5-TP(Silvex)	187.6	0	131	ug/Kg	70		1		10	114	20
	2,4,5-T	187.6	0	134	ug/Kg	71		1		10	115	20
	2,4-DB	187.6	0	120	ug/Kg	64		2		10	140	20
	Dinoseb	187.6	0	17.5	ug/Kg	9	*	0		10	118	20
	Pentachlorophenol	187.6	0	118	ug/Kg	63	*	2		70	130	20
	4-Nitrophenol	187.6	0	133	ug/Kg	71		1		70	130	20
	PICLORAM	187.6	0	116	ug/Kg	62	*	3		70	130	20
	DCPA	187.6	0	148	ug/Kg	79		1		70	130	20
	3,5-DICHLOROBENZO	187.6	0	143	ug/Kg	76		1		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4495

Client: Chemtech Consulting Group

Analytical Method: 8151A Datafile : PS028536.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB164971BS	DICAMBA	166.6	169	ug/Kg	101				72	129		
	MCPD	16.66	16.2	ug/Kg	97				70	130		
	Dalapon	166.6	151	ug/Kg	91				70	130		
	MCPA	16.66	15.9	ug/Kg	95				70	130		
	DICHLORPROP	166.6	170	ug/Kg	102				77	135		
	2,4-D	166.6	169	ug/Kg	101				65	144		
	2,4,5-TP(Silvex)	166.6	173	ug/Kg	104				74	146		
	2,4,5-T	166.6	172	ug/Kg	103				77	134		
	2,4-DB	166.6	166	ug/Kg	100				72	122		
	Dinoseb	166.6	163	ug/Kg	98				74	132		
	Pentachlorophenol	166.6	182	ug/Kg	109				70	130		
	4-Nitrophenol	166.6	160	ug/Kg	96				70	130		
	PICLORAM	166.6	141	ug/Kg	85				70	130		
	DCPA	166.6	174	ug/Kg	104				70	130		
	3,5-DICHLOROBENZOIC	166.6	169	ug/Kg	101				70	130		

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164971BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: PB164971BL

Lab File ID: PS028535.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/14/2024

Date Analyzed (1): 11/14/2024

Date Analyzed (2): 11/14/2024

Time Analyzed (1): 16:35

Time Analyzed (2): 16:35

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm)

GC Column (2): RTX-CLP2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB164971BS	PB164971BS	PS028536.D	11/14/2024	11/14/2024
BP-F-2MS	P4821-05MS	PS028539.D	11/14/2024	11/14/2024
BP-F-2MSD	P4821-05MSD	PS028540.D	11/14/2024	11/14/2024
PT-HERB-SOIL	P4495-17	PS028615.D	11/25/2024	11/25/2024

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164971BL		SDG No.:	P4495	
Lab Sample ID:	PB164971BL		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028535.D	1	11/14/24 09:05	11/14/24 16:35	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	1.00	U	1.00	6.70	ug/Kg
1918-00-9	DICAMBA	8.70	U	8.70	66.9	ug/Kg
75-99-0	DALAPON	24.8	U	24.8	66.9	ug/Kg
94-74-6	MCPA	1.70	U	1.70	6.70	ug/Kg
120-36-5	DICHLORPROP	9.50	U	9.50	66.9	ug/Kg
94-75-7	2,4-D	12.1	U	12.1	66.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.40	U	9.40	66.9	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	66.9	ug/Kg
94-82-6	2,4-DB	18.3	U	18.3	66.9	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	66.9	ug/Kg
87-86-5	Pentachlorophenol	10.5	U	10.5	66.9	ug/Kg
100-02-7	4-Nitrophenol	17.6	U	17.6	66.9	ug/Kg
1918-02-1	PICLORAM	9.50	U	9.50	66.9	ug/Kg
1861-32-1	DCPA	11.7	U	11.7	66.9	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	11.1	U	11.1	66.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	497		10 - 141	99%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164971BL		SDG No.:	P4495	
Lab Sample ID:	PB164971BL		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028535.D	1	11/14/24 09:05	11/14/24 16:35	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/13/24
Project:	NJ Soil PT	Date Received:	11/13/24
Client Sample ID:	PIBLK-PS028487.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028487.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028487.D	1		11/13/24	PS111324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	548		39 - 175	110%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/13/24	
Project:	NJ Soil PT		Date Received:	11/13/24	
Client Sample ID:	PIBLK-PS028487.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028487.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028487.D	1		11/13/24	PS111324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/14/24	
Project:	NJ Soil PT		Date Received:	11/14/24	
Client Sample ID:	PIBLK-PS028533.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028533.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028533.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	588		39 - 175	118%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/14/24	
Project:	NJ Soil PT		Date Received:	11/14/24	
Client Sample ID:	PIBLK-PS028533.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028533.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028533.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/14/24	
Project:	NJ Soil PT		Date Received:	11/14/24	
Client Sample ID:	PIBLK-PS028544.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028544.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028544.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	607		39 - 175	121%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/14/24	
Project:	NJ Soil PT		Date Received:	11/14/24	
Client Sample ID:	PIBLK-PS028544.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028544.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028544.D	1		11/14/24	PS111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	11/25/24
Project:	NJ Soil PT	Date Received:	11/25/24
Client Sample ID:	PIBLK-PS028613.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-PS028613.D	Matrix:	WATER
Analytical Method:	SW8151A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	10000 uL
Extraction Type:		Test:	Herbicide Group1
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028613.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	555		39 - 175	111%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/25/24	
Project:	NJ Soil PT		Date Received:	11/25/24	
Client Sample ID:	PIBLK-PS028613.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028613.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028613.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/25/24	
Project:	NJ Soil PT		Date Received:	11/25/24	
Client Sample ID:	PIBLK-PS028617.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028617.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028617.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.047	U	0.047	0.20	ug/L
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
75-99-0	DALAPON	1.10	U	1.10	2.00	ug/L
94-74-6	MCPA	0.052	U	0.052	0.20	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
87-86-5	Pentachlorophenol	0.50	U	0.50	2.00	ug/L
100-02-7	4-Nitrophenol	0.53	U	0.53	2.00	ug/L
1918-02-1	PICLORAM	0.50	U	0.50	2.00	ug/L
1861-32-1	DCPA	0.54	U	0.54	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.48	U	0.48	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	557		39 - 175	111%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/25/24	
Project:	NJ Soil PT		Date Received:	11/25/24	
Client Sample ID:	PIBLK-PS028617.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-PS028617.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028617.D	1		11/25/24	PS112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164971BS		SDG No.:	P4495	
Lab Sample ID:	PB164971BS		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028536.D	1	11/14/24 09:05	11/14/24 17:00	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	16.2		1.00	6.70	ug/Kg
1918-00-9	DICAMBA	169		8.70	67.0	ug/Kg
75-99-0	DALAPON	151		24.8	67.0	ug/Kg
94-74-6	MCPA	15.9		1.70	6.70	ug/Kg
120-36-5	DICHLORPROP	170		9.50	67.0	ug/Kg
94-75-7	2,4-D	169		12.1	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	173		9.40	67.0	ug/Kg
93-76-5	2,4,5-T	172		10.1	67.0	ug/Kg
94-82-6	2,4-DB	166		18.3	67.0	ug/Kg
88-85-7	DINOSEB	163		12.4	67.0	ug/Kg
87-86-5	Pentachlorophenol	182		10.5	67.0	ug/Kg
100-02-7	4-Nitrophenol	160		17.6	67.0	ug/Kg
1918-02-1	PICLORAM	141		9.50	67.0	ug/Kg
1861-32-1	DCPA	174		11.7	67.0	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	169		11.1	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	542		10 - 141	108%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164971BS		SDG No.:	P4495	
Lab Sample ID:	PB164971BS		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028536.D	1	11/14/24 09:05	11/14/24 17:00	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/12/24	
Project:	NJ Soil PT		Date Received:	11/12/24	
Client Sample ID:	BP-F-2MS		SDG No.:	P4495	
Lab Sample ID:	P4821-05MS		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	88.6	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028539.D	1	11/14/24 09:05	11/14/24 18:14	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	12.0		1.10	7.50	ug/Kg
1918-00-9	DICAMBA	142		9.80	75.5	ug/Kg
75-99-0	DALAPON	107	P	27.9	75.5	ug/Kg
94-74-6	MCPA	12.9		1.90	7.50	ug/Kg
120-36-5	DICHLORPROP	136		10.7	75.5	ug/Kg
94-75-7	2,4-D	157		13.6	75.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	130		10.6	75.5	ug/Kg
93-76-5	2,4,5-T	131		11.4	75.5	ug/Kg
94-82-6	2,4-DB	118		20.6	75.5	ug/Kg
88-85-7	DINOSEB	16.0	J	14.0	75.5	ug/Kg
87-86-5	Pentachlorophenol	116		11.8	75.5	ug/Kg
100-02-7	4-Nitrophenol	131		19.8	75.5	ug/Kg
1918-02-1	PICLORAM	113		10.7	75.5	ug/Kg
1861-32-1	DCPA	147		13.2	75.5	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	141		12.5	75.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	463		10 - 141	93%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/12/24	
Project:	NJ Soil PT		Date Received:	11/12/24	
Client Sample ID:	BP-F-2MS		SDG No.:	P4495	
Lab Sample ID:	P4821-05MS		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	88.6	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028539.D	1	11/14/24 09:05	11/14/24 18:14	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/12/24	
Project:	NJ Soil PT		Date Received:	11/12/24	
Client Sample ID:	BP-F-2MSD		SDG No.:	P4495	
Lab Sample ID:	P4821-05MSD		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	88.6	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028540.D	1	11/14/24 09:05	11/14/24 18:38	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
93-65-2	MCPP	12.2		1.10	7.50	ug/Kg
1918-00-9	DICAMBA	143		9.80	75.4	ug/Kg
75-99-0	DALAPON	101	P	27.9	75.4	ug/Kg
94-74-6	MCPA	13.1		1.90	7.50	ug/Kg
120-36-5	DICHLORPROP	137		10.7	75.4	ug/Kg
94-75-7	2,4-D	159		13.6	75.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	131		10.6	75.4	ug/Kg
93-76-5	2,4,5-T	134		11.4	75.4	ug/Kg
94-82-6	2,4-DB	120		20.6	75.4	ug/Kg
88-85-7	DINOSEB	17.5	J	14.0	75.4	ug/Kg
87-86-5	Pentachlorophenol	118		11.8	75.4	ug/Kg
100-02-7	4-Nitrophenol	133		19.8	75.4	ug/Kg
1918-02-1	PICLORAM	116		10.7	75.4	ug/Kg
1861-32-1	DCPA	148		13.2	75.4	ug/Kg
51-36-5	3,5-DICHLOROBENZOIC AC	143		12.5	75.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	468		10 - 141	94%	SPK: 500

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	11/12/24	
Project:	NJ Soil PT		Date Received:	11/12/24	
Client Sample ID:	BP-F-2MSD		SDG No.:	P4495	
Lab Sample ID:	P4821-05MSD		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	88.6	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028540.D	1	11/14/24 09:05	11/14/24 18:38	PB164971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract:	<u>CHEM02</u>						
Lab Code:	<u>CHEM</u>	Case No.:	<u>P4495</u>	SAS No.:	<u>P4495</u>	SDG NO.:	<u>P4495</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):		<u>11/13/2024</u>	<u>11/13/2024</u>		
		Calibration Times:		<u>11:44</u>	<u>13:23</u>		

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:	RT 200 =	<u>PS028488.D</u>	RT 500 =	<u>PS028489.D</u>
	RT 750 =	PS028490.D	RT 1000 =	PS028491.D
			RT 1500 =	PS028492.D

[illegible]

A
B
C
D
E
F
G
H

Calibration Times: 11:44 13:23

LAB FILE ID:	RT 200 =	<u>PS028488.D</u>	RT 500 =	<u>PS028489.D</u>
	RT 750 =	PS028490.D	RT 1000 =	PS028491.D
			RT 1500 =	PS028492.D

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024
Calibration Times: 11:44 13:23

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028488.D</u>		CF 500 = <u>PS028489.D</u>			
CF 750 = <u>PS028490.D</u>		CF 1000 = <u>PS028491.D</u>		CF 1500 = <u>PS028492.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	18386800000	18633200000	18107000000	17245300000	16500400000	17774500000	5
2,4,5-TP(Silvex)	17984700000	18202900000	17704400000	16835500000	16126100000	17370700000	5
2,4-D	3426680000	3322800000	3216710000	3055910000	2962550000	3196930000	6
2,4-DB	2775070000	2796180000	2757470000	2665480000	2633900000	2725620000	3
2,4-DCAA	2772700000	2649760000	2564110000	2437330000	2355500000	2555880000	6
3,5-DICHLOROBENZOIC	3960280000	3872050000	3753000000	3591720000	3479420000	3731300000	5
4-Nitrophenol	1757650000	1736360000	1707240000	1650670000	1640320000	1698450000	3
Dalapon	3120120000	3395600000	3446340000	3403500000	3431780000	3359470000	4
DCPA	26972900000	27730700000	26929900000	25526800000	24406500000	26313400000	5
DICAMBA	10941000000	11294600000	11176100000	10780800000	10517300000	10942000000	3
DICHLORPROP	3167160000	3061980000	2956180000	2829410000	2742080000	2951360000	6
Dinoseb	14533900000	14783600000	14512900000	13884800000	13573700000	14257800000	4
MCPA	9483790000	10343700000	10486600000	10309100000	10400300000	10204700000	4
MCPP	5526200000	7096500000	7438810000	7432240000	7679580000	7034670000	12
Pentachlorophenol	44914200000	45659800000	44138100000	40921500000	33046500000	41736000000	12
PICLORAM	27386000000	29100400000	28970000000	27917200000	27425100000	28159700000	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

Instrument ID: ECD_S **Calibration Date(s):** 11/13/2024 11/13/2024
Calibration Times: 11:44 13:23

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028488.D</u>		CF 500 = <u>PS028489.D</u>			
CF 750 = <u>PS028490.D</u>		CF 1000 = <u>PS028491.D</u>		CF 1500 = <u>PS028492.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	8025570000	8639330000	8638960000	8380390000	8227530000	8382360000	3
2,4,5-TP(Silvex)	8015310000	8674200000	8711600000	8465070000	8325300000	8438300000	3
2,4-D	1549260000	1596990000	1592240000	1549180000	1540080000	1565550000	2
2,4-DB	1001820000	1055890000	1068810000	1049150000	1063010000	1047740000	3
2,4-DCAA	1280520000	1318140000	1312940000	1279750000	1270170000	1292300000	2
3,5-DICHLOROBENZOIC	1889920000	1974960000	1969830000	1919810000	1907490000	1932400000	2
4-Nitrophenol	881256000	881049000	869521000	843765000	841382000	863395000	2
Dalapon	2313790000	2430440000	2468450000	2435700000	2451210000	2419920000	3
DCPA	9066790000	10009100000	10041000000	9759640000	9615670000	9698430000	4
DICAMBA	5125500000	5785090000	5914080000	5838640000	5857070000	5704080000	6
DICHLORPROP	1425030000	1481610000	1488150000	1453050000	1455000000	1460570000	2
Dinoseb	5291460000	5640670000	5677020000	5515940000	5517420000	5528500000	3
MCPA	6152190000	6279400000	6266200000	6127550000	6141900000	6193450000	1
MCPP	3879220000	4334830000	4442220000	4388030000	4460400000	4300940000	6
Pentachlorophenol	19245900000	20983900000	20830900000	19989700000	19176300000	20045300000	4
PICLORAM	9816960000	11492400000	11788000000	11698100000	11799800000	11319000000	8

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.43	7.43	7.33	7.53	0.00
MCPD	7.61	7.61	7.51	7.71	0.00
2,4-DCAA	7.24	7.24	7.14	7.34	0.00
Dalapon	2.63	2.64	2.54	2.74	0.01
MCPA	7.76	7.76	7.66	7.86	0.00
DICHLORPROP	8.14	8.14	8.04	8.24	0.00
2,4-D	8.37	8.37	8.27	8.47	0.00
2,4,5-TP(Silvex)	9.25	9.25	9.15	9.35	0.00
2,4,5-T	9.54	9.54	9.44	9.64	0.00
2,4-DB	10.12	10.12	10.02	10.22	0.00
Dinoseb	11.33	11.33	11.23	11.43	0.00
Pentachlorophenol	8.67	8.67	8.57	8.77	0.00
4-Nitrophenol	7.04	7.04	6.94	7.14	0.00
PICLORAM	11.14	11.14	11.04	11.24	0.00
DCPA	11.63	11.63	11.53	11.73	0.00
3,5-DICHLOROBENZ	6.41	6.41	6.31	6.51	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.94	7.94	7.84	8.04	0.00
MCPD	8.04	8.05	7.95	8.15	0.01
2,4-DCAA	7.74	7.74	7.64	7.84	0.00
Dalapon	2.69	2.70	2.60	2.80	0.01
MCPA	8.29	8.29	8.19	8.39	0.00
DICHLORPROP	8.66	8.66	8.56	8.76	0.00
2,4-D	8.99	8.99	8.89	9.09	0.00
2,4,5-TP(Silvex)	9.89	9.90	9.80	10.00	0.01
2,4,5-T	10.31	10.32	10.22	10.42	0.01
2,4-DB	10.88	10.88	10.78	10.98	0.00
Dinoseb	11.26	11.26	11.16	11.36	0.00
Pentachlorophenol	9.52	9.52	9.42	9.62	0.00
4-Nitrophenol	7.27	7.27	7.17	7.37	0.00
PICLORAM	12.36	12.36	12.26	12.46	0.00
DCPA	12.31	12.31	12.21	12.41	0.00
3,5-DICHLOROBENZ	6.69	6.70	6.60	6.80	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL01 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028534.D Time Analyzed: 12:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.543	9.443	9.643	755.870	712.500	6.1
2,4,5-TP(Silvex)	9.249	9.150	9.350	759.220	712.500	6.6
2,4-D	8.369	8.270	8.470	736.520	705.000	4.5
2,4-DB	10.118	10.019	10.219	773.480	712.500	8.6
2,4-DCAA	7.240	7.141	7.341	762.420	750.000	1.7
3,5-DICHLOROBENZOIC ACID	6.410	6.311	6.511	713.710	697.500	2.3
4-Nitrophenol	7.039	6.939	7.139	678.040	682.500	-0.7
Dalapon	2.634	2.539	2.739	656.070	682.500	-3.9
DCPA	11.625	11.526	11.726	700.890	720.000	-2.7
DICAMBA	7.428	7.329	7.529	751.910	705.000	6.7
DICHLORPROP	8.138	8.039	8.239	707.800	705.000	0.4
Dinoseb	11.332	11.233	11.433	756.040	705.000	7.2
MCPA	7.762	7.663	7.863	74.130	69.750	6.3
MCPP	7.612	7.512	7.712	80.190	70.500	13.7
Pentachlorophenol	8.669	8.570	8.770	793.700	712.500	11.4
PICLORAM	11.138	11.039	11.239	722.400	712.500	1.4

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL01 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028534.D Time Analyzed: 12:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.314	10.216	10.416	759.140	712.500	6.5
2,4,5-TP(Silvex)	9.893	9.796	9.996	766.920	712.500	7.6
2,4-D	8.987	8.890	9.090	744.150	705.000	5.6
2,4-DB	10.882	10.784	10.984	752.580	712.500	5.6
2,4-DCAA	7.740	7.642	7.842	765.530	750.000	2.1
3,5-DICHLOROBENZOIC ACID	6.693	6.595	6.795	713.760	697.500	2.3
4-Nitrophenol	7.266	7.168	7.368	675.750	682.500	-1.0
Dalapon	2.693	2.599	2.799	630.950	682.500	-7.6
DCPA	12.306	12.208	12.408	694.870	720.000	-3.5
DICAMBA	7.940	7.842	8.042	758.700	705.000	7.6
DICHLORPROP	8.657	8.559	8.759	722.790	705.000	2.5
Dinoseb	11.261	11.163	11.363	752.810	705.000	6.8
MCPA	8.288	8.191	8.391	71.570	69.750	2.6
MCPP	8.043	7.945	8.145	76.500	70.500	8.5
Pentachlorophenol	9.516	9.419	9.619	777.580	712.500	9.1
PICLORAM	12.357	12.260	12.460	730.530	712.500	2.5

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 20:40 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.43	7.43	7.33	7.53	0.00
MCP	7.61	7.61	7.51	7.71	0.00
2,4-DCAA	7.24	7.24	7.14	7.34	0.00
Dalapon	2.63	2.64	2.54	2.74	0.01
MCPA	7.76	7.76	7.66	7.86	0.00
DICHLORPROP	8.14	8.14	8.04	8.24	0.00
2,4-D	8.37	8.37	8.27	8.47	0.00
2,4,5-TP(Silvex)	9.25	9.25	9.15	9.35	0.00
2,4,5-T	9.54	9.54	9.44	9.64	0.00
2,4-DB	10.12	10.12	10.02	10.22	0.00
Dinoseb	11.33	11.33	11.23	11.43	0.00
Pentachlorophenol	8.67	8.67	8.57	8.77	0.00
4-Nitrophenol	7.04	7.04	6.94	7.14	0.00
PICLORAM	11.14	11.14	11.04	11.24	0.00
DCPA	11.62	11.63	11.53	11.73	0.01
3,5-DICHLOROBENZ	6.41	6.41	6.31	6.51	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/14/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 20:40 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.94	7.94	7.84	8.04	0.00
MCPD	8.04	8.05	7.95	8.15	0.01
2,4-DCAA	7.74	7.74	7.64	7.84	0.00
Dalapon	2.69	2.70	2.60	2.80	0.01
MCPA	8.29	8.29	8.19	8.39	0.00
DICHLORPROP	8.66	8.66	8.56	8.76	0.01
2,4-D	8.99	8.99	8.89	9.09	0.00
2,4,5-TP(Silvex)	9.89	9.90	9.80	10.00	0.01
2,4,5-T	10.31	10.32	10.22	10.42	0.01
2,4-DB	10.88	10.88	10.78	10.98	0.00
Dinoseb	11.26	11.26	11.16	11.36	0.00
Pentachlorophenol	9.52	9.52	9.42	9.62	0.00
4-Nitrophenol	7.27	7.27	7.17	7.37	0.01
PICLORAM	12.36	12.36	12.26	12.46	0.00
DCPA	12.31	12.31	12.21	12.41	0.00
3,5-DICHLOROBENZ	6.69	6.70	6.60	6.80	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL02 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028545.D Time Analyzed: 20:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.541	9.443	9.643	770.840	712.500	8.2
2,4,5-TP(Silvex)	9.248	9.150	9.350	775.590	712.500	8.9
2,4-D	8.368	8.270	8.470	754.130	705.000	7.0
2,4-DB	10.117	10.019	10.219	792.690	712.500	11.3
2,4-DCAA	7.239	7.141	7.341	779.080	750.000	3.9
3,5-DICHLOROBENZOIC ACID	6.410	6.311	6.511	728.310	697.500	4.4
4-Nitrophenol	7.038	6.939	7.139	690.420	682.500	1.2
Dalapon	2.633	2.539	2.739	671.270	682.500	-1.6
DCPA	11.624	11.526	11.726	718.820	720.000	-0.2
DICAMBA	7.427	7.329	7.529	767.520	705.000	8.9
DICHLORPROP	8.137	8.039	8.239	724.010	705.000	2.7
Dinoseb	11.330	11.233	11.433	777.230	705.000	10.2
MCPA	7.761	7.663	7.863	75.310	69.750	8.0
MCPP	7.611	7.512	7.712	80.840	70.500	14.7
Pentachlorophenol	8.668	8.570	8.770	809.590	712.500	13.6
PICLORAM	11.137	11.039	11.239	729.270	712.500	2.4

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL02 Date Analyzed: 11/14/2024

Lab Sample No.: HSTDCCC750 Data File : PS028545.D Time Analyzed: 20:40

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.313	10.216	10.416	771.980	712.500	8.3
2,4,5-TP(Silvex)	9.892	9.796	9.996	780.280	712.500	9.5
2,4-D	8.986	8.890	9.090	757.930	705.000	7.5
2,4-DB	10.880	10.784	10.984	763.510	712.500	7.2
2,4-DCAA	7.739	7.642	7.842	775.870	750.000	3.4
3,5-DICHLOROBENZOIC ACID	6.692	6.595	6.795	723.600	697.500	3.7
4-Nitrophenol	7.265	7.168	7.368	688.130	682.500	0.8
Dalapon	2.694	2.599	2.799	645.900	682.500	-5.4
DCPA	12.305	12.208	12.408	702.620	720.000	-2.4
DICAMBA	7.939	7.842	8.042	772.000	705.000	9.5
DICHLORPROP	8.655	8.559	8.759	727.180	705.000	3.1
Dinoseb	11.260	11.163	11.363	770.740	705.000	9.3
MCPA	8.287	8.191	8.391	72.210	69.750	3.5
MCPP	8.042	7.945	8.145	77.010	70.500	9.2
Pentachlorophenol	9.516	9.419	9.619	791.850	712.500	11.1
PICLORAM	12.356	12.260	12.460	735.290	712.500	3.2

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 10:14 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.41	7.43	7.33	7.53	0.02
MCP	7.60	7.61	7.51	7.71	0.01
2,4-DCAA	7.23	7.24	7.14	7.34	0.01
Dalapon	2.64	2.64	2.54	2.74	0.01
MCPA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.12	8.14	8.04	8.24	0.02
2,4-D	8.35	8.37	8.27	8.47	0.02
2,4,5-TP(Silvex)	9.23	9.25	9.15	9.35	0.02
2,4,5-T	9.52	9.54	9.44	9.64	0.02
2,4-DB	10.10	10.12	10.02	10.22	0.02
Dinoseb	11.31	11.33	11.23	11.43	0.02
Pentachlorophenol	8.65	8.67	8.57	8.77	0.02
4-Nitrophenol	7.03	7.04	6.94	7.14	0.01
PICLORAM	11.11	11.14	11.04	11.24	0.03
DCPA	11.60	11.63	11.53	11.73	0.03
3,5-DICHLOROBENZ	6.40	6.41	6.31	6.51	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 10:14 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.93	7.94	7.84	8.04	0.01
MCP	8.03	8.05	7.95	8.15	0.02
2,4-DCAA	7.73	7.74	7.64	7.84	0.01
Dalapon	2.69	2.70	2.60	2.80	0.01
MCPA	8.27	8.29	8.19	8.39	0.02
DICHLORPROP	8.64	8.66	8.56	8.76	0.02
2,4-D	8.97	8.99	8.89	9.09	0.02
2,4,5-TP(Silvex)	9.88	9.90	9.80	10.00	0.02
2,4,5-T	10.30	10.32	10.22	10.42	0.02
2,4-DB	10.86	10.88	10.78	10.98	0.02
Dinoseb	11.24	11.26	11.16	11.36	0.02
Pentachlorophenol	9.50	9.52	9.42	9.62	0.02
4-Nitrophenol	7.25	7.27	7.17	7.37	0.02
PICLORAM	12.34	12.36	12.26	12.46	0.02
DCPA	12.28	12.31	12.21	12.41	0.03
3,5-DICHLOROBENZ	6.68	6.70	6.60	6.80	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL03 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028614.D Time Analyzed: 10:14

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.521	9.443	9.643	764.730	712.500	7.3
2,4,5-TP(Silvex)	9.229	9.150	9.350	772.700	712.500	8.4
2,4-D	8.352	8.270	8.470	746.500	705.000	5.9
2,4-DB	10.095	10.019	10.219	722.880	712.500	1.5
2,4-DCAA	7.226	7.141	7.341	786.480	750.000	4.9
3,5-DICHLOROBENZOIC ACID	6.398	6.311	6.511	747.950	697.500	7.2
4-Nitrophenol	7.025	6.939	7.139	731.160	682.500	7.1
Dalapon	2.635	2.539	2.739	722.540	682.500	5.9
DCPA	11.599	11.526	11.726	773.680	720.000	7.5
DICAMBA	7.414	7.329	7.529	775.860	705.000	10.1
DICHLORPROP	8.121	8.039	8.239	754.340	705.000	7.0
Dinoseb	11.305	11.233	11.433	751.080	705.000	6.5
MCPA	7.746	7.663	7.863	74.370	69.750	6.6
MCPP	7.596	7.512	7.712	75.810	70.500	7.5
Pentachlorophenol	8.650	8.570	8.770	813.670	712.500	14.2
PICLORAM	11.113	11.039	11.239	641.340	712.500	-10.0

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL03 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028614.D Time Analyzed: 10:14

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.295	10.216	10.416	712.820	712.500	0.0
2,4,5-TP(Silvex)	9.876	9.796	9.996	738.720	712.500	3.7
2,4-D	8.971	8.890	9.090	693.470	705.000	-1.6
2,4-DB	10.862	10.784	10.984	640.620	712.500	-10.1
2,4-DCAA	7.726	7.642	7.842	712.370	750.000	-5.0
3,5-DICHLOROBENZOIC ACID	6.683	6.595	6.795	679.230	697.500	-2.6
4-Nitrophenol	7.254	7.168	7.368	673.810	682.500	-1.3
Dalapon	2.694	2.599	2.799	638.130	682.500	-6.5
DCPA	12.284	12.208	12.408	759.250	720.000	5.5
DICAMBA	7.926	7.842	8.042	721.200	705.000	2.3
DICHLORPROP	8.642	8.559	8.759	687.480	705.000	-2.5
Dinoseb	11.241	11.163	11.363	693.240	705.000	-1.7
MCPA	8.274	8.191	8.391	62.820	69.750	-9.9
MCPP	8.029	7.945	8.145	64.370	70.500	-8.7
Pentachlorophenol	9.499	9.419	9.619	759.150	712.500	6.5
PICLORAM	12.335	12.260	12.460	612.260	712.500	-14.1

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 11:51 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.41	7.43	7.33	7.53	0.02
MCP	7.60	7.61	7.51	7.71	0.01
2,4-DCAA	7.23	7.24	7.14	7.34	0.01
Dalapon	2.64	2.64	2.54	2.74	0.01
MCPA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.12	8.14	8.04	8.24	0.02
2,4-D	8.35	8.37	8.27	8.47	0.02
2,4,5-TP(Silvex)	9.23	9.25	9.15	9.35	0.02
2,4,5-T	9.52	9.54	9.44	9.64	0.02
2,4-DB	10.10	10.12	10.02	10.22	0.02
Dinoseb	11.31	11.33	11.23	11.43	0.02
Pentachlorophenol	8.65	8.67	8.57	8.77	0.02
4-Nitrophenol	7.03	7.04	6.94	7.14	0.01
PICLORAM	11.11	11.14	11.04	11.24	0.03
DCPA	11.60	11.63	11.53	11.73	0.03
3,5-DICHLOROBENZ	6.40	6.41	6.31	6.51	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Continuing Calib Date: 11/25/2024 Initial Calibration Date(s): 11/13/2024 11/13/2024

Continuing Calib Time: 11:51 Initial Calibration Time(s): 11:44 13:23

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.93	7.94	7.84	8.04	0.01
MCPD	8.03	8.05	7.95	8.15	0.02
2,4-DCAA	7.73	7.74	7.64	7.84	0.01
Dalapon	2.70	2.70	2.60	2.80	0.01
MCPA	8.27	8.29	8.19	8.39	0.02
DICHLORPROP	8.64	8.66	8.56	8.76	0.02
2,4-D	8.97	8.99	8.89	9.09	0.02
2,4,5-TP(Silvex)	9.88	9.90	9.80	10.00	0.02
2,4,5-T	10.30	10.32	10.22	10.42	0.02
2,4-DB	10.86	10.88	10.78	10.98	0.02
Dinoseb	11.24	11.26	11.16	11.36	0.02
Pentachlorophenol	9.50	9.52	9.42	9.62	0.02
4-Nitrophenol	7.25	7.27	7.17	7.37	0.02
PICLORAM	12.34	12.36	12.26	12.46	0.02
DCPA	12.29	12.31	12.21	12.41	0.03
3,5-DICHLOROBENZ	6.68	6.70	6.60	6.80	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL04 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028618.D Time Analyzed: 11:51

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.520	9.443	9.643	772.000	712.500	8.4
2,4,5-TP(Silvex)	9.228	9.150	9.350	772.960	712.500	8.5
2,4-D	8.351	8.270	8.470	748.480	705.000	6.2
2,4-DB	10.095	10.019	10.219	739.400	712.500	3.8
2,4-DCAA	7.226	7.141	7.341	760.440	750.000	1.4
3,5-DICHLOROBENZOIC ACID	6.400	6.311	6.511	747.220	697.500	7.1
4-Nitrophenol	7.025	6.939	7.139	731.460	682.500	7.2
Dalapon	2.635	2.539	2.739	716.670	682.500	5.0
DCPA	11.598	11.526	11.726	773.240	720.000	7.4
DICAMBA	7.414	7.329	7.529	772.410	705.000	9.6
DICHLORPROP	8.121	8.039	8.239	752.250	705.000	6.7
Dinoseb	11.305	11.233	11.433	746.680	705.000	5.9
MCPA	7.747	7.663	7.863	72.770	69.750	4.3
MCPP	7.597	7.512	7.712	76.060	70.500	7.9
Pentachlorophenol	8.650	8.570	8.770	813.880	712.500	14.2
PICLORAM	11.113	11.039	11.239	708.400	712.500	-0.6

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/13/2024 11/13/2024

Client Sample No.: CCAL04 Date Analyzed: 11/25/2024

Lab Sample No.: HSTDCCC750 Data File : PS028618.D Time Analyzed: 11:51

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.296	10.216	10.416	730.860	712.500	2.6
2,4,5-TP(Silvex)	9.877	9.796	9.996	749.410	712.500	5.2
2,4-D	8.972	8.890	9.090	704.430	705.000	-0.1
2,4-DB	10.863	10.784	10.984	664.870	712.500	-6.7
2,4-DCAA	7.727	7.642	7.842	727.560	750.000	-3.0
3,5-DICHLOROBENZOIC ACID	6.684	6.595	6.795	690.120	697.500	-1.1
4-Nitrophenol	7.254	7.168	7.368	694.190	682.500	1.7
Dalapon	2.695	2.599	2.799	670.080	682.500	-1.8
DCPA	12.285	12.208	12.408	773.750	720.000	7.5
DICAMBA	7.926	7.842	8.042	732.130	705.000	3.8
DICHLORPROP	8.642	8.559	8.759	693.330	705.000	-1.7
Dinoseb	11.242	11.163	11.363	697.790	705.000	-1.0
MCPA	8.274	8.191	8.391	62.280	69.750	-10.7
MCPP	8.030	7.945	8.145	63.310	70.500	-10.2
Pentachlorophenol	9.500	9.419	9.619	772.470	712.500	8.4
PICLORAM	12.335	12.260	12.460	694.580	712.500	-2.5

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: ECD_S

GC Column: RTX-CLP

ID: 0.32 (mm)

Inst. Calib. Date(s): 11/13/2024

11/13/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	11/13/2024	11:20	PS028487.D	7.24	0.00
HSTDICC200	HSTDICC200	11/13/2024	11:44	PS028488.D	7.24	0.00
HSTDICC500	HSTDICC500	11/13/2024	12:09	PS028489.D	7.24	0.00
HSTDICC750	HSTDICC750	11/13/2024	12:34	PS028490.D	7.24	0.00
HSTDICC1000	HSTDICC1000	11/13/2024	12:58	PS028491.D	7.24	0.00
HSTDICC1500	HSTDICC1500	11/13/2024	13:23	PS028492.D	7.24	0.00
IBLK	IBLK	11/14/2024	11:38	PS028533.D	7.24	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	12:02	PS028534.D	7.24	0.00
PB164971BL	PB164971BL	11/14/2024	16:35	PS028535.D	7.24	0.00
PB164971BS	PB164971BS	11/14/2024	17:00	PS028536.D	7.24	0.00
BP-F-2MS	P4821-05MS	11/14/2024	18:14	PS028539.D	7.24	0.00
BP-F-2MSD	P4821-05MSD	11/14/2024	18:38	PS028540.D	7.24	0.00
IBLK	IBLK	11/14/2024	20:16	PS028544.D	7.24	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	20:40	PS028545.D	7.24	0.00
IBLK	IBLK	11/25/2024	09:50	PS028613.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	10:14	PS028614.D	7.23	0.00
PT-HERB-SOIL	P4495-17	11/25/2024	10:39	PS028615.D	7.22	0.00
PT-HERB-SOILRE	P4495-17RE	11/25/2024	11:03	PS028616.D	7.22	0.00
IBLK	IBLK	11/25/2024	11:27	PS028617.D	7.23	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	11:51	PS028618.D	7.23	0.00

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: ECD_S

GC Column: RTX-CLP2

ID: 0.32 (mm)

Inst. Calib. Date(s): 11/13/2024

11/13/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	11/13/2024	11:20	PS028487.D	7.74	0.00
HSTDICC200	HSTDICC200	11/13/2024	11:44	PS028488.D	7.74	0.00
HSTDICC500	HSTDICC500	11/13/2024	12:09	PS028489.D	7.74	0.00
HSTDICC750	HSTDICC750	11/13/2024	12:34	PS028490.D	7.74	0.00
HSTDICC1000	HSTDICC1000	11/13/2024	12:58	PS028491.D	7.74	0.00
HSTDICC1500	HSTDICC1500	11/13/2024	13:23	PS028492.D	7.74	0.00
IBLK	IBLK	11/14/2024	11:38	PS028533.D	7.74	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	12:02	PS028534.D	7.74	0.00
PB164971BL	PB164971BL	11/14/2024	16:35	PS028535.D	7.74	0.00
PB164971BS	PB164971BS	11/14/2024	17:00	PS028536.D	7.74	0.00
BP-F-2MS	P4821-05MS	11/14/2024	18:14	PS028539.D	7.74	0.00
BP-F-2MSD	P4821-05MSD	11/14/2024	18:38	PS028540.D	7.74	0.00
IBLK	IBLK	11/14/2024	20:16	PS028544.D	7.74	0.00
HSTDCCC750	HSTDCCC750	11/14/2024	20:40	PS028545.D	7.74	0.00
IBLK	IBLK	11/25/2024	09:50	PS028613.D	7.73	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	10:14	PS028614.D	7.73	0.00
PT-HERB-SOIL	P4495-17	11/25/2024	10:39	PS028615.D	7.73	0.00
PT-HERB-SOILRE	P4495-17RE	11/25/2024	11:03	PS028616.D	7.73	0.00
IBLK	IBLK	11/25/2024	11:27	PS028617.D	7.73	0.00
HSTDCCC750	HSTDCCC750	11/25/2024	11:51	PS028618.D	7.73	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-2MS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: P4821-05MS

Date(s) Analyzed: 11/14/2024

11/14/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	9.54	9.49	9.59	131	0.8
	2	10.31	10.26	10.36	130	
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	129	0.8
	2	9.89	9.84	9.94	130	
2,4-D	1	8.37	8.32	8.42	157	1.9
	2	8.99	8.94	9.04	154	
2,4-DB	1	10.12	10.07	10.17	115	2.6
	2	10.88	10.83	10.93	118	
4-Nitrophenol	1	7.04	6.99	7.09	126	3.9
	2	7.27	7.22	7.32	131	
3,5-DICHLOROBENZOIC ACID	1	6.41	6.36	6.46	141	8.1
	2	6.69	6.64	6.74	130	
Dalapon	1	2.63	2.58	2.68	75.0	35.2
	2	2.70	2.65	2.75	107	
MCPA	1	7.76	7.71	7.81	12.7	1.6
	2	8.28	8.23	8.33	12.9	
DICHLORPROP	1	8.14	8.09	8.19	136	5.3
	2	8.66	8.61	8.71	129	
Pentachlorophenol	1	8.67	8.62	8.72	116	5.3
	2	9.52	9.47	9.57	110	
PICLORAM	1	11.14	11.09	11.19	113	7.3
	2	12.36	12.31	12.41	105	
DICAMBA	1	7.43	7.38	7.48	142	2.1
	2	7.94	7.89	7.99	139	
MCPP	1	7.61	7.56	7.66	11.9	0.8
	2	8.04	7.99	8.09	12.0	
DCPA	1	11.62	11.57	11.67	118	21.9
	2	12.31	12.26	12.36	147	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

BP-F-2MSD

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: P4821-05MSD

Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column:(2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Dalapon	1	2.63	2.58	2.68	76.8	27.2
	2	2.70	2.65	2.75	101	
MCPA	1	7.76	7.71	7.81	12.9	1.5
	2	8.28	8.23	8.33	13.1	
DICHLORPROP	1	8.14	8.09	8.19	137	4.5
	2	8.66	8.61	8.71	131	
2,4-D	1	8.37	8.32	8.42	159	1.9
	2	8.99	8.94	9.04	156	
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	131	0
	2	9.89	9.84	9.94	131	
2,4,5-T	1	9.54	9.49	9.59	134	2.3
	2	10.31	10.26	10.36	131	
2,4-DB	1	10.12	10.07	10.17	118	1.7
	2	10.88	10.83	10.93	120	
Pentachlorophenol	1	8.67	8.62	8.72	118	6.1
	2	9.52	9.47	9.57	111	
4-Nitrophenol	1	7.04	6.99	7.09	128	3.8
	2	7.27	7.22	7.32	133	
PICLORAM	1	11.14	11.09	11.19	116	8.1
	2	12.36	12.31	12.41	107	
3,5-DICHLOROBENZOIC ACID	1	6.41	6.36	6.46	143	8.8
	2	6.69	6.64	6.74	131	
DICAMBA	1	7.43	7.38	7.48	143	2.1
	2	7.94	7.89	7.99	140	
MCPP	1	7.61	7.56	7.66	11.9	2.5
	2	8.04	7.99	8.09	12.2	
DCPA	1	11.62	11.57	11.67	120	20.9
	2	12.31	12.26	12.36	148	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164971BS

Contract: CHEM02

Lab Code: CHEM

Case No.: P4495

SAS No.: P4495

SDG NO.: P4495

Lab Sample ID: PB164971BS

Date(s) Analyzed: 11/14/2024

11/14/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP

ID: 0.32 (mm)

GC Column:(2): RTX-CLP2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	173	1.2
	2	9.89	9.84	9.94	171	
2,4,5-T	1	9.54	9.49	9.59	172	1.8
	2	10.31	10.26	10.36	169	
Dalapon	1	2.63	2.58	2.68	151	2
	2	2.70	2.65	2.75	148	
MCPA	1	7.76	7.71	7.81	15.9	1.9
	2	8.29	8.24	8.34	15.6	
DICHLORPROP	1	8.14	8.09	8.19	170	1.2
	2	8.66	8.61	8.71	168	
2,4-D	1	8.37	8.32	8.42	169	0
	2	8.99	8.94	9.04	169	
2,4-DB	1	10.12	10.07	10.17	166	0.6
	2	10.88	10.83	10.93	165	
Dinoseb	1	11.33	11.28	11.38	163	3.1
	2	11.26	11.21	11.31	158	
Pentachlorophenol	1	8.67	8.62	8.72	182	3.4
	2	9.52	9.47	9.57	176	
4-Nitrophenol	1	7.04	6.99	7.09	159	0.6
	2	7.27	7.22	7.32	160	
PICLORAM	1	11.14	11.09	11.19	141	5.1
	2	12.36	12.31	12.41	134	
3,5-DICHLOROBENZOIC ACID	1	6.41	6.36	6.46	169	1.8
	2	6.69	6.64	6.74	166	
DICAMBA	1	7.43	7.38	7.48	169	1.2
	2	7.94	7.89	7.99	167	
MCPD	1	7.61	7.56	7.66	16.2	4.4
	2	8.04	7.99	8.09	15.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164971BS

Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: PB164971BS Date(s) Analyzed: 11/14/2024 11/14/2024

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm) GC Column:(2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DCPA	1	11.62	11.57	11.67	174	1.7
	2	12.30	12.25	12.35	171	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-HERB-SOIL

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: P4495-17

Date(s) Analyzed: 11/25/2024 11/25/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column: (2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICHLORPROP	1	8.12	8.07	8.17	203	3.5
	2	8.64	8.59	8.69	196	
2,4-D	1	8.35	8.30	8.40	223	7.4
	2	8.97	8.92	9.02	207	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	140	3.5
	2	9.88	9.83	9.93	145	
2,4,5-T	1	9.52	9.47	9.57	150	2.6
	2	10.30	10.25	10.35	154	
2,4-DB	1	10.14	10.09	10.19	27.0	157.3
	2	10.86	10.81	10.91	226	
Dinoseb	1	11.31	11.26	11.36	89.5	42.2
	2	11.24	11.19	11.29	58.3	
Pentachlorophenol	1	8.65	8.60	8.70	78.7	20
	2	9.50	9.45	9.55	64.4	
DICAMBA	1	7.41	7.36	7.46	158	2.6
	2	7.93	7.88	7.98	154	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-HERB-SOILRE

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab Sample ID: P4495-17RE

Date(s) Analyzed: 11/25/2024 11/25/2024

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP ID: 0.32 (mm)

GC Column:(2): RTX-CLP2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICHLORPROP	1	8.12	8.07	8.17	203	0.5
	2	8.64	8.59	8.69	202	
2,4-D	1	8.35	8.30	8.40	224	6.5
	2	8.97	8.92	9.02	210	
2,4,5-TP(Silvex)	1	9.23	9.18	9.28	140	2.1
	2	9.88	9.83	9.93	143	
2,4,5-T	1	9.52	9.47	9.57	145	9.8
	2	10.30	10.25	10.35	160	
2,4-DB	1	10.14	10.09	10.19	38.6	141.6
	2	10.86	10.81	10.91	226	
Dinoseb	1	11.31	11.26	11.36	83.6	39.5
	2	11.24	11.19	11.29	56.0	
Pentachlorophenol	1	8.65	8.60	8.70	74.3	11.5
	2	9.50	9.45	9.55	66.2	
DICAMBA	1	7.41	7.36	7.46	159	1.3
	2	7.93	7.88	7.98	157	

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	PT-DIES-SOIL	SOIL	Diesel Range Organics	8015D	10/21/24	10/24/24	10/25/24	10/23/24
P4495-15	PT-GAS-SOIL	SOIL	Gasoline Range Organics	8015D	10/21/24		10/30/24	10/23/24
P4495-16	PT-NJEPH-SOIL	Solid	EPH	NJEPH	10/21/24	10/25/24	10/28/24	10/23/24
			EPH	NJEPH		10/25/24	10/29/24	
			EPH	NJEPH		10/25/24	10/28/24	
P4495-16DL 2	PT-NJEPH-SOILDL2	Solid	EPH	NJEPH	10/21/24	10/25/24	10/28/24	10/23/24
P4495-17	PT-HERB-SOIL	SOIL	Herbicide Group1	8151A	10/21/24	11/14/24	11/25/24	10/23/24
P4495-17RE	PT-HERB-SOILRE	SOIL	Herbicide Group1	8151A	10/21/24	11/14/24	11/25/24	10/23/24
P4495-18	PT-PCB-SOIL	SOIL	PCB	8082A	10/21/24	10/25/24	10/25/24	10/23/24
P4495-18DL	PT-PCB-SOIL DL	SOIL	PCB	8082A	10/21/24	10/25/24	10/25/24	10/23/24
P4495-19	PT-PCBO-SOIL	SOIL	PCB	8082A	10/21/24	10/25/24	10/28/24	10/23/24
P4495-19DL	PT-PCBO-SOILDL	SOIL			10/21/24			10/23/24

LAB CHRONICLE

			PCB	8082A		10/25/24	10/28/24	
P4495-20	PT-PEST-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL 2	PT-PEST-SOILDL2	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	PT-CHLR-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	PT-TXP-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	PT-TXP-SOILDL	SOIL			10/21/24			10/23/24
			PESTICIDE Group3	8081B		10/25/24	10/31/24	



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-DIES-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-14	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	20.12 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014778.D	50	10/24/24 11:10	10/25/24 8:27	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1300000		13800	124000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.40		37 - 130	100%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



QC SUMMARY

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: Chemtech Consulting Group
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF014756.D	82				0
PIBLK-FF014763.D	85				0
PIBLK-FF014772.D	80				0
PIBLK-FF014775.D	99				0
PIBLK-FF014786.D	83				0
PT-DIES-SOIL	100				0
EX-5-TPH-1MS	58				0
EX-5-TPH-1MSD	53				0
PB164381BL	77				0
PB164381BS	80				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130

For Soil : 37-130

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted Out

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Client SampleID : EX-5-TPH-1MS **Datafile:** FF014766.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8478	1390000	968000	-4978%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Client SampleID : EX-5-TPH-1MSD **Datafile:** FF014767.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8484	1390000	917000	-5575%	*	68-131

MS/MSD % Recovery RPD : 11.3

SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Matrix Spike - EPA Sample No : PB164381BS **Datafile:** FF014760.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6664	0	6639	100	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164381BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Lab File ID: FF014759.D

Lab Sample ID: PB164381BL

Instrument ID: FF

Date Extracted: 10/24/2024

Matrix: (soil/water) Soil

Date Analyzed: 10/24/24

Level: (low/med) low

Time Analyzed: 14:33

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164381BS	PB164381BS	FF014760.D	10/24/24
EX-5-TPH-1MS	P4518-01MS	FF014766.D	10/24/24
EX-5-TPH-1MSD	P4518-01MSD	FF014767.D	10/24/24
PT-DIES-SOIL	P4495-14	FF014778.D	10/25/24

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164381BL		SDG No.:	P4495	
Lab Sample ID:	PB164381BL		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	100	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014759.D	1	10/24/24 11:10	10/24/24 14:33	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	185	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.5		37 - 130	77%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/24/24	
Project:	NJ Soil PT		Date Received:	10/24/24	
Client Sample ID:	PIBLK-FF014756.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-FF014756.D		Matrix:	Water	
Analytical Method:			% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014756.D	1		10/24/24	FF102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.3		29 - 130	82%	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/24/24	
Project:	NJ Soil PT		Date Received:	10/24/24	
Client Sample ID:	PIBLK-FF014763.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-FF014763.D		Matrix:	Water	
Analytical Method:			% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014763.D	1		10/24/24	FF102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	85%	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	10/24/24	
Project:	NJ Soil PT		Date Received:	10/24/24	
Client Sample ID:	PIBLK-FF014772.D		SDG No.:	P4495	
Lab Sample ID:	I.BLK-FF014772.D		Matrix:	Water	
Analytical Method:			% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014772.D	1		10/24/24	FF102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.1		29 - 130	80%	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/25/24
Project:	NJ Soil PT	Date Received:	10/25/24
Client Sample ID:	PIBLK-FF014775.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-FF014775.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014775.D	1		10/25/24	FF102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	19.9		29 - 130	99%	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/25/24
Project:	NJ Soil PT	Date Received:	10/25/24
Client Sample ID:	PIBLK-FF014786.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-FF014786.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014786.D	1		10/25/24	FF102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.6		29 - 130	83%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	PB164381BS		SDG No.:	P4495	
Lab Sample ID:	PB164381BS		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014760.D	1	10/24/24 11:10	10/24/24 15:02	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6640		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.9		37 - 130	80%	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/23/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	EX-5-TPH-1MS	SDG No.:	P4495
Lab Sample ID:	P4518-01MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	78.5
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014766.D	1	10/24/24 11:10	10/24/24 19:58	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	968000	E	235	2120	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.5		37 - 130	58%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/23/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	EX-5-TPH-1MSD	SDG No.:	P4495
Lab Sample ID:	P4518-01MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	78.5
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF014767.D	1	10/24/24 11:10	10/24/24 20:27	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	917000	E	235	2120	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.7		37 - 130	53%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



CALIBRATION SUMMARY

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CHEM02
 ProjectID: NJ Soil PT
 Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Calibration Sequence : FF102124		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	140350994	140351	FF014706.D
500	71252825	142506	FF014707.D
200	29731497	148657	FF014708.D
100	14736133	147361	FF014709.D
50	7756416	155128	FF014710.D
AVG RF : 146801		% RSD : 3.93	AVG RT : 14.9988

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
 Data File : FF014706.D
 Signal(s) : FID2B.ch
 Acq On : 21 Oct 2024 15:19
 Operator : YP\AJ
 Sample : 100 TRPH STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 100 TRPH STD

Integration File: autoint1.e
 Quant Time: Oct 21 16:33:12 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
 Quant Title :
 QLast Update : Mon Oct 21 16:33:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.004	12616850	97.686 ug/ml
Target Compounds			
1) N-OCTANE	2.043	13303881	97.457 ug/ml
2) N-DECANE	4.565	13643519	97.480 ug/ml
3) N-DODECANE	6.728	13881024	97.606 ug/ml
4) N-TETRADECANE	8.553	14019933	97.646 ug/ml
5) N-HEXADECANE	10.158	14084820	97.688 ug/ml
6) N-OCTADECANE	11.600	14358713	97.581 ug/ml
7) N-EICOSANE	12.909	14522471	97.553 ug/ml
8) N-DOCOSANE	14.105	14098837	97.674 ug/ml
10) N-TETRACOSANE	15.209	14060252	97.641 ug/ml
11) N-HEXACOSANE	16.228	13967032	97.601 ug/ml
12) N-OCTACOSANE	17.177	13714393	97.282 ug/ml
13) N-TRIACONTANE	18.063	13703234	96.955 ug/ml
14) N-DOTRIACONTANE	18.895	13274210	96.422 ug/ml
15) N-TETRATRIACONTANE	19.677	12732685	96.508 ug/ml
16) N-HEXATRIACONTANE	20.415	11728155	92.256 ug/ml
17) N-OCTATRIACONTANE	21.148	10778979	96.559 ug/ml
18) N-TETRACONTANE	22.054	9894843	96.655 ug/ml

(f)=RT Delta > 1/2 Window

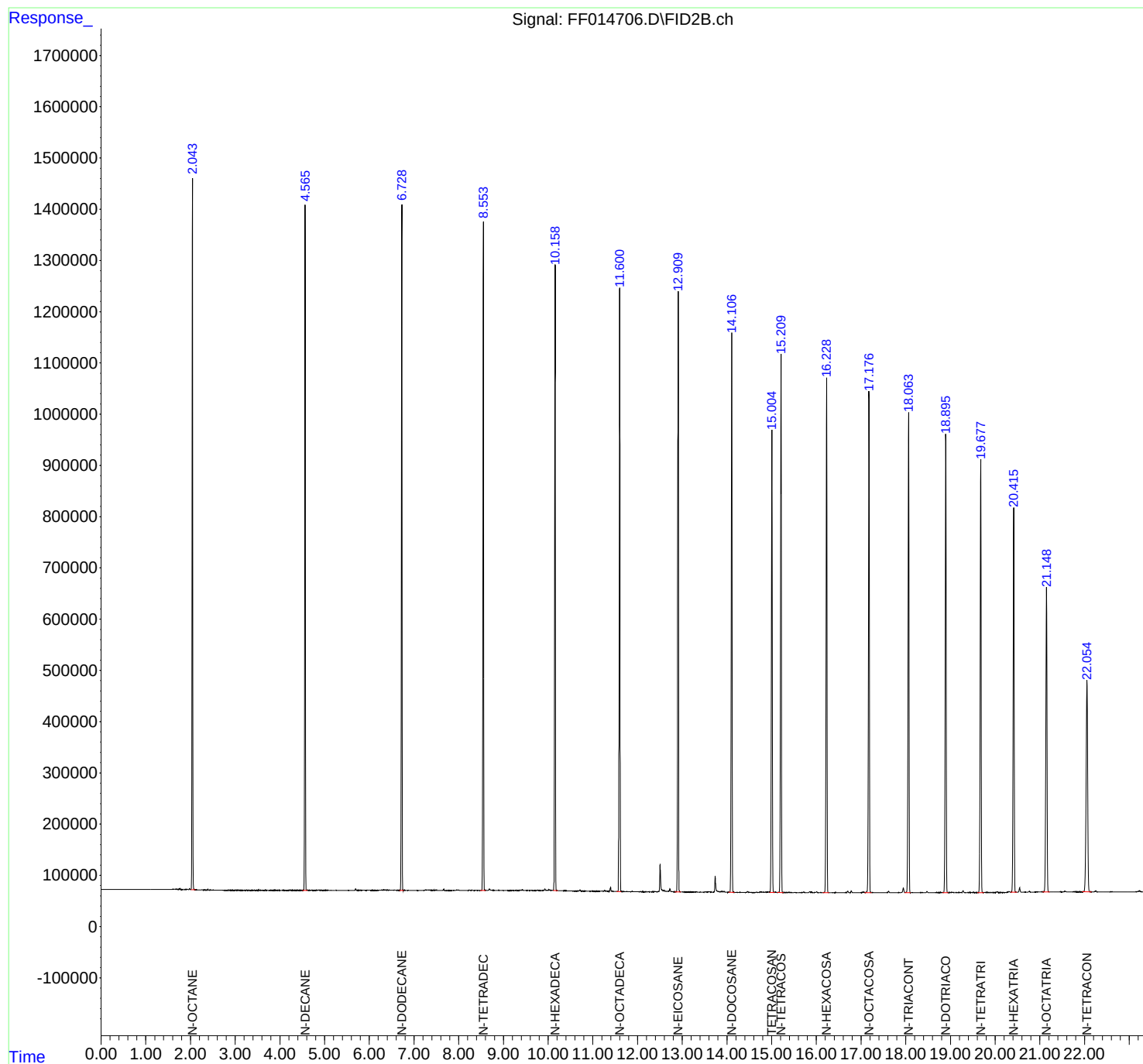
(m)=manual int.

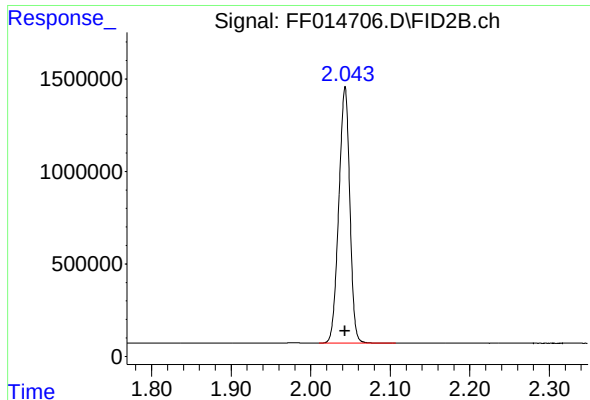
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014706.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:19
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:33:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:33:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

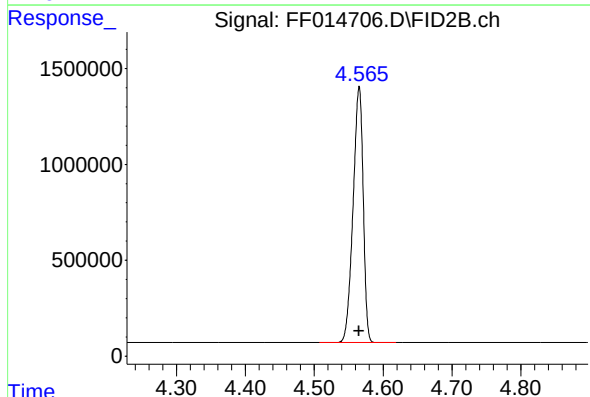




#1 N-OCTANE

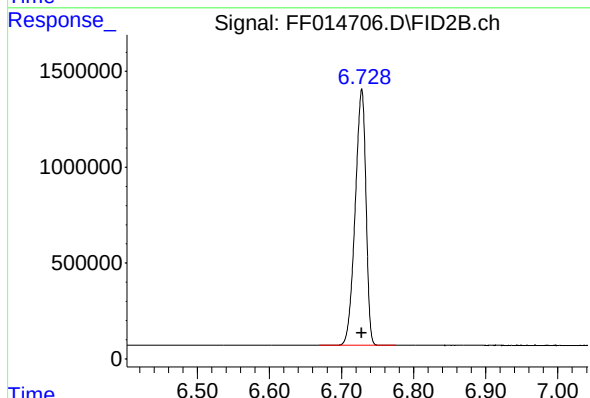
R.T.: 2.043 min
Delta R.T.: 0.000 min
Response: 13303881
Conc: 97.46 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



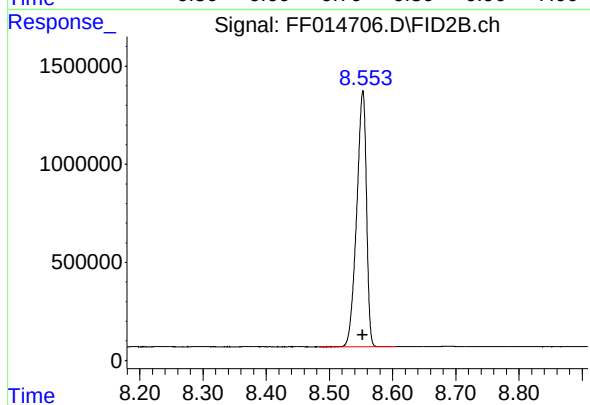
#2 N-DECANE

R.T.: 4.565 min
Delta R.T.: 0.000 min
Response: 13643519
Conc: 97.48 ug/ml



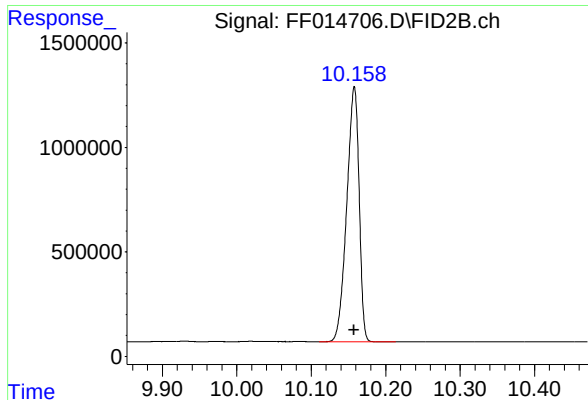
#3 N-DODECANE

R.T.: 6.728 min
Delta R.T.: 0.000 min
Response: 13881024
Conc: 97.61 ug/ml



#4 N-TETRADECANE

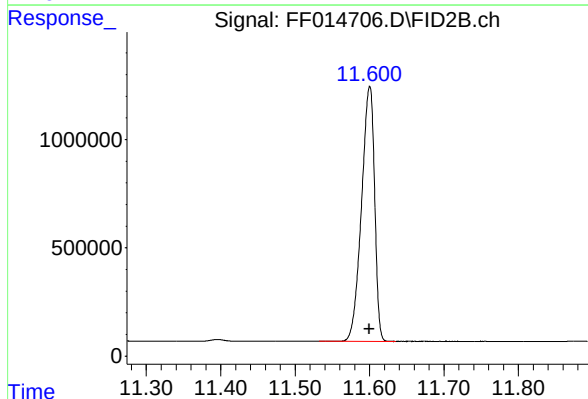
R.T.: 8.553 min
Delta R.T.: 0.000 min
Response: 14019933
Conc: 97.65 ug/ml



#5 N-HEXADECANE

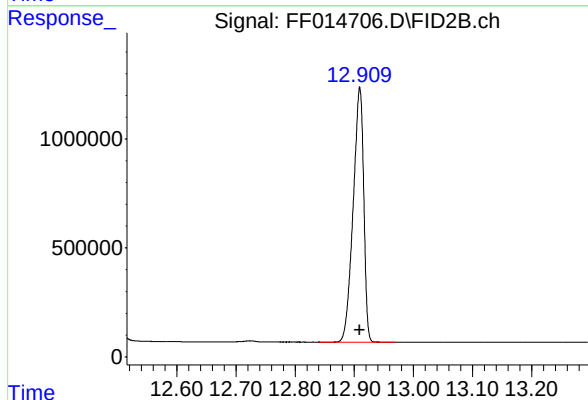
R.T.: 10.158 min
Delta R.T.: 0.000 min
Response: 14084820
Conc: 97.69 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



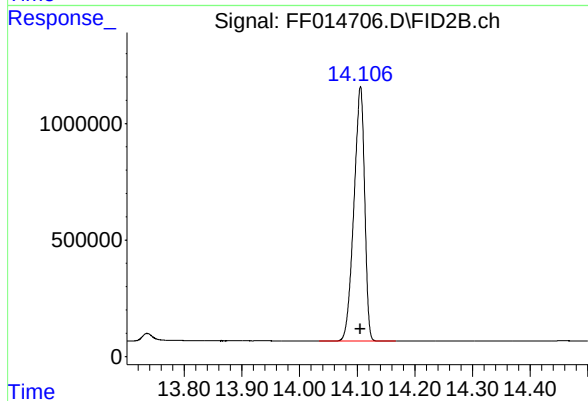
#6 N-OCTADECANE

R.T.: 11.600 min
Delta R.T.: 0.000 min
Response: 14358713
Conc: 97.58 ug/ml



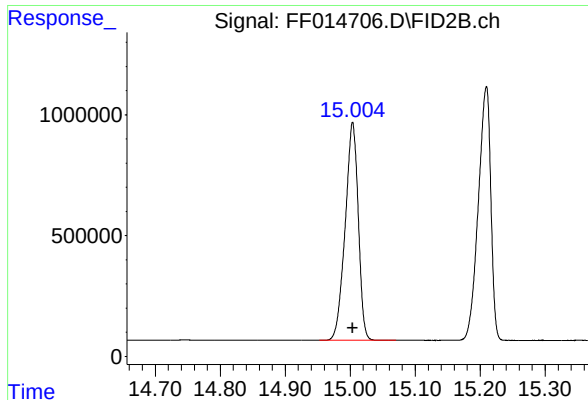
#7 N-EICOSANE

R.T.: 12.909 min
Delta R.T.: 0.000 min
Response: 14522471
Conc: 97.55 ug/ml



#8 N-DOCOSANE

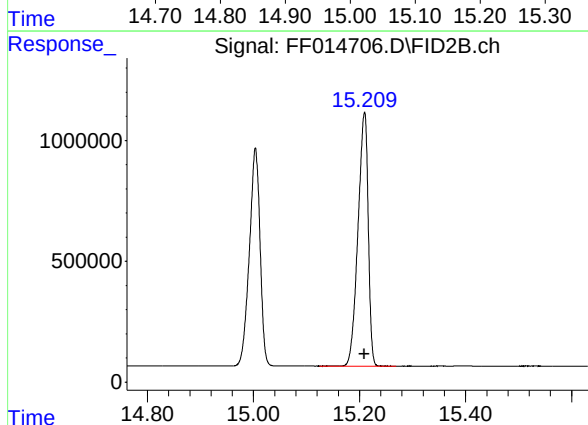
R.T.: 14.105 min
Delta R.T.: 0.000 min
Response: 14098837
Conc: 97.67 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

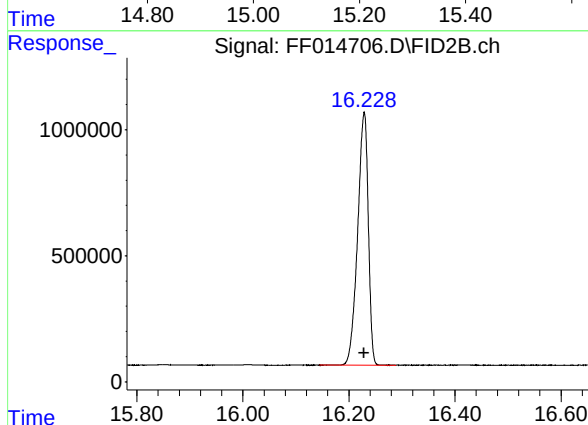
R.T.: 15.004 min
Delta R.T.: 0.000 min
Response: 12616850
Conc: 97.69 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



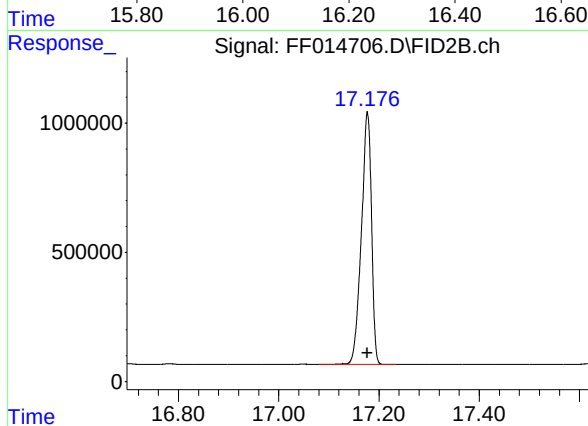
#10 N-TETRACOSANE

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 14060252
Conc: 97.64 ug/ml



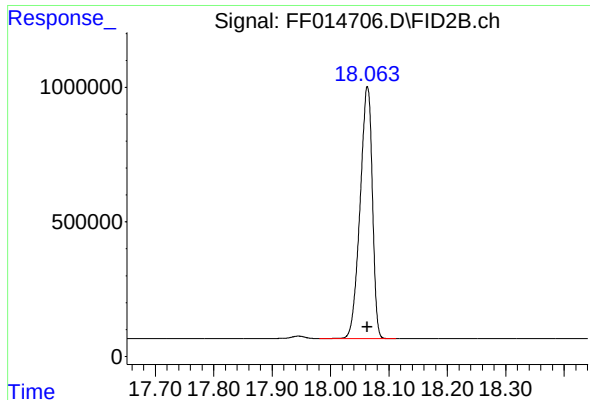
#11 N-HEXACOSANE

R.T.: 16.228 min
Delta R.T.: 0.000 min
Response: 13967032
Conc: 97.60 ug/ml



#12 N-OCTACOSANE

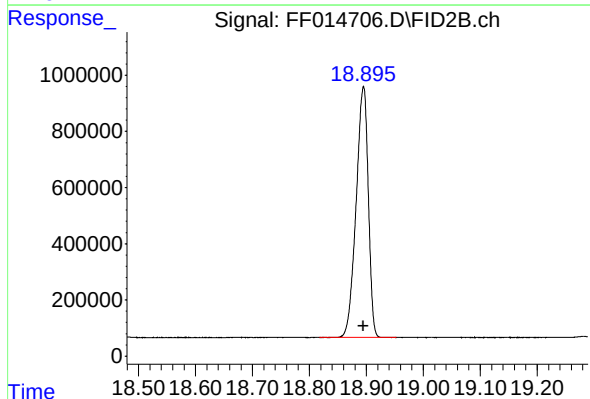
R.T.: 17.177 min
Delta R.T.: 0.000 min
Response: 13714393
Conc: 97.28 ug/ml



#13 N-TRIACONTANE

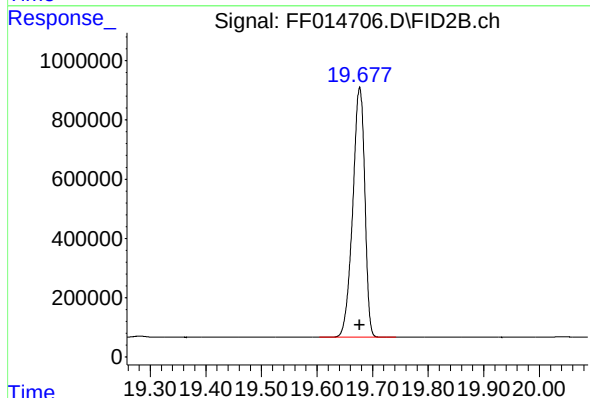
R.T.: 18.063 min
Delta R.T.: 0.000 min
Response: 13703234
Conc: 96.96 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



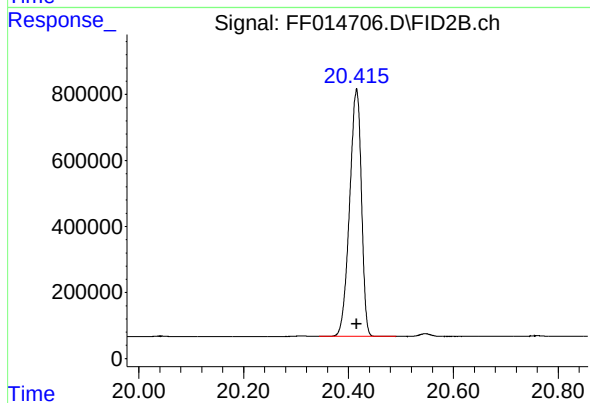
#14 N-DOTRIACONTANE

R.T.: 18.895 min
Delta R.T.: 0.000 min
Response: 13274210
Conc: 96.42 ug/ml



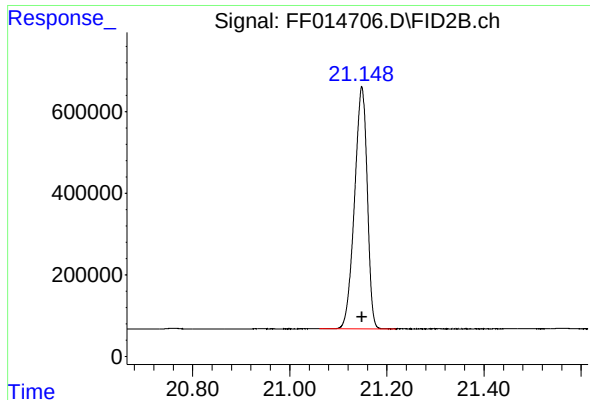
#15 N-TETRATRIACONTANE

R.T.: 19.677 min
Delta R.T.: 0.000 min
Response: 12732685
Conc: 96.51 ug/ml



#16 N-HEXATRIACONTANE

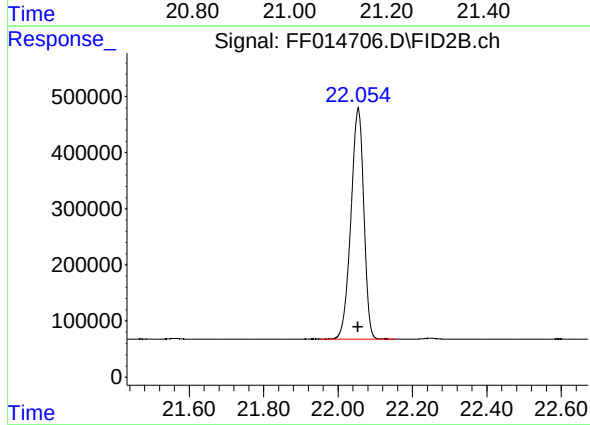
R.T.: 20.415 min
Delta R.T.: 0.000 min
Response: 11728155
Conc: 92.26 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.148 min
Delta R.T.: 0.000 min
Response: 10778979
Conc: 96.56 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.054 min
Delta R.T.: 0.000 min
Response: 9894843
Conc: 96.66 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014706.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:19
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.043	2.010	2.107	BB	1395961	13303881	91.61%	5.581%
2	4.565	4.507	4.619	BB	1341281	13643519	93.95%	5.723%
3	6.728	6.669	6.775	BB	1330027	13881024	95.58%	5.823%
4	8.553	8.484	8.605	BB	1298555	14019933	96.54%	5.881%
5	10.158	10.110	10.214	BB	1220871	14084820	96.99%	5.908%
6	11.600	11.532	11.635	BB	1181144	14358713	98.87%	6.023%
7	12.909	12.840	12.970	BB	1171768	14522471	100.00%	6.092%
8	14.105	14.034	14.167	BB	1091851	14098837	97.08%	5.914%
9	15.004	14.952	15.070	PV	902788	12616850	86.88%	5.293%
10	15.209	15.124	15.269	BB	1048448	14060252	96.82%	5.898%
11	16.228	16.144	16.289	BB	1005857	13967032	96.18%	5.859%
12	17.177	17.080	17.234	BB	974907	13714393	94.44%	5.753%
13	18.063	17.980	18.112	VB	936741	13703234	94.36%	5.748%
14	18.895	18.817	18.952	BB	896329	13274210	91.40%	5.568%
15	19.677	19.604	19.742	BB	845219	12732685	87.68%	5.341%
16	20.415	20.344	20.490	BB	749880	11728155	80.76%	4.920%
17	21.148	21.060	21.219	BB	593991	10778979	74.22%	4.522%
18	22.054	21.949	22.155	BB	412482	9894843	68.13%	4.151%
Sum of corrected areas:						238383831		

FF102124.M Tue Oct 22 01:22:37 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
 Data File : FF014707.D
 Signal(s) : FID2B.ch
 Acq On : 21 Oct 2024 15:48
 Operator : YP\AJ
 Sample : 50 TRPH STD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_F

ClientSampleId :

50 TRPH STD

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/22/2024

Supervised By :Ankita Jodhani 10/22/2024

Integration File: autoint1.e
 Quant Time: Oct 21 16:23:05 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
 Quant Title :
 QLast Update : Mon Oct 21 16:22:11 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.999	6372635	50.000 ug/ml
Target Compounds			
1) N-OCTANE	2.043	6799200	50.000 ug/ml
2) N-DECANE	4.562	6973777	50.000 ug/ml
3) N-DODECANE	6.725	7075054	50.000 ug/ml
4) N-TETRADECANE	8.548	7134727	50.000 ug/ml
5) N-HEXADECANE	10.154	7147932	50.000 ug/ml
6) N-OCTADECANE	11.596	7284916	50.000 ug/ml
7) N-EICOSANE	12.904	7361127	50.000 ug/ml
8) N-DOCOSANE	14.101	7131319	50.000 ug/ml
10) N-TETRACOSANE	15.203	7111018	50.000 ug/ml
11) N-HEXACOSANE	16.223	7063296	50.000 ug/ml
12) N-OCTACOSANE	17.172	6969659	50.000 ug/ml
13) N-TRIACONTANE	18.060	6976894	50.000 ug/ml
14) N-DOTRIACONTANE	18.891	6816042	50.000 ug/ml
15) N-TETRATRIACONTANE	19.673	6534302	50.000 ug/ml
16) N-HEXATRIACONTANE	20.412	6429445	50.000 ug/ml
17) N-OCTATRIACONTANE	21.144	5561666	50.000 ug/ml
18) N-TETRACONTANE	22.050	5164176	50.000 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014707.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:48
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_F

Client Sample Id :

50 TRPH STD

Manual Integrations

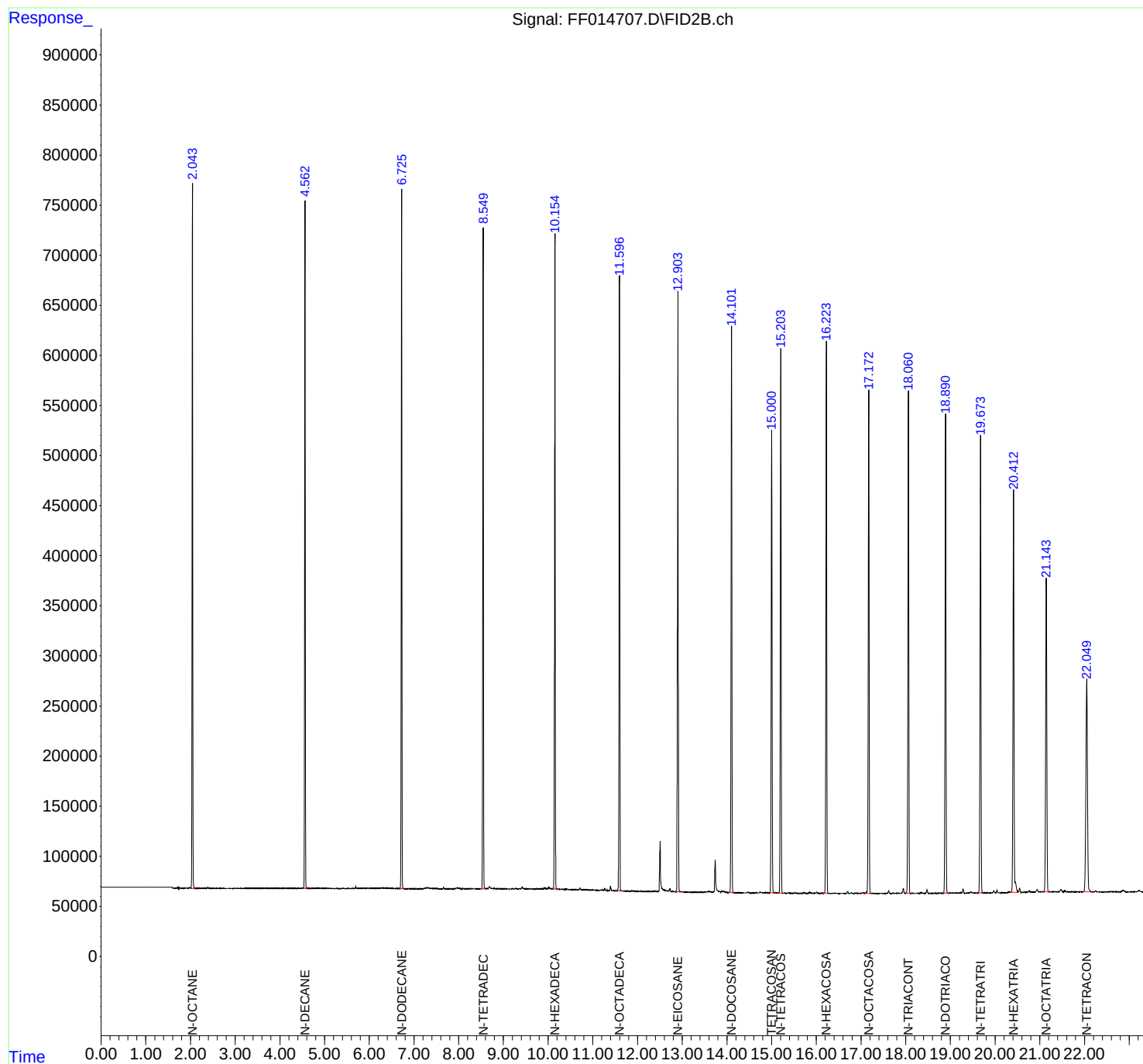
APPROVED

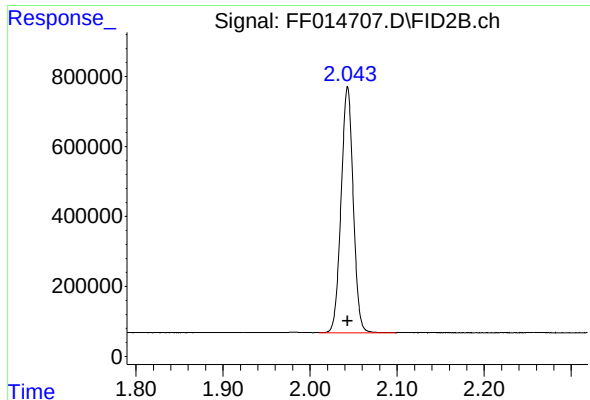
Reviewed By :Yogesh Patel 10/22/2024

Supervised By :Ankita Jodhani 10/22/2024

Integration File: autoint1.e
Quant Time: Oct 21 16:23:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:22:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





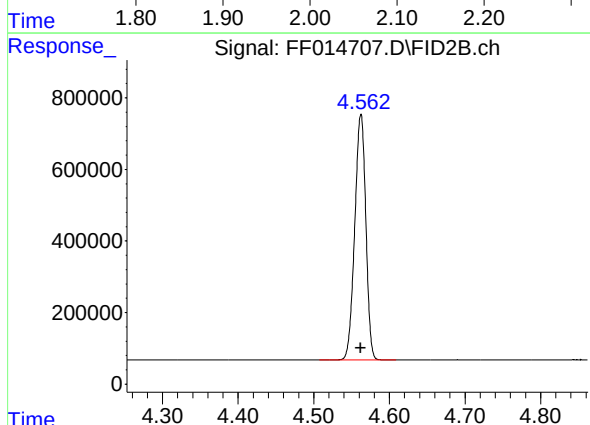
#1 N-OCTANE

R.T.: 2.043 min
Delta R.T.: 0.000 min
Response: 6799200
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

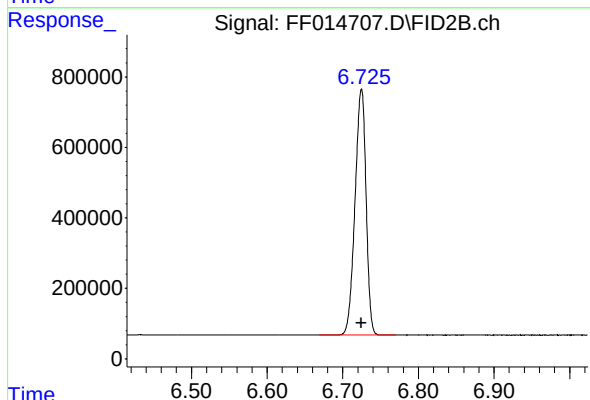
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



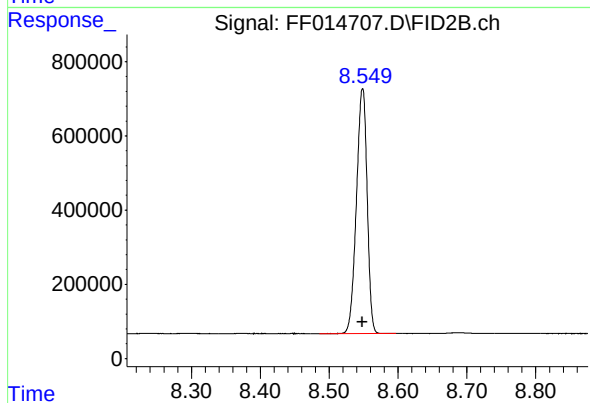
#2 N-DECANE

R.T.: 4.562 min
Delta R.T.: 0.000 min
Response: 6973777
Conc: 50.00 ug/ml



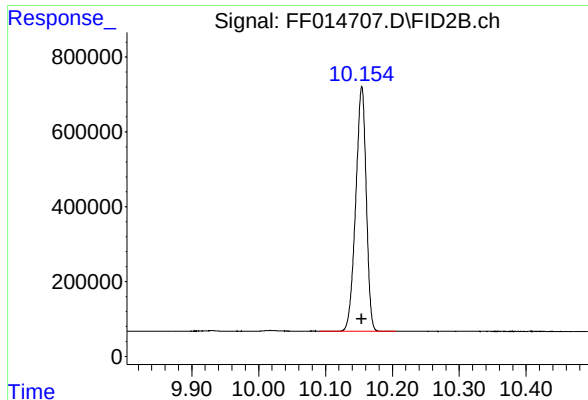
#3 N-DODECANE

R.T.: 6.725 min
Delta R.T.: 0.000 min
Response: 7075054
Conc: 50.00 ug/ml



#4 N-TETRADECANE

R.T.: 8.548 min
Delta R.T.: 0.000 min
Response: 7134727
Conc: 50.00 ug/ml



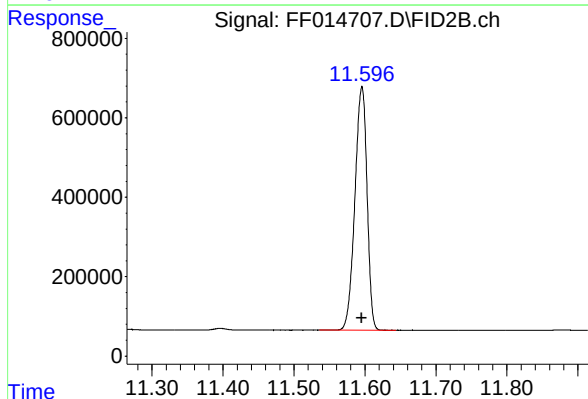
#5 N-HEXADECANE

R.T.: 10.154 min
Delta R.T.: 0.000 min
Response: 7147932
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

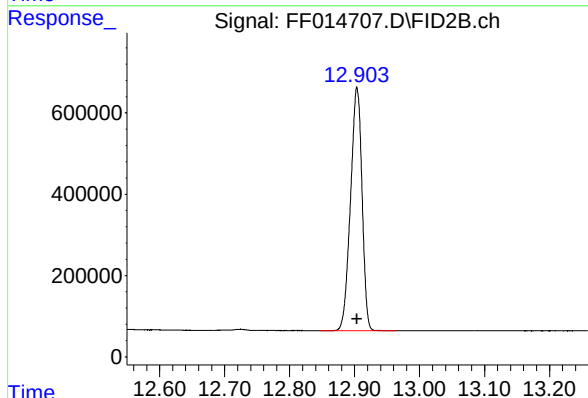
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



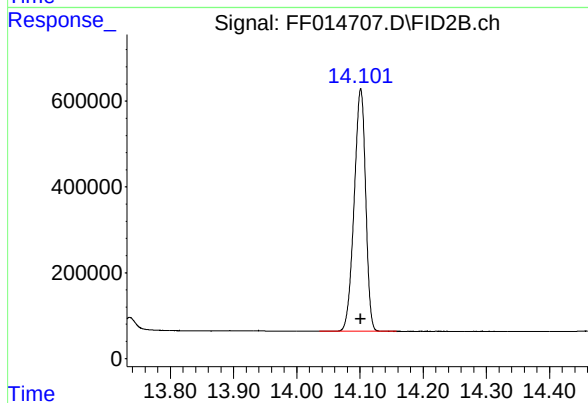
#6 N-OCTADECANE

R.T.: 11.596 min
Delta R.T.: 0.000 min
Response: 7284916
Conc: 50.00 ug/ml



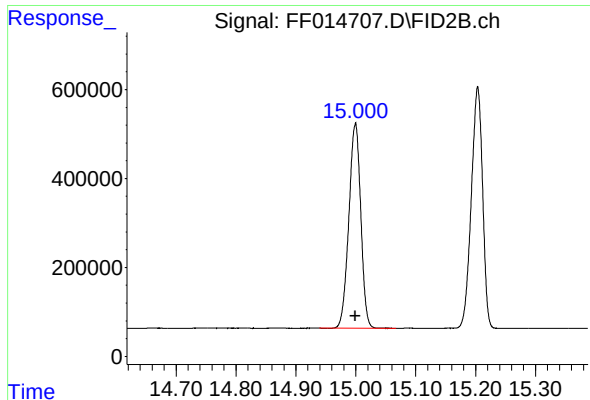
#7 N-EICOSANE

R.T.: 12.904 min
Delta R.T.: 0.000 min
Response: 7361127
Conc: 50.00 ug/ml



#8 N-DOCOSANE

R.T.: 14.101 min
Delta R.T.: 0.000 min
Response: 7131319
Conc: 50.00 ug/ml



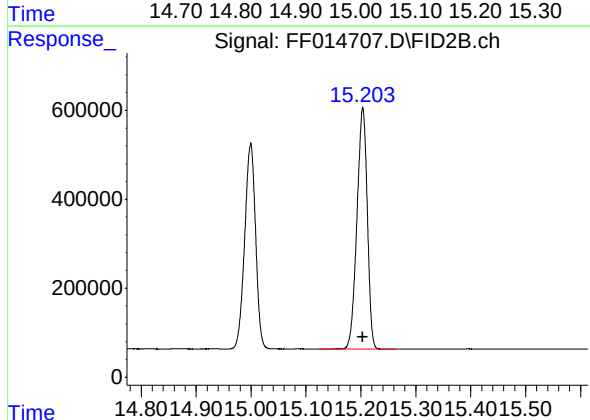
#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.999 min
Delta R.T.: 0.000 min
Response: 6372635
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

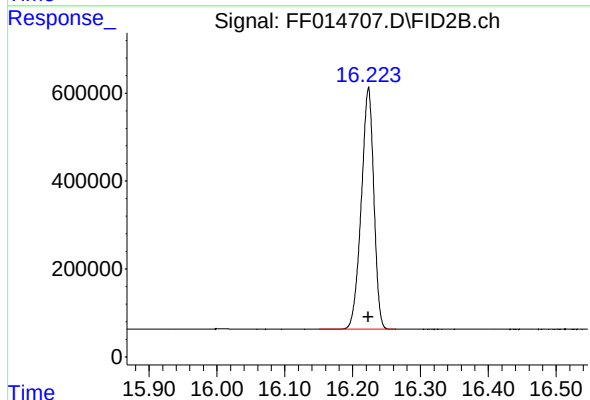
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



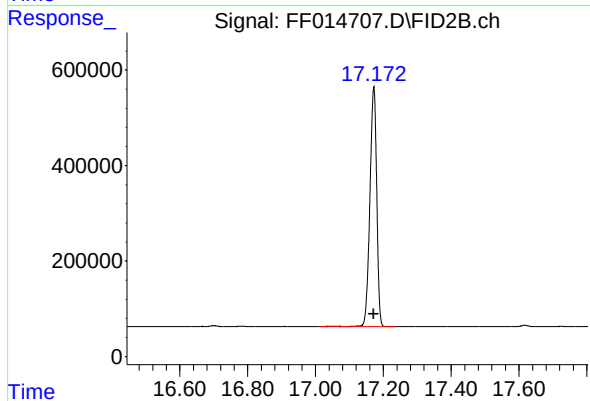
#10 N-TETRACOSANE

R.T.: 15.203 min
Delta R.T.: 0.000 min
Response: 7111018
Conc: 50.00 ug/ml



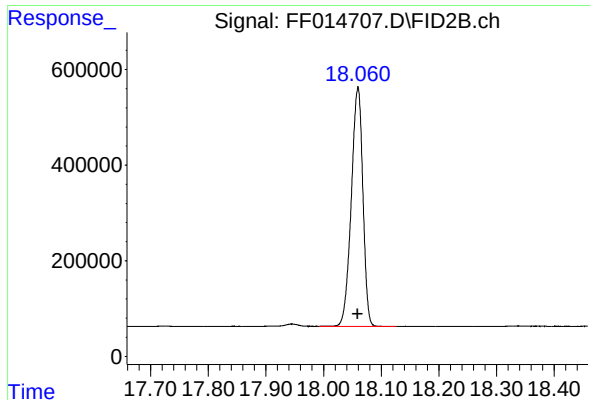
#11 N-HEXACOSANE

R.T.: 16.223 min
Delta R.T.: 0.000 min
Response: 7063296
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

R.T.: 17.172 min
Delta R.T.: 0.000 min
Response: 6969659
Conc: 50.00 ug/ml



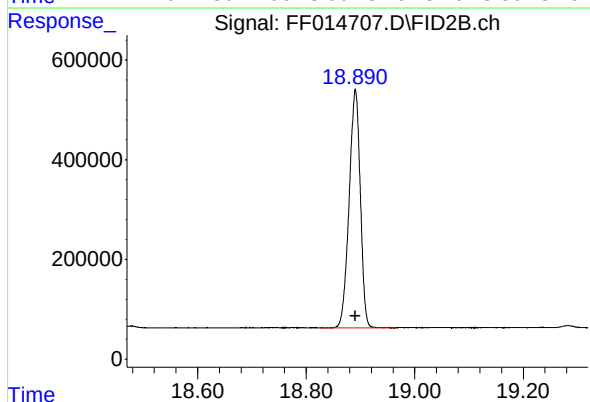
#13 N-TRIACONTANE

R.T.: 18.060 min
Delta R.T.: 0.000 min
Response: 6976894
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

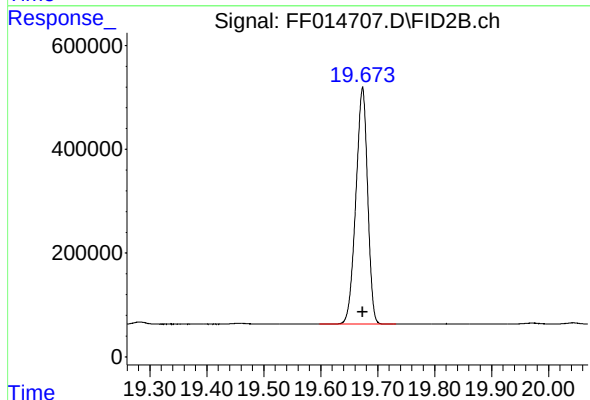
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



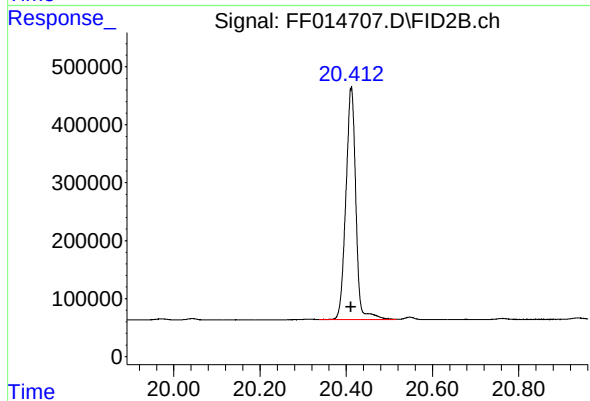
#14 N-DOTRIACONTANE

R.T.: 18.891 min
Delta R.T.: 0.000 min
Response: 6816042
Conc: 50.00 ug/ml



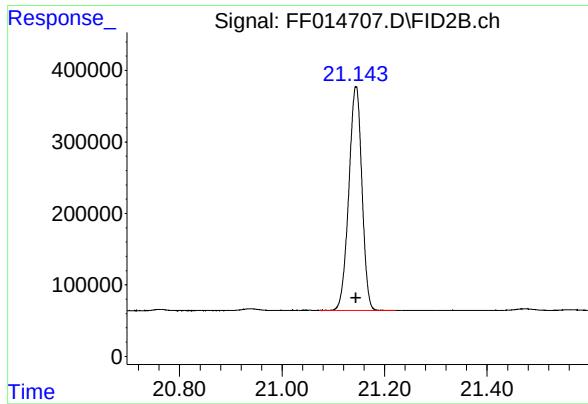
#15 N-TETRATRIACONTANE

R.T.: 19.673 min
Delta R.T.: 0.000 min
Response: 6534302
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

R.T.: 20.412 min
Delta R.T.: 0.000 min
Response: 6429445
Conc: 50.00 ug/ml



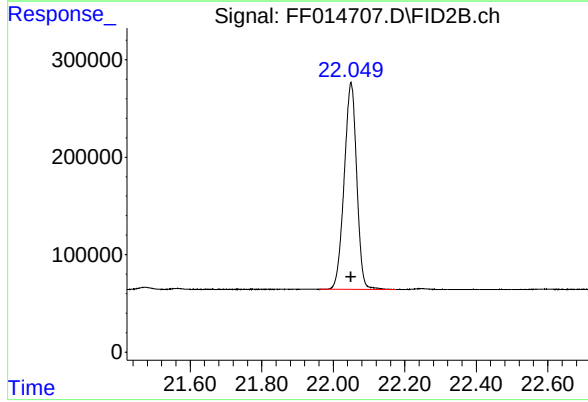
#17 N-OCTATRIACONTANE

R.T.: 21.144 min
Delta R.T.: 0.000 min
Response: 5561666
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



#18 N-TETRACONTANE

R.T.: 22.050 min
Delta R.T.: 0.000 min
Response: 5164176
Conc: 50.00 ug/ml

rteres

Instrument :
FID_F
LabSampleId :
50 TRPH STD
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124.M
Data File : FF014707.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:48
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.043	2.010	2.099	BB	704590	6799200	92.37%	5.577%
2	4.562	4.507	4.609	BB	686087	6973777	94.74%	5.721%
3	6.725	6.669	6.770	BB	696934	7075054	96.11%	5.804%
4	8.548	8.485	8.597	BB	661699	7134727	96.92%	5.853%
5	10.154	10.090	10.205	BB	653362	7147932	97.10%	5.863%
6	11.596	11.535	11.644	BB	613094	7284916	98.96%	5.976%
7	12.904	12.845	12.964	BB	598410	7361127	100.00%	6.038%
8	14.101	14.035	14.157	BB	564415	7131319	96.88%	5.850%
9	14.999	14.939	15.067	BV	458792	6372635	86.57%	5.227%
10	15.203	15.124	15.264	BB	544080	7111018	96.60%	5.833%
11	16.223	16.150	16.264	BB	552356	7063296	95.95%	5.794%
12	17.172	17.010	17.237	BB	502501	6969659	94.68%	5.717%
13	18.060	17.992	18.125	BB	497945	6976894	94.78%	5.723%
14	18.891	18.824	18.965	BB	478178	6816042	92.60%	5.591%
15	19.673	19.597	19.732	BB	457889	6534302	88.77%	5.360%
16	20.412	20.337	20.515	BV	399700	6429445	87.34%	5.274%
17	21.144	21.072	21.222	BB	313305	5561666	75.55%	4.562%
18	22.050	21.960	22.175	BB	212102	5164176	70.15%	4.236%
Sum of corrected areas:						121907185		

FF102124.M Tue Oct 22 01:23:05 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
 Data File : FF014708.D
 Signal(s) : FID2B.ch
 Acq On : 21 Oct 2024 16:17
 Operator : YP\AJ
 Sample : 20 TRPH STD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 TRPH STD

Integration File: autoint1.e
 Quant Time: Oct 21 16:31:35 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
 Quant Title :
 QLast Update : Mon Oct 21 16:31:21 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.998	2677025	20.490 ug/ml
Target Compounds			
1) N-OCTANE	2.044	2810200	20.327 ug/ml
2) N-DECANE	4.561	2879556	20.318 ug/ml
3) N-DODECANE	6.722	2926652	20.336 ug/ml
4) N-TETRADECANE	8.546	2956910	20.355 ug/ml
5) N-HEXADECANE	10.152	2974744	20.396 ug/ml
6) N-OCTADECANE	11.593	3043101	20.434 ug/ml
7) N-EICOSANE	12.902	3083135	20.460 ug/ml
8) N-DOCOSANE	14.099	2988496	20.466 ug/ml
10) N-TETRACOSANE	15.202	2983551	20.478 ug/ml
11) N-HEXACOSANE	16.221	2967515	20.491 ug/ml
12) N-OCTACOSANE	17.170	2927837	20.490 ug/ml
13) N-TRIACONTANE	18.057	2948736	20.550 ug/ml
14) N-DOTRIACONTANE	18.889	2878855	20.544 ug/ml
15) N-TETRATRIACONTANE	19.671	2755751	20.529 ug/ml
16) N-HEXATRIACONTANE	20.410	2710131	20.524 ug/ml
17) N-OCTATRIACONTANE	21.142	2317374	20.408 ug/ml
18) N-TETRACONTANE	22.047	2097723	20.154 ug/ml

(f)=RT Delta > 1/2 Window

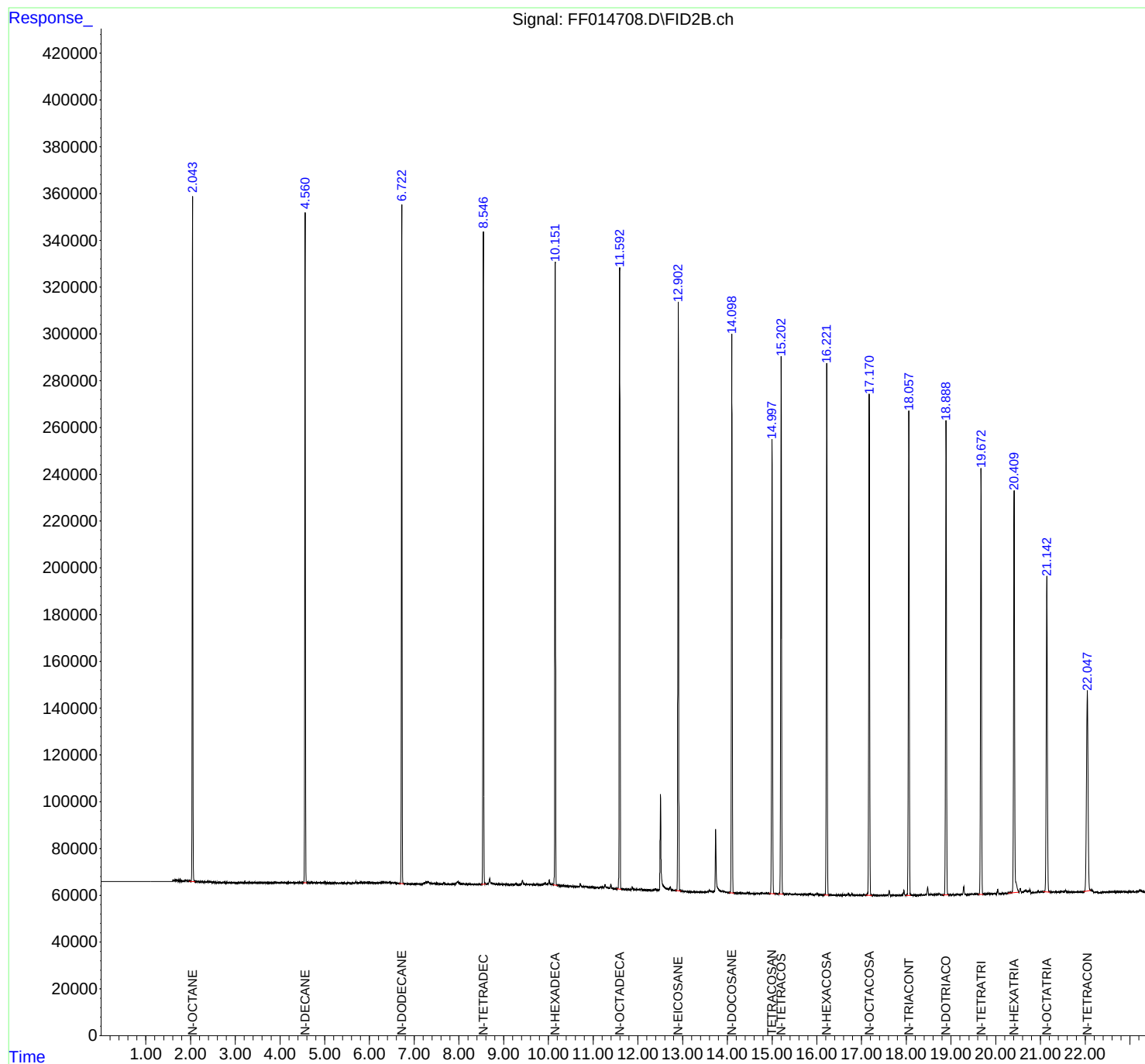
(m)=manual int.

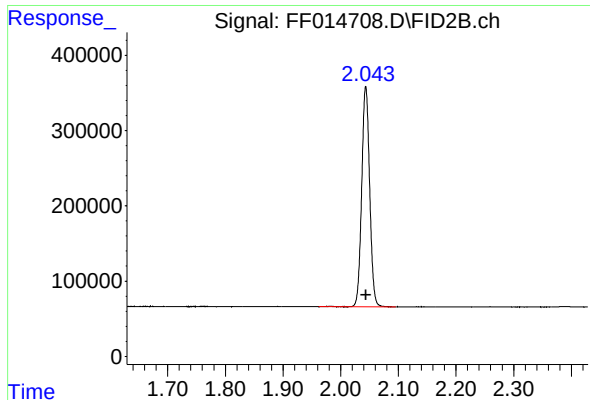
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014708.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:17
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:31:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

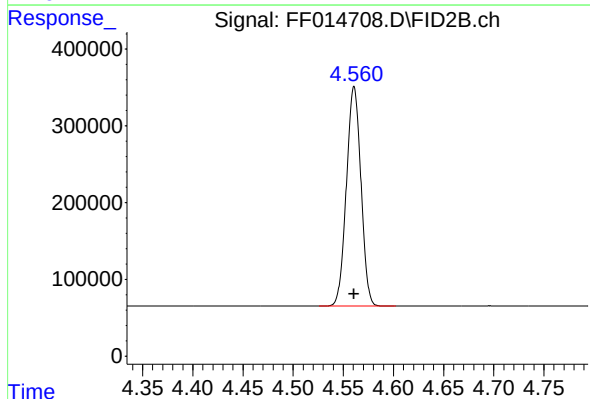




#1 N-OCTANE

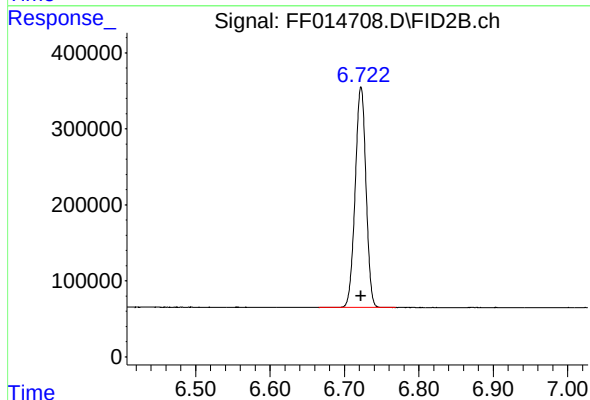
R.T.: 2.044 min
Delta R.T.: 0.000 min
Response: 2810200
Conc: 20.33 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



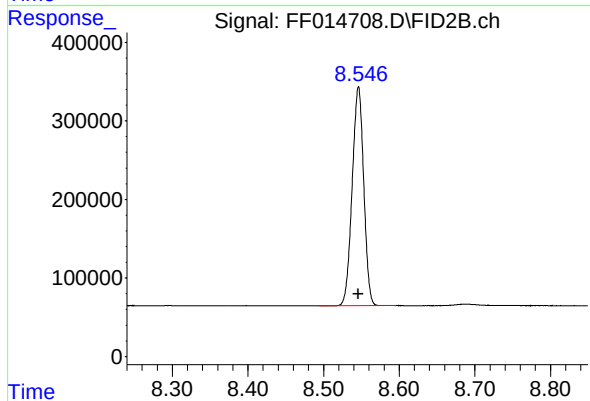
#2 N-DECANE

R.T.: 4.561 min
Delta R.T.: 0.000 min
Response: 2879556
Conc: 20.32 ug/ml



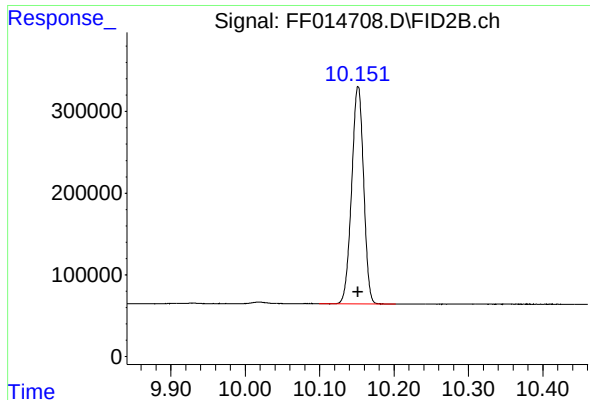
#3 N-DODECANE

R.T.: 6.722 min
Delta R.T.: 0.000 min
Response: 2926652
Conc: 20.34 ug/ml



#4 N-TETRADECANE

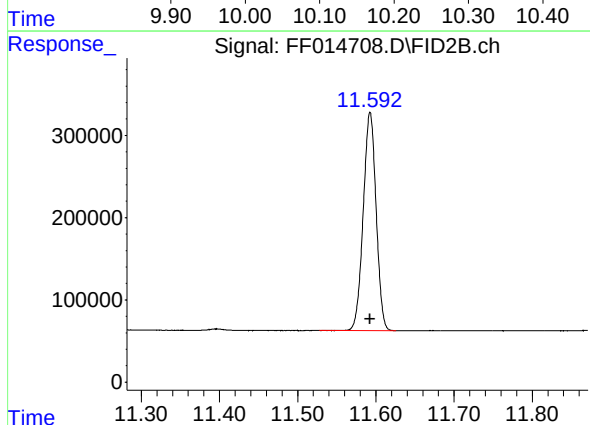
R.T.: 8.546 min
Delta R.T.: 0.000 min
Response: 2956910
Conc: 20.35 ug/ml



#5 N-HEXADECANE

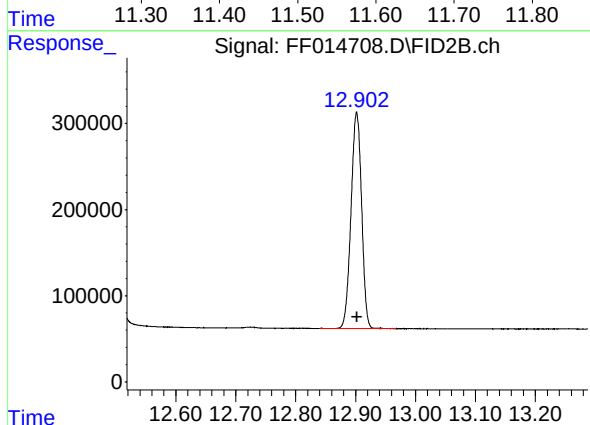
R.T.: 10.152 min
Delta R.T.: 0.000 min
Response: 2974744
Conc: 20.40 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



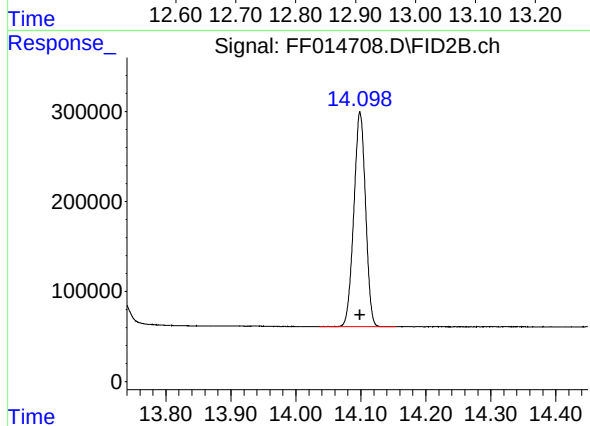
#6 N-OCTADECANE

R.T.: 11.593 min
Delta R.T.: 0.000 min
Response: 3043101
Conc: 20.43 ug/ml



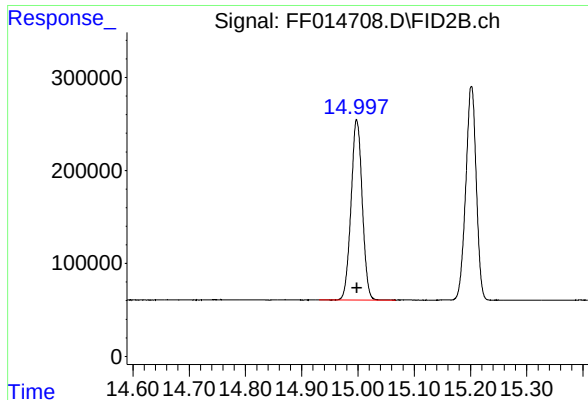
#7 N-EICOSANE

R.T.: 12.902 min
Delta R.T.: 0.000 min
Response: 3083135
Conc: 20.46 ug/ml



#8 N-DOCOSANE

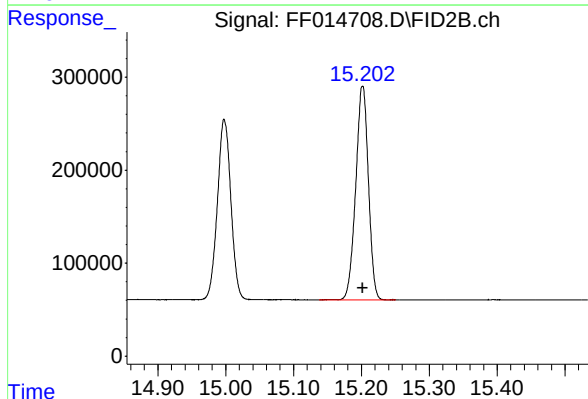
R.T.: 14.099 min
Delta R.T.: 0.000 min
Response: 2988496
Conc: 20.47 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

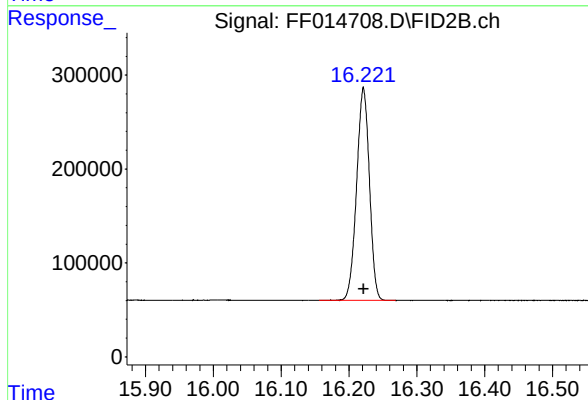
R.T.: 14.998 min
Delta R.T.: 0.000 min
Response: 2677025
Conc: 20.49 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



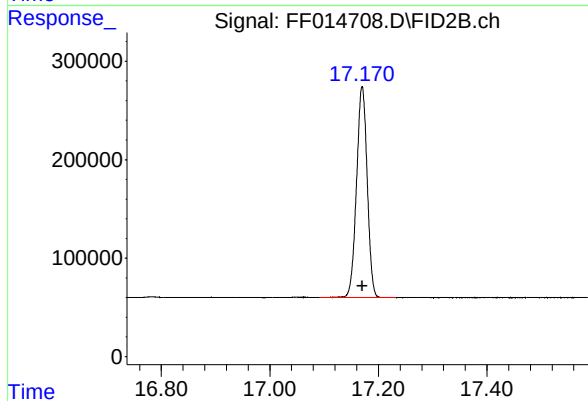
#10 N-TETRACOSANE

R.T.: 15.202 min
Delta R.T.: 0.000 min
Response: 2983551
Conc: 20.48 ug/ml



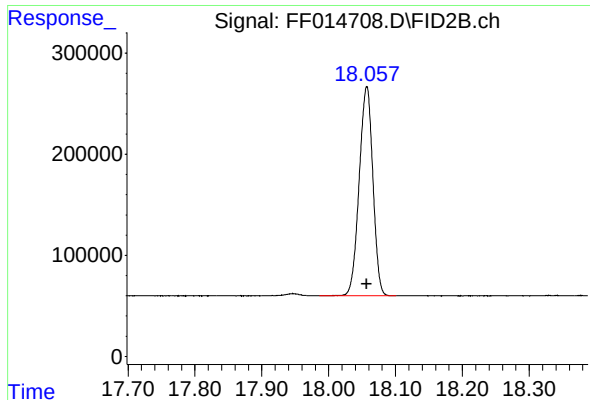
#11 N-HEXACOSANE

R.T.: 16.221 min
Delta R.T.: 0.000 min
Response: 2967515
Conc: 20.49 ug/ml



#12 N-OCTACOSANE

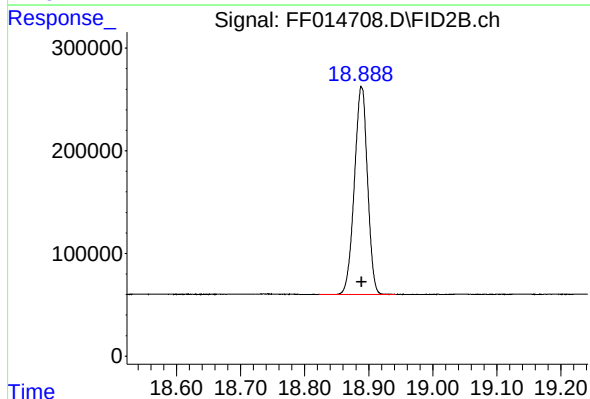
R.T.: 17.170 min
Delta R.T.: 0.000 min
Response: 2927837
Conc: 20.49 ug/ml



#13 N-TRIACONTANE

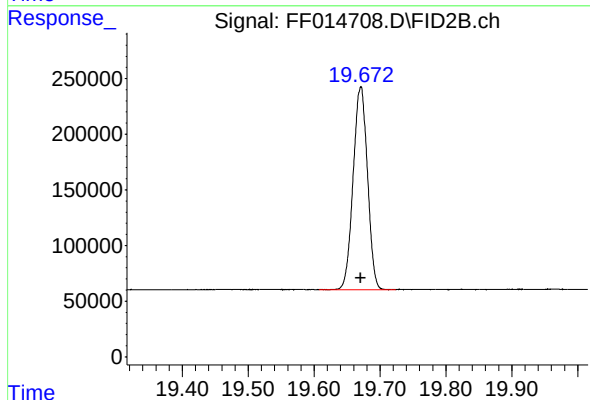
R.T.: 18.057 min
Delta R.T.: 0.000 min
Response: 2948736
Conc: 20.55 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



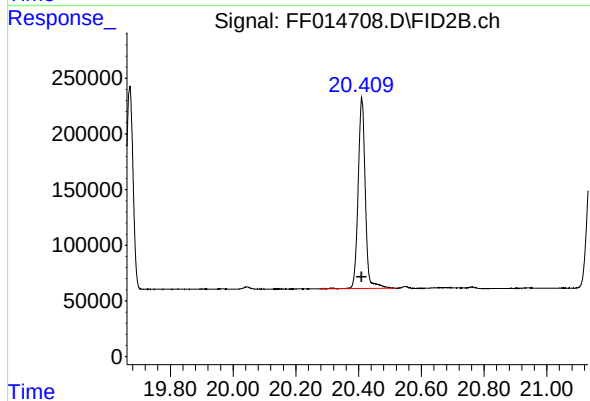
#14 N-DOTRIACONTANE

R.T.: 18.889 min
Delta R.T.: 0.000 min
Response: 2878855
Conc: 20.54 ug/ml



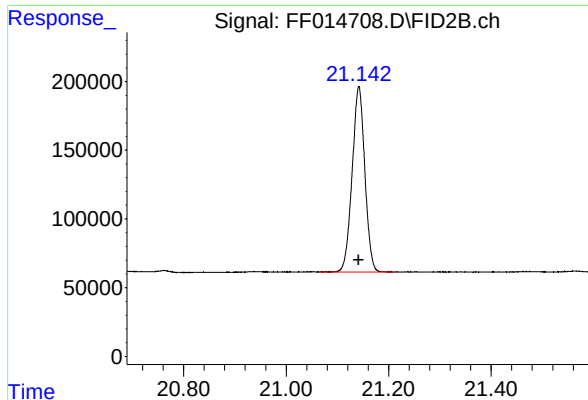
#15 N-TETRATRIACONTANE

R.T.: 19.671 min
Delta R.T.: 0.000 min
Response: 2755751
Conc: 20.53 ug/ml



#16 N-HEXATRIACONTANE

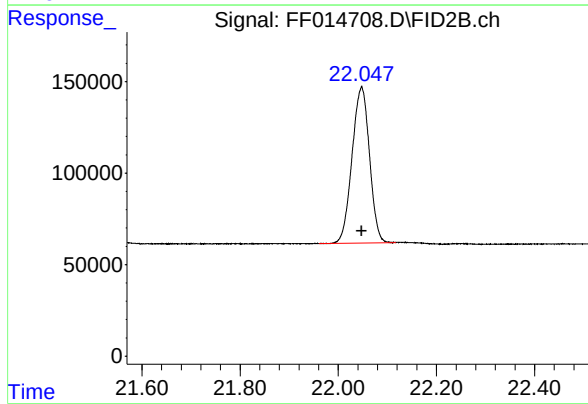
R.T.: 20.410 min
Delta R.T.: 0.000 min
Response: 2710131
Conc: 20.52 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min
Delta R.T.: 0.000 min
Response: 2317374
Conc: 20.41 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.047 min
Delta R.T.: 0.000 min
Response: 2097723
Conc: 20.15 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014708.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:17
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.044	1.962	2.096	BB	292677	2810200	91.15%	5.518%
2	4.561	4.526	4.602	BB	285811	2879556	93.40%	5.654%
3	6.722	6.666	6.769	BB	290445	2926652	94.92%	5.747%
4	8.546	8.494	8.596	BB	279038	2956910	95.91%	5.806%
5	10.152	10.099	10.202	BB	267113	2974744	96.48%	5.841%
6	11.593	11.527	11.626	BB	265920	3043101	98.70%	5.975%
7	12.902	12.839	12.967	BB	250833	3083135	100.00%	6.054%
8	14.099	14.036	14.154	BB	237819	2988496	96.93%	5.868%
9	14.998	14.931	15.067	BB	194003	2677025	86.83%	5.257%
10	15.202	15.137	15.251	BB	230517	2983551	96.77%	5.858%
11	16.221	16.156	16.269	BB	226569	2967515	96.25%	5.827%
12	17.170	17.091	17.232	BB	214635	2927837	94.96%	5.749%
13	18.057	17.986	18.101	BB	207388	2948736	95.64%	5.790%
14	18.889	18.822	18.942	BB	201787	2878855	93.37%	5.653%
15	19.671	19.607	19.724	BB	182282	2755751	89.38%	5.411%
16	20.410	20.274	20.519	BV	169042	2710131	87.90%	5.322%
17	21.142	21.064	21.214	BB	135315	2317374	75.16%	4.550%
18	22.047	21.961	22.117	BB	85564	2097723	68.04%	4.119%
Sum of corrected areas:							50927293	

FF102124.M Tue Oct 22 01:23:26 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
 Data File : FF014709.D
 Signal(s) : FID2B.ch
 Acq On : 21 Oct 2024 16:46
 Operator : YP\AJ
 Sample : 10 TRPH STD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 10 TRPH STD

Integration File: autoint1.e
 Quant Time: Oct 21 17:01:40 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:01:32 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.997	1322603	10.179 ug/ml
Target Compounds			
1) N-OCTANE	2.044	1391050	10.142 ug/ml
2) N-DECANE	4.561	1431638	10.171 ug/ml
3) N-DODECANE	6.721	1452786	10.161 ug/ml
4) N-TETRADECANE	8.545	1471114	10.183 ug/ml
5) N-HEXADECANE	10.151	1470544	10.149 ug/ml
6) N-OCTADECANE	11.592	1506346	10.177 ug/ml
7) N-EICOSANE	12.901	1518951	10.152 ug/ml
8) N-DOCOSANE	14.097	1479666	10.187 ug/ml
10) N-TETRACOSANE	15.200	1479406	10.204 ug/ml
11) N-HEXACOSANE	16.220	1470196	10.204 ug/ml
12) N-OCTACOSANE	17.169	1455486	10.241 ug/ml
13) N-TRIACONTANE	18.055	1481698	10.358 ug/ml
14) N-DOTRIACONTANE	18.887	1460398	10.449 ug/ml
15) N-TETRATRIACONTANE	19.670	1394669	10.422 ug/ml
16) N-HEXATRIACONTANE	20.409	1350478	10.460 ug/ml
17) N-OCTATRIACONTANE	21.142	1172155	10.371 ug/ml
18) N-TETRACONTANE	22.047	1062736	10.283 ug/ml

(f)=RT Delta > 1/2 Window

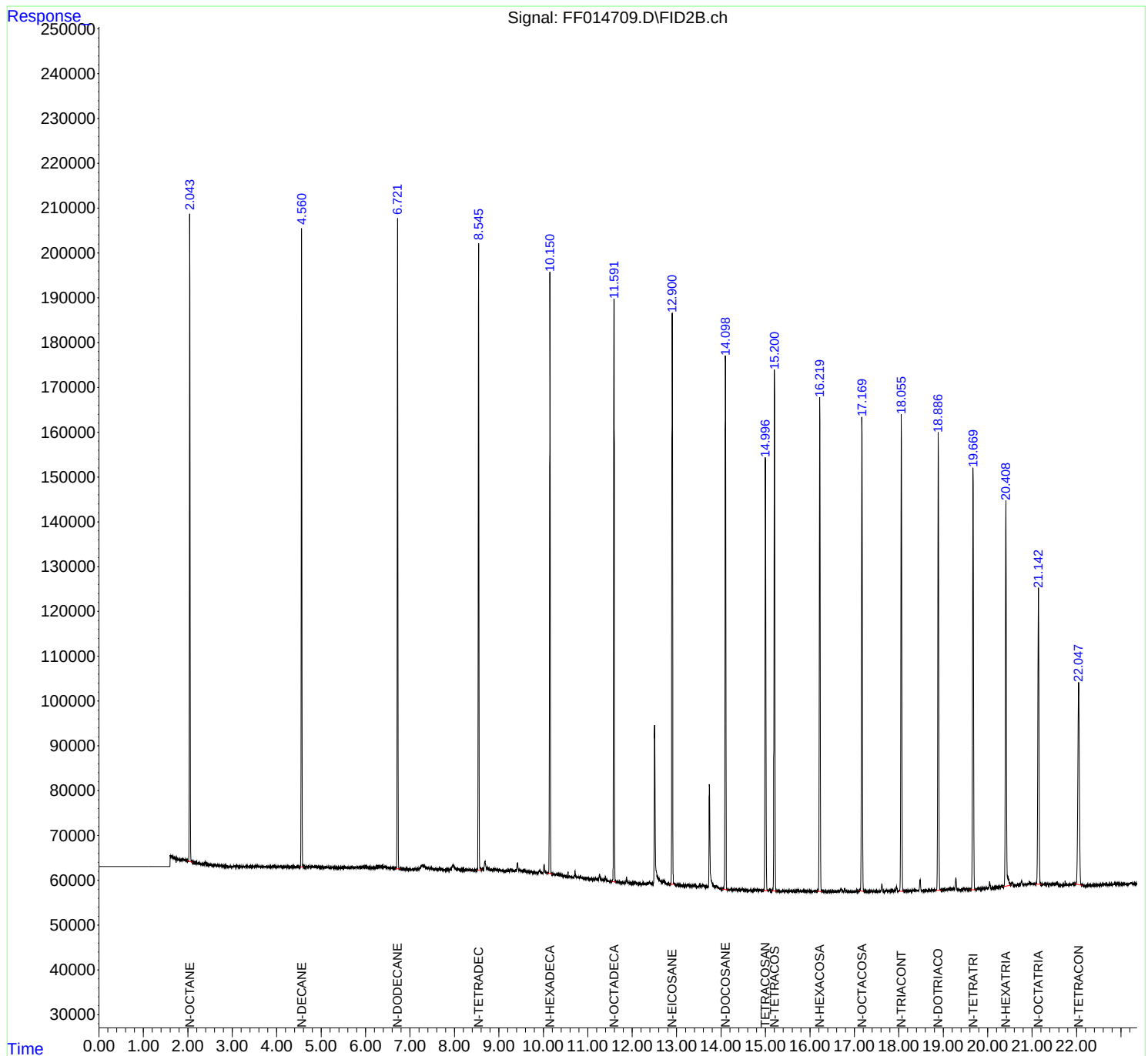
(m)=manual int.

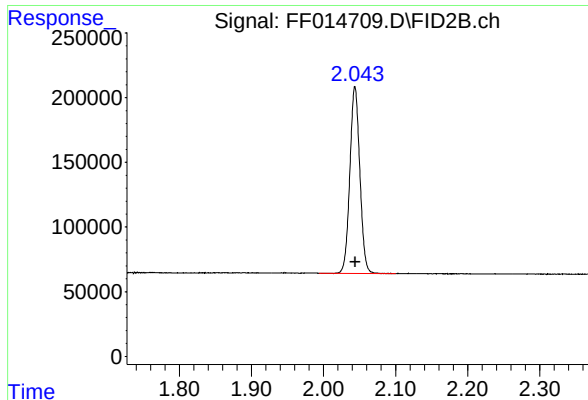
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014709.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:46
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 17:01:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 17:01:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

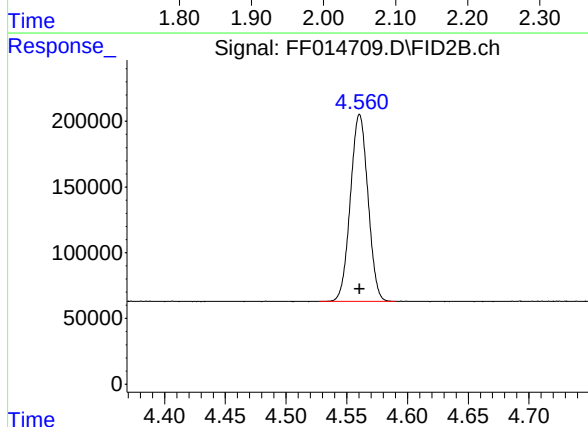




#1 N-OCTANE

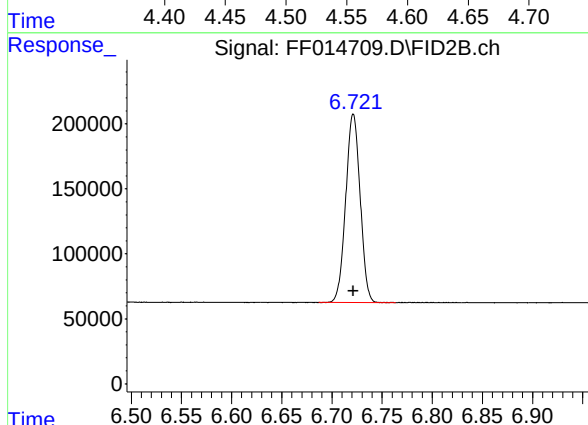
R.T.: 2.044 min
Delta R.T.: 0.000 min
Response: 1391050
Conc: 10.14 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



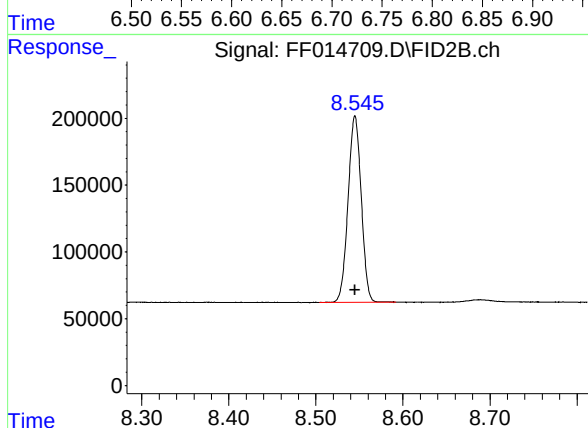
#2 N-DECANE

R.T.: 4.561 min
Delta R.T.: 0.000 min
Response: 1431638
Conc: 10.17 ug/ml



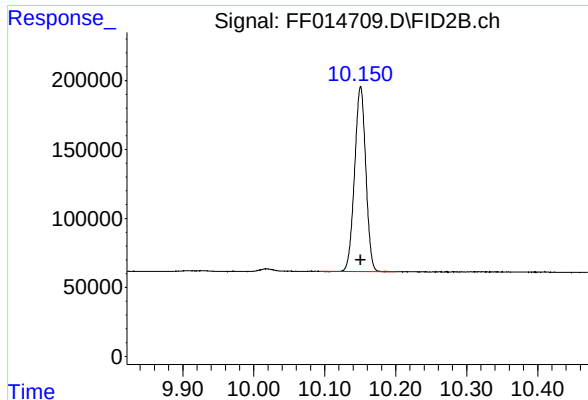
#3 N-DODECANE

R.T.: 6.721 min
Delta R.T.: 0.000 min
Response: 1452786
Conc: 10.16 ug/ml



#4 N-TETRADECANE

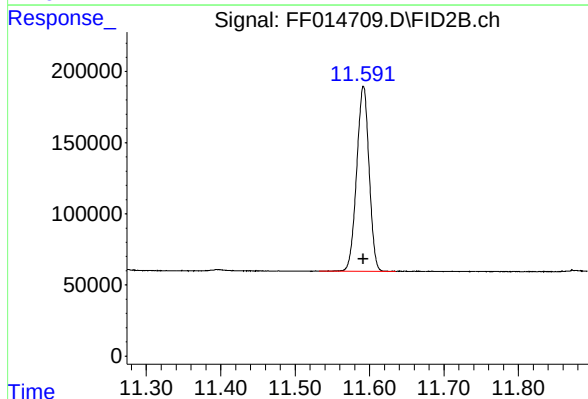
R.T.: 8.545 min
Delta R.T.: 0.000 min
Response: 1471114
Conc: 10.18 ug/ml



#5 N-HEXADECANE

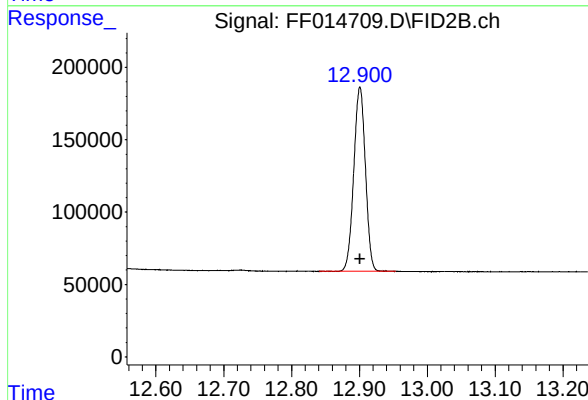
R.T.: 10.151 min
Delta R.T.: 0.000 min
Response: 1470544
Conc: 10.15 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



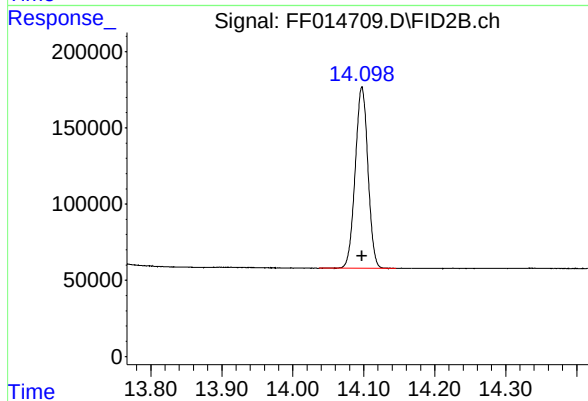
#6 N-OCTADECANE

R.T.: 11.592 min
Delta R.T.: 0.000 min
Response: 1506346
Conc: 10.18 ug/ml



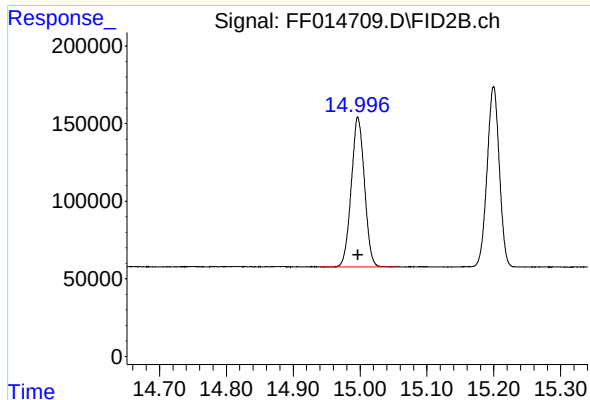
#7 N-EICOSANE

R.T.: 12.901 min
Delta R.T.: 0.000 min
Response: 1518951
Conc: 10.15 ug/ml



#8 N-DOCOSANE

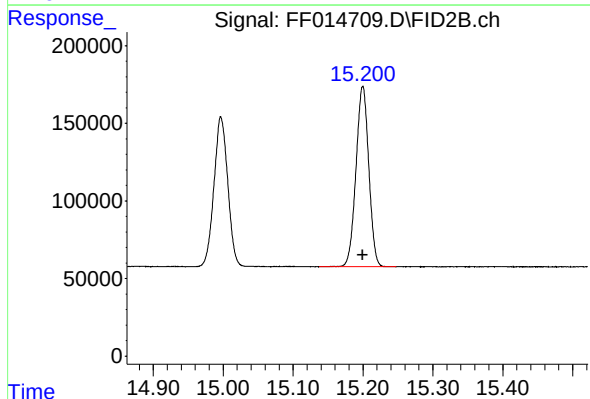
R.T.: 14.097 min
Delta R.T.: 0.000 min
Response: 1479666
Conc: 10.19 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

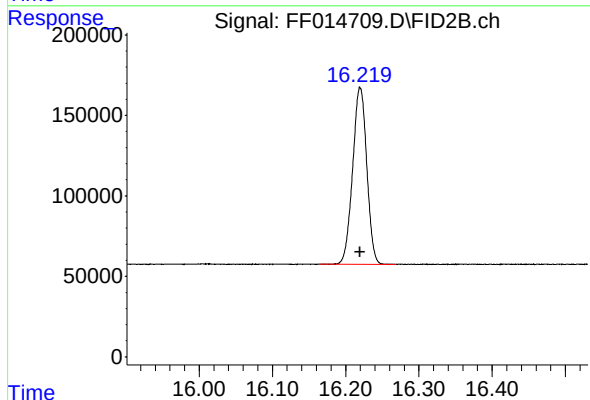
R.T.: 14.997 min
Delta R.T.: 0.000 min
Response: 1322603
Conc: 10.18 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



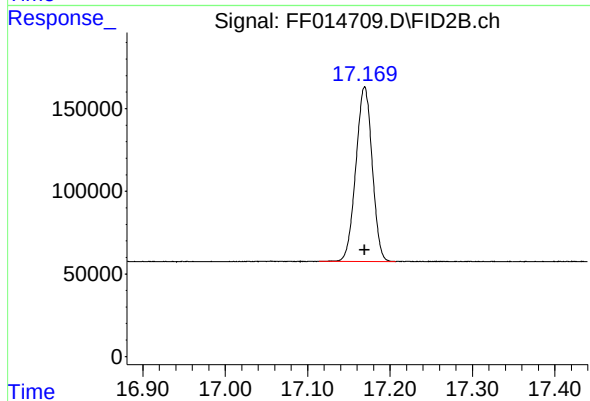
#10 N-TETRACOSANE

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1479406
Conc: 10.20 ug/ml



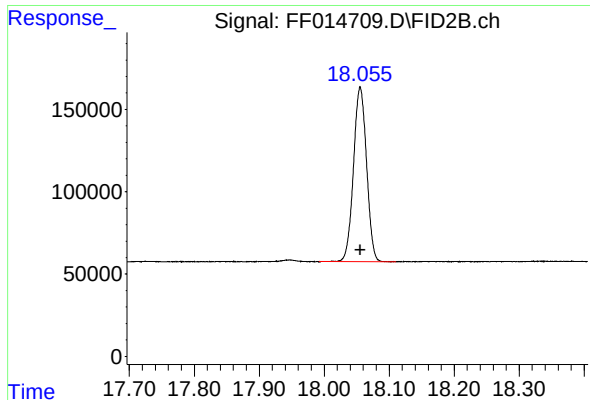
#11 N-HEXACOSANE

R.T.: 16.220 min
Delta R.T.: 0.000 min
Response: 1470196
Conc: 10.20 ug/ml



#12 N-OCTACOSANE

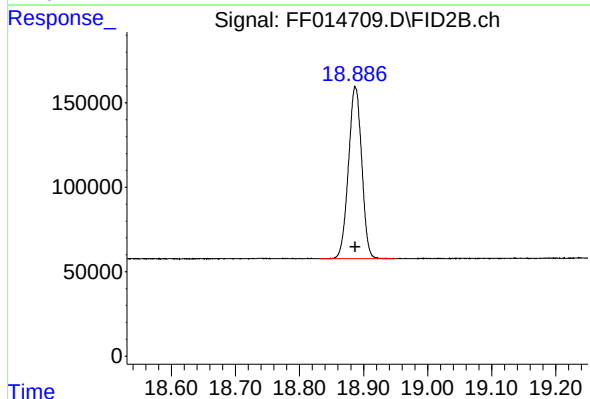
R.T.: 17.169 min
Delta R.T.: 0.000 min
Response: 1455486
Conc: 10.24 ug/ml



#13 N-TRIACONTANE

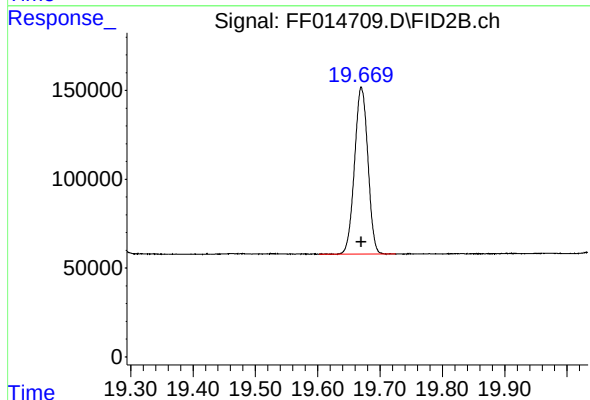
R.T.: 18.055 min
Delta R.T.: 0.000 min
Response: 1481698
Conc: 10.36 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



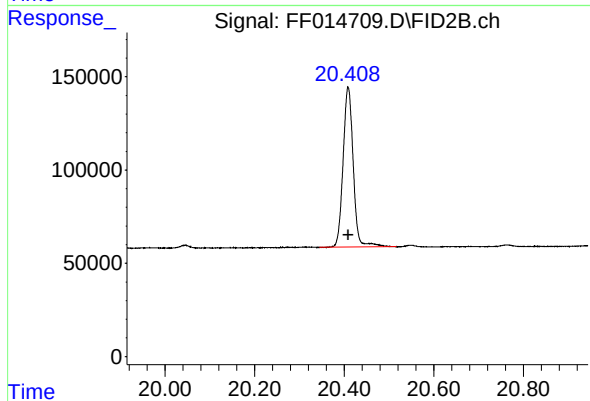
#14 N-DOTRIACONTANE

R.T.: 18.887 min
Delta R.T.: 0.000 min
Response: 1460398
Conc: 10.45 ug/ml



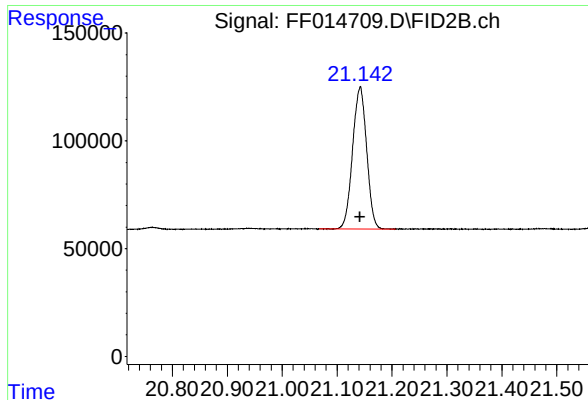
#15 N-TETRATRIACONTANE

R.T.: 19.670 min
Delta R.T.: 0.000 min
Response: 1394669
Conc: 10.42 ug/ml



#16 N-HEXATRIACONTANE

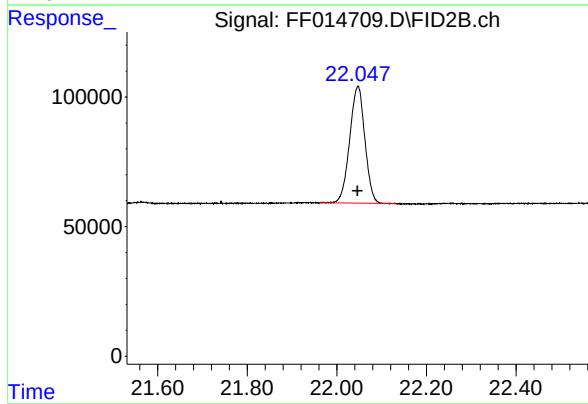
R.T.: 20.409 min
Delta R.T.: 0.000 min
Response: 1350478
Conc: 10.46 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min
Delta R.T.: 0.000 min
Response: 1172155
Conc: 10.37 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.047 min
Delta R.T.: 0.000 min
Response: 1062736
Conc: 10.28 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014709.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:46
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.044	1.994	2.100	BB	144443	1391050	91.58%	5.483%
2	4.561	4.527	4.590	BB	142326	1431638	94.25%	5.643%
3	6.721	6.687	6.764	BB	145021	1452786	95.64%	5.726%
4	8.545	8.504	8.592	BB	139689	1471114	96.85%	5.798%
5	10.151	10.092	10.200	BB	134197	1470544	96.81%	5.796%
6	11.592	11.532	11.635	BB	130092	1506346	99.17%	5.937%
7	12.901	12.840	12.954	BB	127584	1518951	100.00%	5.987%
8	14.097	14.037	14.145	BB	118761	1479666	97.41%	5.832%
9	14.997	14.939	15.054	BB	96188	1322603	87.07%	5.213%
10	15.200	15.137	15.247	BB	116501	1479406	97.40%	5.831%
11	16.220	16.164	16.269	BB	109521	1470196	96.79%	5.795%
12	17.169	17.114	17.207	BB	105580	1455486	95.82%	5.737%
13	18.055	17.992	18.110	BB	106271	1481698	97.55%	5.840%
14	18.887	18.830	18.950	BB	101797	1460398	96.15%	5.756%
15	19.670	19.602	19.725	BB	93819	1394669	91.82%	5.497%
16	20.409	20.344	20.515	BB	85772	1350478	88.91%	5.323%
17	21.142	21.067	21.207	BB	66140	1172155	77.17%	4.620%
18	22.047	21.960	22.132	BB	45214	1062736	69.97%	4.189%
Sum of corrected areas:							25371919	

FF102124.M Tue Oct 22 01:23:44 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
 Data File : FF014710.D
 Signal(s) : FID2B.ch
 Acq On : 21 Oct 2024 17:15
 Operator : YP\AJ
 Sample : 5 TRPH STD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 5 TRPH STD

Integration File: autoint1.e
 Quant Time: Oct 21 17:35:32 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:35:19 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.996	691394	5.254 ug/ml
Target Compounds			
1) N-OCTANE	2.044	735139	5.284 ug/ml
2) N-DECANE	4.560	756089	5.293 ug/ml
3) N-DODECANE	6.722	768253	5.294 ug/ml
4) N-TETRADECANE	8.545	775382	5.290 ug/ml
5) N-HEXADECANE	10.150	775794	5.279 ug/ml
6) N-OCTADECANE	11.591	792835	5.281 ug/ml
7) N-EICOSANE	12.900	800046	5.274 ug/ml
8) N-DOCOSANE	14.098	773720	5.258 ug/ml
10) N-TETRACOSANE	15.199	774521	5.270 ug/ml
11) N-HEXACOSANE	16.220	769893	5.271 ug/ml
12) N-OCTACOSANE	17.169	769883	5.328 ug/ml
13) N-TRIACONTANE	18.055	798876	5.457 ug/ml
14) N-DOTRIACONTANE	18.887	801393	5.570 ug/ml
15) N-TETRATRIACONTANE	19.670	752249	5.485 ug/ml
16) N-HEXATRIACONTANE	20.409	661136	5.096 ug/ml
17) N-OCTATRIACONTANE	21.142	614859	5.346 ug/ml
18) N-TETRACONTANE	22.046	557917	5.314 ug/ml

(f)=RT Delta > 1/2 Window

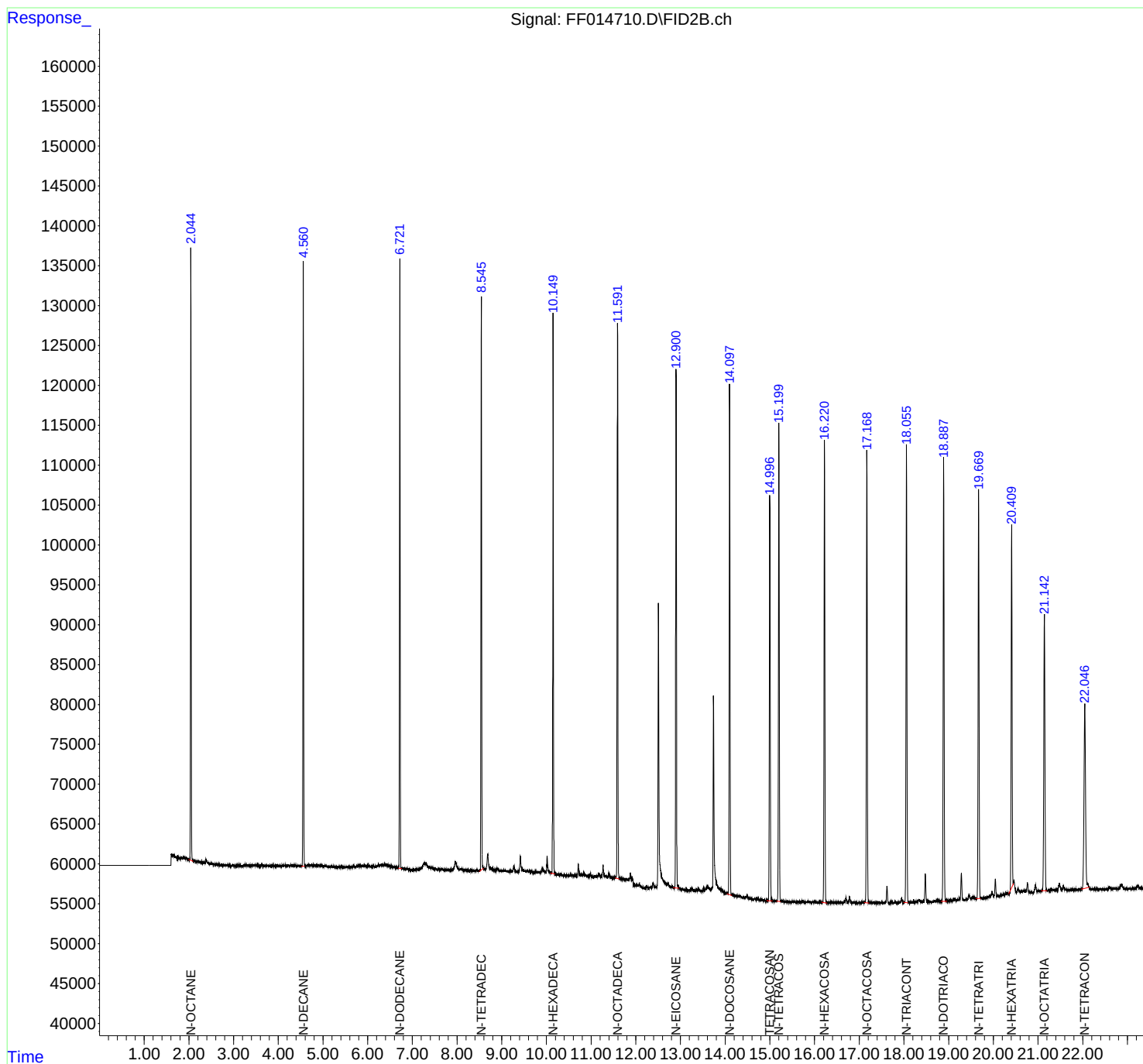
(m)=manual int.

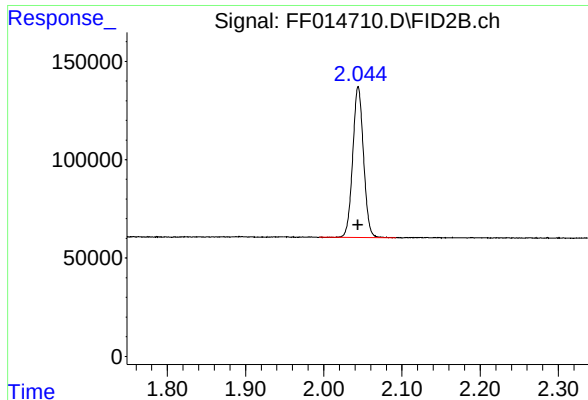
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014710.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:15
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 17:35:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 17:35:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

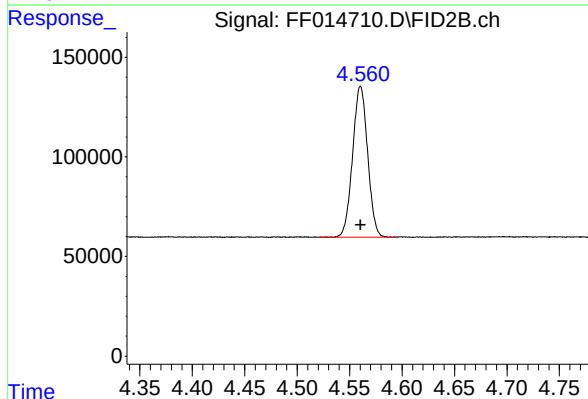




#1 N-OCTANE

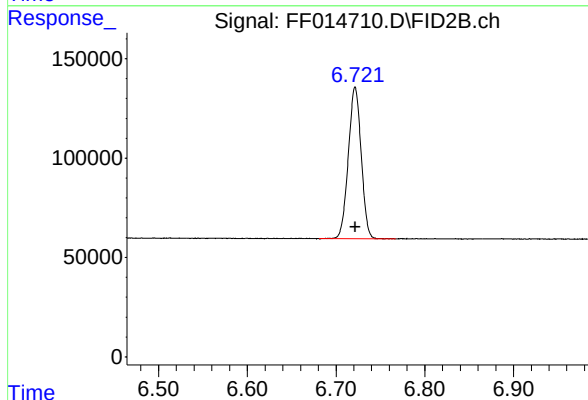
R.T.: 2.044 min
Delta R.T.: 0.000 min
Response: 735139
Conc: 5.28 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



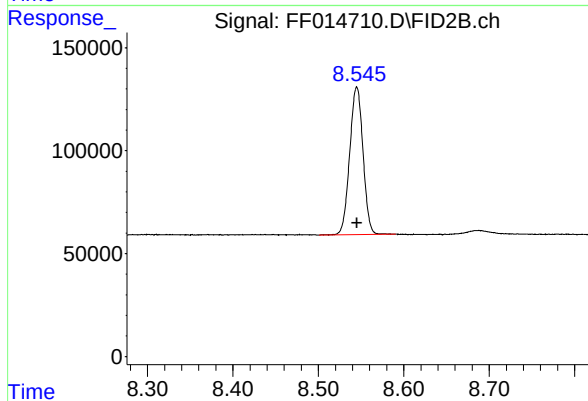
#2 N-DECANE

R.T.: 4.560 min
Delta R.T.: 0.000 min
Response: 756089
Conc: 5.29 ug/ml



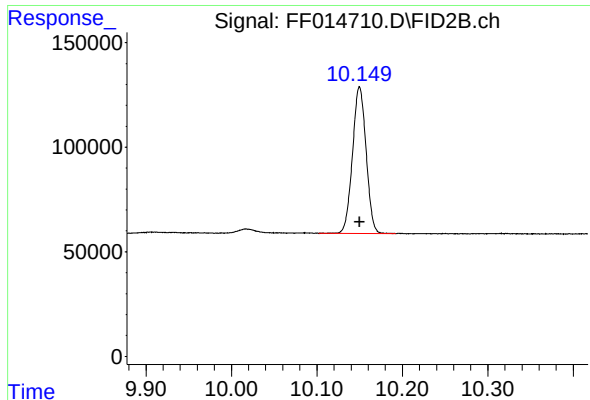
#3 N-DODECANE

R.T.: 6.722 min
Delta R.T.: 0.000 min
Response: 768253
Conc: 5.29 ug/ml



#4 N-TETRADECANE

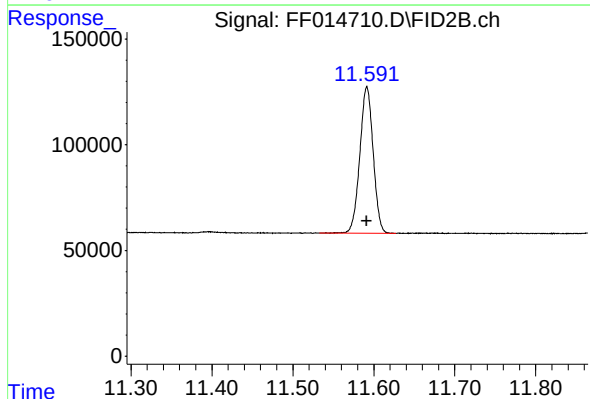
R.T.: 8.545 min
Delta R.T.: 0.000 min
Response: 775382
Conc: 5.29 ug/ml



#5 N-HEXADECANE

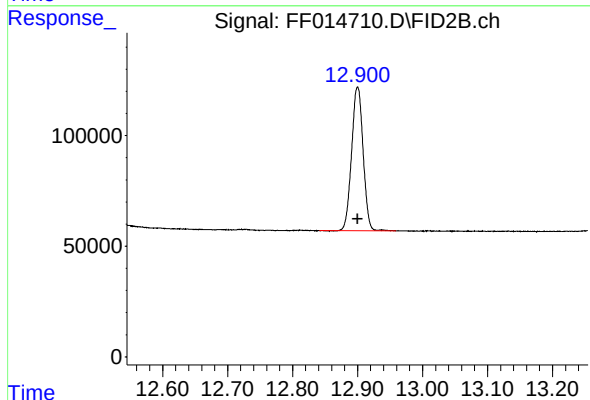
R.T.: 10.150 min
Delta R.T.: 0.000 min
Response: 775794
Conc: 5.28 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



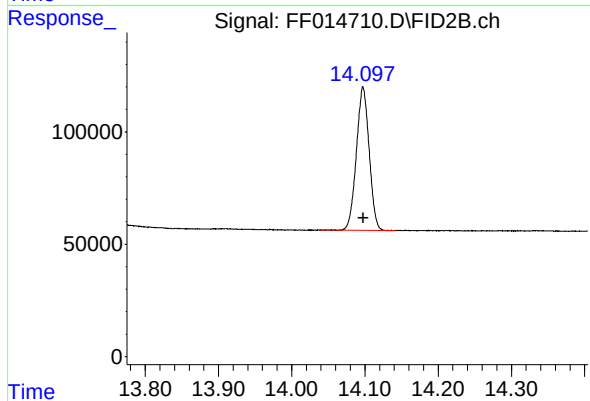
#6 N-OCTADECANE

R.T.: 11.591 min
Delta R.T.: 0.000 min
Response: 792835
Conc: 5.28 ug/ml



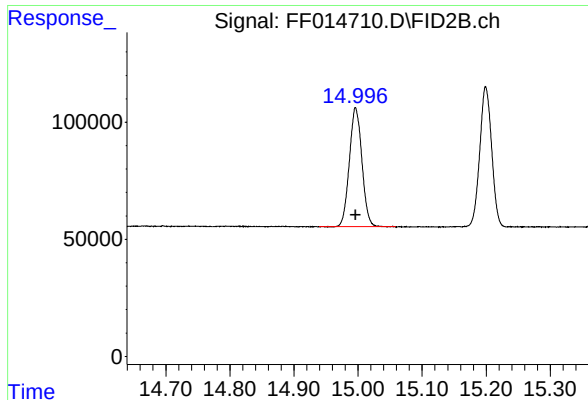
#7 N-EICOSANE

R.T.: 12.900 min
Delta R.T.: 0.000 min
Response: 800046
Conc: 5.27 ug/ml



#8 N-DOCOSANE

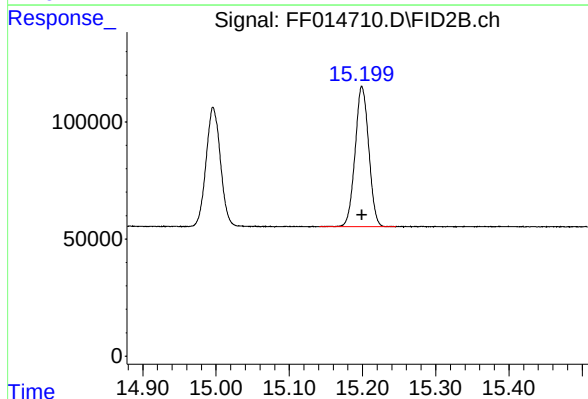
R.T.: 14.098 min
Delta R.T.: 0.000 min
Response: 773720
Conc: 5.26 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

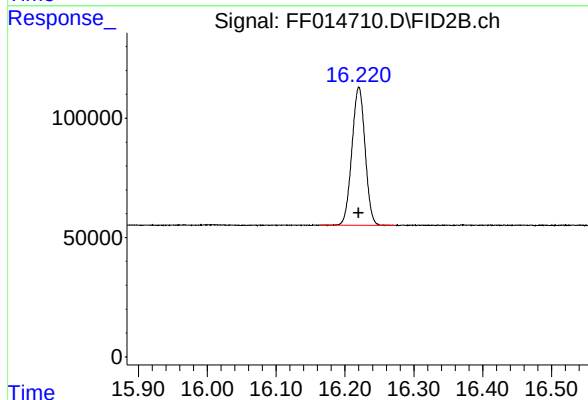
R.T.: 14.996 min
Delta R.T.: 0.000 min
Response: 691394
Conc: 5.25 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



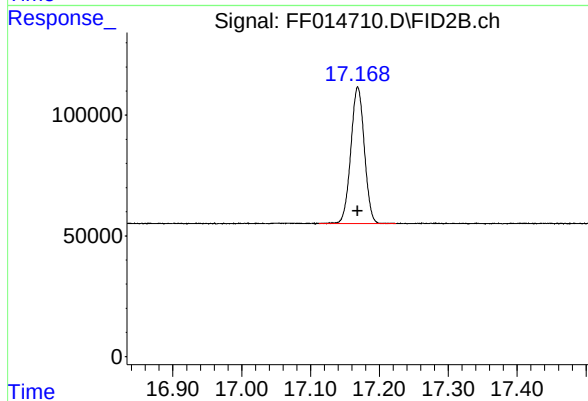
#10 N-TETRACOSANE

R.T.: 15.199 min
Delta R.T.: 0.000 min
Response: 774521
Conc: 5.27 ug/ml



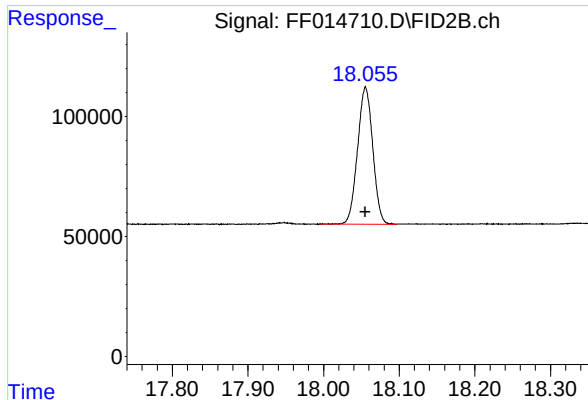
#11 N-HEXACOSANE

R.T.: 16.220 min
Delta R.T.: 0.000 min
Response: 769893
Conc: 5.27 ug/ml



#12 N-OCTACOSANE

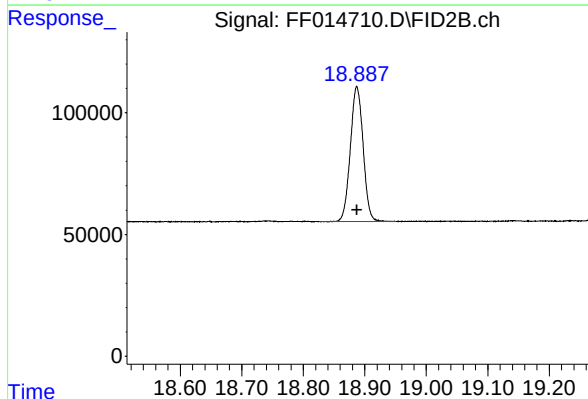
R.T.: 17.169 min
Delta R.T.: 0.000 min
Response: 769883
Conc: 5.33 ug/ml



#13 N-TRIACONTANE

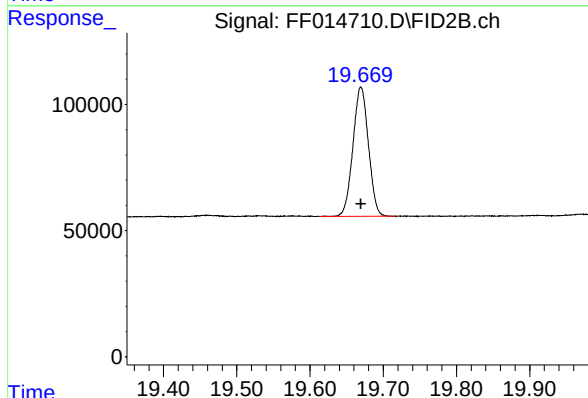
R.T.: 18.055 min
Delta R.T.: 0.000 min
Response: 798876
Conc: 5.46 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



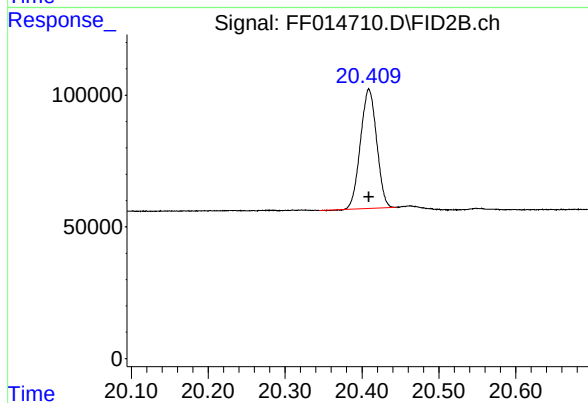
#14 N-DOTRIACONTANE

R.T.: 18.887 min
Delta R.T.: 0.000 min
Response: 801393
Conc: 5.57 ug/ml



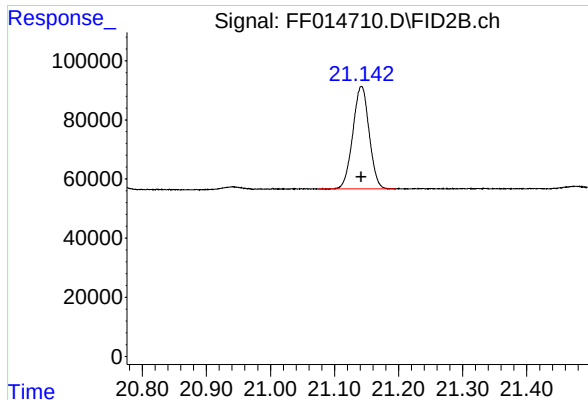
#15 N-TETRATRIACONTANE

R.T.: 19.670 min
Delta R.T.: 0.000 min
Response: 752249
Conc: 5.49 ug/ml



#16 N-HEXATRIACONTANE

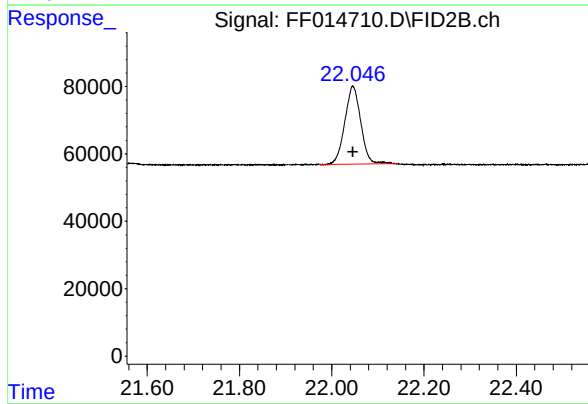
R.T.: 20.409 min
Delta R.T.: 0.000 min
Response: 661136
Conc: 5.10 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min
Delta R.T.: 0.000 min
Response: 614859
Conc: 5.35 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.046 min
Delta R.T.: 0.000 min
Response: 557917
Conc: 5.31 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014710.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:15
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.044	1.994	2.092	BB	76698	735139	91.73%	5.499%
2	4.560	4.521	4.594	BB	75833	756089	94.35%	5.655%
3	6.722	6.681	6.767	BB	76356	768253	95.86%	5.746%
4	8.545	8.501	8.591	BB	71832	775382	96.75%	5.800%
5	10.150	10.102	10.192	BB	70024	775794	96.81%	5.803%
6	11.591	11.532	11.627	BB	69155	792835	98.93%	5.930%
7	12.900	12.841	12.959	BB	64959	800046	99.83%	5.984%
8	14.098	14.037	14.142	BB	63877	773720	96.55%	5.787%
9	14.996	14.939	15.059	BB	50817	691394	86.27%	5.171%
10	15.199	15.141	15.246	BB	59864	774521	96.65%	5.793%
11	16.220	16.162	16.274	BB	58016	769893	96.07%	5.759%
12	17.169	17.112	17.224	BB	56438	769883	96.07%	5.759%
13	18.055	17.994	18.096	BB	57244	798876	99.69%	5.975%
14	18.887	18.826	18.951	BB	55492	801393	100.00%	5.994%
15	19.670	19.612	19.717	BB	51231	752249	93.87%	5.627%
16	20.409	20.344	20.444	BV	45303	661136	82.50%	4.945%
17	21.142	21.076	21.196	BB	34712	614859	76.72%	4.599%
18	22.046	21.972	22.139	BB	23121	557917	69.62%	4.173%
Sum of corrected areas:							13369378	

FF102124.M Tue Oct 22 01:24:03 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
 Data File : FF014711.D
 Signal(s) : FID2B.ch
 Acq On : 21 Oct 2024 17:44
 Operator : YP\AJ
 Sample : FF102124ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 FF102124ICV

Integration File: autoint1.e
 Quant Time: Oct 22 08:36:15 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
 Quant Title :
 QLast Update : Tue Oct 22 08:35:55 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.001	6320920	48.030 ug/ml
Target Compounds			
1) N-OCTANE	2.042	6688337	48.071 ug/ml
2) N-DECANE	4.562	6865268	48.058 ug/ml
3) N-DODECANE	6.725	6977659	48.084 ug/ml
4) N-TETRADECANE	8.549	7046711	48.072 ug/ml
5) N-HEXADECANE	10.154	7074200	48.140 ug/ml
6) N-OCTADECANE	11.596	7208290	48.014 ug/ml
7) N-EICOSANE	12.906	7293038	48.075 ug/ml
8) N-DOCOSANE	14.103	7073930	48.073 ug/ml
10) N-TETRACOSANE	15.205	7065898	48.077 ug/ml
11) N-HEXACOSANE	16.225	7025444	48.099 ug/ml
12) N-OCTACOSANE	17.174	6938938	48.023 ug/ml
13) N-TRIACONTANE	18.061	6944995	47.442 ug/ml
14) N-DOTRIACONTANE	18.893	6772290	47.074 ug/ml
15) N-TETRATRIACONTANE	19.676	6515975	47.512 ug/ml
16) N-HEXATRIACONTANE	20.414	6058417	46.700 ug/ml
17) N-OCTATRIACONTANE	21.147	5557472	48.319 ug/ml
18) N-TETRACONTANE	22.054	5137662	48.932 ug/ml

(f)=RT Delta > 1/2 Window

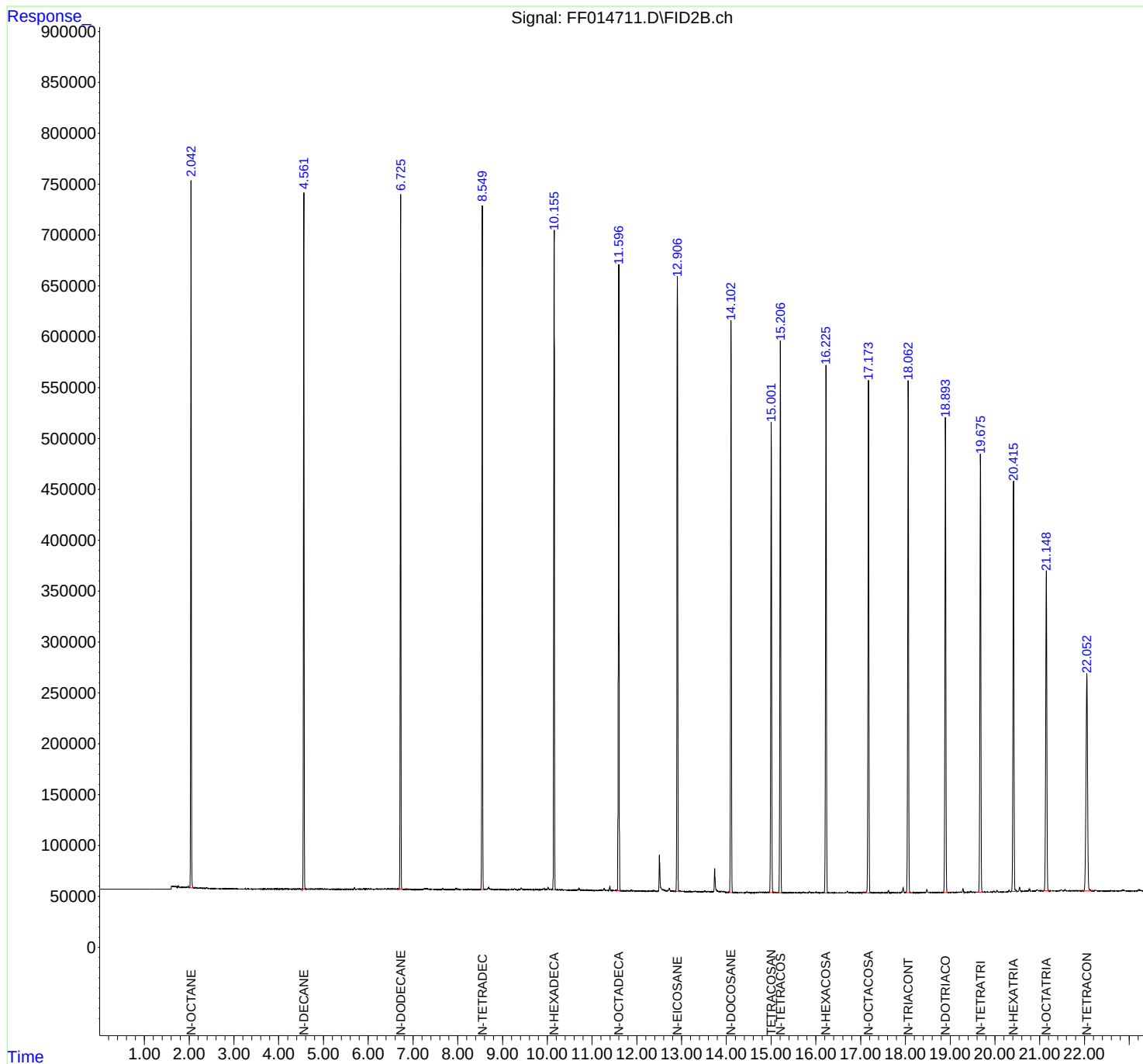
(m)=manual int.

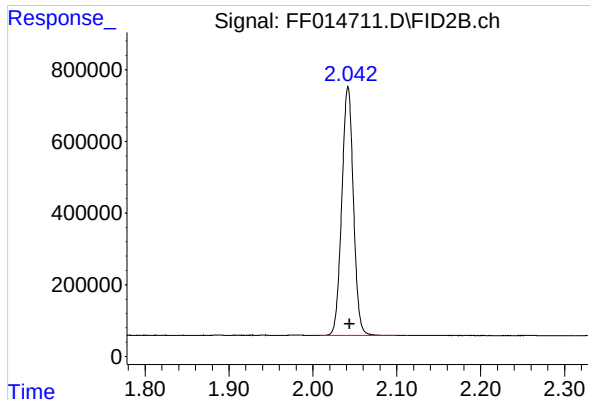
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014711.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:44
Operator : YP\AJ
Sample : FF102124ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
FF102124ICV

Integration File: autoint1.e
Quant Time: Oct 22 08:36:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
Qlast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

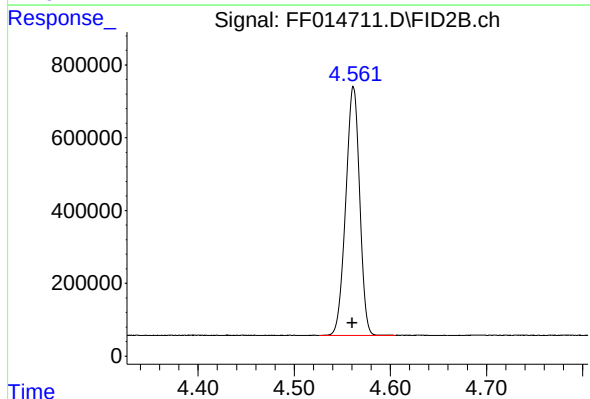




#1 N-OCTANE

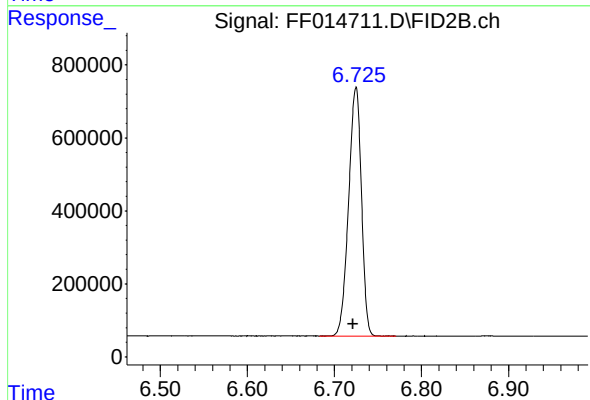
R.T.: 2.042 min
Delta R.T.: -0.002 min
Response: 6688337
Conc: 48.07 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



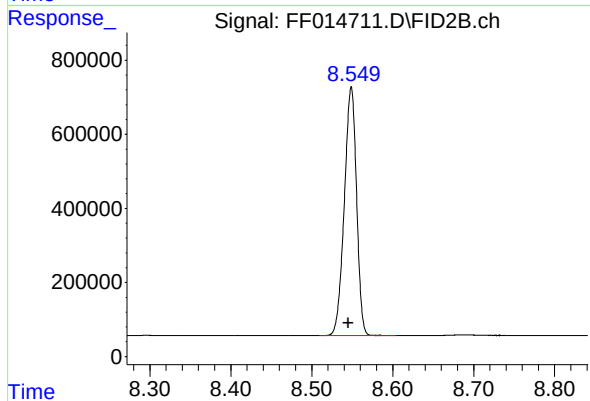
#2 N-DECANE

R.T.: 4.562 min
Delta R.T.: 0.000 min
Response: 6865268
Conc: 48.06 ug/ml



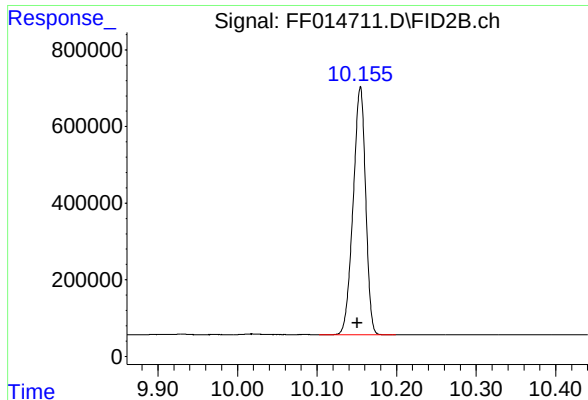
#3 N-DODECANE

R.T.: 6.725 min
Delta R.T.: 0.003 min
Response: 6977659
Conc: 48.08 ug/ml



#4 N-TETRADECANE

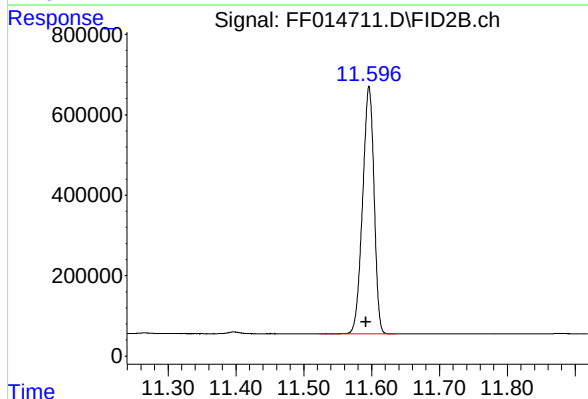
R.T.: 8.549 min
Delta R.T.: 0.004 min
Response: 7046711
Conc: 48.07 ug/ml



#5 N-HEXADECANE

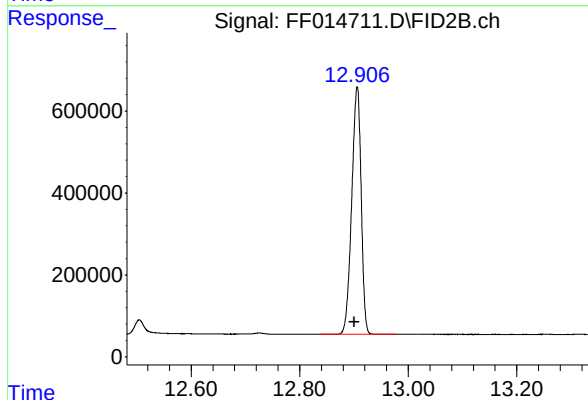
R.T.: 10.154 min
Delta R.T.: 0.004 min
Response: 7074200
Conc: 48.14 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



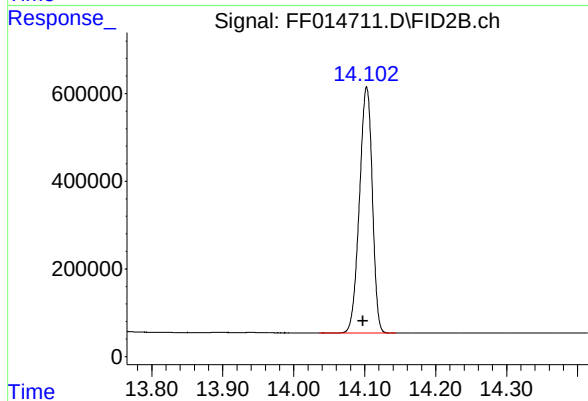
#6 N-OCTADECANE

R.T.: 11.596 min
Delta R.T.: 0.004 min
Response: 7208290
Conc: 48.01 ug/ml



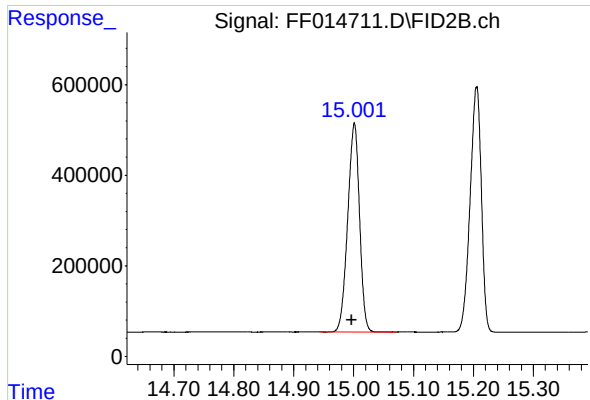
#7 N-EICOSANE

R.T.: 12.906 min
Delta R.T.: 0.005 min
Response: 7293038
Conc: 48.07 ug/ml



#8 N-DOCOSANE

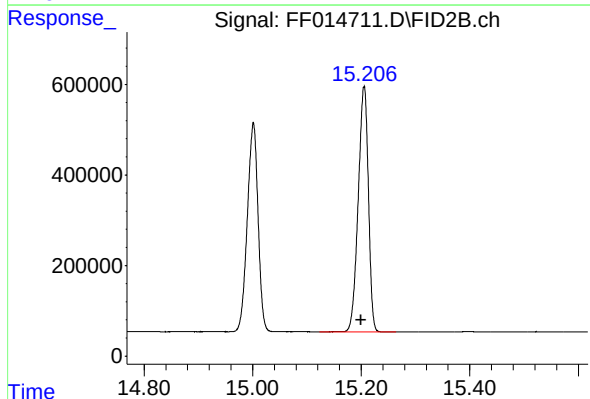
R.T.: 14.103 min
Delta R.T.: 0.005 min
Response: 7073930
Conc: 48.07 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

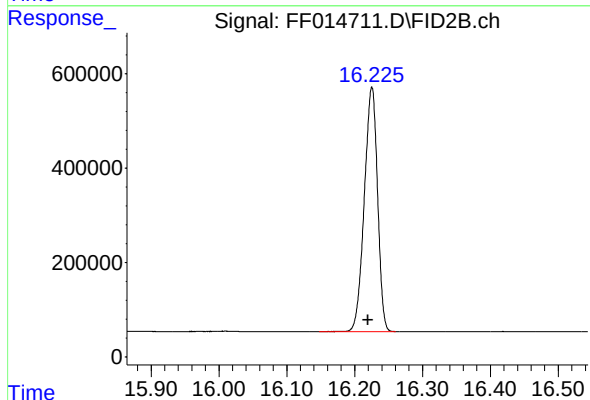
R.T.: 15.001 min
Delta R.T.: 0.004 min
Response: 6320920
Conc: 48.03 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



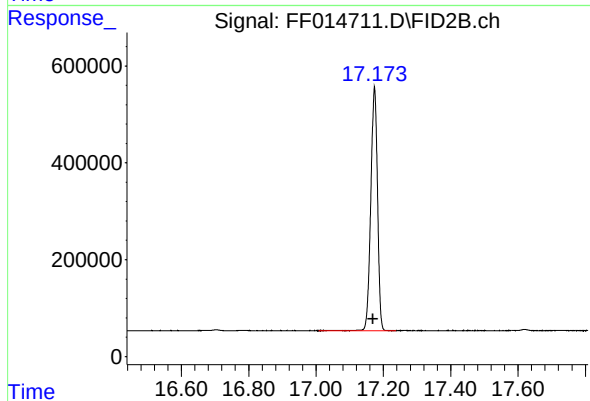
#10 N-TETRACOSANE

R.T.: 15.205 min
Delta R.T.: 0.005 min
Response: 7065898
Conc: 48.08 ug/ml



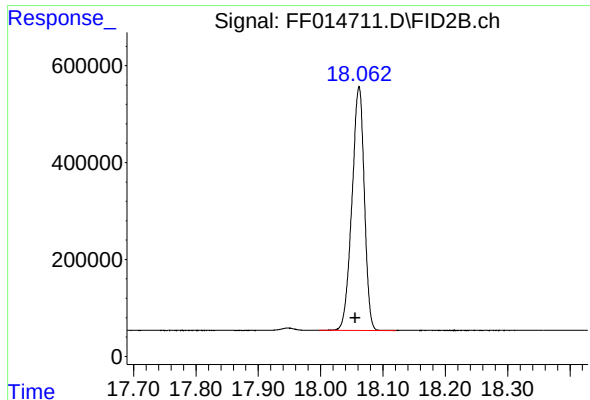
#11 N-HEXACOSANE

R.T.: 16.225 min
Delta R.T.: 0.005 min
Response: 7025444
Conc: 48.10 ug/ml



#12 N-OCTACOSANE

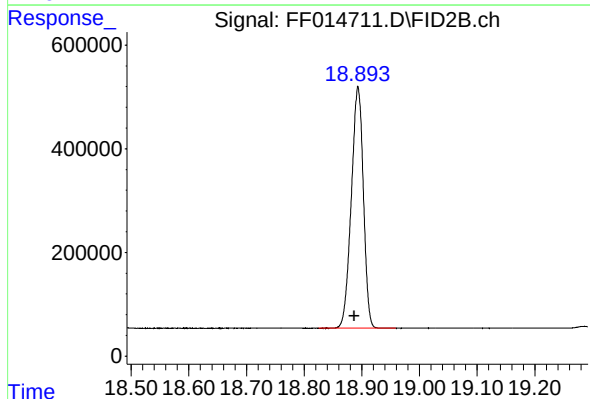
R.T.: 17.174 min
Delta R.T.: 0.004 min
Response: 6938938
Conc: 48.02 ug/ml



#13 N-TRIACONTANE

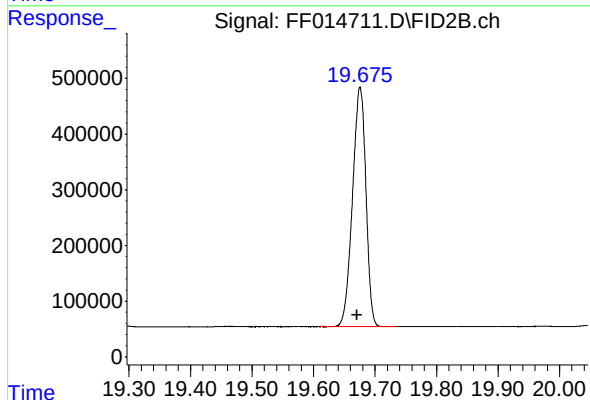
R.T.: 18.061 min
Delta R.T.: 0.006 min
Response: 6944995
Conc: 47.44 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



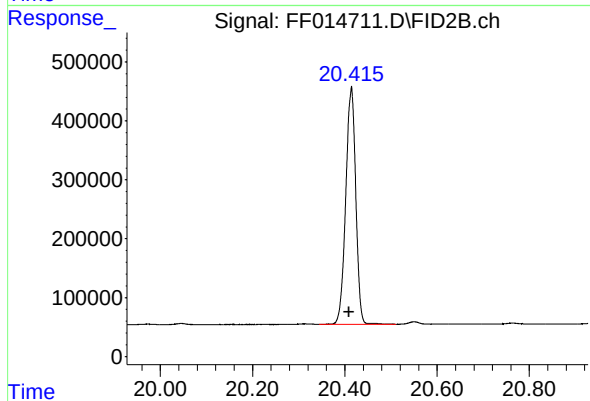
#14 N-DOTRIACONTANE

R.T.: 18.893 min
Delta R.T.: 0.006 min
Response: 6772290
Conc: 47.07 ug/ml



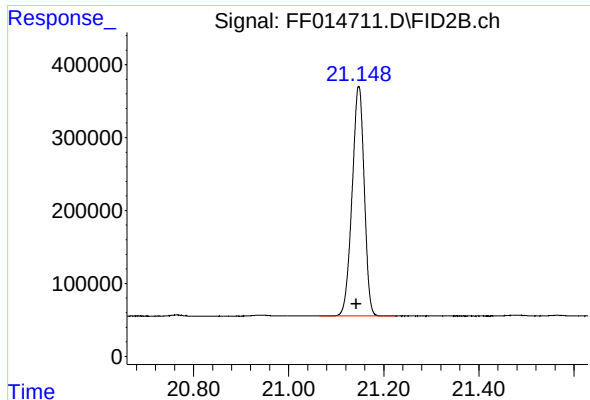
#15 N-TETRATRIACONTANE

R.T.: 19.676 min
Delta R.T.: 0.005 min
Response: 6515975
Conc: 47.51 ug/ml



#16 N-HEXATRIACONTANE

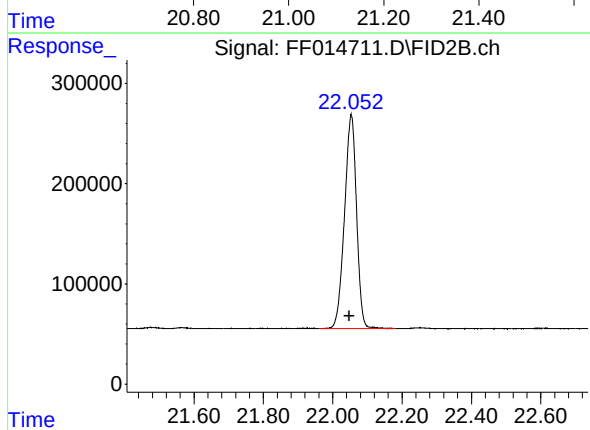
R.T.: 20.414 min
Delta R.T.: 0.005 min
Response: 6058417
Conc: 46.70 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.147 min
Delta R.T.: 0.006 min
Response: 5557472
Conc: 48.32 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



#18 N-TETRACONTANE

R.T.: 22.054 min
Delta R.T.: 0.006 min
Response: 5137662
Conc: 48.93 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014711.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:44
Sample : FF102124ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.042	2.007	2.099	BB	696414	6688337	91.71%	5.547%
2	4.562	4.526	4.606	BB	683926	6865268	94.13%	5.694%
3	6.725	6.682	6.771	BB	680524	6977659	95.68%	5.787%
4	8.549	8.509	8.604	BB	673720	7046711	96.62%	5.845%
5	10.154	10.102	10.199	BB	646114	7074200	97.00%	5.868%
6	11.596	11.522	11.636	BB	614857	7208290	98.84%	5.979%
7	12.906	12.836	12.977	BB	605809	7293038	100.00%	6.049%
8	14.103	14.036	14.144	BB	562179	7073930	97.00%	5.867%
9	15.001	14.942	15.071	BB	461889	6320920	86.67%	5.243%
10	15.205	15.122	15.264	BB	542671	7065898	96.89%	5.861%
11	16.225	16.147	16.261	BB	518720	7025444	96.33%	5.827%
12	17.174	17.009	17.237	BB	503882	6938938	95.14%	5.755%
13	18.061	17.997	18.121	BB	502039	6944995	95.23%	5.760%
14	18.893	18.826	18.959	BB	466196	6772290	92.86%	5.617%
15	19.676	19.609	19.734	BB	430021	6515975	89.35%	5.405%
16	20.414	20.344	20.511	BB	402366	6058417	83.07%	5.025%
17	21.147	21.064	21.226	BB	314456	5557472	76.20%	4.610%
18	22.054	21.961	22.182	BB	212181	5137662	70.45%	4.261%
Sum of corrected areas:						120565445		

FF102124.M Tue Oct 22 01:24:31 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Soil PT
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
DataFile: FF014757.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	74772222	149544	146801	1.869

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Soil PT
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
DataFile: FF014764.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	74647355	149295	146801	1.699

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Soil PT
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
DataFile: FF014773.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	73338469	146677	146801	0.084

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Soil PT
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
DataFile: FF014776.D Analyst Name: YP\AJ Analyst Date: 10-25-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	73865716	147731	146801	0.634

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CHEM02
ProjectID: NJ Soil PT
Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495
DataFile: FF014787.D Analyst Name: YP\AJ Analyst Date: 10-25-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	76936905	153874	146801	4.818

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P4495

Project: NJ Soil PT

Instrument ID: FID_F

GC Column: RXI-1MS **ID:** 0.18 (mm)

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION 14.9988					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	24 Oct 2024 12:00	FF014756.D	15.009	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2024 12:59	FF014757.D	15.014	
PB164381BL	PB164381BL	24 Oct 2024 14:33	FF014759.D	15.010	
PB164381BS	PB164381BS	24 Oct 2024 15:02	FF014760.D	15.011	
PIBLK02	LBLK02	24 Oct 2024 16:35	FF014763.D	15.010	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2024 17:33	FF014764.D	15.014	
EX-5-TPH-1MS	P4518-01MS	24 Oct 2024 19:58	FF014766.D	14.969	
EX-5-TPH-1MSD	P4518-01MSD	24 Oct 2024 20:27	FF014767.D	14.973	
PIBLK03	LBLK03	24 Oct 2024 22:52	FF014772.D	15.015	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2024 23:50	FF014773.D	15.018	
PIBLK04	LBLK04	25 Oct 2024 06:11	FF014775.D	15.012	
50 PPM TRPH STD	50 PPM TRPH STD	25 Oct 2024 06:40	FF014776.D	15.015	
PT-DIES-SOIL	P4495-14	25 Oct 2024 08:27	FF014778.D	15.009	
PIBLK05	LBLK05	25 Oct 2024 12:17	FF014786.D	15.011	
50 PPM TRPH STD	50 PPM TRPH STD	25 Oct 2024 12:46	FF014787.D	15.015	

Column used to flag RT values with an * values outside of QC limits

QC Limits
(± 0.10 minutes)

Lower Limit
14.8988

Upper Limits
15.0988

LAB CHRONICLE

OrderID:	P4495	OrderDate:	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	Project:	NJ Soil PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	PT-DIES-SOIL	SOIL			10/21/24			10/23/24
			Diesel Range Organics	8015D		10/24/24	10/24/24	
			Diesel Range Organics	8015D		10/24/24	10/25/24	
P4495-15	PT-GAS-SOIL	SOIL			10/21/24			10/23/24
			Gasoline Range Organics	8015D			10/24/24	
			Gasoline Range Organics	8015D			10/30/24	
P4495-16	PT-NJEPH-SOIL	Solid			10/21/24			10/23/24
			EPH	NJEPH		10/25/24	10/28/24	
P4495-17	PT-HERB-SOIL	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-17RE	PT-HERB-SOILRE	SOIL			10/21/24			10/23/24
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-18	PT-PCB-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-18DL	PT-PCB-SOIL DL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/25/24	
P4495-19	PT-PCBO-SOIL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/28/24	
P4495-19DL	PT-PCBO-SOILDL	SOIL			10/21/24			10/23/24
			PCB	8082A		10/25/24	10/28/24	
P4495-20	PT-PEST-SOIL	SOIL			10/21/24			10/23/24
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL	SOIL			10/21/24			10/23/24

LAB CHRONICLE

			PESTICIDE Group1	8081B	10/25/24	11/04/24	
P4495-20DL	PT-PEST-SOILDL2	SOIL			10/21/24		10/23/24
2							
			PESTICIDE Group1	8081B	10/25/24	11/04/24	
P4495-21	PT-CHLR-SOIL	SOIL			10/21/24		10/23/24
			PESTICIDE Group2	8081B	10/25/24	10/31/24	
P4495-22	PT-TXP-SOIL	SOIL			10/21/24		10/23/24
			PESTICIDE Group3	8081B	10/25/24	10/31/24	
P4495-22DL	PT-TXP-SOILDL	SOIL			10/21/24		10/23/24
			PESTICIDE Group3	8081B	10/25/24	10/31/24	



SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 11:26	PB164396

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	177		10	5.62	14.8	mg/kg FC067537.D
Aliphatic C12-C16	Aliphatic C12-C16	429		25	8.88	24.7	mg/kg FC067538.D
Aliphatic C16-C21	Aliphatic C16-C21	370		25	11.1	37.0	mg/kg FC067538.D
Aliphatic C21-C28	Aliphatic C21-C28	54.1		5	5.92	9.87	mg/kg FC067536.D
Aliphatic C28-C40	Aliphatic C28-C40	14.7		1	2.66	2.96	mg/kg FC067535.D
Aromatic C10-C12	Aromatic C10-C12	32.8		5	2.22	4.93	mg/kg FD048599.D
Aromatic C12-C16	Aromatic C12-C16	104		5	2.52	7.40	mg/kg FD048599.D
Aromatic C16-C21	Aromatic C16-C21	193		5	7.10	12.3	mg/kg FD048599.D
Aromatic C21-C36	Aromatic C21-C36	42.3		1	2.96	3.95	mg/kg FD048598.D
Total AliphaticEPH	Total AliphaticEPH	1040			34.2	89.3	mg/kg
Total AromaticEPH	Total AromaticEPH	372			14.8	28.6	mg/kg
Total EPH	Total EPH	1420			49.0	118	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067535.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	180	E	0.56	1.48	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	398	E	0.36	0.99	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	352	E	0.44	1.48	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	67.8	E	1.18	1.97	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.7		2.66	2.96	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.2		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16	Acq On:	28 Oct 2024 09:53
Client Sample ID:	PT-NJEPH-SOIL	Operator:	YP/AJ
Data file:	FC067535.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	3.173	6.453	247270961	1830	300	ug/ml
Aliphatic C12-C16	6.454	9.842	531469553	4040	200	ug/ml
Aliphatic C16-C21	9.843	13.200	454300268	3570	300	ug/ml
Aliphatic C21-C28	13.201	16.853	82501836	686.998	400	ug/ml
Aliphatic C28-C40	16.854	21.695	15039209	148.766	600	ug/ml
Aliphatic EPH	3.173	21.695	1330581827	10300		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.939	12.939	4988958	46.2		ug/ml
Aliphatic C9-C28	3.173	16.853	1315542618	10100	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048598.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	33.7	E	0.44	0.99	mg/kg
Aromatic C12-C16	Aromatic C12-C16	117	E	0.50	1.48	mg/kg
Aromatic C16-C21	Aromatic C16-C21	192	E	1.42	2.47	mg/kg
Aromatic C21-C36	Aromatic C21-C36	42.3		2.96	3.95	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	64.9		40 - 140	130%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	61.6		40 - 140	123%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.8		40 - 140	106%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4495-16	Acq On:	28 Oct 2024 10:32
Client Sample ID:	PT-NJEPH-SOIL	Operator:	YP/AJ
Data file:	FD048598.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	4.094	5.812	60142570	341.326	200	ug/ml
Aromatic C12-C16	5.813	8.417	210868072	1190	300	ug/ml
Aromatic C16-C21	8.418	12.677	319145650	1950	500	ug/ml
Aromatic C21-C36	12.678	18.081	65472370	428.728	800	ug/ml
Aromatic EPH	4.094	18.081	655628662	3910		ug/ml
ortho-Terphenyl (SURR)	11.262	11.262	8995694	52.81		ug/ml
2-Bromonaphthalene (SURR)	7.375	7.375	9843972	64.86		ug/ml
2-Fluorobiphenyl (SURR)	8.227	8.227	6045437	61.57		ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-16DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067536.D	5	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	173	E	2.81	7.40	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	379	E	1.78	4.93	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	332	E	2.22	7.40	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	54.1		5.92	9.87	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.6	J	13.3	14.8	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	9.18		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16DL	Acq On:	28 Oct 2024 10:32
Client Sample ID:	PT-NJEPH-SOILDL	Operator:	YP/AJ
Data file:	FC067536.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	47587922	351.281	300	ug/ml
Aliphatic C12-C16	6.454	9.842	101304429	769.313	200	ug/ml
Aliphatic C16-C21	9.843	13.200	85664540	673.278	300	ug/ml
Aliphatic C21-C28	13.201	16.853	13167389	109.646	400	ug/ml
Aliphatic C28-C40	16.854	21.695	2987023	29.547	600	ug/ml
Aliphatic EPH	3.173	21.695	250711303	1930		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	990988	9.18		ug/ml
Aliphatic C9-C28	3.173	16.853	247724280	1900	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-16DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048599.D	5	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	32.8		2.22	4.93	mg/kg
Aromatic C12-C16	Aromatic C12-C16	104		2.52	7.40	mg/kg
Aromatic C16-C21	Aromatic C16-C21	193		7.10	12.3	mg/kg
Aromatic C21-C36	Aromatic C21-C36	47.4		14.8	19.7	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	12.3		40 - 140	123%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	11.4		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	9.75		40 - 140	98%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4495-16DL	Acq On:	28 Oct 2024 11:26
Client Sample ID:	PT-NJEPH-SOILDL	Operator:	YP/AJ
Data file:	FD048599.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	11706057	66.435	200	ug/ml
Aromatic C12-C16	5.813	8.417	37597222	212.086	300	ug/ml
Aromatic C16-C21	8.418	12.677	64233129	392.066	500	ug/ml
Aromatic C21-C36	12.678	18.081	14679323	96.124	800	ug/ml
Aromatic EPH	4.094	18.081	128215731	766.71		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	1661344	9.75		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	1872166	12.33		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	1114983	11.36		ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL2	SDG No.:	P4495
Lab Sample ID:	P4495-16DL2	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067537.D	10	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	177		5.62	14.8	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	388	E	3.55	9.87	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	345	E	4.44	14.8	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	51.6		11.8	19.7	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	12.8	J	26.6	29.6	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	4.75		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16DL2	Acq On:	28 Oct 2024 11:26
Client Sample ID:	PT-NJEPH-SOILDL2	Operator:	YP/AJ
Data file:	FC067537.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	24358182	179.805	300	ug/ml
Aliphatic C12-C16	6.454	9.842	51887370	394.036	200	ug/ml
Aliphatic C16-C21	9.843	13.200	44514669	349.862	300	ug/ml
Aliphatic C21-C28	13.201	16.853	6278967	52.285	400	ug/ml
Aliphatic C28-C40	16.854	21.695	1306494	12.924	600	ug/ml
Aliphatic EPH	3.173	21.695	128345682	988.912		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	512964	4.75		ug/ml
Aliphatic C9-C28	3.173	16.853	127039188	975.988	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL3	SDG No.:	P4495
Lab Sample ID:	P4495-16DL3	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067538.D	25	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	199		14.1	37.0	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	429		8.88	24.7	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	370		11.1	37.0	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	55.0		29.6	49.3	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	66.6	U	66.6	74.0	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	1.82		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16DL3	Acq On:	28 Oct 2024 12:03
Client Sample ID:	PT-NJEPH-SOILDL3	Operator:	YP/AJ
Data file:	FC067538.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	25	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	10951153	80.838	300	ug/ml
Aliphatic C12-C16	6.454	9.842	22931374	174.142	200	ug/ml
Aliphatic C16-C21	9.843	13.200	19110771	150.2	300	ug/ml
Aliphatic C21-C28	13.201	16.853	2677131	22.293	400	ug/ml
Aliphatic C28-C40	16.854	21.695	612933	6.063	600	ug/ml
Aliphatic EPH	3.173	21.695	56283362	433.537		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	196940	1.82		ug/ml
Aliphatic C9-C28	3.173	16.853	55670429	427.473	1200	ug/ml



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM CASE No.: P4495 SAS No.: P4495 SDG No.: P4495
Run Number: FC102824AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PT-NJEPH-SOIL	92			0
PT-NJEPH-SOILDL	92			0
PT-NJEPH-SOILDL2	95			0
PT-NJEPH-SOILDL3	91			0
EX-5-TPH-5MS	81			0
EX-5-TPH-5MSD	76			0
PB164396BL	78			0
PB164396BS	61			0
PB164396BSD	67			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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM CASE No.: P4495 SAS No.: P4495 SDG No.: P4495
Run Number: FD102824AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PT-NJEPH-SOIL	130	123	106	0
PT-NJEPH-SOILDL	123	114	98	0
EX-5-TPH-5MS	128	117	71	0
EX-5-TPH-5MSD	125	114	71	0
PB164396BL	104	101	90	0
PB164396BS	98	100	80	0
PB164396BSD	101	104	83	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



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

SOIL EPH SURROGATE RECOVERY

- A
- B
- C
- D
- E
- F

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

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : P4518-05MS **Datafile:** FC067546.D
Client ID : EX-5-TPH-5MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	13.5	23.2	42.9	145	*	(40-140)
Aliphatic C12-C16	9.0	184	268	921	*	(40-140)
Aliphatic C16-C21	13.5	200	304	762	*	(40-140)
Aliphatic C21-C28	18.0	36.9	105	377	*	(40-140)
Aliphatic C28-C40	27.0	38.9	126	321	*	(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : P4518-05MSD **Datafile:** FC067547.D
Client ID : EX-5-TPH-5MSD

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	13.5	23.2	42.2	140	*	3.51 (40-140)	25
Aliphatic C12-C16	9.0	184	262	856	*	7.32 (40-140)	25
Aliphatic C16-C21	13.5	200	302	748	*	1.85 (40-140)	25
Aliphatic C21-C28	18.0	36.9	100	350	*	7.43 (40-140)	25
Aliphatic C28-C40	27.0	38.9	122	307	*	4.46 (40-140)	25

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : P4518-05MS **Datafile:** FD048607.D
Client ID : EX-5-TPH-5MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	9.0	4.94	15.4	116		(40-140)
Aromatic C12-C16	13.5	55.1	85.4	223	*	(40-140)
Aromatic C16-C21	22.5	191	255	281	*	(40-140)
Aromatic C21-C36	36.1	40.5	90.4	138		(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : P4518-05MSD **Datafile:** FD048608.D
Client ID : EX-5-TPH-5MSD

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	9.0	4.94	15.1	112		3.51 (40-140)	25
Aromatic C12-C16	13.5	55.1	79.5	180	*	21.3 (40-140)	25
Aromatic C16-C21	22.5	191	254	277	*	1.43 (40-140)	25
Aromatic C21-C36	36.0	40.5	86.6	127		8.3 (40-140)	25

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : PB164396BS **Datafile:** FC067543.D
Client ID : PB164396BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.70	57		(40-140)
Aliphatic C12-C16	6.7	5.41	81		(40-140)
Aliphatic C16-C21	10	9.37	94		(40-140)
Aliphatic C21-C28	13.3	12.7	95		(40-140)
Aliphatic C28-C40	20.0	22.7	113		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : PB164396BSD **Datafile:** FC067544.D
Client ID : PB164396BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.66	57		0.813 (40-140)	50
Aliphatic C12-C16	6.7	5.38	81		0.551 (40-140)	50
Aliphatic C16-C21	10	9.32	93		0.575 (40-140)	50
Aliphatic C21-C28	13.3	12.6	95		0.776 (40-140)	50
Aliphatic C28-C40	20.0	22.6	113		0.06 (40-140)	50

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : PB164396BS **Datafile:** FD048604.D
Client ID : PB164396BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	4.85	73		(40-140)
Aromatic C12-C16	10	8.24	82		(40-140)
Aromatic C16-C21	16.7	17.6	105		(40-140)
Aromatic C21-C36	26.6	26.4	99		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group
Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495
Sample No : PB164396BSD **Datafile:** FD048605.D
Client ID : PB164396BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	5.03	76		3.6 (40-140)	50
Aromatic C12-C16	10	8.57	86		3.9 (40-140)	50
Aromatic C16-C21	16.7	18.3	109		4.5 (40-140)	50
Aromatic C21-C36	26.6	27.3	102		3.3 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164396BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P4495

SAS No.: P4495 SDG NO.: P4495

Instrument ID: FID_C

Lab Sample ID: PB164396BL

Matrix: (soil/water) Solid

Date Extracted: 10/25/2024 9:05:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164396BS	PB164396BS
PB164396BSD	PB164396BSD
PT-NJEPH-SOIL	P4495-16
EX-5-TPH-5MS	P4518-05MS
EX-5-TPH-5MSD	P4518-05MSD

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB164396BL		SDG No.:	P4495
Lab Sample ID:	PB164396BL		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
Prep Method :				

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 14:32	PB164396

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC067542.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067542.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067542.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067542.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067542.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048603.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048603.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048603.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FD048603.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.01	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BL	SDG No.:	P4495
Lab Sample ID:	PB164396BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067542.D	1	10/25/24	10/28/24	PB164396

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)	39.0		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164396BL	Acq On:	28 Oct 2024 14:32
Client Sample ID:	PB164396BL	Operator:	YP/AJ
Data file:	FC067542.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	0	0	300	ug/ml
Aliphatic C12-C16	6.454	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.200	0	0	300	ug/ml
Aliphatic C21-C28	13.201	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.695	0	0	600	ug/ml
Aliphatic EPH	3.173	21.695	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4211764	39		ug/ml
Aliphatic C9-C28	3.173	16.853	0	0	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BL	SDG No.:	P4495
Lab Sample ID:	PB164396BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048603.D	1	10/25/24	10/28/24	PB164396

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	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.0		40 - 140	104%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	50.4		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.9		40 - 140	90%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164396BL	Acq On:	28 Oct 2024 13:55
Client Sample ID:	PB164396BL	Operator:	YP/AJ
Data file:	FD048603.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	0	0	200	ug/ml
Aromatic C12-C16	5.813	8.417	0	0	300	ug/ml
Aromatic C16-C21	8.418	12.677	0	0	500	ug/ml
Aromatic C21-C36	12.678	18.081	0	0	800	ug/ml
Aromatic EPH	4.094	18.081	0	0		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	7644072	44.88		ug/ml
2-Bromonaphthalene (SURR)	7.373	7.373	7892901	52		ug/ml
2-Fluorobiphenyl (SURR)	8.221	8.221	4953164	50.44		ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BS	SDG No.:	P4495
Lab Sample ID:	PB164396BS	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
10/25/24 09:05	10/28/24 15:08	PB164396

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	5.70		1	0.38	1.00	mg/kg FC067543.D
Aliphatic C12-C16	Aliphatic C12-C16	5.41		1	0.24	0.67	mg/kg FC067543.D
Aliphatic C16-C21	Aliphatic C16-C21	9.37		1	0.30	1.00	mg/kg FC067543.D
Aliphatic C21-C28	Aliphatic C21-C28	12.7		1	0.80	1.33	mg/kg FC067543.D
Aliphatic C28-C40	Aliphatic C28-C40	22.7		1	1.80	2.00	mg/kg FC067543.D
Aromatic C10-C12	Aromatic C10-C12	4.85		1	0.30	0.67	mg/kg FD048604.D
Aromatic C12-C16	Aromatic C12-C16	8.24		1	0.34	1.00	mg/kg FD048604.D
Aromatic C16-C21	Aromatic C16-C21	17.6		1	0.96	1.67	mg/kg FD048604.D
Aromatic C21-C36	Aromatic C21-C36	26.4		1	2.00	2.66	mg/kg FD048604.D
Total AliphaticEPH	Total AliphaticEPH	55.9			3.52	5.99	mg/kg
Total AromaticEPH	Total AromaticEPH	57.1			3.60	6.00	mg/kg
Total EPH	Total EPH	113			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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BS	SDG No.:	P4495
Lab Sample ID:	PB164396BS	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
FC067543.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
	Aliphatic C9-C12	Aliphatic C9-C12	5.70	0.38	1.00	mg/kg
	Aliphatic C12-C16	Aliphatic C12-C16	5.41	0.24	0.67	mg/kg
	Aliphatic C16-C21	Aliphatic C16-C21	9.37	0.30	1.00	mg/kg
	Aliphatic C21-C28	Aliphatic C21-C28	12.7	0.80	1.33	mg/kg
	Aliphatic C28-C40	Aliphatic C28-C40	22.7	1.80	2.00	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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164396BS	Acq On:	28 Oct 2024 15:08
Client Sample ID:	PB164396BS	Operator:	YP/AJ
Data file:	FC067543.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	11602133	85.644	300	ug/ml
Aliphatic C12-C16	6.454	9.842	10695713	81.224	200	ug/ml
Aliphatic C16-C21	9.843	13.200	17892667	140.627	300	ug/ml
Aliphatic C21-C28	13.201	16.853	22932840	190.963	400	ug/ml
Aliphatic C28-C40	16.854	21.695	34400430	340.284	600	ug/ml
Aliphatic EPH	3.173	21.695	97523783	838.742		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	3308795	30.64		ug/ml
Aliphatic C9-C28	3.173	16.853	63123353	498.458	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BS	SDG No.:	P4495
Lab Sample ID:	PB164396BS	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
FD048604.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.85		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.24		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	17.6		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.4		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.8		40 - 140	98%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	49.8		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.1		40 - 140	80%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164396BS	Acq On:	28 Oct 2024 14:32
Client Sample ID:	PB164396BS	Operator:	YP/AJ
Data file:	FD048604.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	12825233	72.787	200	ug/ml
Aromatic C12-C16	5.813	8.417	21934412	123.732	300	ug/ml
Aromatic C16-C21	8.418	12.677	43230256	263.869	500	ug/ml
Aromatic C21-C36	12.678	18.081	60433780	395.734	800	ug/ml
Aromatic EPH	4.094	18.081	138423681	856.121		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	6830259	40.1		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	7402684	48.77		ug/ml
2-Fluorobiphenyl (SURR)	8.222	8.222	4892407	49.82		ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BSD	SDG No.:	P4495
Lab Sample ID:	PB164396BSD	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
10/25/24 09:05	10/28/24 15:50	PB164396

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	5.66		1	0.38	1.00	mg/kg FC067544.D
Aliphatic C12-C16	Aliphatic C12-C16	5.38		1	0.24	0.67	mg/kg FC067544.D
Aliphatic C16-C21	Aliphatic C16-C21	9.32		1	0.30	1.00	mg/kg FC067544.D
Aliphatic C21-C28	Aliphatic C21-C28	12.6		1	0.80	1.33	mg/kg FC067544.D
Aliphatic C28-C40	Aliphatic C28-C40	22.6		1	1.80	2.00	mg/kg FC067544.D
Aromatic C10-C12	Aromatic C10-C12	5.03		1	0.30	0.67	mg/kg FD048605.D
Aromatic C12-C16	Aromatic C12-C16	8.57		1	0.34	1.00	mg/kg FD048605.D
Aromatic C16-C21	Aromatic C16-C21	18.3		1	0.96	1.67	mg/kg FD048605.D
Aromatic C21-C36	Aromatic C21-C36	27.3		1	2.00	2.66	mg/kg FD048605.D
Total AliphaticEPH	Total AliphaticEPH	55.6			3.52	5.99	mg/kg
Total AromaticEPH	Total AromaticEPH	59.2			3.60	6.00	mg/kg
Total EPH	Total EPH	115			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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BSD	SDG No.:	P4495
Lab Sample ID:	PB164396BSD	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
FC067544.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.66		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.38		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.32		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.6		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.6		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.3		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164396BSD	Acq On:	28 Oct 2024 15:50
Client Sample ID:	PB164396BSD	Operator:	YP/AJ
Data file:	FC067544.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	11516872	85.014	300	ug/ml
Aliphatic C12-C16	6.454	9.842	10628641	80.715	200	ug/ml
Aliphatic C16-C21	9.843	13.200	17799805	139.897	300	ug/ml
Aliphatic C21-C28	13.201	16.853	22770349	189.61	400	ug/ml
Aliphatic C28-C40	16.854	21.695	34307411	339.364	600	ug/ml
Aliphatic EPH	3.173	21.695	97023078	834.6		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.934	12.934	3597357	33.31		ug/ml
Aliphatic C9-C28	3.173	16.853	62715667	495.236	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BSD	SDG No.:	P4495
Lab Sample ID:	PB164396BSD	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
FD048605.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.03		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.57		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.3		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	27.3		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	50.7		40 - 140	101%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	51.9		40 - 140	104%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.7		40 - 140	83%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164396BSD	Acq On:	28 Oct 2024 15:08
Client Sample ID:	PB164396BSD	Operator:	YP/AJ
Data file:	FD048605.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	13302714	75.497	200	ug/ml
Aromatic C12-C16	5.813	8.417	22794499	128.584	300	ug/ml
Aromatic C16-C21	8.418	12.677	44933158	274.263	500	ug/ml
Aromatic C21-C36	12.678	18.081	62657164	410.293	800	ug/ml
Aromatic EPH	4.094	18.081	143687535	888.636		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	7098045	41.67		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	7693298	50.69		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	5094272	51.88		ug/ml

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	EX-5-TPH-5MS		SDG No.:	P4495
Lab Sample ID:	P4518-05MS		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	73.9
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
10/25/24 09:05	10/28/24 17:03	PB164396

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	42.9	E	1	0.51	1.35	mg/kg	FC067546.D
Aliphatic C12-C16	Aliphatic C12-C16	268	E	1	0.33	0.90	mg/kg	FC067546.D
Aliphatic C16-C21	Aliphatic C16-C21	304	E	1	0.41	1.35	mg/kg	FC067546.D
Aliphatic C21-C28	Aliphatic C21-C28	105	E	1	1.08	1.80	mg/kg	FC067546.D
Aliphatic C28-C40	Aliphatic C28-C40	126	E	1	2.43	2.70	mg/kg	FC067546.D
Aromatic C10-C12	Aromatic C10-C12	15.4		1	0.41	0.90	mg/kg	FD048607.D
Aromatic C12-C16	Aromatic C12-C16	85.4	E	1	0.46	1.35	mg/kg	FD048607.D
Aromatic C16-C21	Aromatic C16-C21	255	E	1	1.30	2.25	mg/kg	FD048607.D
Aromatic C21-C36	Aromatic C21-C36	90.4	E	1	2.70	3.61	mg/kg	FD048607.D
Total AliphaticEPH	Total AliphaticEPH	846			4.75	8.10	mg/kg	
Total AromaticEPH	Total AromaticEPH	446			4.87	8.11	mg/kg	
Total EPH	Total EPH	1290			9.62	16.2	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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	EX-5-TPH-5MS		SDG No.:	P4495
Lab Sample ID:	P4518-05MS		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	73.9
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
FC067546.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	42.9	E	0.51	1.35	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	268	E	0.33	0.90	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	304	E	0.41	1.35	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	105	E	1.08	1.80	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	126	E	2.43	2.70	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.3		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4518-05MS	Acq On:	28 Oct 2024 17:03
Client Sample ID:	P4518-05MS	Operator:	YP/AJ
Data file:	FC067546.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	3.173	6.453	64451302	475.762	300	ug/ml
Aliphatic C12-C16	6.454	9.842	392480875	2980	200	ug/ml
Aliphatic C16-C21	9.843	13.200	430197990	3380	300	ug/ml
Aliphatic C21-C28	13.201	16.853	141128618	1180	400	ug/ml
Aliphatic C28-C40	16.854	21.695	142127853	1410	600	ug/ml
Aliphatic EPH	3.173	21.695	1170386638	9420		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.937	12.937	4355427	40.33		ug/ml
Aliphatic C9-C28	3.173	16.853	1028258785	8010	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	EX-5-TPH-5MS	SDG No.:	P4495
Lab Sample ID:	P4518-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.9
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
FD048607.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	15.4		0.41	0.90	mg/kg
Aromatic C12-C16	Aromatic C12-C16	85.4	E	0.46	1.35	mg/kg
Aromatic C16-C21	Aromatic C16-C21	255	E	1.30	2.25	mg/kg
Aromatic C21-C36	Aromatic C21-C36	90.4	E	2.70	3.61	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	63.9		40 - 140	128%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	58.4		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.6		40 - 140	71%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4518-05MS	Acq On:	28 Oct 2024 16:27
Client Sample ID:	P4518-05MS	Operator:	YP/AJ
Data file:	FD048607.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	30113921	170.905	200	ug/ml
Aromatic C12-C16	5.813	8.417	167837858	946.774	300	ug/ml
Aromatic C16-C21	8.418	12.677	464910174	2840	500	ug/ml
Aromatic C21-C36	12.678	18.081	153097075	1000	800	ug/ml
Aromatic EPH	4.094	18.081	815959028	4960		ug/ml
2-Bromonaphthalene (SURR)	7.374	7.374	9693084	63.86		ug/ml
2-Fluorobiphenyl (SURR)	8.226	8.226	5737547	58.43		ug/ml
ortho-Terphenyl (SURR)	11.263	11.263	6064486	35.6		ug/ml

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	EX-5-TPH-5MSD		SDG No.:	P4495
Lab Sample ID:	P4518-05MSD		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	73.9
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
Prep Method :				

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 17:39	PB164396

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	42.2	E	1	0.51	1.35	mg/kg	FC067547.D
Aliphatic C12-C16	Aliphatic C12-C16	262	E	1	0.32	0.90	mg/kg	FC067547.D
Aliphatic C16-C21	Aliphatic C16-C21	302	E	1	0.41	1.35	mg/kg	FC067547.D
Aliphatic C21-C28	Aliphatic C21-C28	100	E	1	1.08	1.80	mg/kg	FC067547.D
Aliphatic C28-C40	Aliphatic C28-C40	122	E	1	2.43	2.70	mg/kg	FC067547.D
Aromatic C10-C12	Aromatic C10-C12	15.1		1	0.41	0.90	mg/kg	FD048608.D
Aromatic C12-C16	Aromatic C12-C16	79.5	E	1	0.46	1.35	mg/kg	FD048608.D
Aromatic C16-C21	Aromatic C16-C21	254	E	1	1.30	2.25	mg/kg	FD048608.D
Aromatic C21-C36	Aromatic C21-C36	86.6	E	1	2.70	3.60	mg/kg	FD048608.D
Total AliphaticEPH	Total AliphaticEPH	828			4.75	8.10	mg/kg	
Total AromaticEPH	Total AromaticEPH	435			4.86	8.10	mg/kg	
Total EPH	Total EPH	1260			9.62	16.2	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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	EX-5-TPH-5MSD	SDG No.:	P4495
Lab Sample ID:	P4518-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067547.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	42.2	E	0.51	1.35	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	262	E	0.32	0.90	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	302	E	0.41	1.35	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	100	E	1.08	1.80	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	122	E	2.43	2.70	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.8		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4518-05MSD	Acq On:	28 Oct 2024 17:39
Client Sample ID:	P4518-05MSD	Operator:	YP/AJ
Data file:	FC067547.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	63511167	468.822	300	ug/ml
Aliphatic C12-C16	6.454	9.842	384430343	2920	200	ug/ml
Aliphatic C16-C21	9.843	13.200	427089084	3360	300	ug/ml
Aliphatic C21-C28	13.201	16.853	134471664	1120	400	ug/ml
Aliphatic C28-C40	16.854	21.695	137232553	1360	600	ug/ml
Aliphatic EPH	3.173	21.695	1146734811	9220		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.936	12.936	4079872	37.78		ug/ml
Aliphatic C9-C28	3.173	16.853	1009502258	7860	1200	ug/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	EX-5-TPH-5MSD	SDG No.:	P4495
Lab Sample ID:	P4518-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048608.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	15.1		0.41	0.90	mg/kg
Aromatic C12-C16	Aromatic C12-C16	79.5	E	0.46	1.35	mg/kg
Aromatic C16-C21	Aromatic C16-C21	254	E	1.30	2.25	mg/kg
Aromatic C21-C36	Aromatic C21-C36	86.6	E	2.70	3.60	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	62.5		40 - 140	125%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	57.0		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.3		40 - 140	71%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4518-05MSD	Acq On:	28 Oct 2024 17:03
Client Sample ID:	P4518-05MSD	Operator:	YP/AJ
Data file:	FD048608.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	4.094	5.812	29643175	168.233	200	ug/ml
Aromatic C12-C16	5.813	8.417	156572049	883.223	300	ug/ml
Aromatic C16-C21	8.418	12.677	463474069	2830	500	ug/ml
Aromatic C21-C36	12.678	18.081	146950935	962.268	800	ug/ml
Aromatic EPH	4.094	18.081	796640228	4840		ug/ml
2-Bromonaphthalene (SURRE)	7.374	7.374	9478602	62.45		ug/ml
2-Fluorobiphenyl (SURRE)	8.227	8.227	5592057	56.95		ug/ml
ortho-Terphenyl (SURRE)	11.263	11.263	6010687	35.29		ug/ml



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC102324AL

AreaCount

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	39022992.000	19933185.000	8061570.000	4198329.000	2101198.000	
Aliphatic C12-C16	25467967.000	12990634.000	5208245.000	2702045.000	1358541.000	
Aliphatic C16-C21	36713606.000	18782701.000	7526010.000	3934678.000	1979840.000	
Aliphatic C21-C28	45946180.000	23609090.000	9458827.000	4951672.000	2510279.000	
Aliphatic C28-C40	56250650.000	29316600.000	11954663.000	6283522.000	3289360.000	
Aliphatic EPH	203401395.000	104632210.000	42209315.000	22070246.000	11239218.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	135469.6413332	3.265				
Aliphatic C12-C16	131681.73	2.772				
Aliphatic C16-C21	127235.0919996	3.261				
Aliphatic C21-C28	120090.3975	3.678				
Aliphatic C28-C40	101093.1949996	6.133				
Aliphatic EPH	118799.912222	4.081				

Concentration

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.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	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	130076.640000	132887.900000	134359.500000	139944.300000	140079.866666	
Aliphatic C12-C16	127339.835000	129906.340000	130206.125000	135102.250000	135854.100000	
Aliphatic C16-C21	122378.686666	125218.006666	125433.500000	131155.933333	131989.333333	

Initial Calibration Report for SequenceID : FC102324AL

Aliphatic C21-C28	114865.450000	118045.450000	118235.337500	123791.800000	125513.950000	
Aliphatic C28-C40	93751.083333	97722.000000	99622.191666	104725.366666	109645.333333	
Aliphatic EPH	113000.775000	116258.011111	117248.097222	122612.477777	124880.200000	

Lab Sample ID: 100 PPM ALIPHATIC HC

Acq On: 23 Oct 2024 15:12

Client Sample ID:

Operator: YP/AJ

Data file: FC067506.D

Misc:

Instrument: FID_C

ALS Vial: 11

Dilution Factor: 1

Sample Multiplier: 1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	39022992.000	300.000	ug/ml
Aliphatic C12-C16	6.455	9.845	25467967.000	200.000	ug/ml
Aliphatic C16-C21	9.846	13.203	36713606.000	300.000	ug/ml
Aliphatic C21-C28	13.204	16.858	45946180.000	400.000	ug/ml
Aliphatic C28-C40	16.859	21.704	56250650.000	600.000	ug/ml
Aliphatic EPH	3.174		203401395.000	1800.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F102324AL\
 Data File : FC067506.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 15:12
 Operator : YP/AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 23 17:19:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:19:01 2024
 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			
9) S ortho-Terphenyl (SURR)	11.506	14037783	98.632 ug/ml
Spiked Amount 50.000		Recovery =	197.26%
12) S 1-chlorooctadecane (S...	12.941	10490435	99.221 ug/ml
Spiked Amount 50.000		Recovery =	198.44%
Target Compounds			
1) T n-Nonane (C9)	3.278	12920314	98.296 ug/ml
2) T n-Decane (C10)	4.343	13085907	98.393 ug/ml
3) T A~Naphthalene (C11.7)	5.922	14394132	98.923 ug/ml
4) T n-Dodecane (C12)	6.360	13016771	98.452 ug/ml
5) T A~2-methylnaphthalene...	6.979	13836866	99.334 ug/ml
6) T n-Tetradecane (C14)	8.152	12659193	98.737 ug/ml
7) T n-Hexadecane (C16)	9.751	12808774	99.036 ug/ml
8) T n-Octadecane (C18)	11.193	12738874	98.786 ug/ml
10) T n-Eicosane (C20)	12.499	12105735	98.678 ug/ml
11) T n-Heneicosane (C21)	13.110	11868997	98.838 ug/ml
13) T n-Docosane (C22)	13.695	11751176	98.736 ug/ml
14) T n-Tetracosane (C24)	14.797	11637443	98.776 ug/ml
15) T n-Hexacosane (C26)	15.816	11410589	98.652 ug/ml
16) T n-Octacosane (C28)	16.765	11146972	98.035 ug/ml
17) T n-Tricontane (C30)	17.651	11224678	97.103 ug/ml
18) T n-Dotriacontane (C32)	18.483	10806351	96.387 ug/ml
19) T n-Tetratriacontane (C34)	19.263	9619727	96.453 ug/ml
20) T n-Hexatriacontane (C36)	20.002	8494635	97.259 ug/ml
21) T n-Octatriacontane (C38)	20.726	8112623	97.297 ug/ml
22) T n-Tetracontane (C40)	21.614	7992636	97.524 ug/ml

(f)=RT Delta > 1/2 Window

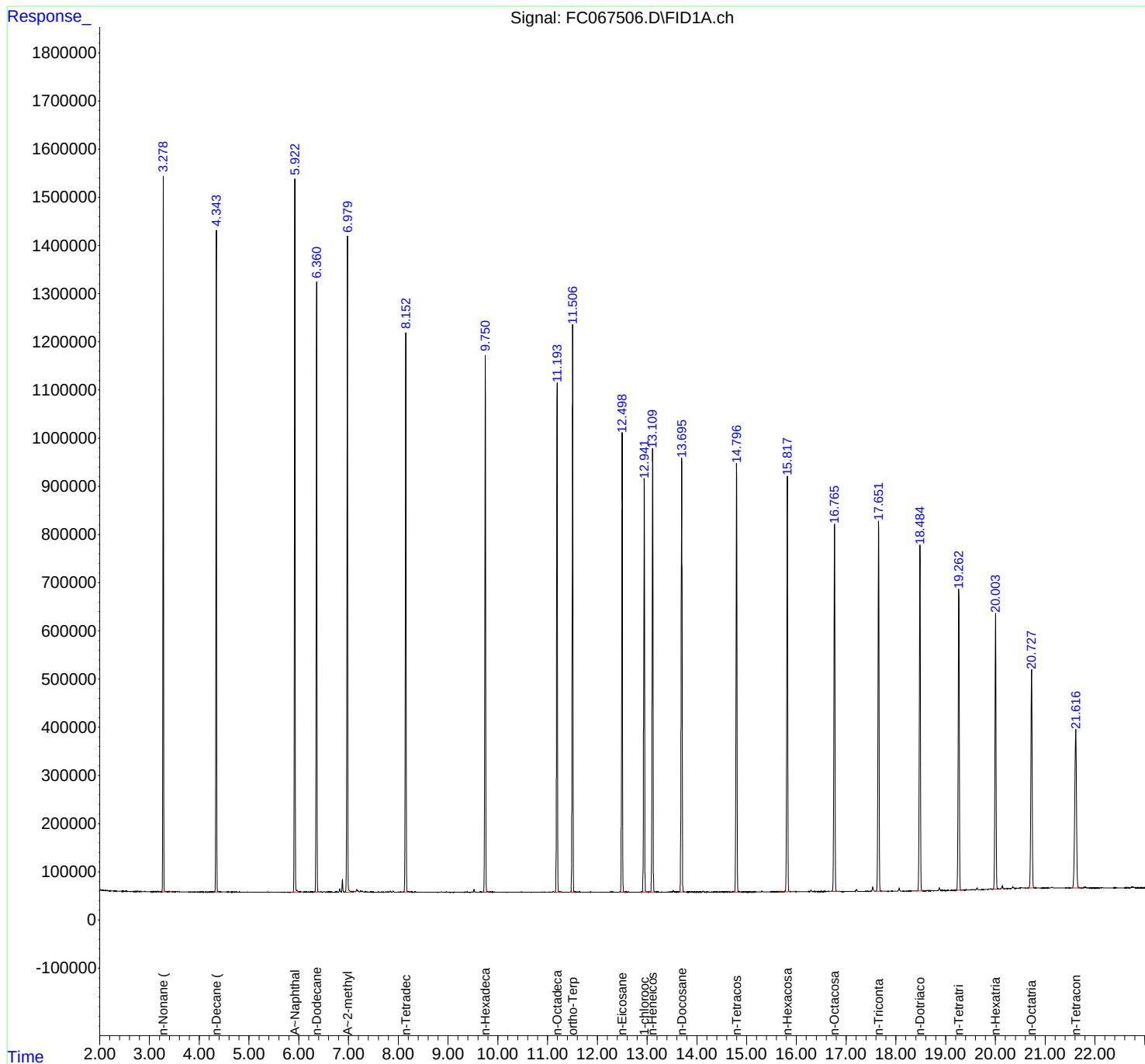
(m)=manual int.

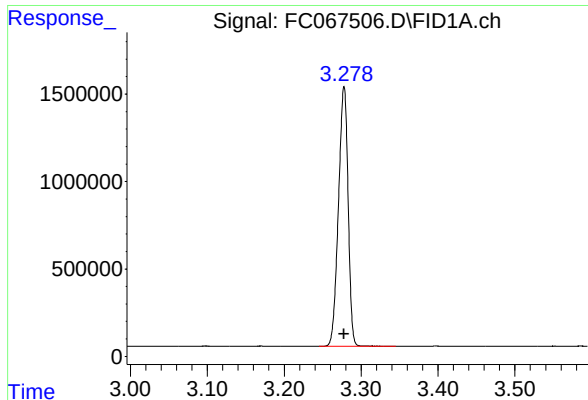
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:19:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

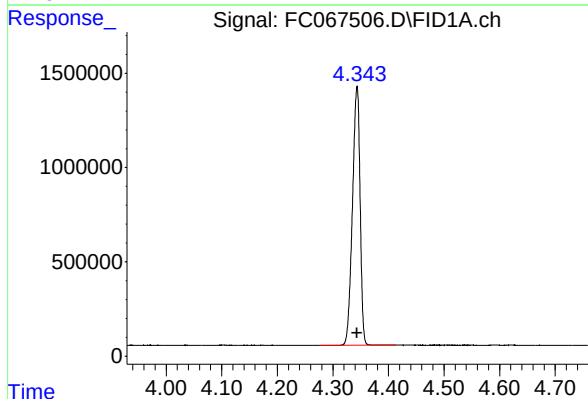




#1 n-Nonane (C9)

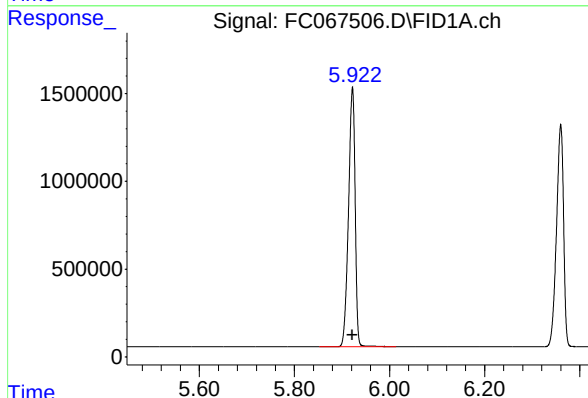
R.T.: 3.278 min
Delta R.T.: 0.000 min
Response: 12920314
Conc: 98.30 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



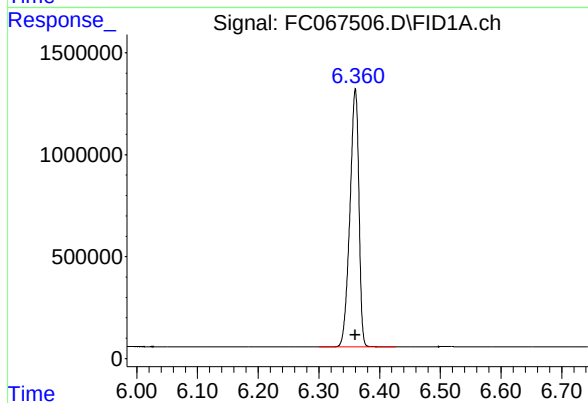
#2 n-Decane (C10)

R.T.: 4.343 min
Delta R.T.: 0.000 min
Response: 13085907
Conc: 98.39 ug/ml



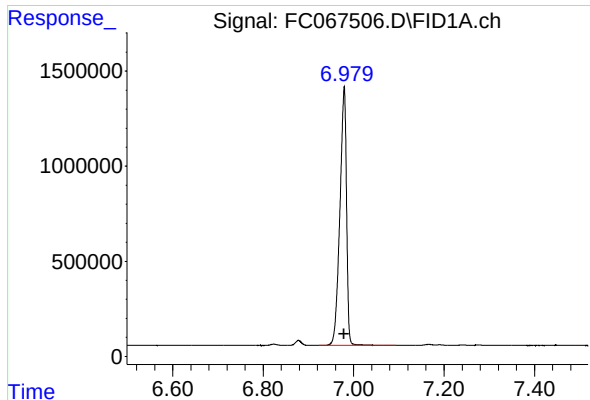
#3 A~Naphthalene (C11.7)

R.T.: 5.922 min
Delta R.T.: 0.000 min
Response: 14394132
Conc: 98.92 ug/ml



#4 n-Dodecane (C12)

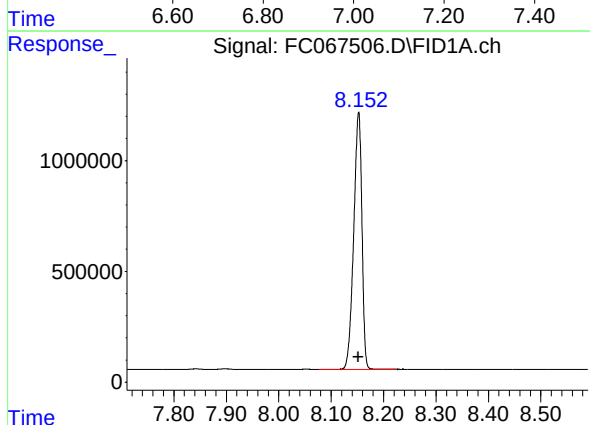
R.T.: 6.360 min
Delta R.T.: 0.000 min
Response: 13016771
Conc: 98.45 ug/ml



#5 A~2-methylnaphthalene (C12.89)

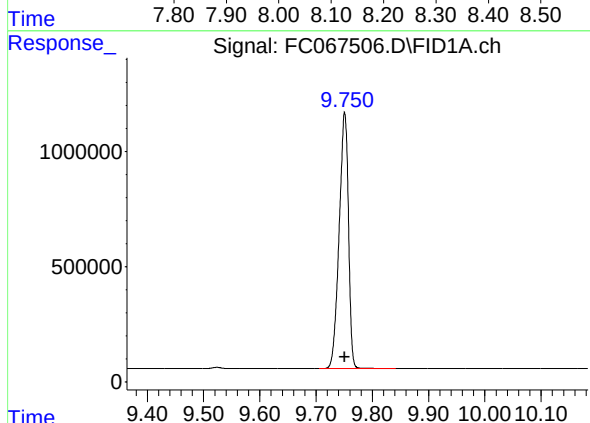
R.T.: 6.979 min
Delta R.T.: 0.000 min
Response: 13836866
Conc: 99.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



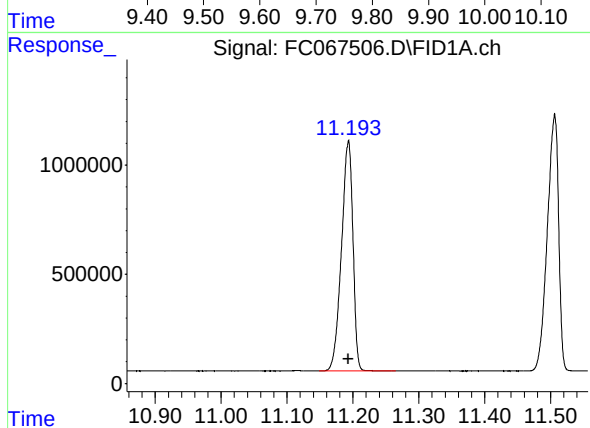
#6 n-Tetradecane (C14)

R.T.: 8.152 min
Delta R.T.: 0.000 min
Response: 12659193
Conc: 98.74 ug/ml



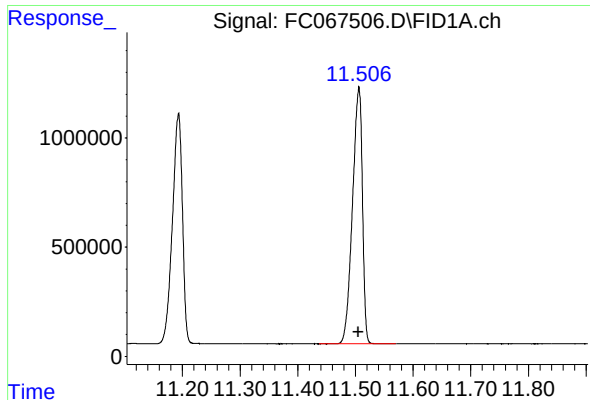
#7 n-Hexadecane (C16)

R.T.: 9.751 min
Delta R.T.: 0.000 min
Response: 12808774
Conc: 99.04 ug/ml



#8 n-Octadecane (C18)

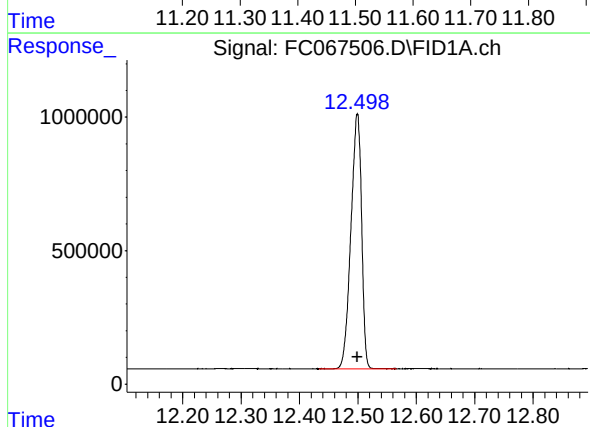
R.T.: 11.193 min
Delta R.T.: 0.000 min
Response: 12738874
Conc: 98.79 ug/ml



#9 ortho-Terphenyl (SURR)

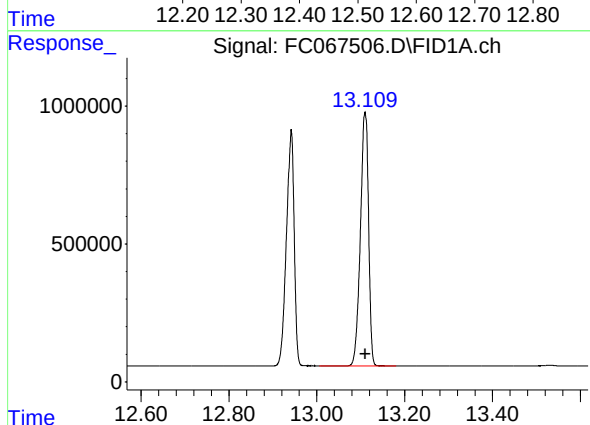
R.T.: 11.506 min
Delta R.T.: 0.000 min
Response: 14037783
Conc: 98.63 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



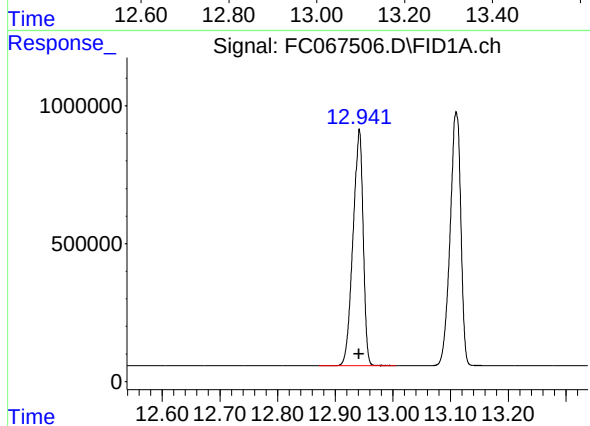
#10 n-Eicosane (C20)

R.T.: 12.499 min
Delta R.T.: 0.000 min
Response: 12105735
Conc: 98.68 ug/ml



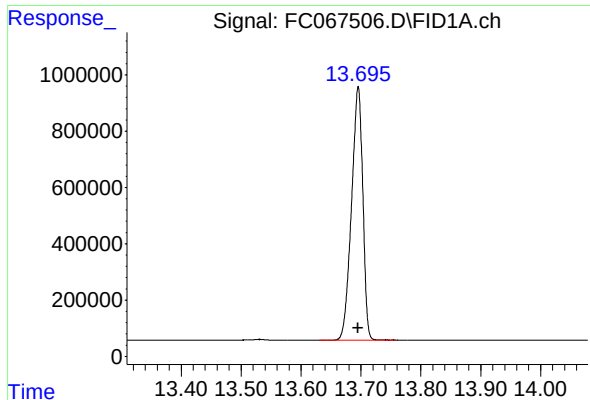
#11 n-Heneicosane (C21)

R.T.: 13.110 min
Delta R.T.: 0.000 min
Response: 11868997
Conc: 98.84 ug/ml



#12 1-chlorooctadecane (SURR)

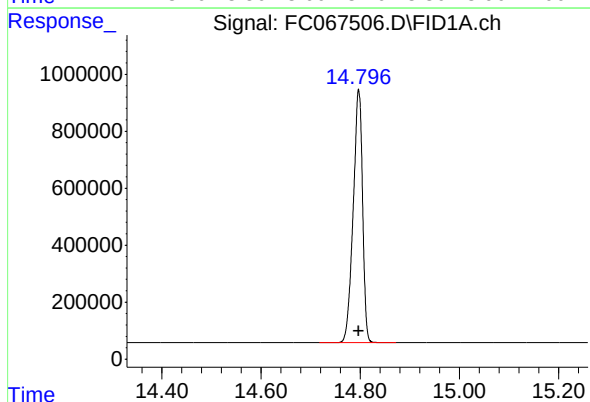
R.T.: 12.941 min
Delta R.T.: 0.000 min
Response: 10490435
Conc: 99.22 ug/ml



#13 n-Docosane (C22)

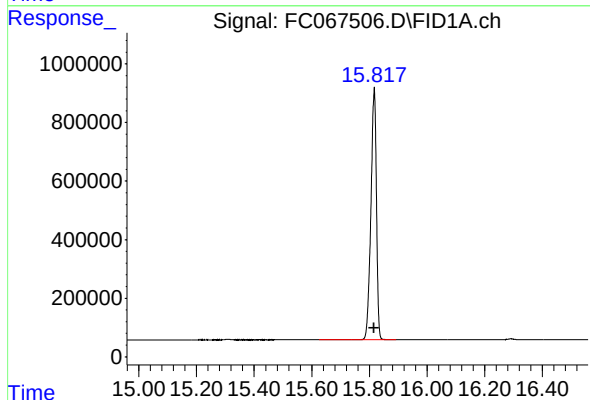
R.T.: 13.695 min
Delta R.T.: 0.000 min
Response: 11751176
Conc: 98.74 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



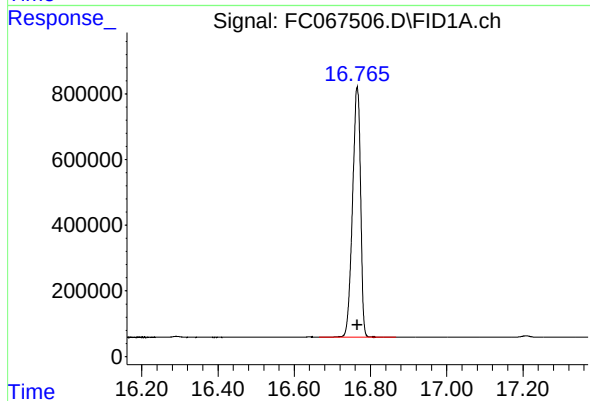
#14 n-Tetracosane (C24)

R.T.: 14.797 min
Delta R.T.: 0.000 min
Response: 11637443
Conc: 98.78 ug/ml



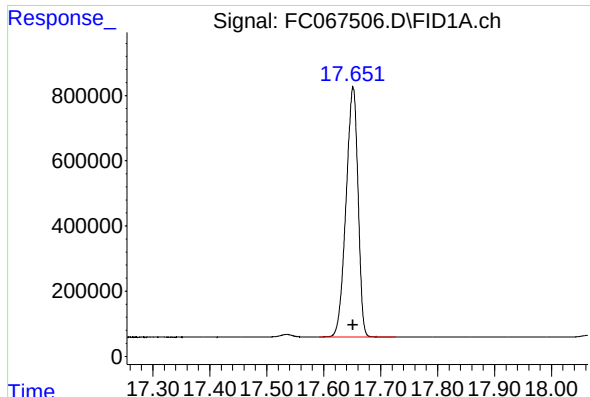
#15 n-Hexacosane (C26)

R.T.: 15.816 min
Delta R.T.: 0.000 min
Response: 11410589
Conc: 98.65 ug/ml



#16 n-Octacosane (C28)

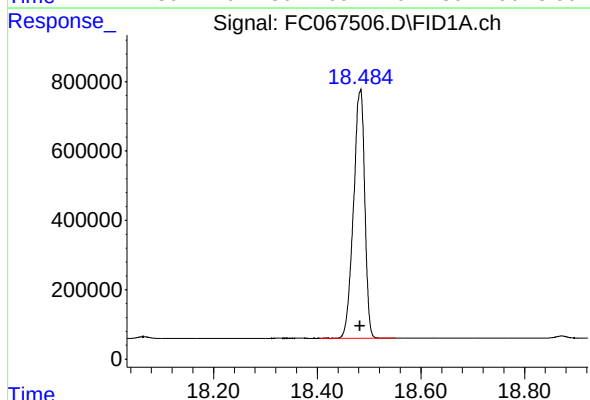
R.T.: 16.765 min
Delta R.T.: 0.000 min
Response: 11146972
Conc: 98.03 ug/ml



#17 n-Tricontane (C30)

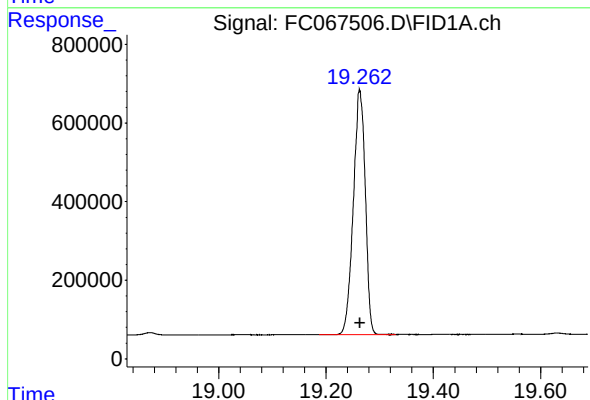
R.T.: 17.651 min
Delta R.T.: 0.000 min
Response: 11224678
Conc: 97.10 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



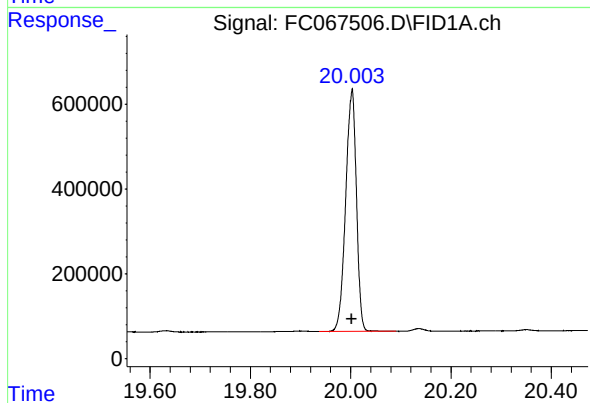
#18 n-Dotriacontane (C32)

R.T.: 18.483 min
Delta R.T.: 0.000 min
Response: 10806351
Conc: 96.39 ug/ml



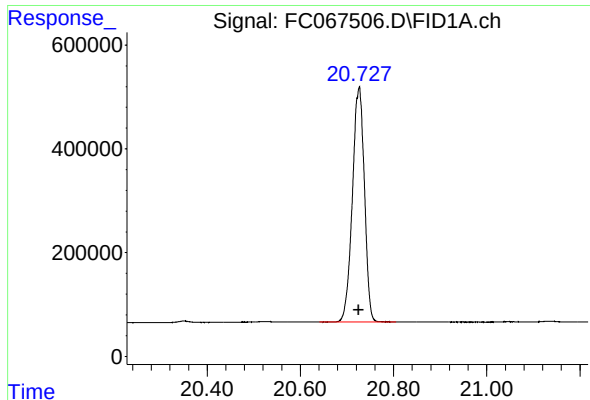
#19 n-Tetratriacontane (C34)

R.T.: 19.263 min
Delta R.T.: 0.000 min
Response: 9619727
Conc: 96.45 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.002 min
Delta R.T.: 0.000 min
Response: 8494635
Conc: 97.26 ug/ml



#21 n-Octatriacontane (C38)

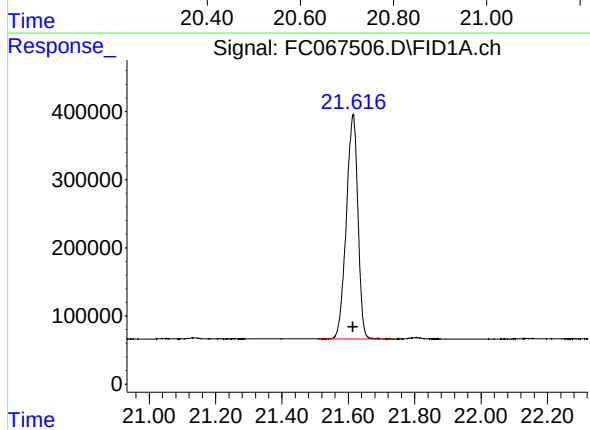
R.T.: 20.726 min
Delta R.T.: 0.000 min
Response: 8112623
Conc: 97.30 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.614 min
Delta R.T.: 0.000 min
Response: 7992636
Conc: 97.52 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.278	3.245	3.345	BB	1482982	12920314	89.76%	5.044%
2	4.343	4.275	4.414	BB	1378444	13085907	90.91%	5.108%
3	5.922	5.852	6.014	BB	1478546	14394132	100.00%	5.619%
4	6.360	6.300	6.427	BB	1268307	13016771	90.43%	5.081%
5	6.979	6.924	7.094	BV	1345672	13836866	96.13%	5.402%
6	8.152	8.077	8.224	BB	1158926	12659193	87.95%	4.942%
7	9.751	9.705	9.842	BB	1114390	12808774	88.99%	5.000%
8	11.193	11.149	11.265	BV	1059950	12738874	88.50%	4.973%
9	11.506	11.437	11.570	BB	1165644	14037783	97.52%	5.480%
10	12.499	12.434	12.565	BB	956464	12105735	84.10%	4.726%
11	12.941	12.872	13.005	BB	861029	10490435	72.88%	4.095%
12	13.110	13.005	13.180	BB	919632	11868997	82.46%	4.633%
13	13.695	13.630	13.759	BB	900624	11751176	81.64%	4.587%
14	14.797	14.717	14.872	BB	888415	11637443	80.85%	4.543%
15	15.816	15.625	15.892	BB	863938	11410589	79.27%	4.454%
16	16.765	16.665	16.867	BB	761325	11146972	77.44%	4.352%
17	17.651	17.592	17.727	BB	765890	11224678	77.98%	4.382%
18	18.483	18.404	18.552	BB	712666	10806351	75.07%	4.219%
19	19.263	19.187	19.330	BB	619243	9619727	66.83%	3.755%
20	20.002	19.937	20.090	BB	565569	8494635	59.01%	3.316%
21	20.726	20.640	20.805	BB	451489	8112623	56.36%	3.167%
22	21.614	21.512	21.744	BB	329592	7992636	55.53%	3.120%
Sum of corrected areas:						256160611		

Aliphatic EPH 102324.M Wed Oct 23 18:20:49 2024

Lab Sample ID:	50 PPM ALIPHATIC HC 9	Acq On:	23 Oct 2024 15:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067507.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	19933185.000	150.000	ug/ml
Aliphatic C12-C16	6.455	9.845	12990634.000	100.000	ug/ml
Aliphatic C16-C21	9.846	13.203	18782701.000	150.000	ug/ml
Aliphatic C21-C28	13.204	16.858	23609090.000	200.000	ug/ml
Aliphatic C28-C40	16.859	21.704	29316600.000	300.000	ug/ml
Aliphatic EPH	3.174		104632210.000	900.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F102324AL\
 Data File : FC067507.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 15:48
 Operator : YP/AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 23 17:21:14 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:19:01 2024
 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			
9) S ortho-Terphenyl (SURR)	11.500	7186867	50.330 ug/ml
Spiked Amount 50.000		Recovery =	100.66%
12) S 1-chlorooctadecane (S...	12.937	5350584	50.403 ug/ml
Spiked Amount 50.000		Recovery =	100.81%
Target Compounds			
1) T n-Nonane (C9)	3.275	6596270	50.122 ug/ml
2) T n-Decane (C10)	4.340	6686022	50.181 ug/ml
3) T A~Naphthalene (C11.7)	5.918	7350672	50.344 ug/ml
4) T n-Dodecane (C12)	6.356	6650893	50.202 ug/ml
5) T A~2-methylnaphthalene...	6.974	7049073	50.402 ug/ml
6) T n-Tetradecane (C14)	8.149	6466785	50.292 ug/ml
7) T n-Hexadecane (C16)	9.747	6523849	50.293 ug/ml
8) T n-Octadecane (C18)	11.188	6511575	50.329 ug/ml
10) T n-Eicosane (C20)	12.495	6199533	50.355 ug/ml
11) T n-Heneicosane (C21)	13.105	6071593	50.372 ug/ml
13) T n-Docosane (C22)	13.691	6022373	50.399 ug/ml
14) T n-Tetracosane (C24)	14.793	5967985	50.435 ug/ml
15) T n-Hexacosane (C26)	15.812	5860085	50.441 ug/ml
16) T n-Octacosane (C28)	16.761	5758647	50.429 ug/ml
17) T n-Tricontane (C30)	17.647	5830292	50.290 ug/ml
18) T n-Dotriacontane (C32)	18.477	5634053	50.168 ug/ml
19) T n-Tetratriacontane (C34)	19.260	5024380	50.251 ug/ml
20) T n-Hexatriacontane (C36)	19.998	4430530	50.483 ug/ml
21) T n-Octatriacontane (C38)	20.720	4230730	50.491 ug/ml
22) T n-Tetracontane (C40)	21.606	4166615	50.557 ug/ml

(f)=RT Delta > 1/2 Window

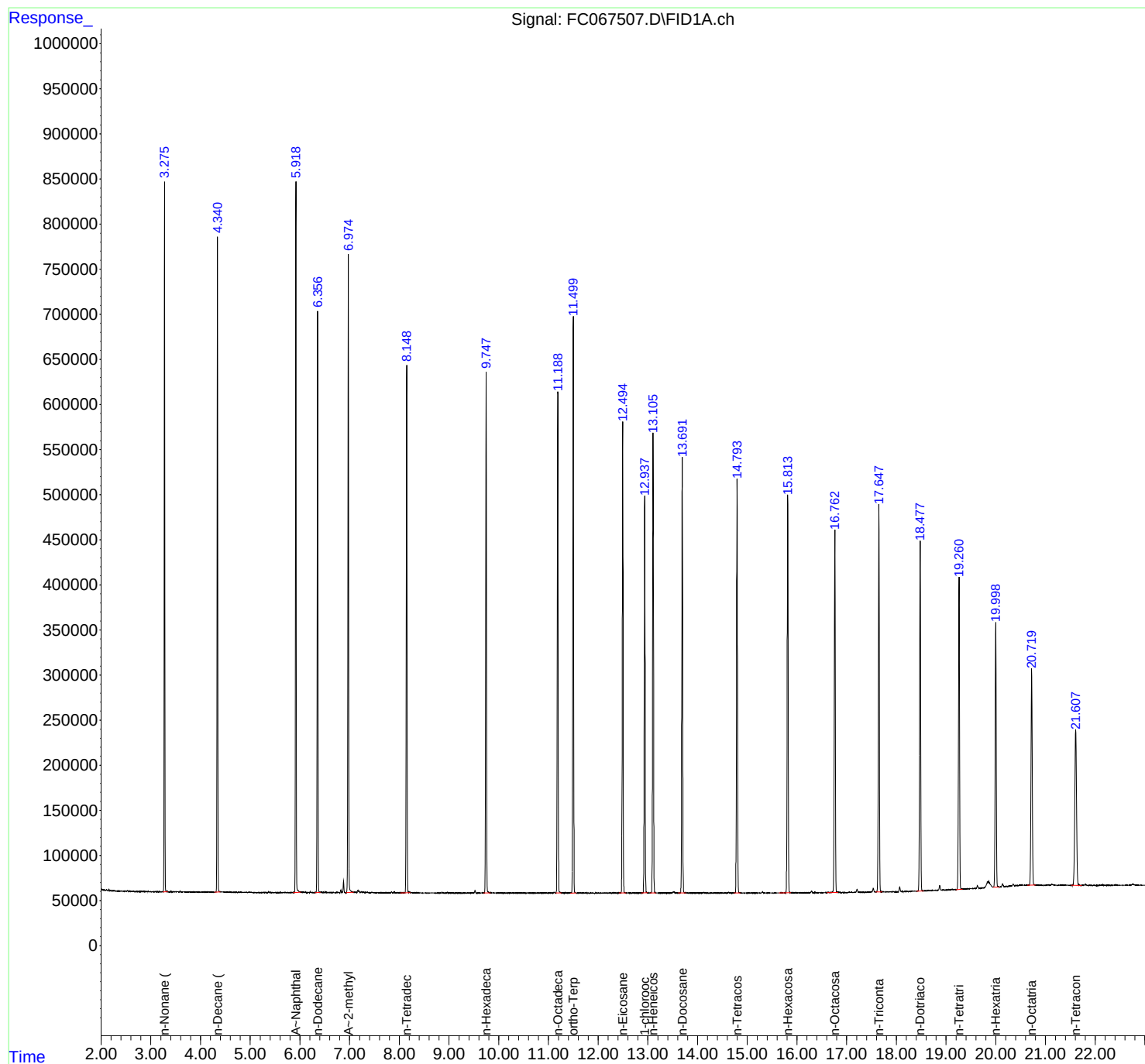
(m)=manual int.

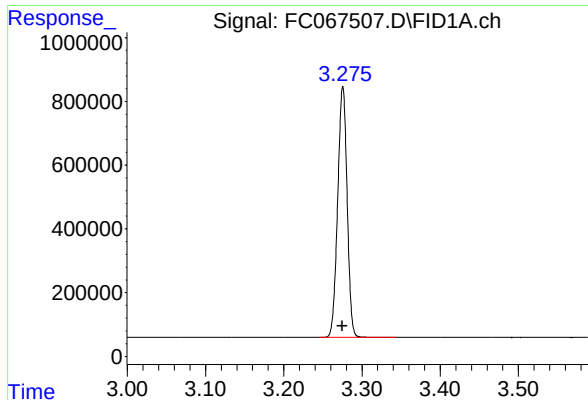
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:21:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

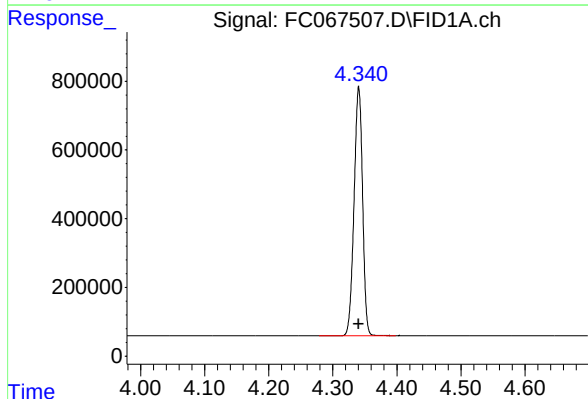




#1 n-Nonane (C9)

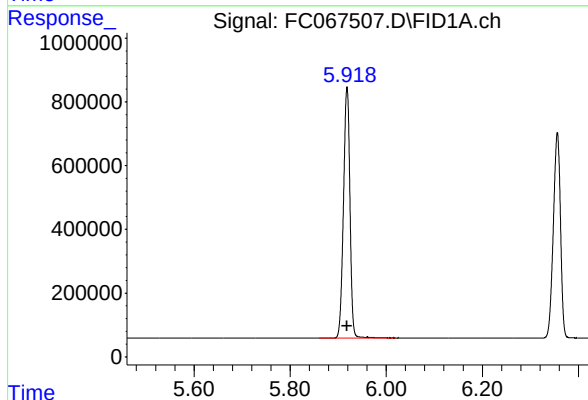
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 6596270
Conc: 50.12 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



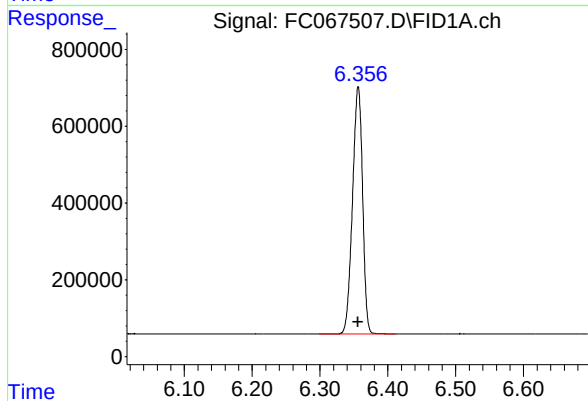
#2 n-Decane (C10)

R.T.: 4.340 min
Delta R.T.: 0.000 min
Response: 6686022
Conc: 50.18 ug/ml



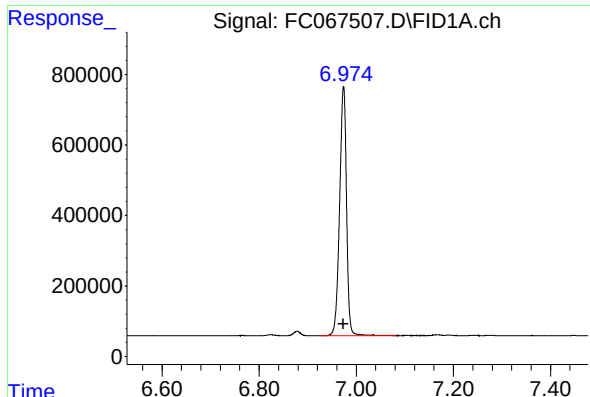
#3 A~Naphthalene (C11.7)

R.T.: 5.918 min
Delta R.T.: 0.000 min
Response: 7350672
Conc: 50.34 ug/ml



#4 n-Dodecane (C12)

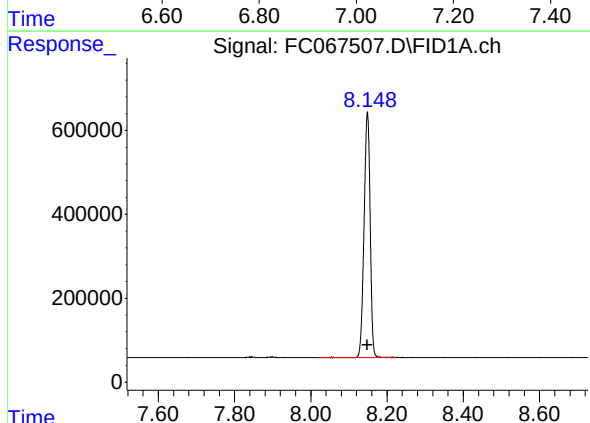
R.T.: 6.356 min
Delta R.T.: 0.000 min
Response: 6650893
Conc: 50.20 ug/ml



#5 A~2-methylnaphthalene (C12.89)

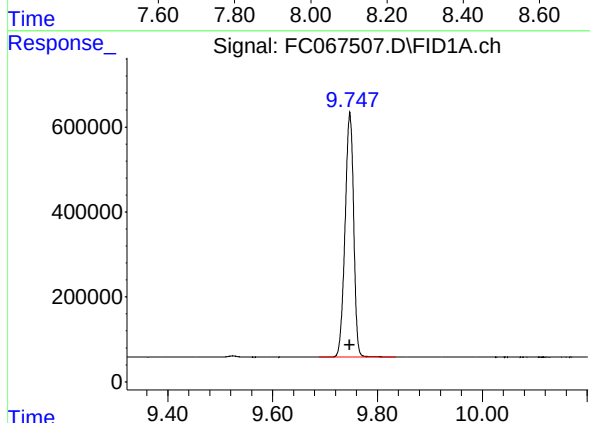
R.T.: 6.974 min
Delta R.T.: 0.000 min
Response: 7049073
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



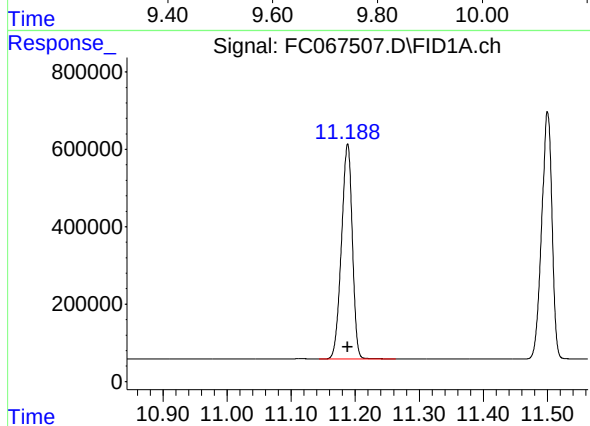
#6 n-Tetradecane (C14)

R.T.: 8.149 min
Delta R.T.: 0.000 min
Response: 6466785
Conc: 50.29 ug/ml



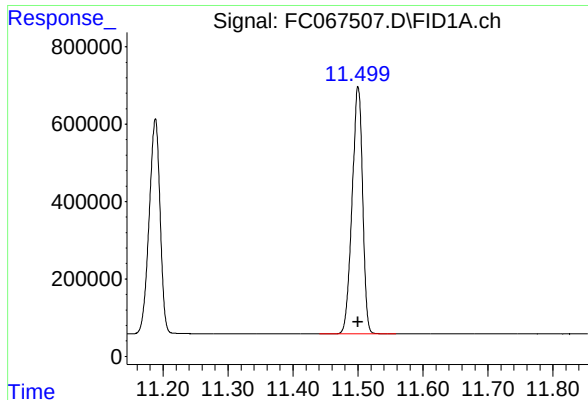
#7 n-Hexadecane (C16)

R.T.: 9.747 min
Delta R.T.: 0.000 min
Response: 6523849
Conc: 50.29 ug/ml



#8 n-Octadecane (C18)

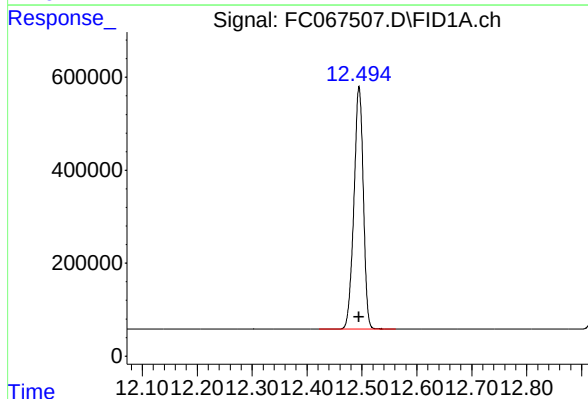
R.T.: 11.188 min
Delta R.T.: 0.000 min
Response: 6511575
Conc: 50.33 ug/ml



#9 ortho-Terphenyl (SURR)

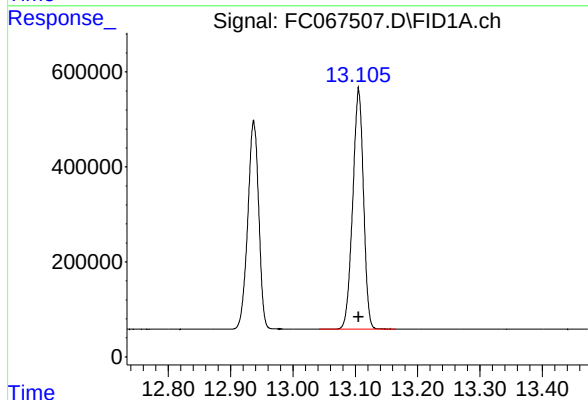
R.T.: 11.500 min
Delta R.T.: 0.000 min
Response: 7186867
Conc: 50.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



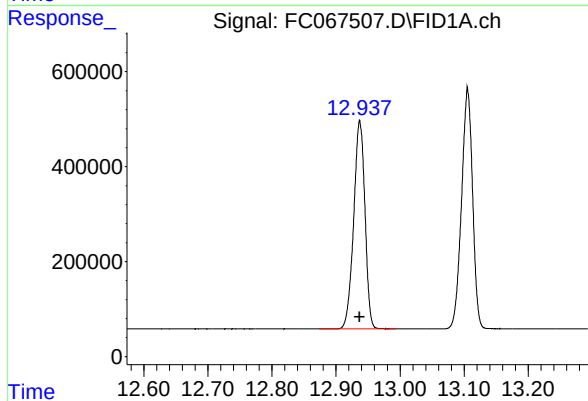
#10 n-Eicosane (C20)

R.T.: 12.495 min
Delta R.T.: 0.000 min
Response: 6199533
Conc: 50.36 ug/ml



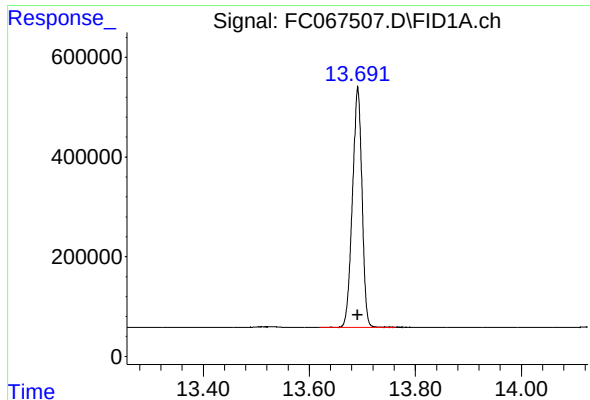
#11 n-Heneicosane (C21)

R.T.: 13.105 min
Delta R.T.: 0.000 min
Response: 6071593
Conc: 50.37 ug/ml



#12 1-chlorooctadecane (SURR)

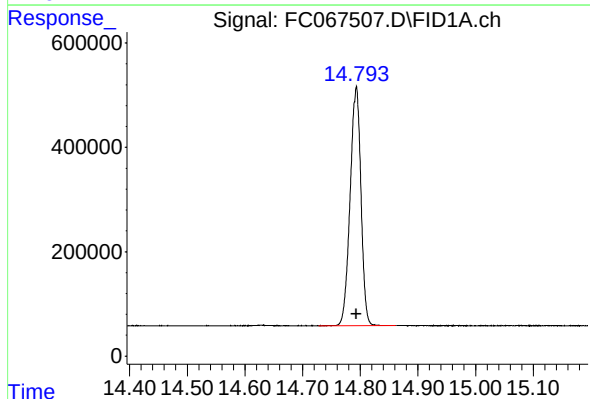
R.T.: 12.937 min
Delta R.T.: 0.000 min
Response: 5350584
Conc: 50.40 ug/ml



#13 n-Docosane (C22)

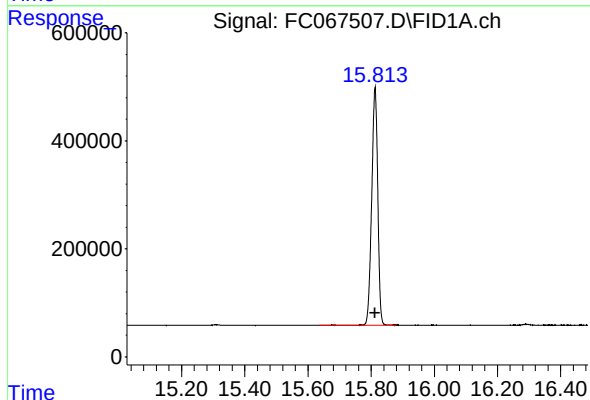
R.T.: 13.691 min
Delta R.T.: 0.000 min
Response: 6022373
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



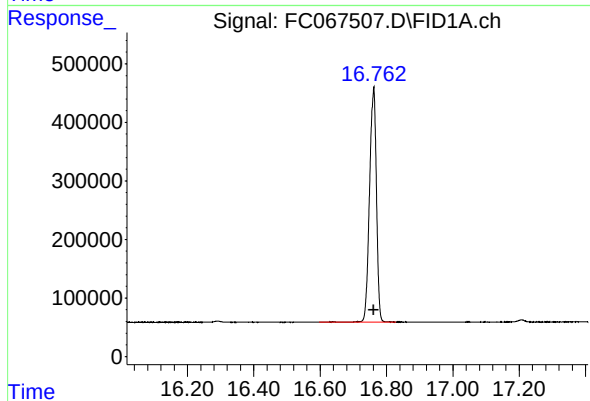
#14 n-Tetracosane (C24)

R.T.: 14.793 min
Delta R.T.: 0.000 min
Response: 5967985
Conc: 50.43 ug/ml



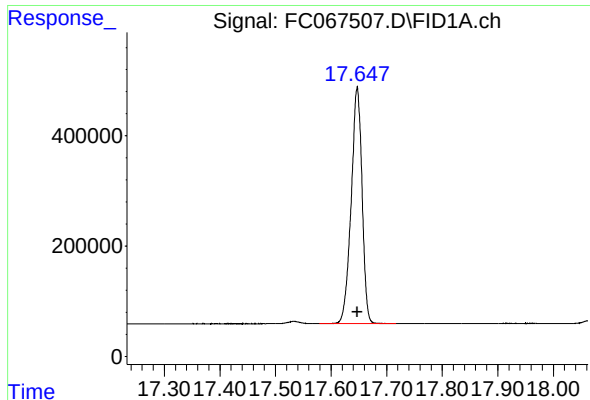
#15 n-Hexacosane (C26)

R.T.: 15.812 min
Delta R.T.: 0.000 min
Response: 5860085
Conc: 50.44 ug/ml



#16 n-Octacosane (C28)

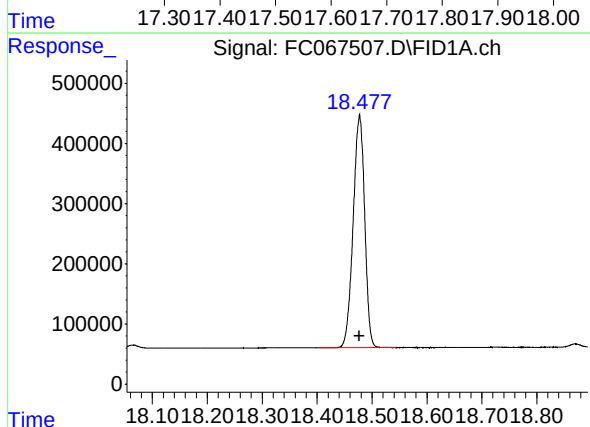
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 5758647
Conc: 50.43 ug/ml



#17 n-Tricontane (C30)

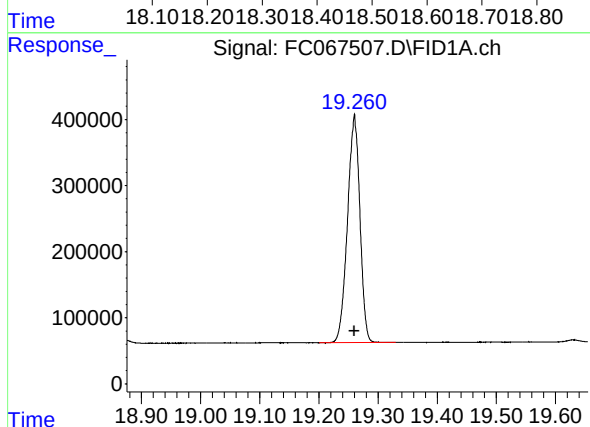
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 5830292
Conc: 50.29 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



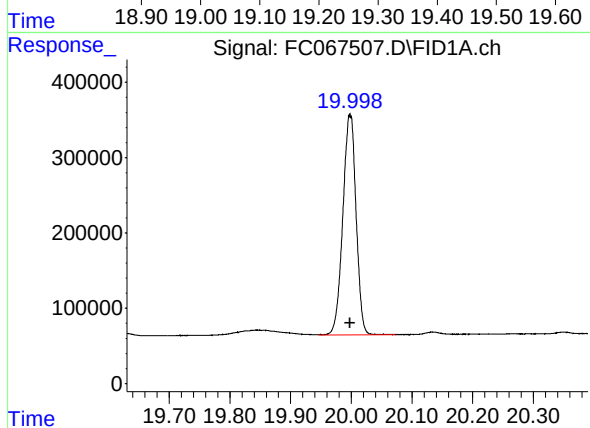
#18 n-Dotriacontane (C32)

R.T.: 18.477 min
Delta R.T.: 0.000 min
Response: 5634053
Conc: 50.17 ug/ml



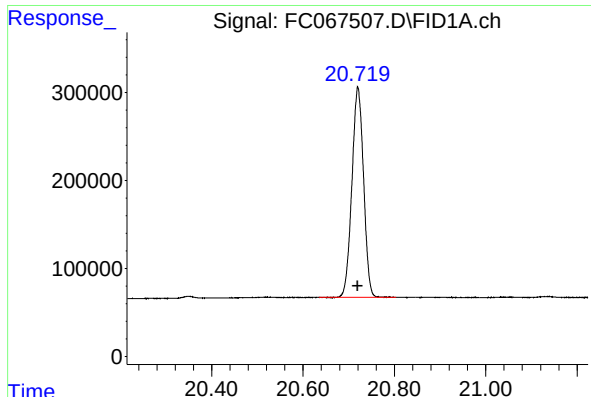
#19 n-Tetratriacontane (C34)

R.T.: 19.260 min
Delta R.T.: 0.000 min
Response: 5024380
Conc: 50.25 ug/ml



#20 n-Hexatriacontane (C36)

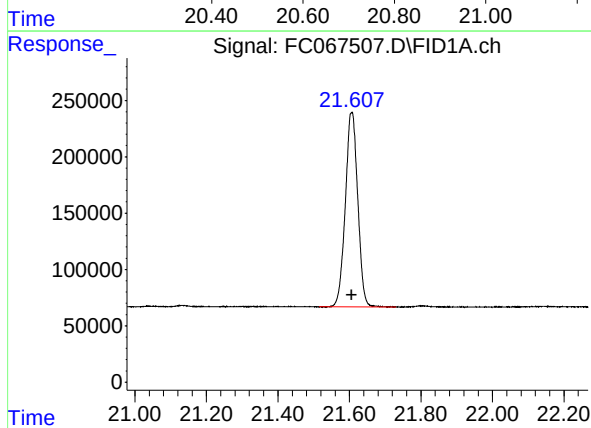
R.T.: 19.998 min
Delta R.T.: 0.000 min
Response: 4430530
Conc: 50.48 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.720 min
Delta R.T.: 0.000 min
Response: 4230730
Conc: 50.49 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.606 min
Delta R.T.: 0.000 min
Response: 4166615
Conc: 50.56 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.275	3.245	3.343	BB	787475	6596270	89.74%	5.014%
2	4.340	4.278	4.398	BB	725048	6686022	90.96%	5.082%
3	5.918	5.860	6.020	BB	788107	7350672	100.00%	5.587%
4	6.356	6.298	6.412	BB	647440	6650893	90.48%	5.055%
5	6.974	6.923	7.082	BB	708667	7049073	95.90%	5.358%
6	8.149	8.022	8.223	BB	584678	6466785	87.98%	4.915%
7	9.747	9.688	9.835	BB	574143	6523849	88.75%	4.958%
8	11.188	11.143	11.263	BB	557552	6511575	88.58%	4.949%
9	11.500	11.440	11.558	BB	638489	7186867	97.77%	5.462%
10	12.495	12.422	12.562	BB	521546	6199533	84.34%	4.712%
11	12.937	12.873	12.993	BB	438883	5350584	72.79%	4.067%
12	13.105	13.042	13.165	BB	507791	6071593	82.60%	4.615%
13	13.691	13.618	13.763	BB	482823	6022373	81.93%	4.577%
14	14.793	14.728	14.862	BB	460497	5967985	81.19%	4.536%
15	15.812	15.635	15.878	BB	438034	5860085	79.72%	4.454%
16	16.761	16.597	16.828	BB	395517	5758647	78.34%	4.377%
17	17.647	17.578	17.717	BB	427620	5830292	79.32%	4.431%
18	18.477	18.403	18.543	BB	385150	5634053	76.65%	4.282%
19	19.260	19.200	19.330	BB	345032	5024380	68.35%	3.819%
20	19.998	19.947	20.073	VB	291698	4430530	60.27%	3.367%
21	20.720	20.635	20.803	BB	239127	4230730	57.56%	3.216%
22	21.606	21.515	21.730	BB	172709	4166615	56.68%	3.167%
Sum of corrected areas:						131569405		

Aliphatic EPH 102324.M Wed Oct 23 18:21:16 2024

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	23 Oct 2024 16:25
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067508.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	8061570.000	60.000	ug/ml
Aliphatic C12-C16	6.455	9.845	5208245.000	40.000	ug/ml
Aliphatic C16-C21	9.846	13.203	7526010.000	60.000	ug/ml
Aliphatic C21-C28	13.204	16.858	9458827.000	80.000	ug/ml
Aliphatic C28-C40	16.859	21.704	11954663.000	120.000	ug/ml
Aliphatic EPH	3.174		42209315.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067508.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 16:25
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 23 17:17:15 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:16:59 2024
 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			
9) S ortho-Terphenyl (SURR)	11.496	2885453	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	12.935	2131037	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.275	2673666	20.000 ug/ml
2) T n-Decane (C10)	4.339	2702691	20.000 ug/ml
3) T A~Naphthalene (C11.7)	5.916	2941492	20.000 ug/ml
4) T n-Dodecane (C12)	6.354	2685213	20.000 ug/ml
5) T A~2-methylnaphthalene...	6.971	2804469	20.000 ug/ml
6) T n-Tetradecane (C14)	8.146	2596600	20.000 ug/ml
7) T n-Hexadecane (C16)	9.745	2611645	20.000 ug/ml
8) T n-Octadecane (C18)	11.185	2610385	20.000 ug/ml
10) T n-Eicosane (C20)	12.492	2486010	20.000 ug/ml
11) T n-Heneicosane (C21)	13.103	2429615	20.000 ug/ml
13) T n-Docosane (C22)	13.688	2410406	20.000 ug/ml
14) T n-Tetracosane (C24)	14.790	2385181	20.000 ug/ml
15) T n-Hexacosane (C26)	15.809	2344463	20.000 ug/ml
16) T n-Octacosane (C28)	16.757	2318777	20.000 ug/ml
17) T n-Tricontane (C30)	17.644	2378909	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.475	2323289	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.258	2065430	20.000 ug/ml
20) T n-Hexatriacontane (C36)	19.995	1794670	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.718	1712685	20.000 ug/ml
22) T n-Tetracontane (C40)	21.604	1679680	20.000 ug/ml

(f)=RT Delta > 1/2 Window

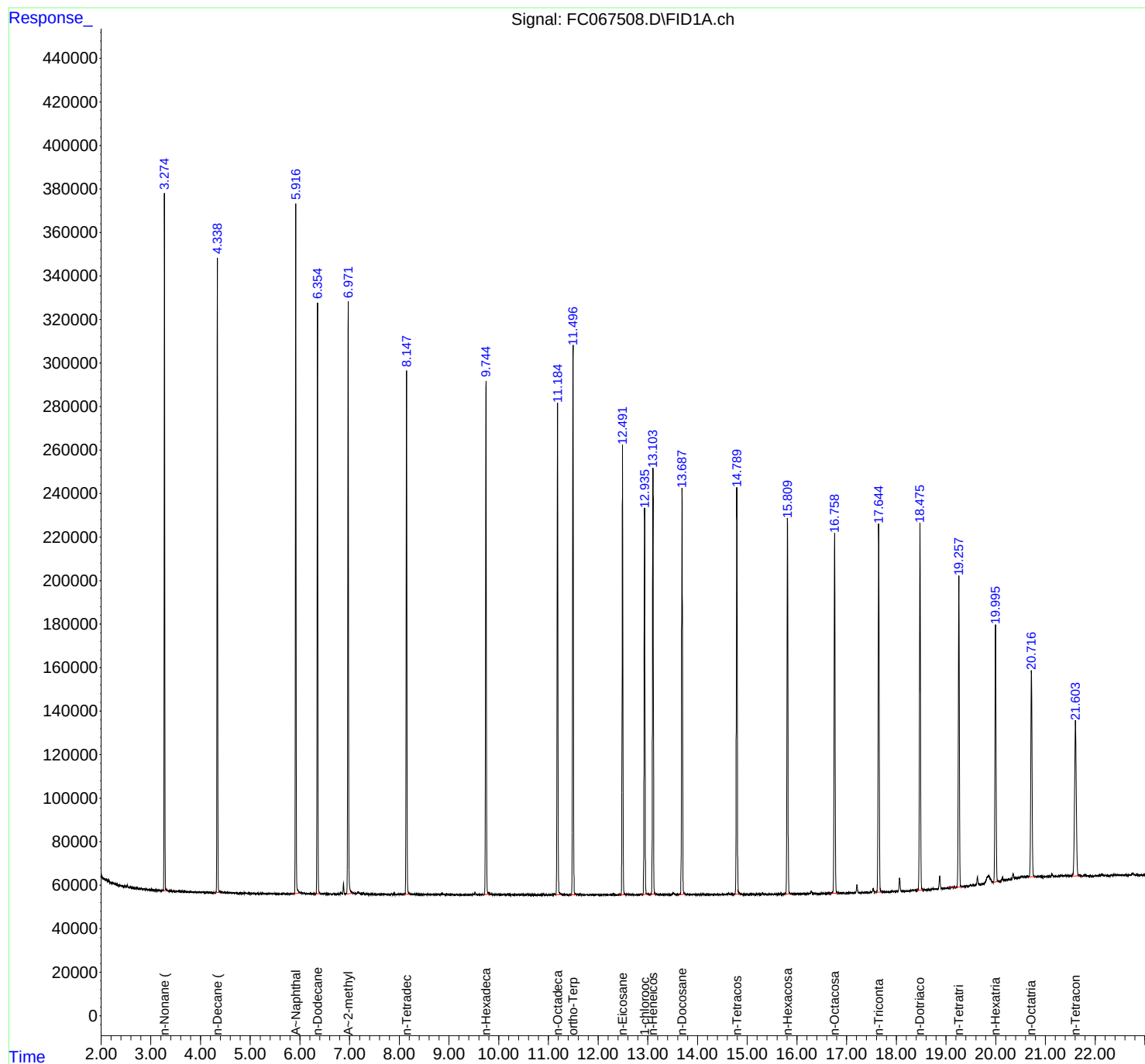
(m)=manual int.

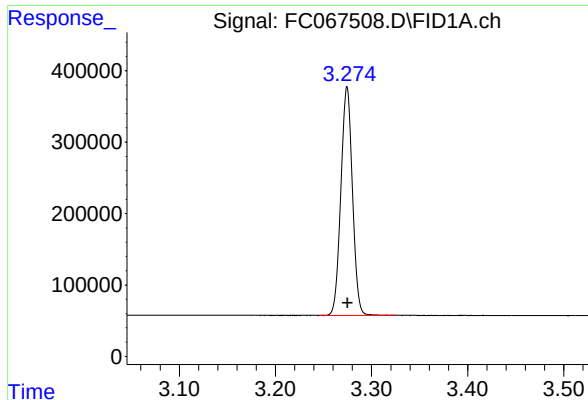
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:16:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

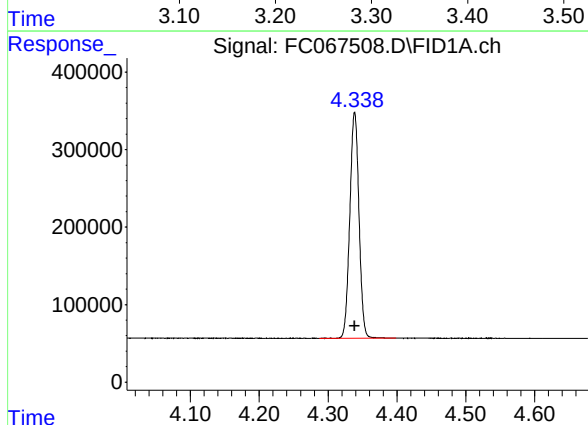




#1 n-Nonane (C9)

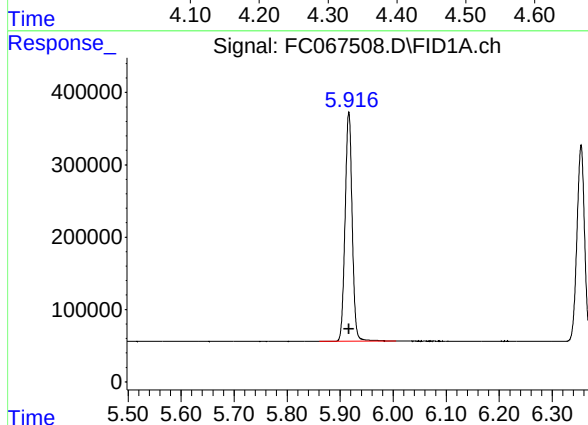
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 2673666
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



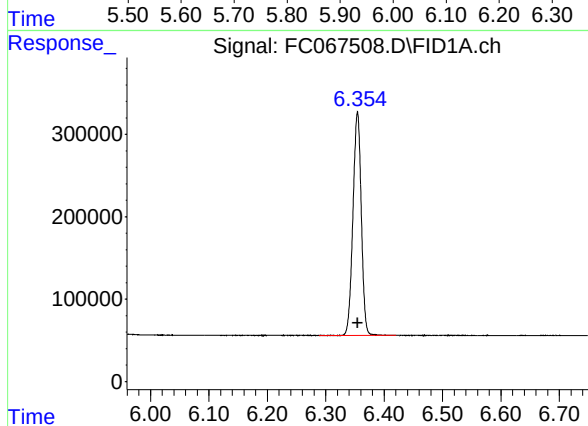
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2702691
Conc: 20.00 ug/ml



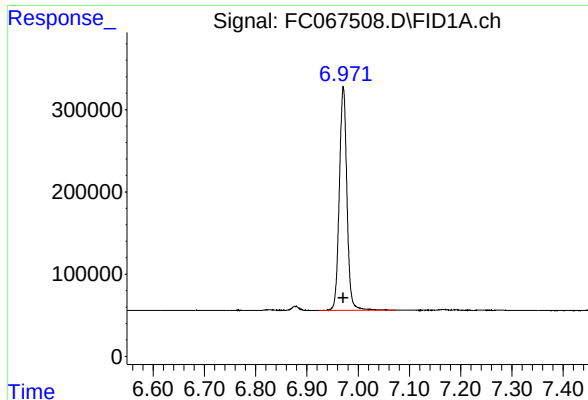
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 2941492
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

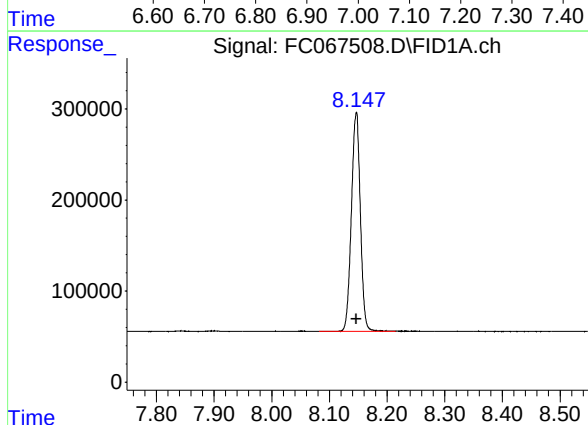
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2685213
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

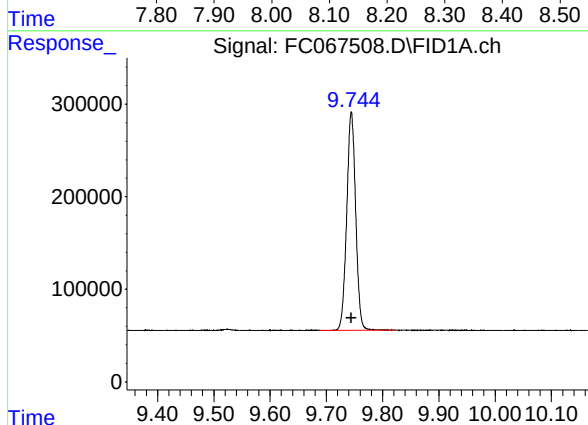
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2804469
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



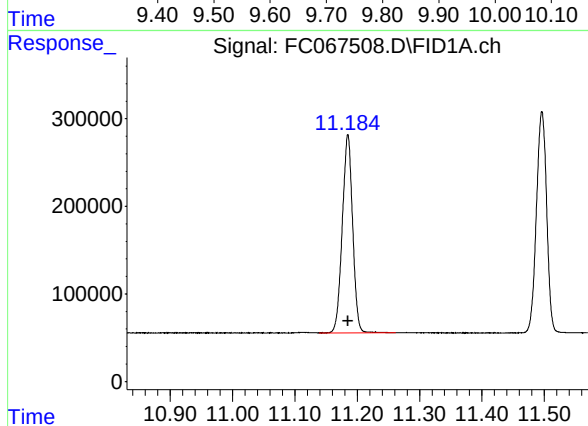
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 2596600
Conc: 20.00 ug/ml



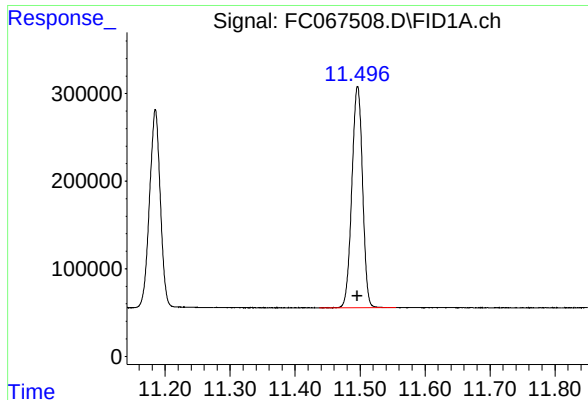
#7 n-Hexadecane (C16)

R.T.: 9.745 min
Delta R.T.: 0.000 min
Response: 2611645
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

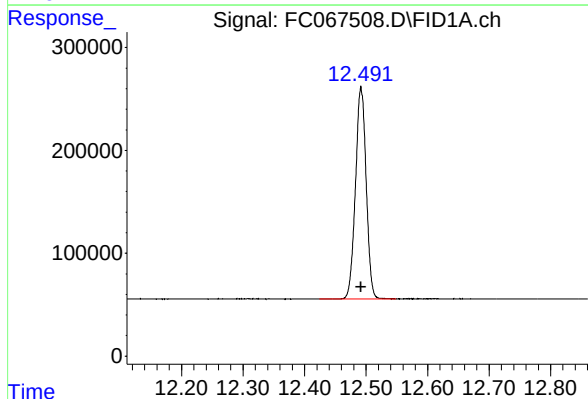
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2610385
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

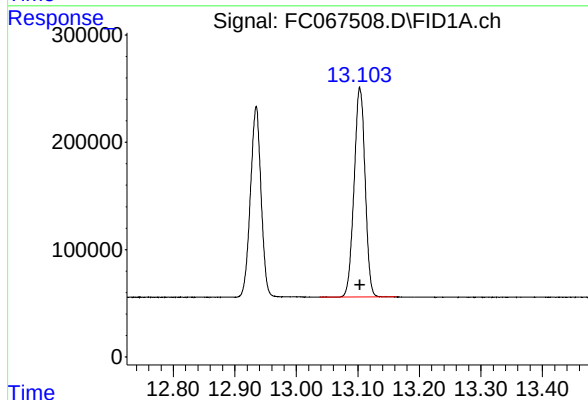
R.T.: 11.496 min
Delta R.T.: 0.000 min
Response: 2885453
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



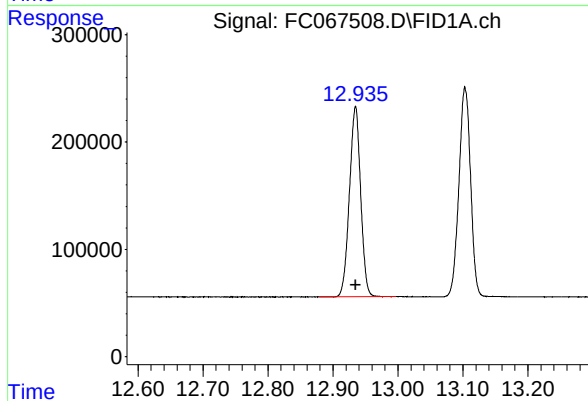
#10 n-Eicosane (C20)

R.T.: 12.492 min
Delta R.T.: 0.000 min
Response: 2486010
Conc: 20.00 ug/ml



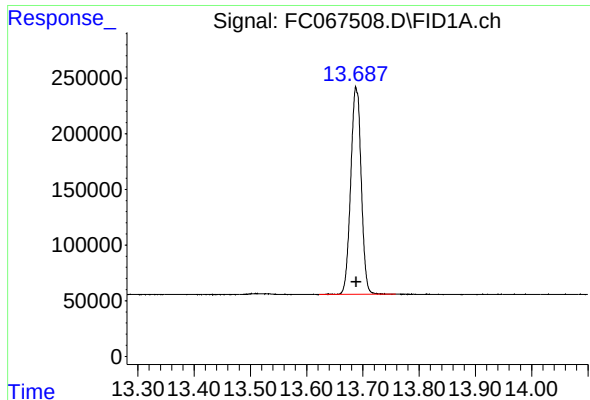
#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 2429615
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

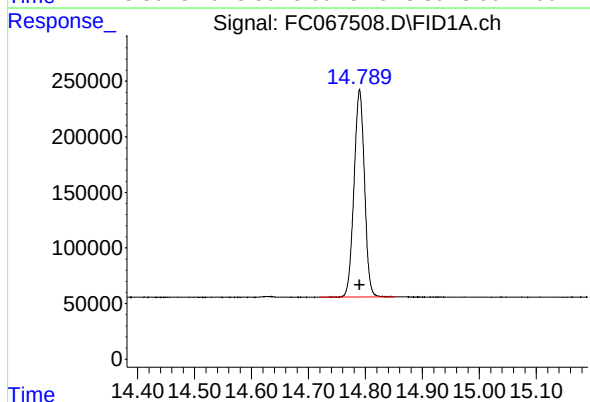
R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 2131037
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

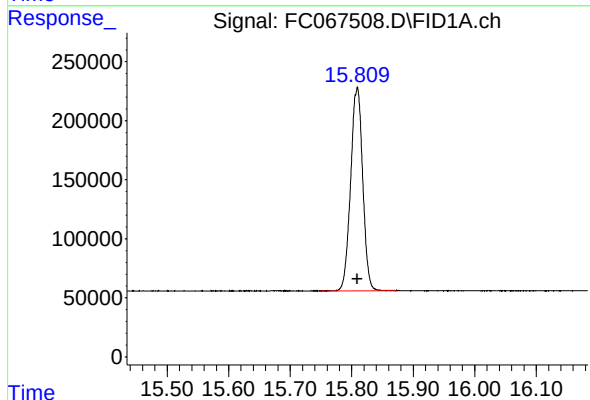
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2410406
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



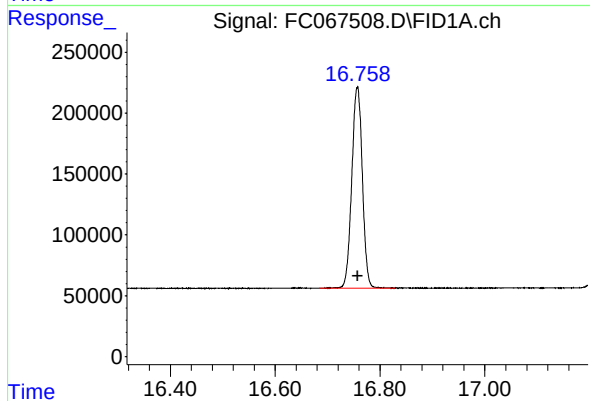
#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 2385181
Conc: 20.00 ug/ml



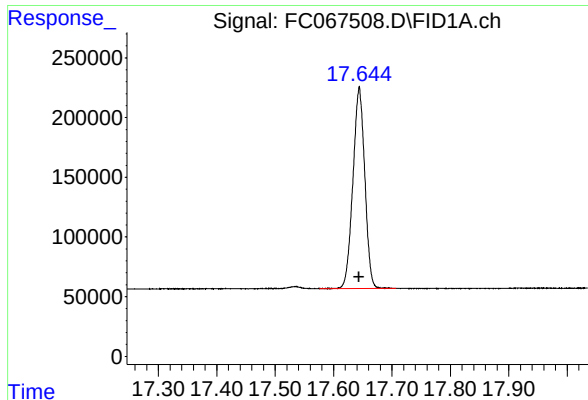
#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.000 min
Response: 2344463
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

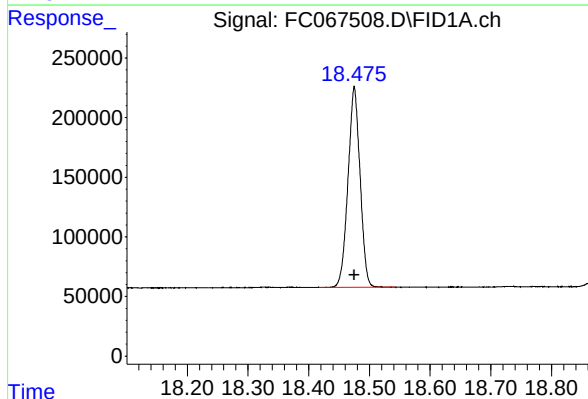
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2318777
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

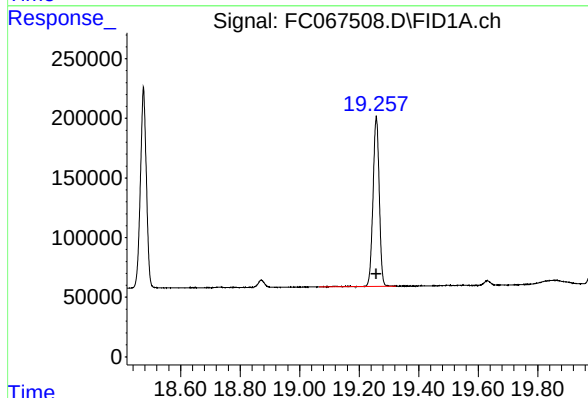
R.T.: 17.644 min
Delta R.T.: 0.000 min
Response: 2378909
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



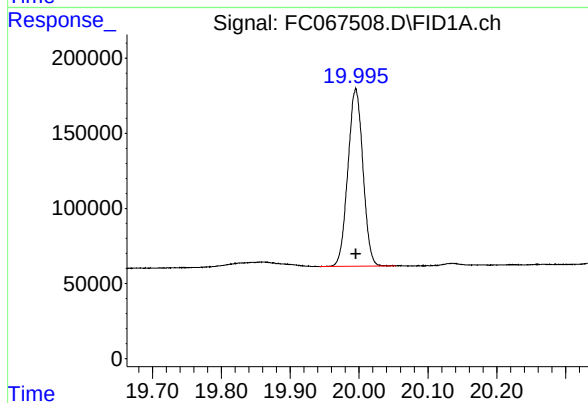
#18 n-Dotriacontane (C32)

R.T.: 18.475 min
Delta R.T.: 0.000 min
Response: 2323289
Conc: 20.00 ug/ml



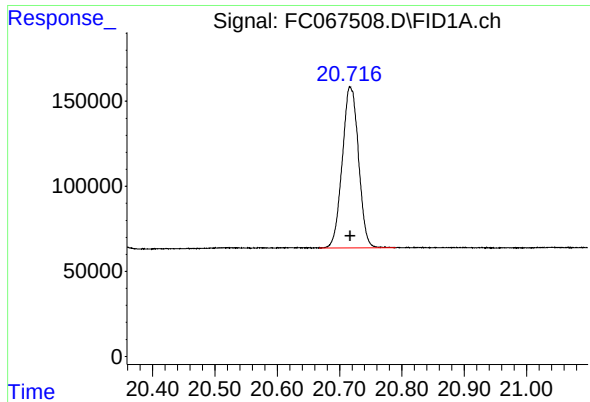
#19 n-Tetatriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.000 min
Response: 2065430
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

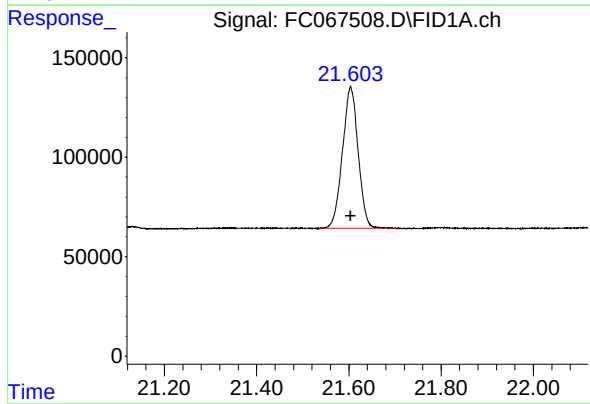
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 1794670
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.718 min
Delta R.T.: 0.000 min
Response: 1712685
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 1679680
Conc: 20.00 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.275	3.245	3.325	BB	321230	2673666	90.89%	5.047%
2	4.339	4.287	4.399	BB	291890	2702691	91.88%	5.102%
3	5.916	5.860	6.005	BB	318035	2941492	100.00%	5.553%
4	6.354	6.289	6.420	BB	270407	2685213	91.29%	5.069%
5	6.971	6.924	7.074	BB	271627	2804469	95.34%	5.294%
6	8.146	8.082	8.215	BB	241446	2596600	88.27%	4.902%
7	9.745	9.687	9.824	BB	236243	2611645	88.79%	4.930%
8	11.185	11.139	11.262	BB	226739	2610385	88.74%	4.928%
9	11.496	11.437	11.555	BB	253146	2885453	98.09%	5.447%
10	12.492	12.424	12.549	BB	205716	2486010	84.52%	4.693%
11	12.935	12.879	12.997	BB	178352	2131037	72.45%	4.023%
12	13.103	13.037	13.162	BB	194305	2429615	82.60%	4.587%
13	13.688	13.622	13.759	BB	184039	2410406	81.95%	4.550%
14	14.790	14.719	14.854	BB	186782	2385181	81.09%	4.503%
15	15.809	15.747	15.872	BB	171744	2344463	79.70%	4.426%
16	16.757	16.684	16.830	BB	165164	2318777	78.83%	4.377%
17	17.644	17.575	17.707	BB	168160	2378909	80.87%	4.491%
18	18.475	18.417	18.544	BB	168488	2323289	78.98%	4.386%
19	19.258	19.065	19.324	BB	141960	2065430	70.22%	3.899%
20	19.995	19.942	20.054	PB	118336	1794670	61.01%	3.388%
21	20.718	20.667	20.790	BB	94381	1712685	58.23%	3.233%
22	21.604	21.535	21.702	BB	71304	1679680	57.10%	3.171%
Sum of corrected areas:							52971767	

Aliphatic EPH 102324.M Wed Oct 23 18:21:40 2024

Lab Sample ID:	10 PPM ALIPHATIC HC 9	Acq On:	23 Oct 2024 17:02
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067509.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	4198329.000	30.000	ug/ml
Aliphatic C12-C16	6.455	9.845	2702045.000	20.000	ug/ml
Aliphatic C16-C21	9.846	13.203	3934678.000	30.000	ug/ml
Aliphatic C21-C28	13.204	16.858	4951672.000	40.000	ug/ml
Aliphatic C28-C40	16.859	21.704	6283522.000	60.000	ug/ml
Aliphatic EPH	3.174		22070246.000	180.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067509.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 17:02
 Operator : YP/AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 23 17:42:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:42:09 2024
 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			
9) S ortho-Terphenyl (SURR)	11.495	1516253	10.457 ug/ml
Spiked Amount 50.000		Recovery =	20.91%
12) S 1-chlorooctadecane (S...	12.934	1104370	10.299 ug/ml
Spiked Amount 50.000		Recovery =	20.60%
Target Compounds			
1) T n-Nonane (C9)	3.274	1392325	10.429 ug/ml
2) T n-Decane (C10)	4.338	1408883	10.425 ug/ml
3) T A~Naphthalene (C11.7)	5.916	1523229	10.321 ug/ml
4) T n-Dodecane (C12)	6.353	1397121	10.404 ug/ml
5) T A~2-methylnaphthalene...	6.971	1445653	10.250 ug/ml
6) T n-Tetradecane (C14)	8.146	1348794	10.363 ug/ml
7) T n-Hexadecane (C16)	9.744	1353251	10.321 ug/ml
8) T n-Octadecane (C18)	11.184	1362847	10.395 ug/ml
10) T n-Eicosane (C20)	12.491	1299257	10.409 ug/ml
11) T n-Heneicosane (C21)	13.102	1272574	10.413 ug/ml
13) T n-Docosane (C22)	13.687	1260218	10.404 ug/ml
14) T n-Tetracosane (C24)	14.789	1251574	10.427 ug/ml
15) T n-Hexacosane (C26)	15.808	1226594	10.413 ug/ml
16) T n-Octacosane (C28)	16.756	1213286	10.461 ug/ml
17) T n-Tricontane (C30)	17.643	1249088	10.570 ug/ml
18) T n-Dotriacontane (C32)	18.474	1225099	10.667 ug/ml
19) T n-Tetratriacontane (C34)	19.257	1087201	10.641 ug/ml
20) T n-Hexatriacontane (C36)	19.995	941330	10.535 ug/ml
21) T n-Octatriacontane (C38)	20.719	898154	10.530 ug/ml
22) T n-Tetracontane (C40)	21.604	882650	10.523 ug/ml

(f)=RT Delta > 1/2 Window

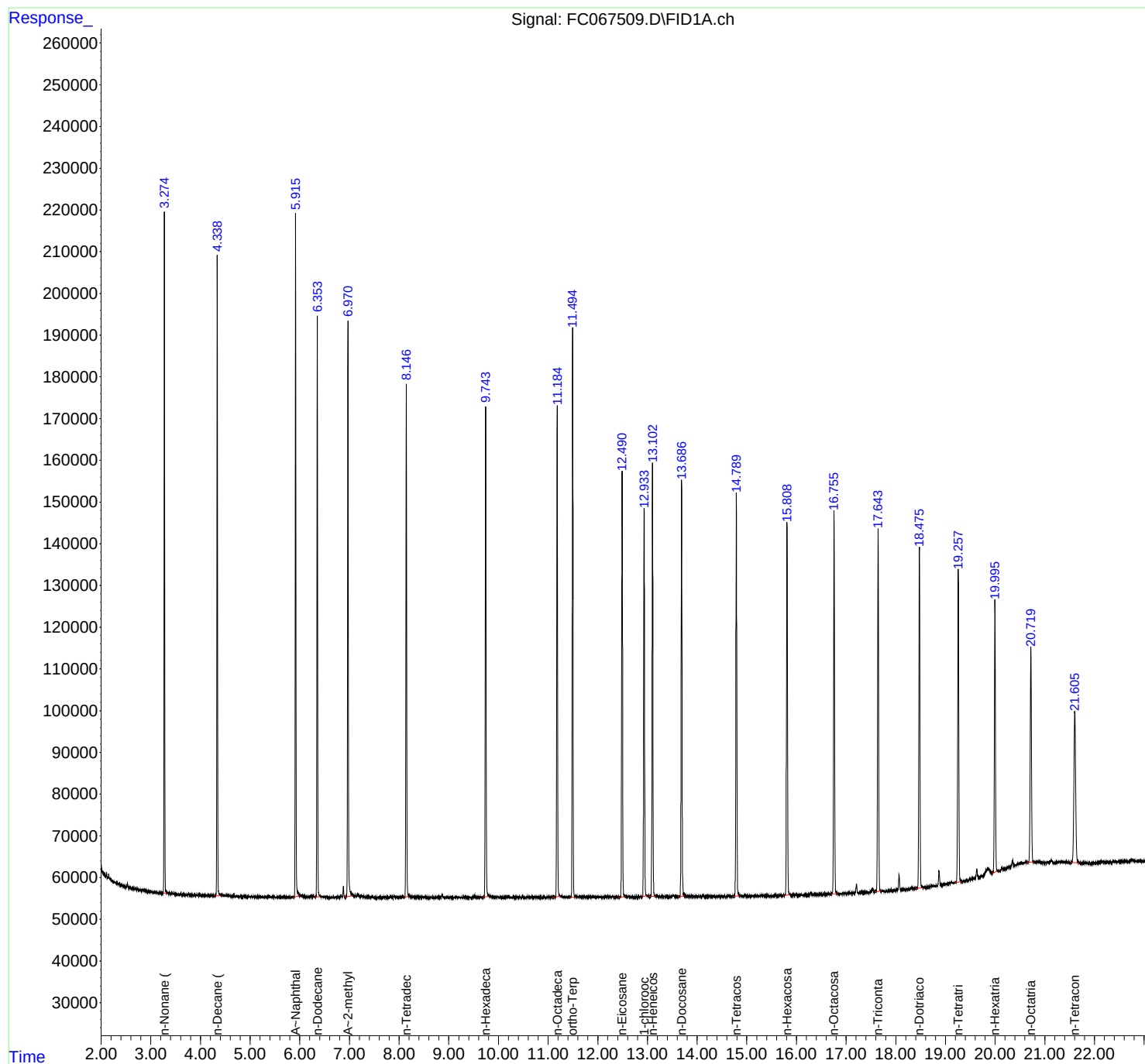
(m)=manual int.

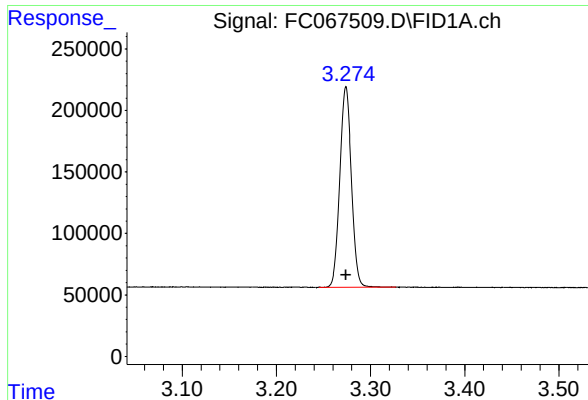
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:42:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:42:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

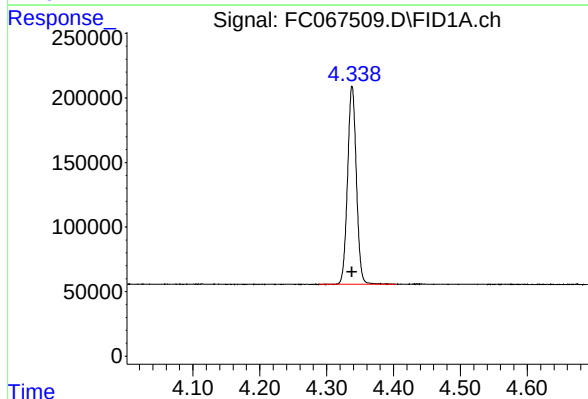




#1 n-Nonane (C9)

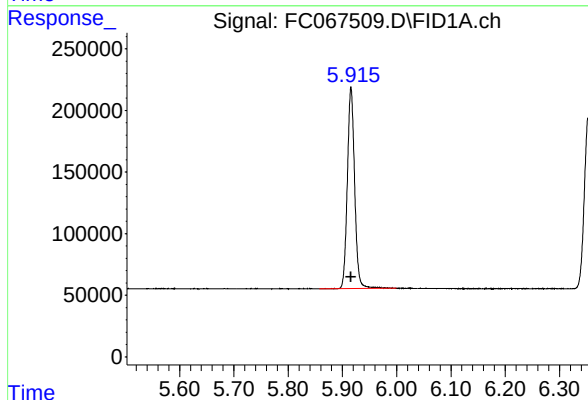
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 1392325
Conc: 10.43 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



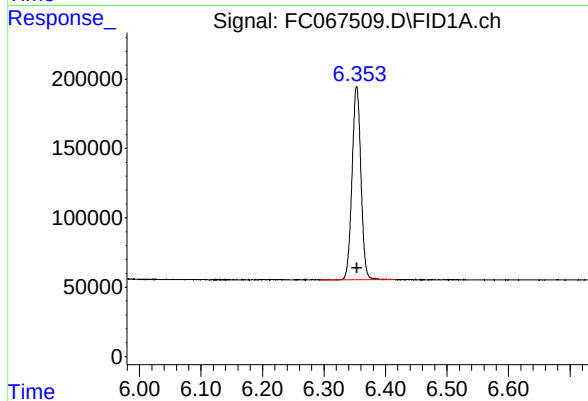
#2 n-Decane (C10)

R.T.: 4.338 min
Delta R.T.: 0.000 min
Response: 1408883
Conc: 10.42 ug/ml



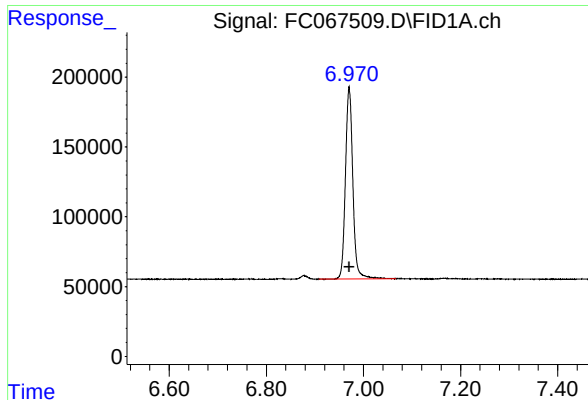
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 1523229
Conc: 10.32 ug/ml



#4 n-Dodecane (C12)

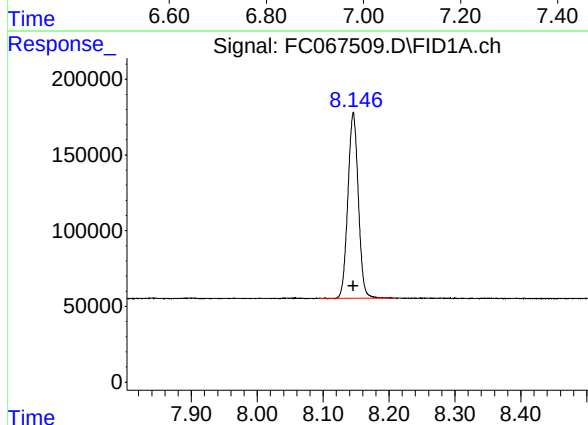
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 1397121
Conc: 10.40 ug/ml



#5 A~2-methylnaphthalene (C12.89)

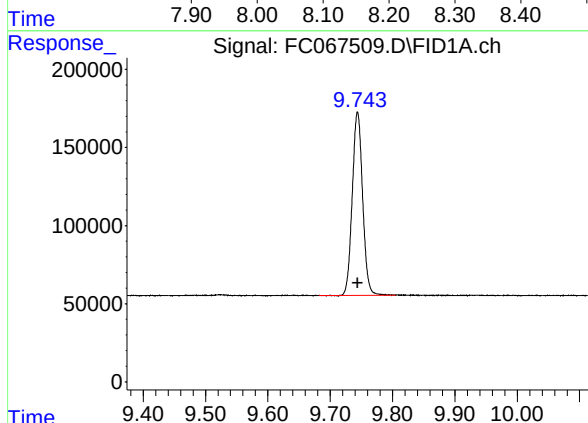
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 1445653
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



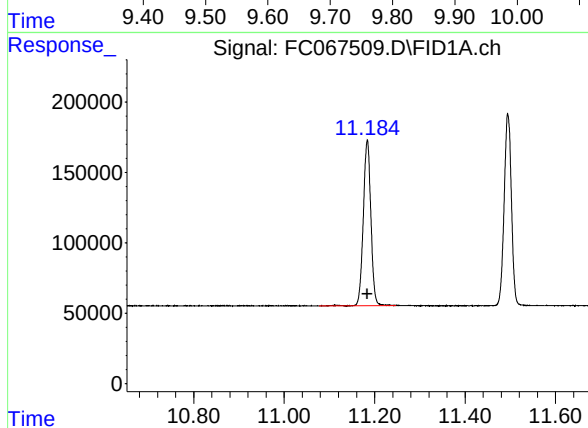
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 1348794
Conc: 10.36 ug/ml



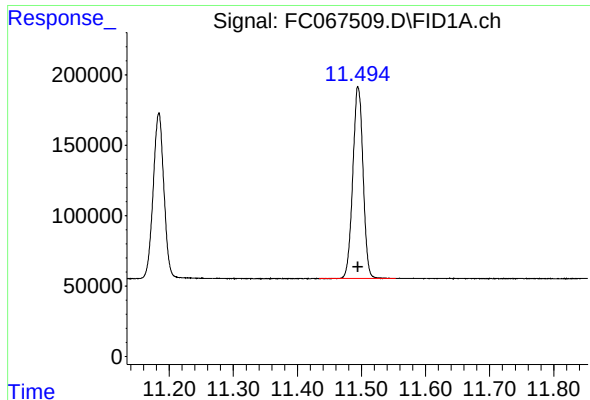
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 1353251
Conc: 10.32 ug/ml



#8 n-Octadecane (C18)

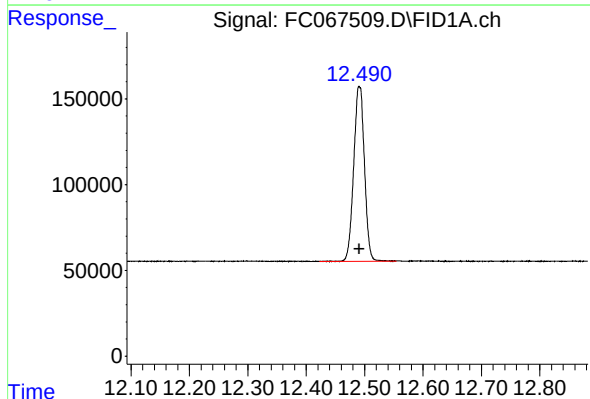
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 1362847
Conc: 10.39 ug/ml



#9 ortho-Terphenyl (SURR)

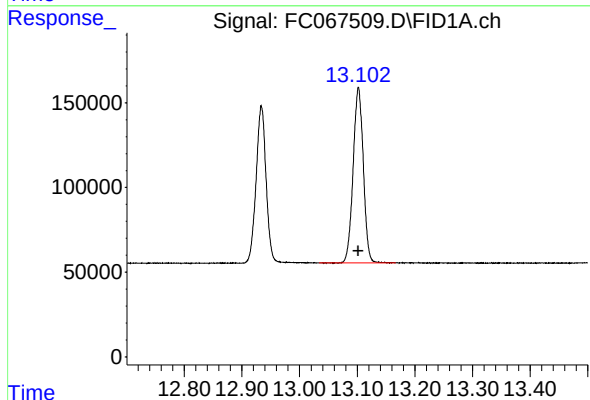
R.T.: 11.495 min
Delta R.T.: 0.000 min
Response: 1516253
Conc: 10.46 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



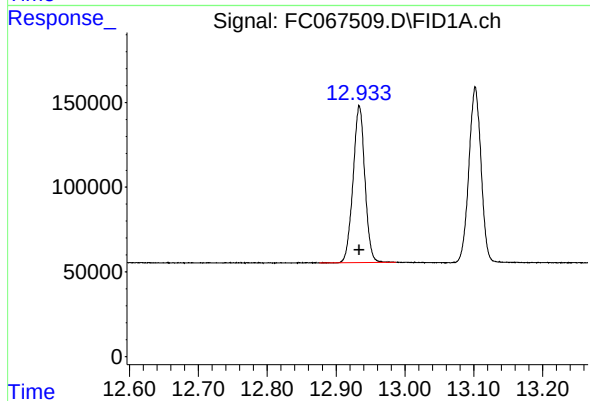
#10 n-Eicosane (C20)

R.T.: 12.491 min
Delta R.T.: 0.000 min
Response: 1299257
Conc: 10.41 ug/ml



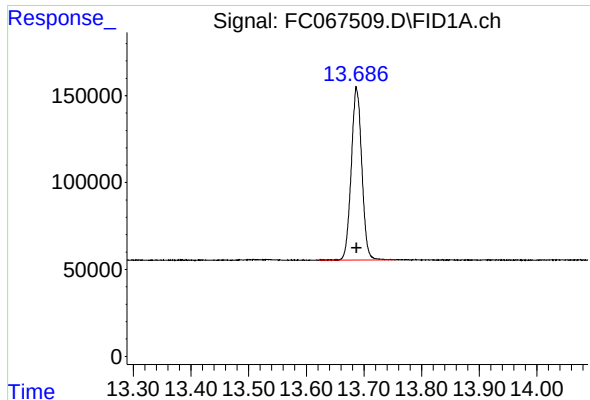
#11 n-Heneicosane (C21)

R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 1272574
Conc: 10.41 ug/ml



#12 1-chlorooctadecane (SURR)

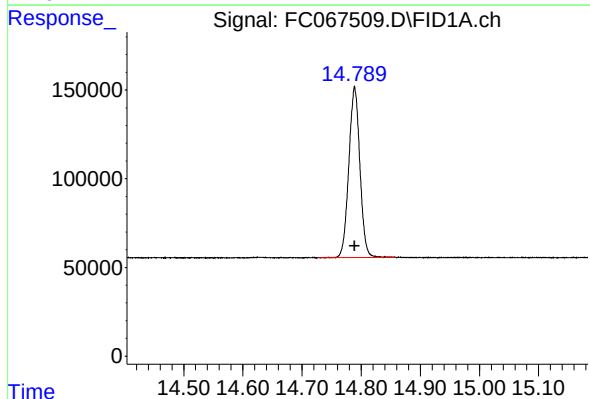
R.T.: 12.934 min
Delta R.T.: 0.000 min
Response: 1104370
Conc: 10.30 ug/ml



#13 n-Docosane (C22)

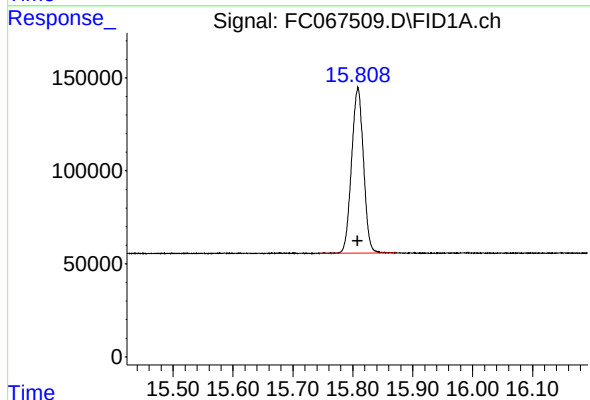
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 1260218
Conc: 10.40 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



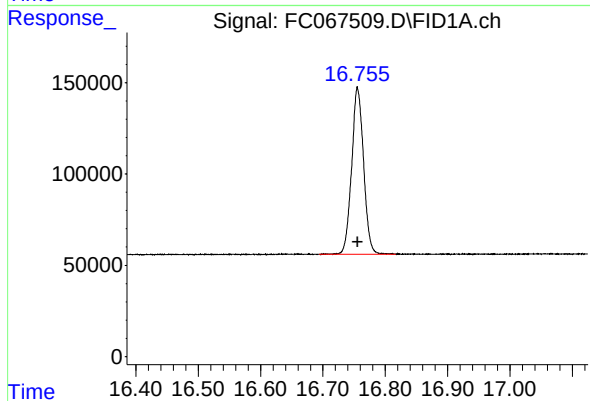
#14 n-Tetracosane (C24)

R.T.: 14.789 min
Delta R.T.: 0.000 min
Response: 1251574
Conc: 10.43 ug/ml



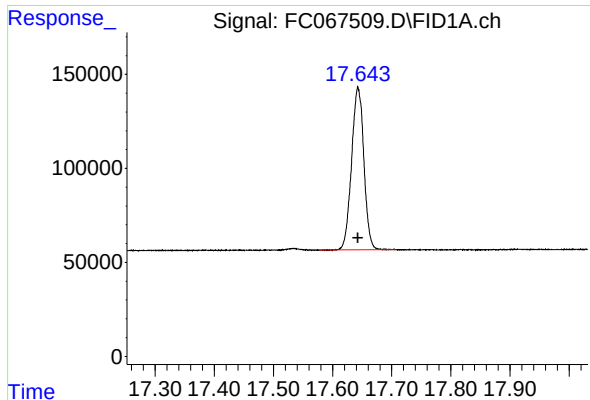
#15 n-Hexacosane (C26)

R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 1226594
Conc: 10.41 ug/ml



#16 n-Octacosane (C28)

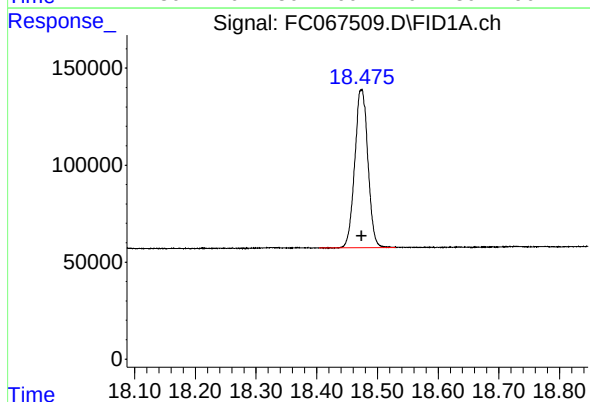
R.T.: 16.756 min
Delta R.T.: 0.000 min
Response: 1213286
Conc: 10.46 ug/ml



#17 n-Tricontane (C30)

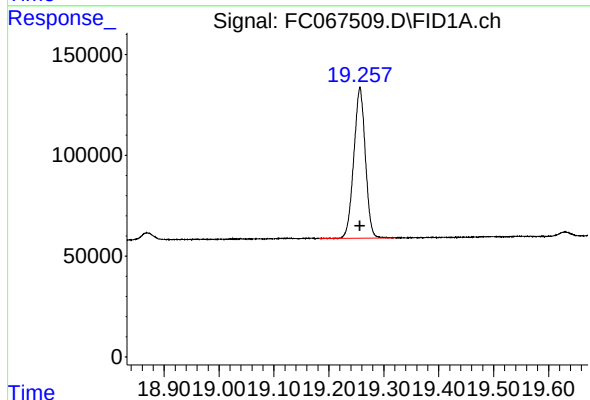
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 1249088
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



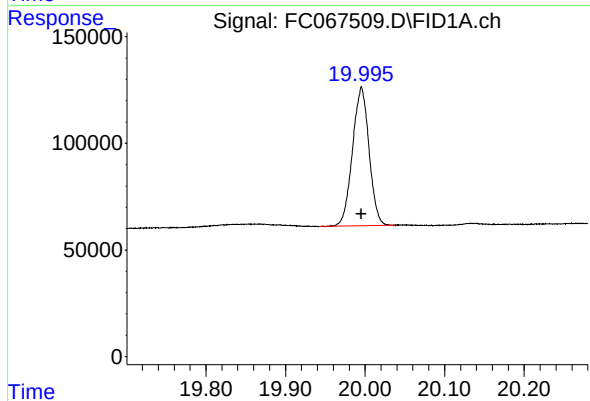
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 1225099
Conc: 10.67 ug/ml



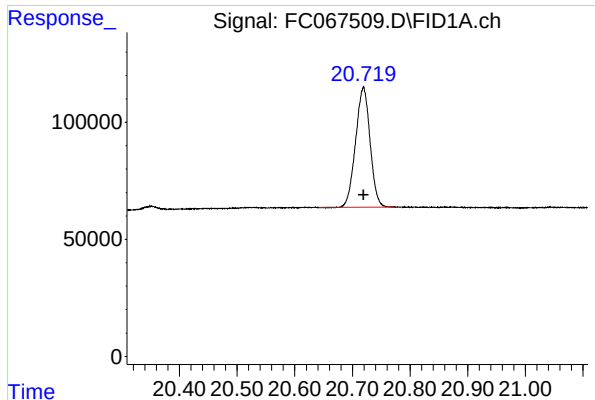
#19 n-Tetatriacontane (C34)

R.T.: 19.257 min
Delta R.T.: 0.000 min
Response: 1087201
Conc: 10.64 ug/ml



#20 n-Hexatriacontane (C36)

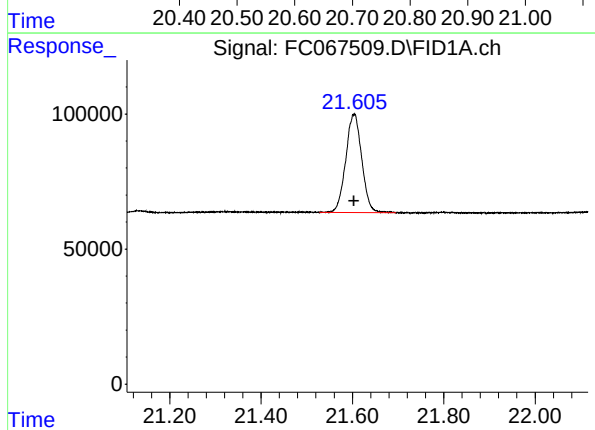
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 941330
Conc: 10.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.719 min
Delta R.T.: 0.000 min
Response: 898154
Conc: 10.53 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 882650
Conc: 10.52 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067509.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 17:02
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.274	3.245	3.327	BB	163023	1392325	91.41%	5.034%
2	4.338	4.289	4.404	BB	153448	1408883	92.49%	5.094%
3	5.916	5.857	5.999	BB	163420	1523229	100.00%	5.507%
4	6.353	6.292	6.417	BB	139335	1397121	91.72%	5.051%
5	6.971	6.909	7.067	BB	137359	1445653	94.91%	5.227%
6	8.146	8.094	8.210	BB	122199	1348794	88.55%	4.876%
7	9.744	9.682	9.805	BB	117477	1353251	88.84%	4.892%
8	11.184	11.077	11.247	BB	117457	1362847	89.47%	4.927%
9	11.495	11.434	11.554	BB	135385	1516253	99.54%	5.482%
10	12.491	12.422	12.554	BB	101975	1299257	85.30%	4.697%
11	12.934	12.875	12.987	BB	92846	1104370	72.50%	3.993%
12	13.102	13.034	13.167	BB	103848	1272574	83.54%	4.601%
13	13.687	13.622	13.755	BB	98770	1260218	82.73%	4.556%
14	14.789	14.729	14.859	BB	96250	1251574	82.17%	4.525%
15	15.808	15.744	15.872	BB	89337	1226594	80.53%	4.435%
16	16.756	16.694	16.817	BB	91173	1213286	79.65%	4.386%
17	17.643	17.577	17.707	BB	85908	1249088	82.00%	4.516%
18	18.474	18.404	18.530	BB	81392	1225099	80.43%	4.429%
19	19.257	19.182	19.322	BB	75084	1087201	71.37%	3.931%
20	19.995	19.942	20.039	BB	65222	941330	61.80%	3.403%
21	20.719	20.642	20.775	BB	51277	898154	58.96%	3.247%
22	21.604	21.527	21.695	BB	35971	882650	57.95%	3.191%
Sum of corrected areas:						27659751		

Aliphatic EPH 102324.M Wed Oct 23 18:21:58 2024

Lab Sample ID:	5 PPM ALIPHATIC HC S	Acq On:	23 Oct 2024 17:38
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067510.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	2101198.000	15.000	ug/ml
Aliphatic C12-C16	6.455	9.845	1358541.000	10.000	ug/ml
Aliphatic C16-C21	9.846	13.203	1979840.000	15.000	ug/ml
Aliphatic C21-C28	13.204	16.858	2510279.000	20.000	ug/ml
Aliphatic C28-C40	16.859	21.704	3289360.000	30.000	ug/ml
Aliphatic EPH	3.174		11239218.000	90.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067510.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 17:38
 Operator : YP/AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 23 18:12:12 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:02 2024
 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			
9) S ortho-Terphenyl (SURR)	11.494	768220	5.236 ug/ml
Spiked Amount 50.000		Recovery =	10.47%
12) S 1-chlorooctadecane (S...	12.933	555182	5.141 ug/ml
Spiked Amount 50.000		Recovery =	10.28%
Target Compounds			
1) T n-Nonane (C9)	3.275	697792	5.180 ug/ml
2) T n-Decane (C10)	4.339	703136	5.161 ug/ml
3) T A~Naphthalene (C11.7)	5.917	752949	5.081 ug/ml
4) T n-Dodecane (C12)	6.354	700270	5.170 ug/ml
5) T A~2-methylnaphthalene...	6.971	709834	5.026 ug/ml
6) T n-Tetradecane (C14)	8.146	678328	5.168 ug/ml
7) T n-Hexadecane (C16)	9.744	680213	5.149 ug/ml
8) T n-Octadecane (C18)	11.184	680709	5.152 ug/ml
10) T n-Eicosane (C20)	12.491	658066	5.215 ug/ml
11) T n-Heneicosane (C21)	13.102	641065	5.194 ug/ml
13) T n-Docosane (C22)	13.687	638712	5.216 ug/ml
14) T n-Tetracosane (C24)	14.789	629495	5.193 ug/ml
15) T n-Hexacosane (C26)	15.808	620443	5.211 ug/ml
16) T n-Octacosane (C28)	16.758	621629	5.284 ug/ml
17) T n-Tricontane (C30)	17.643	658247	5.446 ug/ml
18) T n-Dotriacontane (C32)	18.474	660916	5.586 ug/ml
19) T n-Tetratriacontane (C34)	19.256	574804	5.489 ug/ml
20) T n-Hexatriacontane (C36)	19.994	488556	5.367 ug/ml
21) T n-Octatriacontane (C38)	20.718	459107	5.301 ug/ml
22) T n-Tetracontane (C40)	21.603	447730	5.267 ug/ml

(f)=RT Delta > 1/2 Window

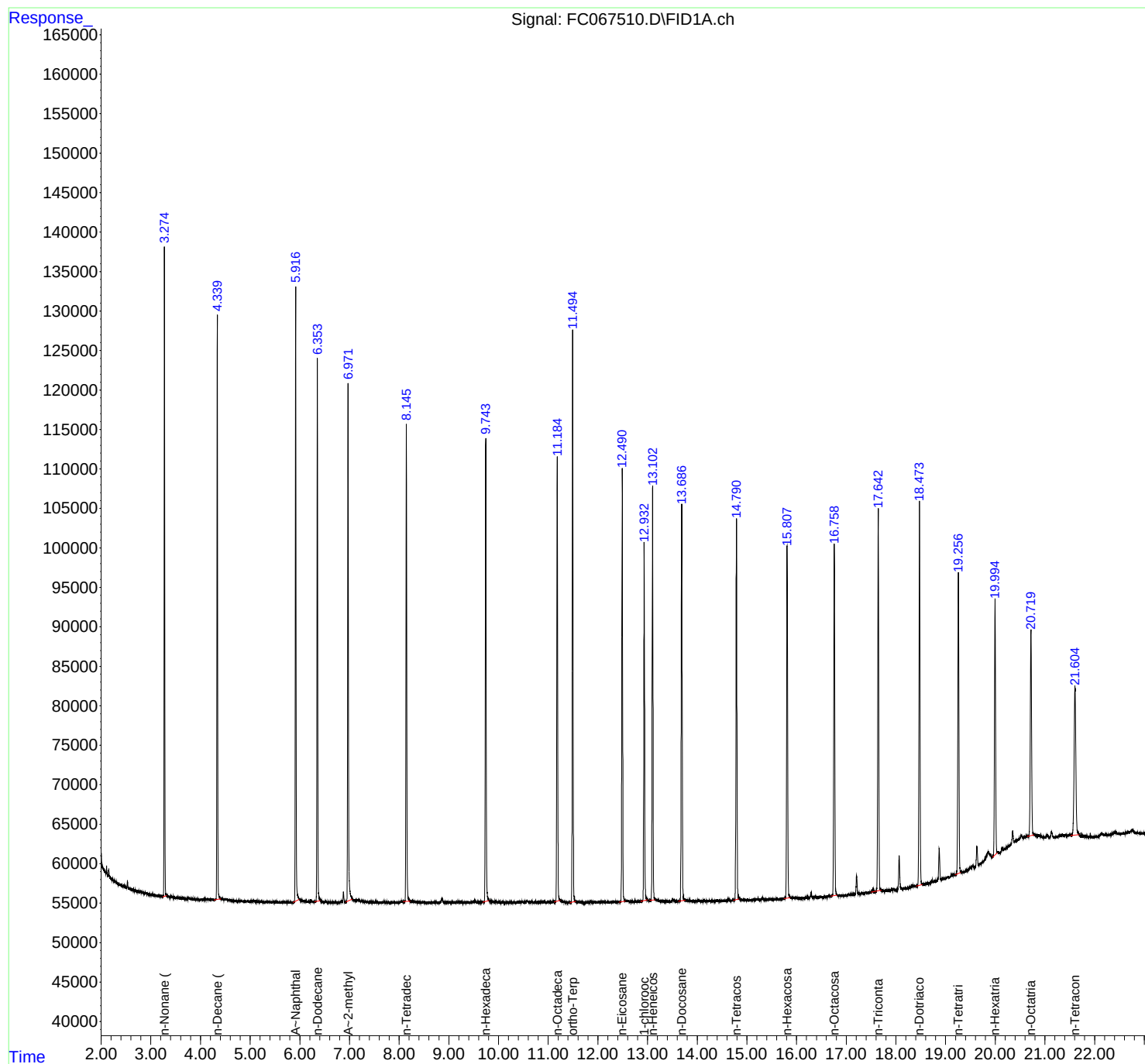
(m)=manual int.

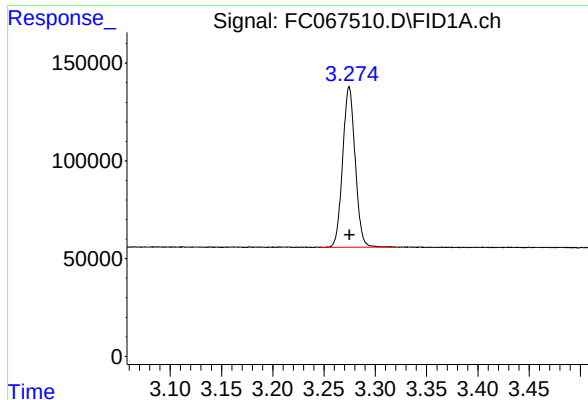
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:12:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

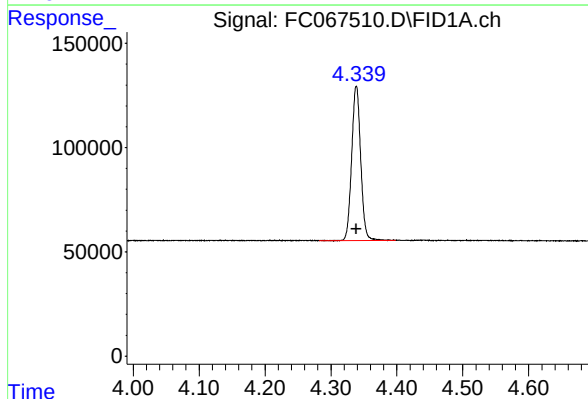




#1 n-Nonane (C9)

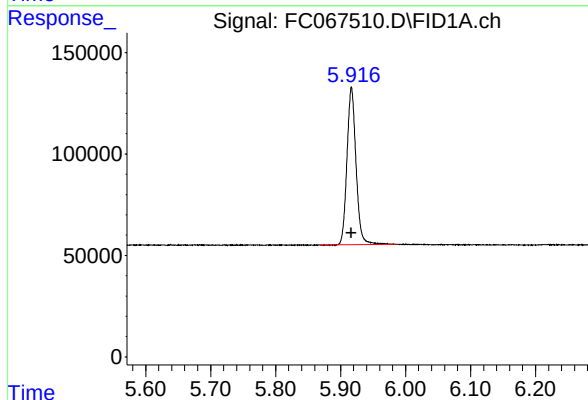
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 697792
Conc: 5.18 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



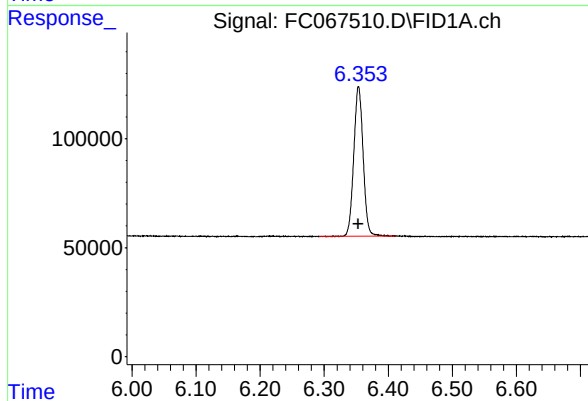
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 703136
Conc: 5.16 ug/ml



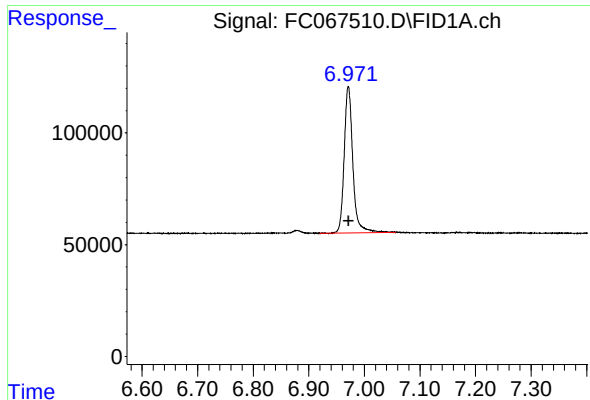
#3 A~Naphthalene (C11.7)

R.T.: 5.917 min
Delta R.T.: 0.000 min
Response: 752949
Conc: 5.08 ug/ml



#4 n-Dodecane (C12)

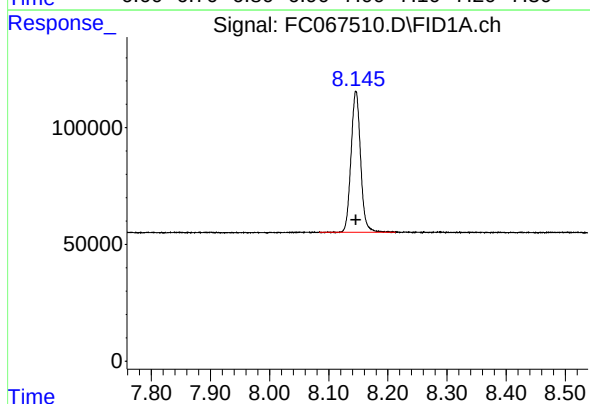
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 700270
Conc: 5.17 ug/ml



#5 A~2-methylnaphthalene (C12.89)

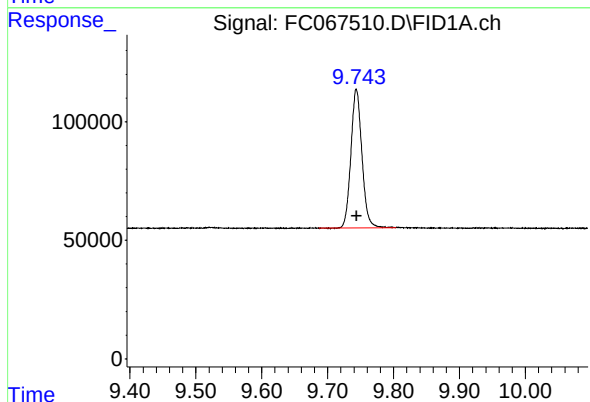
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 709834
Conc: 5.03 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



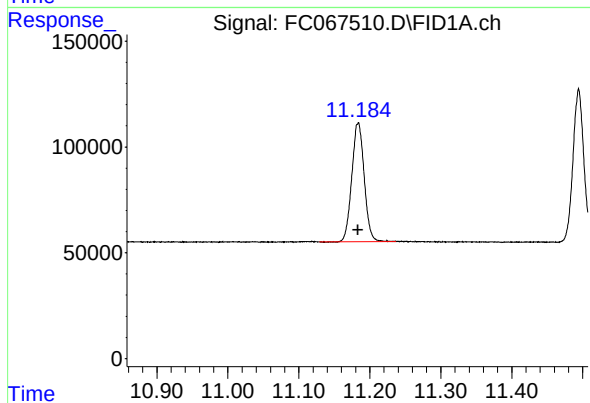
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 678328
Conc: 5.17 ug/ml



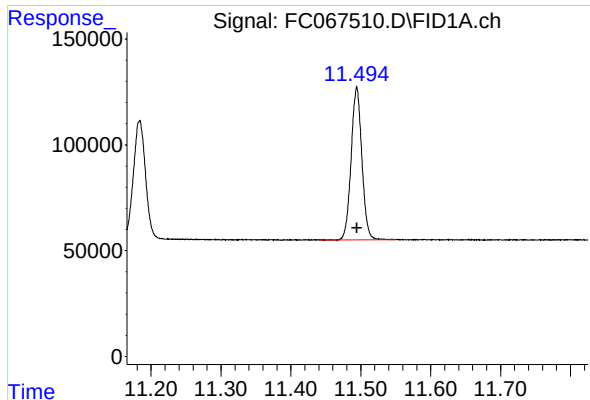
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 680213
Conc: 5.15 ug/ml



#8 n-Octadecane (C18)

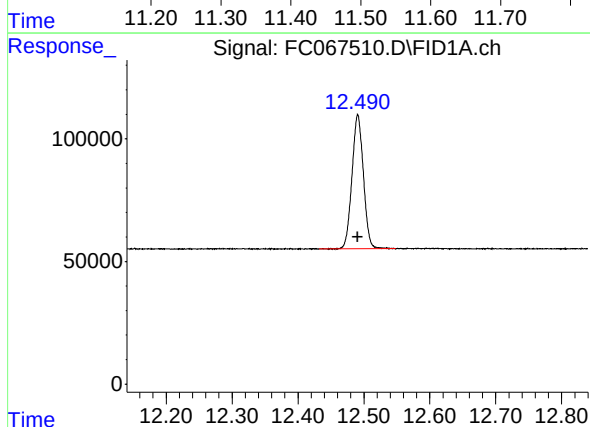
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 680709
Conc: 5.15 ug/ml



#9 ortho-Terphenyl (SURR)

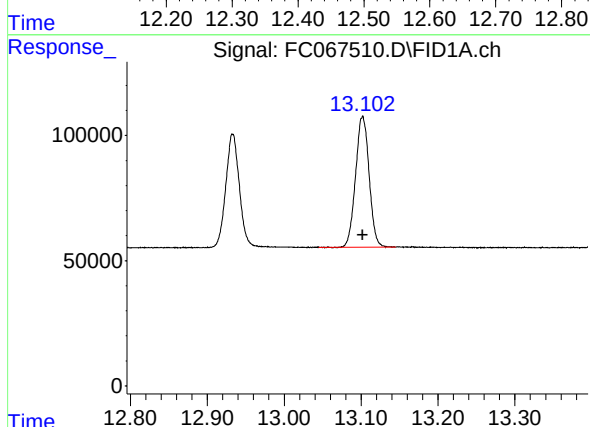
R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 768220
Conc: 5.24 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



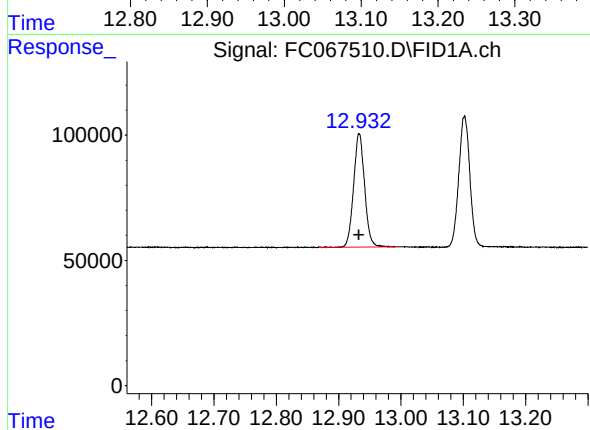
#10 n-Eicosane (C20)

R.T.: 12.491 min
Delta R.T.: 0.000 min
Response: 658066
Conc: 5.22 ug/ml



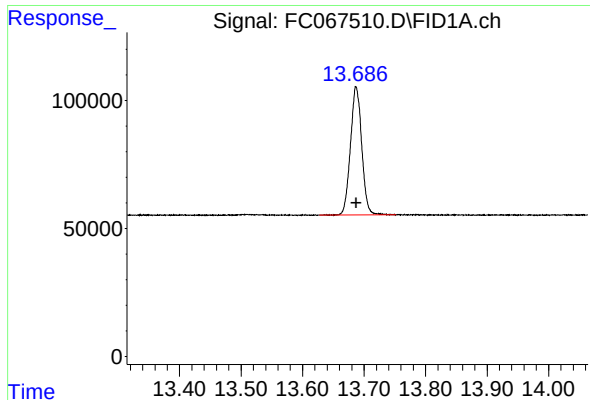
#11 n-Heneicosane (C21)

R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 641065
Conc: 5.19 ug/ml



#12 1-chlorooctadecane (SURR)

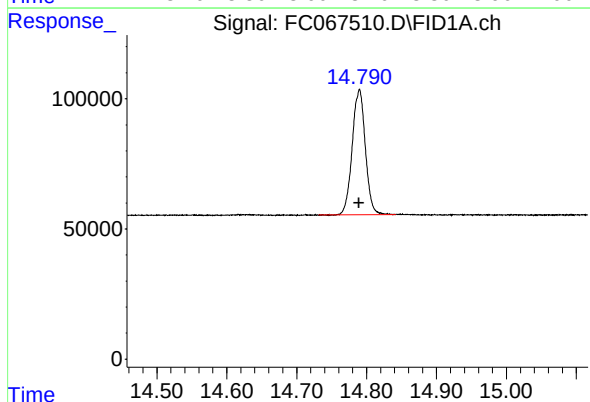
R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 555182
Conc: 5.14 ug/ml



#13 n-Docosane (C22)

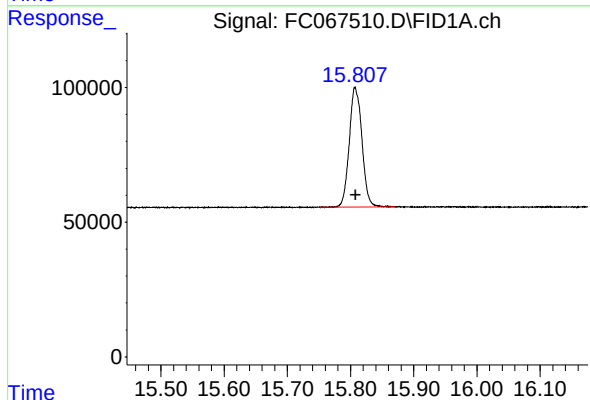
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 638712
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



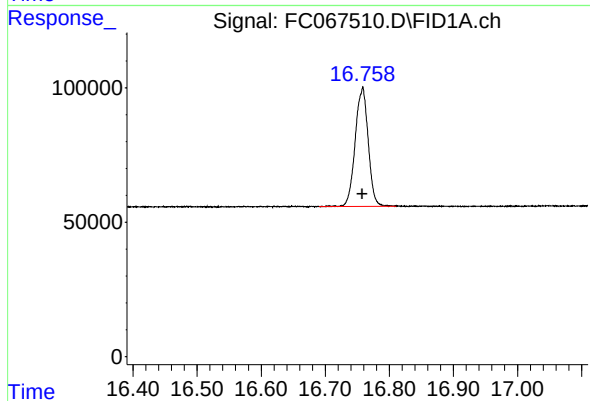
#14 n-Tetracosane (C24)

R.T.: 14.789 min
Delta R.T.: 0.000 min
Response: 629495
Conc: 5.19 ug/ml



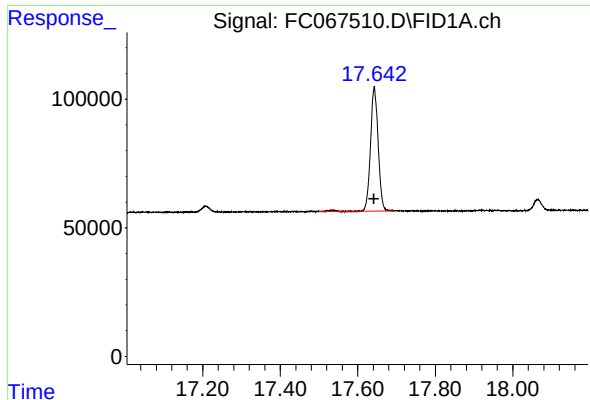
#15 n-Hexacosane (C26)

R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 620443
Conc: 5.21 ug/ml



#16 n-Octacosane (C28)

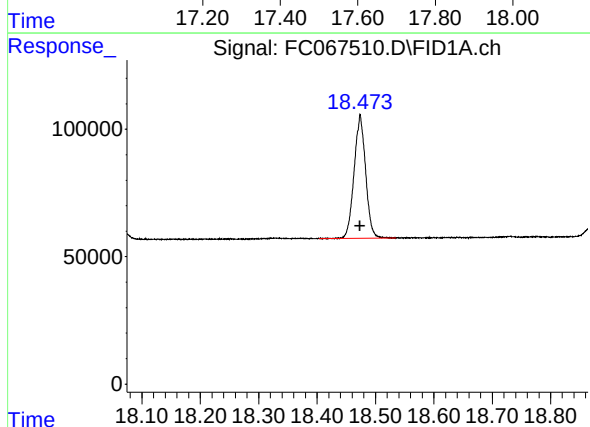
R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 621629
Conc: 5.28 ug/ml



#17 n-Tricontane (C30)

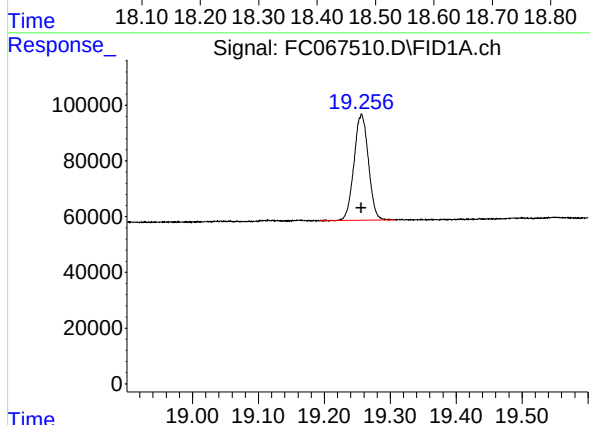
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 658247
Conc: 5.45 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



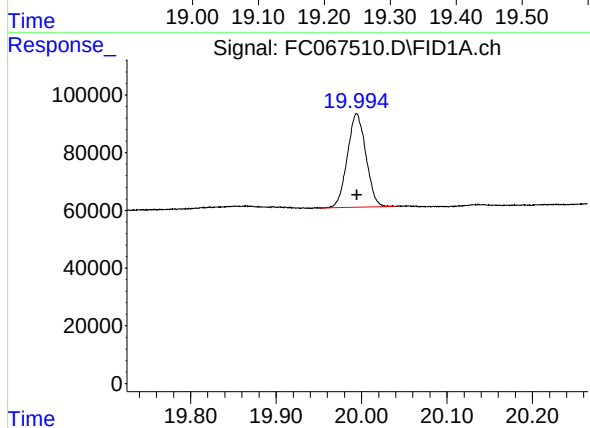
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 660916
Conc: 5.59 ug/ml



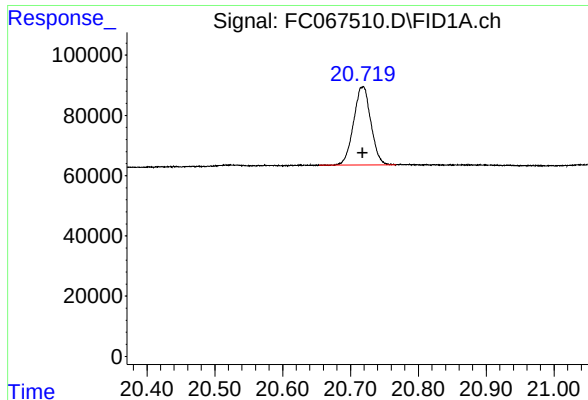
#19 n-Tetatriacontane (C34)

R.T.: 19.256 min
Delta R.T.: 0.000 min
Response: 574804
Conc: 5.49 ug/ml



#20 n-Hexatriacontane (C36)

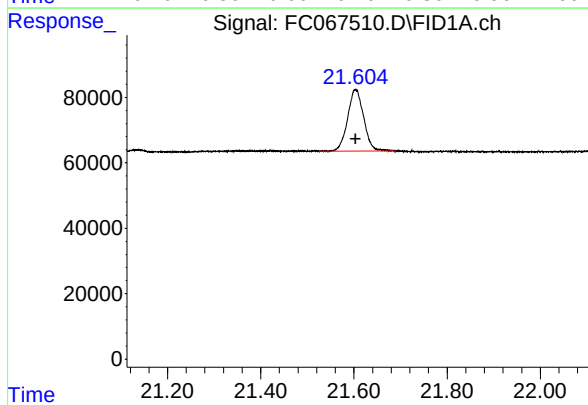
R.T.: 19.994 min
Delta R.T.: 0.000 min
Response: 488556
Conc: 5.37 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.718 min
Delta R.T.: 0.000 min
Response: 459107
Conc: 5.30 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.603 min
Delta R.T.: 0.000 min
Response: 447730
Conc: 5.27 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.275	3.245	3.320	BB	82274	697792	90.83%	4.975%
2	4.339	4.282	4.399	BB	74065	703136	91.53%	5.013%
3	5.917	5.867	5.985	BB	77688	752949	98.01%	5.368%
4	6.354	6.292	6.412	BB	68794	700270	91.15%	4.993%
5	6.971	6.919	7.057	BB	65640	709834	92.40%	5.061%
6	8.146	8.084	8.214	BB	60655	678328	88.30%	4.836%
7	9.744	9.687	9.804	BB	58521	680213	88.54%	4.850%
8	11.184	11.129	11.237	BB	55995	680709	88.61%	4.853%
9	11.494	11.440	11.550	BB	71976	768220	100.00%	5.477%
10	12.491	12.432	12.549	BB	54755	658066	85.66%	4.692%
11	12.933	12.869	12.992	BB	45156	555182	72.27%	3.958%
12	13.102	13.045	13.145	BB	52087	641065	83.45%	4.571%
13	13.687	13.627	13.752	BB	50083	638712	83.14%	4.554%
14	14.789	14.732	14.842	BB	47789	629495	81.94%	4.488%
15	15.808	15.750	15.872	BB	43825	620443	80.76%	4.424%
16	16.758	16.690	16.810	BB	44656	621629	80.92%	4.432%
17	17.643	17.500	17.699	BB	47945	658247	85.68%	4.693%
18	18.474	18.404	18.535	BB	48459	660916	86.03%	4.712%
19	19.256	19.192	19.309	BB	38187	574804	74.82%	4.098%
20	19.994	19.950	20.040	BB	32420	488556	63.60%	3.483%
21	20.718	20.654	20.767	BB	25975	459107	59.76%	3.273%
22	21.603	21.525	21.690	BB	18849	447730	58.28%	3.192%
Sum of corrected areas:						14025400		

Aliphatic EPH 102324.M Wed Oct 23 18:22:16 2024

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	20 PPM ALIPHATIC HC S'	Acq On:	23 Oct 2024 18:14
Client Sample ID:	20 PPM ALIPHATIC HC S'	Operator:	YP/AJ
Data file:	FC067511.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.454	10797590	79.705	300	ug/ml
Aliphatic C12-C16	6.455	9.845	7916730	60.12	200	ug/ml
Aliphatic C16-C21	9.846	13.203	7473858	58.741	300	ug/ml
Aliphatic C21-C28	13.204	16.858	9383684	78.139	400	ug/ml
Aliphatic C28-C40	16.859	21.704	11843339	117.153	600	ug/ml
Aliphatic EPH	3.174	21.704	47415201	393.857		ug/ml
ortho-Terphenyl (SURR)	11.496	11.496	2853188	19.44		ug/ml
1-chlorooctadecane (SURR)	12.935	12.935	2112213	19.56		ug/ml
Aliphatic C9-C28	3.174	16.858	35571862	276.705	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067511.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 18:14
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 23 18:51:58 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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			
9) S ortho-Terphenyl (SURR)	11.496	2853188	19.445 ug/ml
Spiked Amount 50.000		Recovery =	38.89%
12) S 1-chlorooctadecane (S...	12.935	2112213	19.560 ug/ml
Spiked Amount 50.000		Recovery =	39.12%
Target Compounds			
1) T n-Nonane (C9)	3.274	2613683	19.401 ug/ml
2) T n-Decane (C10)	4.339	2649286	19.445 ug/ml
3) T A~Naphthalene (C11.7)	5.916	2894144	19.530 ug/ml
4) T n-Dodecane (C12)	6.354	2640477	19.495 ug/ml
5) T A~2-methylnaphthalene...	6.971	2771002	19.622 ug/ml
6) T n-Tetradecane (C14)	8.147	2559793	19.502 ug/ml
7) T n-Hexadecane (C16)	9.744	2585935	19.575 ug/ml
8) T n-Octadecane (C18)	11.185	2593351	19.630 ug/ml
10) T n-Eicosane (C20)	12.493	2466507	19.548 ug/ml
11) T n-Heneicosane (C21)	13.103	2414000	19.560 ug/ml
13) T n-Docosane (C22)	13.688	2390568	19.523 ug/ml
14) T n-Tetracosane (C24)	14.790	2369147	19.546 ug/ml
15) T n-Hexacosane (C26)	15.809	2326770	19.544 ug/ml
16) T n-Octacosane (C28)	16.757	2297199	19.526 ug/ml
17) T n-Tricontane (C30)	17.643	2353840	19.474 ug/ml
18) T n-Dotriacontane (C32)	18.474	2301371	19.450 ug/ml
19) T n-Tetratriacontane (C34)	19.258	2044186	19.519 ug/ml
20) T n-Hexatriacontane (C36)	19.996	1784212	19.601 ug/ml
21) T n-Octatriacontane (C38)	20.719	1698313	19.610 ug/ml
22) T n-Tetracontane (C40)	21.604	1661417	19.544 ug/ml

(f)=RT Delta > 1/2 Window

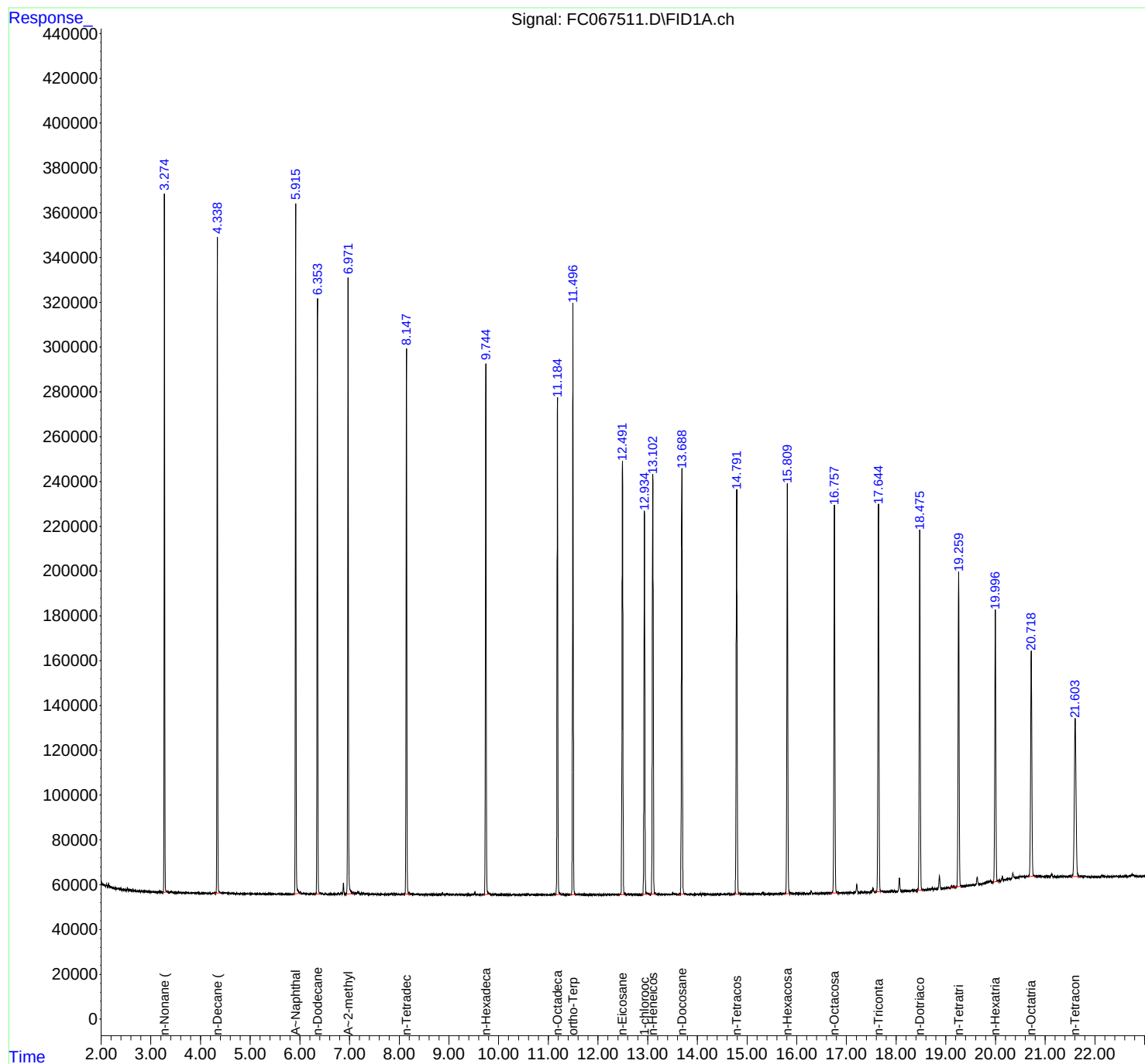
(m)=manual int.

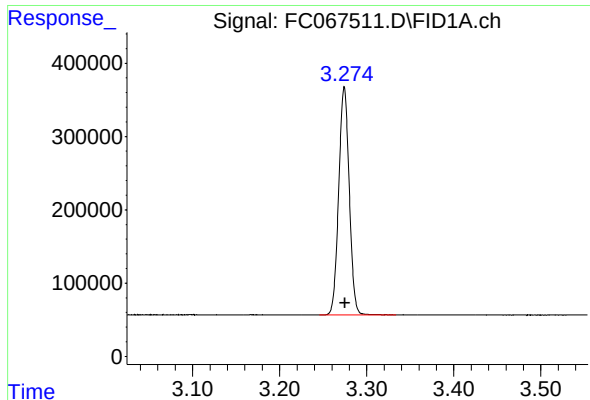
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:51:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

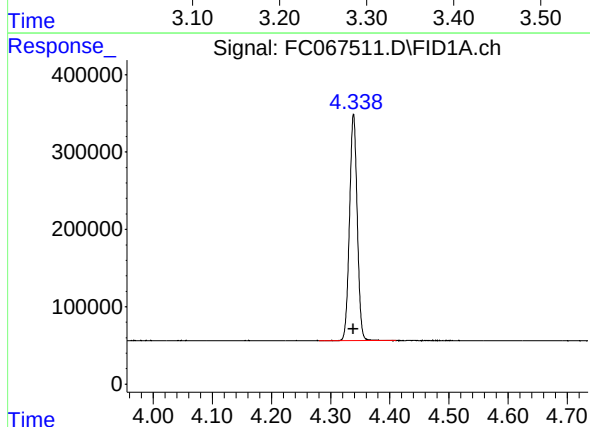
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 2613683
Conc: 19.40 ug/ml

Instrument :

FID_C

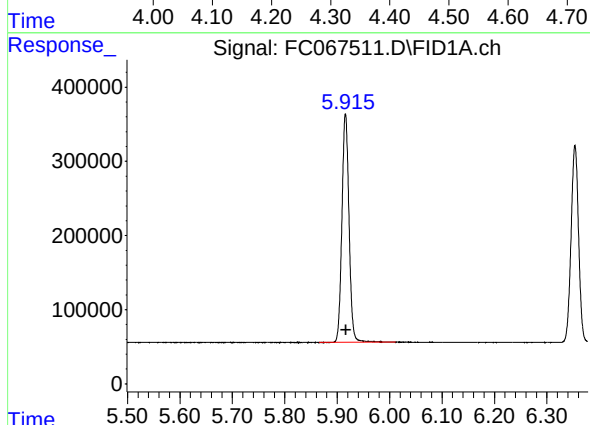
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



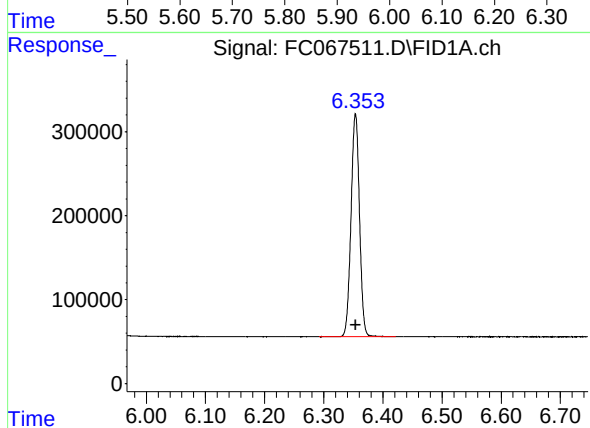
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2649286
Conc: 19.44 ug/ml



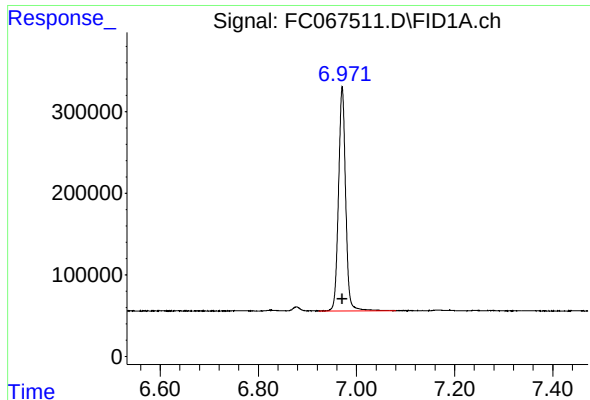
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 2894144
Conc: 19.53 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2640477
Conc: 19.50 ug/ml



#5 A~2-methylnaphthalene (C12.89)

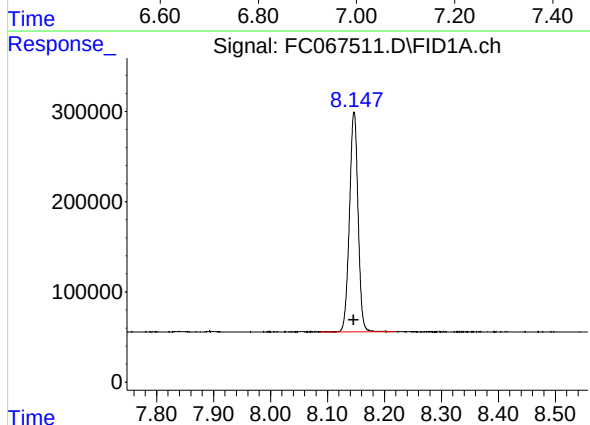
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2771002
Conc: 19.62 ug/ml

Instrument :

FID_C

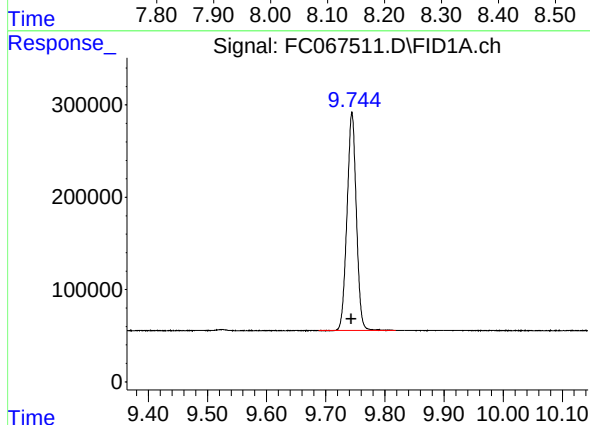
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



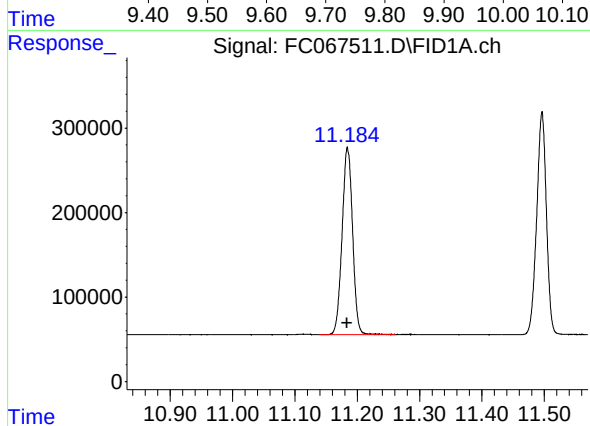
#6 n-Tetradecane (C14)

R.T.: 8.147 min
Delta R.T.: 0.000 min
Response: 2559793
Conc: 19.50 ug/ml



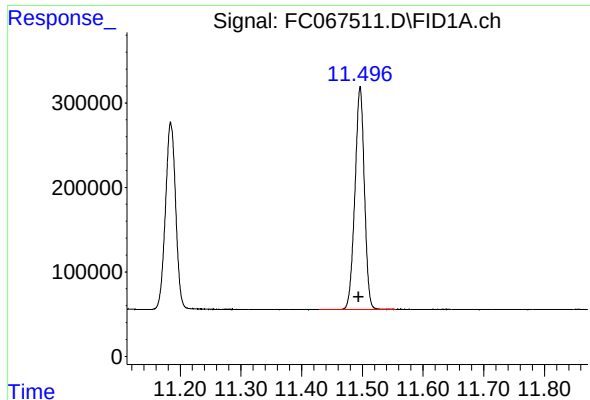
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 2585935
Conc: 19.58 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2593351
Conc: 19.63 ug/ml



#9 ortho-Terphenyl (SURR)

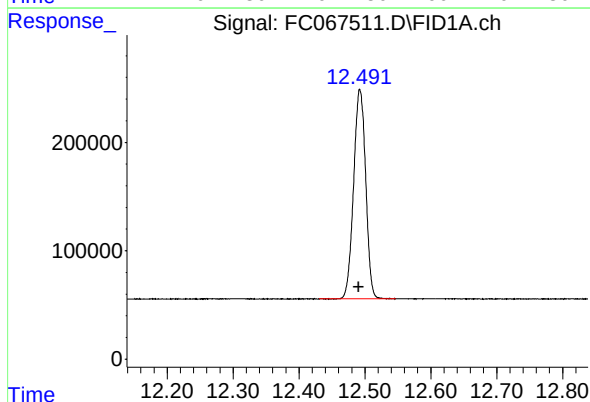
R.T.: 11.496 min
Delta R.T.: 0.002 min
Response: 2853188
Conc: 19.44 ug/ml

Instrument :

FID_C

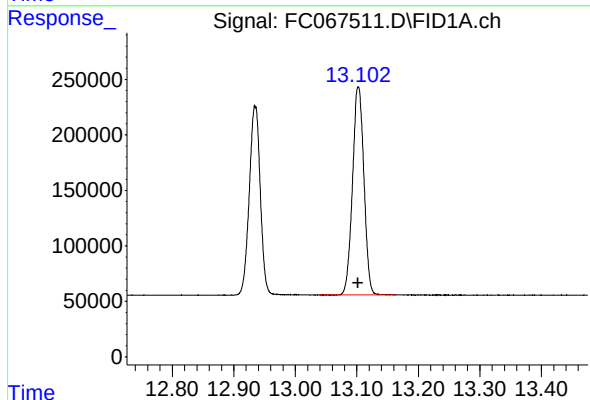
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



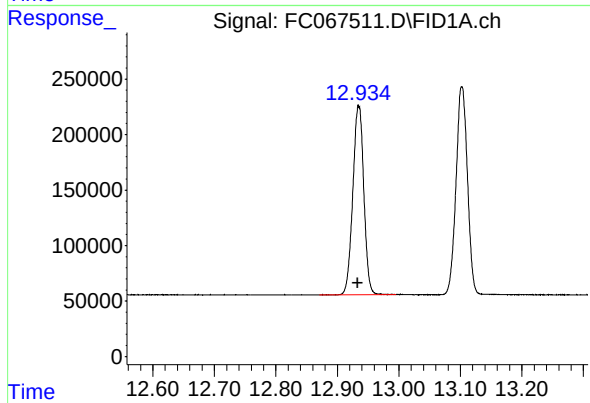
#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.002 min
Response: 2466507
Conc: 19.55 ug/ml



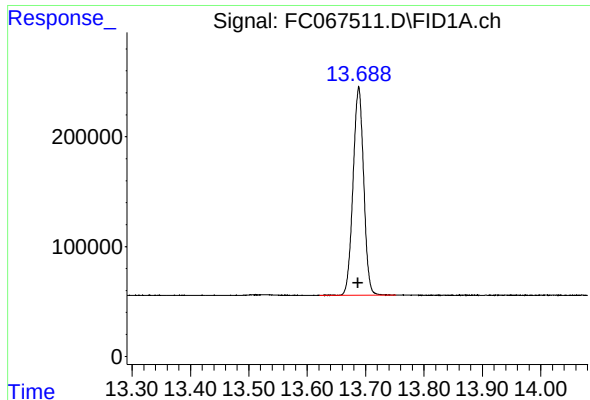
#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 2414000
Conc: 19.56 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.935 min
Delta R.T.: 0.002 min
Response: 2112213
Conc: 19.56 ug/ml



#13 n-Docosane (C22)

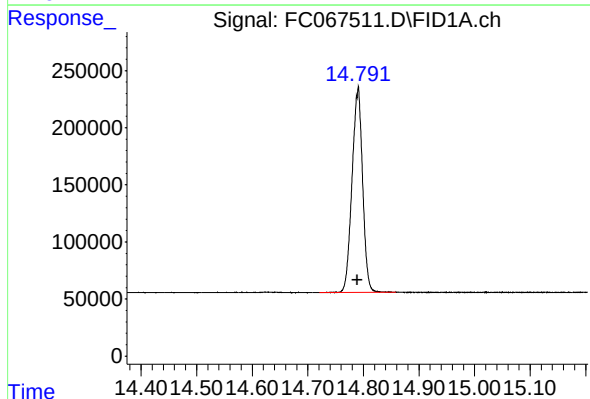
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2390568
Conc: 19.52 ug/ml

Instrument :

FID_C

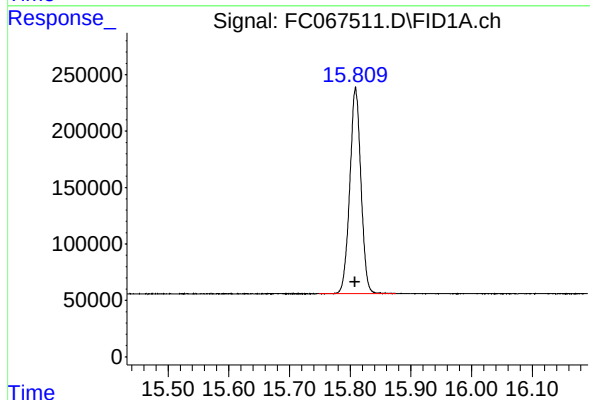
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



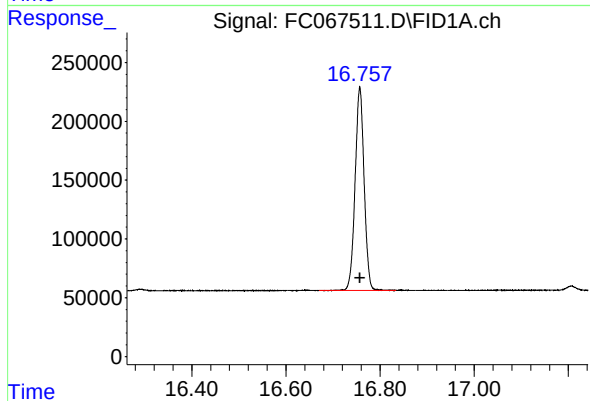
#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 2369147
Conc: 19.55 ug/ml



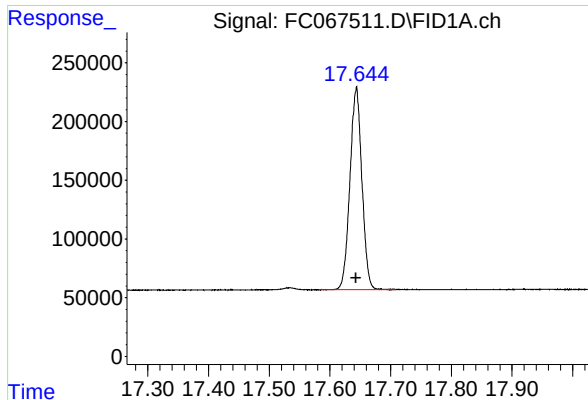
#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.001 min
Response: 2326770
Conc: 19.54 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2297199
Conc: 19.53 ug/ml



#17 n-Tricontane (C30)

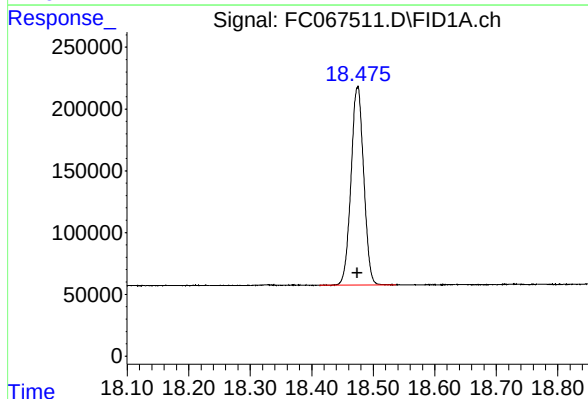
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 2353840
Conc: 19.47 ug/ml

Instrument :

FID_C

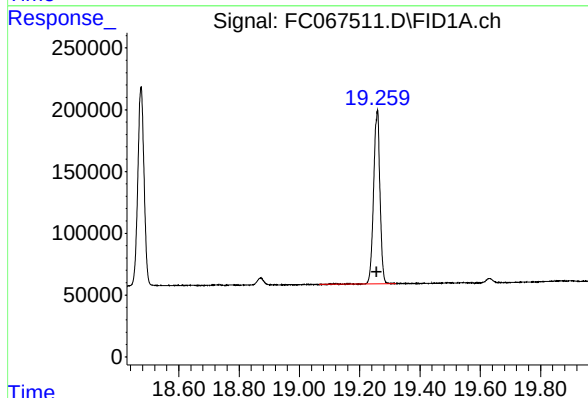
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



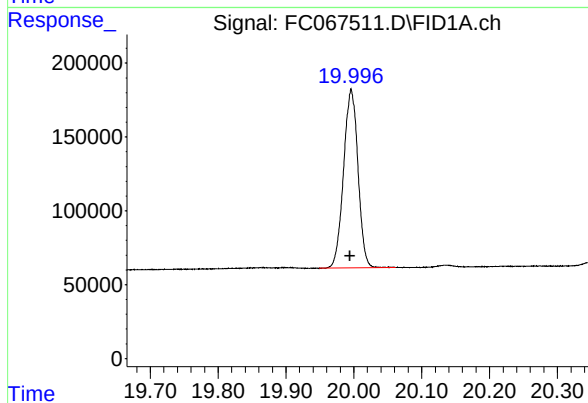
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 2301371
Conc: 19.45 ug/ml



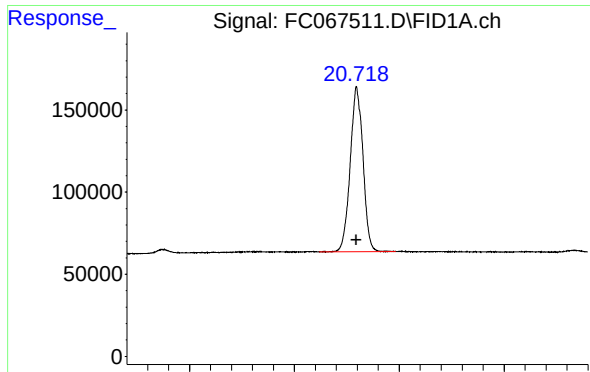
#19 n-Tetatriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.002 min
Response: 2044186
Conc: 19.52 ug/ml



#20 n-Hexatriacontane (C36)

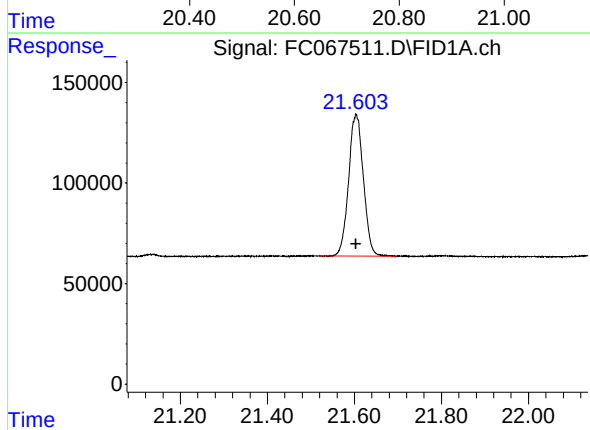
R.T.: 19.996 min
Delta R.T.: 0.002 min
Response: 1784212
Conc: 19.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.719 min
Delta R.T.: 0.000 min
Response: 1698313
Conc: 19.61 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 1661417
Conc: 19.54 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.274	3.245	3.334	BB	310826	2613683	90.31%	4.990%
2	4.339	4.280	4.410	BB	292955	2649286	91.54%	5.058%
3	5.916	5.865	6.012	BB	308318	2894144	100.00%	5.525%
4	6.354	6.292	6.422	BB	265716	2640477	91.24%	5.041%
5	6.971	6.924	7.080	BB	274073	2771002	95.75%	5.290%
6	8.147	8.085	8.220	BB	244098	2559793	88.45%	4.887%
7	9.744	9.689	9.819	BB	236009	2585935	89.35%	4.937%
8	11.185	11.139	11.262	BB	218367	2593351	89.61%	4.951%
9	11.496	11.429	11.555	BB	264747	2853188	98.58%	5.447%
10	12.493	12.430	12.547	BB	193698	2466507	85.22%	4.709%
11	12.935	12.870	12.995	BB	169232	2112213	72.98%	4.032%
12	13.103	13.039	13.164	BB	187529	2414000	83.41%	4.609%
13	13.688	13.620	13.752	BB	190590	2390568	82.60%	4.564%
14	14.790	14.720	14.859	BB	178398	2369147	81.86%	4.523%
15	15.809	15.749	15.875	BB	181908	2326770	80.40%	4.442%
16	16.757	16.670	16.834	BB	173028	2297199	79.37%	4.386%
17	17.643	17.582	17.709	BB	172064	2353840	81.33%	4.494%
18	18.474	18.412	18.537	BB	160280	2301371	79.52%	4.394%
19	19.258	19.065	19.320	BB	140731	2044186	70.63%	3.903%
20	19.996	19.949	20.062	BB	120232	1784212	61.65%	3.406%
21	20.719	20.647	20.794	BB	100162	1698313	58.68%	3.242%
22	21.604	21.519	21.695	BB	70657	1661417	57.41%	3.172%
Sum of corrected areas:							52380600	

Aliphatic EPH 102324.M Wed Oct 23 18:53:21 2024

Initial Calibration Report for SequenceID : FD102324AR

AreaCount

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	34560081.000	17413124.000	7062069.000	3602660.000	1773971.000	
Aromatic C12-C16	51756513.000	26214353.000	10660566.000	5474983.000	2683618.000	
Aromatic C16-C21	64464447.000	32614919.000	13171585.000	6675037.000	3268126.000	
Aromatic C21-C36	134161995.000	67904676.000	27627174.000	14154223.000	6877987.000	
Aromatic EPH	284943036.000	144147072.000	58521394.000	29906903.000	14603702.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	176202.694	1.627				
Aromatic C12-C16	177273.4926664	2.167				
Aromatic C16-C21	163832.55	1.288				
Aromatic C21-C36	152713.1526664	2.017				
Aromatic EPH	161887.4688884	1.816				

Concentration

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.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	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	172800.405000	174131.240000	176551.725000	180133.000000	177397.100000	
Aromatic C12-C16	172521.710000	174762.353333	177676.100000	182499.433333	178907.866666	
Aromatic C16-C21	161161.117500	163074.595000	164644.812500	166875.925000	163406.300000	
Aromatic C21-C36	149068.883333	150899.280000	153484.300000	157269.144444	152844.155555	
Aromatic EPH	158301.686666	160163.413333	162559.427777	166149.461111	162263.355555	

Lab Sample ID: 100 PPM AROMATIC HC

Acq On: 23 Oct 2024 15:12

Client Sample ID:

Operator: YP/AJ

Data file: FD048568.D

Misc:

Instrument: FID_D

ALS Vial: 61

Dilution Factor: 1

Sample Multiplier: 1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	34560081.000	200.000	ug/ml
Aromatic C12-C16	5.814	8.419	51756513.000	300.000	ug/ml
Aromatic C16-C21	8.420	12.681	64464447.000	400.000	ug/ml
Aromatic C21-C36	12.682	18.087	134161995.000	900.000	ug/ml
Aromatic EPH	4.095	18.087	284943036.000	1800.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
 Data File : FD048568.D
 Signal(s) : FID2B.ch
 Acq On : 23 Oct 2024 15:12
 Operator : YP/AJ
 Sample : 100 PPM AROMATIC HC STD1
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 100 PPM AROMATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 23 17:13:28 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:09:25 2024
 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...	7.379	14919837	98.962 ug/ml
Spiked Amount 50.000		Recovery =	197.92%
6) S 2-Fluorobiphenyl (SURR)	8.230	10015694	100.124 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	200.25%#
11) S ortho-Terphenyl (SURR)	11.267	16385129	98.289 ug/ml
Spiked Amount 50.000		Recovery =	196.58%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.199	16947170	98.911 ug/ml
2) T Naphthalene (C11.7)	5.719	17612911	98.941 ug/ml
3) T 2-Methylnaphthalene (...)	6.767	17624448	99.004 ug/ml
5) T Acenaphthylene (C15.06)	8.034	17045088	98.400 ug/ml
7) T Acenaphthene (C15.5)	8.331	17086977	98.169 ug/ml
8) T Fluorene (C16.55)	9.109	16673063	98.964 ug/ml
9) T Phenanthrene (C19.36)	10.496	16410378	99.314 ug/ml
10) T Anthracene (C19.43)	10.573	15569819	98.435 ug/ml
12) T Fluoranthene (C21.85)	12.302	15981856	98.532 ug/ml
13) T Pyrene (C20.8)	12.596	15811187	98.991 ug/ml
14) T Benzo[a]anthracene (C...	14.466	14979852	100.189 ug/ml
15) T Chrysene (C27.41)	14.512	15332543	97.081 ug/ml
16) T benzo[b]fluoranthene ...	16.016	15350623	99.928 ug/ml
17) T Bnezo[k]fluoranthene ...	16.054	14161475	97.899 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.395	14921521	99.306 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.761	14261058	103.933 ug/ml
20) T Dibenz[a,h]anthracene...	17.801	14330700	95.355 ug/ml
21) T Benzo[g,h,i]perylene ...	18.019	14842367	98.211 ug/ml

(f)=RT Delta > 1/2 Window

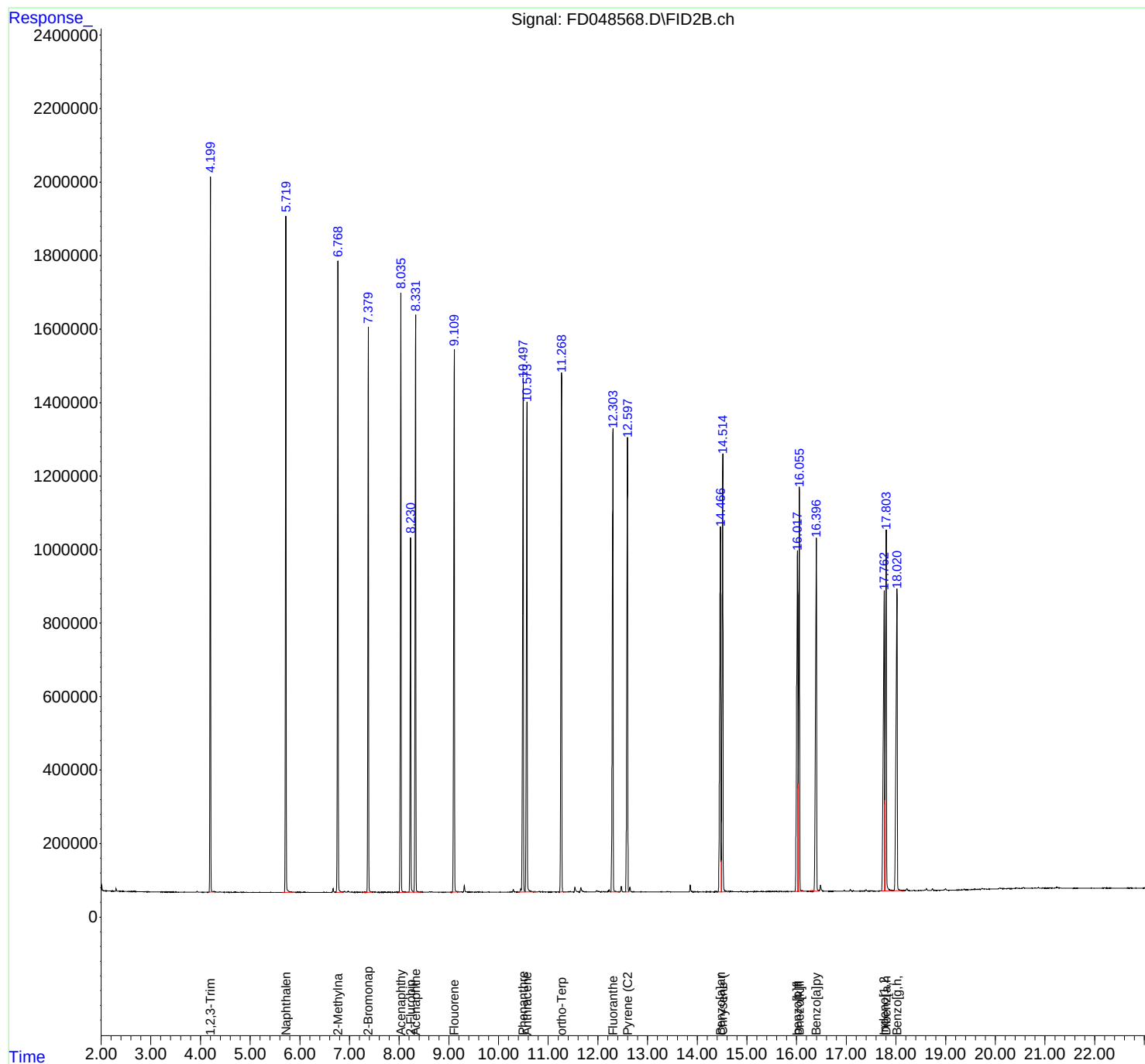
(m)=manual int.

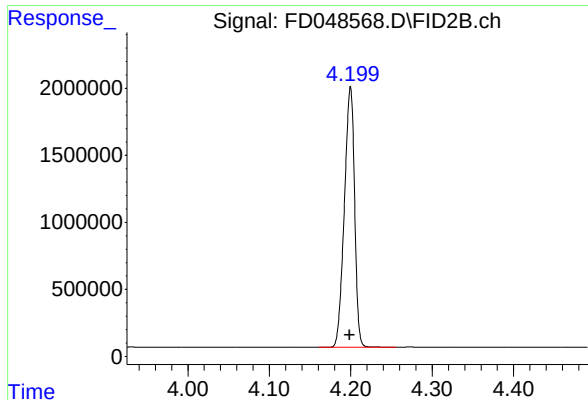
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





#1 1,2,3-Trimethylbenzene (C10.1)

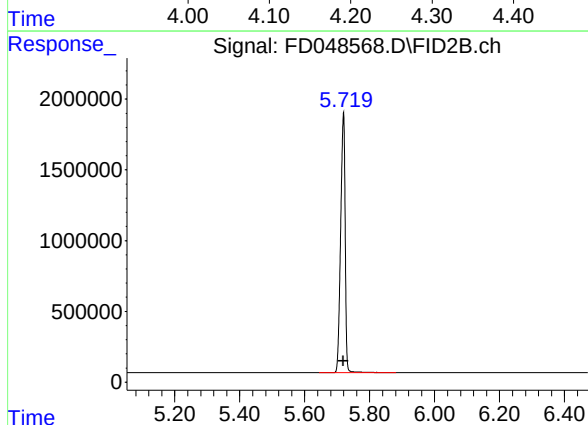
R.T.: 4.199 min
Delta R.T.: 0.000 min
Response: 16947170
Conc: 98.91 ug/ml

Instrument :

FID_D

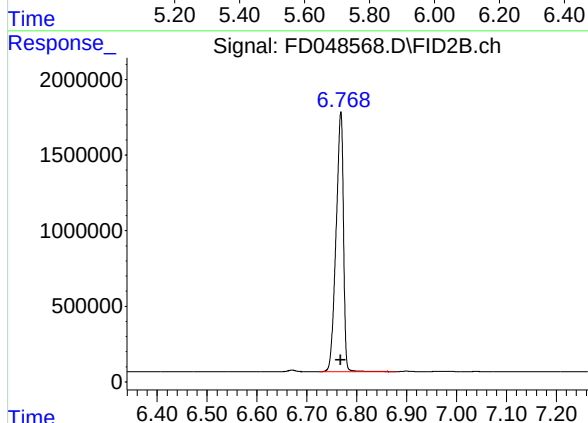
ClientSampleId :

100 PPM AROMATIC HC STD1



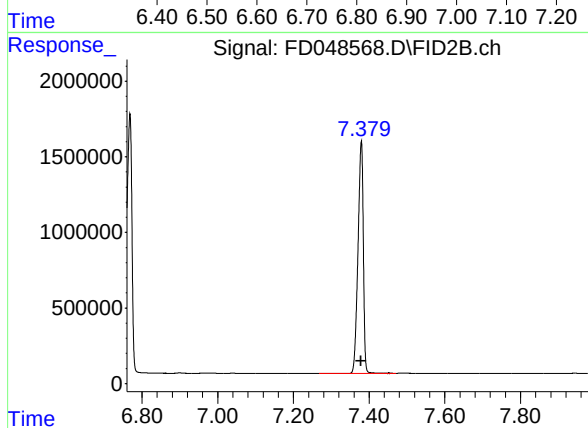
#2 Naphthalene (C11.7)

R.T.: 5.719 min
Delta R.T.: 0.000 min
Response: 17612911
Conc: 98.94 ug/ml



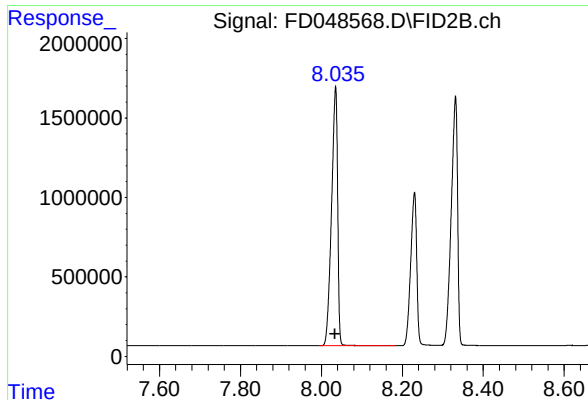
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.767 min
Delta R.T.: 0.000 min
Response: 17624448
Conc: 99.00 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.379 min
Delta R.T.: 0.000 min
Response: 14919837
Conc: 98.96 ug/ml



#5 Acenaphthylene (C15.06)

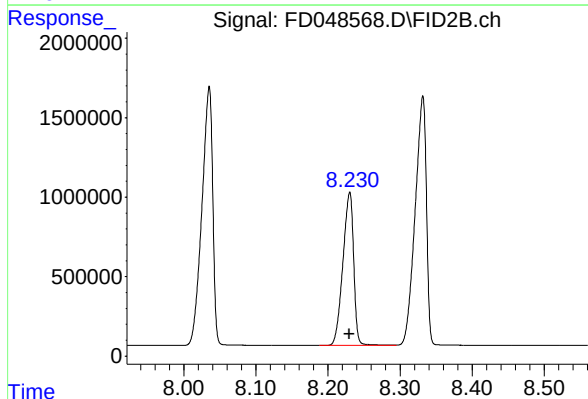
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 17045088
Conc: 98.40 ug/ml

Instrument :

FID_D

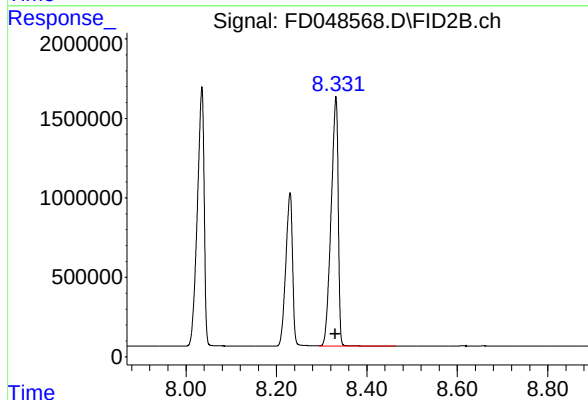
ClientSampleId :

100 PPM AROMATIC HC STD1



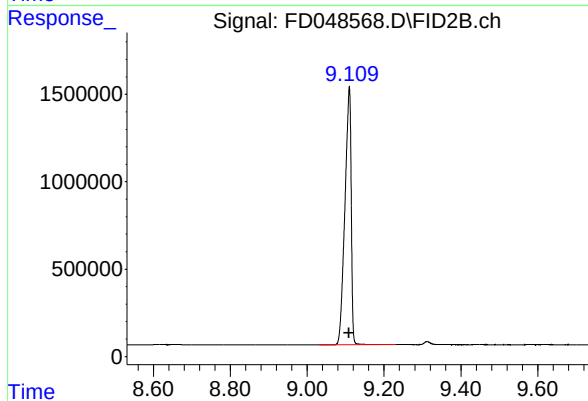
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.230 min
Delta R.T.: 0.000 min
Response: 10015694
Conc: 100.12 ug/ml



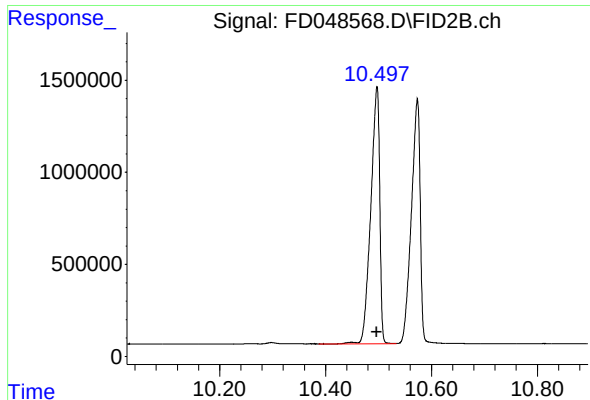
#7 Acenaphthene (C15.5)

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 17086977
Conc: 98.17 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.109 min
Delta R.T.: 0.000 min
Response: 16673063
Conc: 98.96 ug/ml



#9 Phenanthrene (C19.36)

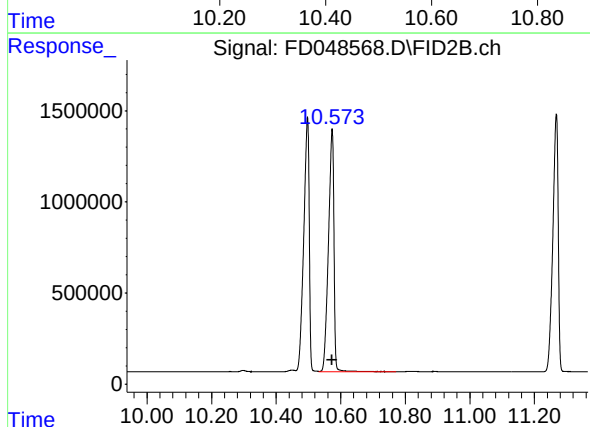
R.T.: 10.496 min
Delta R.T.: 0.000 min
Response: 16410378
Conc: 99.31 ug/ml

Instrument :

FID_D

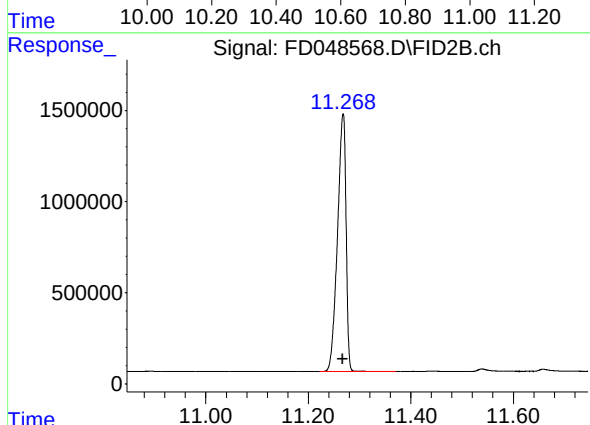
ClientSampleId :

100 PPM AROMATIC HC STD1



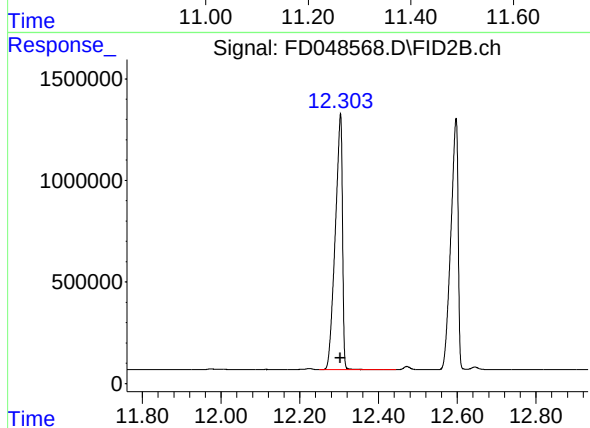
#10 Anthracene (C19.43)

R.T.: 10.573 min
Delta R.T.: 0.000 min
Response: 15569819
Conc: 98.44 ug/ml



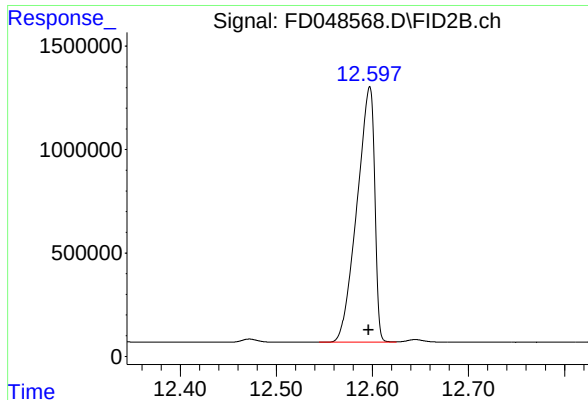
#11 ortho-Terphenyl (SURR)

R.T.: 11.267 min
Delta R.T.: 0.000 min
Response: 16385129
Conc: 98.29 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.302 min
Delta R.T.: 0.000 min
Response: 15981856
Conc: 98.53 ug/ml



#13 Pyrene (C20.8)

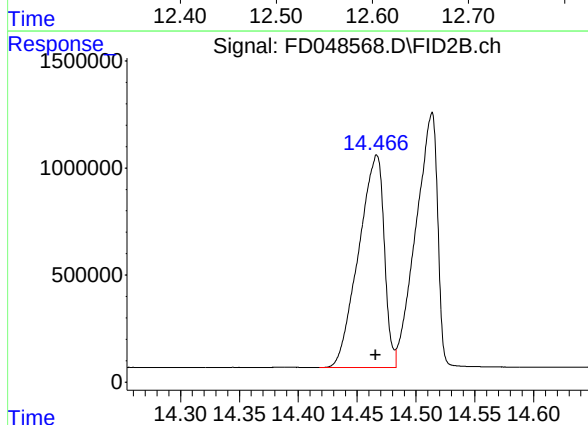
R.T.: 12.596 min
Delta R.T.: 0.000 min
Response: 15811187
Conc: 98.99 ug/ml

Instrument :

FID_D

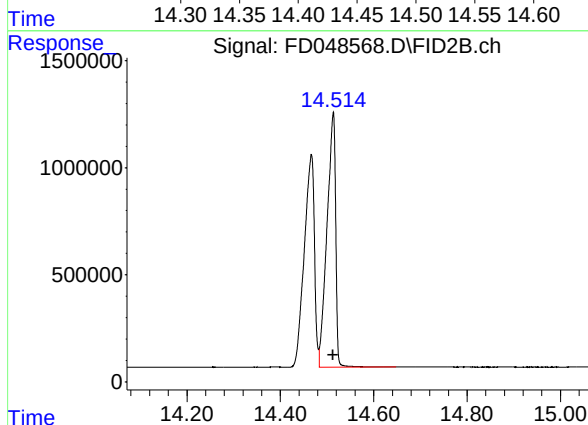
ClientSampleId :

100 PPM AROMATIC HC STD1



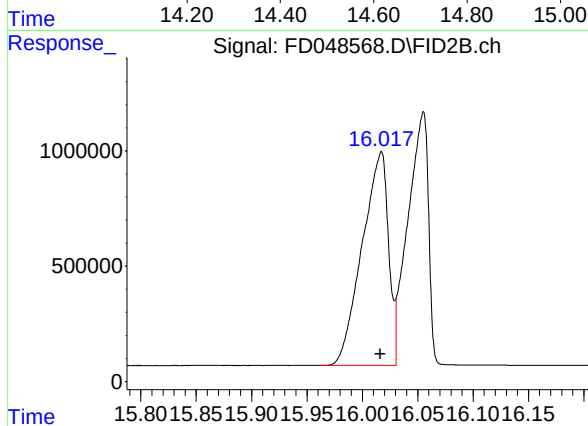
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.466 min
Delta R.T.: 0.000 min
Response: 14979852
Conc: 100.19 ug/ml



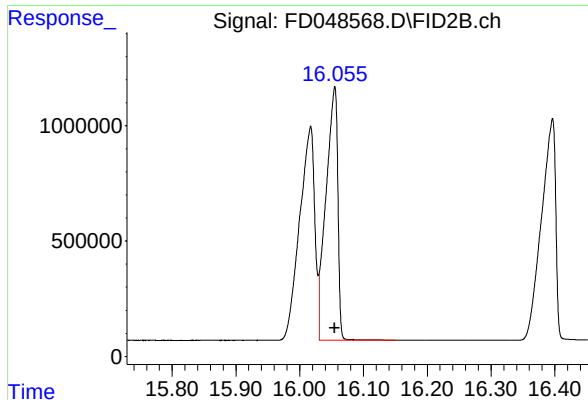
#15 Chrysene (C27.41)

R.T.: 14.512 min
Delta R.T.: 0.000 min
Response: 15332543
Conc: 97.08 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.016 min
Delta R.T.: 0.000 min
Response: 15350623
Conc: 99.93 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

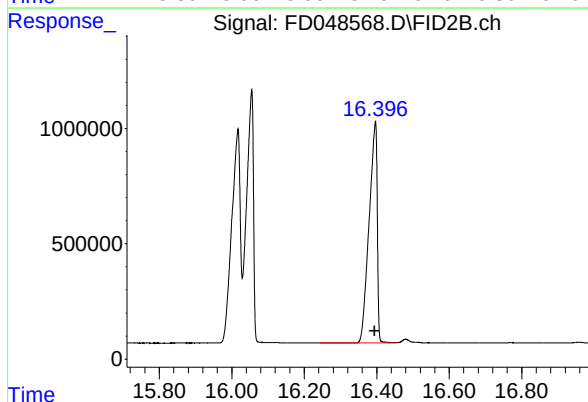
R.T.: 16.054 min
Delta R.T.: -0.001 min
Response: 14161475
Conc: 97.90 ug/ml

Instrument :

FID_D

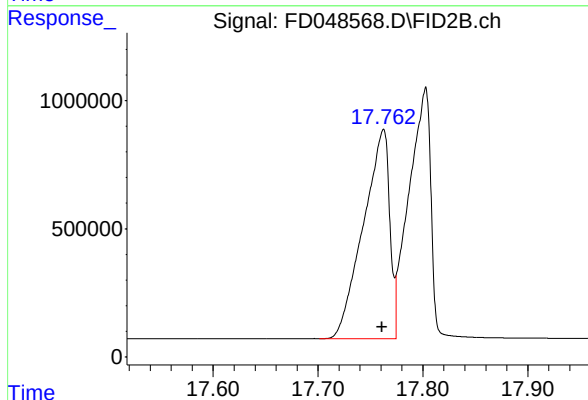
ClientSampleId :

100 PPM AROMATIC HC STD1



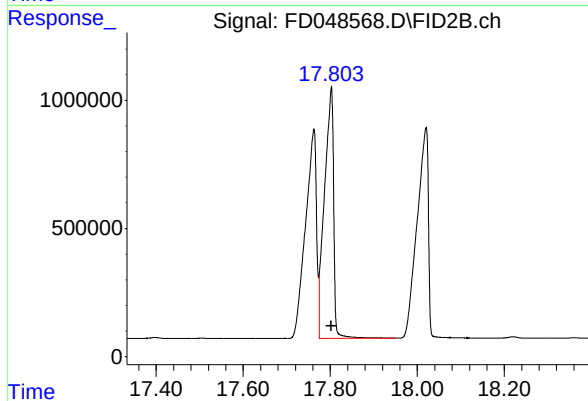
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.395 min
Delta R.T.: 0.000 min
Response: 14921521
Conc: 99.31 ug/ml



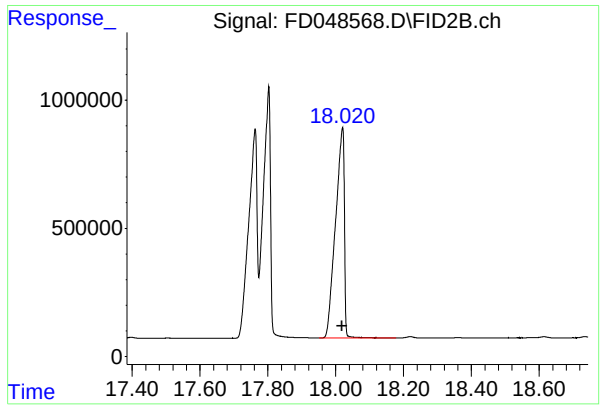
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.761 min
Delta R.T.: 0.000 min
Response: 14261058
Conc: 103.93 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.801 min
Delta R.T.: -0.002 min
Response: 14330700
Conc: 95.35 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.019 min
Delta R.T.: 0.000 min
Response: 14842367
Conc: 98.21 ug/ml

Instrument :

FID_D

ClientSampleId :

100 PPM AROMATIC HC STD1

A
B
C
D
E
F

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.199	4.161	4.256	BV	1903452	16947170	96.16%	5.194%
2	5.719	5.644	5.881	BV	1794310	17612911	99.93%	5.398%
3	6.767	6.724	6.878	PV	1721582	17624448	100.00%	5.402%
4	7.379	7.268	7.471	PV	1511924	14919837	84.65%	4.573%
5	8.034	7.994	8.184	BB	1618840	17045088	96.71%	5.224%
6	8.230	8.188	8.294	BV	985430	10015694	56.83%	3.070%
7	8.331	8.294	8.464	VB	1571009	17086977	96.95%	5.237%
8	9.109	9.031	9.231	BB	1435050	16673063	94.60%	5.110%
9	10.496	10.388	10.533	BV	1431777	16410378	93.11%	5.030%
10	10.573	10.533	10.771	VB	1362012	15569819	88.34%	4.772%
11	11.267	11.221	11.371	BV	1423748	16385129	92.97%	5.022%
12	12.302	12.249	12.444	VV	1225147	15981856	90.68%	4.898%
13	12.596	12.544	12.624	BV	1267297	15811187	89.71%	4.846%
14	14.466	14.418	14.483	PV	976483	14979852	84.99%	4.591%
15	14.512	14.483	14.648	VB	1164623	15332543	87.00%	4.699%
16	16.016	15.961	16.031	BV	945594	15350623	87.10%	4.705%
17	16.054	16.031	16.151	VB	1101985	14161475	80.35%	4.340%
18	16.395	16.241	16.453	BV	941300	14921521	84.66%	4.573%
19	17.761	17.701	17.774	BV	810590	14261058	80.92%	4.371%
20	17.801	17.774	17.951	VV	963681	14330700	81.31%	4.392%
21	18.019	17.951	18.178	VV	811340	14842367	84.21%	4.549%
Sum of corrected areas:						326263695		

Aromatic EPH 102324.M Wed Oct 23 18:16:59 2024

Lab Sample ID:	50 PPM AROMATIC HC	Acq On:	23 Oct 2024 15:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048569.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	17413124.000	100.000	ug/ml
Aromatic C12-C16	5.814	8.419	26214353.000	150.000	ug/ml
Aromatic C16-C21	8.420	12.681	32614919.000	200.000	ug/ml
Aromatic C21-C36	12.682	18.087	67904676.000	450.000	ug/ml
Aromatic EPH	4.095	18.087	144147072.000	900.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
 Data File : FD048569.D
 Signal(s) : FID2B.ch
 Acq On : 23 Oct 2024 15:48
 Operator : YP/AJ
 Sample : 50 PPM AROMATIC HC STD2
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 50 PPM AROMATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 23 17:15:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:09:25 2024
 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...	7.375	7529591	49.962 ug/ml
Spiked Amount 50.000		Recovery =	99.92%
6) S 2-Fluorobiphenyl (SURR)	8.225	5021501	50.132 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	100.26%
11) S ortho-Terphenyl (SURR)	11.261	8334280	49.996 ug/ml
Spiked Amount 50.000		Recovery =	99.99%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.196	8539641	49.894 ug/ml
2) T Naphthalene (C11.7)	5.715	8873483	49.898 ug/ml
3) T 2-Methylnaphthalene (...)	6.762	8891978	49.967 ug/ml
5) T Acenaphthylene (C15.06)	8.029	8649197	49.954 ug/ml
7) T Acenaphthene (C15.5)	8.324	8673178	49.886 ug/ml
8) T Fluorene (C16.55)	9.102	8428307	50.018 ug/ml
9) T Phenanthrene (C19.36)	10.489	8272929	50.044 ug/ml
10) T Anthracene (C19.43)	10.565	7888616	49.915 ug/ml
12) T Fluoranthene (C21.85)	12.294	8076662	49.863 ug/ml
13) T Pyrene (C20.8)	12.587	8025067	50.162 ug/ml
14) T Benzo[a]anthracene (C...	14.456	7527575	50.230 ug/ml
15) T Chrysene (C27.41)	14.500	7833293	49.731 ug/ml
16) T benzo[b]fluoranthene ...	16.005	7671770	49.961 ug/ml
17) T Bnezo[k]fluoranthene ...	16.039	7231888	49.599 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.381	7547267	50.152 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.747	6949708	50.431 ug/ml
20) T Dibenz[a,h]anthracene...	17.785	7539487	49.466 ug/ml
21) T Benzo[g,h,i]perylene ...	18.000	7527026	49.870 ug/ml

(f)=RT Delta > 1/2 Window

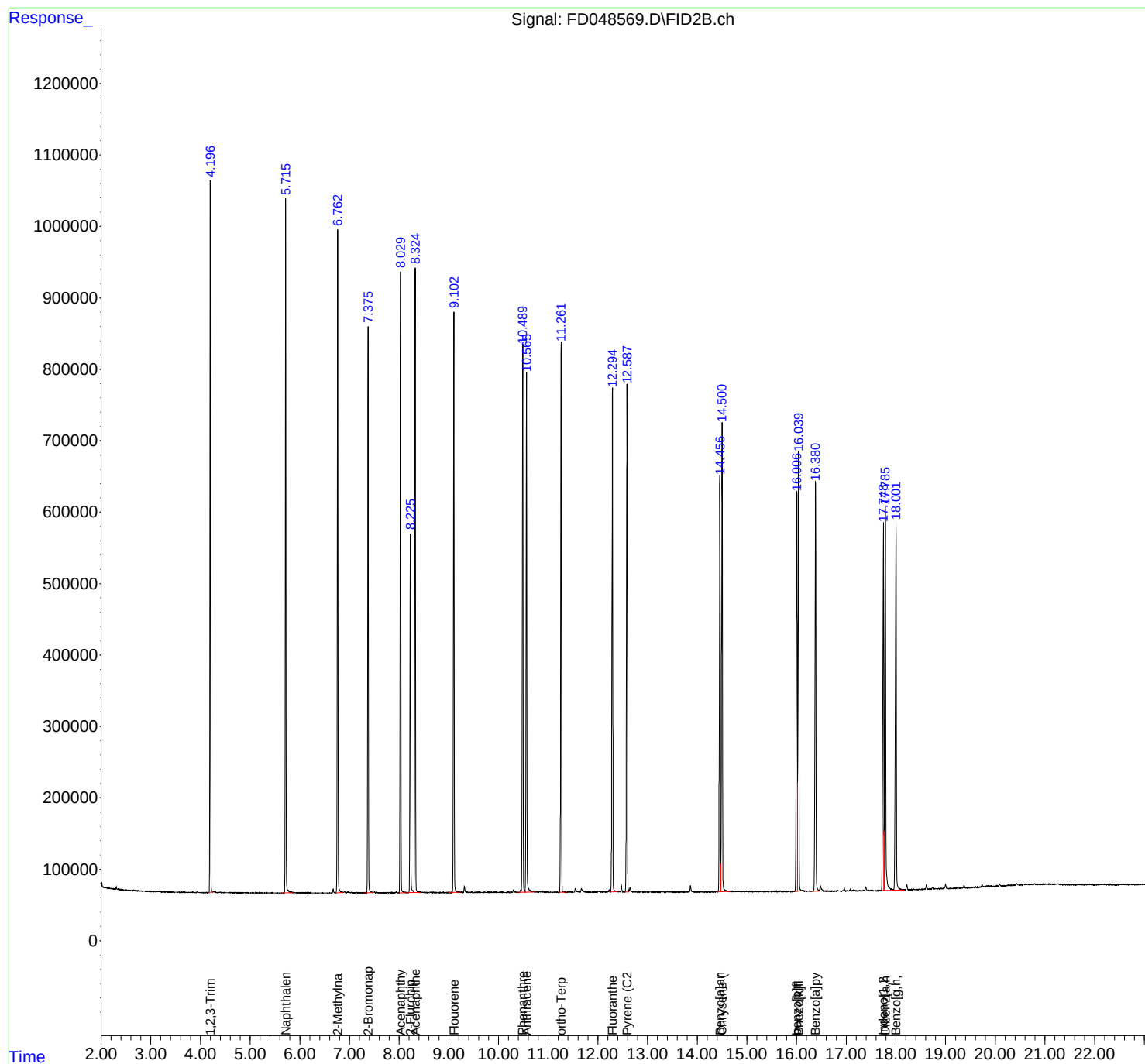
(m)=manual int.

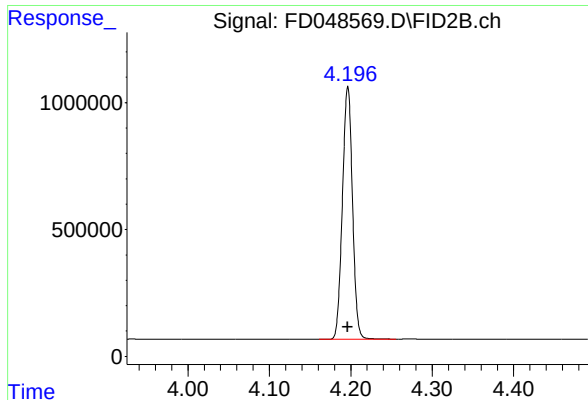
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:15:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

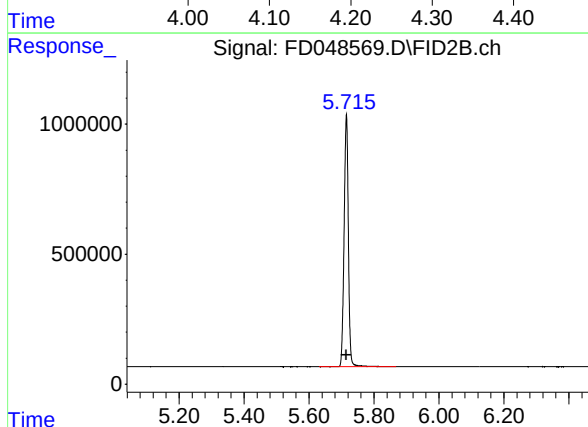




#1 1,2,3-Trimethylbenzene (C10.1)

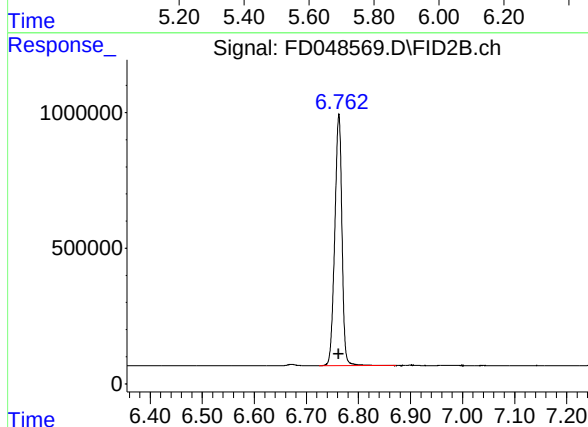
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 8539641
Conc: 49.89 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



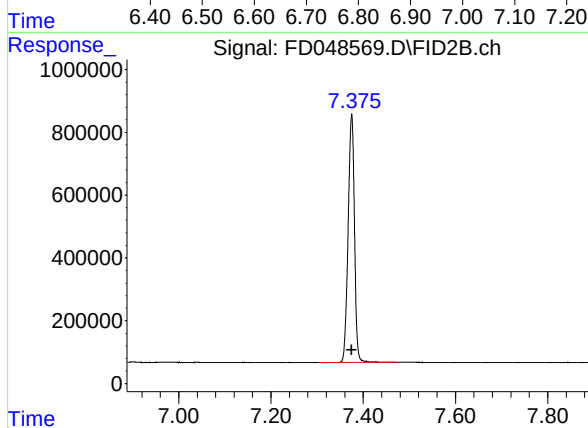
#2 Naphthalene (C11.7)

R.T.: 5.715 min
Delta R.T.: 0.000 min
Response: 8873483
Conc: 49.90 ug/ml



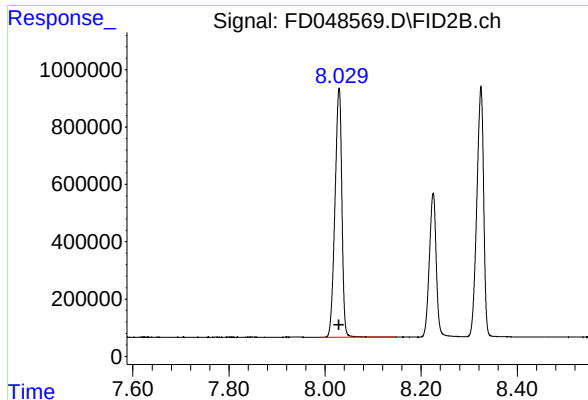
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.762 min
Delta R.T.: 0.000 min
Response: 8891978
Conc: 49.97 ug/ml



#4 2-Bromonaphthalene (SURR)

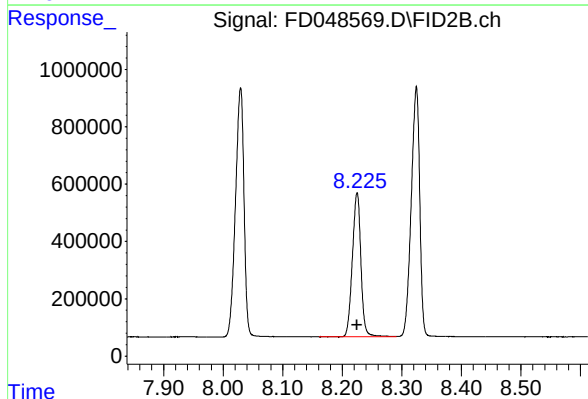
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 7529591
Conc: 49.96 ug/ml



#5 Acenaphthylene (C15.06)

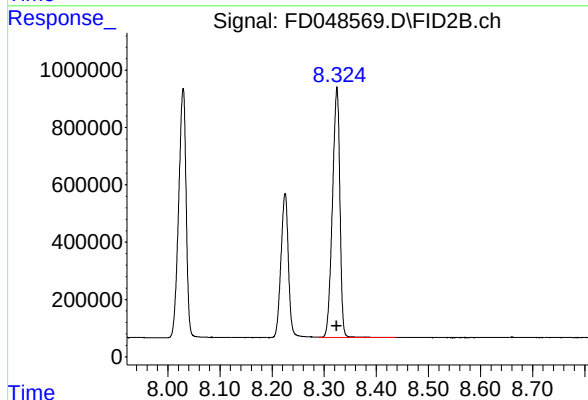
R.T.: 8.029 min
Delta R.T.: 0.000 min
Response: 8649197
Conc: 49.95 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



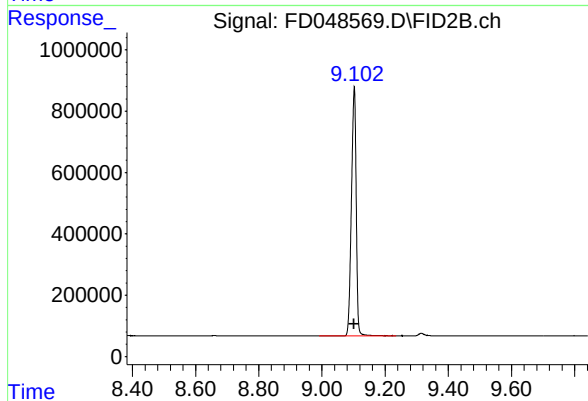
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.225 min
Delta R.T.: 0.000 min
Response: 5021501
Conc: 50.13 ug/ml



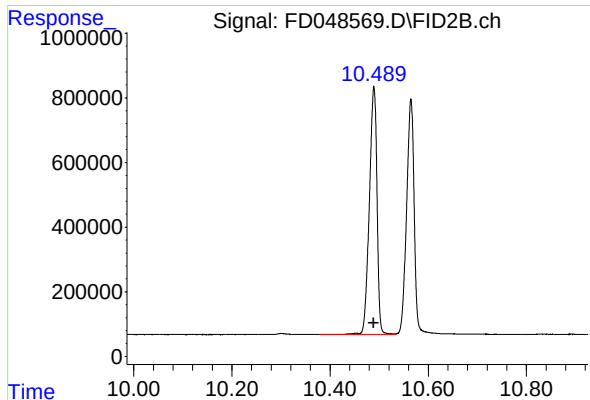
#7 Acenaphthene (C15.5)

R.T.: 8.324 min
Delta R.T.: 0.000 min
Response: 8673178
Conc: 49.89 ug/ml



#8 Flouorene (C16.55)

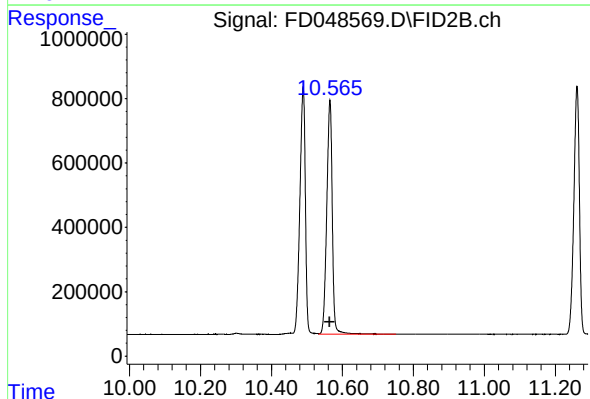
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 8428307
Conc: 50.02 ug/ml



#9 Phenanthrene (C19.36)

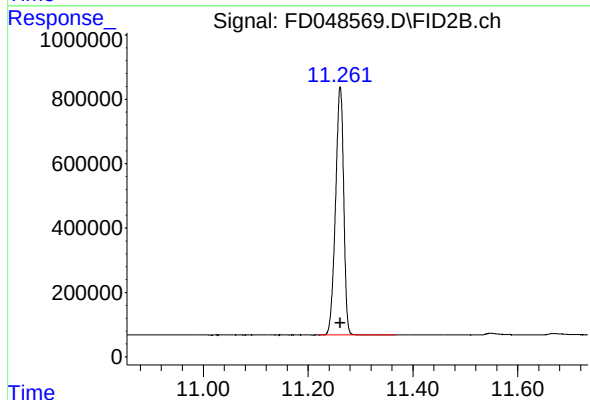
R.T.: 10.489 min
Delta R.T.: 0.000 min
Response: 8272929
Conc: 50.04 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



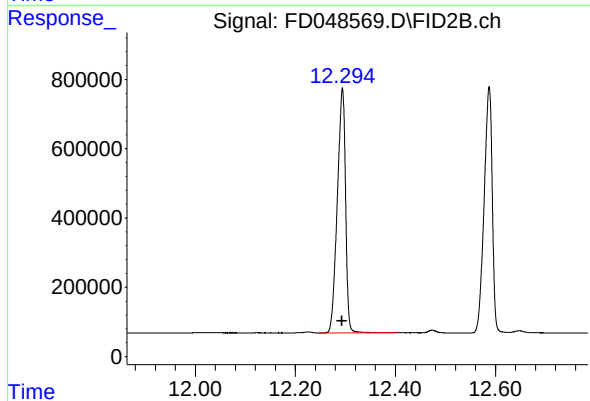
#10 Anthracene (C19.43)

R.T.: 10.565 min
Delta R.T.: 0.000 min
Response: 7888616
Conc: 49.92 ug/ml



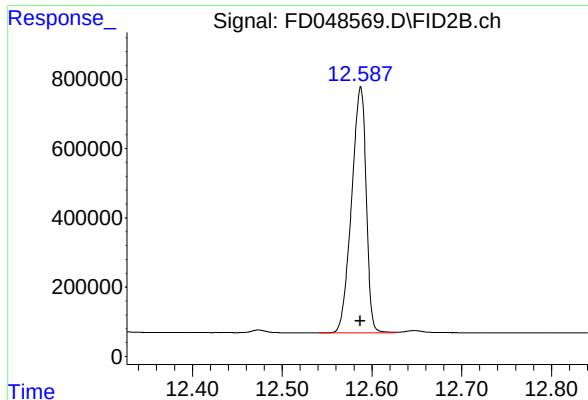
#11 ortho-Terphenyl (SURRE)

R.T.: 11.261 min
Delta R.T.: 0.000 min
Response: 8334280
Conc: 50.00 ug/ml



#12 Fluoranthene (C21.85)

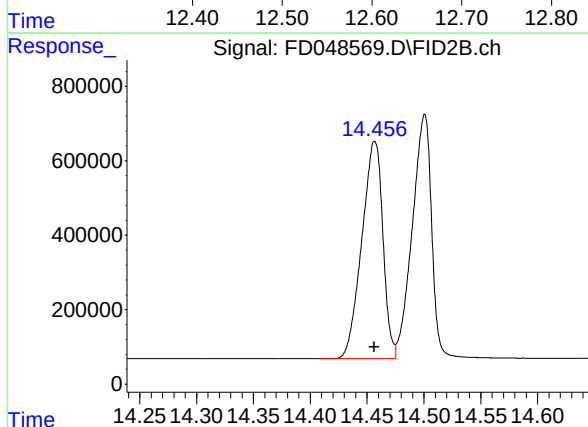
R.T.: 12.294 min
Delta R.T.: 0.000 min
Response: 8076662
Conc: 49.86 ug/ml



#13 Pyrene (C20.8)

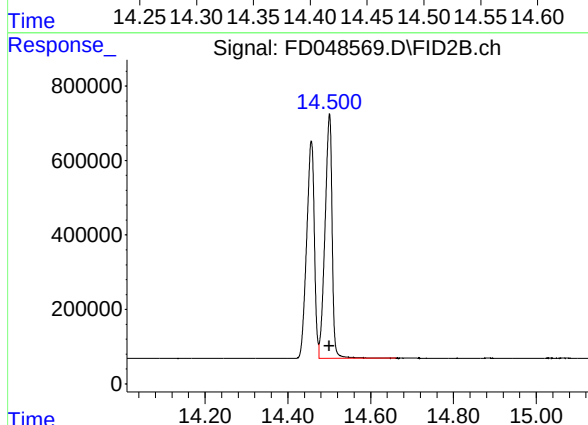
R.T.: 12.587 min
Delta R.T.: 0.000 min
Response: 8025067
Conc: 50.16 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



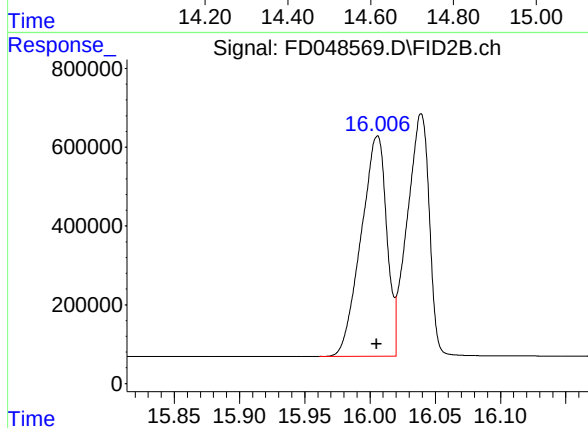
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.456 min
Delta R.T.: 0.000 min
Response: 7527575
Conc: 50.23 ug/ml



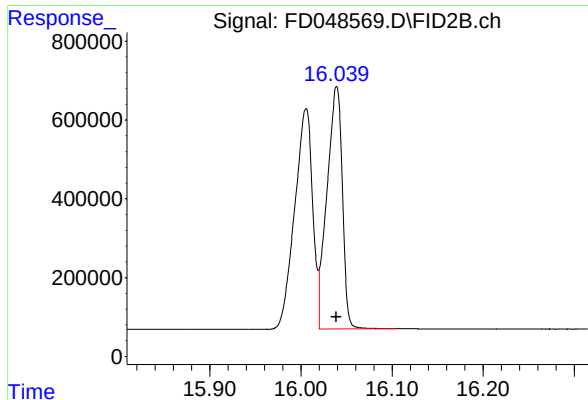
#15 Chrysene (C27.41)

R.T.: 14.500 min
Delta R.T.: 0.000 min
Response: 7833293
Conc: 49.73 ug/ml



#16 benzo[b]fluoranthene (C30.41)

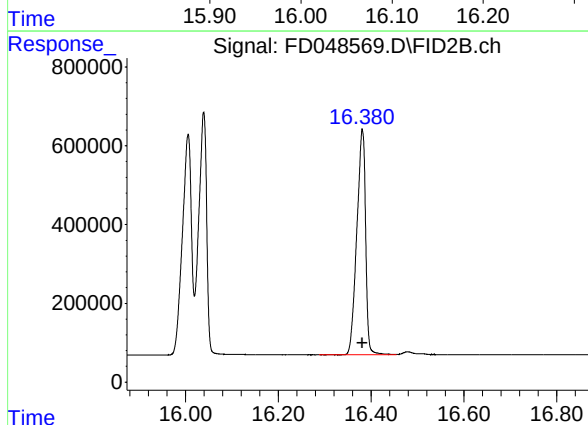
R.T.: 16.005 min
Delta R.T.: 0.000 min
Response: 7671770
Conc: 49.96 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

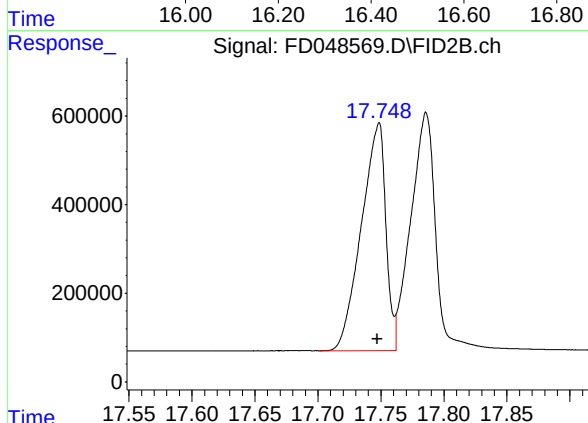
R.T.: 16.039 min
Delta R.T.: 0.000 min
Response: 7231888
Conc: 49.60 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



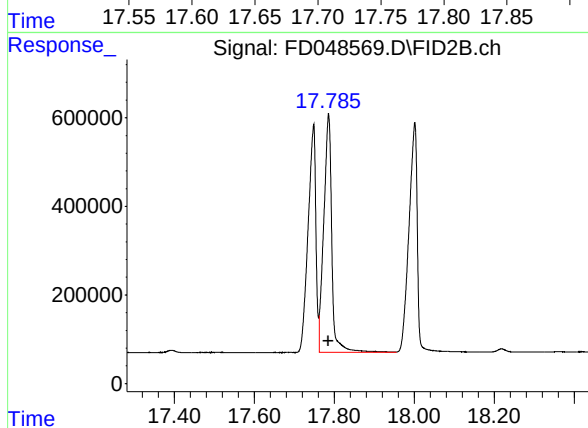
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 7547267
Conc: 50.15 ug/ml



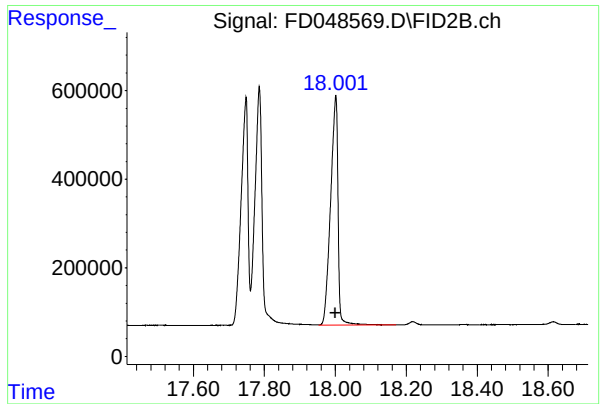
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.747 min
Delta R.T.: 0.000 min
Response: 6949708
Conc: 50.43 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.785 min
Delta R.T.: 0.000 min
Response: 7539487
Conc: 49.47 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.000 min
Delta R.T.: 0.000 min
Response: 7527026
Conc: 49.87 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

A
B
C
D
E
F

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.196	4.161	4.255	BV	998732	8539641	96.04%	5.175%
2	5.715	5.631	5.868	BB	961300	8873483	99.79%	5.377%
3	6.762	6.724	6.872	PV	916254	8891978	100.00%	5.388%
4	7.375	7.304	7.471	BB	788165	7529591	84.68%	4.562%
5	8.029	7.988	8.148	BB	861509	8649197	97.27%	5.241%
6	8.225	8.161	8.290	BV	502069	5021501	56.47%	3.043%
7	8.324	8.290	8.438	VB	874209	8673178	97.54%	5.255%
8	9.102	8.991	9.234	BV	799296	8428307	94.79%	5.107%
9	10.489	10.378	10.534	BV	757282	8272929	93.04%	5.013%
10	10.565	10.534	10.751	VB	727764	7888616	88.72%	4.780%
11	11.261	11.221	11.368	BB	773174	8334280	93.73%	5.050%
12	12.294	12.247	12.401	PB	711390	8076662	90.83%	4.894%
13	12.587	12.541	12.627	BV	714458	8025067	90.25%	4.863%
14	14.456	14.408	14.475	PV	588127	7527575	84.66%	4.561%
15	14.500	14.475	14.661	VB	663541	7833293	88.09%	4.747%
16	16.005	15.961	16.020	BV	559367	7671770	86.28%	4.649%
17	16.039	16.020	16.104	VV	611862	7231888	81.33%	4.382%
18	16.381	16.288	16.453	BV	574389	7547267	84.88%	4.573%
19	17.747	17.701	17.762	BV	512967	6949708	78.16%	4.211%
20	17.785	17.762	17.954	VV	532723	7539487	84.79%	4.568%
21	18.000	17.954	18.171	VV	519884	7527026	84.65%	4.561%
Sum of corrected areas:						165032443		

Aromatic EPH 102324.M Wed Oct 23 18:18:22 2024

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	23 Oct 2024 16:25
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048570.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	7062069.000	40.000	ug/ml
Aromatic C12-C16	5.814	8.419	10660566.000	60.000	ug/ml
Aromatic C16-C21	8.420	12.681	13171585.000	80.000	ug/ml
Aromatic C21-C36	12.682	18.087	27627174.000	180.000	ug/ml
Aromatic EPH	4.095	18.087	58521394.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
 Data File : FD048570.D
 Signal(s) : FID2B.ch
 Acq On : 23 Oct 2024 16:25
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD3
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 23 17:10:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:09:25 2024
 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...	7.372	3046545	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
6) S 2-Fluorobiphenyl (SURR)	8.222	1998164	20.000 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.00%
11) S ortho-Terphenyl (SURR)	11.258	3391146	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.195	3464073	20.000 ug/ml
2) T Naphthalene (C11.7)	5.713	3597996	20.000 ug/ml
3) T 2-Methylnaphthalene (...)	6.760	3595810	20.000 ug/ml
5) T Acenaphthylene (C15.06)	8.025	3519888	20.000 ug/ml
7) T Acenaphthene (C15.5)	8.319	3544868	20.000 ug/ml
8) T Fluorene (C16.55)	9.097	3404430	20.000 ug/ml
9) T Phenanthrene (C19.36)	10.485	3327445	20.000 ug/ml
10) T Anthracene (C19.43)	10.560	3212978	20.000 ug/ml
12) T Fluoranthene (C21.85)	12.288	3291616	20.000 ug/ml
13) T Pyrene (C20.8)	12.581	3226732	20.000 ug/ml
14) T Benzo[a]anthracene (C...	14.451	2984688	20.000 ug/ml
15) T Chrysene (C27.41)	14.492	3250919	20.000 ug/ml
16) T benzo[b]fluoranthene ...	15.997	3074553	20.000 ug/ml
17) T Bnezo[k]fluoranthene ...	16.027	3023398	20.000 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.372	3026012	20.000 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.737	2636324	20.000 ug/ml
20) T Dibenz[a,h]anthracene...	17.777	3263027	20.000 ug/ml
21) T Benzo[g,h,i]perylene ...	17.987	3076637	20.000 ug/ml

(f)=RT Delta > 1/2 Window

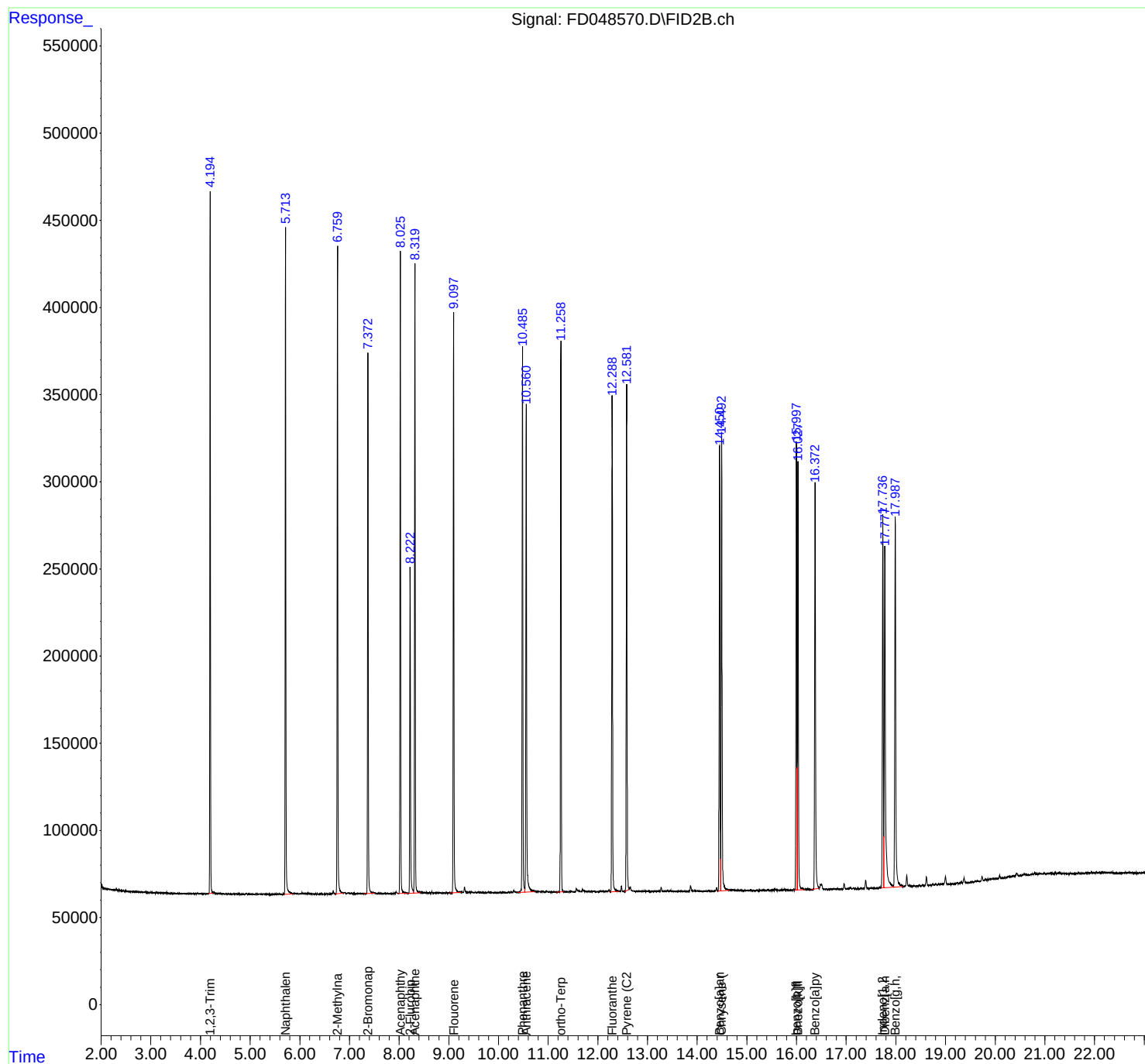
(m)=manual int.

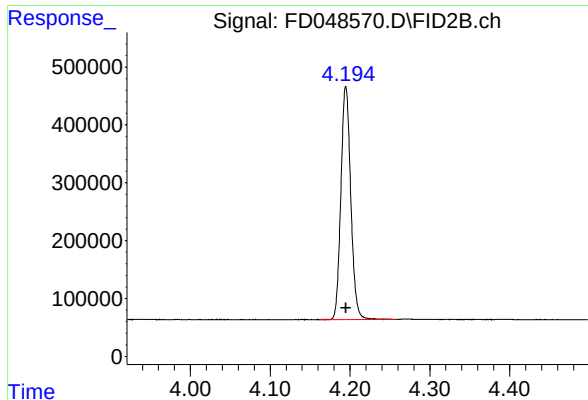
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:10:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

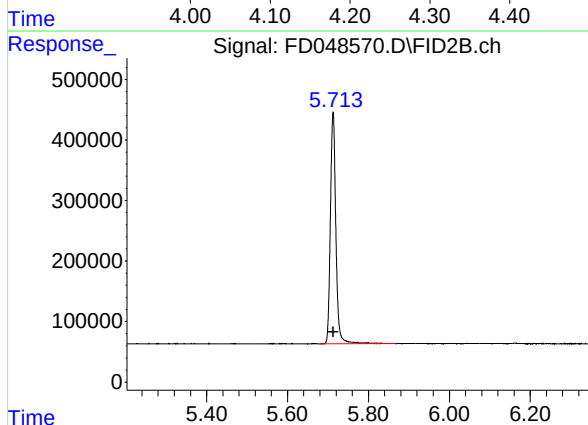




#1 1,2,3-Trimethylbenzene (C10.1)

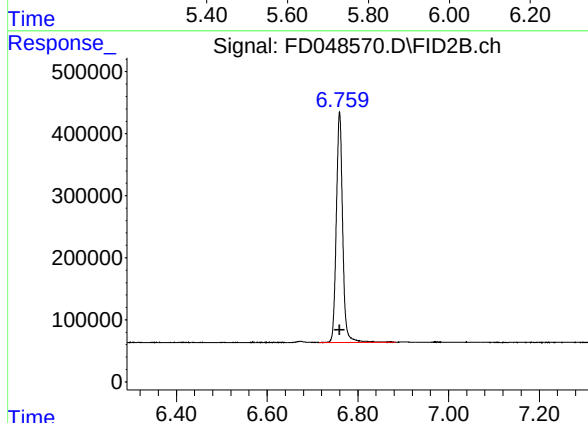
R.T.: 4.195 min
Delta R.T.: 0.000 min
Response: 3464073
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



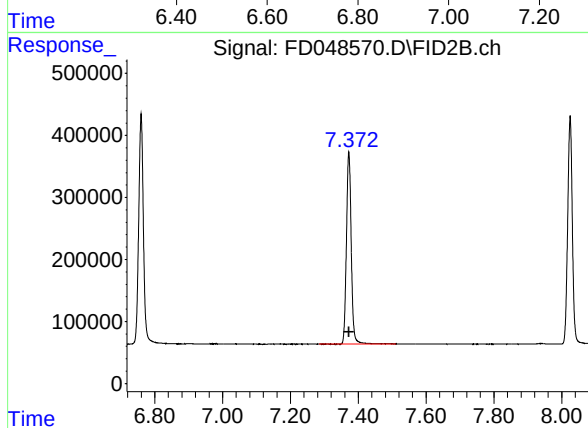
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 3597996
Conc: 20.00 ug/ml



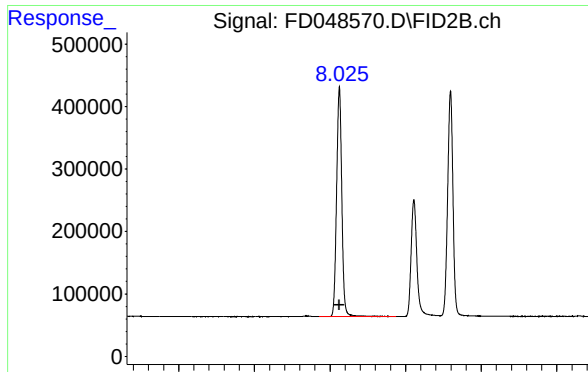
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: 0.000 min
Response: 3595810
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

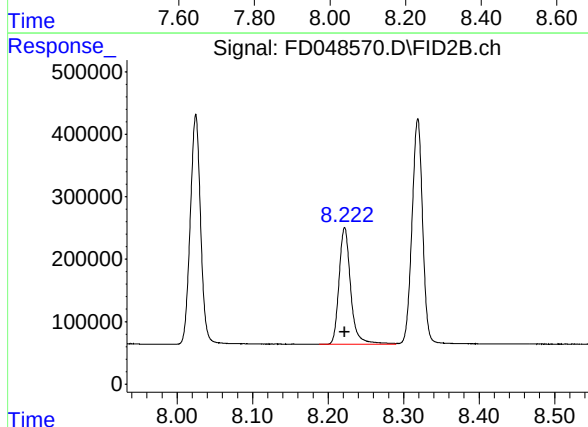
R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 3046545
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

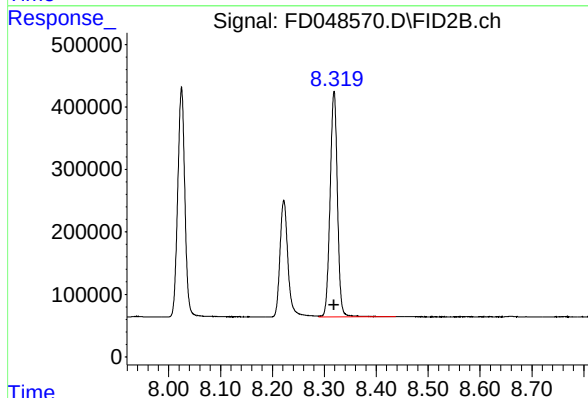
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 3519888
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



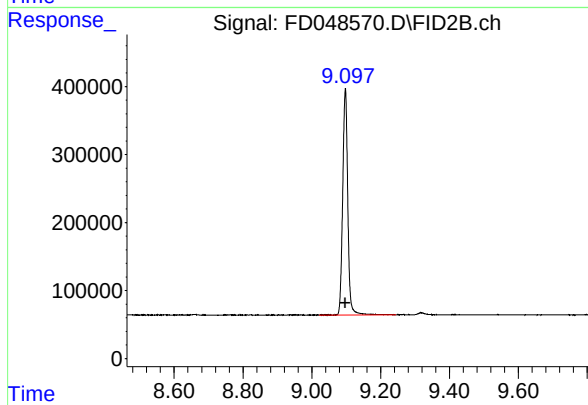
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: 0.000 min
Response: 1998164
Conc: 20.00 ug/ml



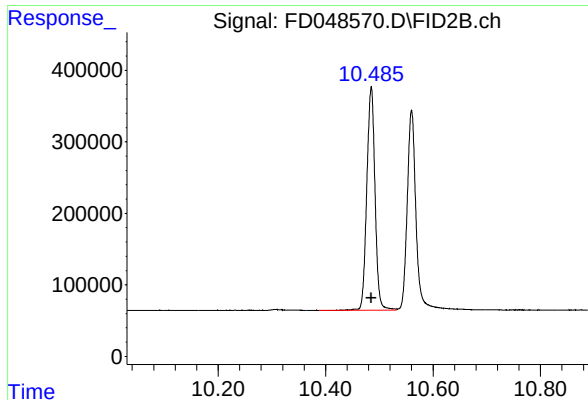
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 3544868
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

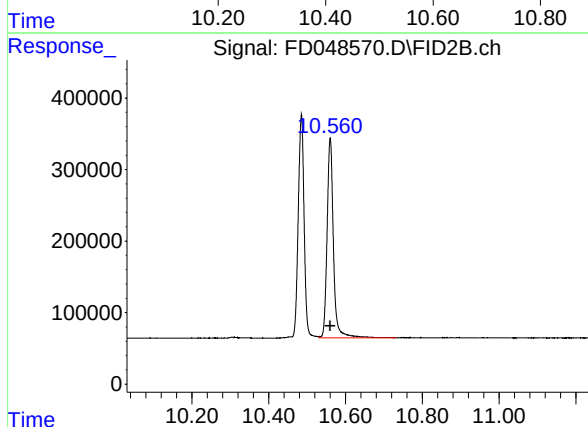
R.T.: 9.097 min
Delta R.T.: 0.000 min
Response: 3404430
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

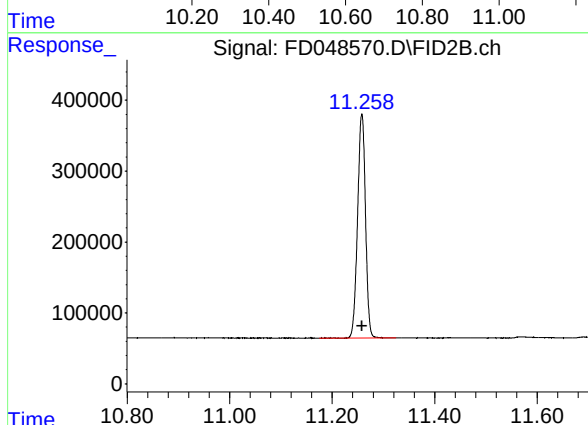
R.T.: 10.485 min
Delta R.T.: 0.000 min
Response: 3327445
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



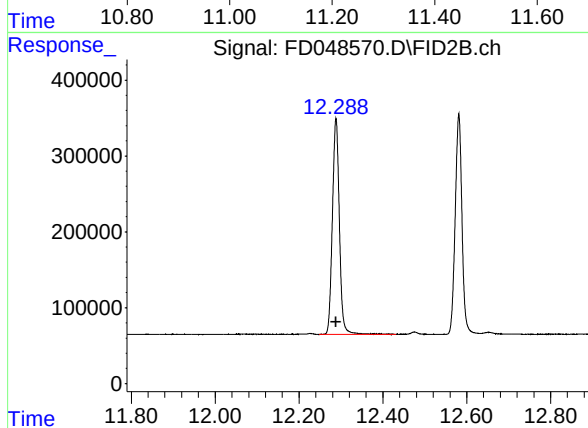
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: 0.000 min
Response: 3212978
Conc: 20.00 ug/ml



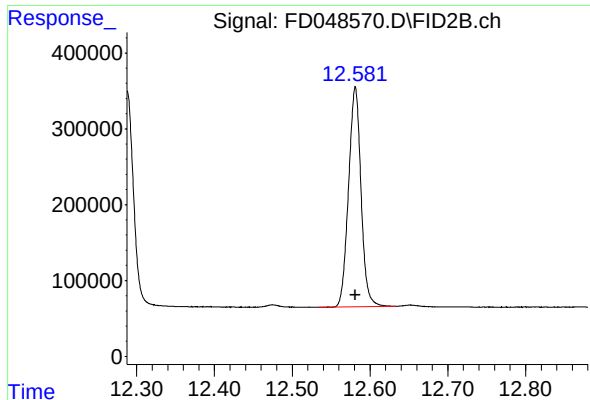
#11 ortho-Terphenyl (SURRE)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 3391146
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

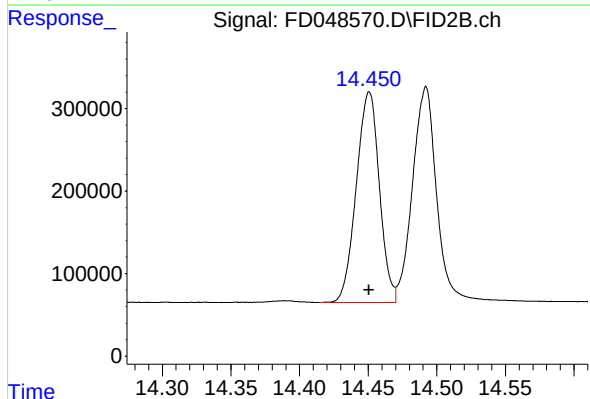
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 3291616
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

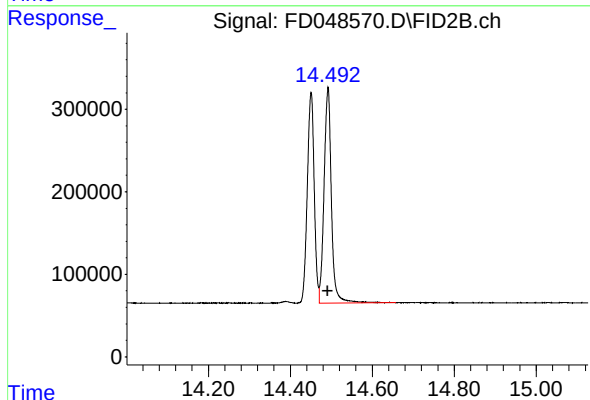
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 3226732
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



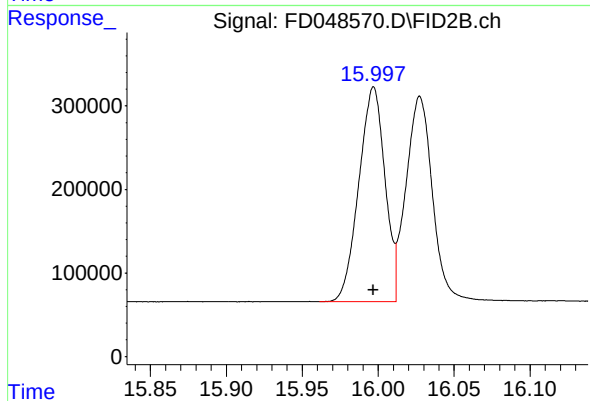
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.451 min
Delta R.T.: 0.000 min
Response: 2984688
Conc: 20.00 ug/ml



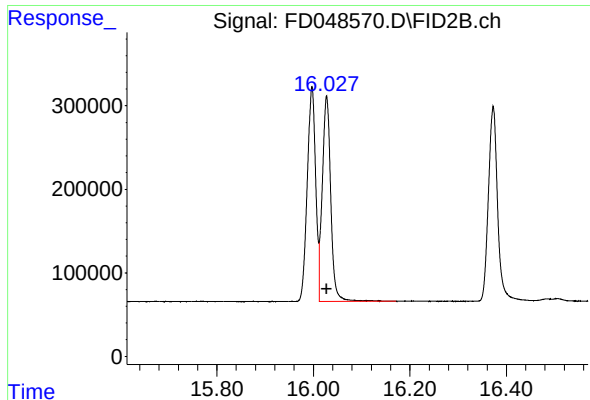
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: 0.000 min
Response: 3250919
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

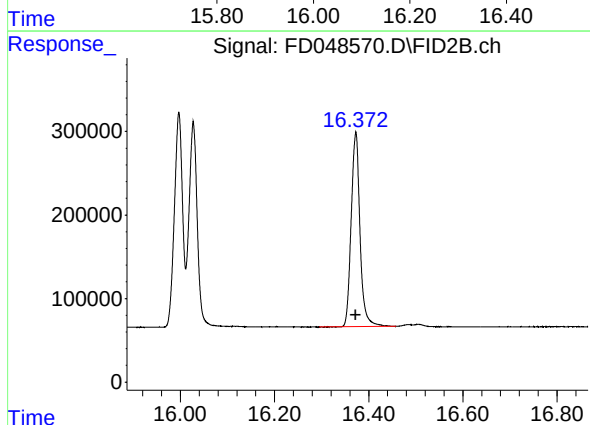
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3074553
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

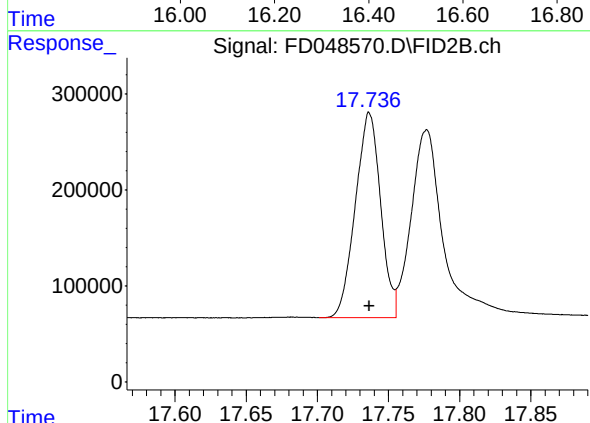
R.T.: 16.027 min
Delta R.T.: 0.000 min
Response: 3023398
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



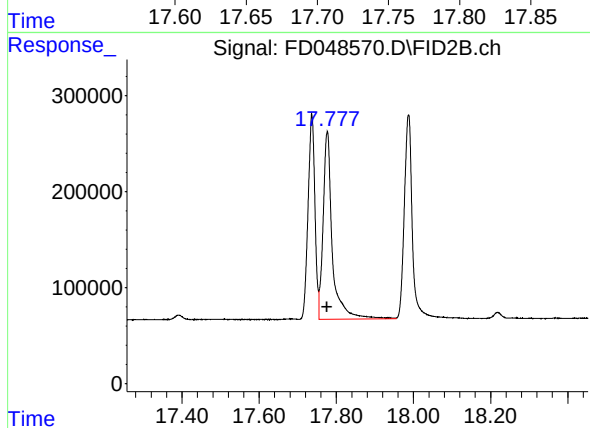
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.372 min
Delta R.T.: 0.000 min
Response: 3026012
Conc: 20.00 ug/ml



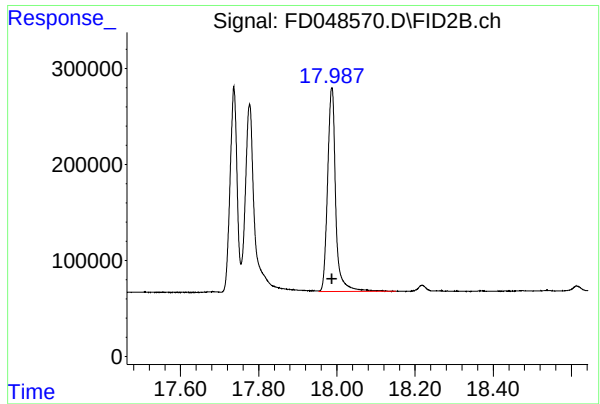
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 2636324
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.777 min
Delta R.T.: 0.000 min
Response: 3263027
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.987 min
Delta R.T.: 0.000 min
Response: 3076637
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.195	4.161	4.257	BV	402734	3464073	96.28%	5.174%
2	5.713	5.678	5.868	PB	378310	3597996	100.00%	5.374%
3	6.760	6.714	6.884	PV	369607	3595810	99.94%	5.370%
4	7.372	7.284	7.511	BB	309427	3046545	84.67%	4.550%
5	8.025	7.971	8.174	BV	366415	3519888	97.83%	5.257%
6	8.222	8.188	8.290	PV	185974	1998164	55.54%	2.984%
7	8.319	8.290	8.438	VB	358996	3544868	98.52%	5.294%
8	9.097	9.021	9.244	BB	332486	3404430	94.62%	5.084%
9	10.485	10.388	10.531	BV	311516	3327445	92.48%	4.970%
10	10.560	10.531	10.731	VB	280274	3212978	89.30%	4.799%
11	11.258	11.174	11.324	BB	316403	3391146	94.25%	5.065%
12	12.288	12.248	12.431	PB	284432	3291616	91.48%	4.916%
13	12.581	12.534	12.633	PV	290024	3226732	89.68%	4.819%
14	14.451	14.414	14.470	PV	256334	2984688	82.95%	4.458%
15	14.492	14.470	14.658	VB	259225	3250919	90.35%	4.855%
16	15.997	15.961	16.012	BV	257955	3074553	85.45%	4.592%
17	16.027	16.012	16.171	VB	245800	3023398	84.03%	4.515%
18	16.372	16.294	16.458	BV	230365	3026012	84.10%	4.519%
19	17.737	17.701	17.755	BV	213338	2636324	73.27%	3.937%
20	17.777	17.755	17.954	VV	197036	3263027	90.69%	4.873%
21	17.987	17.954	18.151	VB	213971	3076637	85.51%	4.595%
Sum of corrected areas:						66957247		

Aromatic EPH 102324.M Wed Oct 23 18:18:39 2024

Lab Sample ID:	10 PPM AROMATIC HC	Acq On:	23 Oct 2024 17:02
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048571.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	3602660.000	20.000	ug/ml
Aromatic C12-C16	5.814	8.419	5474983.000	30.000	ug/ml
Aromatic C16-C21	8.420	12.681	6675037.000	40.000	ug/ml
Aromatic C21-C36	12.682	18.087	14154223.000	90.000	ug/ml
Aromatic EPH	4.095	18.087	29906903.000	180.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
 Data File : FD048571.D
 Signal(s) : FID2B.ch
 Acq On : 23 Oct 2024 17:02
 Operator : YP/AJ
 Sample : 10 PPM AROMATIC HC STD4
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 10 PPM AROMATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 23 17:44:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:44:12 2024
 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...	7.373	1535833	10.143 ug/ml
Spiked Amount 50.000		Recovery =	20.29%
6) S 2-Fluorobiphenyl (SURR)	8.224	998081	9.973 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	19.95%
11) S ortho-Terphenyl (SURR)	11.257	1758096	10.404 ug/ml
Spiked Amount 50.000		Recovery =	20.81%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.196	1780007	10.297 ug/ml
2) T Naphthalene (C11.7)	5.714	1822653	10.186 ug/ml
3) T 2-Methylnaphthalene (...)	6.760	1826622	10.197 ug/ml
5) T Acenaphthylene (C15.06)	8.025	1809718	10.335 ug/ml
7) T Acenaphthene (C15.5)	8.318	1838643	10.425 ug/ml
8) T Fluorene (C16.55)	9.098	1719817	10.154 ug/ml
9) T Phenanthrene (C19.36)	10.484	1680489	10.124 ug/ml
10) T Anthracene (C19.43)	10.560	1635709	10.260 ug/ml
12) T Fluoranthene (C21.85)	12.288	1671203	10.236 ug/ml
13) T Pyrene (C20.8)	12.581	1639022	10.183 ug/ml
14) T Benzo[a]anthracene (C...	14.450	1472368	9.868 ug/ml
15) T Chrysene (C27.41)	14.491	1725560	10.700 ug/ml
16) T benzo[b]fluoranthene ...	15.995	1544713	10.045 ug/ml
17) T Bnezo[k]fluoranthene ...	16.026	1579300	10.611 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.374	1518079	10.066 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.737	1259393	9.340 ug/ml
20) T Dibenz[a,h]anthracene...	17.779	1780079	11.209 ug/ml
21) T Benzo[g,h,i]perylene ...	17.986	1603528	10.461 ug/ml

(f)=RT Delta > 1/2 Window

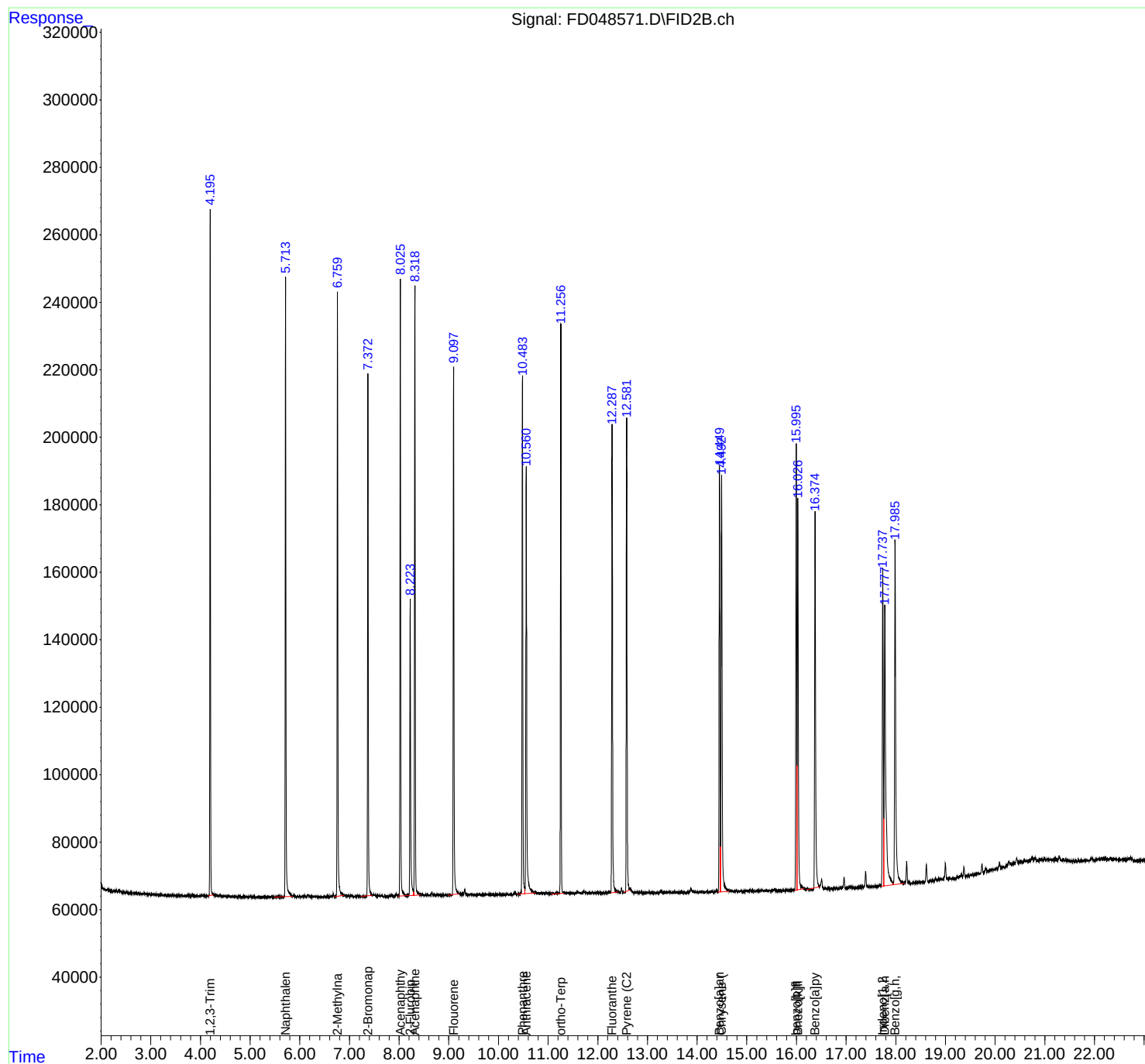
(m)=manual int.

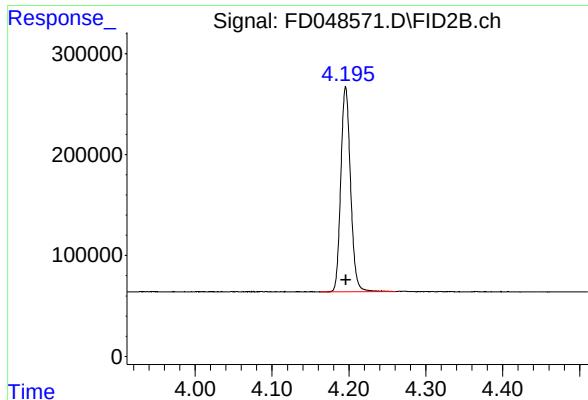
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:44:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

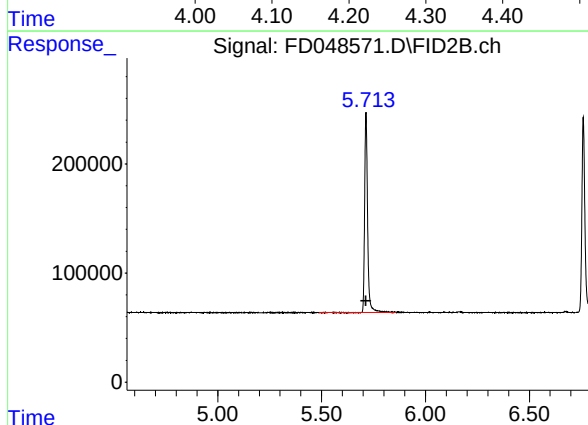




#1 1,2,3-Trimethylbenzene (C10.1)

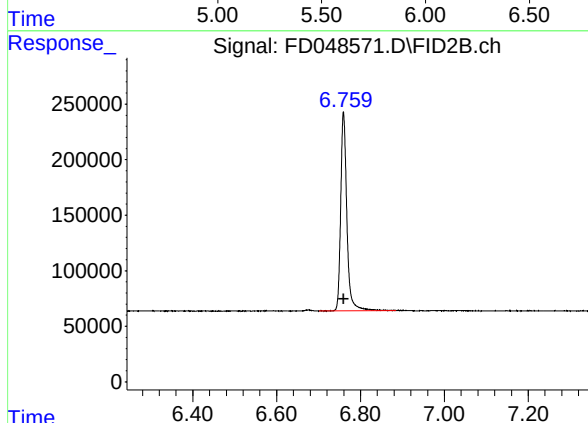
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 1780007
Conc: 10.30 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



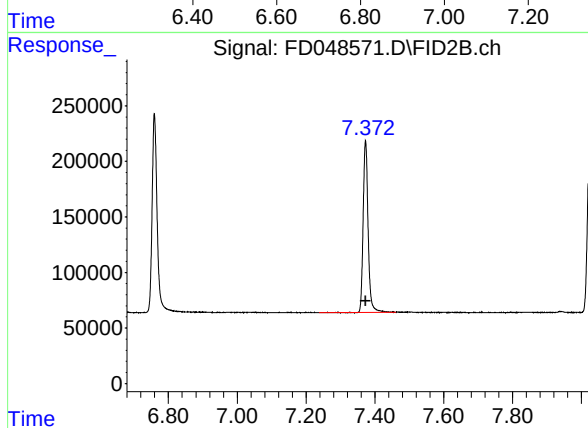
#2 Naphthalene (C11.7)

R.T.: 5.714 min
Delta R.T.: 0.000 min
Response: 1822653
Conc: 10.19 ug/ml



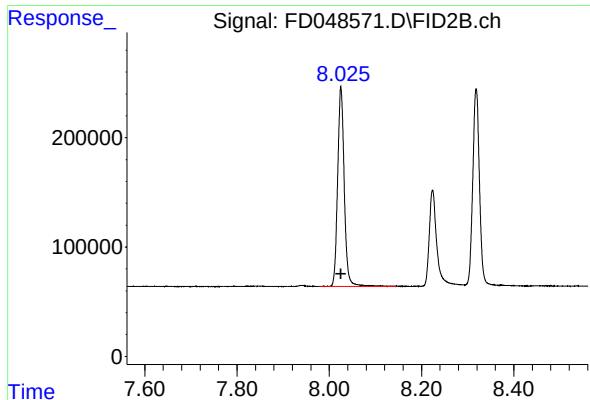
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: 0.000 min
Response: 1826622
Conc: 10.20 ug/ml



#4 2-Bromonaphthalene (SURR)

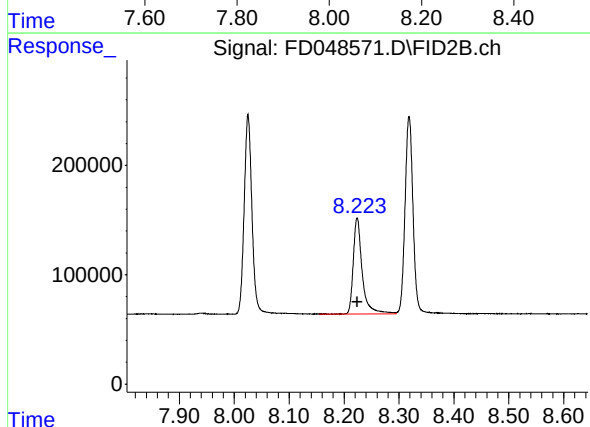
R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 1535833
Conc: 10.14 ug/ml



#5 Acenaphthylene (C15.06)

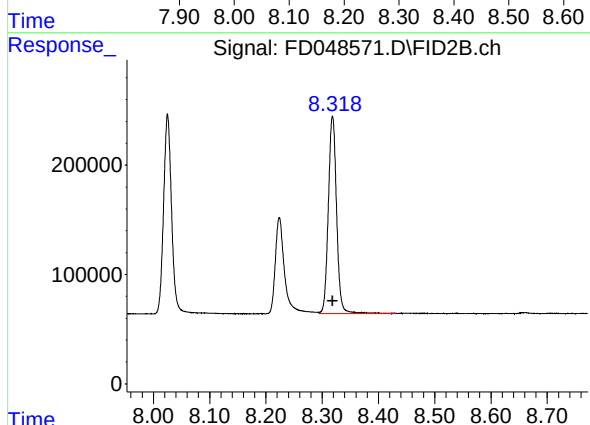
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 1809718
Conc: 10.34 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



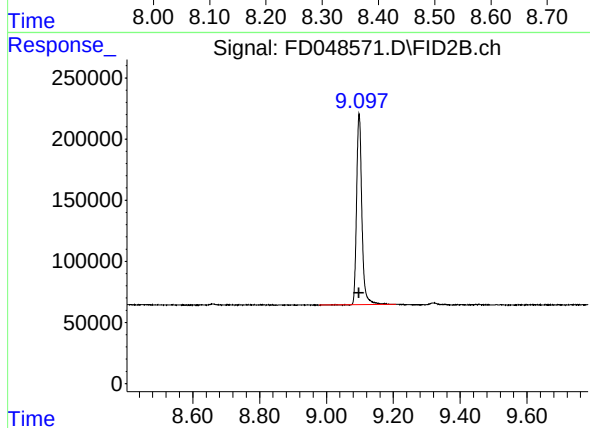
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: 0.000 min
Response: 998081
Conc: 9.97 ug/ml



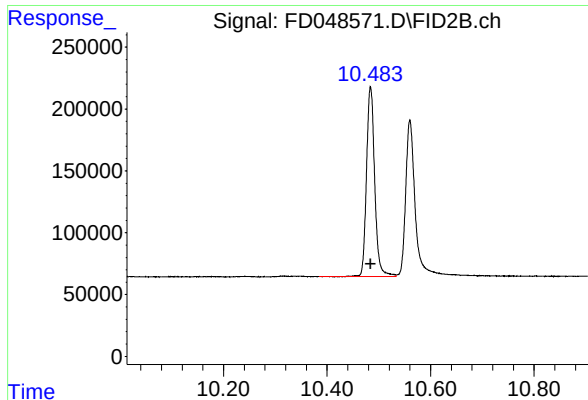
#7 Acenaphthene (C15.5)

R.T.: 8.318 min
Delta R.T.: 0.000 min
Response: 1838643
Conc: 10.43 ug/ml



#8 Flouorene (C16.55)

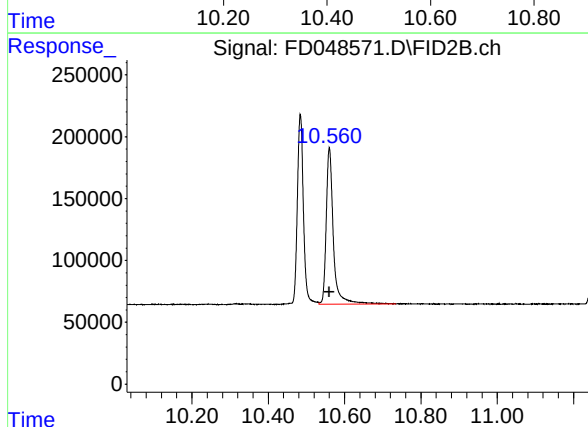
R.T.: 9.098 min
Delta R.T.: 0.000 min
Response: 1719817
Conc: 10.15 ug/ml



#9 Phenanthrene (C19.36)

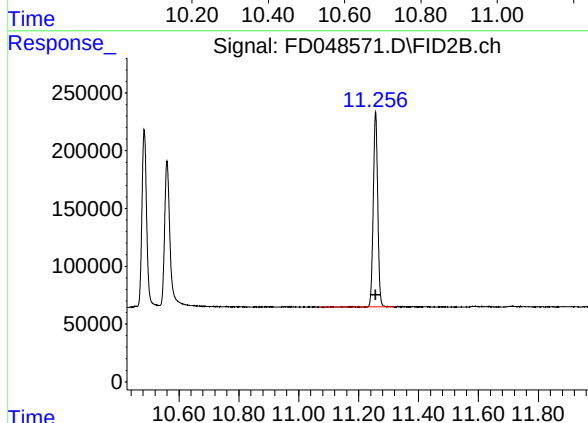
R.T.: 10.484 min
Delta R.T.: 0.000 min
Response: 1680489
Conc: 10.12 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



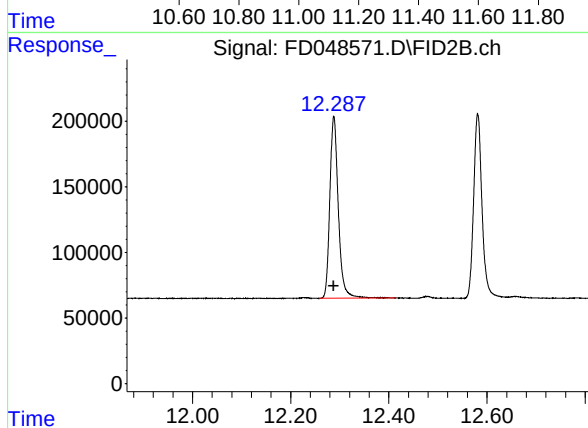
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: 0.000 min
Response: 1635709
Conc: 10.26 ug/ml



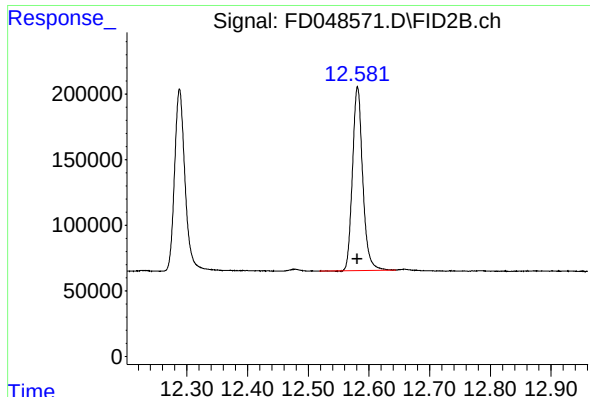
#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 1758096
Conc: 10.40 ug/ml



#12 Fluoranthene (C21.85)

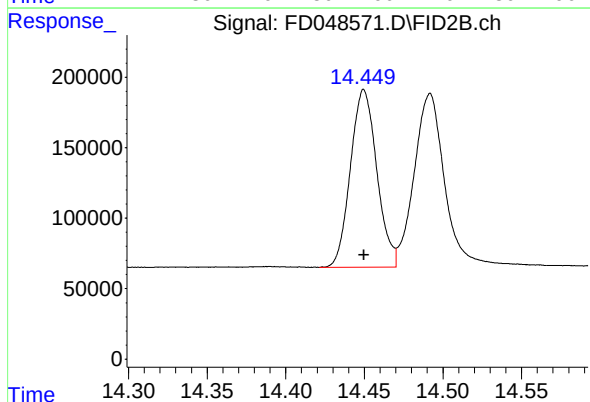
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 1671203
Conc: 10.24 ug/ml



#13 Pyrene (C20.8)

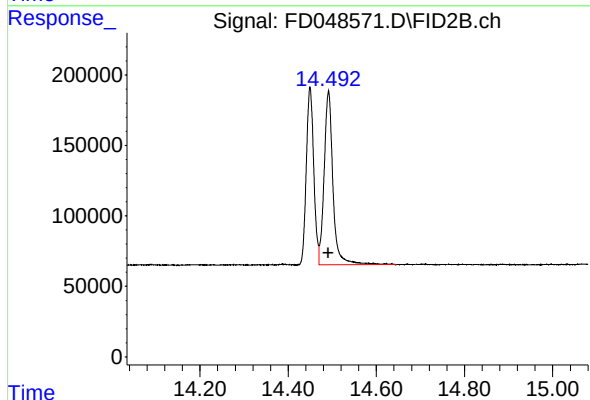
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 1639022
Conc: 10.18 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



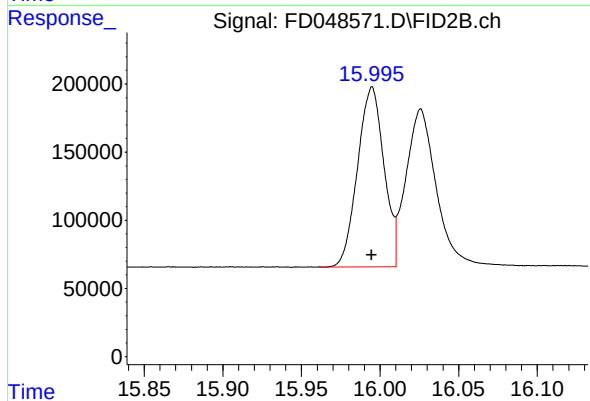
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: 0.000 min
Response: 1472368
Conc: 9.87 ug/ml



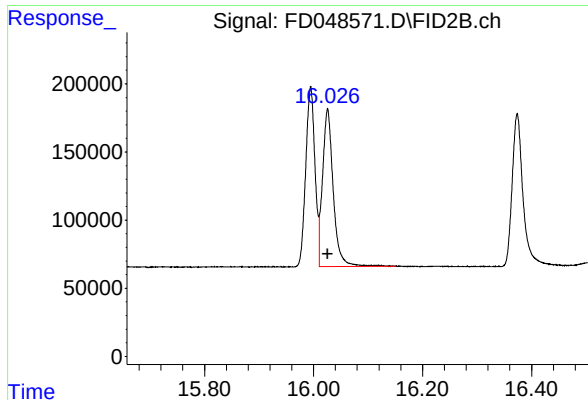
#15 Chrysene (C27.41)

R.T.: 14.491 min
Delta R.T.: 0.000 min
Response: 1725560
Conc: 10.70 ug/ml



#16 benzo[b]fluoranthene (C30.41)

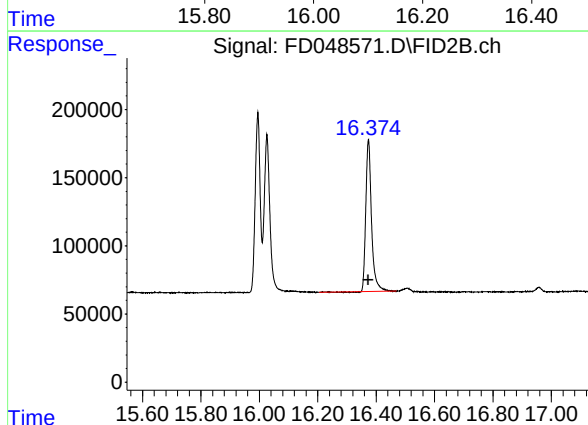
R.T.: 15.995 min
Delta R.T.: 0.000 min
Response: 1544713
Conc: 10.04 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

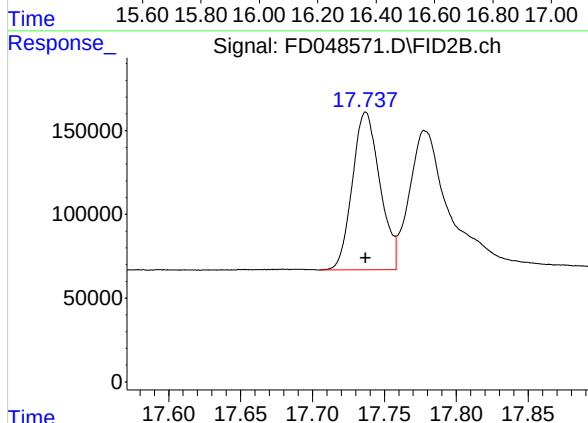
R.T.: 16.026 min
Delta R.T.: 0.000 min
Response: 1579300
Conc: 10.61 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



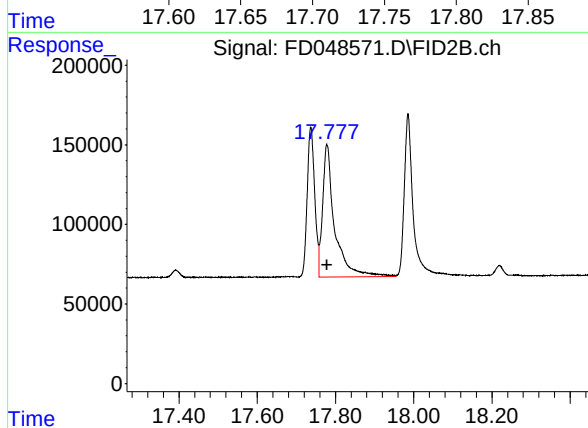
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.374 min
Delta R.T.: 0.000 min
Response: 1518079
Conc: 10.07 ug/ml



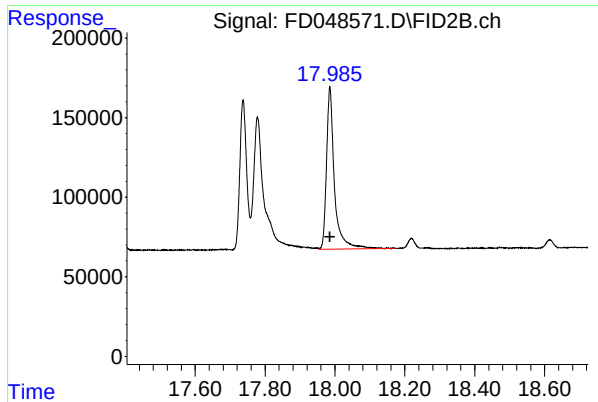
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 1259393
Conc: 9.34 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.779 min
Delta R.T.: 0.000 min
Response: 1780079
Conc: 11.21 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.986 min
Delta R.T.: 0.000 min
Response: 1603528
Conc: 10.46 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.196	4.161	4.261	BV	201703	1780007	96.81%	5.205%
2	5.714	5.488	5.858	BB	181375	1822653	99.13%	5.330%
3	6.760	6.701	6.885	BB	175216	1826622	99.35%	5.341%
4	7.373	7.238	7.461	BB	154245	1535833	83.53%	4.491%
5	8.025	7.978	8.145	BB	181606	1809718	98.43%	5.292%
6	8.224	8.155	8.295	BV	87703	998081	54.28%	2.918%
7	8.318	8.295	8.431	VV	180640	1838643	100.00%	5.376%
8	9.098	8.978	9.208	BB	155949	1719817	93.54%	5.029%
9	10.484	10.385	10.533	BV	153275	1680489	91.40%	4.914%
10	10.560	10.533	10.735	VB	125868	1635709	88.96%	4.783%
11	11.257	11.068	11.325	BB	168238	1758096	95.62%	5.141%
12	12.288	12.258	12.415	BB	138726	1671203	90.89%	4.887%
13	12.581	12.518	12.645	BV	140018	1639022	89.14%	4.793%
14	14.450	14.421	14.470	PV	124977	1472368	80.08%	4.305%
15	14.491	14.470	14.645	VB	122848	1725560	93.85%	5.046%
16	15.995	15.961	16.010	BV	131640	1544713	84.01%	4.517%
17	16.026	16.010	16.151	VB	114804	1579300	85.89%	4.618%
18	16.374	16.205	16.468	BV	111460	1518079	82.57%	4.439%
19	17.737	17.705	17.758	BV	94271	1259393	68.50%	3.683%
20	17.779	17.758	17.955	VV	83223	1780079	96.81%	5.205%
21	17.986	17.955	18.175	VB	101691	1603528	87.21%	4.689%
Sum of corrected areas:						34198912		

Aromatic EPH 102324.M Wed Oct 23 18:19:08 2024

Lab Sample ID:	5 PPM AROMATIC HC S	Acq On:	23 Oct 2024 17:38
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048572.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	1773971.000	10.000	ug/ml
Aromatic C12-C16	5.814	8.419	2683618.000	15.000	ug/ml
Aromatic C16-C21	8.420	12.681	3268126.000	20.000	ug/ml
Aromatic C21-C36	12.682	18.087	6877987.000	45.000	ug/ml
Aromatic EPH	4.095	18.087	14603702.000	90.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
 Data File : FD048572.D
 Signal(s) : FID2B.ch
 Acq On : 23 Oct 2024 17:38
 Operator : YP/AJ
 Sample : 5 PPM AROMATIC HC STD5
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 5 PPM AROMATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 23 18:14:13 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:14:05 2024
 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...	7.375	765966	5.047 ug/ml
Spiked Amount 50.000		Recovery =	10.09%
6) S 2-Fluorobiphenyl (SURR)	8.228	453280	4.616 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	9.23%
11) S ortho-Terphenyl (SURR)	11.257	878976	5.160 ug/ml
Spiked Amount 50.000		Recovery =	10.32%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.197	891941	5.127 ug/ml
2) T Naphthalene (C11.7)	5.716	882030	4.943 ug/ml
3) T 2-Methylnaphthalene (...)	6.762	888953	4.970 ug/ml
5) T Acenaphthylene (C15.06)	8.026	887785	5.056 ug/ml
7) T Acenaphthene (C15.5)	8.319	906880	5.113 ug/ml
8) T Fluorene (C16.55)	9.101	838419	4.960 ug/ml
9) T Phenanthrene (C19.36)	10.487	812730	4.917 ug/ml
10) T Anthracene (C19.43)	10.565	809302	5.061 ug/ml
12) T Fluoranthene (C21.85)	12.291	849157	5.160 ug/ml
13) T Pyrene (C20.8)	12.583	807675	5.014 ug/ml
14) T Benzo[a]anthracene (C...	14.453	671281	4.591 ug/ml
15) T Chrysene (C27.41)	14.493	886842	5.391 ug/ml
16) T benzo[b]fluoranthene ...	15.998	725025	4.769 ug/ml
17) T Bnezo[k]fluoranthene ...	16.030	780831	5.195 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.381	746043	4.957 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.744	565150	4.331 ug/ml
20) T Dibenz[a,h]anthracene...	17.787	892102	5.482 ug/ml
21) T Benzo[g,h,i]perylene ...	17.990	761556	4.974 ug/ml

(f)=RT Delta > 1/2 Window

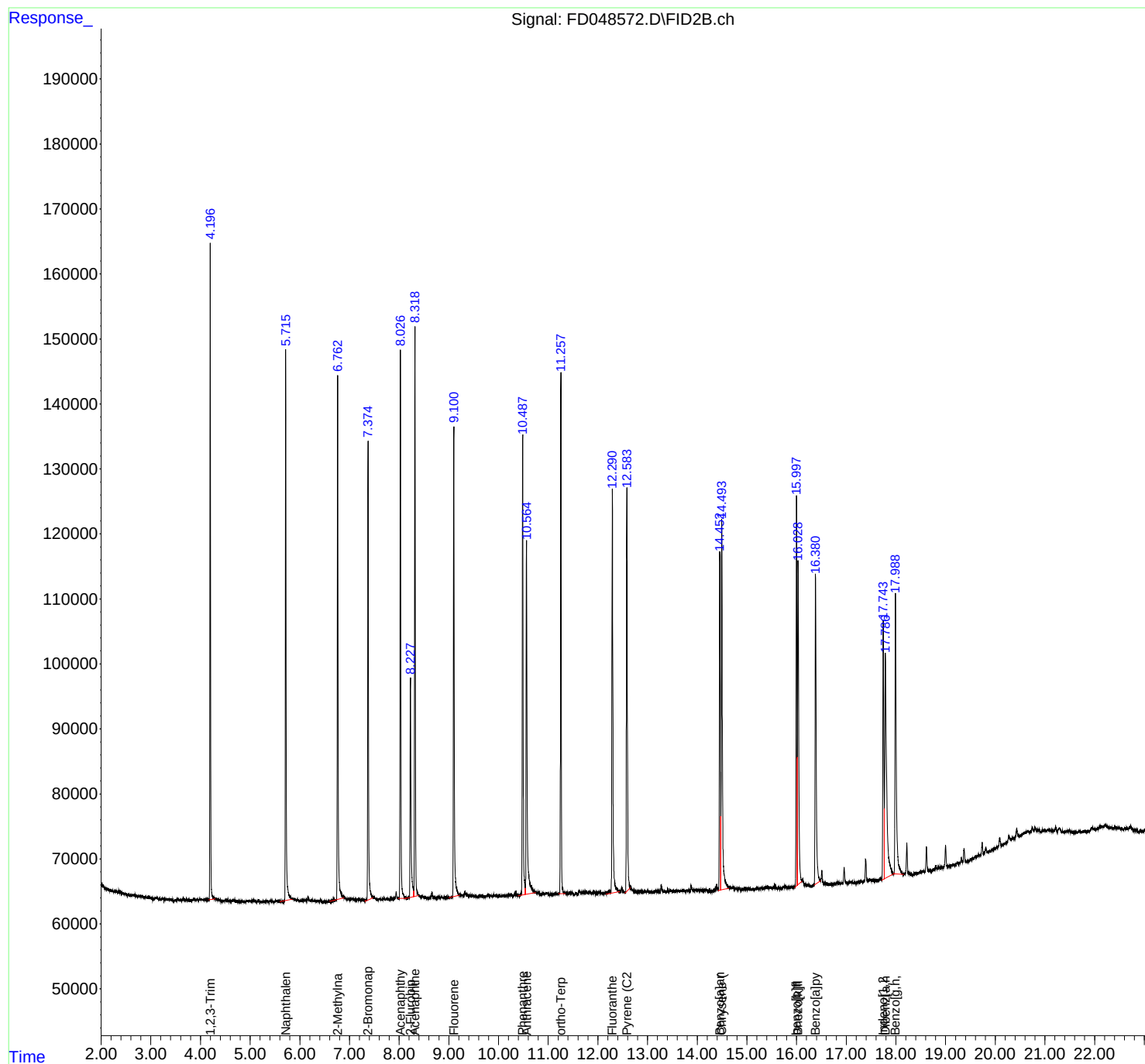
(m)=manual int.

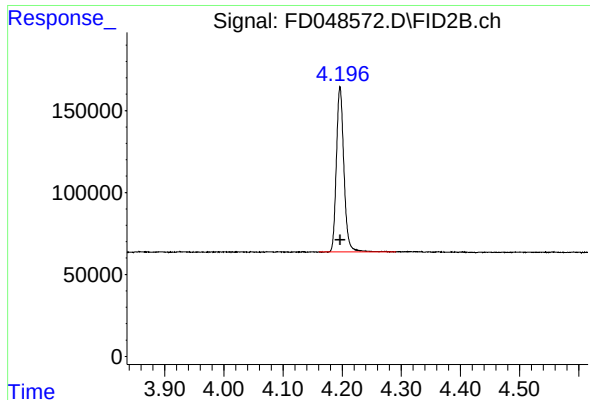
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:14:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

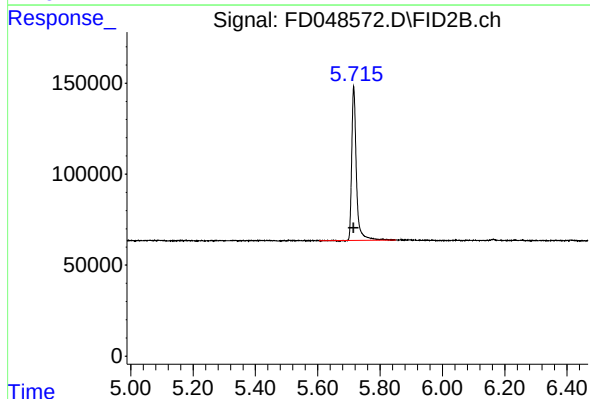




#1 1,2,3-Trimethylbenzene (C10.1)

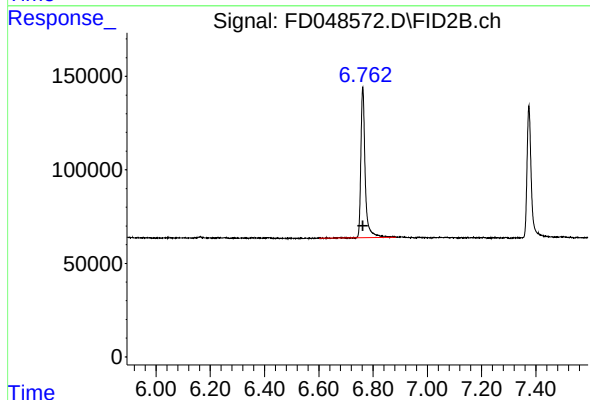
R.T.: 4.197 min
Delta R.T.: 0.000 min
Response: 891941
Conc: 5.13 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



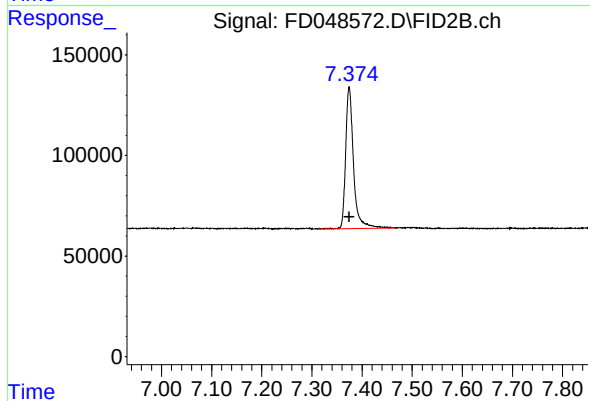
#2 Naphthalene (C11.7)

R.T.: 5.716 min
Delta R.T.: 0.000 min
Response: 882030
Conc: 4.94 ug/ml



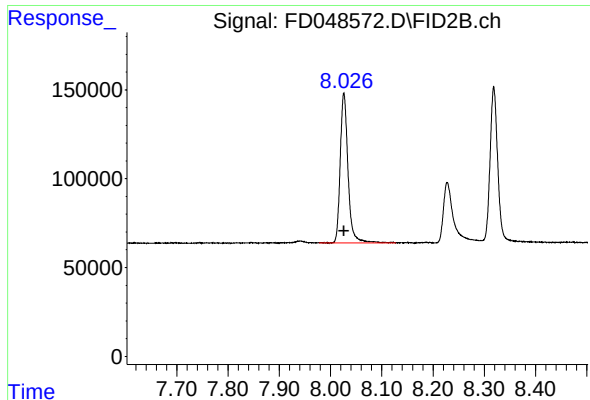
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.762 min
Delta R.T.: 0.000 min
Response: 888953
Conc: 4.97 ug/ml



#4 2-Bromonaphthalene (SURR)

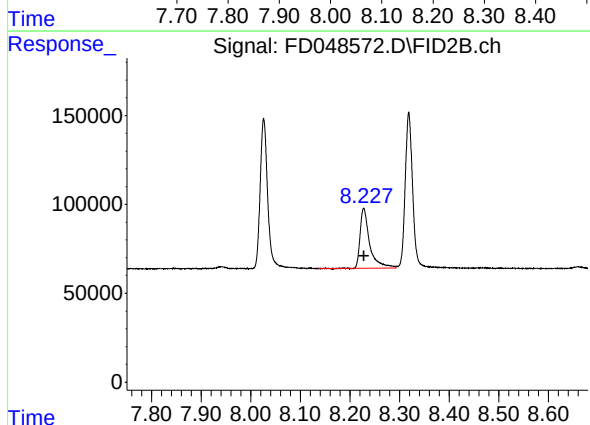
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 765966
Conc: 5.05 ug/ml



#5 Acenaphthylene (C15.06)

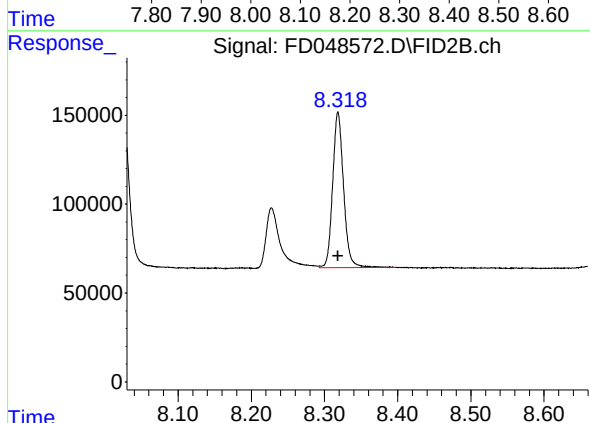
R.T.: 8.026 min
Delta R.T.: 0.000 min
Response: 887785
Conc: 5.06 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



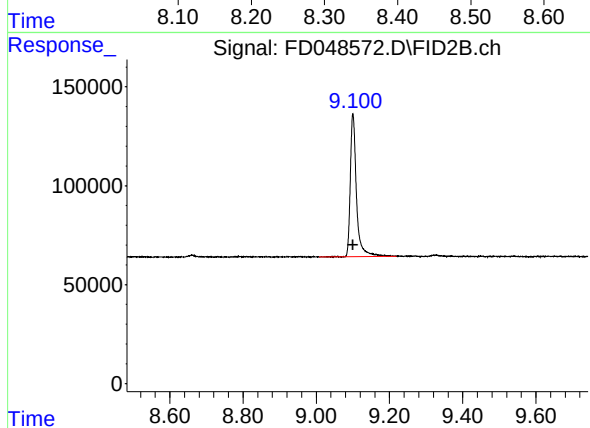
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.228 min
Delta R.T.: 0.000 min
Response: 453280
Conc: 4.62 ug/ml



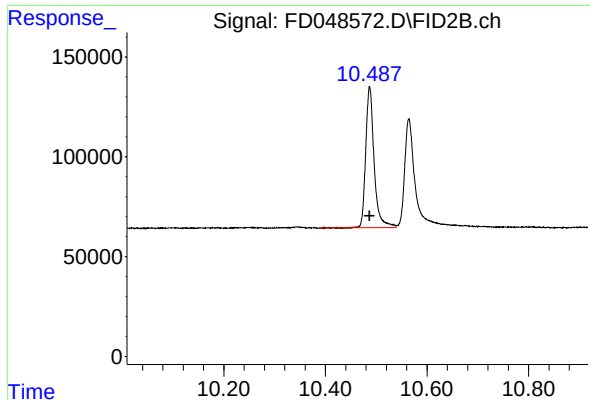
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 906880
Conc: 5.11 ug/ml



#8 Fluorene (C16.55)

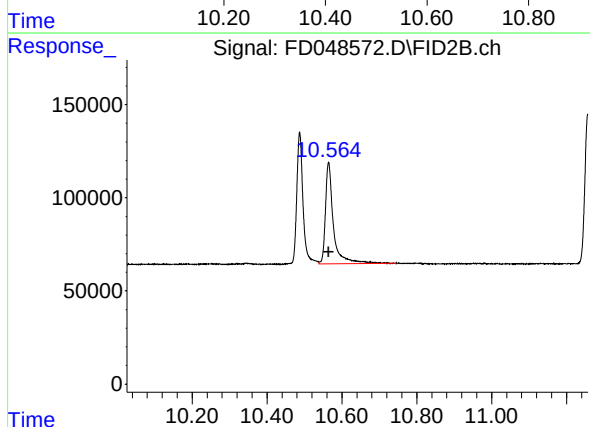
R.T.: 9.101 min
Delta R.T.: 0.000 min
Response: 838419
Conc: 4.96 ug/ml



#9 Phenanthrene (C19.36)

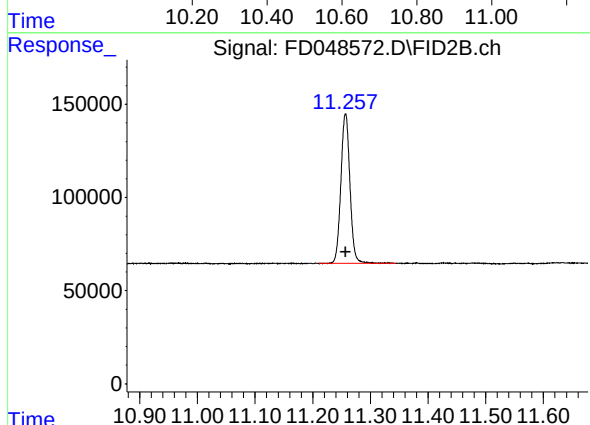
R.T.: 10.487 min
Delta R.T.: 0.000 min
Response: 812730
Conc: 4.92 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



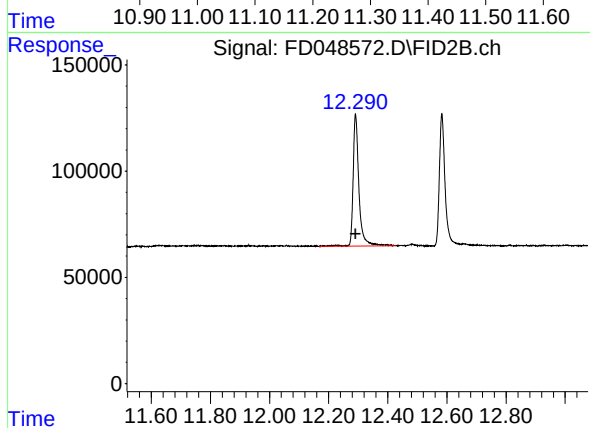
#10 Anthracene (C19.43)

R.T.: 10.565 min
Delta R.T.: 0.000 min
Response: 809302
Conc: 5.06 ug/ml



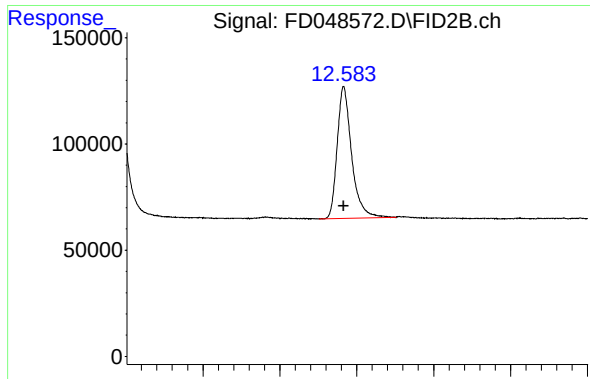
#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 878976
Conc: 5.16 ug/ml



#12 Fluoranthene (C21.85)

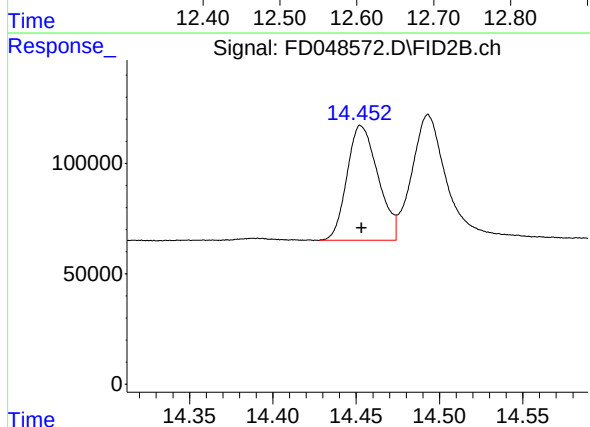
R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 849157
Conc: 5.16 ug/ml



#13 Pyrene (C20.8)

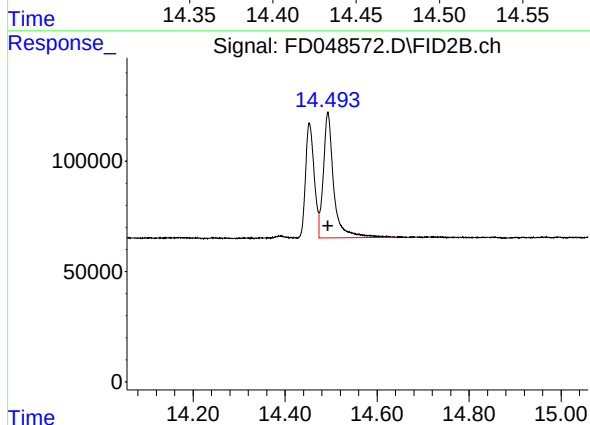
R.T.: 12.583 min
Delta R.T.: 0.000 min
Response: 807675
Conc: 5.01 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



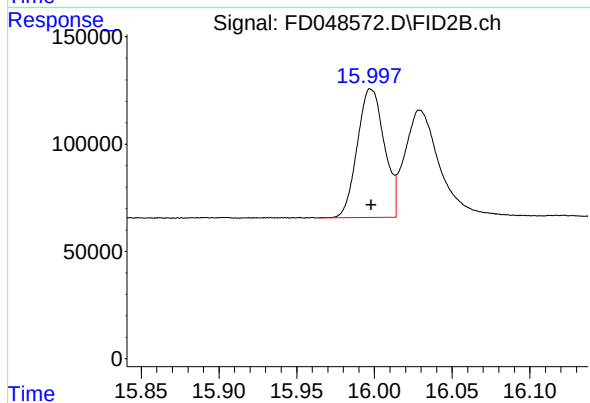
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.453 min
Delta R.T.: 0.000 min
Response: 671281
Conc: 4.59 ug/ml



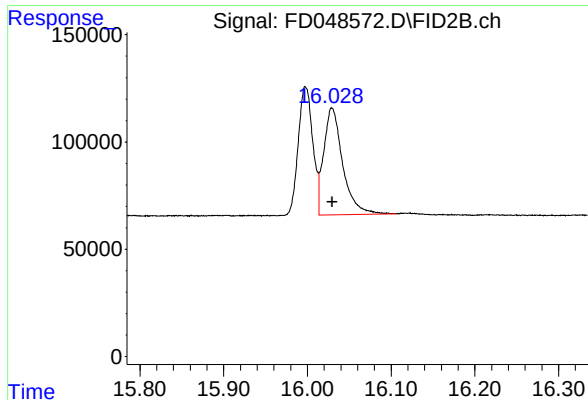
#15 Chrysene (C27.41)

R.T.: 14.493 min
Delta R.T.: 0.000 min
Response: 886842
Conc: 5.39 ug/ml



#16 benzo[b]fluoranthene (C30.41)

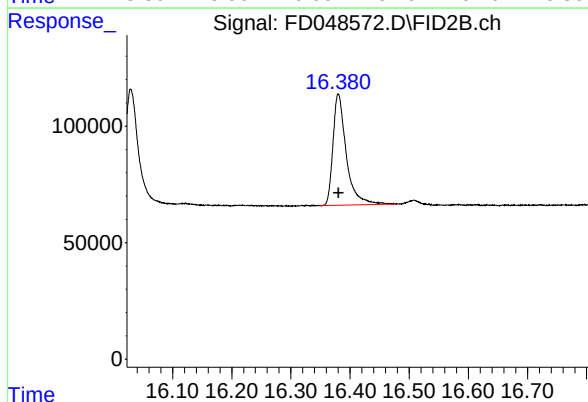
R.T.: 15.998 min
Delta R.T.: 0.000 min
Response: 725025
Conc: 4.77 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

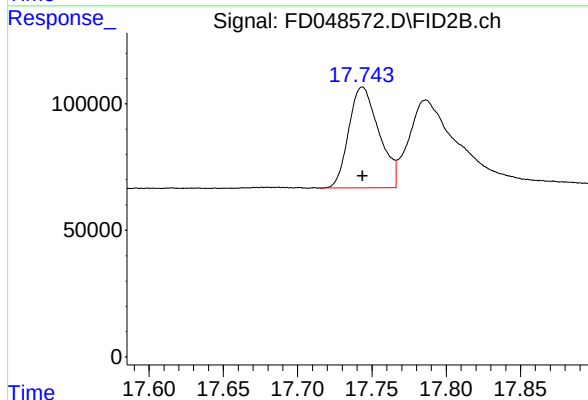
R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 780831
Conc: 5.20 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



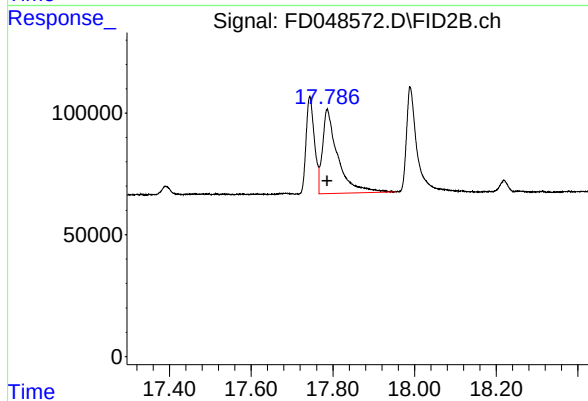
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 746043
Conc: 4.96 ug/ml



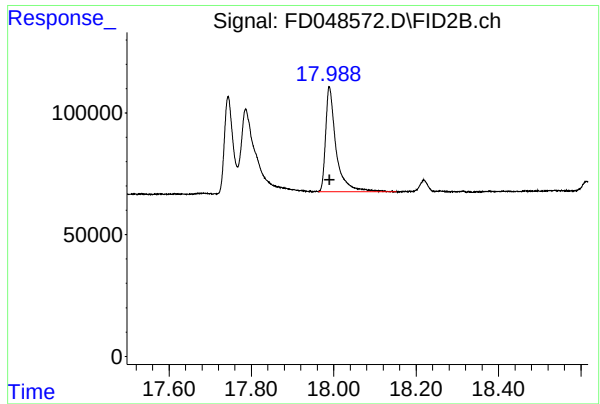
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.744 min
Delta R.T.: 0.000 min
Response: 565150
Conc: 4.33 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.787 min
Delta R.T.: 0.000 min
Response: 892102
Conc: 5.48 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.990 min
Delta R.T.: 0.000 min
Response: 761556
Conc: 4.97 ug/ml

Instrument :

FID_D

ClientSampleId :

5 PPM AROMATIC HC STD5

A

B

C

D

E

F

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.197	4.161	4.291	BB	99856	891941	98.35%	5.340%
2	5.716	5.604	5.851	BB	84500	882030	97.26%	5.281%
3	6.762	6.601	6.884	BB	80288	888953	98.02%	5.322%
4	7.375	7.314	7.468	BB	70282	765966	84.46%	4.586%
5	8.026	7.978	8.128	BB	83372	887785	97.89%	5.315%
6	8.228	8.138	8.293	BV	33723	453280	49.98%	2.714%
7	8.319	8.293	8.398	VB	87190	906880	100.00%	5.430%
8	9.101	9.008	9.218	BB	71759	838419	92.45%	5.020%
9	10.487	10.388	10.539	BV	70612	812730	89.62%	4.866%
10	10.565	10.539	10.744	VB	54403	809302	89.24%	4.846%
11	11.257	11.211	11.344	BB	80592	878976	96.92%	5.263%
12	12.291	12.168	12.428	BB	61860	849157	93.64%	5.084%
13	12.583	12.551	12.651	BV	61467	807675	89.06%	4.836%
14	14.453	14.428	14.474	PV	51289	671281	74.02%	4.019%
15	14.493	14.474	14.641	VB	56549	886842	97.79%	5.310%
16	15.998	15.964	16.014	BV	60013	725025	79.95%	4.341%
17	16.030	16.014	16.106	VV	49388	780831	86.10%	4.675%
18	16.381	16.348	16.478	BV	47621	746043	82.26%	4.467%
19	17.744	17.714	17.766	BV	39855	565150	62.32%	3.384%
20	17.787	17.766	17.954	VB	34397	892102	98.37%	5.341%
21	17.990	17.964	18.151	BB	42474	761556	83.98%	4.560%
Sum of corrected areas:							16701921	

Aromatic EPH 102324.M Wed Oct 23 18:19:26 2024

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	23 Oct 2024 18:14
Client Sample ID:	20 PPM AROMATIC HC S	Operator:	YP/AJ
Data file:	FD048573.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.095	5.813	7133973	40.487	200	ug/ml
Aromatic C12-C16	5.814	8.419	10745232	60.614	300	ug/ml
Aromatic C16-C21	8.420	12.681	16489725	100.65	500	ug/ml
Aromatic C21-C36	12.682	18.087	24373102	159.601	800	ug/ml
Aromatic EPH	4.095	18.087	58742032	361.352		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	3035391	20		ug/ml
2-Fluorobiphenyl (SURR)	8.222	8.222	2009011	20.46		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	3418196	20.07		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
 Data File : FD048573.D
 Signal(s) : FID2B.ch
 Acq On : 23 Oct 2024 18:14
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD ICV
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 23 18:50:32 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:14:59 2024
 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...	7.372	3035391	19.999 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
6) S 2-Fluorobiphenyl (SURR)	8.222	2009011	20.460 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.92%
11) S ortho-Terphenyl (SURR)	11.258	3418196	20.067 ug/ml
Spiked Amount 50.000		Recovery =	40.13%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.195	3511974	20.187 ug/ml
2) T Naphthalene (C11.7)	5.713	3621999	20.299 ug/ml
3) T 2-Methylnaphthalene (...)	6.760	3629138	20.290 ug/ml
5) T Acenaphthylene (C15.06)	8.025	3549708	20.216 ug/ml
7) T Acenaphthene (C15.5)	8.319	3566386	20.108 ug/ml
8) T Fluorene (C16.55)	9.098	3449130	20.405 ug/ml
9) T Phenanthrene (C19.36)	10.485	3337748	20.191 ug/ml
10) T Anthracene (C19.43)	10.560	3166872	19.804 ug/ml
12) T Fluoranthene (C21.85)	12.288	3304952	20.082 ug/ml
13) T Pyrene (C20.8)	12.581	3231023	20.059 ug/ml
14) T Benzo[a]anthracene (C...	14.450	2986450	20.425 ug/ml
15) T Chrysene (C27.41)	14.492	3268283	19.869 ug/ml
16) T benzo[b]fluoranthene ...	15.997	3076351	20.235 ug/ml
17) T Bnezo[k]fluoranthene ...	16.029	3007230	20.008 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.372	3055729	20.304 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.737	2639364	20.228 ug/ml
20) T Dibenz[a,h]anthracene...	17.776	3309486	20.337 ug/ml
21) T Benzo[g,h,i]perylene ...	17.987	3030209	19.793 ug/ml

(f)=RT Delta > 1/2 Window

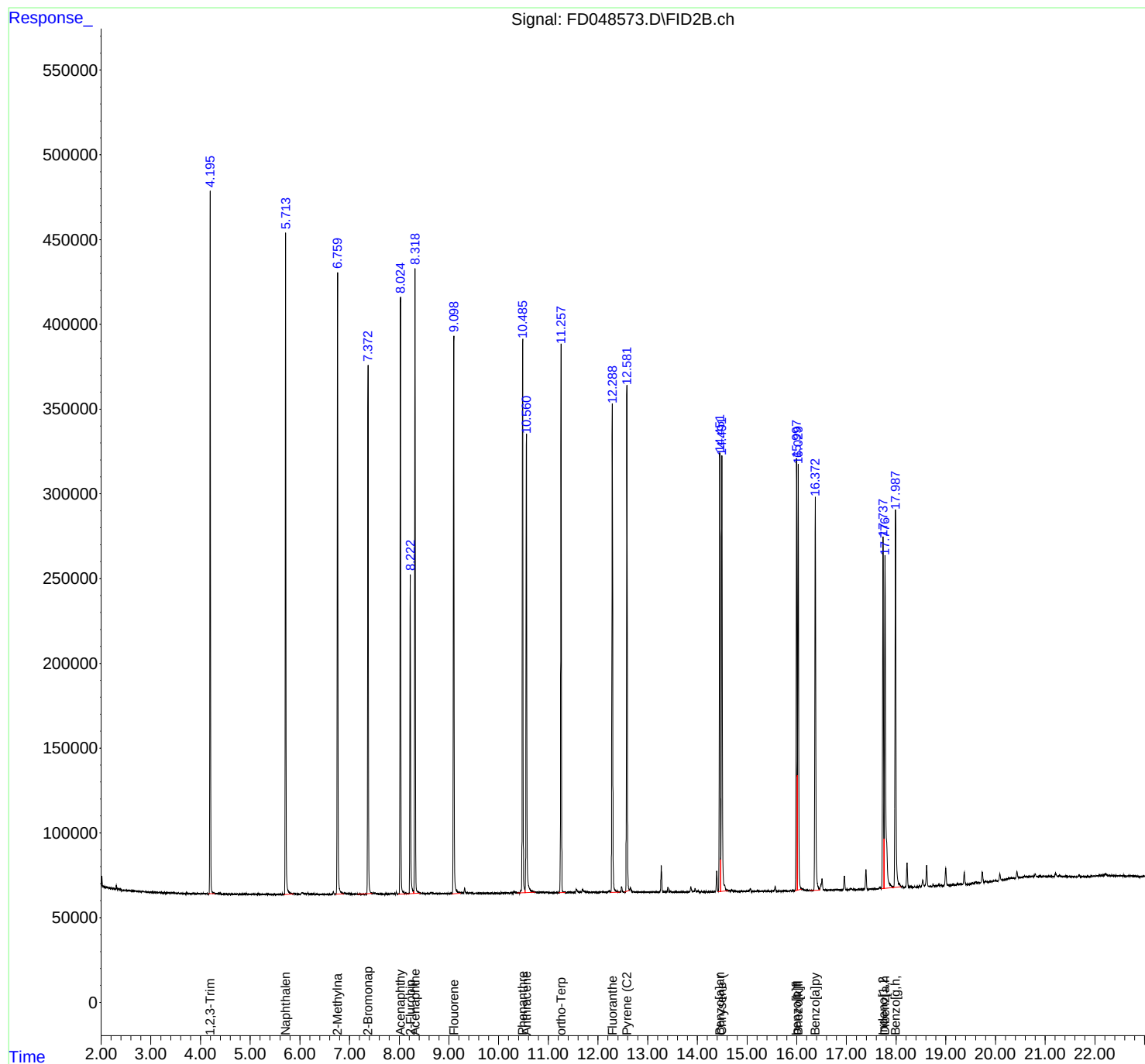
(m)=manual int.

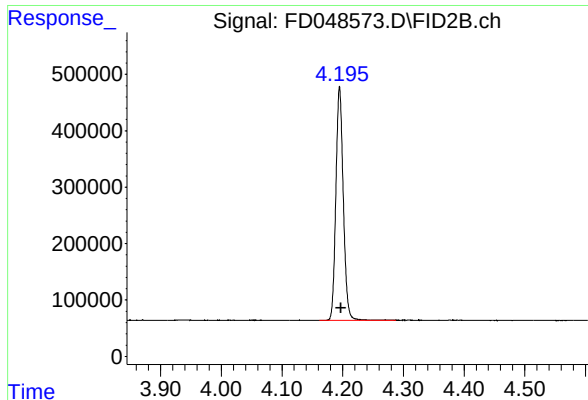
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:50:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

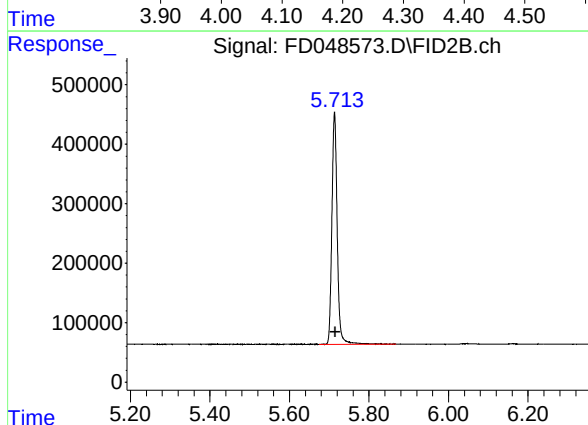




#1 1,2,3-Trimethylbenzene (C10.1)

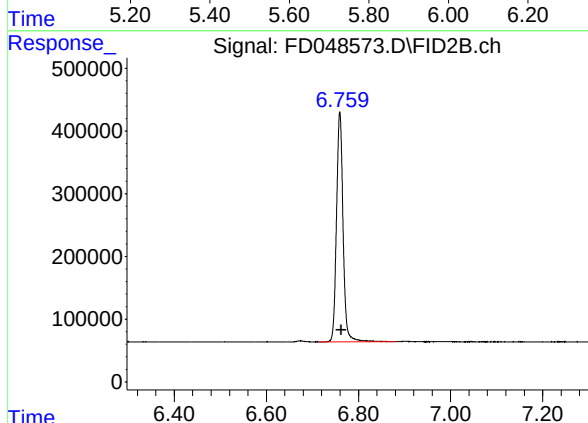
R.T.: 4.195 min
Delta R.T.: -0.002 min
Response: 3511974
Conc: 20.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



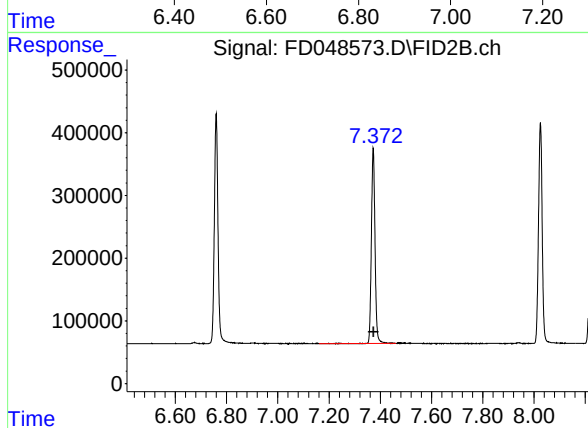
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: -0.002 min
Response: 3621999
Conc: 20.30 ug/ml



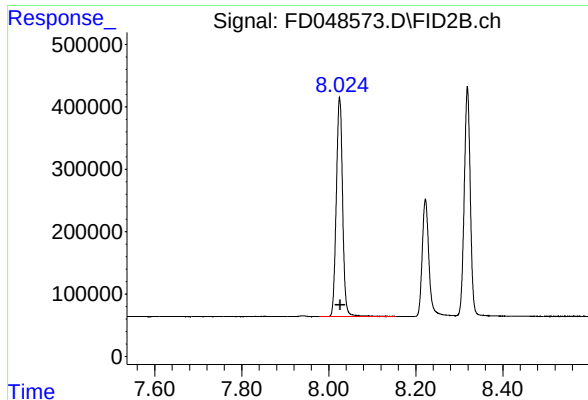
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: -0.003 min
Response: 3629138
Conc: 20.29 ug/ml



#4 2-Bromonaphthalene (SURR)

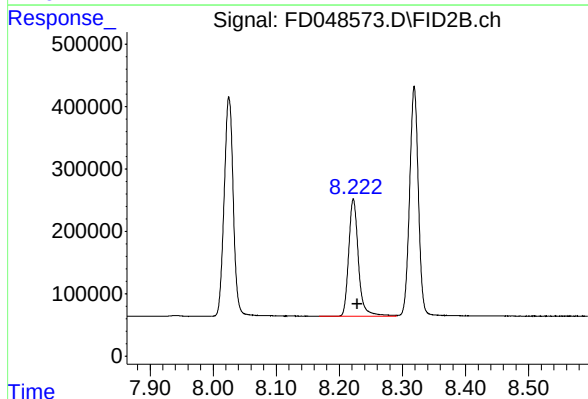
R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 3035391
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

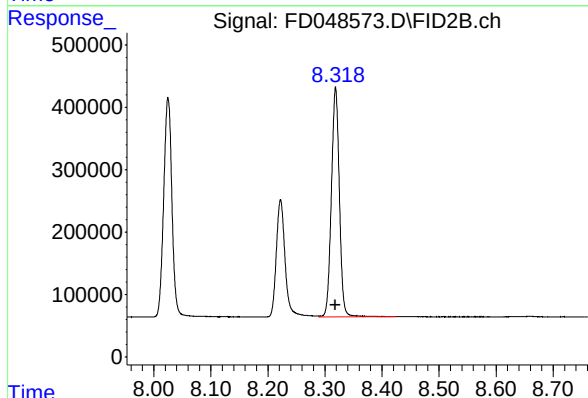
R.T.: 8.025 min
Delta R.T.: -0.001 min
Response: 3549708
Conc: 20.22 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



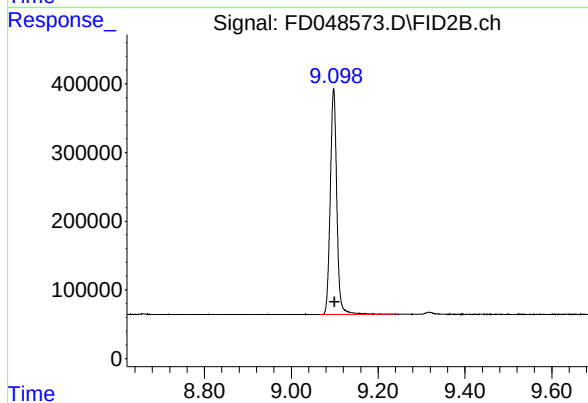
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: -0.006 min
Response: 2009011
Conc: 20.46 ug/ml



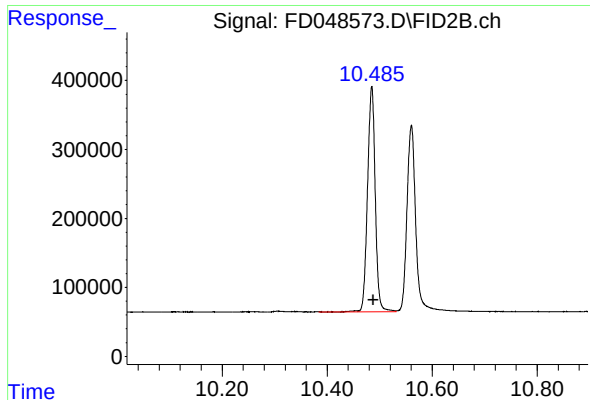
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 3566386
Conc: 20.11 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.098 min
Delta R.T.: -0.003 min
Response: 3449130
Conc: 20.40 ug/ml



#9 Phenanthrene (C19.36)

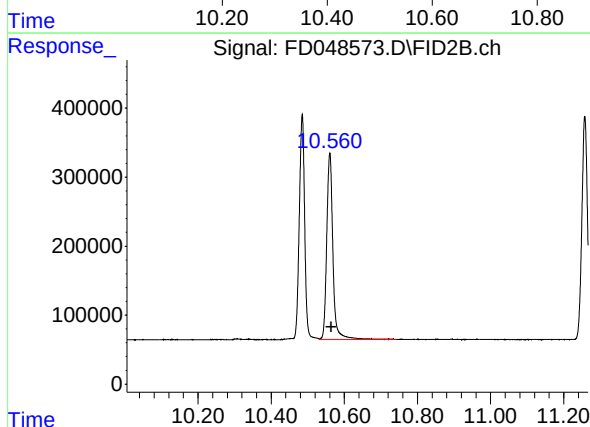
R.T.: 10.485 min
Delta R.T.: -0.003 min
Response: 3337748
Conc: 20.19 ug/ml

Instrument :

FID_D

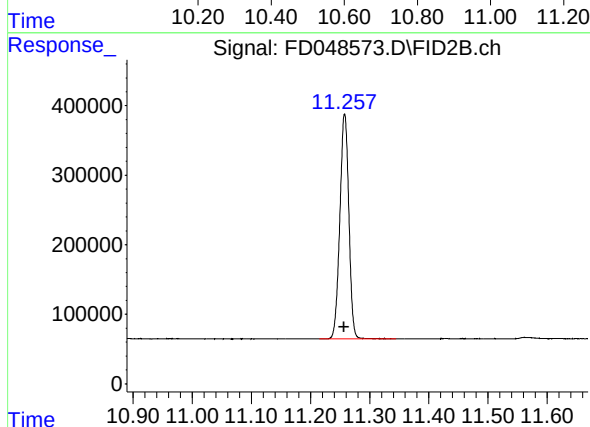
ClientSampleId :

20 PPM AROMATIC HC STD ICV



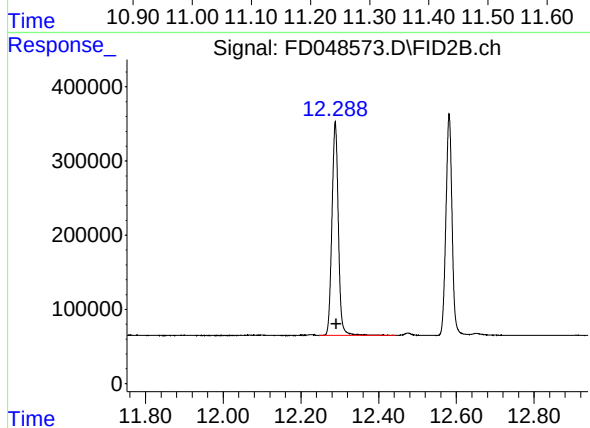
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: -0.004 min
Response: 3166872
Conc: 19.80 ug/ml



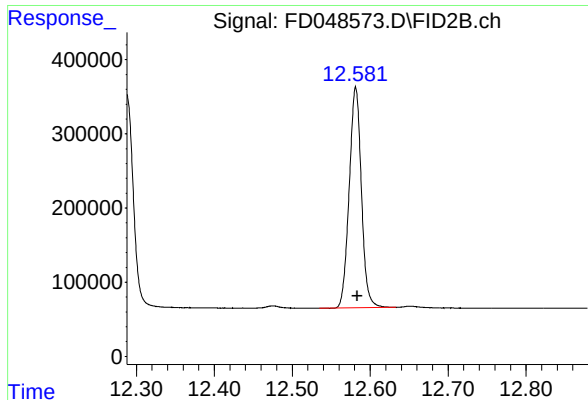
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 3418196
Conc: 20.07 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.288 min
Delta R.T.: -0.003 min
Response: 3304952
Conc: 20.08 ug/ml



#13 Pyrene (C20.8)

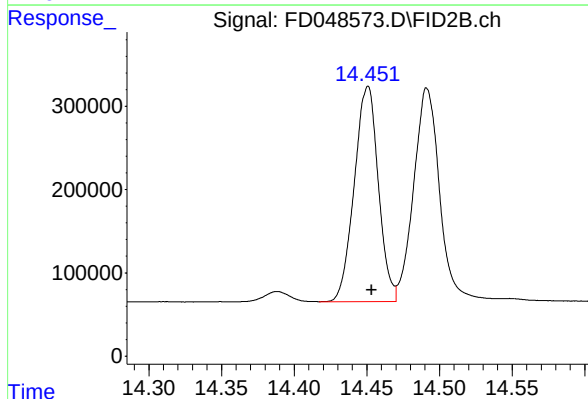
R.T.: 12.581 min
Delta R.T.: -0.002 min
Response: 3231023
Conc: 20.06 ug/ml

Instrument :

FID_D

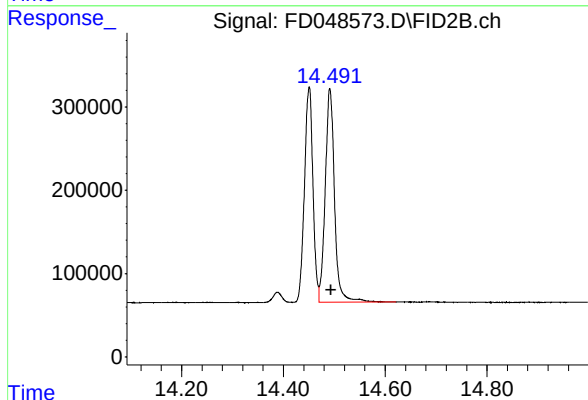
ClientSampleId :

20 PPM AROMATIC HC STD ICV



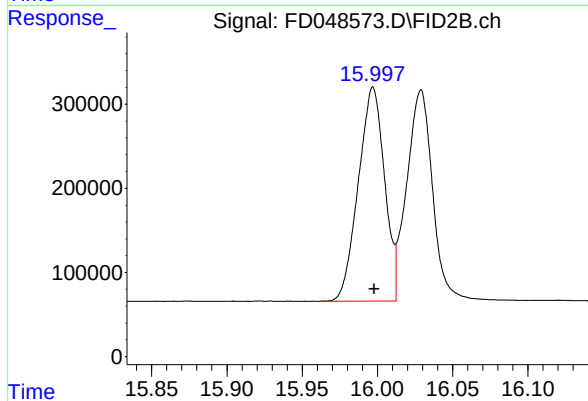
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: -0.003 min
Response: 2986450
Conc: 20.42 ug/ml



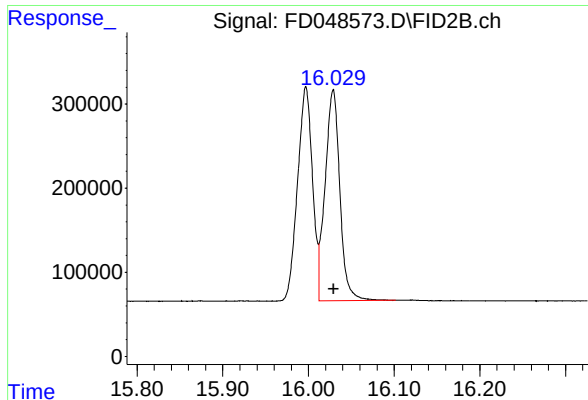
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: -0.002 min
Response: 3268283
Conc: 19.87 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3076351
Conc: 20.24 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

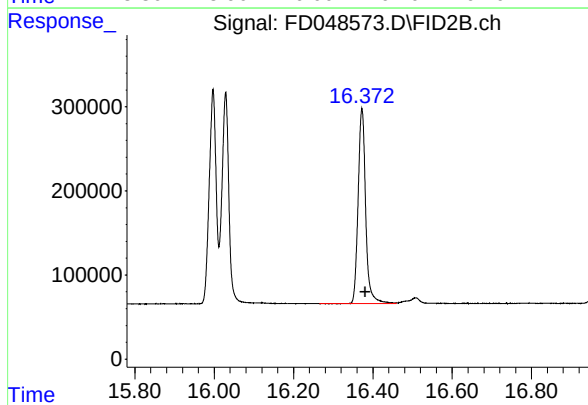
R.T.: 16.029 min
Delta R.T.: 0.000 min
Response: 3007230
Conc: 20.01 ug/ml

Instrument :

FID_D

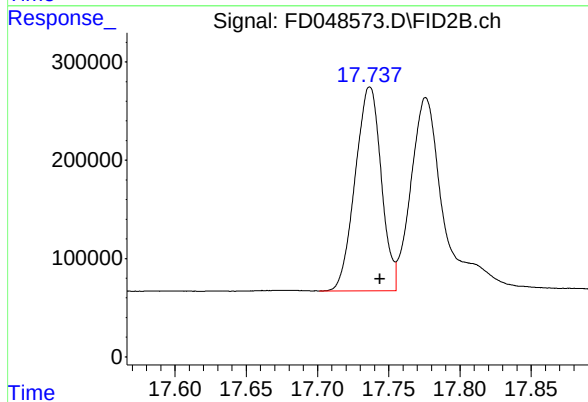
ClientSampleId :

20 PPM AROMATIC HC STD ICV



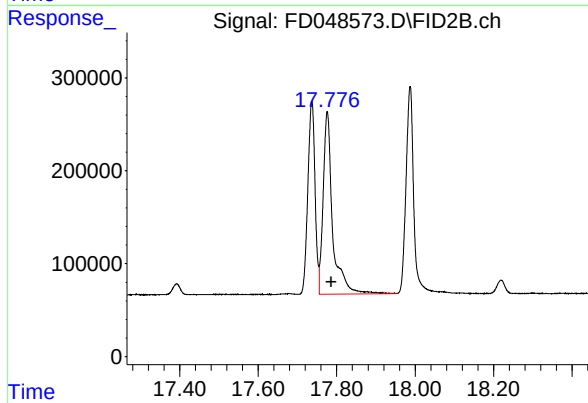
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.372 min
Delta R.T.: -0.008 min
Response: 3055729
Conc: 20.30 ug/ml



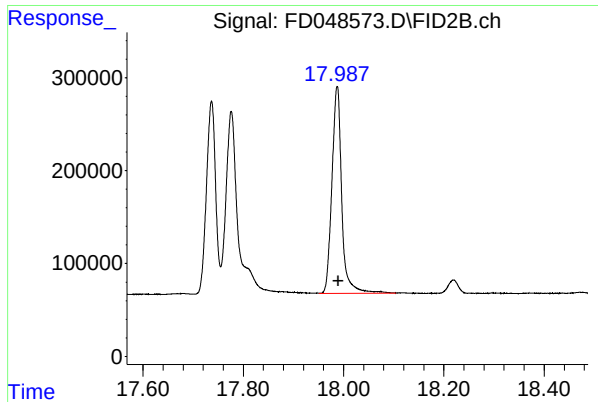
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: -0.007 min
Response: 2639364
Conc: 20.23 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.776 min
Delta R.T.: -0.011 min
Response: 3309486
Conc: 20.34 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.987 min
Delta R.T.: -0.003 min
Response: 3030209
Conc: 19.79 ug/ml

Instrument :

FID_D

ClientSampleId :

20 PPM AROMATIC HC STD ICV

A

B

C

D

E

F

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.195	4.161	4.288	BB	411534	3511974	96.77%	5.226%
2	5.713	5.674	5.868	BB	387327	3621999	99.80%	5.390%
3	6.760	6.714	6.881	BV	365701	3629138	100.00%	5.400%
4	7.372	7.161	7.461	BB	308815	3035391	83.64%	4.517%
5	8.025	7.978	8.154	BB	351890	3549708	97.81%	5.282%
6	8.222	8.168	8.290	BV	187045	2009011	55.36%	2.989%
7	8.319	8.290	8.424	VB	365720	3566386	98.27%	5.307%
8	9.098	9.064	9.241	PB	328779	3449130	95.04%	5.132%
9	10.485	10.384	10.531	BV	326000	3337748	91.97%	4.967%
10	10.560	10.531	10.741	VB	271677	3166872	87.26%	4.712%
11	11.258	11.214	11.344	BB	324343	3418196	94.19%	5.086%
12	12.288	12.247	12.444	PB	286640	3304952	91.07%	4.918%
13	12.581	12.534	12.633	BV	297215	3231023	89.03%	4.808%
14	14.450	14.417	14.470	VV	260406	2986450	82.29%	4.444%
15	14.492	14.470	14.621	VB	257062	3268283	90.06%	4.863%
16	15.997	15.961	16.012	BV	254462	3076351	84.77%	4.578%
17	16.029	16.012	16.102	VV	249107	3007230	82.86%	4.475%
18	16.372	16.264	16.458	BV	231238	3055729	84.20%	4.547%
19	17.737	17.701	17.755	BV	208961	2639364	72.73%	3.927%
20	17.776	17.755	17.951	VV	196335	3309486	91.19%	4.924%
21	17.987	17.951	18.104	VV	224512	3030209	83.50%	4.509%
Sum of corrected areas:						67204630		

Aromatic EPH 102324.M Wed Oct 23 18:51:40 2024

Continuing Calibration Report for SequenceID : FC102824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FC067534.D

Aliphatic C16-C21	7789407.000	60.000	9.843	13.200	129823.450	127235.092	-2.034
Aliphatic C21-C28	9829212.000	80.000	13.201	16.853	122865.150	120090.398	-2.311
Aliphatic C28-C40	12777442.000	120.000	16.854	21.695	106478.683	101093.195	-5.327
Aliphatic EPH	43937898.000	360.000	3.173	21.695	122049.717	118799.912	-2.736
Aliphatic C9-C12	8169484.000	60.000	3.173	6.453	136158.067	135469.641	-0.508
Aliphatic C12-C16	5372353.000	40.000	6.454	9.842	134308.825	131681.730	-1.995

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	28 Oct 2024 09:16
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067534.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.173	6.453	8169484.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5372353.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.200	7789407.000	60.000	ug/ml
Aliphatic C21-C28	13.201	16.853	9829212.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	12777442.000	120.000	ug/ml
Aliphatic EPH	3.173	21.695	43937898.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FC102824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FC067541.D

Aliphatic C16-C21	7857628.000	60.000	9.843	13.200	130960.467	127235.092	-2.928
Aliphatic C21-C28	9913509.000	80.000	13.201	16.853	123918.863	120090.398	-3.188
Aliphatic C28-C40	13005709.000	120.000	16.854	21.695	108380.908	101093.195	-7.209
Aliphatic EPH	44286148.000	360.000	3.173	21.695	123017.078	118799.912	-3.550
Aliphatic C9-C12	8119479.000	60.000	3.173	6.453	135324.650	135469.641	0.107
Aliphatic C12-C16	5389823.000	40.000	6.454	9.842	134745.575	131681.730	-2.327

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	28 Oct 2024 13:55
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067541.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.173	6.453	8119479.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5389823.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.200	7857628.000	60.000	ug/ml
Aliphatic C21-C28	13.201	16.853	9913509.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	13005709.000	120.000	ug/ml
Aliphatic EPH	3.173	21.695	44286148.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FC102824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FC067552.D

Aliphatic C16-C21	7778385.000	60.000	9.843	13.200	129639.750	127235.092	-1.890
Aliphatic C21-C28	9854845.000	80.000	13.201	16.853	123185.563	120090.398	-2.577
Aliphatic C28-C40	13169327.000	120.000	16.854	21.695	109744.392	101093.195	-8.558
Aliphatic EPH	44364168.000	360.000	3.173	21.695	123233.800	118799.912	-3.732
Aliphatic C9-C12	8190095.000	60.000	3.173	6.453	136501.583	135469.641	-0.762
Aliphatic C12-C16	5371516.000	40.000	6.454	9.842	134287.900	131681.730	-1.979

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	29 Oct 2024 08:54
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067552.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.173	6.453	8190095.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5371516.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.200	7778385.000	60.000	ug/ml
Aliphatic C21-C28	13.201	16.853	9854845.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	13169327.000	120.000	ug/ml
Aliphatic EPH	3.173	21.695	44364168.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FD102824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FD048597.D

Aromatic C10-C12	6478652.000	40.000	4.094	5.812	161966.300	176202.694	8.080
Aromatic C12-C16	9681948.000	60.000	5.813	8.417	161365.800	177273.493	8.974
Aromatic C16-C21	11930066.000	80.000	8.418	12.677	149125.825	163832.550	8.977
Aromatic C21-C36	25141839.000	180.000	12.678	18.081	139676.883	152713.153	8.536
Aromatic EPH	53232505.000	360.000	4.094	18.081	147868.069	161887.469	8.660

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	28 Oct 2024 09:53
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048597.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	6478652.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	9681948.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.677	11930066.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.081	25141839.000	180.000	ug/ml
Aromatic EPH	4.094	18.081	53232505.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FD102824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FD048602.D

Aromatic C10-C12	6734968.000	40.000	4.094	5.812	168374.200	176202.694	4.443
Aromatic C12-C16	10158777.000	60.000	5.813	8.417	169312.950	177273.493	4.491
Aromatic C16-C21	12462820.000	80.000	8.418	12.677	155785.250	163832.550	4.912
Aromatic C21-C36	25673678.000	180.000	12.678	18.081	142631.544	152713.153	6.602
Aromatic EPH	55030243.000	360.000	4.094	18.081	152861.786	161887.469	5.575

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	28 Oct 2024 13:17
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048602.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	6734968.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	10158777.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.677	12462820.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.081	25673678.000	180.000	ug/ml
Aromatic EPH	4.094	18.081	55030243.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FD102824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FD048614.D

Aromatic C10-C12	6535868.000	40.000	4.094	5.812	163396.700	176202.694	7.268
Aromatic C12-C16	9728504.000	60.000	5.813	8.417	162141.733	177273.493	8.536
Aromatic C16-C21	11847029.000	80.000	8.418	12.677	148087.863	163832.550	9.610
Aromatic C21-C36	25259345.000	180.000	12.678	18.081	140329.694	152713.153	8.109
Aromatic EPH	53370746.000	360.000	4.094	18.081	148252.072	161887.469	8.423

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	29 Oct 2024 08:54
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048614.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	6535868.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	9728504.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.677	11847029.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.081	25259345.000	180.000	ug/ml
Aromatic EPH	4.094	18.081	53370746.000	360.000	ug/ml