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

Hit Summary Sheet
SW-846

SDG No.: Q2100

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-16									
Q2100-01	TP-16	SOIL	1-Tricosene	*	150.000	J	0	0	ug/Kg
Q2100-01	TP-16	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2100-01	TP-16	SOIL	Benzophenone	*	340.000	J	0	0	ug/Kg
Q2100-01	TP-16	SOIL	n-Hexadecanoic acid	*	430.000	J	0	0	ug/Kg
Q2100-01	TP-16	SOIL	Squalene	*	230.000	J	0	0	ug/Kg
			Total Tics :		**1,400.00**				
			Total Concentration:		**1,400.00**				
Client ID : TP-22									
Q2100-02	TP-22	SOIL	.alpha.-Amyrone	*	460.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	24-Norursa-3,12-diene	*	430.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	2H-Cyclopropa[a]naphthalen-2-or	*	170.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Anthracene, 9-(2-propenyl)-	*	130.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Heptacosyl pentafluoropropionate	*	150.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Hexathiane	*	140.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
			Total Tics :		**2,110.00**				
			Total Concentration:		**2,110.00**				
Client ID : TP-21									
Q2100-03	TP-21	SOIL	Fluoranthene		120.000	J	38.3	220	ug/Kg
			Total Svoc :		**120.00**				
Q2100-03	TP-21	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2100-03	TP-21	SOIL	3-Eicosene, (E)-	*	170.000	J	0	0	ug/Kg
Q2100-03	TP-21	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2100-03	TP-21	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
Q2100-03	TP-21	SOIL	unknown12.869	*	99.700	J	0	0	ug/Kg
			Total Tics :		**849.70**				
			Total Concentration:		**969.70**				
Client ID : TP-45									
Q2100-04	TP-45	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	400.000	AB	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Benzophenone	*	330.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Heptacosane	*	130.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Heptadecyl trifluoroacetate	*	320.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Hexacosane	*	130.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	n-Hexadecanoic acid	*	590.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2100

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration		C	MDL	RDL	Units
Q2100-04	TP-45	SOIL	Octadecanoic acid	*	180.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Tetratetracontane	*	94.800	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	unknown16.827	*	150.000	J	0	0	ug/Kg
			Total Tics :		**2,324.80**				
			Total Concentration:		**2,324.80**				

SAMPLE DATA

Raw Data: **BF142537.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	24.9	U	24.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.4	U	27.4	190	ug/Kg
95-57-8	2-Chlorophenol	27.5	U	27.5	190	ug/Kg
95-48-7	2-Methylphenol	33.7	U	33.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.3	U	42.3	190	ug/Kg
98-86-2	Acetophenone	33.3	U	33.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.4	U	46.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.5	U	53.5	90.3	ug/Kg
67-72-1	Hexachloroethane	19.9	U	19.9	190	ug/Kg
98-95-3	Nitrobenzene	20.7	U	20.7	190	ug/Kg
78-59-1	Isophorone	37.0	U	37.0	190	ug/Kg
88-75-5	2-Nitrophenol	65.7	U	65.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.1	U	73.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.8	U	34.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.9	U	31.9	190	ug/Kg
91-20-3	Naphthalene	25.6	U	25.6	190	ug/Kg
106-47-8	4-Chloroaniline	40.0	U	40.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.6	U	28.6	190	ug/Kg
105-60-2	Caprolactam	58.8	U	58.8	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.4	U	32.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.9	U	28.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.3	U	22.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.8	U	32.8	190	ug/Kg
92-52-4	1,1-Biphenyl	24.6	U	24.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.4	U	25.4	190	ug/Kg
88-74-4	2-Nitroaniline	54.3	U	54.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.6	U	30.6	190	ug/Kg

Raw Data: **BF142537.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.6	U	32.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.9	U	37.9	190	ug/Kg
99-09-2	3-Nitroaniline	51.9	U	51.9	190	ug/Kg
83-32-9	Acenaphthene	24.0	U	24.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.6	U	25.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.5	U	56.5	190	ug/Kg
84-66-2	Diethylphthalate	31.9	U	31.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.1	U	30.1	190	ug/Kg
86-73-7	Fluorene	28.6	U	28.6	190	ug/Kg
100-01-6	4-Nitroaniline	72.5	U	72.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.1	U	37.1	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.4	U	31.4	190	ug/Kg
118-74-1	Hexachlorobenzene	28.6	U	28.6	190	ug/Kg
1912-24-9	Atrazine	38.4	U	38.4	190	ug/Kg
87-86-5	Pentachlorophenol	57.9	U	57.9	370	ug/Kg
85-01-8	Phenanthrene	23.6	U	23.6	190	ug/Kg
120-12-7	Anthracene	37.6	U	37.6	190	ug/Kg
86-74-8	Carbazole	35.2	U	35.2	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.1	U	54.1	190	ug/Kg
206-44-0	Fluoranthene	33.9	U	33.9	190	ug/Kg
129-00-0	Pyrene	40.6	U	40.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.6	U	80.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.4	UQ	41.4	370	ug/Kg
56-55-3	Benzo(a)anthracene	26.0	U	26.0	190	ug/Kg
218-01-9	Chrysene	22.5	U	22.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.8	U	66.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.0	U	98.0	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.4	U	21.4	190	ug/Kg

Raw Data: **BF142537.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.3	U	25.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.3	U	33.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.8	U	32.8	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.9	U	30.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.0	U	29.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.9	U	28.9	190	ug/Kg
123-91-1	1,4-Dioxane	51.0	U	51.0	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.9	U	30.9	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.1		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	84.1		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.7		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.1		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.5		10 - 116	54%	SPK: 150
1718-51-0	Terphenyl-d14	47.5		10 - 105	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.898			
1146-65-2	Naphthalene-d8	436000	8.181			
15067-26-2	Acenaphthene-d10	234000	9.933			
1517-22-2	Phenanthrene-d10	387000	11.422			
1719-03-5	Chrysene-d12	212000	14.063			
1520-96-3	Perylene-d12	223000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
000119-61-9	Benzophenone	340	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	430	J		11.9	ug/Kg
018835-32-0	1-Tricosene	150	J		13.9	ug/Kg
000111-02-4	Squalene	230	J		14.9	ug/Kg

Raw Data: **BF142537.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142536.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.2	U	26.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.8	U	28.8	200	ug/Kg
95-57-8	2-Chlorophenol	29.0	U	29.0	200	ug/Kg
95-48-7	2-Methylphenol	35.5	U	35.5	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.5	U	44.5	200	ug/Kg
98-86-2	Acetophenone	35.0	U	35.0	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.8	U	48.8	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.3	U	56.3	95.0	ug/Kg
67-72-1	Hexachloroethane	20.9	U	20.9	200	ug/Kg
98-95-3	Nitrobenzene	21.7	U	21.7	200	ug/Kg
78-59-1	Isophorone	38.9	U	38.9	200	ug/Kg
88-75-5	2-Nitrophenol	69.1	U	69.1	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.9	U	76.9	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.6	U	36.6	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.6	U	33.6	200	ug/Kg
91-20-3	Naphthalene	26.9	U	26.9	200	ug/Kg
106-47-8	4-Chloroaniline	42.0	U	42.0	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.0	U	30.0	200	ug/Kg
105-60-2	Caprolactam	61.8	U	61.8	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.1	U	34.1	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.4	U	30.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.5	U	23.5	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.5	U	34.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.9	U	25.9	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.7	U	26.7	200	ug/Kg
88-74-4	2-Nitroaniline	57.1	U	57.1	200	ug/Kg
131-11-3	Dimethylphthalate	32.2	U	32.2	200	ug/Kg

Raw Data: **BF142536.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.3	U	34.3	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.9	U	39.9	200	ug/Kg
99-09-2	3-Nitroaniline	54.6	U	54.6	200	ug/Kg
83-32-9	Acenaphthene	25.3	U	25.3	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	26.9	U	26.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.5	U	59.5	200	ug/Kg
84-66-2	Diethylphthalate	33.6	U	33.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.7	U	31.7	200	ug/Kg
86-73-7	Fluorene	30.0	U	30.0	200	ug/Kg
100-01-6	4-Nitroaniline	76.2	U	76.2	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.0	U	39.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.0	U	33.0	200	ug/Kg
118-74-1	Hexachlorobenzene	30.0	U	30.0	200	ug/Kg
1912-24-9	Atrazine	40.4	U	40.4	200	ug/Kg
87-86-5	Pentachlorophenol	60.9	U	60.9	390	ug/Kg
85-01-8	Phenanthrene	24.8	U	24.8	200	ug/Kg
120-12-7	Anthracene	39.5	U	39.5	200	ug/Kg
86-74-8	Carbazole	37.0	U	37.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.9	U	56.9	200	ug/Kg
206-44-0	Fluoranthene	35.6	U	35.6	200	ug/Kg
129-00-0	Pyrene	42.7	U	42.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	84.7	U	84.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.6	UQ	43.6	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.3	U	27.3	200	ug/Kg
218-01-9	Chrysene	23.6	U	23.6	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.3	U	70.3	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.6	U	22.6	200	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.6	U	26.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.0	U	35.0	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.5	U	34.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.5	U	32.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.5	U	30.5	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.4	U	30.4	200	ug/Kg
123-91-1	1,4-Dioxane	53.6	U	53.6	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.5	U	32.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	72.1		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	73.6		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.7		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.1		20 - 109	43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.5		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	42.8		10 - 105	43%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.898			
1146-65-2	Naphthalene-d8	430000	8.181			
15067-26-2	Acenaphthene-d10	234000	9.933			
1517-22-2	Phenanthrene-d10	390000	11.422			
1719-03-5	Chrysene-d12	216000	14.063			
1520-96-3	Perylene-d12	220000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.11	ug/Kg
013798-23-7	Hexathiane	140	J		10.3	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
1000351-81-6	Heptacosyl pentafluoropropionate	150	J		13.9	ug/Kg
006831-17-0	2H-Cyclopropa[a]naphthalen-2-one,	170	J		17.9	ug/Kg
023707-65-5	Anthracene, 9-(2-propenyl)-	130	J		18.2	ug/Kg

Raw Data: **BF142536.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000638-96-0	.alpha.-Amyrone	460	J		18.3	ug/Kg
201358-25-0	24-Norursa-3,12-diene	430	J		18.6	ug/Kg

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

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

Raw Data: **BF142547.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	420	ug/Kg
108-95-2	Phenol	28.2	U	28.2	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.1	U	31.1	220	ug/Kg
95-57-8	2-Chlorophenol	31.2	U	31.2	220	ug/Kg
95-48-7	2-Methylphenol	38.2	U	38.2	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	47.9	U	47.9	220	ug/Kg
98-86-2	Acetophenone	37.7	U	37.7	220	ug/Kg
65794-96-9	3+4-Methylphenols	52.5	U	52.5	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	60.6	U	60.6	100	ug/Kg
67-72-1	Hexachloroethane	22.5	U	22.5	220	ug/Kg
98-95-3	Nitrobenzene	23.4	U	23.4	220	ug/Kg
78-59-1	Isophorone	41.9	U	41.9	220	ug/Kg
88-75-5	2-Nitrophenol	74.4	U	74.4	220	ug/Kg
105-67-9	2,4-Dimethylphenol	82.8	U	82.8	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	39.4	U	39.4	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.2	U	36.2	220	ug/Kg
91-20-3	Naphthalene	29.0	U	29.0	220	ug/Kg
106-47-8	4-Chloroaniline	45.2	U	45.2	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.3	U	32.3	220	ug/Kg
105-60-2	Caprolactam	66.6	U	66.6	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	36.7	U	36.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	32.7	U	32.7	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.3	U	25.3	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.2	U	37.2	220	ug/Kg
92-52-4	1,1-Biphenyl	27.9	U	27.9	220	ug/Kg
91-58-7	2-Chloronaphthalene	28.8	U	28.8	220	ug/Kg
88-74-4	2-Nitroaniline	61.5	U	61.5	220	ug/Kg
131-11-3	Dimethylphthalate	34.6	U	34.6	220	ug/Kg

Raw Data: **BF142547.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	36.9	U	36.9	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	42.9	U	42.9	220	ug/Kg
99-09-2	3-Nitroaniline	58.8	U	58.8	220	ug/Kg
83-32-9	Acenaphthene	27.2	U	27.2	220	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	420	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	420	ug/Kg
132-64-9	Dibenzofuran	29.0	U	29.0	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.0	U	64.0	220	ug/Kg
84-66-2	Diethylphthalate	36.2	U	36.2	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.1	U	34.1	220	ug/Kg
86-73-7	Fluorene	32.3	U	32.3	220	ug/Kg
100-01-6	4-Nitroaniline	82.0	U	82.0	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.0	U	42.0	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.5	U	35.5	220	ug/Kg
118-74-1	Hexachlorobenzene	32.3	U	32.3	220	ug/Kg
1912-24-9	Atrazine	43.4	U	43.4	220	ug/Kg
87-86-5	Pentachlorophenol	65.6	U	65.6	420	ug/Kg
85-01-8	Phenanthrene	26.7	U	26.7	220	ug/Kg
120-12-7	Anthracene	42.6	U	42.6	220	ug/Kg
86-74-8	Carbazole	39.9	U	39.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	61.2	U	61.2	220	ug/Kg
206-44-0	Fluoranthene	120	J	38.3	220	ug/Kg
129-00-0	Pyrene	46.0	U	46.0	220	ug/Kg
85-68-7	Butylbenzylphthalate	91.2	U	91.2	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	46.9	UQ	46.9	420	ug/Kg
56-55-3	Benzo(a)anthracene	29.4	U	29.4	220	ug/Kg
218-01-9	Chrysene	25.4	U	25.4	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	75.7	U	75.7	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.3	U	24.3	220	ug/Kg

Raw Data: **BF142547.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	28.6	U	28.6	220	ug/Kg
50-32-8	Benzo(a)pyrene	37.7	U	37.7	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.2	U	37.2	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.0	U	35.0	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32.8	U	32.8	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	32.7	U	32.7	220	ug/Kg
123-91-1	1,4-Dioxane	57.8	U	57.8	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.0	U	35.0	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	58.8		18 - 112	39%	SPK: 150
13127-88-3	Phenol-d6	57.6		15 - 107	38%	SPK: 150
4165-60-0	Nitrobenzene-d5	37.1		18 - 107	37%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.6		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	53.8		10 - 116	36%	SPK: 150
1718-51-0	Terphenyl-d14	27.2		10 - 105	27%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.898			
1146-65-2	Naphthalene-d8	353000	8.181			
15067-26-2	Acenaphthene-d10	144000	9.933			
1517-22-2	Phenanthrene-d10	233000	11.422			
1719-03-5	Chrysene-d12	236000	14.068			
1520-96-3	Perylene-d12	174000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.11	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
	unknown12.869	99.7	J		12.9	ug/Kg
074685-33-9	3-Eicosene, (E)-	170	J		13.9	ug/Kg

Raw Data: **BF142547.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142530.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	29.0	U	29.0	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.8	U	31.8	220	ug/Kg
95-57-8	2-Chlorophenol	32.0	U	32.0	220	ug/Kg
95-48-7	2-Methylphenol	39.2	U	39.2	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	49.1	U	49.1	220	ug/Kg
98-86-2	Acetophenone	38.6	U	38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.8	U	53.8	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	62.1	U	62.1	100	ug/Kg
67-72-1	Hexachloroethane	23.1	U	23.1	220	ug/Kg
98-95-3	Nitrobenzene	24.0	U	24.0	220	ug/Kg
78-59-1	Isophorone	43.0	U	43.0	220	ug/Kg
88-75-5	2-Nitrophenol	76.3	U	76.3	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.9	U	84.9	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	40.4	U	40.4	220	ug/Kg
120-83-2	2,4-Dichlorophenol	37.1	U	37.1	220	ug/Kg
91-20-3	Naphthalene	29.7	U	29.7	220	ug/Kg
106-47-8	4-Chloroaniline	46.4	U	46.4	220	ug/Kg
87-68-3	Hexachlorobutadiene	33.1	U	33.1	220	ug/Kg
105-60-2	Caprolactam	68.3	U	68.3	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.6	U	37.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.5	U	33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.9	U	25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	38.1	U	38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	28.6	U	28.6	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.5	U	29.5	220	ug/Kg
88-74-4	2-Nitroaniline	63.0	U	63.0	220	ug/Kg
131-11-3	Dimethylphthalate	35.5	U	35.5	220	ug/Kg

Raw Data: **BF142530.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.9	U	37.9	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	44.0	U	44.0	220	ug/Kg
99-09-2	3-Nitroaniline	60.3	U	60.3	220	ug/Kg
83-32-9	Acenaphthene	27.9	U	27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.7	U	29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	65.6	U	65.6	220	ug/Kg
84-66-2	Diethylphthalate	37.1	U	37.1	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	35.0	U	35.0	220	ug/Kg
86-73-7	Fluorene	33.1	U	33.1	220	ug/Kg
100-01-6	4-Nitroaniline	84.1	U	84.1	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	43.1	U	43.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.4	U	36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	33.1	U	33.1	220	ug/Kg
1912-24-9	Atrazine	44.5	U	44.5	220	ug/Kg
87-86-5	Pentachlorophenol	67.2	U	67.2	430	ug/Kg
85-01-8	Phenanthrene	27.4	U	27.4	220	ug/Kg
120-12-7	Anthracene	43.6	U	43.6	220	ug/Kg
86-74-8	Carbazole	40.9	U	40.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.8	U	62.8	220	ug/Kg
206-44-0	Fluoranthene	39.3	U	39.3	220	ug/Kg
129-00-0	Pyrene	47.2	U	47.2	220	ug/Kg
85-68-7	Butylbenzylphthalate	93.5	U	93.5	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	48.1	UQ	48.1	430	ug/Kg
56-55-3	Benzo(a)anthracene	30.1	U	30.1	220	ug/Kg
218-01-9	Chrysene	26.1	U	26.1	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	77.6	U	77.6	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.9	U	24.9	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.3	U	29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.6	U	38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.1	U	38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.9	U	35.9	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.7	U	33.7	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.5	U	33.5	220	ug/Kg
123-91-1	1,4-Dioxane	59.2	U	59.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.9	U	35.9	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	105		18 - 112	70%	SPK: 150
13127-88-3	Phenol-d6	109		15 - 107	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.9		18 - 107	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.7		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	58.3		10 - 105	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	119000	6.898			
1146-65-2	Naphthalene-d8	456000	8.181			
15067-26-2	Acenaphthene-d10	248000	9.933			
1517-22-2	Phenanthrene-d10	426000	11.422			
1719-03-5	Chrysene-d12	252000	14.063			
1520-96-3	Perylene-d12	226000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	400	AB		5.12	ug/Kg
000119-61-9	Benzophenone	330	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	590	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	180	J		12.7	ug/Kg
000630-01-3	Hexacosane	130	J		12.9	ug/Kg
000593-49-7	Heptacosane	130	J		13.6	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	320	J		13.9	ug/Kg

Raw Data: **BF142530.D**

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
007098-22-8	Tetratetracontane	94.8	J		14.2	ug/Kg
	unknown16.827	150	J		16.8	ug/Kg

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

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

QC SUMMARY

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

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168126BL	PB168126BL	2-Fluorophenol	150	123	82		18	112
		Phenol-d6	150	123	82		15	107
		Nitrobenzene-d5	100	77.1	77		18	107
		2-Fluorobiphenyl	100	73.6	74		20	109
		2,4,6-Tribromophenol	150	130	87		10	116
		Terphenyl-d14	100	65.7	66		10	105
PB168126BS	PB168126BS	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	122	82		15	107
		Nitrobenzene-d5	100	74.3	74		18	107
		2-Fluorobiphenyl	100	70.0	70		20	109
		2,4,6-Tribromophenol	150	124	83		10	116
		Terphenyl-d14	100	74.4	74		10	105
Q2100-01	TP-16	2-Fluorophenol	150	82.1	55		18	112
		Phenol-d6	150	84.1	56		15	107
		Nitrobenzene-d5	100	51.7	52		18	107
		2-Fluorobiphenyl	100	50.1	50		20	109
		2,4,6-Tribromophenol	150	81.5	54		10	116
		Terphenyl-d14	100	47.5	48		10	105
Q2100-02	TP-22	2-Fluorophenol	150	72.1	48		18	112
		Phenol-d6	150	73.6	49		15	107
		Nitrobenzene-d5	100	44.7	45		18	107
		2-Fluorobiphenyl	100	43.1	43		20	109
		2,4,6-Tribromophenol	150	69.5	46		10	116
		Terphenyl-d14	100	42.8	43		10	105
Q2100-03	TP-21	2-Fluorophenol	150	58.8	39		18	112
		Phenol-d6	150	57.6	38		15	107
		Nitrobenzene-d5	100	37.1	37		18	107
		2-Fluorobiphenyl	100	41.6	42		20	109
		2,4,6-Tribromophenol	150	53.8	36		10	116
		Terphenyl-d14	100	27.2	27		10	105
Q2100-04	TP-45	2-Fluorophenol	150	105	70		18	112
		Phenol-d6	150	109	72		15	107
		Nitrobenzene-d5	100	66.9	67		18	107
		2-Fluorobiphenyl	100	61.7	62		20	109
		2,4,6-Tribromophenol	150	114	76		10	116
		Terphenyl-d14	100	58.3	58		10	105
Q2100-04MS	TP-45MS	2-Fluorophenol	150	93.8	63		18	112
		Phenol-d6	150	98.1	65		15	107
		Nitrobenzene-d5	100	60.2	60		18	107
		2-Fluorobiphenyl	100	57.3	57		20	109
		2,4,6-Tribromophenol	150	102	68		10	116
		Terphenyl-d14	100	56.4	56		10	105
Q2100-04MSD	TP-45MSD	2-Fluorophenol	150	96.7	64		18	112
		Phenol-d6	150	101	67		15	107
		Nitrobenzene-d5	100	60.9	61		18	107
		2-Fluorobiphenyl	100	58.4	58		20	109
		2,4,6-Tribromophenol	150	103	69		10	116
		Terphenyl-d14	100	55.8	56		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2100-04MS		**Client Sample ID: TP-45MS**						**DataFile: BF142531.D**			
Benzaldehyde	2200	0	1700	ug/Kg	77				10	86	
Phenol	2200	0	1800	ug/Kg	82				67	126	
bis(2-Chloroethyl)ether	2200	0	1800	ug/Kg	82				54	125	
2-Chlorophenol	2200	0	1800	ug/Kg	82				79	107	
2-Methylphenol	2200	0	1800	ug/Kg	82				66	122	
2,2-oxybis(1-Chloropropane)	2200	0	1800	ug/Kg	82				65	110	
Acetophenone	2200	0	1800	ug/Kg	82				75	111	
3+4-Methylphenols	2200	0	1800	ug/Kg	82				66	104	
N-Nitroso-di-n-propylamine	2200	0	1800	ug/Kg	82				59	119	
Hexachloroethane	2200	0	1800	ug/Kg	82				65	117	
Nitrobenzene	2200	0	1900	ug/Kg	86				70	119	
Isophorone	2200	0	1800	ug/Kg	82				76	122	
2-Nitrophenol	2200	0	1900	ug/Kg	86				54	145	
2,4-Dimethylphenol	2200	0	1900	ug/Kg	86				44	135	
bis(2-Chloroethoxy)methane	2200	0	1800	ug/Kg	82				68	112	
2,4-Dichlorophenol	2200	0	1800	ug/Kg	82				72	118	
Naphthalene	2200	0	1800	ug/Kg	82				72	110	
4-Chloroaniline	2200	0	710	ug/Kg	32				10	91	
Hexachlorobutadiene	2200	0	1800	ug/Kg	82				66	114	
Caprolactam	2200	0	2000	ug/Kg	91				51	134	
4-Chloro-3-methylphenol	2200	0	1800	ug/Kg	82				57	132	
2-Methylnaphthalene	2200	0	1800	ug/Kg	82				59	123	
Hexachlorocyclopentadiene	4400	0	3600	ug/Kg	82				10	175	
2,4,6-Trichlorophenol	2200	0	1900	ug/Kg	86				72	117	
2,4,5-Trichlorophenol	2200	0	1800	ug/Kg	82				72	117	
1,1-Biphenyl	2200	0	1800	ug/Kg	82				75	113	
2-Chloronaphthalene	2200	0	1800	ug/Kg	82				67	118	
2-Nitroaniline	2200	0	1900	ug/Kg	86				69	127	
Dimethylphthalate	2200	0	1900	ug/Kg	86				70	113	
Acenaphthylene	2200	0	1800	ug/Kg	82				79	118	
2,6-Dinitrotoluene	2200	0	1900	ug/Kg	86				70	125	
3-Nitroaniline	2200	0	1100	ug/Kg	50				30	99	
Acenaphthene	2200	0	2000	ug/Kg	91				70	121	
2,4-Dinitrophenol	4400	0	4400	ug/Kg	100				10	155	
4-Nitrophenol	4400	0	3900	ug/Kg	89				45	133	
Dibenzofuran	2200	0	1800	ug/Kg	82				72	110	
2,4-Dinitrotoluene	2200	0	1900	ug/Kg	86				55	128	
Diethylphthalate	2200	0	1800	ug/Kg	82				70	112	
4-Chlorophenyl-phenylether	2200	0	1800	ug/Kg	82				71	108	
Fluorene	2200	0	1800	ug/Kg	82				68	116	
4-Nitroaniline	2200	0	1900	ug/Kg	86				55	120	
4,6-Dinitro-2-methylphenol	2200	0	2200	ug/Kg	100				10	160	
N-Nitrosodiphenylamine	2200	0	1800	ug/Kg	82				73	118	
4-Bromophenyl-phenylether	2200	0	1800	ug/Kg	82				65	121	
Hexachlorobenzene	2200	0	1900	ug/Kg	86				67	118	
Atrazine	2200	0	2100	ug/Kg	95				79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4400	0	3900	ug/Kg	89				47	128	
Phenanthrene	2200	0	1800	ug/Kg	82				52	128	
Anthracene	2200	0	1800	ug/Kg	82				62	124	
Carbazole	2200	0	1900	ug/Kg	86				59	119	
Di-n-butylphthalate	2200	0	2000	ug/Kg	91				69	118	
Fluoranthene	2200	0	1900	ug/Kg	86				44	125	
Pyrene	2200	0	1800	ug/Kg	82				26	142	
Butylbenzylphthalate	2200	0	2300	ug/Kg	105				64	126	
3,3-Dichlorobenzidine	2200	0	1300	ug/Kg	59				33	116	
Benzo(a)anthracene	2200	0	1800	ug/Kg	82				71	114	
Chrysene	2200	0	1900	ug/Kg	86				57	121	
bis(2-Ethylhexyl)phthalate	2200	0	2300	ug/Kg	105				42	169	
Di-n-octyl phthalate	2200	0	1900	ug/Kg	86				23	175	
Benzo(b)fluoranthene	2200	0	2000	ug/Kg	91				67	121	
Benzo(k)fluoranthene	2200	0	1700	ug/Kg	77				57	134	
Benzo(a)pyrene	2200	0	1900	ug/Kg	86				70	142	
Indeno(1,2,3-cd)pyrene	2200	0	1900	ug/Kg	86				40	129	
Dibenz(a,h)anthracene	2200	0	1900	ug/Kg	86				43	123	
Benzo(g,h,i)perylene	2200	0	1900	ug/Kg	86				24	125	
1,2,4,5-Tetrachlorobenzene	2200	0	1800	ug/Kg	82				69	124	
1,4-Dioxane	2200	0	1500	ug/Kg	68				46	112	
2,3,4,6-Tetrachlorophenol	2200	0	1900	ug/Kg	86				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2100-04MSD		**Client Sample ID: TP-45MSD**						**DataFile: BF142532.D**			
Benzaldehyde	2200	0	1700	ug/Kg	77	0			10	86	20
Phenol	2200	0	1900	ug/Kg	86	5			67	126	20
bis(2-Chloroethyl)ether	2200	0	1900	ug/Kg	86	5			54	125	20
2-Chlorophenol	2200	0	1900	ug/Kg	86	5			79	107	20
2-Methylphenol	2200	0	1900	ug/Kg	86	5			66	122	20
2,2-oxybis(1-Chloropropane)	2200	0	1900	ug/Kg	86	5			65	110	20
Acetophenone	2200	0	1800	ug/Kg	82	0			75	111	20
3+4-Methylphenols	2200	0	1800	ug/Kg	82	0			66	104	20
N-Nitroso-di-n-propylamine	2200	0	1800	ug/Kg	82	0			59	119	20
Hexachloroethane	2200	0	1800	ug/Kg	82	0			65	117	20
Nitrobenzene	2200	0	1900	ug/Kg	86	0			70	119	20
Isophorone	2200	0	1800	ug/Kg	82	0			76	122	20
2-Nitrophenol	2200	0	1900	ug/Kg	86	0			54	145	20
2,4-Dimethylphenol	2200	0	1900	ug/Kg	86	0			44	135	20
bis(2-Chloroethoxy)methane	2200	0	1800	ug/Kg	82	0			68	112	20
2,4-Dichlorophenol	2200	0	1900	ug/Kg	86	5			72	118	20
Naphthalene	2200	0	1800	ug/Kg	82	0			72	110	20
4-Chloroaniline	2200	0	740	ug/Kg	34	6			10	91	20
Hexachlorobutadiene	2200	0	1800	ug/Kg	82	0			66	114	20
Caprolactam	2200	0	2100	ug/Kg	95	4			51	134	20
4-Chloro-3-methylphenol	2200	0	1900	ug/Kg	86	5			57	132	20
2-Methylnaphthalene	2200	0	1800	ug/Kg	82	0			59	123	20
Hexachlorocyclopentadiene	4400	0	3700	ug/Kg	84	2			10	175	20
2,4,6-Trichlorophenol	2200	0	1900	ug/Kg	86	0			72	117	20
2,4,5-Trichlorophenol	2200	0	1900	ug/Kg	86	5			72	117	20
1,1-Biphenyl	2200	0	1800	ug/Kg	82	0			75	113	20
2-Chloronaphthalene	2200	0	1900	ug/Kg	86	5			67	118	20
2-Nitroaniline	2200	0	1900	ug/Kg	86	0			69	127	20
Dimethylphthalate	2200	0	1900	ug/Kg	86	0			70	113	20
Acenaphthylene	2200	0	1800	ug/Kg	82	0			79	118	20
2,6-Dinitrotoluene	2200	0	1900	ug/Kg	86	0			70	125	20
3-Nitroaniline	2200	0	1100	ug/Kg	50	0			30	99	20
Acenaphthene	2200	0	2000	ug/Kg	91	0			70	121	20
2,4-Dinitrophenol	4400	0	4500	ug/Kg	102	2			10	155	20
4-Nitrophenol	4400	0	3900	ug/Kg	89	0			45	133	20
Dibenzofuran	2200	0	1800	ug/Kg	82	0			72	110	20
2,4-Dinitrotoluene	2200	0	2000	ug/Kg	91	6			55	128	20
Diethylphthalate	2200	0	1900	ug/Kg	86	5			70	112	20
4-Chlorophenyl-phenylether	2200	0	1800	ug/Kg	82	0			71	108	20
Fluorene	2200	0	1800	ug/Kg	82	0			68	116	20
4-Nitroaniline	2200	0	1900	ug/Kg	86	0			55	120	20
4,6-Dinitro-2-methylphenol	2200	0	2300	ug/Kg	105	5			10	160	20
N-Nitrosodiphenylamine	2200	0	1900	ug/Kg	86	5			73	118	20
4-Bromophenyl-phenylether	2200	0	1900	ug/Kg	86	5			65	121	20
Hexachlorobenzene	2200	0	1900	ug/Kg	86	0			67	118	20
Atrazine	2200	0	2100	ug/Kg	95	0			79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4400	0	4000	ug/Kg	91		2		47	128	20
Phenanthrene	2200	0	1900	ug/Kg	86		5		52	128	20
Anthracene	2200	0	1900	ug/Kg	86		5		62	124	20
Carbazole	2200	0	1900	ug/Kg	86		0		59	119	20
Di-n-butylphthalate	2200	0	2000	ug/Kg	91		0		69	118	20
Fluoranthene	2200	0	1900	ug/Kg	86		0		44	125	20
Pyrene	2200	0	1800	ug/Kg	82		0		26	142	20
Butylbenzylphthalate	2200	0	2300	ug/Kg	105		0		64	126	20
3,3-Dichlorobenzidine	2200	0	1400	ug/Kg	64		8		33	116	20
Benzo(a)anthracene	2200	0	1900	ug/Kg	86		5		71	114	20
Chrysene	2200	0	2000	ug/Kg	91		6		57	121	20
bis(2-Ethylhexyl)phthalate	2200	0	2300	ug/Kg	105		0		42	169	20
Di-n-octyl phthalate	2200	0	1900	ug/Kg	86		0		23	175	20
Benzo(b)fluoranthene	2200	0	2000	ug/Kg	91		0		67	121	20
Benzo(k)fluoranthene	2200	0	1700	ug/Kg	77		0		57	134	20
Benzo(a)pyrene	2200	0	1900	ug/Kg	86		0		70	142	20
Indeno(1,2,3-cd)pyrene	2200	0	1900	ug/Kg	86		0		40	129	20
Dibenz(a,h)anthracene	2200	0	1900	ug/Kg	86		0		43	123	20
Benzo(g,h,i)perylene	2200	0	1900	ug/Kg	86		0		24	125	20
1,2,4,5-Tetrachlorobenzene	2200	0	1900	ug/Kg	86		5		69	124	20
1,4-Dioxane	2200	0	1500	ug/Kg	68		0		46	112	20
2,3,4,6-Tetrachlorophenol	2200	0	1900	ug/Kg	86		0		69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142529.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168126BS	Benzaldehyde	1700	1300	ug/Kg	76				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				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	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	440	ug/Kg	26				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1700	ug/Kg	100				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	2800	ug/Kg	85				45	165	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	800	ug/Kg	47				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				37	128	
	4-Nitrophenol	3300	3300	ug/Kg	100				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				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	1600	ug/Kg	94				76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142529.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168126BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	3000	ug/Kg	91				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	690	ug/Kg	41		*		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	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				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	1500	ug/Kg	88				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168126BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: BF142528.D Lab Sample ID: PB168126BL

Instrument ID: BNA_F Date Extracted: 05/22/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/23/2025

Level: (low/med) LOW Time Analyzed: 11:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168126BS	PB168126BS	BF142529.D	05/23/2025
TP-45	Q2100-04	BF142530.D	05/23/2025
TP-22	Q2100-02	BF142536.D	05/23/2025
TP-16	Q2100-01	BF142537.D	05/23/2025
TP-21	Q2100-03	BF142547.D	05/23/2025
TP-45MS	Q2100-04MS	BF142531.D	05/23/2025
TP-45MSD	Q2100-04MSD	BF142532.D	05/23/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: BF142465.D DFTPP Injection Date: 05/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	44.9
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	6.6
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	19.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 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	BF142467.D	05/20/2025	12:10
SSTDICC005	SSTDICC005	BF142468.D	05/20/2025	12:38
SSTDICC010	SSTDICC010	BF142469.D	05/20/2025	13:07
SSTDICC020	SSTDICC020	BF142470.D	05/20/2025	13:36
SSTDICCC040	SSTDICCC040	BF142471.D	05/20/2025	14:05
SSTDICC050	SSTDICC050	BF142472.D	05/20/2025	14:34
SSTDICC060	SSTDICC060	BF142473.D	05/20/2025	15:03
SSTDICC080	SSTDICC080	BF142474.D	05/20/2025	15:31

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: BF142526.D DFTPP Injection Date: 05/23/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	34.0
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	20.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142527.D	05/23/2025	11:12
PB168126BL	PB168126BL	BF142528.D	05/23/2025	11:41
PB168126BS	PB168126BS	BF142529.D	05/23/2025	12:10
TP-45	Q2100-04	BF142530.D	05/23/2025	12:43
TP-45MS	Q2100-04MS	BF142531.D	05/23/2025	13:12
TP-45MSD	Q2100-04MSD	BF142532.D	05/23/2025	13:41
TP-22	Q2100-02	BF142536.D	05/23/2025	15:37
TP-16	Q2100-01	BF142537.D	05/23/2025	16:05
TP-21	Q2100-03	BF142547.D	05/23/2025	20:53

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/23/2025

Lab File ID: BF142527.D Time Analyzed: 11:12

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	102129	6.898	402339	8.19	219662	9.94
	UPPER LIMIT	204258	7.398	804678	8.686	439324	10.439
	LOWER LIMIT	51064.5	6.398	201170	7.686	109831	9.439
	EPA SAMPLE NO.						
01	PB168126BL	108646	6.90	416736	8.18	234758	9.93
02	PB168126BS	113674	6.90	445507	8.18	254111	9.94
03	TP-45	118740	6.90	456173	8.18	248248	9.93
04	TP-45MS	126551	6.90	479831	8.18	253217	9.94
05	TP-45MSD	123385	6.90	475116	8.18	248986	9.94
06	TP-16	114387	6.90	436187	8.18	233620	9.93
07	TP-22	111473	6.90	430329	8.18	234472	9.93
08	TP-21	105842	6.90	353306	8.18	144326	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/23/2025

Lab File ID: BF142527.D Time Analyzed: 11:12

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	382968	11.427	205798	14.068	210218	15.562
	UPPER LIMIT	765936	11.927	411596	14.568	420436	16.062
	LOWER LIMIT	191484	10.927	102899	13.568	105109	15.062
	EPA SAMPLE NO.						
01	PB168126BL	439276	11.43	317833	14.07	240419	15.56
02	PB168126BS	449715	11.43	246622	14.08	234935	15.56
03	TP-45	426449	11.42	251802	14.06	225815	15.56
04	TP-45MS	418845	11.43	224873	14.07	247916	15.56
05	TP-45MSD	400587	11.43	218790	14.07	251763	15.56
06	TP-16	387454	11.42	212215	14.06	222870	15.56
07	TP-22	390498	11.42	216372	14.06	220082	15.56
08	TP-21	233043	11.42	235632	14.07	174227	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

QC SAMPLE DATA

Raw Data: **BF142528.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BL	SDG No.:	Q2100
Lab Sample ID:	PB168126BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.1	U	58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.7	U	64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.0	U	52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

Raw Data: **BF142528.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BL	SDG No.:	Q2100
Lab Sample ID:	PB168126BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.0	U	50.0	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.1	U	64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.2	U	51.2	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.3	U	71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.1	U	59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

Raw Data: **BF142528.D**

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168126BL			SDG No.:	Q2100
Lab Sample ID:	PB168126BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	123		18 - 112	82%	SPK: 150
13127-88-3	Phenol-d6	123		15 - 107	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.1		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.6		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		10 - 116	87%	SPK: 150
1718-51-0	Terphenyl-d14	65.7		10 - 105	66%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	6.898			
1146-65-2	Naphthalene-d8	417000	8.181			
15067-26-2	Acenaphthene-d10	235000	9.933			
1517-22-2	Phenanthrene-d10	439000	11.428			
1719-03-5	Chrysene-d12	318000	14.069			
1520-96-3	Perylene-d12	240000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	A		5.13	ug/Kg

Raw Data: **BF142528.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168126BL			SDG No.:	Q2100
Lab Sample ID:	PB168126BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BS	SDG No.:	Q2100
Lab Sample ID:	PB168126BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142529.D	1	05/22/25 09:00	05/23/25 12:10	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1400		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1400		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	440		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		25.3	170	ug/Kg
105-60-2	Caprolactam	1700		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1500		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

Raw Data: **BF142529.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BS	SDG No.:	Q2100
Lab Sample ID:	PB168126BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142529.D	1	05/22/25 09:00	05/23/25 12:10	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1400		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	800		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		26.7	170	ug/Kg
86-73-7	Fluorene	1400		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		25.3	170	ug/Kg
1912-24-9	Atrazine	1600		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1400		20.9	170	ug/Kg
120-12-7	Anthracene	1400		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1500		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	690		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

Raw Data: **BF142529.D**

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168126BS			SDG No.:	Q2100
Lab Sample ID:	PB168126BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142529.D	1	05/22/25 09:00	05/23/25 12:10	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1200		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	122		15 - 107	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.3		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.0		20 - 109	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		10 - 116	83%	SPK: 150
1718-51-0	Terphenyl-d14	74.4		10 - 105	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.899			
1146-65-2	Naphthalene-d8	446000	8.181			
15067-26-2	Acenaphthene-d10	254000	9.939			
1517-22-2	Phenanthrene-d10	450000	11.428			
1719-03-5	Chrysene-d12	247000	14.075			
1520-96-3	Perylene-d12	235000	15.563			

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142531.D	1	05/22/25 09:00	05/23/25 13:12	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		200	430	ug/Kg
108-95-2	Phenol	1800		28.9	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		31.8	220	ug/Kg
95-57-8	2-Chlorophenol	1800		31.9	220	ug/Kg
95-48-7	2-Methylphenol	1800		39.1	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		49.1	220	ug/Kg
98-86-2	Acetophenone	1800		38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	1800		53.8	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		62.0	100	ug/Kg
67-72-1	Hexachloroethane	1800		23.0	220	ug/Kg
98-95-3	Nitrobenzene	1900		24.0	220	ug/Kg
78-59-1	Isophorone	1800		42.9	220	ug/Kg
88-75-5	2-Nitrophenol	1900		76.2	220	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		84.8	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		40.3	220	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		37.0	220	ug/Kg
91-20-3	Naphthalene	1800		29.7	220	ug/Kg
106-47-8	4-Chloroaniline	710		46.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	1800		33.1	220	ug/Kg
105-60-2	Caprolactam	2000		68.2	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		37.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	1800		33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3600	E	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	1800		28.5	220	ug/Kg
91-58-7	2-Chloronaphthalene	1800		29.4	220	ug/Kg
88-74-4	2-Nitroaniline	1900		63.0	220	ug/Kg
131-11-3	Dimethylphthalate	1900		35.5	220	ug/Kg

Raw Data: **BF142531.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142531.D	1	05/22/25 09:00	05/23/25 13:12	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		37.8	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		44.0	220	ug/Kg
99-09-2	3-Nitroaniline	1100		60.2	220	ug/Kg
83-32-9	Acenaphthene	2000		27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	4400	E	300	430	ug/Kg
100-02-7	4-Nitrophenol	3900	E	140	430	ug/Kg
132-64-9	Dibenzofuran	1800		29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		65.6	220	ug/Kg
84-66-2	Diethylphthalate	1800		37.0	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		34.9	220	ug/Kg
86-73-7	Fluorene	1800		33.1	220	ug/Kg
100-01-6	4-Nitroaniline	1900		84.0	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		43.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	1900		33.1	220	ug/Kg
1912-24-9	Atrazine	2100		44.5	220	ug/Kg
87-86-5	Pentachlorophenol	3900	E	67.1	430	ug/Kg
85-01-8	Phenanthrene	1800		27.4	220	ug/Kg
120-12-7	Anthracene	1800		43.6	220	ug/Kg
86-74-8	Carbazole	1900		40.8	220	ug/Kg
84-74-2	Di-n-butylphthalate	2000		62.7	220	ug/Kg
206-44-0	Fluoranthene	1900		39.3	220	ug/Kg
129-00-0	Pyrene	1800		47.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	2300		93.5	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		48.0	430	ug/Kg
56-55-3	Benzo(a)anthracene	1800		30.1	220	ug/Kg
218-01-9	Chrysene	1900		26.0	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		77.5	220	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		24.9	220	ug/Kg

Raw Data: **BF142531.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142531.D	1	05/22/25 09:00	05/23/25 13:12	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	1900		38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		35.9	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		33.6	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		33.5	220	ug/Kg
123-91-1	1,4-Dioxane	1500		59.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		35.9	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	93.8		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	98.1		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.2		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.3		20 - 109	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		10 - 116	68%	SPK: 150
1718-51-0	Terphenyl-d14	56.4		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	480000	8.181			
15067-26-2	Acenaphthene-d10	253000	9.939			
1517-22-2	Phenanthrene-d10	419000	11.428			
1719-03-5	Chrysene-d12	225000	14.069			
1520-96-3	Perylene-d12	248000	15.563			

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

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142532.D	1	05/22/25 09:00	05/23/25 13:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		200	430	ug/Kg
108-95-2	Phenol	1900		28.9	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		31.8	220	ug/Kg
95-57-8	2-Chlorophenol	1900		32.0	220	ug/Kg
95-48-7	2-Methylphenol	1900		39.2	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		49.1	220	ug/Kg
98-86-2	Acetophenone	1800		38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	1800		53.8	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		62.1	100	ug/Kg
67-72-1	Hexachloroethane	1800		23.1	220	ug/Kg
98-95-3	Nitrobenzene	1900		24.0	220	ug/Kg
78-59-1	Isophorone	1800		43.0	220	ug/Kg
88-75-5	2-Nitrophenol	1900		76.2	220	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		84.9	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		40.3	220	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		37.1	220	ug/Kg
91-20-3	Naphthalene	1800		29.7	220	ug/Kg
106-47-8	4-Chloroaniline	740		46.4	220	ug/Kg
87-68-3	Hexachlorobutadiene	1800		33.1	220	ug/Kg
105-60-2	Caprolactam	2100		68.2	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		37.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	1800		33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	1800		28.6	220	ug/Kg
91-58-7	2-Chloronaphthalene	1900		29.5	220	ug/Kg
88-74-4	2-Nitroaniline	1900		63.0	220	ug/Kg
131-11-3	Dimethylphthalate	1900		35.5	220	ug/Kg

Raw Data: **BF142532.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142532.D	1	05/22/25 09:00	05/23/25 13:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		37.9	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		44.0	220	ug/Kg
99-09-2	3-Nitroaniline	1100		60.2	220	ug/Kg
83-32-9	Acenaphthene	2000		27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	4500	E	300	430	ug/Kg
100-02-7	4-Nitrophenol	3900	E	140	430	ug/Kg
132-64-9	Dibenzofuran	1800		29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		65.6	220	ug/Kg
84-66-2	Diethylphthalate	1900		37.1	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		35.0	220	ug/Kg
86-73-7	Fluorene	1800		33.1	220	ug/Kg
100-01-6	4-Nitroaniline	1900		84.1	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2300		130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		43.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	1900		33.1	220	ug/Kg
1912-24-9	Atrazine	2100		44.5	220	ug/Kg
87-86-5	Pentachlorophenol	4000	E	67.2	430	ug/Kg
85-01-8	Phenanthrene	1900		27.4	220	ug/Kg
120-12-7	Anthracene	1900		43.6	220	ug/Kg
86-74-8	Carbazole	1900		40.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	2000		62.7	220	ug/Kg
206-44-0	Fluoranthene	1900		39.3	220	ug/Kg
129-00-0	Pyrene	1800		47.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	2300		93.5	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		48.1	430	ug/Kg
56-55-3	Benzo(a)anthracene	1900		30.1	220	ug/Kg
218-01-9	Chrysene	2000		26.1	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		77.5	220	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		24.9	220	ug/Kg

Raw Data: **BF142532.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142532.D	1	05/22/25 09:00	05/23/25 13:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	1900		38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		35.9	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		33.7	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		33.5	220	ug/Kg
123-91-1	1,4-Dioxane	1500		59.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		35.9	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.7		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	101		15 - 107	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.9		18 - 107	61%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.4		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		10 - 116	69%	SPK: 150
1718-51-0	Terphenyl-d14	55.8		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	123000	6.898			
1146-65-2	Naphthalene-d8	475000	8.181			
15067-26-2	Acenaphthene-d10	249000	9.939			
1517-22-2	Phenanthrene-d10	401000	11.428			
1719-03-5	Chrysene-d12	219000	14.069			
1520-96-3	Perylene-d12	252000	15.563			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142467.D 5 =BF142468.D 10 =BF142469.D 20 =BF142470.D 40 =BF142471.D 50 =BF142472.D 60 =BF142473.D 80 =BF1424
74.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.493	0.460	0.474	0.458	0.500	0.486	0.456	0.475	3.79
3)		Pyridine		1.237	1.150	1.212	1.170	1.273	1.234	1.190	1.210	3.52
4)		n-Nitrosodimet...		0.612	0.593	0.627	0.619	0.673	0.652	0.621	0.628	4.21
5)	S	2-Fluorophenol		1.264	1.214	1.225	1.125	1.220	1.164	1.098	1.187	5.03
6)		Aniline		2.044	1.889	1.963	1.844	1.993	1.910	1.808	1.921	4.35
7)	S	Phenol-d6		1.530	1.449	1.459	1.367	1.467	1.403	1.328	1.429	4.77
8)		2-Chlorophenol		1.345	1.293	1.315	1.252	1.338	1.285	1.223	1.293	3.44
9)		Benzaldehyde		1.035	0.975	0.969	0.817	0.872	0.758	0.591	0.859	17.81
10)	C	Phenol		1.716	1.621	1.646	1.530	1.657	1.597	1.487	1.608	4.85
11)		bis(2-Chloroet...		1.202	1.155	1.168	1.108	1.209	1.156	1.105	1.157	3.52
12)		1,3-Dichlorobe...		1.562	1.470	1.473	1.389	1.482	1.407	1.317	1.443	5.48
13)	C	1,4-Dichlorobe...		1.540	1.476	1.491	1.407	1.495	1.430	1.335	1.453	4.70
14)		1,2-Dichlorobe...		1.495	1.405	1.436	1.327	1.432	1.357	1.284	1.391	5.20
15)		Benzyl Alcohol		1.059	1.024	1.058	1.021	1.131	1.073	1.026	1.056	3.69
16)		2,2'-oxybis(1-...		2.082	1.978	1.983	1.868	2.011	1.898	1.786	1.944	5.11
17)		2-Methylphenol		1.040	0.992	1.026	0.976	1.053	1.015	0.965	1.010	3.27
18)		Hexachloroethane		0.533	0.503	0.523	0.489	0.529	0.497	0.477	0.507	4.23
19)	P	n-Nitroso-di-n...	0.923	0.941	0.880	0.900	0.843	0.912	0.866	0.819	0.886	4.69
20)		3+4-Methylphenols		1.412	1.319	1.337	1.246	1.337	1.250	1.149	1.293	6.59
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.480	0.453	0.459	0.429	0.452	0.428	0.399	0.443	5.98
23)	S	Nitrobenzene-d5		0.376	0.365	0.379	0.356	0.382	0.363	0.347	0.367	3.51
24)		Nitrobenzene		0.338	0.328	0.338	0.323	0.343	0.331	0.316	0.331	2.94
25)		Isophorone		0.636	0.615	0.620	0.593	0.638	0.607	0.585	0.613	3.26
26)	C	2-Nitrophenol		0.167	0.170	0.180	0.175	0.190	0.182	0.173	0.177	4.44
27)		2,4-Dimethylph...		0.315	0.315	0.318	0.303	0.325	0.312	0.295	0.312	3.22
28)		bis(2-Chloroet...		0.406	0.394	0.394	0.364	0.391	0.375	0.358	0.383	4.63
29)	C	2,4-Dichloroph...		0.288	0.282	0.290	0.276	0.300	0.283	0.266	0.283	3.74
30)		1,2,4-Trichlor...		0.325	0.313	0.317	0.295	0.320	0.300	0.284	0.308	4.89
31)		Naphthalene		1.061	1.021	1.020	0.941	1.007	0.953	0.891	0.985	5.94
32)		Benzoic acid			0.153	0.176	0.188	0.211	0.209	0.201	0.190	11.73
33)		4-Chloroaniline		0.424	0.409	0.416	0.389	0.415	0.397	0.343	0.399	6.87
34)	C	Hexachlorobuta...		0.203	0.192	0.197	0.187	0.198	0.192	0.176	0.192	4.52
35)		Caprolactam		0.081	0.076	0.083	0.079	0.085	0.078	0.076	0.080	4.29
36)	C	4-Chloro-3-met...		0.304	0.290	0.299	0.282	0.301	0.287	0.271	0.291	4.02
37)		2-Methylnaphth...		0.679	0.638	0.646	0.590	0.631	0.598	0.556	0.620	6.62
38)		1-Methylnaphth...		0.703	0.668	0.672	0.615	0.650	0.611	0.566	0.641	7.19

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.592	0.580	0.588	0.552	0.592	0.573	0.544	0.574	3.39
41)	P	Hexachlorocycl...	0.318	0.350	0.383	0.393	0.430	0.425	0.411	0.387	10.57
42)	S	2,4,6-Tribromo...	0.230	0.225	0.234	0.211	0.233	0.218	0.202	0.222	5.39
43)	C	2,4,6-Trichlor...	0.387	0.373	0.406	0.371	0.406	0.388	0.379	0.387	3.69
44)		2,4,5-Trichlor...	0.410	0.411	0.416	0.395	0.437	0.408	0.381	0.408	4.27
45)	S	2-Fluorobiphenyl	1.726	1.619	1.558	1.387	1.480	1.396	1.268	1.490	10.46
46)		1,1'-Biphenyl	1.672	1.605	1.595	1.480	1.595	1.507	1.408	1.552	5.82
47)		2-Chloronaphth...	1.218	1.170	1.177	1.094	1.183	1.122	1.061	1.146	4.84
48)		2-Nitroaniline	0.333	0.318	0.338	0.324	0.354	0.332	0.320	0.331	3.72
49)		Acenaphthylene	2.064	1.982	2.027	1.851	1.998	1.885	1.745	1.936	5.85
50)		Dimethylphthalate	1.441	1.340	1.367	1.255	1.366	1.256	1.211	1.320	6.16
51)		2,6-Dinitrotol...	0.290	0.283	0.289	0.280	0.302	0.281	0.268	0.285	3.74
52)	C	Acenaphthene	1.259	1.222	1.227	1.120	1.223	1.146	1.077	1.182	5.72
53)		3-Nitroaniline	0.320	0.309	0.327	0.299	0.330	0.305	0.287	0.311	5.02
54)	P	2,4-Dinitrophenol		0.110	0.137	0.149	0.169	0.160	0.158	0.147	14.36
55)		Dibenzofuran	1.886	1.766	1.768	1.606	1.736	1.635	1.509	1.701	7.38
56)	P	4-Nitrophenol	0.221	0.217	0.242	0.227	0.252	0.229	0.220	0.230	5.57
57)		2,4-Dinitrotol...	0.372	0.367	0.387	0.364	0.398	0.372	0.344	0.372	4.62
58)		Fluorene	1.477	1.399	1.372	1.231	1.343	1.238	1.140	1.314	8.85
59)		2,3,4,6-Tetrac...	0.347	0.336	0.360	0.333	0.361	0.333	0.317	0.341	4.71
60)		Diethylphthalate	1.422	1.310	1.359	1.231	1.343	1.218	1.140	1.289	7.51
61)		4-Chlorophenyl...	0.724	0.678	0.676	0.609	0.653	0.612	0.566	0.646	8.25
62)		4-Nitroaniline	0.303	0.283	0.303	0.277	0.294	0.265	0.251	0.282	6.95
63)		Azobenzene	1.239	1.194	1.188	1.107	1.197	1.123	1.055	1.158	5.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.086	0.094	0.110	0.115	0.129	0.125	0.123	0.112	14.72
66)	c	n-Nitrosodiphe...	0.712	0.682	0.696	0.649	0.697	0.694	0.660	0.684	3.30
67)		4-Bromophenyl-...	0.240	0.235	0.239	0.222	0.246	0.243	0.230	0.236	3.45
68)		Hexachlorobenzene	0.265	0.267	0.263	0.251	0.273	0.262	0.250	0.262	3.19
69)		Atrazine	0.184	0.174	0.186	0.178	0.196	0.181	0.174	0.182	4.29
70)	C	Pentachlorophenol	0.130	0.135	0.149	0.147	0.162	0.157	0.154	0.148	7.88
71)		Phenanthrene	1.196	1.094	1.100	1.012	1.085	1.033	0.964	1.069	7.00
72)		Anthracene	1.191	1.132	1.124	1.036	1.110	1.048	0.996	1.091	6.15
73)		Carbazole	1.030	0.968	0.982	0.889	0.950	0.877	0.832	0.933	7.39
74)		Di-n-butylphth...	1.108	1.039	1.083	0.976	1.059	0.974	0.908	1.021	6.95
75)	C	Fluoranthene	1.177	1.081	1.052	0.938	0.997	0.901	0.846	0.999	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.670	0.782	0.903	0.797	0.805	0.698	0.556	0.744	15.12
78)		Pyrene	1.929	1.967	2.066	1.859	1.959	1.773	1.507	1.866	9.79
79)	S	Terphenyl-d14	1.624	1.582	1.660	1.423	1.492	1.337	1.126	1.464	12.80
80)		Butylbenzylpht...	0.462	0.453	0.525	0.526	0.575	0.550	0.517	0.516	8.54
81)		Benzo(a)anthra...	1.424	1.287	1.403	1.278	1.391	1.327	1.238	1.336	5.36
82)		3,3'-Dichlorob...	0.360	0.364	0.402	0.407	0.444	0.442	0.417	0.405	8.30
83)		Chrysene	1.222	1.204	1.193	1.145	1.255	1.223	1.158	1.200	3.20
84)		Bis(2-ethylhex...	0.510	0.548	0.618	0.673	0.765	0.778	0.727	0.660	15.91
85)	c	Di-n-octyl pht...		0.958	1.108	1.266	1.432	1.542	1.437	1.290	17.30

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.421	1.495	1.583	1.448	1.583	1.546	1.434	1.501	4.64
88)		Benzo(b)fluora...	1.317	1.105	1.293	1.126	1.209	1.122	1.114	1.184	7.62
89)		Benzo(k)fluora...	1.191	1.166	1.032	1.042	1.178	1.128	1.023	1.109	6.68
90)	C	Benzo(a)pyrene	1.154	1.081	1.114	1.081	1.185	1.133	1.062	1.116	4.00
91)		Dibenzo(a,h)an...	1.152	1.228	1.275	1.184	1.290	1.245	1.149	1.218	4.67
92)		Benzo(g,h,i)pe...	1.154	1.220	1.270	1.180	1.299	1.245	1.158	1.218	4.64

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: BNA_F Calibration Date/Time: 05/23/2025 11:12

Lab File ID: BF142527.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.187	1.152		-2.9	
Benzaldehyde	0.859	0.837		-2.6	
Phenol-d6	1.429	1.392		-2.6	
Phenol	1.608	1.583		-1.6	20.0
bis(2-Chloroethyl)ether	1.157	1.112		-3.9	
2-Chlorophenol	1.293	1.248		-3.5	
2-Methylphenol	1.010	0.995		-1.5	
2,2-oxybis(1-Chloropropane)	1.944	1.901		-2.2	
Acetophenone	0.443	0.427		-3.6	
3+4-Methylphenols	1.293	1.264		-2.2	
n-Nitroso-di-n-propylamine	0.886	0.848	0.050	-4.3	
Nitrobenzene-d5	0.367	0.350		-4.6	
Hexachloroethane	0.507	0.478		-5.7	
Nitrobenzene	0.331	0.318		-3.9	
Isophorone	0.613	0.580		-5.4	
2-Nitrophenol	0.177	0.169		-4.5	20.0
2,4-Dimethylphenol	0.312	0.304		-2.6	
bis(2-Chloroethoxy)methane	0.383	0.365		-4.7	
2,4-Dichlorophenol	0.283	0.272		-3.9	20.0
Naphthalene	0.985	0.937		-4.9	
4-Chloroaniline	0.399	0.390		-2.3	
Hexachlorobutadiene	0.192	0.178		-7.3	20.0
Caprolactam	0.080	0.084		5.0	
4-Chloro-3-methylphenol	0.291	0.281		-3.4	20.0
2-Methylnaphthalene	0.620	0.586		-5.5	
Hexachlorocyclopentadiene	0.387	0.374	0.050	-3.4	
2,4,6-Trichlorophenol	0.387	0.380		-1.8	20.0
2-Fluorobiphenyl	1.490	1.386		-7.0	
2,4,5-Trichlorophenol	0.408	0.389		-4.7	
1,1-Biphenyl	1.552	1.477		-4.8	
2-Chloronaphthalene	1.146	1.093		-4.6	
2-Nitroaniline	0.331	0.326		-1.5	
Dimethylphthalate	1.320	1.270		-3.8	
Acenaphthylene	1.936	1.847		-4.6	
2,6-Dinitrotoluene	0.285	0.275		-3.5	
3-Nitroaniline	0.311	0.314		1.0	
Acenaphthene	1.182	1.124		-4.9	20.0
2,4-Dinitrophenol	0.147	0.149	0.050	1.4	
4-Nitrophenol	0.230	0.239	0.050	3.9	

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: BNA_F Calibration Date/Time: 05/23/2025 11:12

Lab File ID: BF142527.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.701	1.625		-4.5	
2,4-Dinitrotoluene	0.372	0.376		1.1	
Diethylphthalate	1.289	1.248		-3.2	
4-Chlorophenyl-phenylether	0.646	0.620		-4.0	
Fluorene	1.314	1.263		-3.9	
4-Nitroaniline	0.282	0.300		6.4	
4,6-Dinitro-2-methylphenol	0.112	0.115		2.7	
n-Nitrosodiphenylamine	0.684	0.633		-7.5	20.0
2,4,6-Tribromophenol	0.222	0.216		-2.7	
4-Bromophenyl-phenylether	0.236	0.214		-9.3	
Hexachlorobenzene	0.262	0.242		-7.6	
Atrazine	0.182	0.183		0.5	
Pentachlorophenol	0.148	0.150		1.4	20.0
Phenanthrene	1.069	1.006		-5.9	
Anthracene	1.091	1.036		-5.0	
Carbazole	0.933	0.921		-1.3	
Di-n-butylphthalate	1.021	1.043		2.2	
Fluoranthene	0.999	0.980		-1.9	20.0
Pyrene	1.866	1.802		-3.4	
Terphenyl-d14	1.464	1.397		-4.6	
Butylbenzylphthalate	0.516	0.553		7.2	
3,3-Dichlorobenzidine	0.405	0.413		2.0	
Benzo(a)anthracene	1.336	1.324		-0.9	
Chrysene	1.200	1.134		-5.5	
Bis(2-ethylhexyl)phthalate	0.660	0.677		2.6	
Di-n-octyl phthalate	1.290	1.118		-13.3	20.0
Benzo(b)fluoranthene	1.184	1.171		-1.1	
Benzo(k)fluoranthene	1.109	0.983		-11.4	
Benzo(a)pyrene	1.116	1.065		-4.6	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.373		-8.5	
Dibenzo(a,h)anthracene	1.218	1.112		-8.7	
Benzo(g,h,i)perylene	1.218	1.127		-7.5	
1,2,4,5-Tetrachlorobenzene	0.574	0.550		-4.2	
1,4-Dioxane	0.475	0.471		-0.8	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.338		-0.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Time: May 23 17:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

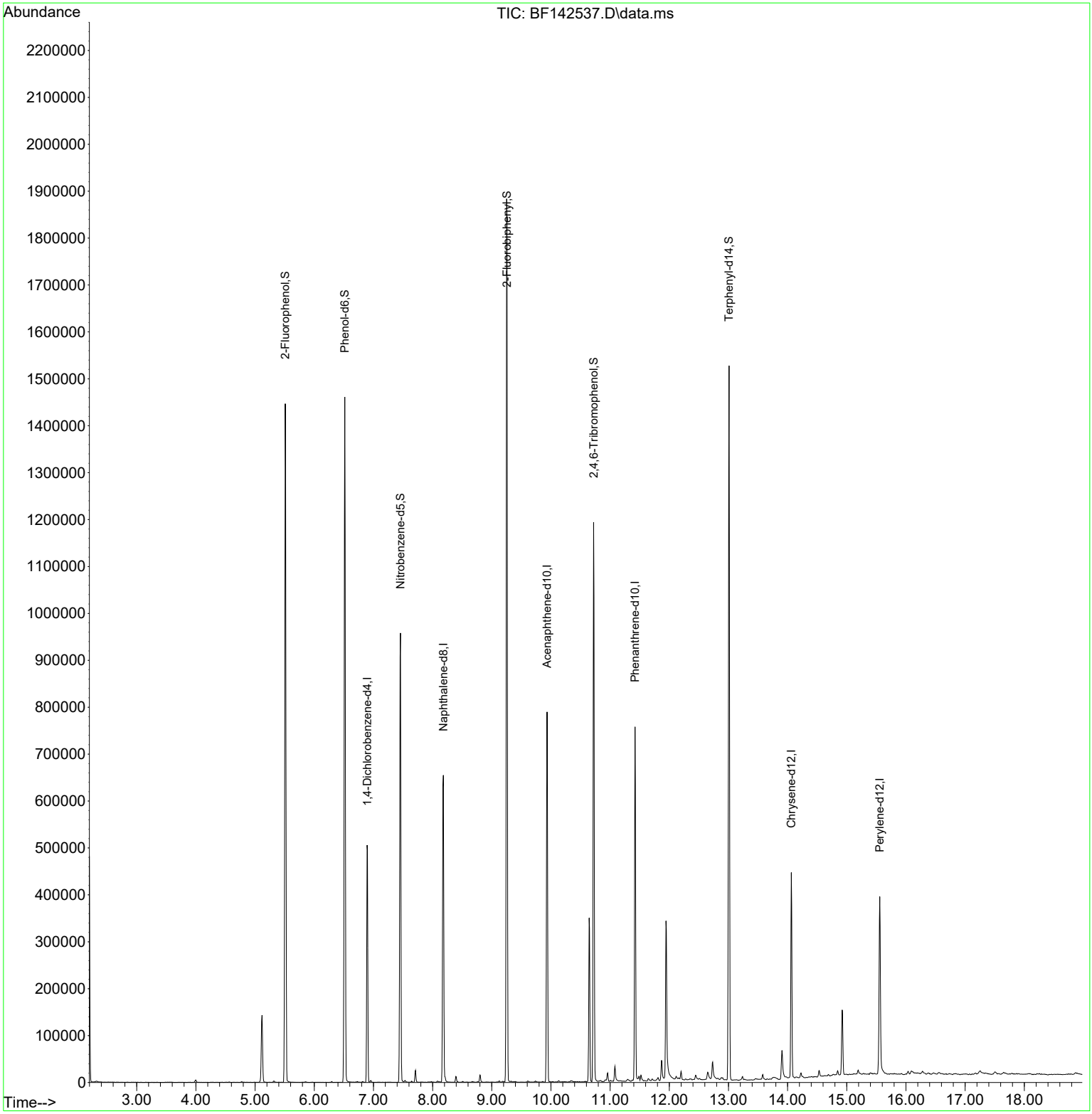
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	114387	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	436187	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	233620	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	387454	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	212215	20.000	ng	-0.01
86) Perylene-d12	15.557	264	222870	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	557183	82.065	ng	0.00
7) Phenol-d6	6.516	99	687727	84.147	ng	-0.02
23) Nitrobenzene-d5	7.457	82	413511	51.694	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	211280	81.484	ng	-0.02
45) 2-Fluorobiphenyl	9.257	172	872556	50.118	ng	-0.01
79) Terphenyl-d14	13.010	244	738092	47.529	ng	0.00
Target Compounds						Qvalue

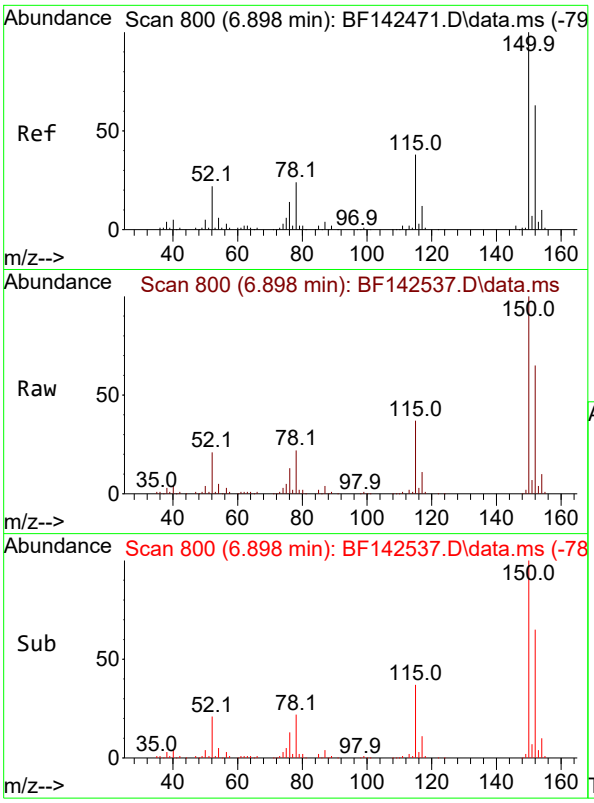
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Time: May 23 17:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



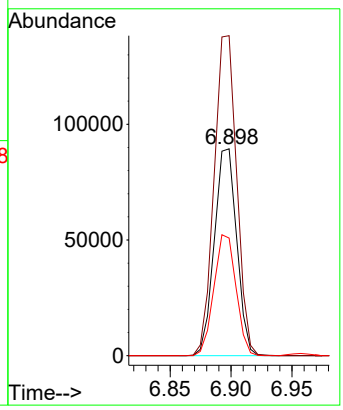


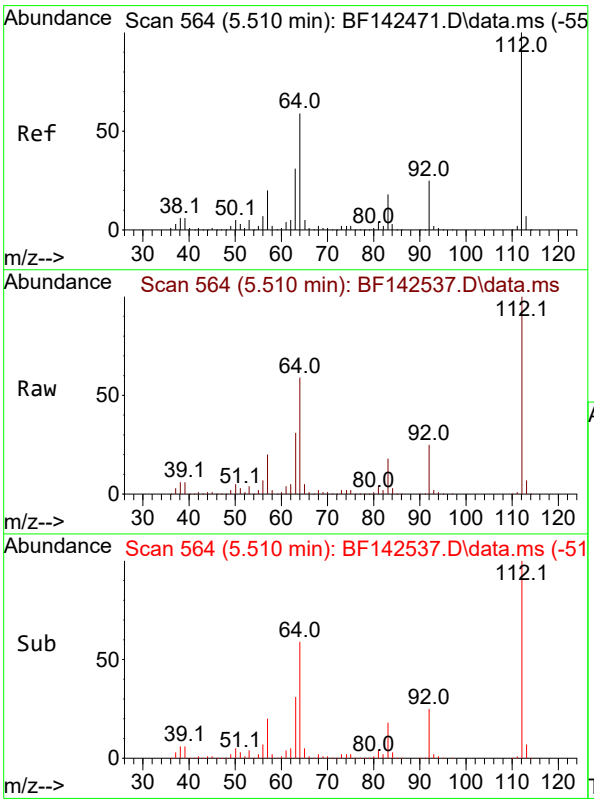
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:152 Resp: 114387

Ion	Ratio	Lower	Upper
152	100		
150	154.7	128.2	192.4
115	56.9	48.3	72.5

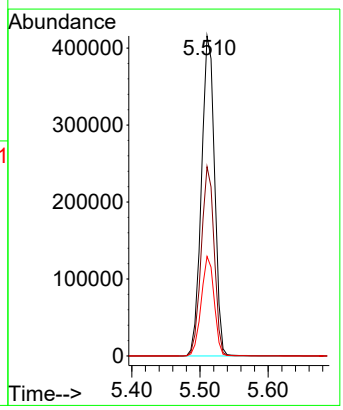


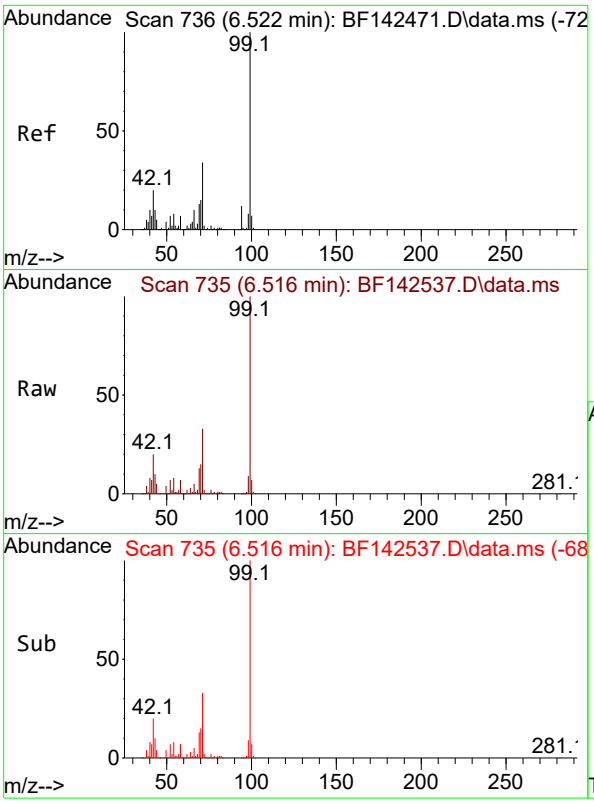


#5
2-Fluorophenol
Concen: 82.065 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:112 Resp: 557183

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	31.1	24.9	37.3



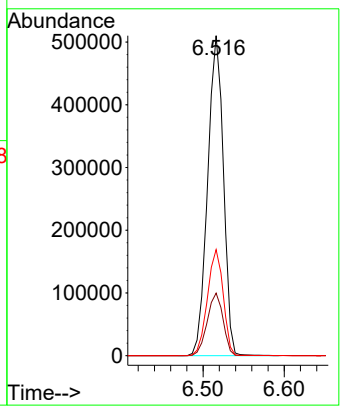


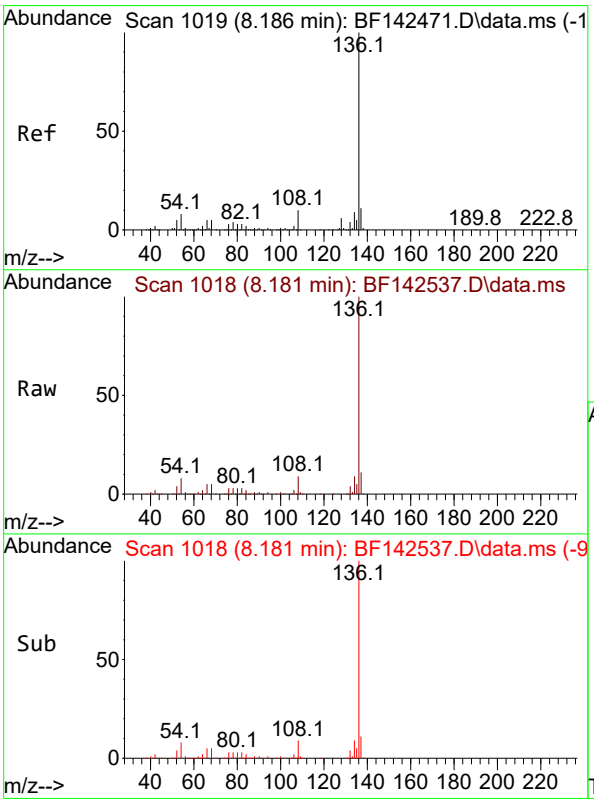
#7
Phenol-d6
Concen: 84.147 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion: 99 Resp: 687727

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.2	24.2
71	33.1	27.3	40.9

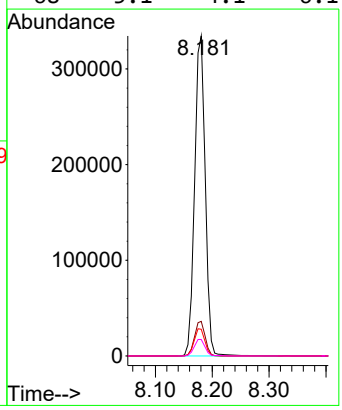


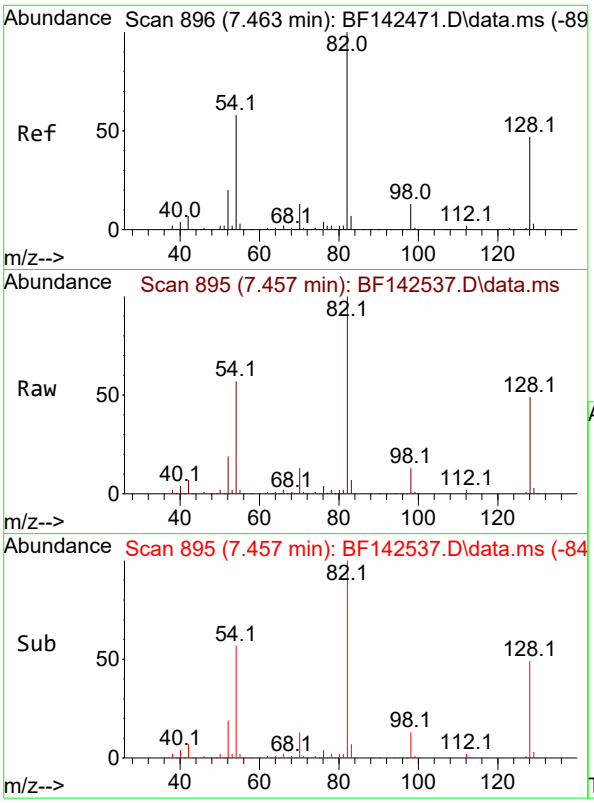


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:136 Resp: 436187

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.4	6.6	10.0
68	5.1	4.1	6.1



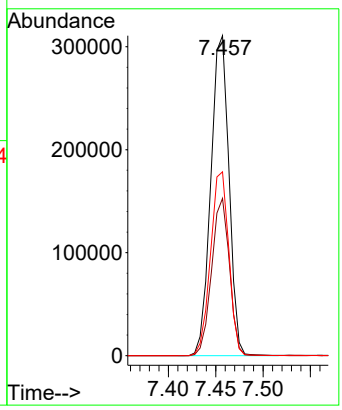


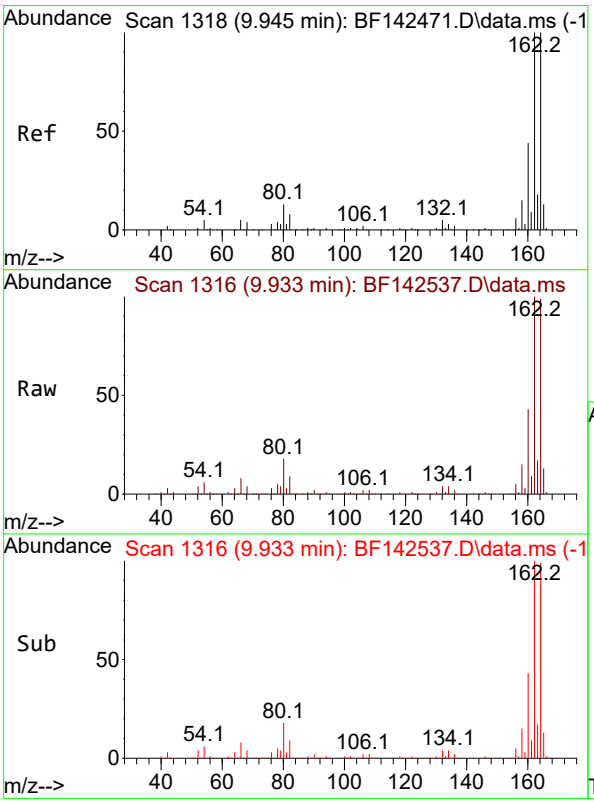
#23
Nitrobenzene-d5
Concen: 51.694 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion: 82 Resp: 413511

Ion	Ratio	Lower	Upper
82	100		
128	49.2	37.4	56.2
54	57.5	46.6	70.0

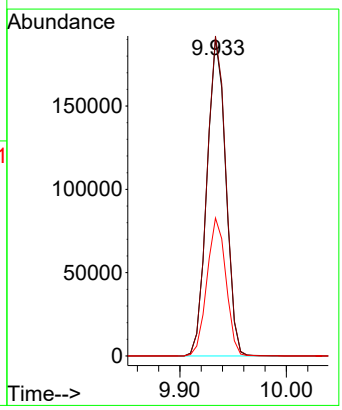


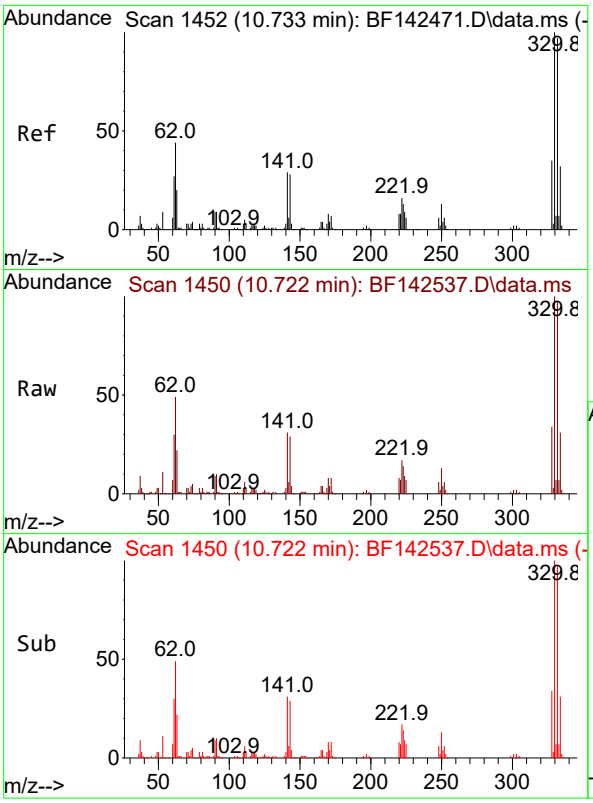


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:164 Resp: 233620

Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.2	120.4
160	43.5	35.6	53.4



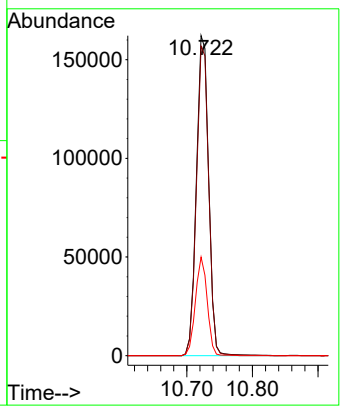


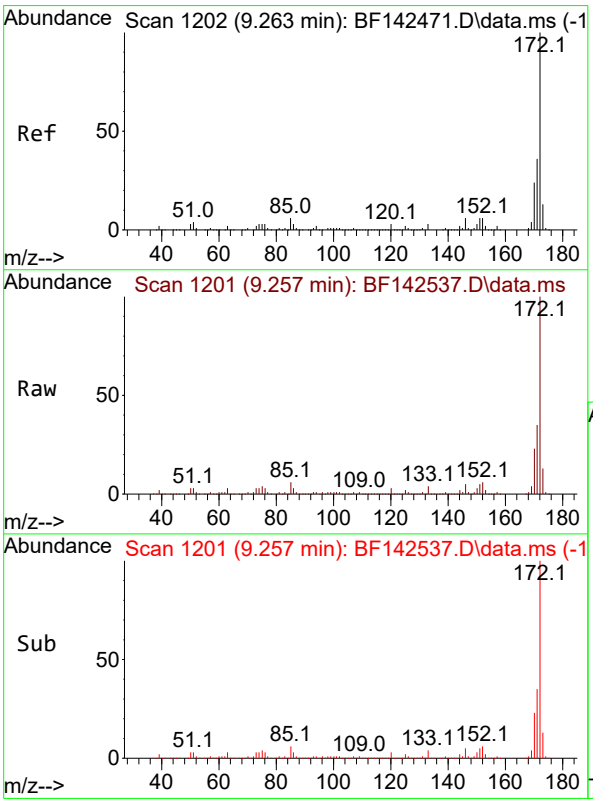
#42
2,4,6-Tribromophenol
Concen: 81.484 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:330 Resp: 211280

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.6	116.4
141	29.6	24.6	36.8

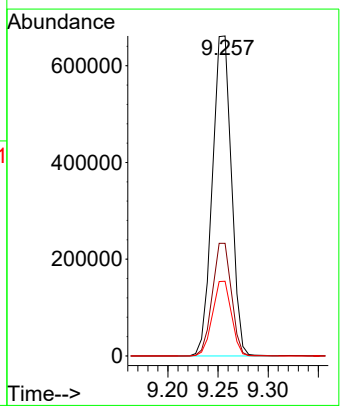


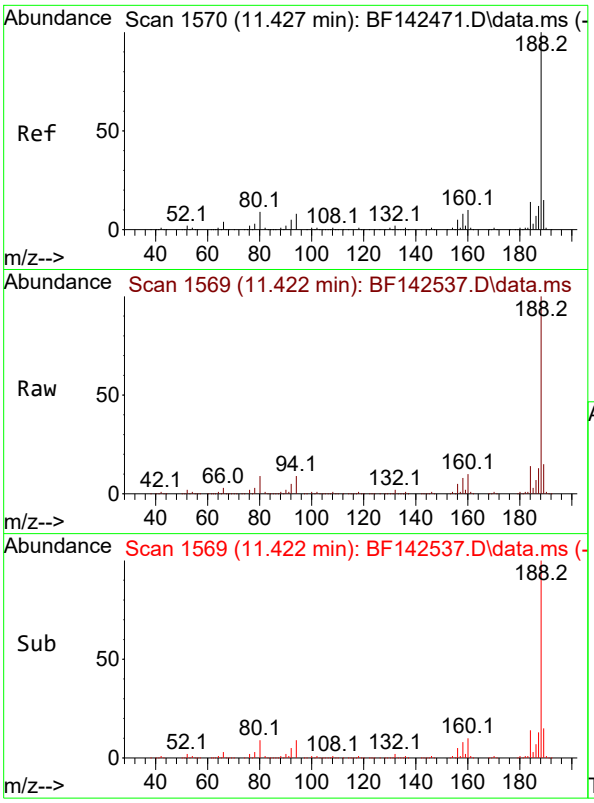


#45
2-Fluorobiphenyl
Concen: 50.118 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:172 Resp: 872556

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	23.3	18.9	28.3



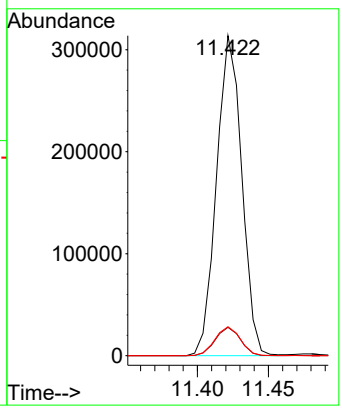


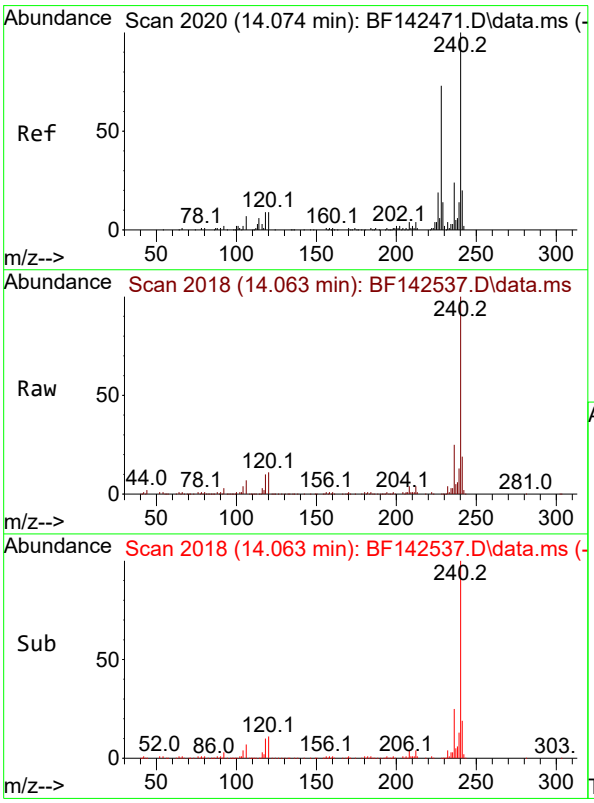
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:188 Resp: 387454

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.1	7.4	11.0

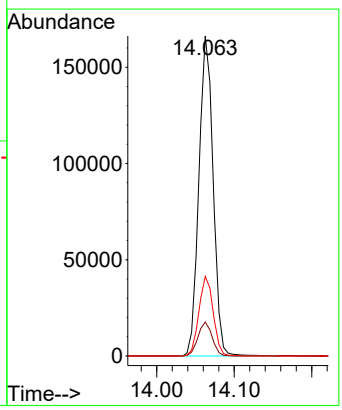


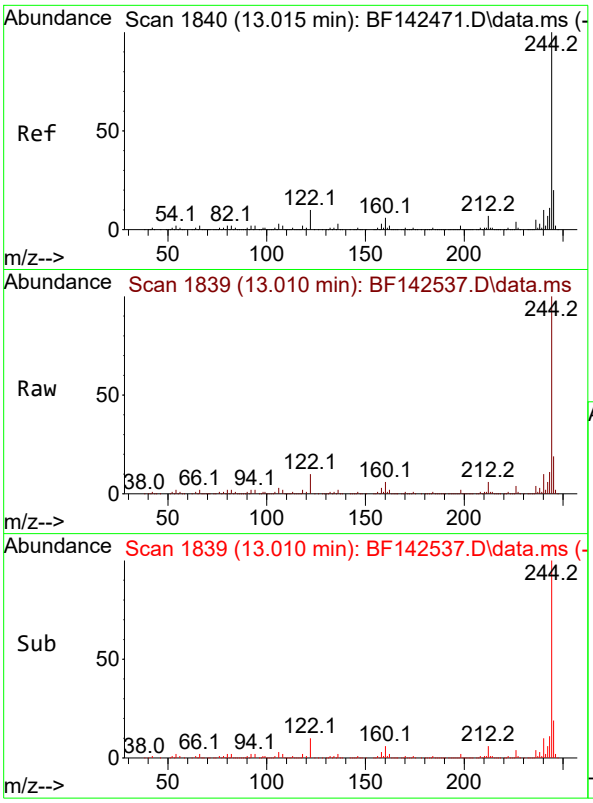


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:240 Resp: 212215

Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.5	11.3
236	24.9	19.6	29.4



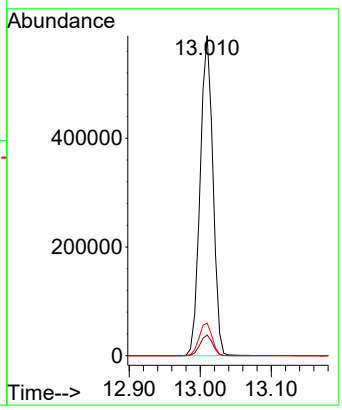


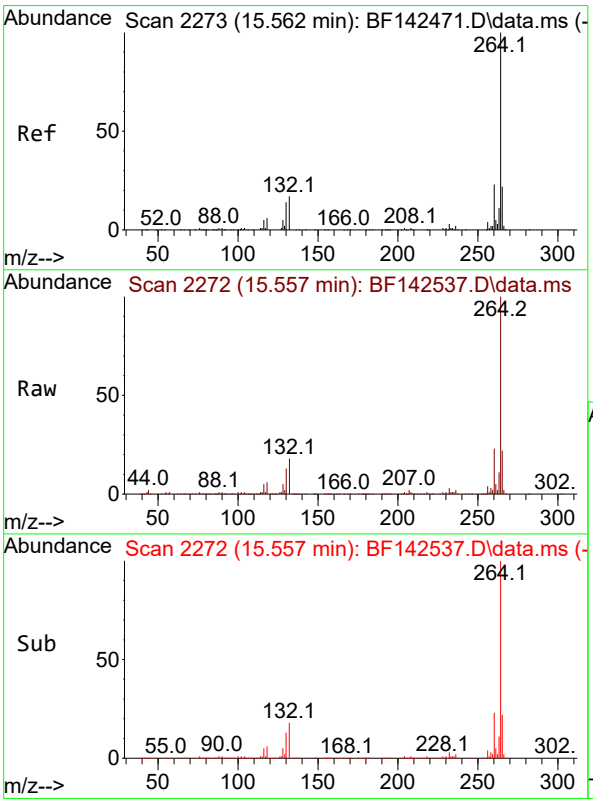
#79
Terphenyl-d14
Concen: 47.529 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:244 Resp: 738092

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.2	8.2	12.2

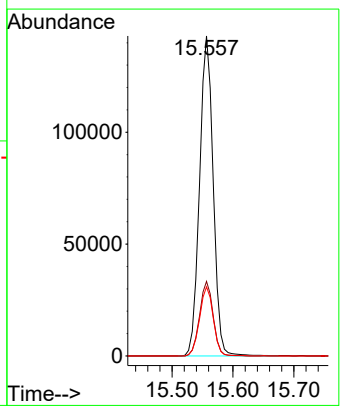




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:264 Resp: 222870

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.6	17.7	26.5



Sample Results: **BF142537.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142537.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	488	497	507	rBV	143192	213128	8.69%	1.228%
2	5.510	558	564	569	rBV	1446528	1915190	78.09%	11.036%
3	6.516	728	735	740	rBV	1460947	1978380	80.66%	11.400%
4	6.892	794	799	805	rBV	505448	643300	26.23%	3.707%
5	7.457	888	895	900	rBV	957563	1270657	51.81%	7.322%
6	7.710	933	938	946	rVB	25095	31754	1.29%	0.183%
7	8.181	1012	1018	1035	rVB	654022	862248	35.16%	4.969%
8	9.251	1194	1200	1206	rBV	1882534	2452664	100.00%	14.133%
9	9.933	1311	1316	1321	rBV	789156	967697	39.45%	5.576%
10	10.645	1432	1437	1445	rVB	348678	432081	17.62%	2.490%
11	10.722	1445	1450	1462	rBV	1192125	1514393	61.74%	8.726%
12	11.080	1507	1511	1522	rBV	31571	47445	1.93%	0.273%
13	11.422	1564	1569	1574	rBV	752976	927984	37.84%	5.347%
14	11.869	1640	1645	1652	rBV	43041	66957	2.73%	0.386%
15	11.945	1653	1658	1681	rVB	338176	533569	21.75%	3.075%
16	12.198	1697	1701	1709	rVB2	18033	24639	1.00%	0.142%
17	12.651	1773	1778	1786	rBV4	14925	30400	1.24%	0.175%
18	12.733	1787	1792	1803	rVB	35899	62720	2.56%	0.361%
19	13.010	1833	1839	1844	rBV	1522341	1914350	78.05%	11.031%
20	13.904	1986	1991	2000	rBV	61466	109949	4.48%	0.634%
21	14.063	2013	2018	2024	rBV	436408	549583	22.41%	3.167%
22	14.921	2159	2164	2172	rBV	137872	189139	7.71%	1.090%
23	15.557	2265	2272	2287	rBV	377783	615981	25.11%	3.549%

Sum of corrected areas: 17354208

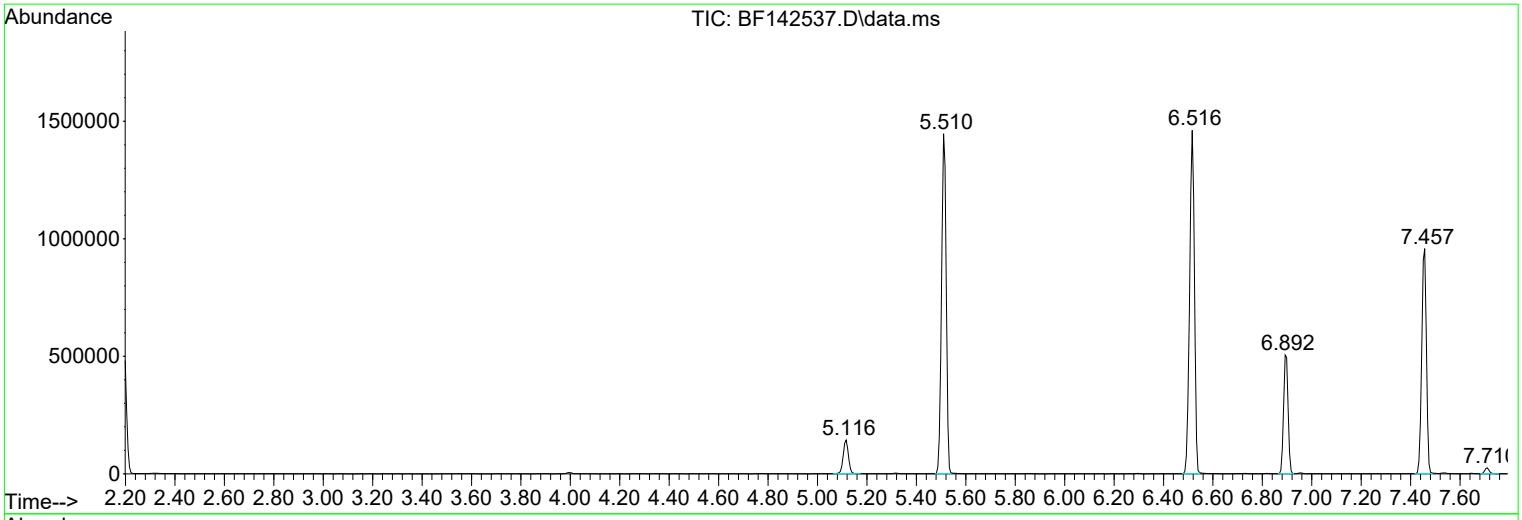
Sample Results: **BF142537.D**

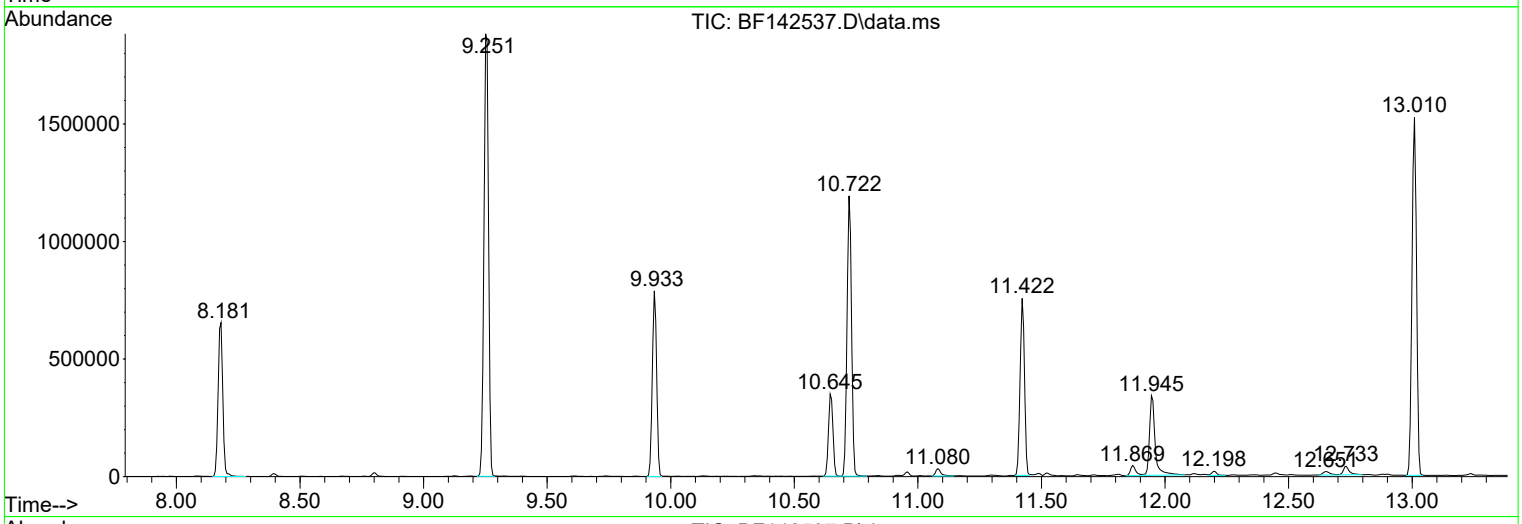
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

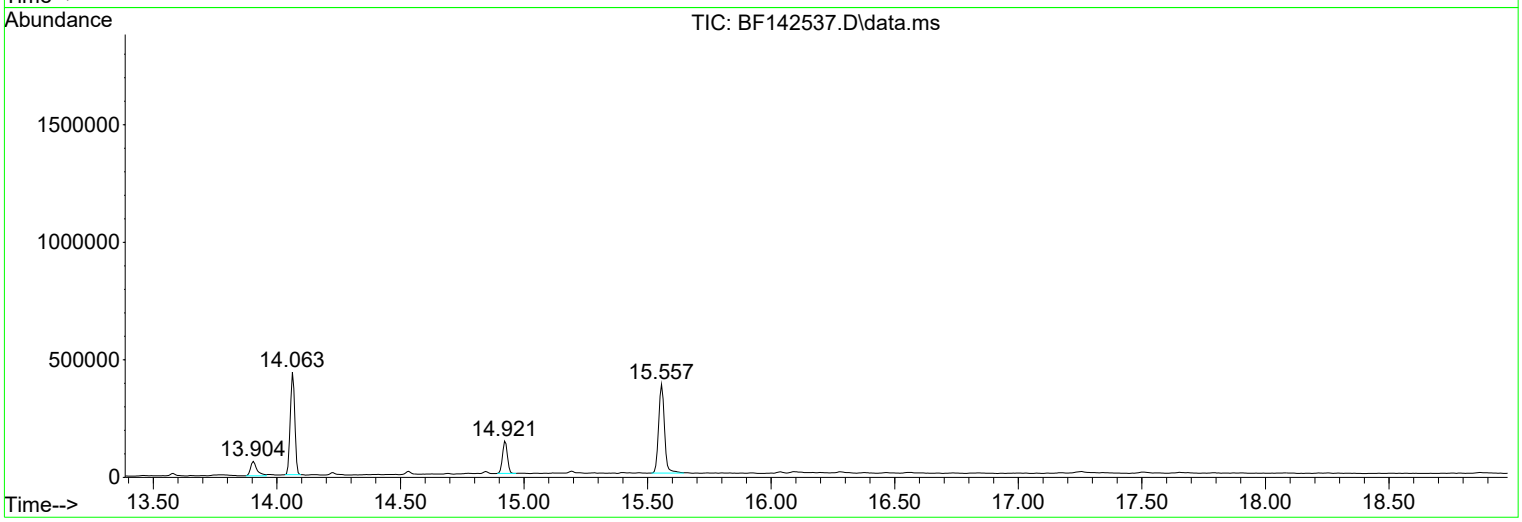
Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

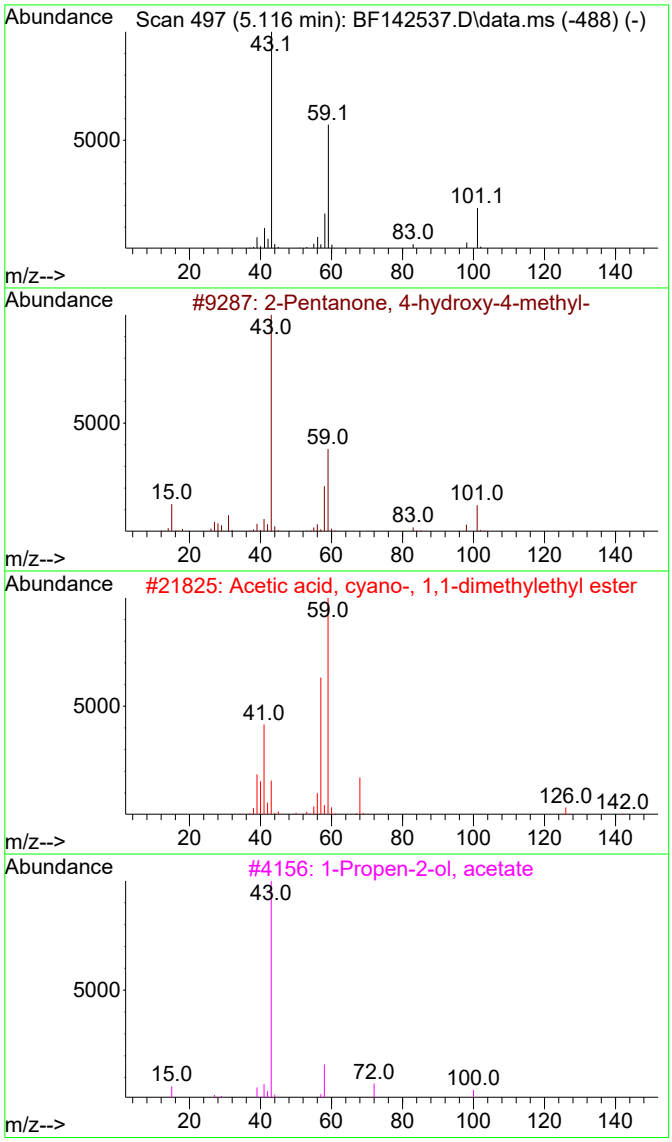
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

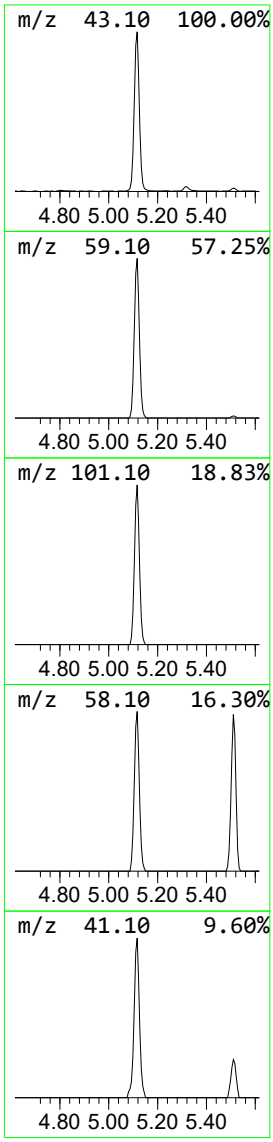
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.63 ng	213128	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	9
5	Propanoic acid, 2-nitro-, methyl...	133	C4H7NO4	006118-50-9	9





Sample Results: **BF142537.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

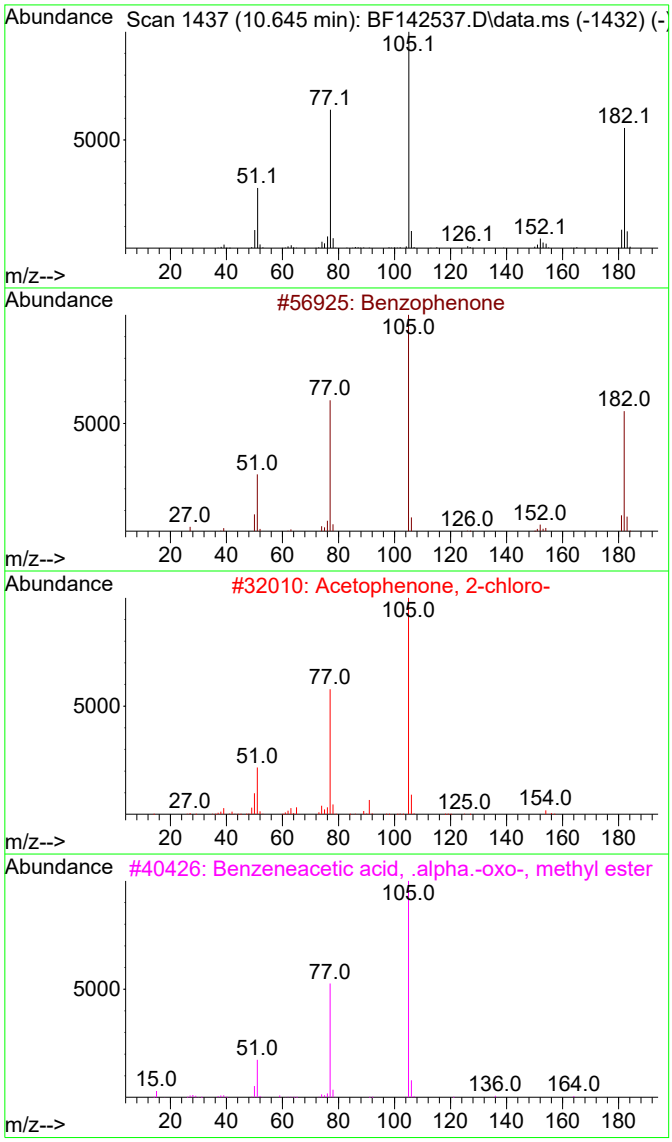
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

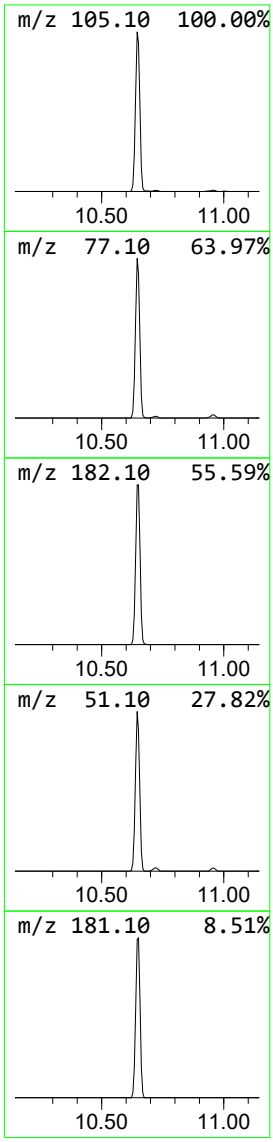
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	8.93 ng	432081	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
4	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

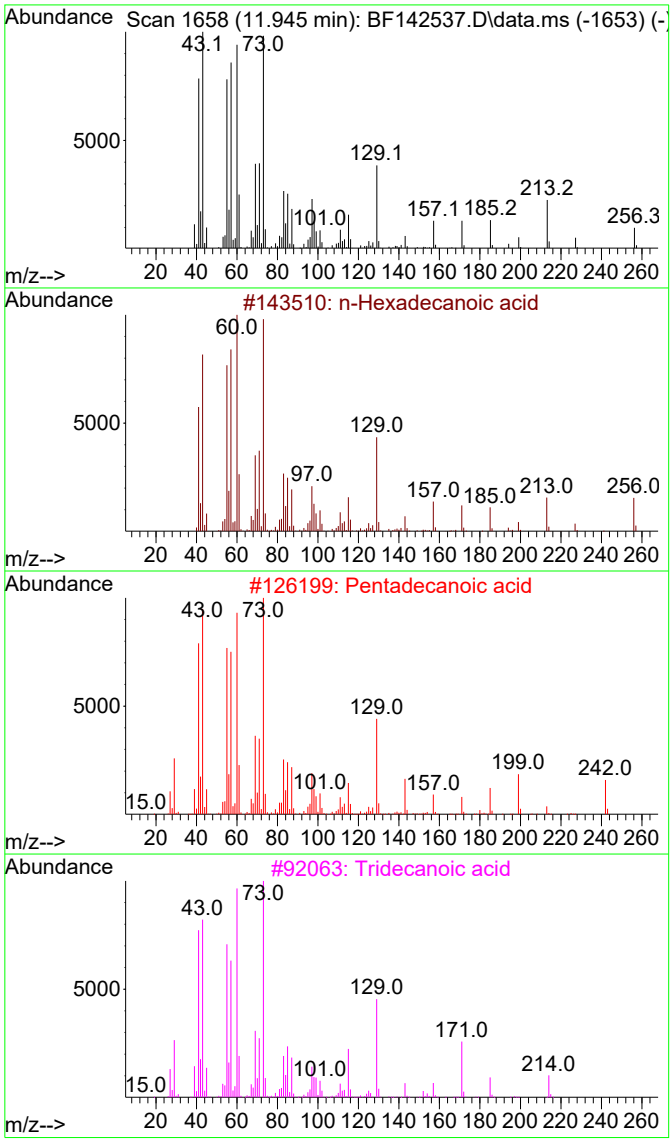
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

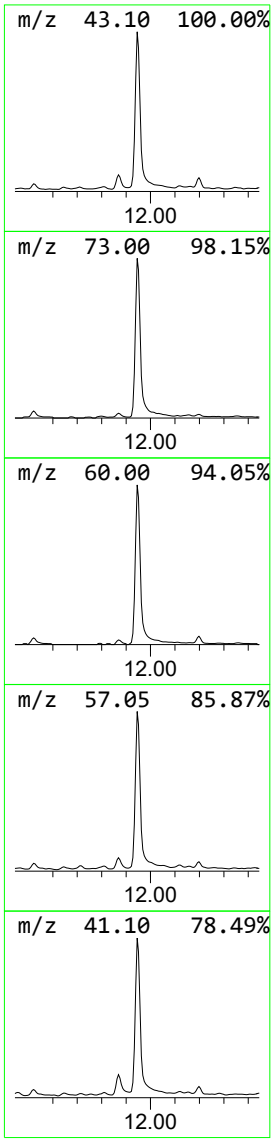
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	11.50 ng	533569	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

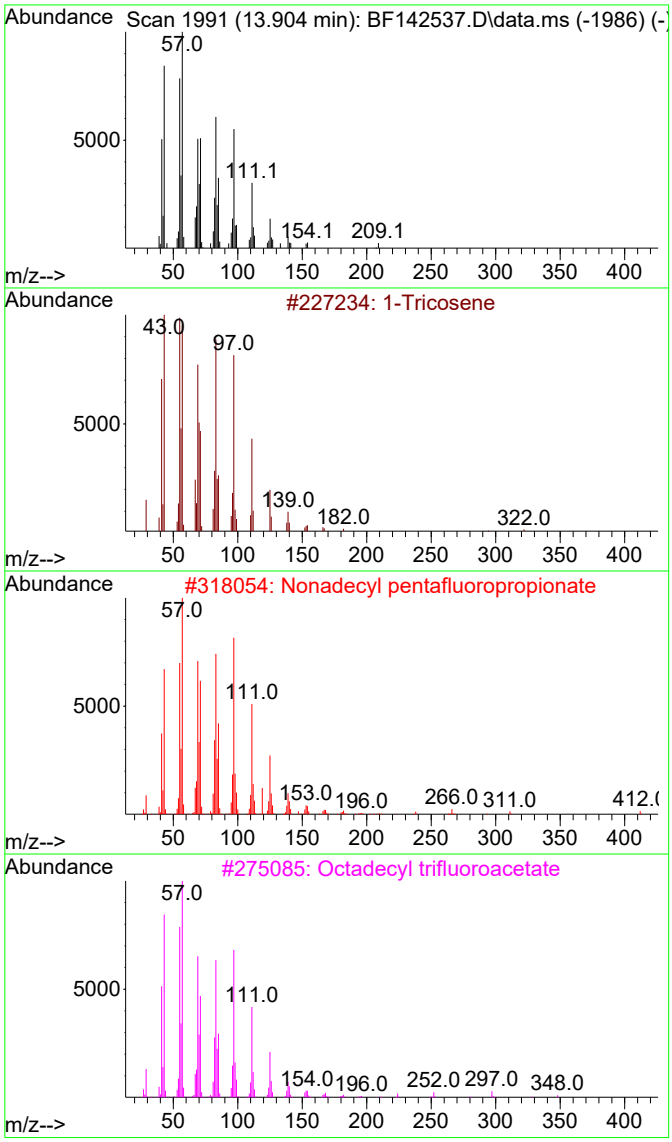
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

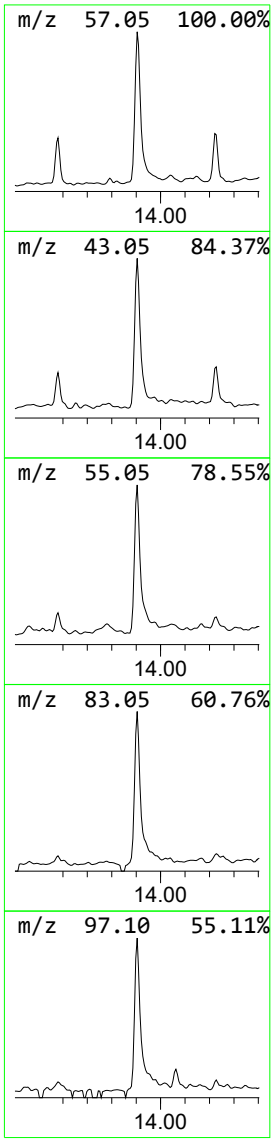
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 1-Tricosene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.00 ng	109949	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	93
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
3	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
5	Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

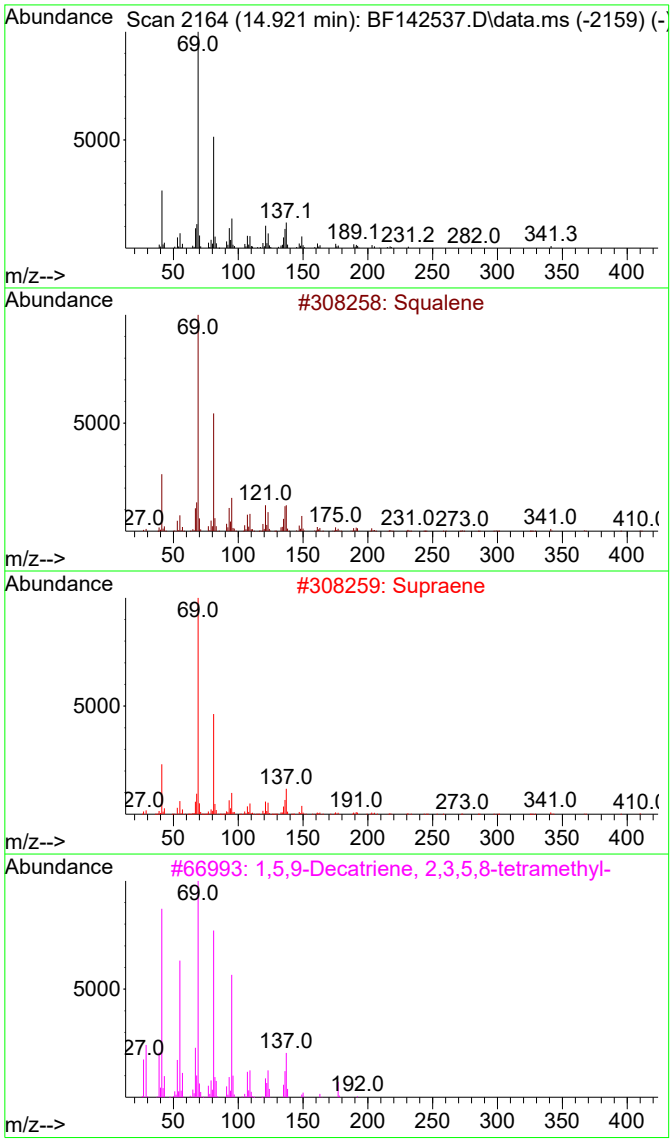
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

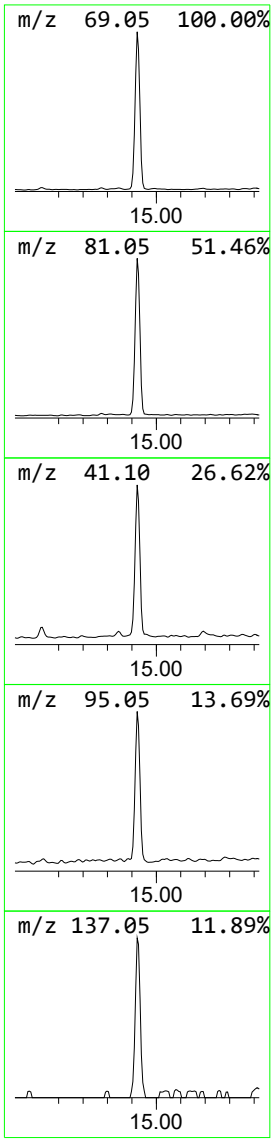
****

Peak Number 5 Squalene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.921	6.14 ng	189139	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	000111-02-4	91
2	Supraene	410	C30H50	007683-64-9	91
3	1,5,9-Decatriene, 2,3,5,8-tetram...	192	C14H24	230646-72-7	72
4	Farnesol isomer a	222	C15H26O	1000108-92-4	64
5	1,5-Heptadiene, 3,3,6-trimethyl-	138	C10H18	035387-63-4	52





Sample Results: **BF142537.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.6	ng	213128	1	6.898	643300	20.0
Benzophenone	10.645	8.9	ng	432081	3	9.933	967697	20.0
n-Hexadecanoic ...	11.945	11.5	ng	533569	4	11.422	927984	20.0
1-Tricosene	13.904	4.0	ng	109949	5	14.063	549583	20.0
Squalene	14.921	6.1	ng	189139	6	15.557	615981	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Time: May 23 16:39:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

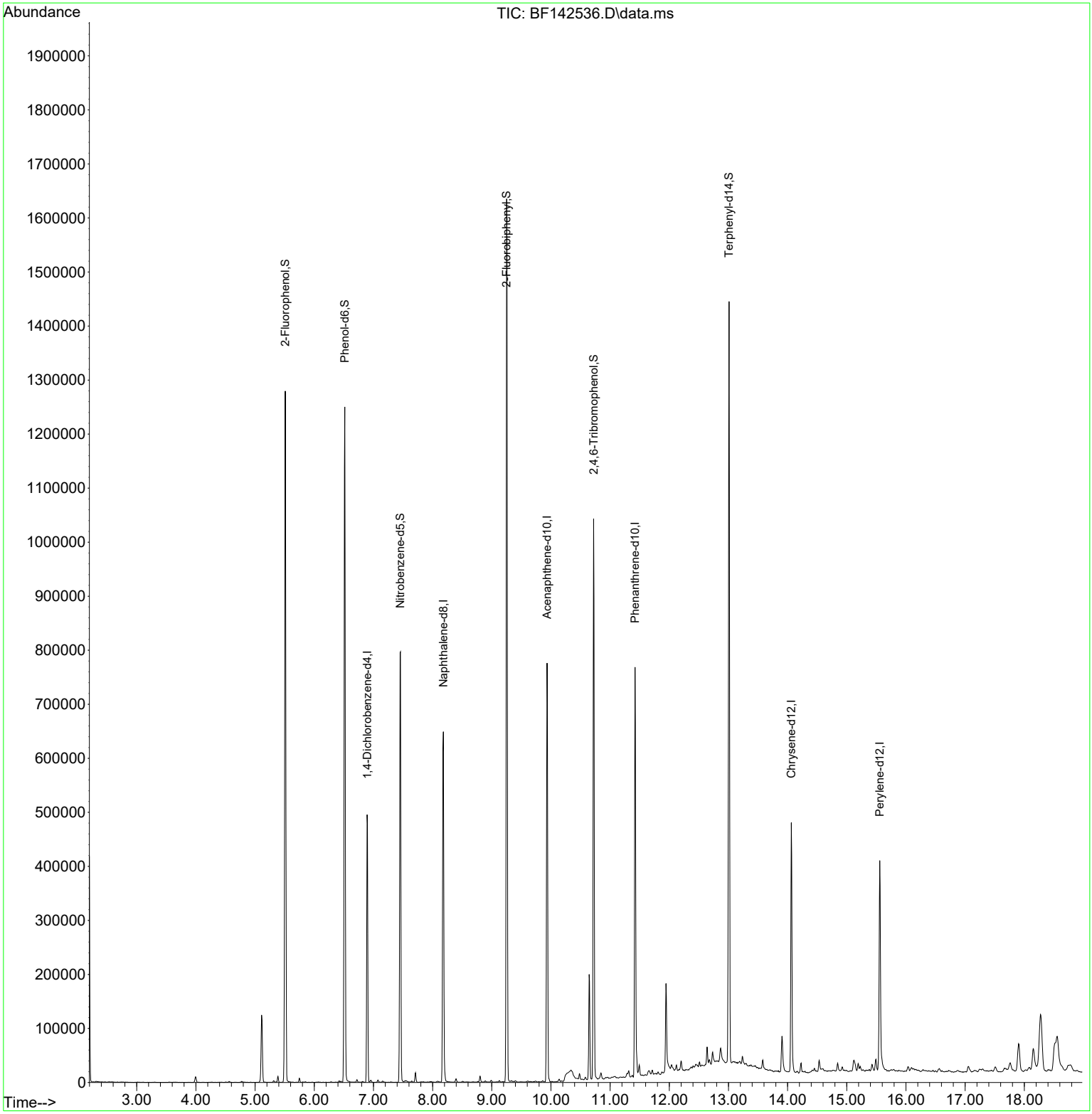
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	111473	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	430329	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	234472	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	390498	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	216372	20.000	ng	#-0.01
86) Perylene-d12	15.557	264	220082	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	476798	72.061	ng	0.00
7) Phenol-d6	6.516	99	586338	73.616	ng	-0.02
23) Nitrobenzene-d5	7.451	82	352889	44.716	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	180939	69.529	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	752874	43.086	ng	-0.02
79) Terphenyl-d14	13.010	244	677960	42.818	ng	0.00
Target Compounds						Qvalue

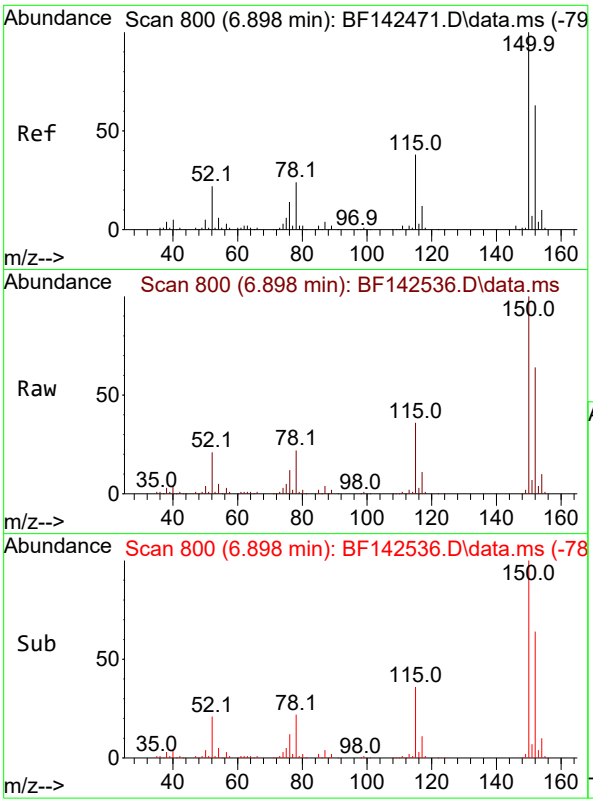
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Time: May 23 16:39:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



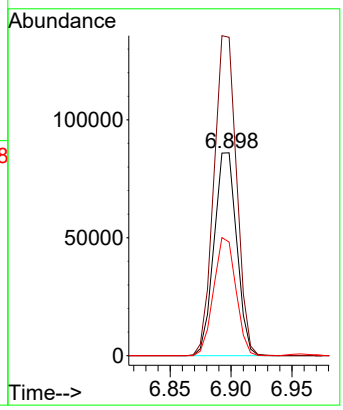


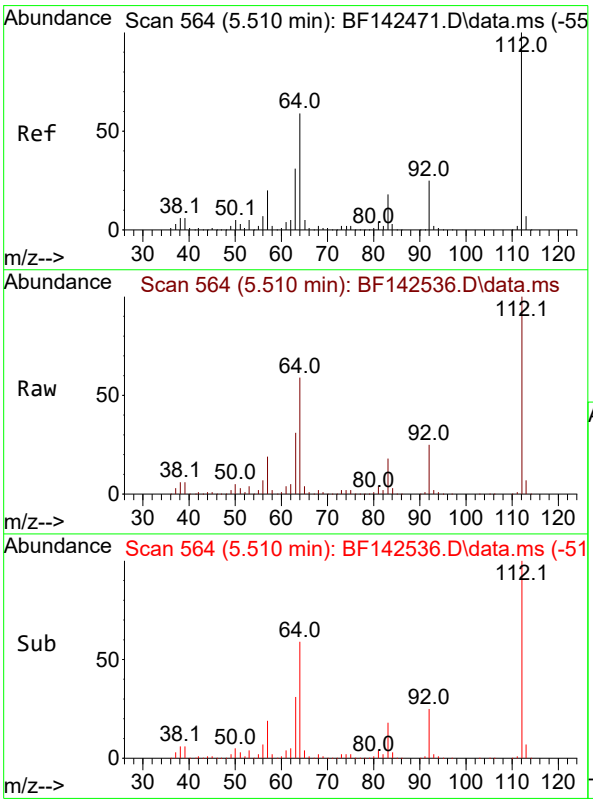
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:152 Resp: 111473

Ion	Ratio	Lower	Upper
152	100		
150	157.0	128.2	192.4
115	56.0	48.3	72.5

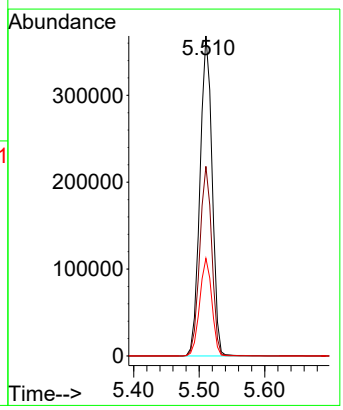


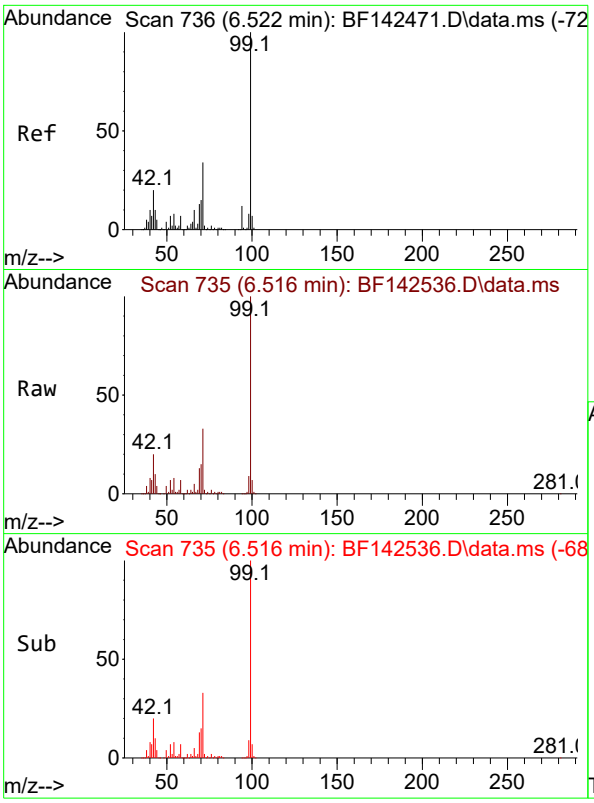


#5
2-Fluorophenol
Concen: 72.061 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:112 Resp: 476798

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	30.5	24.9	37.3



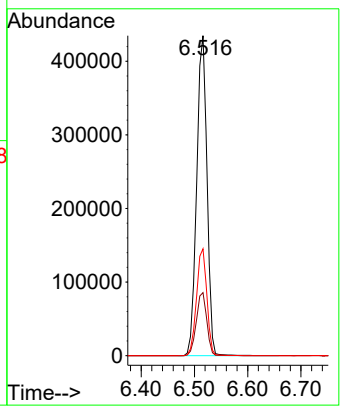


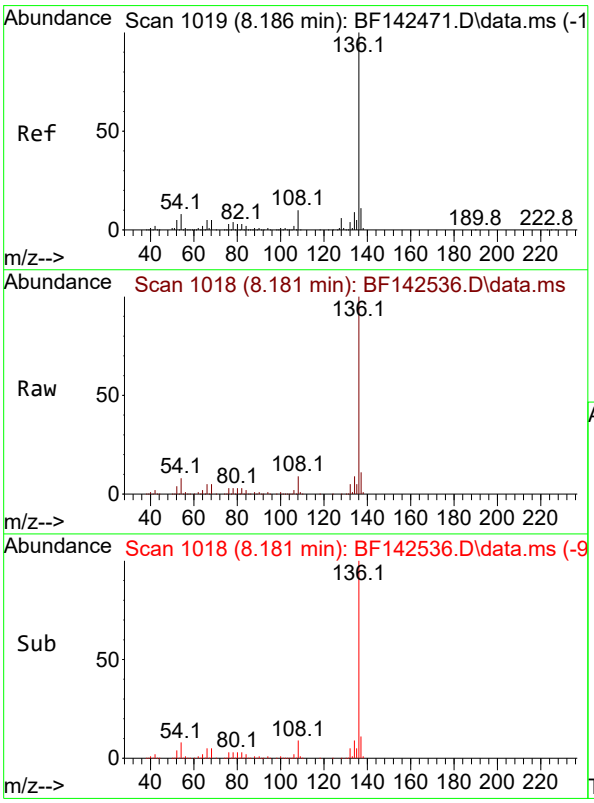
#7
Phenol-d6
Concen: 73.616 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion: 99 Resp: 586338

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.2	24.2
71	33.4	27.3	40.9

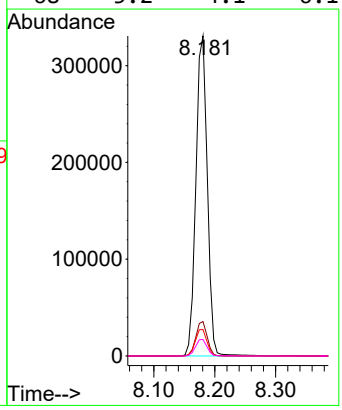


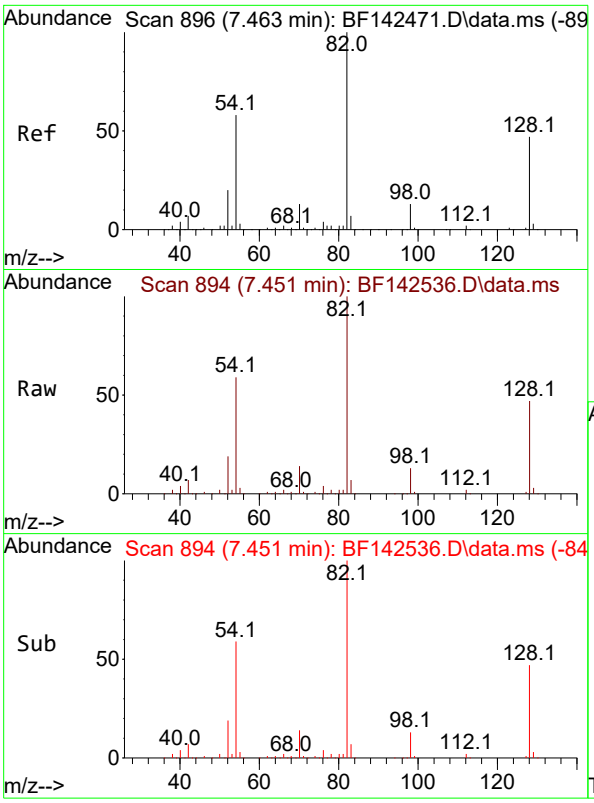


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:136 Resp: 430329

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.2	6.6	10.0
68	5.2	4.1	6.1



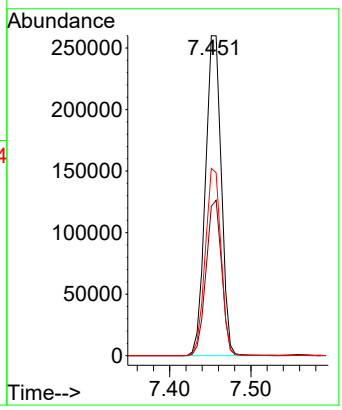


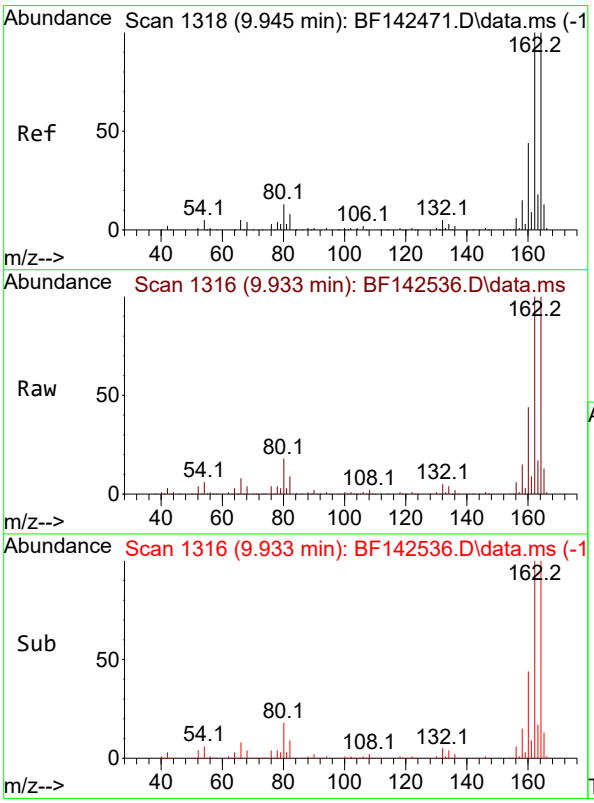
#23
Nitrobenzene-d5
Concen: 44.716 ng
RT: 7.451 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion: 82 Resp: 352889

Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.4	56.2
54	58.6	46.6	70.0

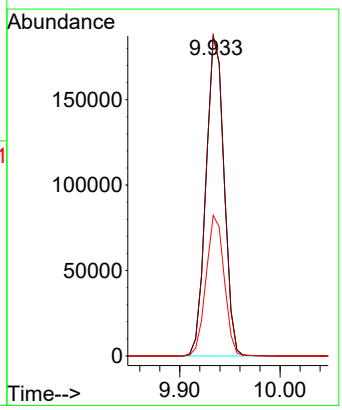


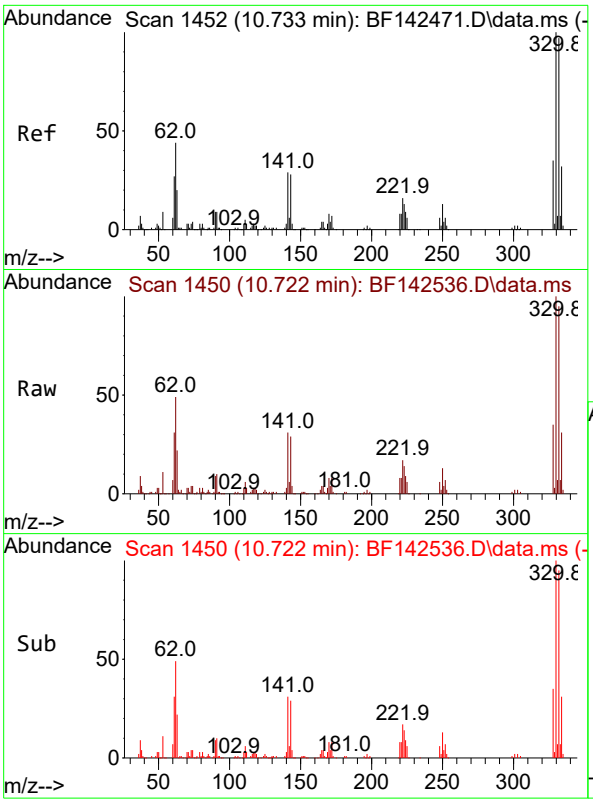


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:164 Resp: 234472

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.2	120.4
160	43.9	35.6	53.4



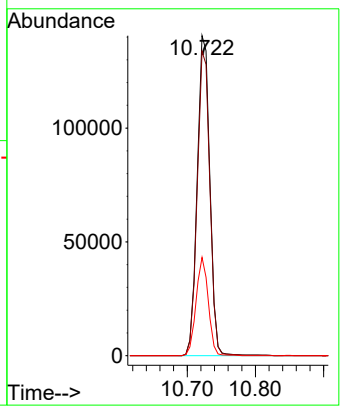


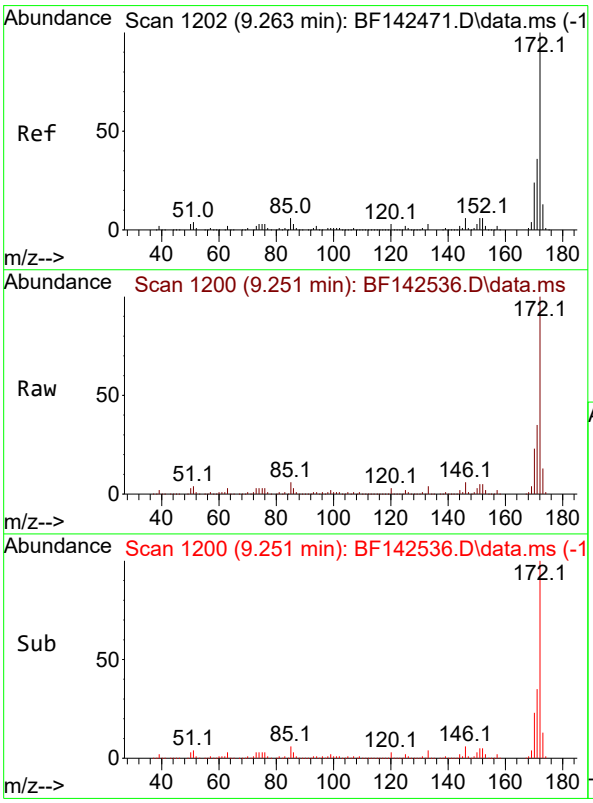
#42
2,4,6-Tribromophenol
Concen: 69.529 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:330 Resp: 180939

Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.6	116.4
141	29.7	24.6	36.8

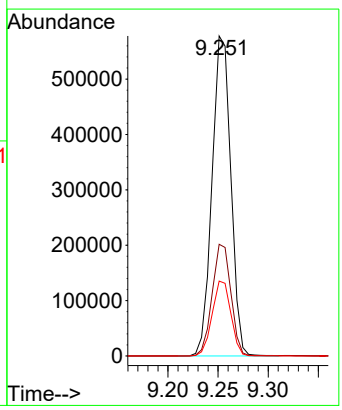


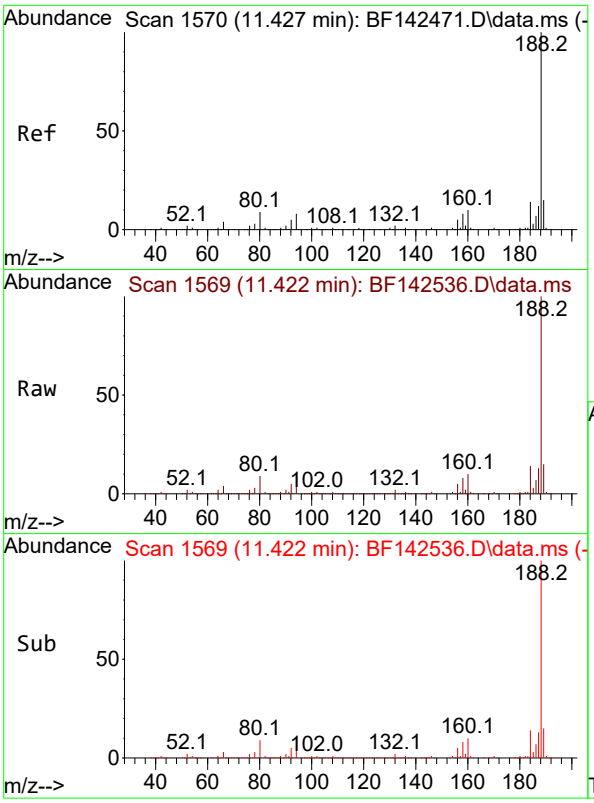


#45
2-Fluorobiphenyl
Concen: 43.086 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:172 Resp: 752874

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.6	42.8
170	23.4	18.9	28.3



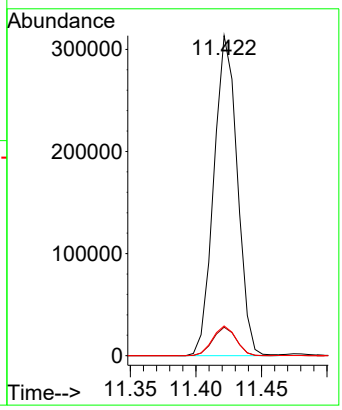


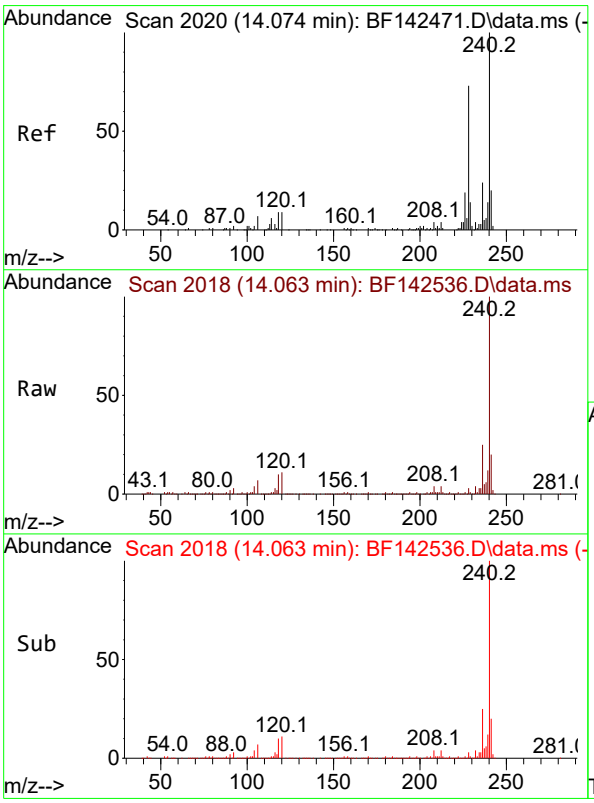
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:188 Resp: 390498

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.3	7.4	11.0

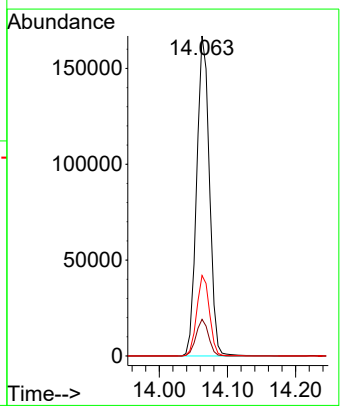


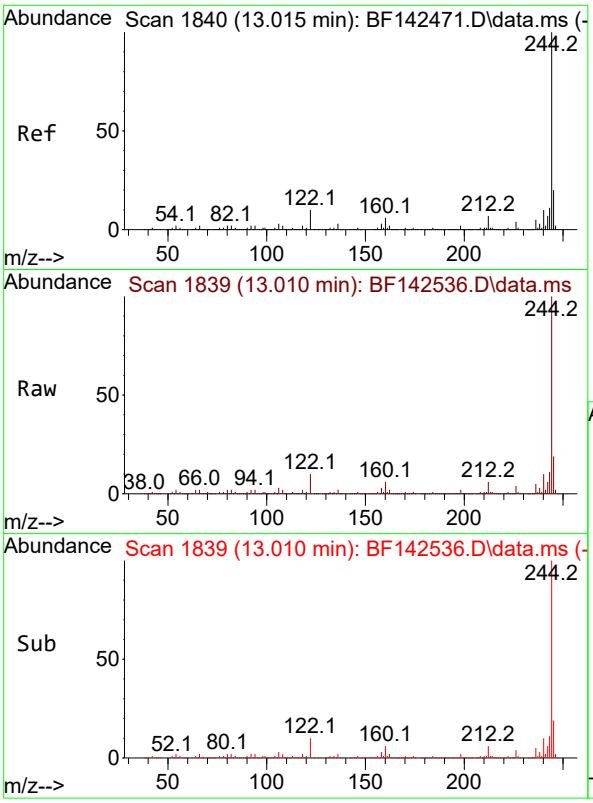


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:240 Resp: 216372

Ion	Ratio	Lower	Upper
240	100		
120	11.5	7.5	11.3#
236	25.1	19.6	29.4



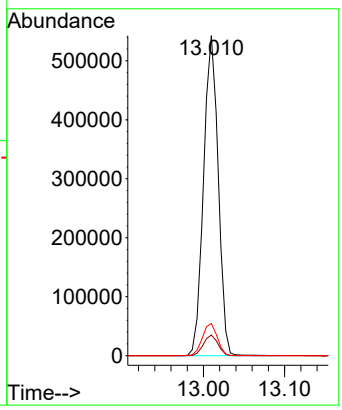


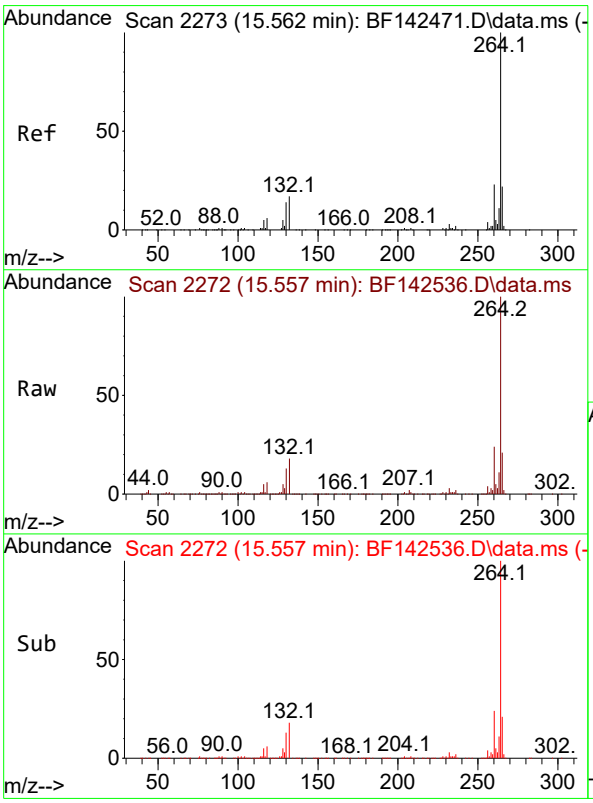
#79
Terphenyl-d14
Concen: 42.818 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:244 Resp: 677960

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.1	8.2	12.2

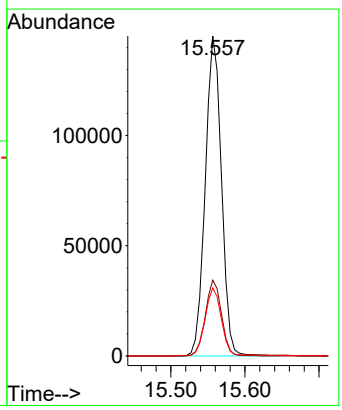




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:264 Resp: 220082

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	28.0
265	21.3	17.7	26.5



Sample Results: **BF142536.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142536.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.110	485	496	507	rBV	124630	185449	8.83%	1.114%
2	5.510	556	564	569	rBV	1279161	1660588	79.06%	9.975%
3	6.516	728	735	740	rBV	1249880	1692376	80.57%	10.166%
4	6.892	794	799	805	rBV	495263	631154	30.05%	3.791%
5	7.457	888	895	900	rBV	796499	1080004	51.42%	6.488%
6	7.710	933	938	945	rVB	17347	22522	1.07%	0.135%
7	8.181	1012	1018	1027	rBV	648336	860906	40.99%	5.172%
8	9.251	1195	1200	1205	rBV	1634066	2100407	100.00%	12.618%
9	9.933	1311	1316	1321	rBV	774805	967431	46.06%	5.812%
10	10.339	1362	1385	1401	rBV4	20919	172159	8.20%	1.034%
11	10.645	1432	1437	1445	rBV	194860	247997	11.81%	1.490%
12	10.722	1445	1450	1462	rVV	1037363	1309741	62.36%	7.868%
13	11.422	1564	1569	1577	rBV	758771	998712	47.55%	5.999%
14	11.492	1577	1581	1587	rVB3	19359	29868	1.42%	0.179%
15	11.945	1653	1658	1670	rBV	163194	251425	11.97%	1.510%
16	12.039	1671	1674	1682	rVB4	10669	21638	1.03%	0.130%
17	12.198	1698	1701	1708	rVB4	17187	24713	1.18%	0.148%
18	12.639	1772	1776	1780	rBV	32732	42776	2.04%	0.257%
19	12.733	1788	1792	1799	rBV5	21944	41275	1.97%	0.248%
20	12.869	1811	1815	1829	rVB2	26939	61200	2.91%	0.368%
21	13.010	1833	1839	1844	rBV	1407421	1767652	84.16%	10.619%
22	13.580	1932	1936	1945	rVB3	17617	28476	1.36%	0.171%
23	13.904	1986	1991	2008	rVB	65925	116644	5.55%	0.701%
24	14.063	2013	2018	2031	rVB	462417	630101	30.00%	3.785%
25	14.533	2094	2098	2103	rBV2	20190	32734	1.56%	0.197%
26	15.121	2193	2198	2206	rVB	19174	44719	2.13%	0.269%
27	15.492	2256	2261	2266	rVV	20380	31994	1.52%	0.192%
28	15.557	2266	2272	2288	rVV	387523	629020	29.95%	3.779%
29	17.056	2523	2527	2536	rVB3	10342	23687	1.13%	0.142%
30	17.903	2664	2671	2685	rVB2	51312	132332	6.30%	0.795%
31	18.151	2707	2713	2722	rBV	37093	101247	4.82%	0.608%
32	18.274	2725	2734	2749	rVB4	104754	363772	17.32%	2.185%
33	18.556	2767	2782	2805	rVB7	62856	341990	16.28%	2.054%

Sum of corrected areas: 16646709

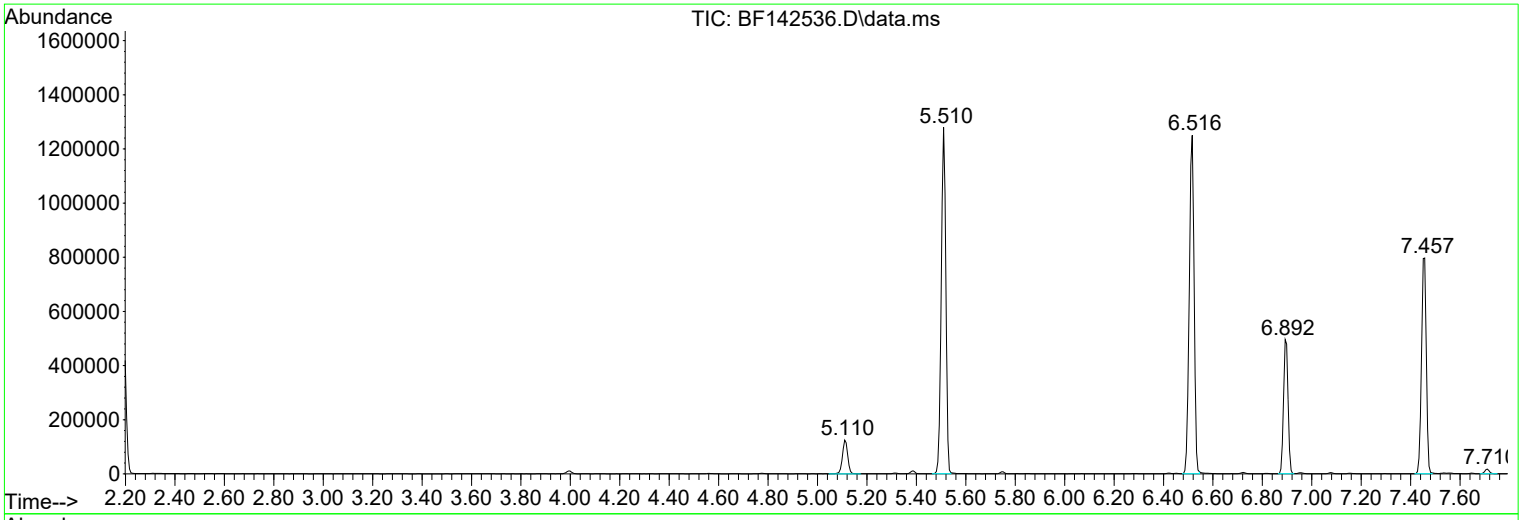
Sample Results: **BF142536.D**

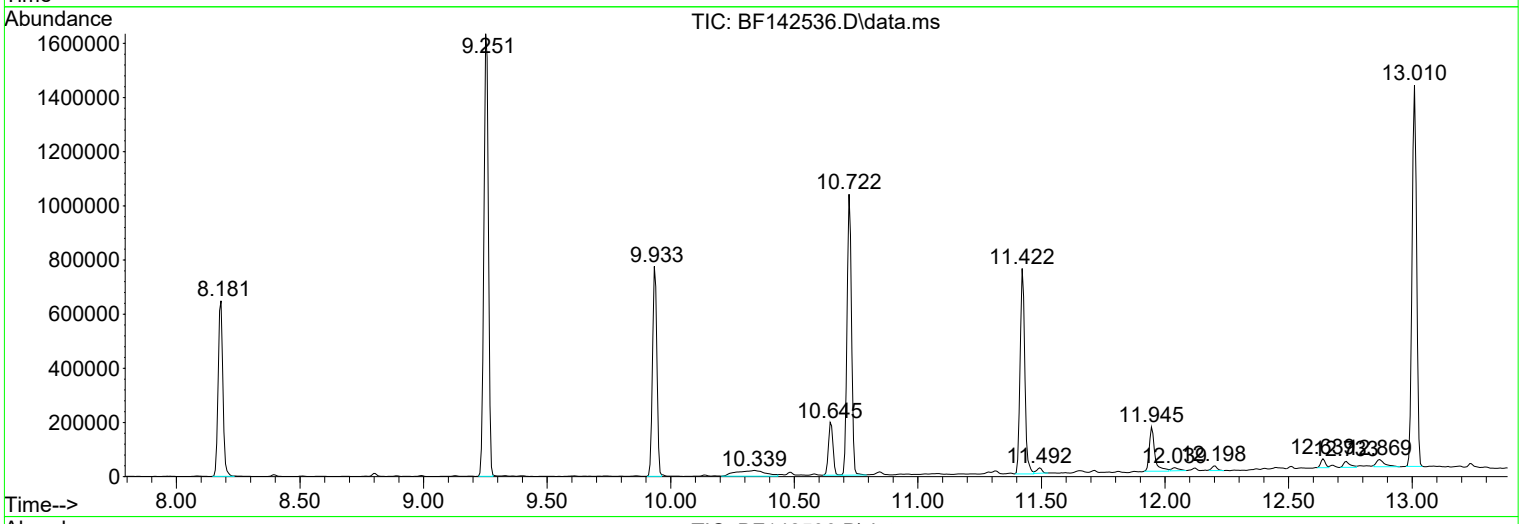
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

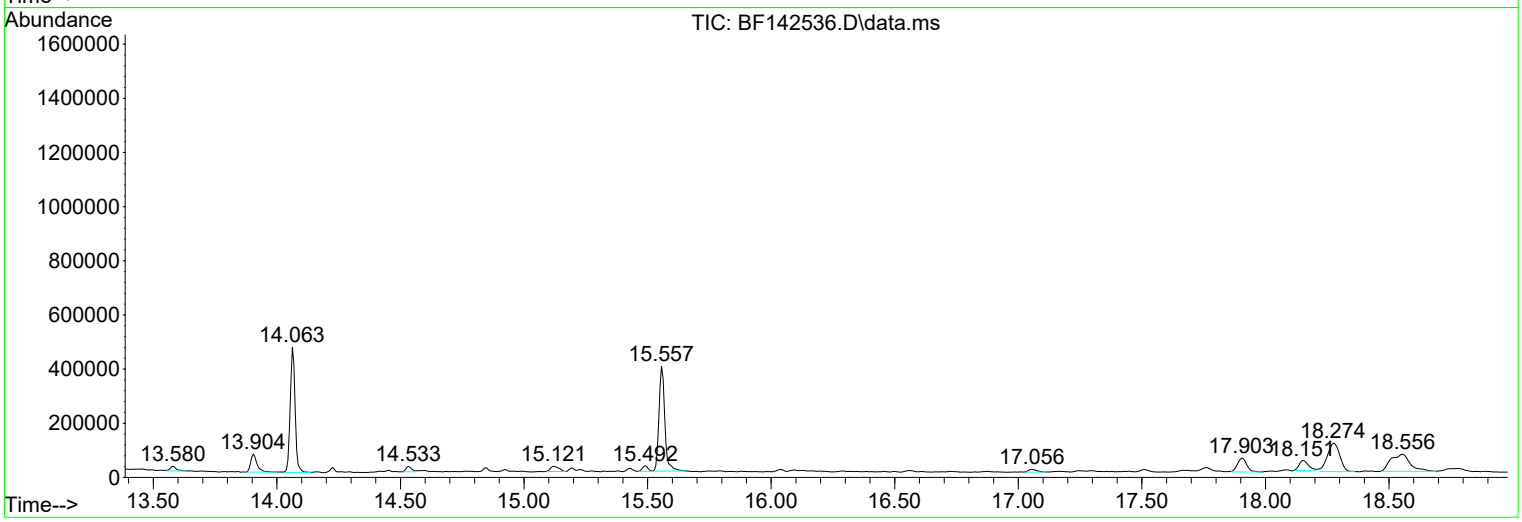
Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

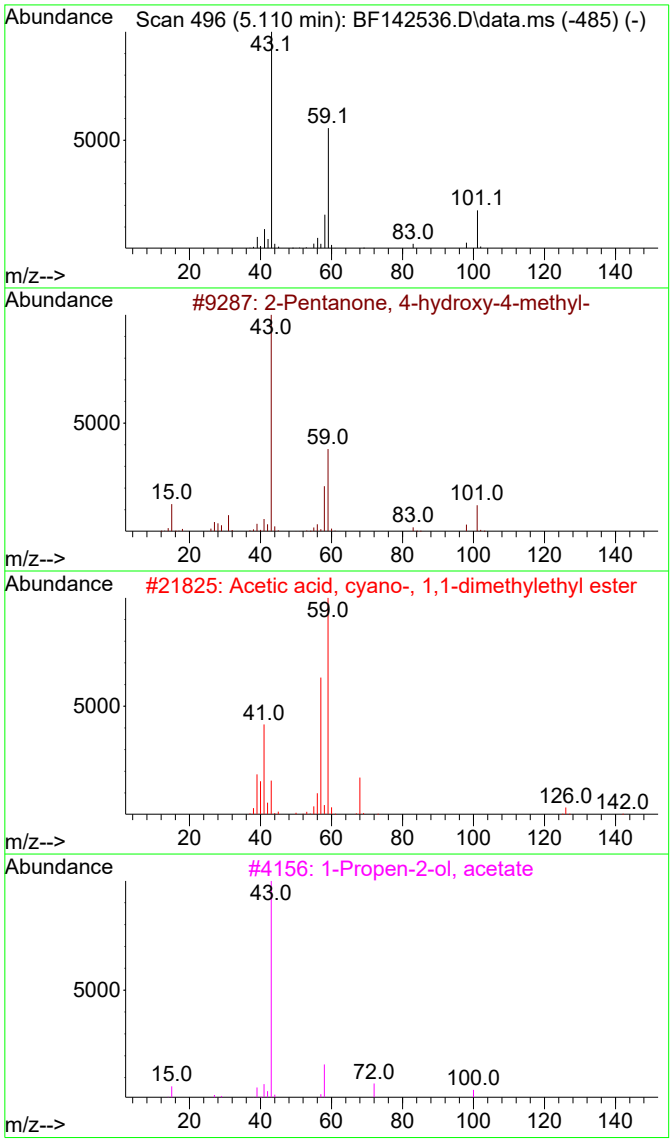
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

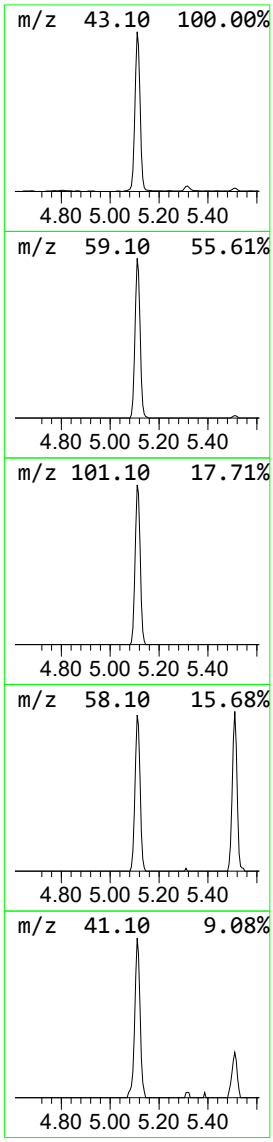
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.88 ng	185449	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

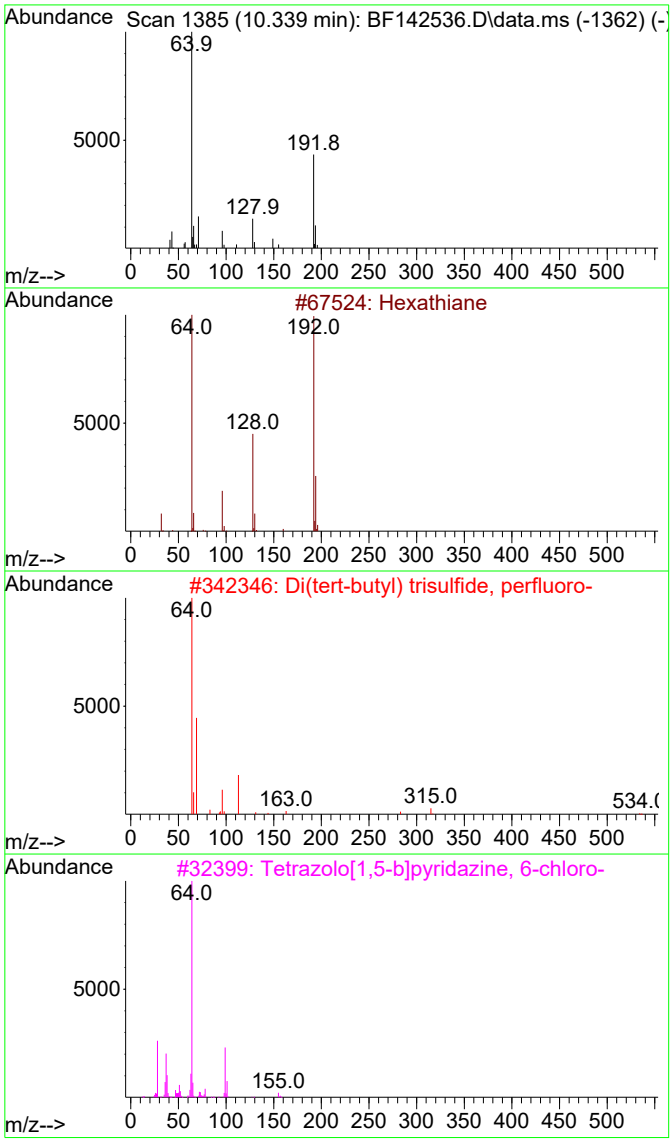
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

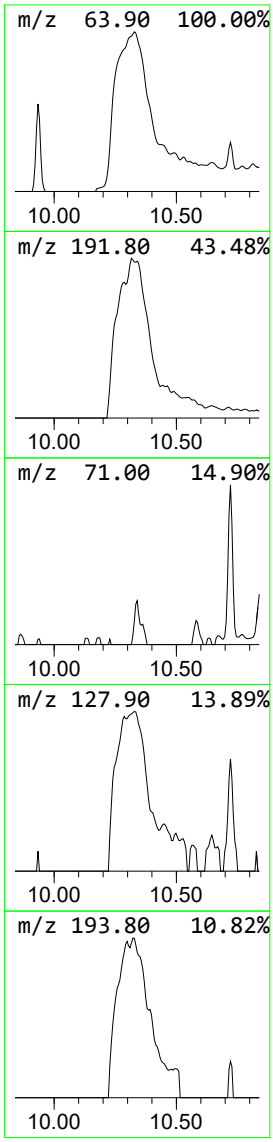
****

Peak Number 2 Hexathiane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.339	3.56 ng	172159	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexathiane	192	S6	013798-23-7	91
2	Di(tert-butyl) trisulfide, perfl...	534	C8F18S3	016005-64-4	9
3	Tetrazolo[1,5-b]pyridazine, 6-ch...	155	C4H2ClN5	021413-15-0	7
4	Sulfur dioxide	64	O2S	007446-09-5	4
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	4





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

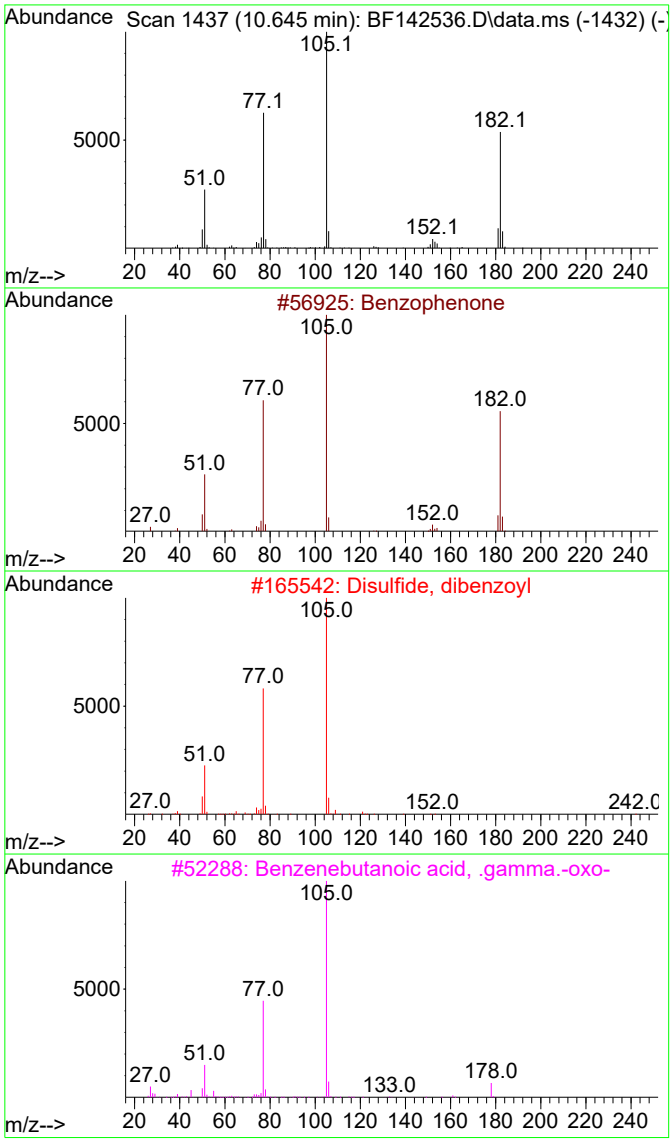
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

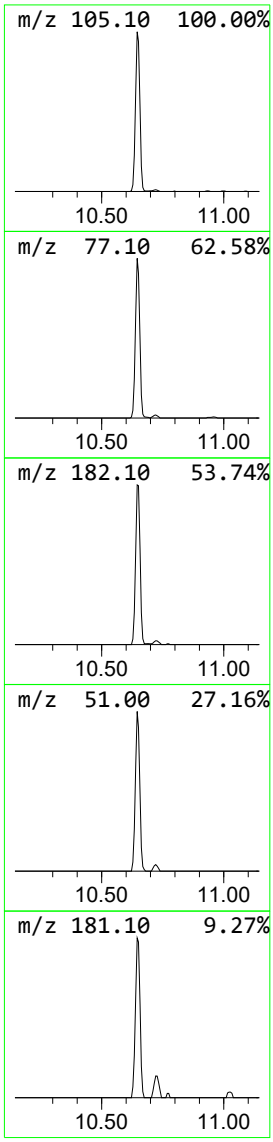
****

Peak Number 3 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	5.13 ng	247997	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
3	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
5	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

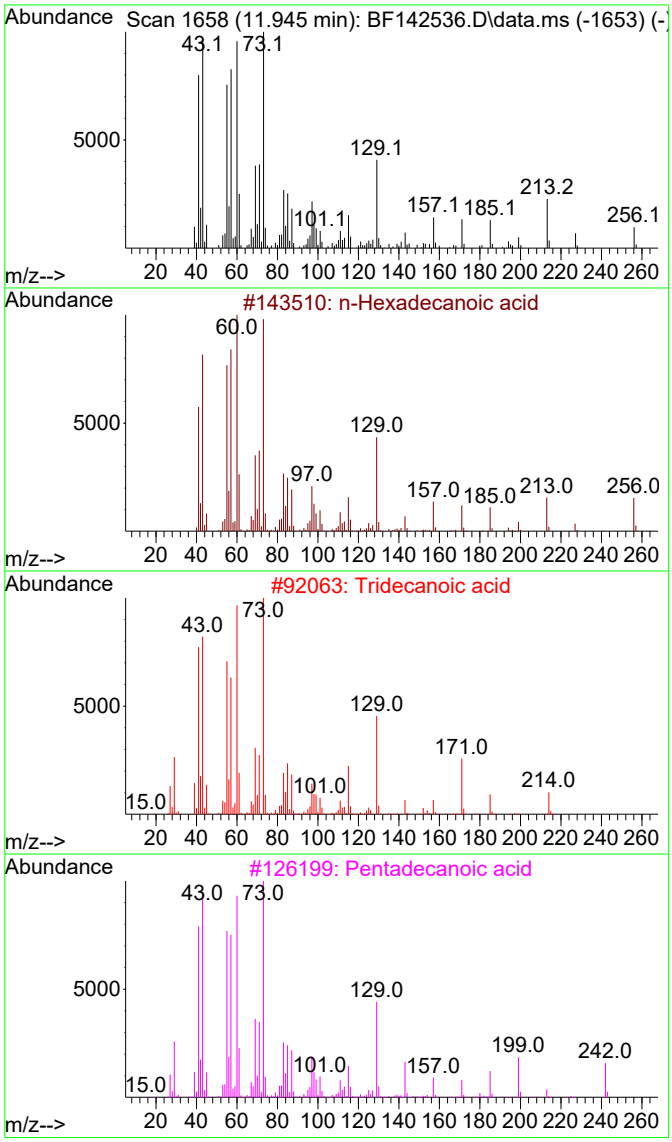
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

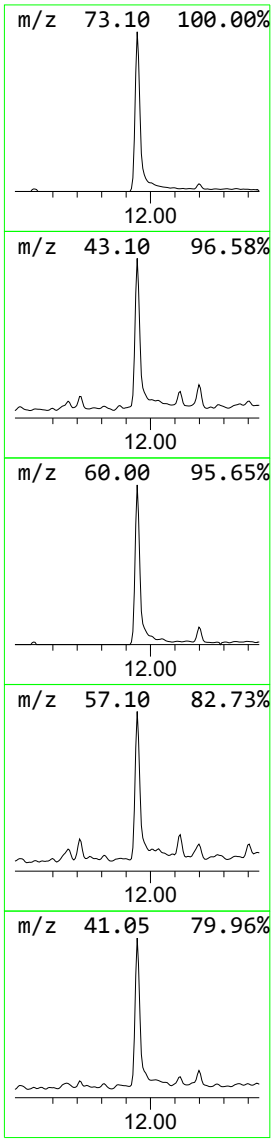
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.03 ng	251425	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	n-Decanoic acid	172	C10H20O2	000334-48-5	86
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	74





Sample Results: **BF142536.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

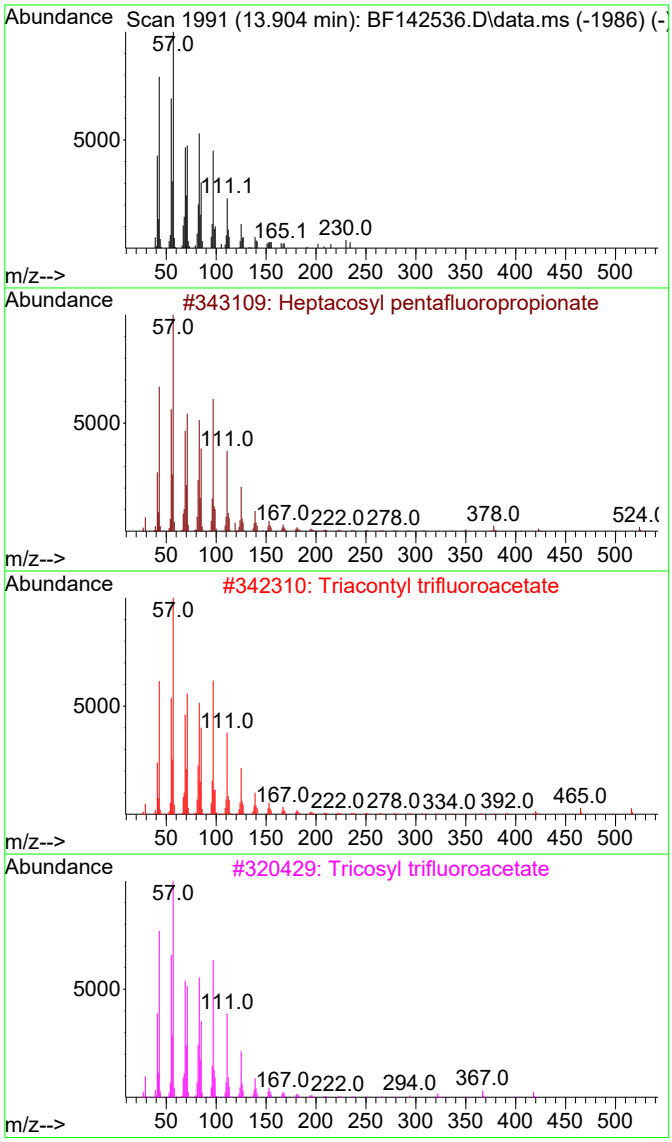
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

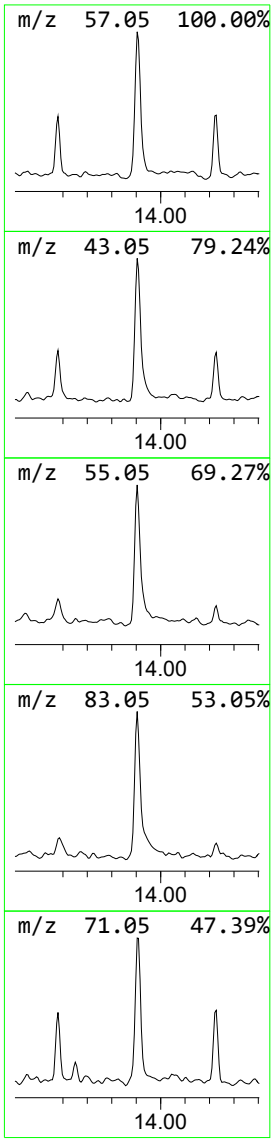
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Heptacosyl pentafluoropropi... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.70 ng	116644	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosyl pentafluoropropionate	542	C30H55F5O2	1000351-81-6	91
2	Triacontyl trifluoroacetate	534	C32H61F3O2	1000351-75-7	91
3	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
4	Hexacosyl pentafluoropropionate	528	C29H53F5O2	1000351-81-2	91
5	Hexacosyl trifluoroacetate	478	C28H53F3O2	1000351-75-0	91





Sample Results: **BF142536.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

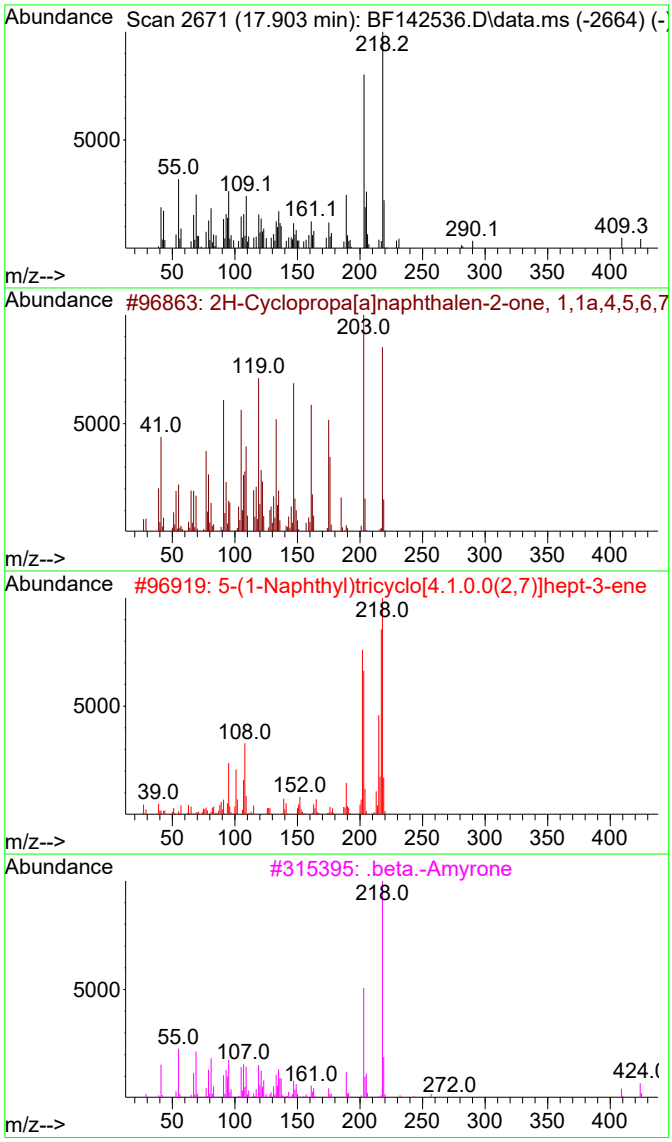
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

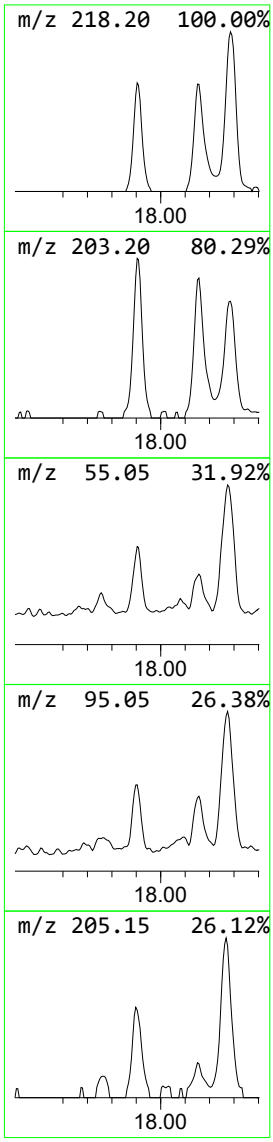
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 2H-Cyclopropa[a]naphthalen-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.904	4.21 ng	132332	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Cyclopropa[a]naphthalen-2-one...	218	C15H22O	006831-17-0	64
2	5-(1-Naphthyl)tricyclo[4.1.0.0(2...	218	C17H14	107729-05-5	64
3	.beta.-Amyrone	424	C30H48O	000638-97-1	62
4	1H-1,3-Benzodiazole-5-carbaldehy...	218	C11H14N2OSi	1000478-28-4	52
5	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

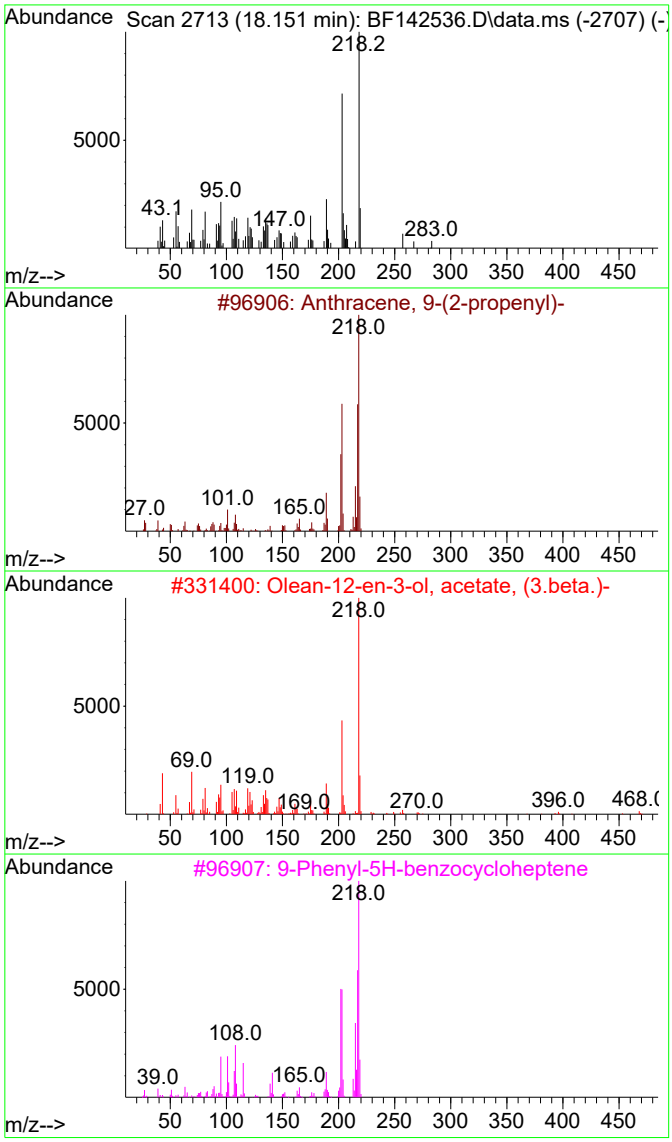
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

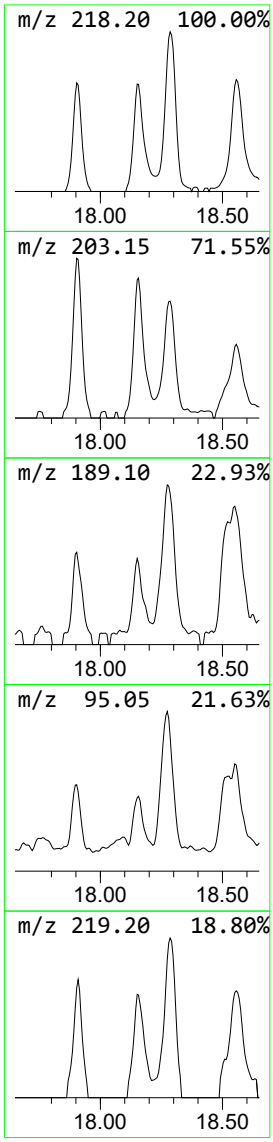
****

Peak Number 7 Anthracene, 9-(2-propenyl)- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.151	3.22 ng	101247	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-(2-propenyl)-	218	C17H14	023707-65-5	76
2	Olean-12-en-3-ol, acetate, (3.be...	468	C32H52O2	001616-93-9	74
3	9-Phenyl-5H-benzocycloheptene	218	C17H14	138089-71-1	72
4	5-(1-Naphthyl)tricyclo[4.1.0.0(2...	218	C17H14	107729-05-5	72
5	2H-Cyclopropa[a]naphthalen-2-one...	218	C15H22O	006831-17-0	70





Sample Results: **BF142536.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

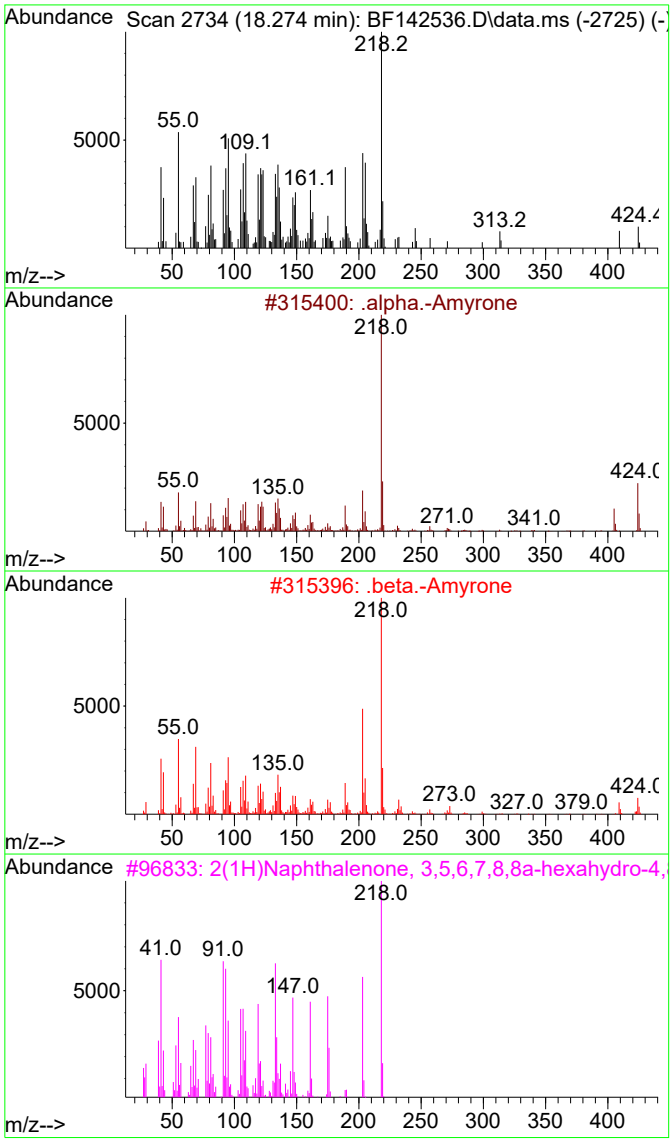
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

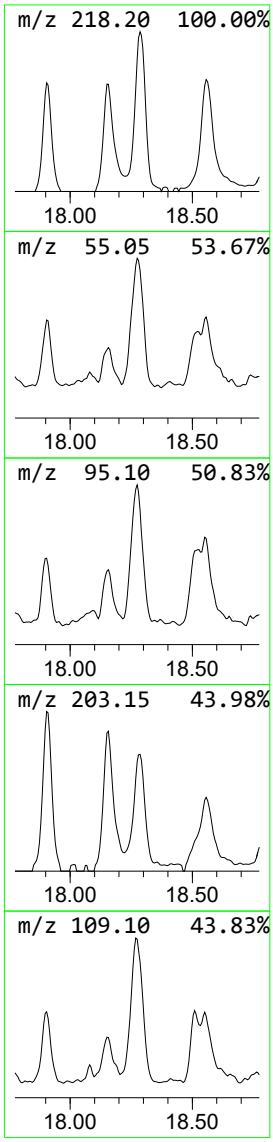
****

Peak Number 8 .alpha.-Amyrone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.274	11.57 ng	363772	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Amyrone	424	C30H48O	000638-96-0	98
2	.beta.-Amyrone	424	C30H48O	000638-97-1	50
3	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	49
4	24-Noroleana-3,12-diene	394	C29H46	201358-24-9	46
5	.alpha.-Boswellic acid, O,O-bis-...	484	C32H52O3	1010507-05-0	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

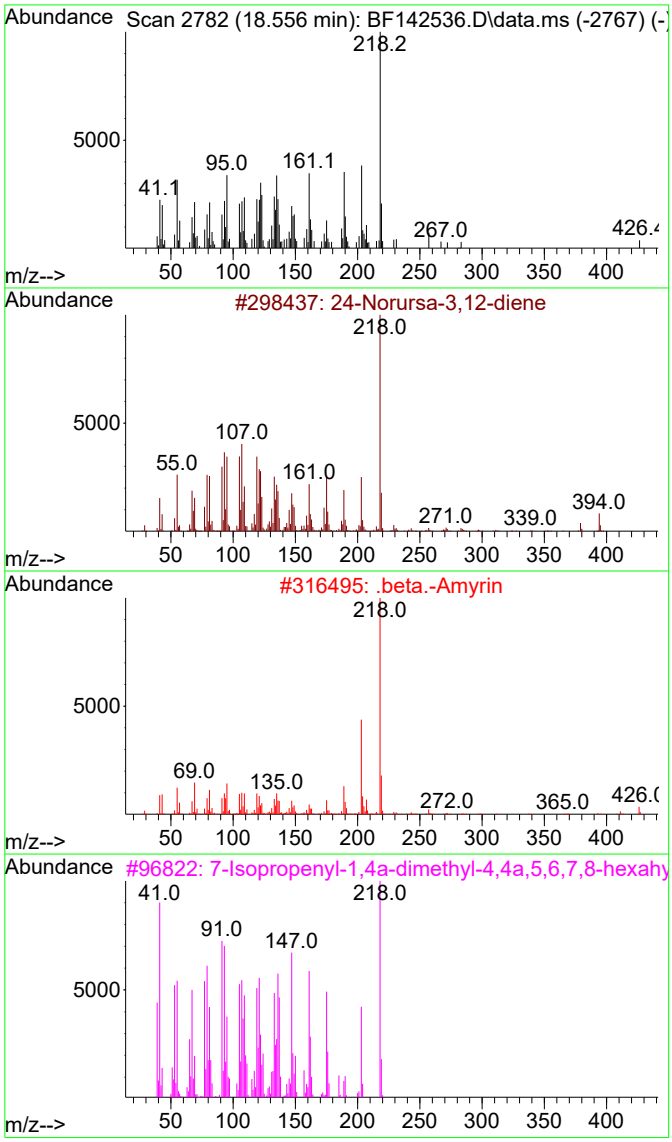
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

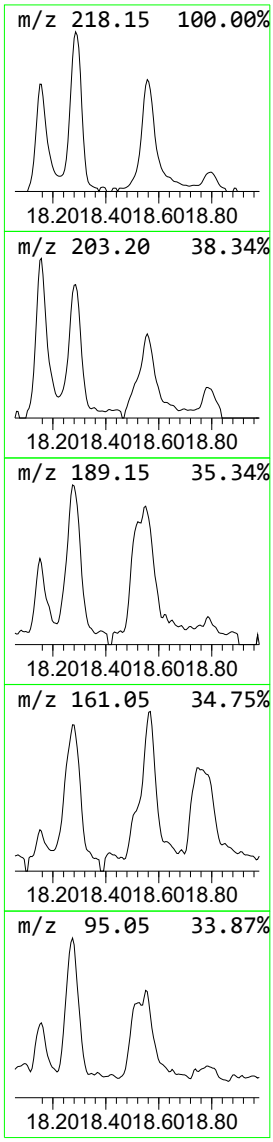
****

Peak Number 9 24-Norursa-3,12-diene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.556	10.87 ng	341990	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	24-Norursa-3,12-diene	394	C29H46	201358-25-0	64
2	.beta.-Amyrin	426	C30H50O	000559-70-6	58
3	7-Isopropenyl-1,4a-dimethyl-4,4a...	218	C15H22O	000473-08-5	58
4	Urs-12-en-3-ol, acetate, (3.beta.)-	468	C32H52O2	000863-76-3	58
5	5(1H)-Azulenone, 2,4,6,7,8,8a-he...	218	C15H22O	006754-66-1	52





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	5.9	ng	185449	1	6.898	631154	20.0
Hexathiane	10.339	3.6	ng	172159	3	9.933	967431	20.0
Benzophenone	10.645	5.1	ng	247997	3	9.933	967431	20.0
n-Hexadecanoic ...	11.945	5.0	ng	251425	4	11.422	998712	20.0
Heptacosyl pent...	13.904	3.7	ng	116644	5	14.063	630101	20.0
2H-Cyclopropa[a...	17.904	4.2	ng	132332	6	15.557	629020	20.0
Anthracene, 9-(...	18.151	3.2	ng	101247	6	15.557	629020	20.0
.alpha.-Amyrone	18.274	11.6	ng	363772	6	15.557	629020	20.0
24-Norursa-3,12...	18.556	10.9	ng	341990	6	15.557	629020	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Time: May 23 22:55:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

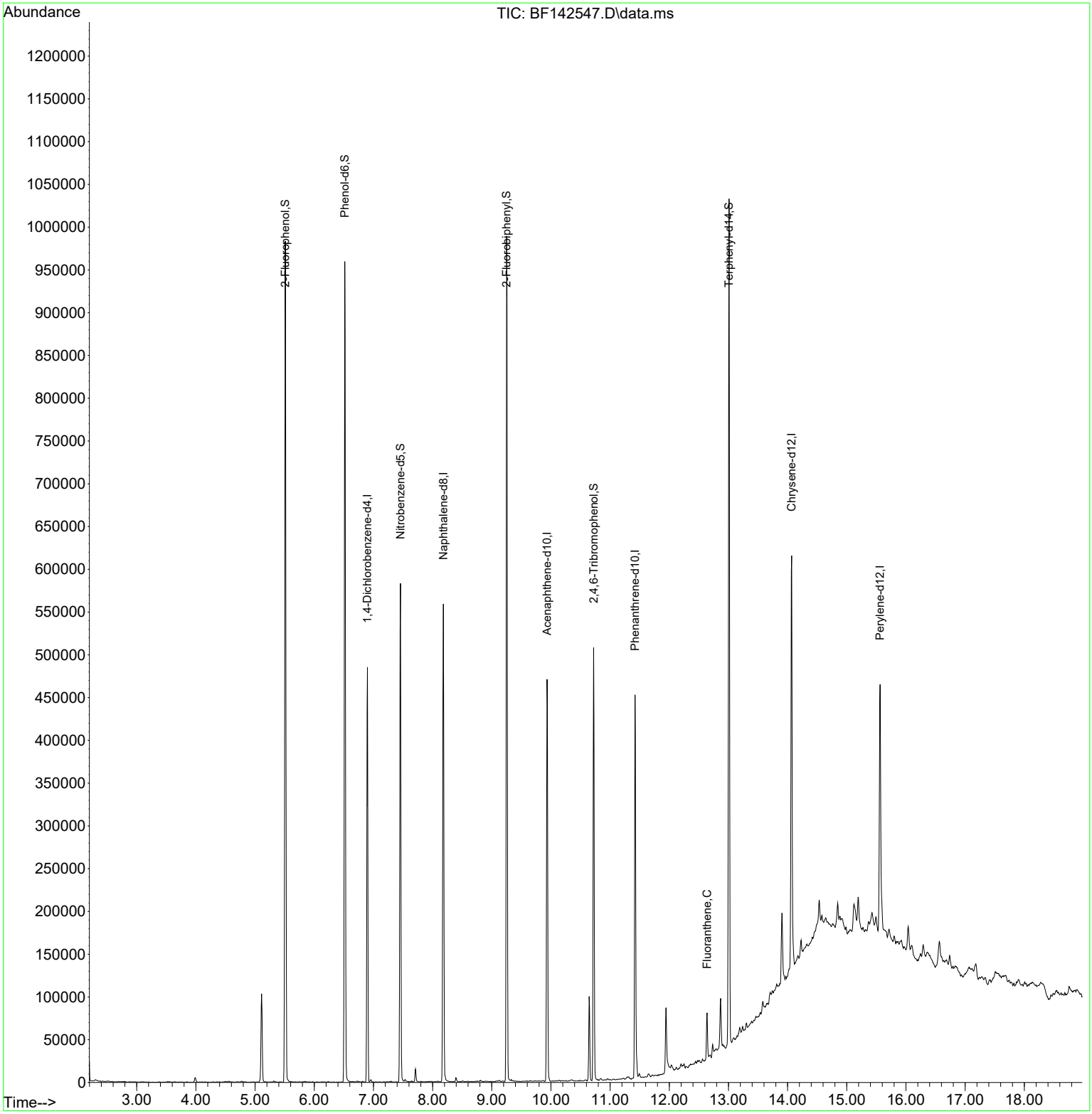
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105842	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	353306	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	144326	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	233043	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	235632	20.000	ng	0.00
86) Perylene-d12	15.563	264	174227	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	369359	58.793	ng	0.00
7) Phenol-d6	6.516	99	435356	57.568	ng	-0.02
23) Nitrobenzene-d5	7.457	82	240303	37.088	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	86203	53.815	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	447830	41.637	ng	-0.02
79) Terphenyl-d14	13.010	244	468160	27.151	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.639	202	32750	2.814	ng	99

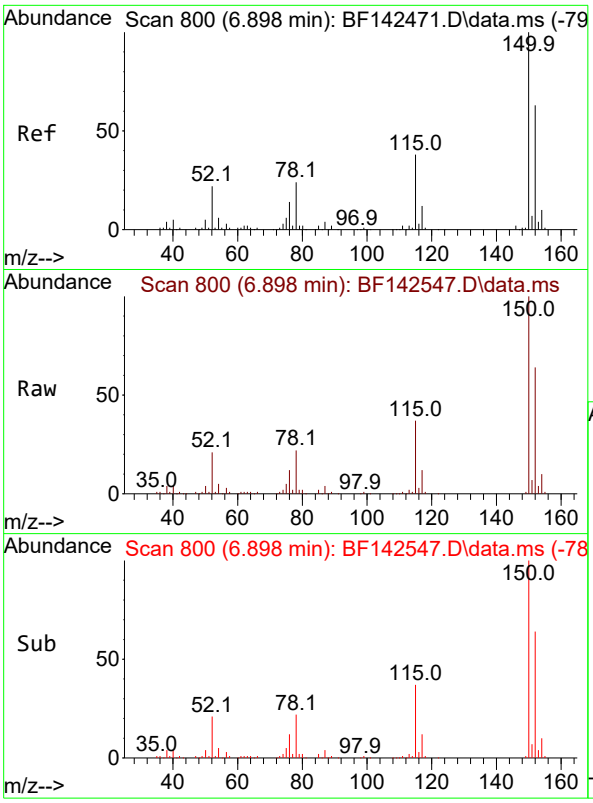
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Time: May 23 22:55:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



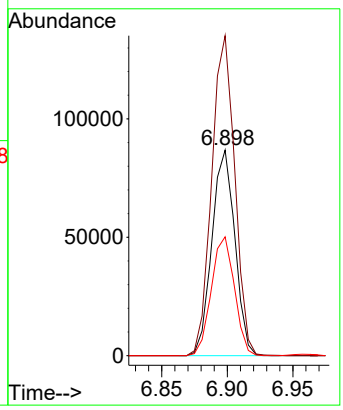


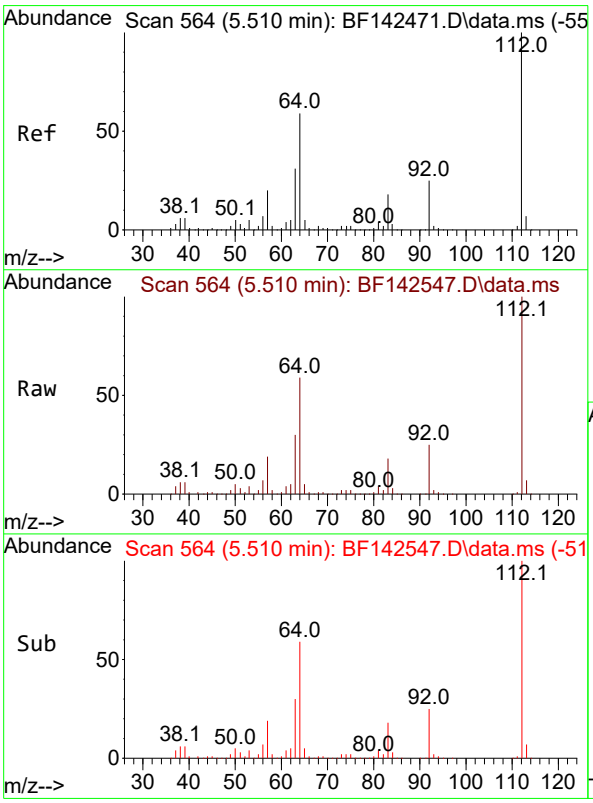
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:152 Resp: 105842

Ion	Ratio	Lower	Upper
152	100		
150	155.7	128.2	192.4
115	57.8	48.3	72.5

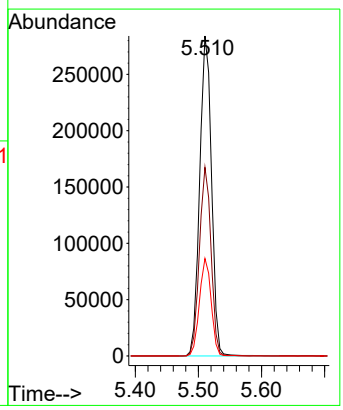


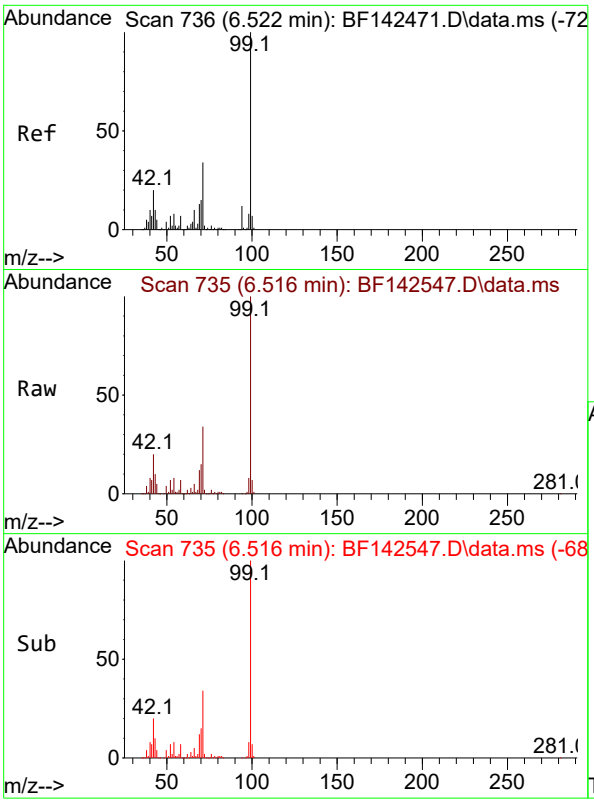


#5
2-Fluorophenol
Concen: 58.793 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:112 Resp: 369359

Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.5	71.3
63	30.4	24.9	37.3



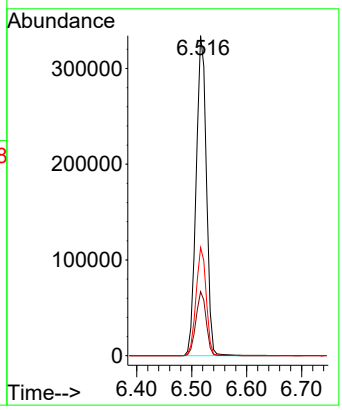


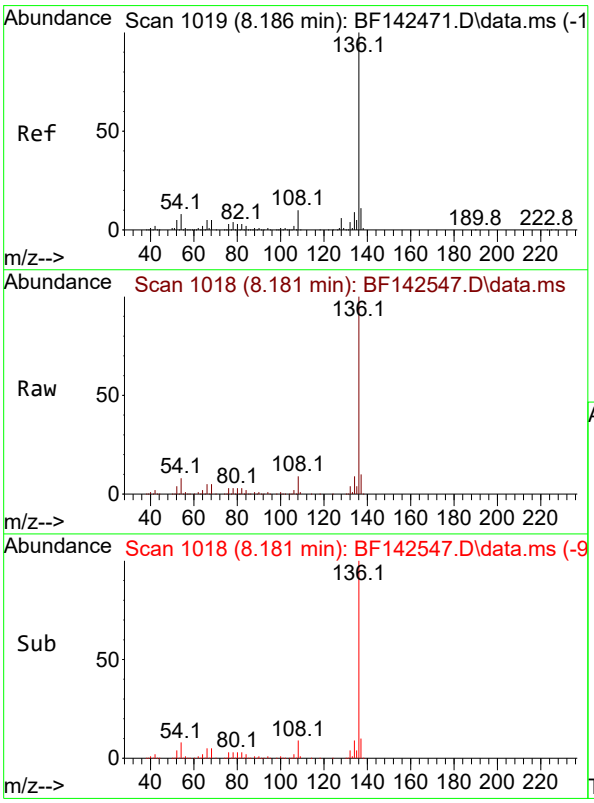
#7
Phenol-d6
Concen: 57.568 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion: 99 Resp: 435356

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.8	27.3	40.9

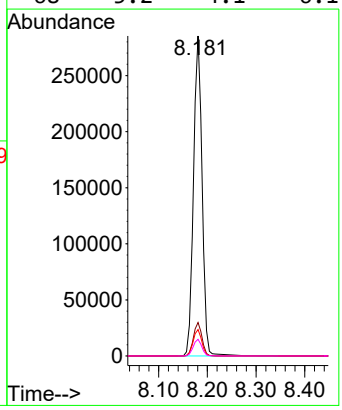


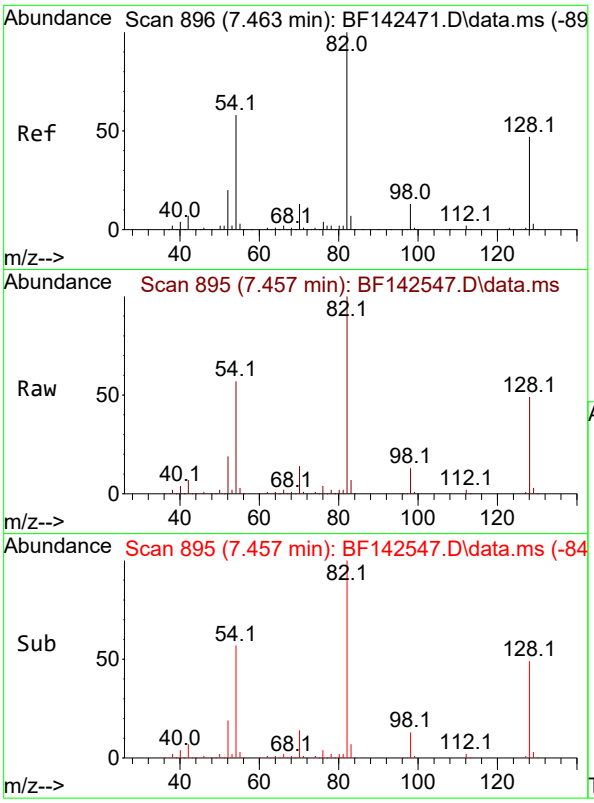


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:136 Resp: 353306

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	8.3	6.6	10.0
68	5.2	4.1	6.1



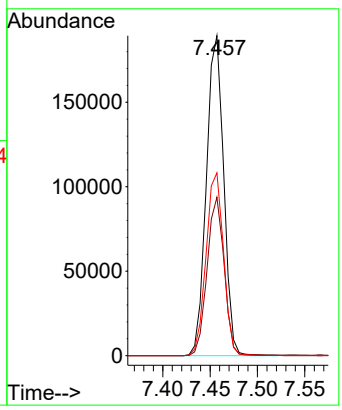


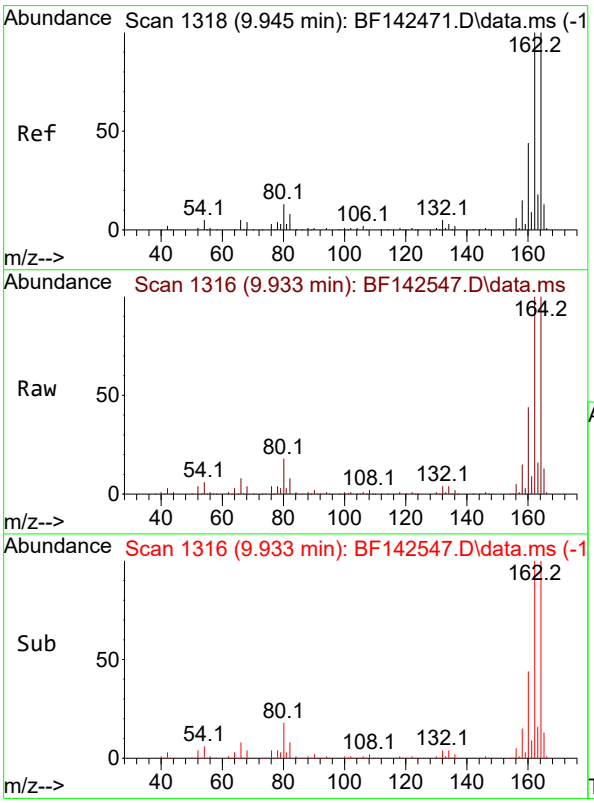
#23
Nitrobenzene-d5
Concen: 37.088 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion: 82 Resp: 240303

Ion	Ratio	Lower	Upper
82	100		
128	49.5	37.4	56.2
54	57.2	46.6	70.0

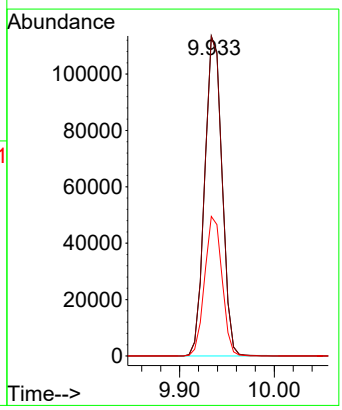


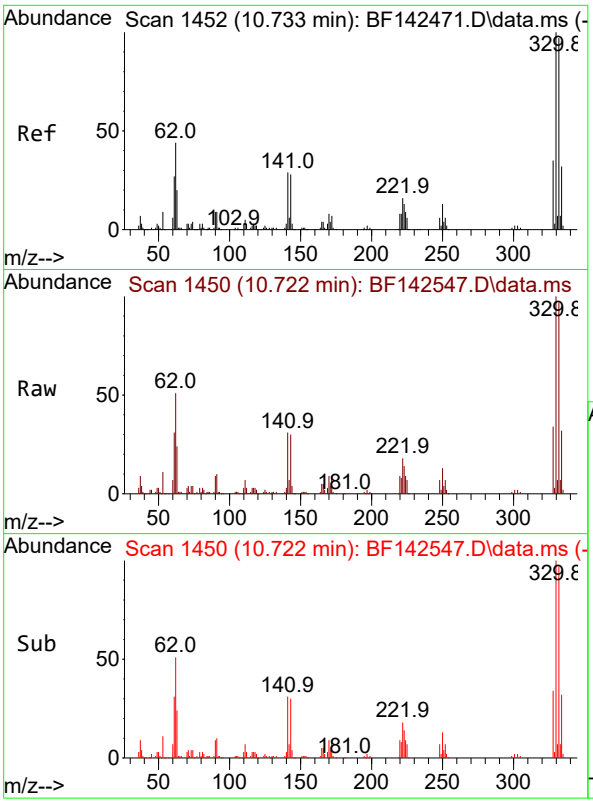


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:164 Resp: 144326

Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.2	120.4
160	43.6	35.6	53.4



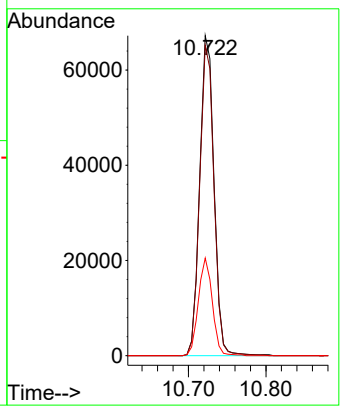


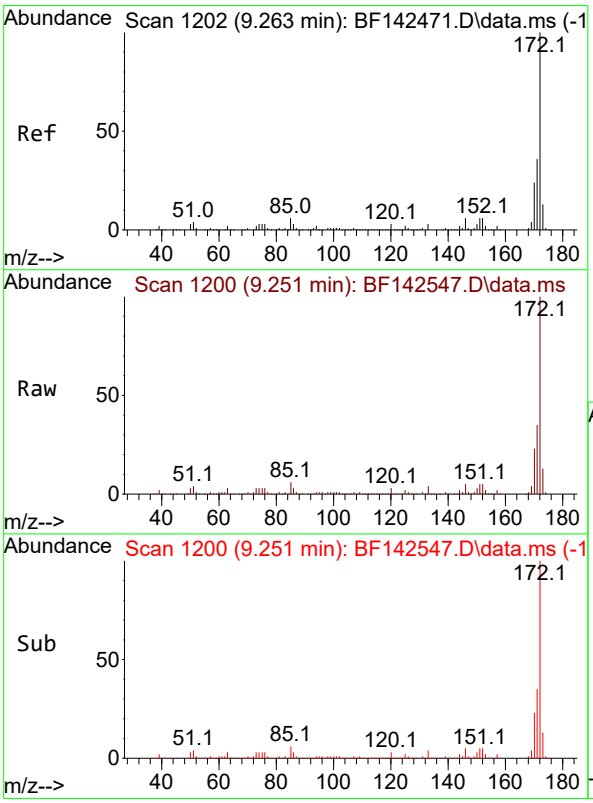
#42
2,4,6-Tribromophenol
Concen: 53.815 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:330 Resp: 86203

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	29.8	24.6	36.8

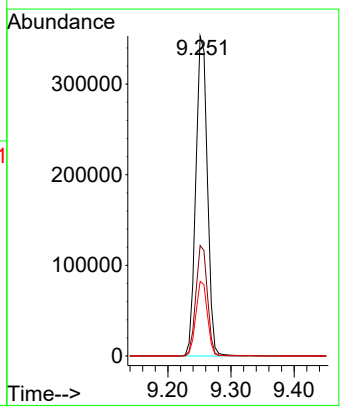


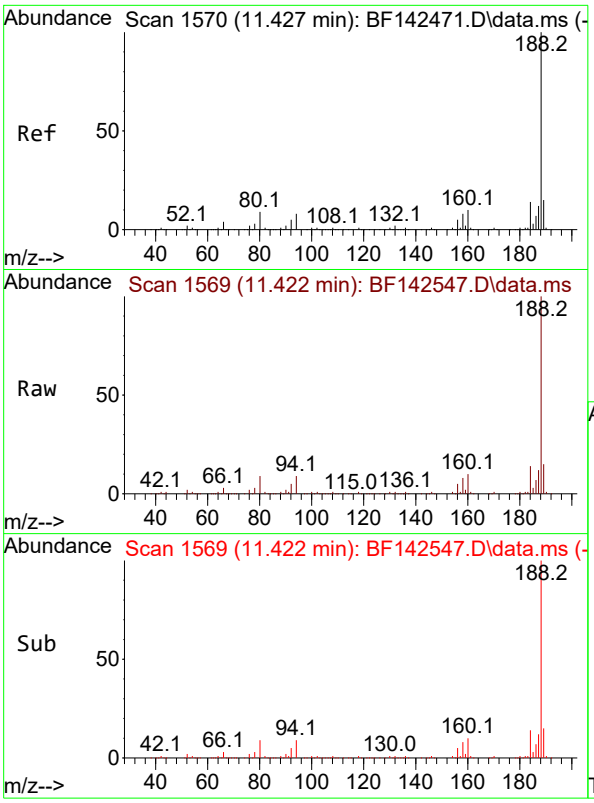


#45
2-Fluorobiphenyl
Concen: 41.637 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:172 Resp: 447830

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	42.8
170	23.3	18.9	28.3



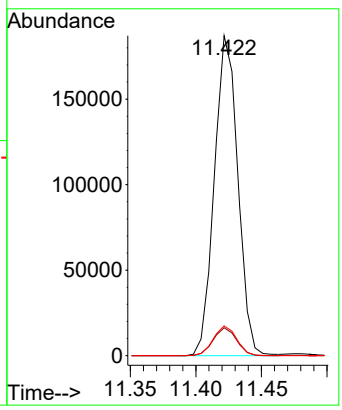


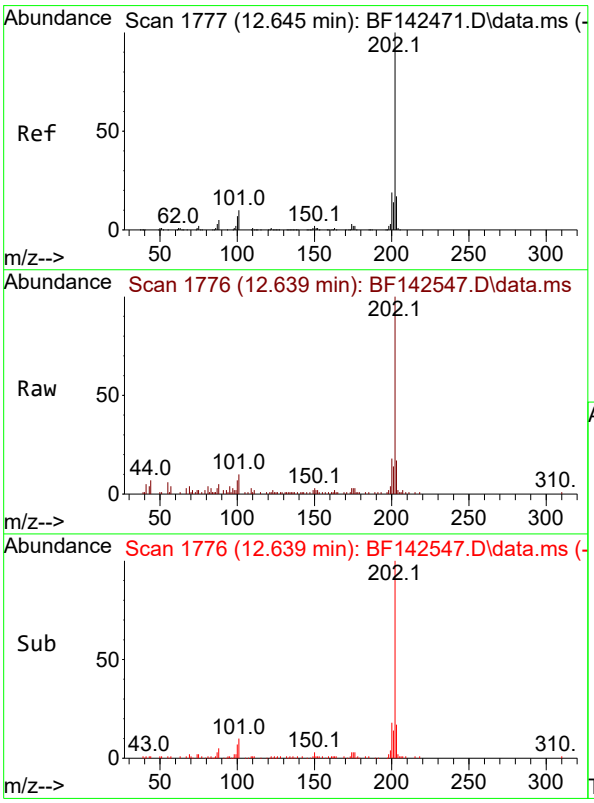
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:188 Resp: 233043

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.3	7.4	11.0

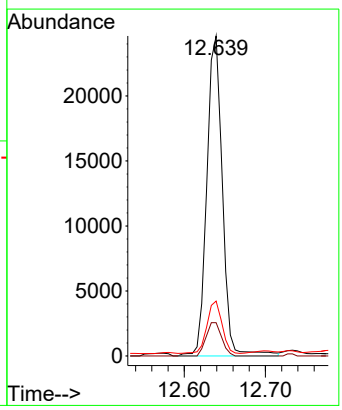


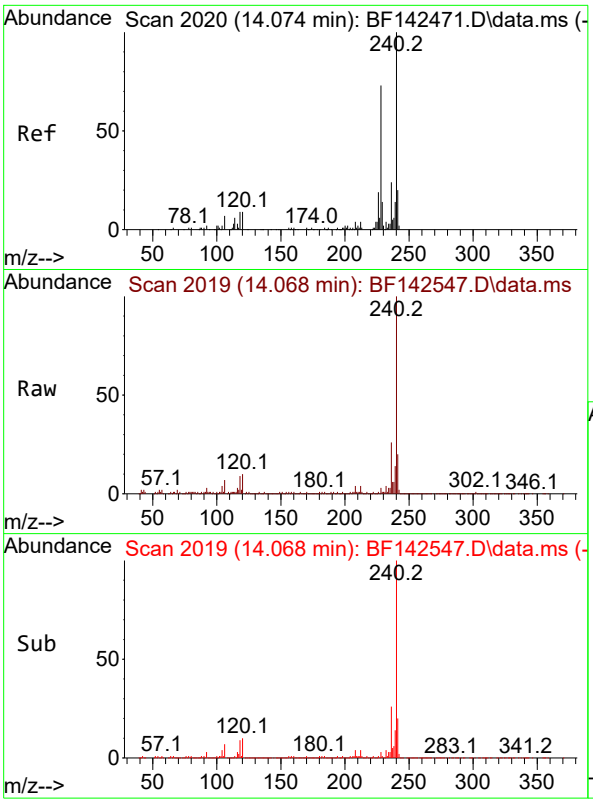


#75
Fluoranthene
Concen: 2.814 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:202 Resp: 32750

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	29.6
203	17.2	0.0	37.2



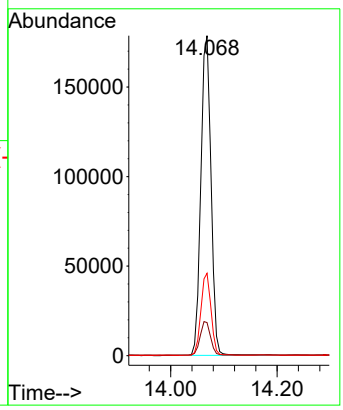


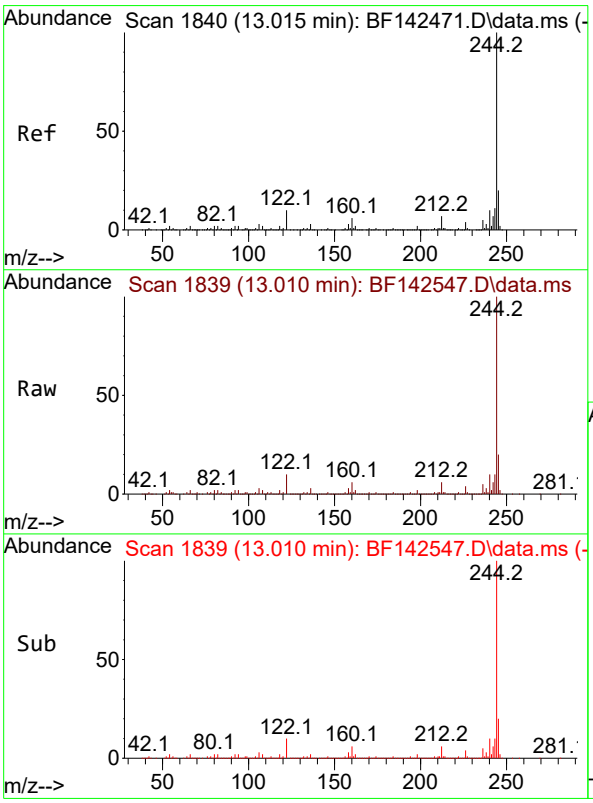
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:240 Resp: 235632

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.5	11.3
236	25.7	19.6	29.4

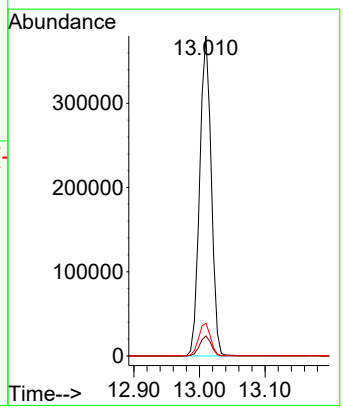


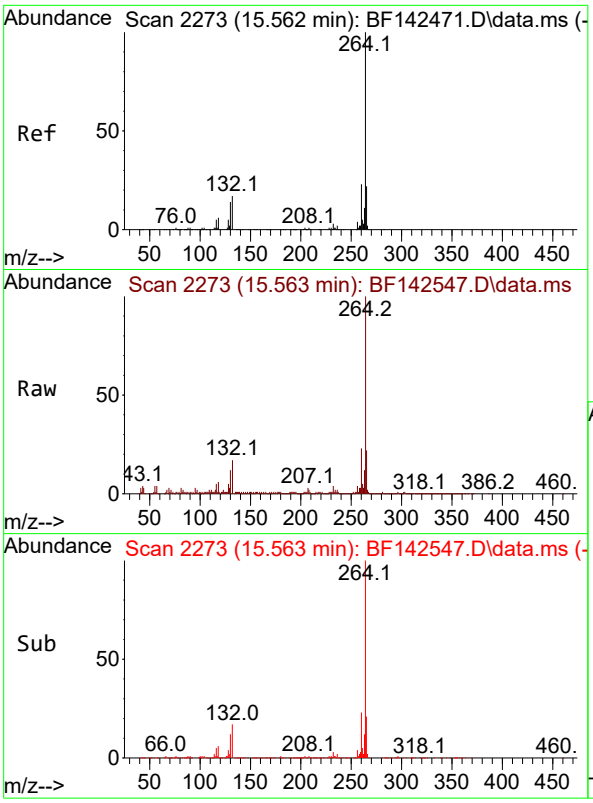


#79
Terphenyl-d14
Concen: 27.151 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:244 Resp: 468160

Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.3	7.9
122	10.3	8.2	12.2



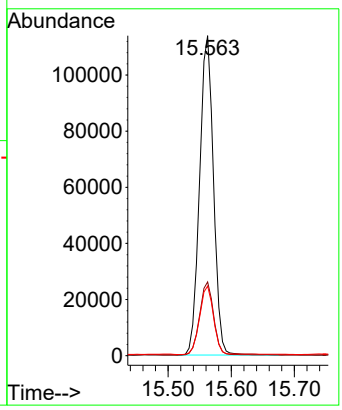


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:264 Resp: 174227

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.8	17.7	26.5



Sample Results: **BF142547.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142547.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.110	485	496	515	rBV	103366	148569	11.74%	1.387%
2	5.510	558	564	576	rBV	983229	1265597	100.00%	11.811%
3	6.516	729	735	748	rBV	958998	1254223	99.10%	11.705%
4	6.898	795	800	805	rBV	484771	594500	46.97%	5.548%
5	7.457	889	895	900	rBV	582872	737616	58.28%	6.884%
6	7.710	933	938	944	rBV	14766	18942	1.50%	0.177%
7	8.181	1012	1018	1023	rBV	558308	685593	54.17%	6.398%
8	9.251	1195	1200	1211	rBV	988247	1237471	97.78%	11.549%
9	9.933	1311	1316	1326	rVB	469822	596291	47.12%	5.565%
10	10.645	1432	1437	1445	rBV	98658	121064	9.57%	1.130%
11	10.722	1445	1450	1458	rBV	505972	633198	50.03%	5.909%
12	11.422	1564	1569	1577	rBV	448113	582788	46.05%	5.439%
13	11.945	1652	1658	1668	rBV3	77037	136370	10.78%	1.273%
14	12.033	1671	1673	1681	rVB4	6614	14190	1.12%	0.132%
15	12.639	1771	1776	1780	rBV	55211	75374	5.96%	0.703%
16	12.733	1788	1792	1795	rBV5	15143	23118	1.83%	0.216%
17	12.869	1810	1815	1819	rBV	57137	78791	6.23%	0.735%
18	13.010	1834	1839	1844	rBV	986879	1226116	96.88%	11.443%
19	13.904	1987	1991	2000	rBV2	81314	133514	10.55%	1.246%
20	14.068	2014	2019	2027	rVB	477522	672990	53.18%	6.281%
21	15.563	2268	2273	2283	rVB	286636	478727	37.83%	4.468%

Sum of corrected areas: 10715042

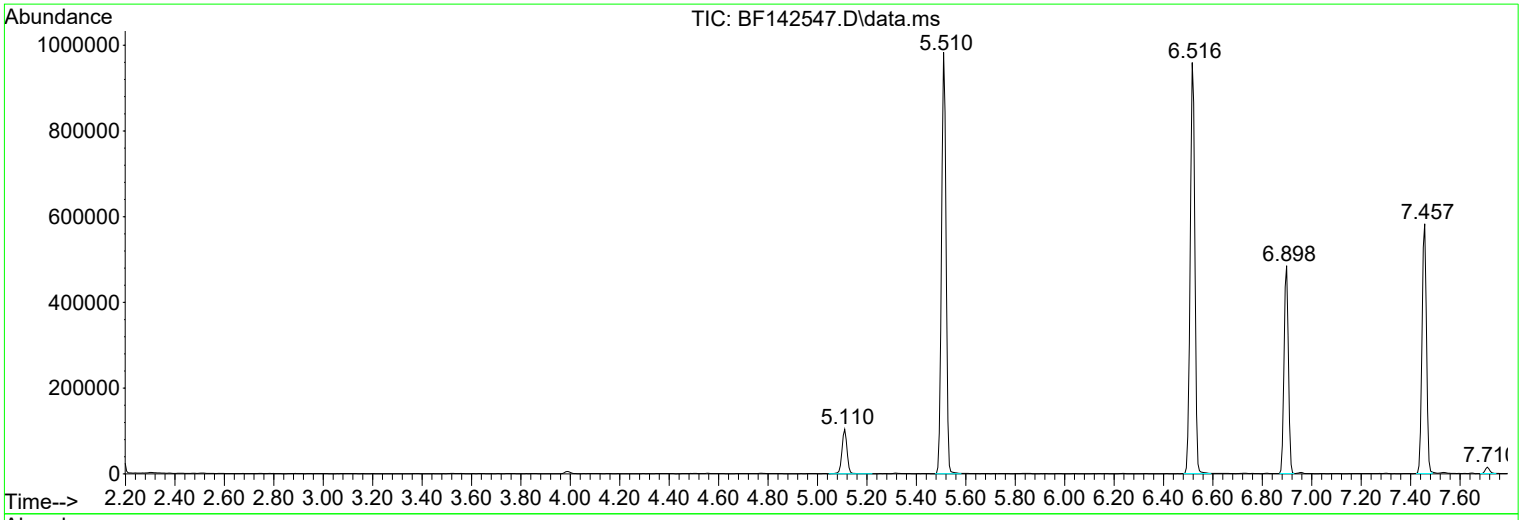
Sample Results: **BF142547.D**

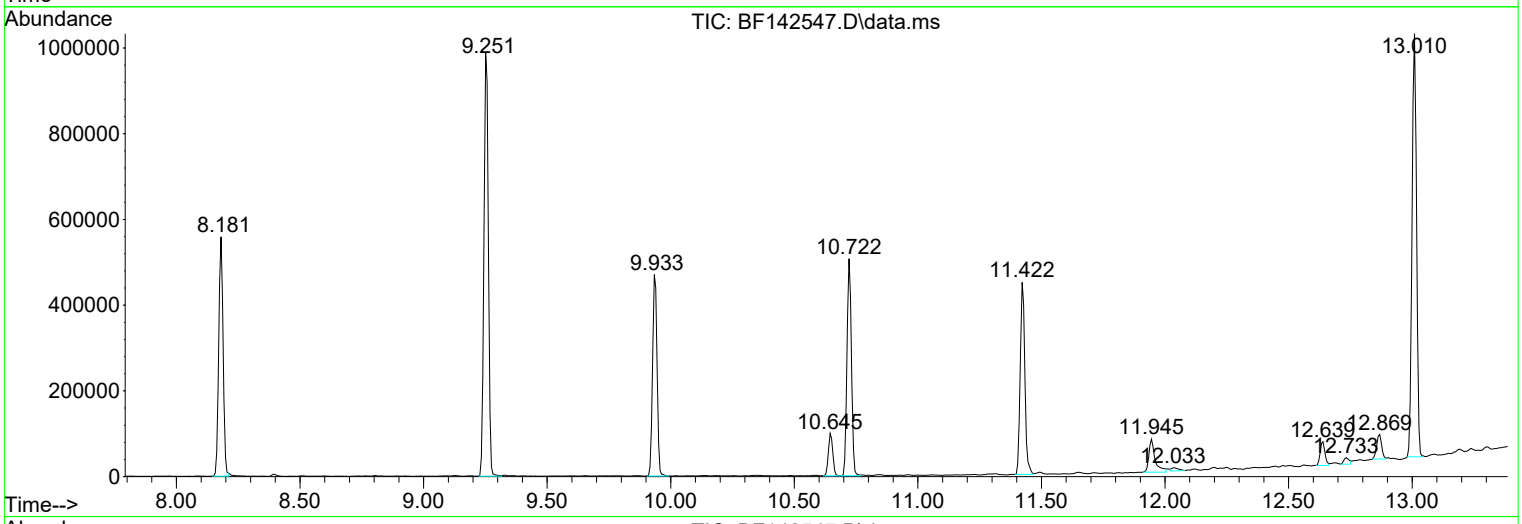
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

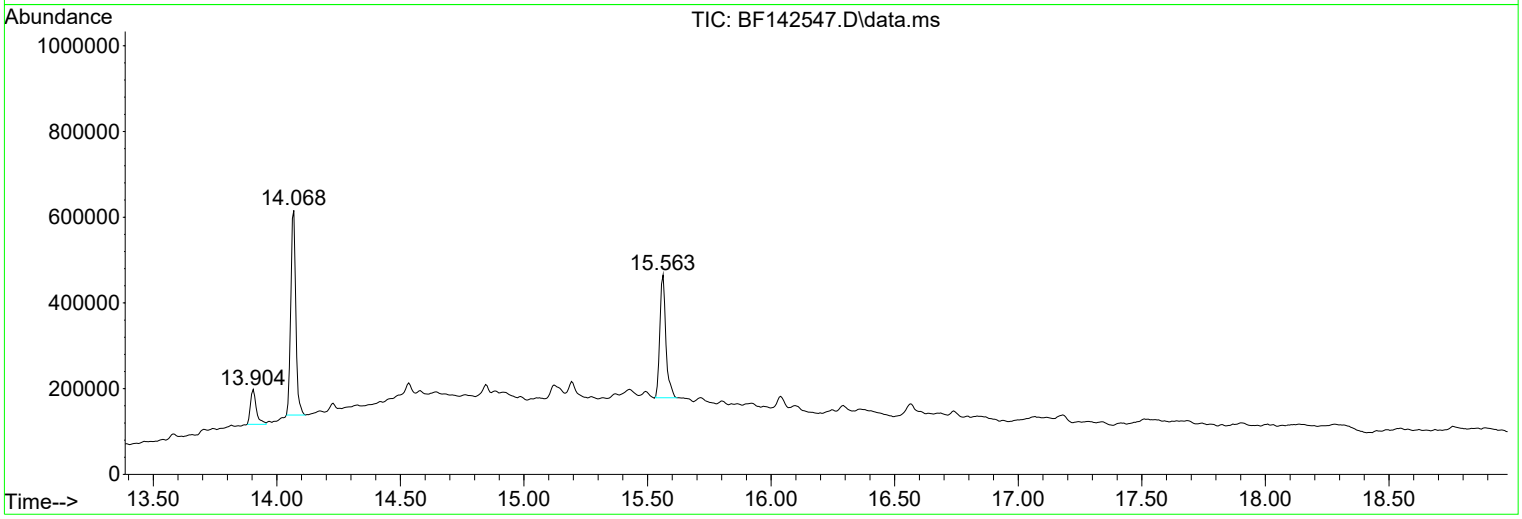
Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

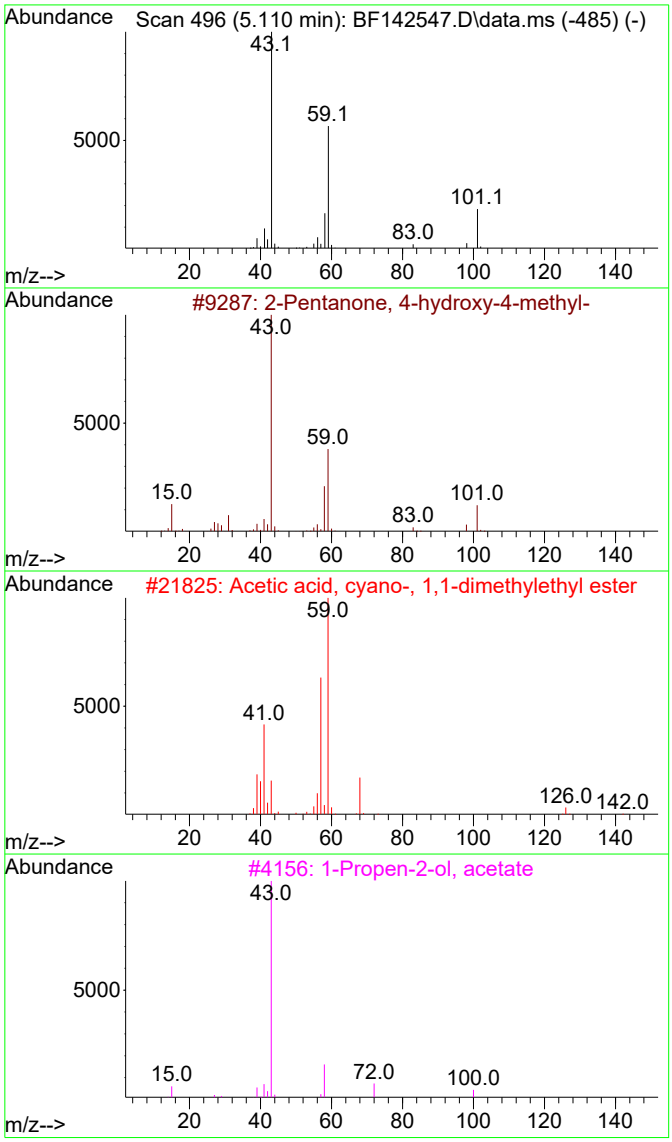
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

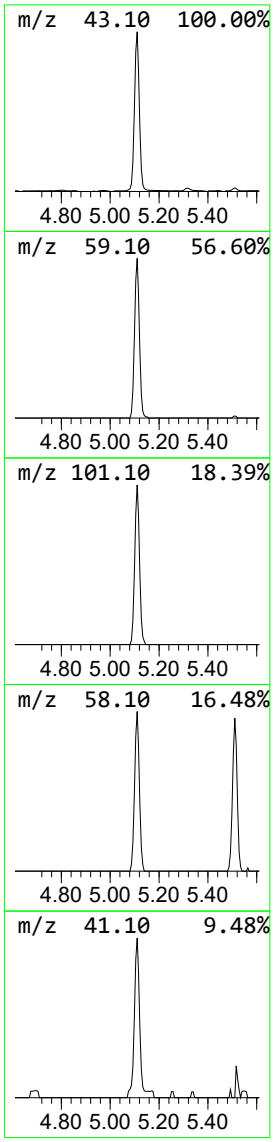
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.00 ng	148569	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

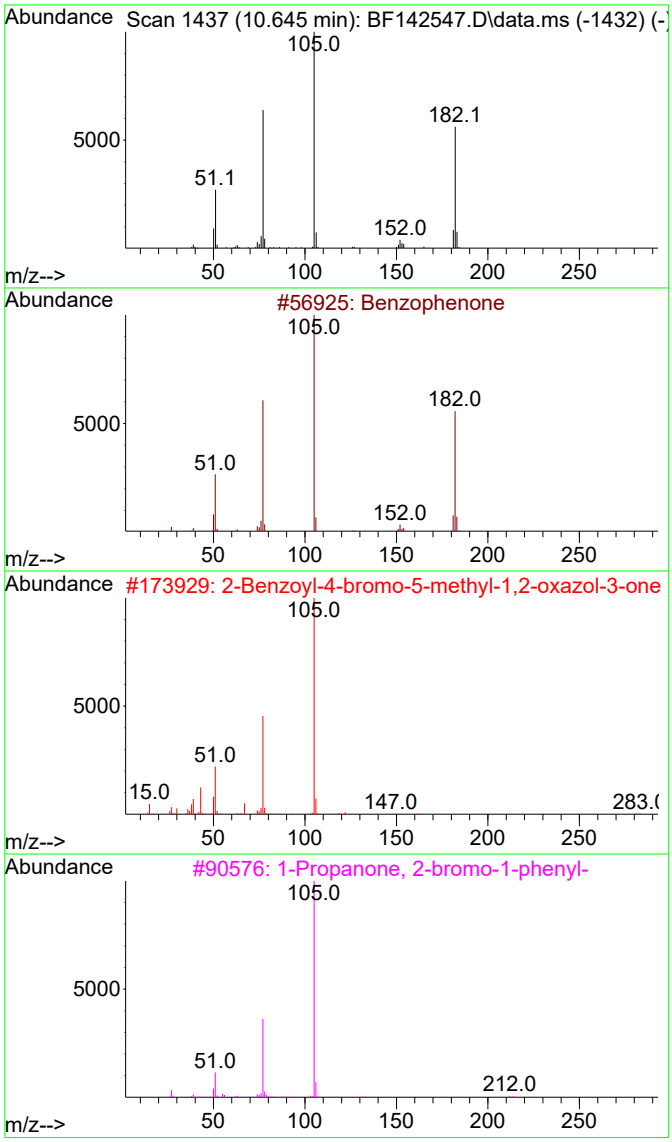
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

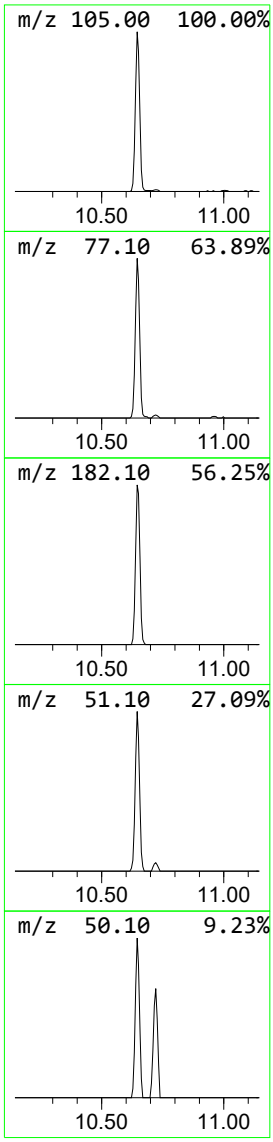
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.06 ng	121064	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	50
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	50
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50
5	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

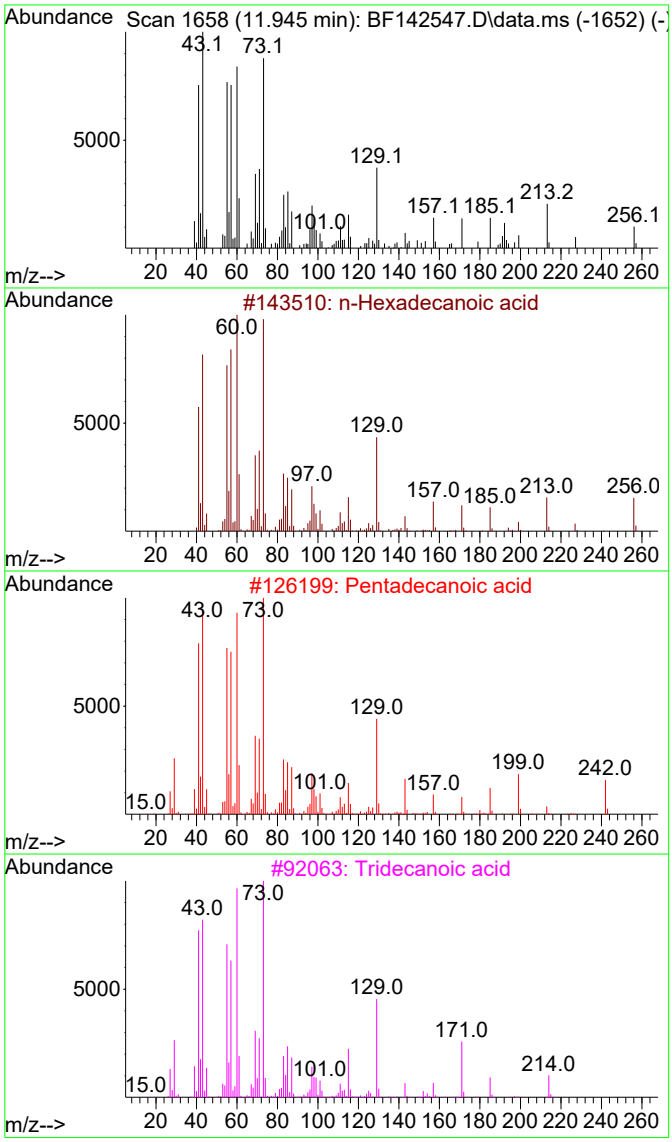
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

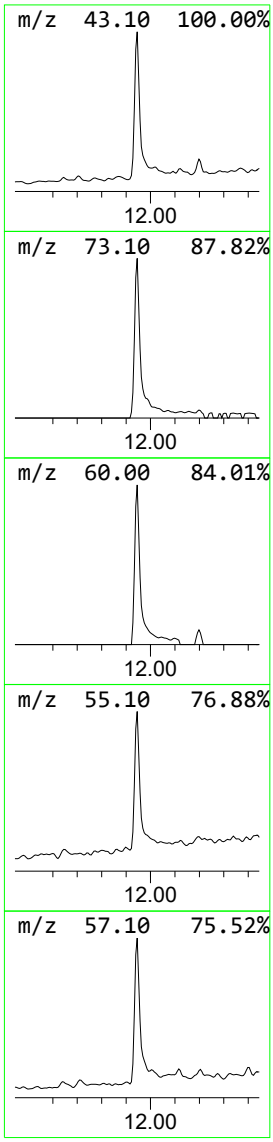
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.68 ng	136370	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
3	Tridecanoic acid	214	C13H26O2	000638-53-9	76
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	53
5	Octanoic acid	144	C8H16O2	000124-07-2	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

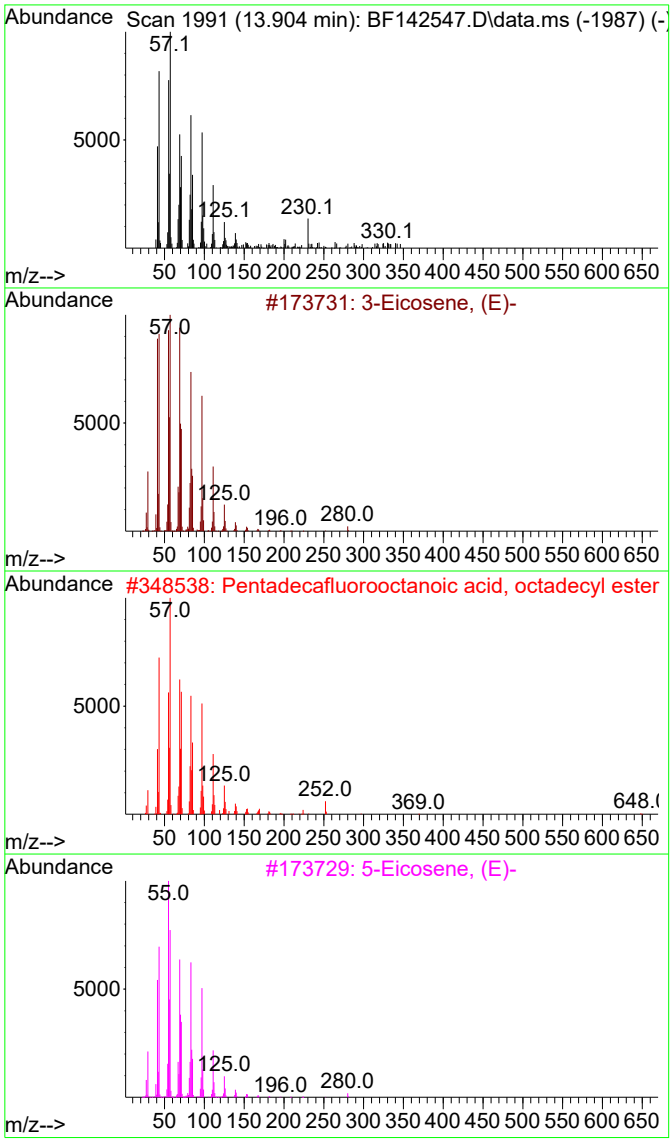
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

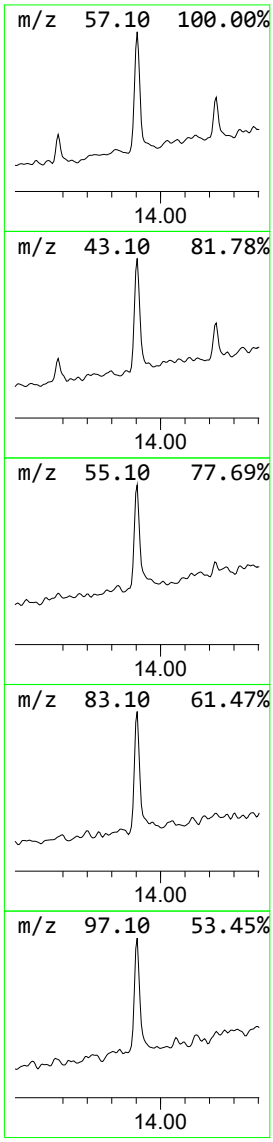
****

Peak Number 5 3-Eicosene, (E)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.97 ng	133514	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	95
2	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
3	5-Eicosene, (E)-	280	C20H40	074685-30-6	93
4	1-Nonadecene	266	C19H38	018435-45-5	93
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

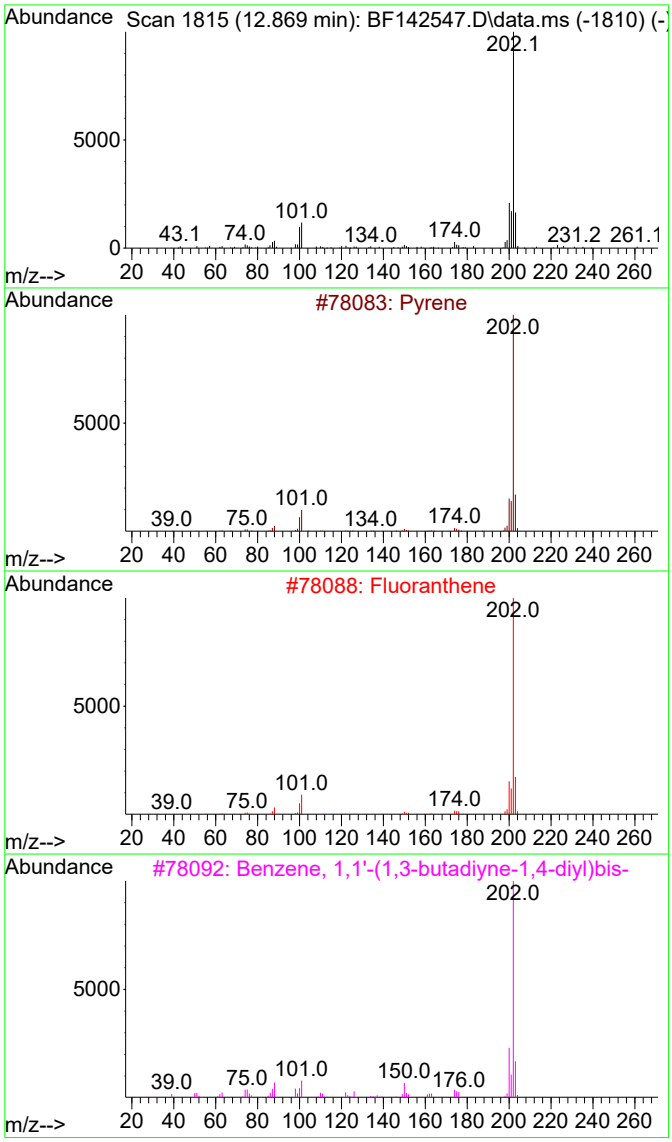
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

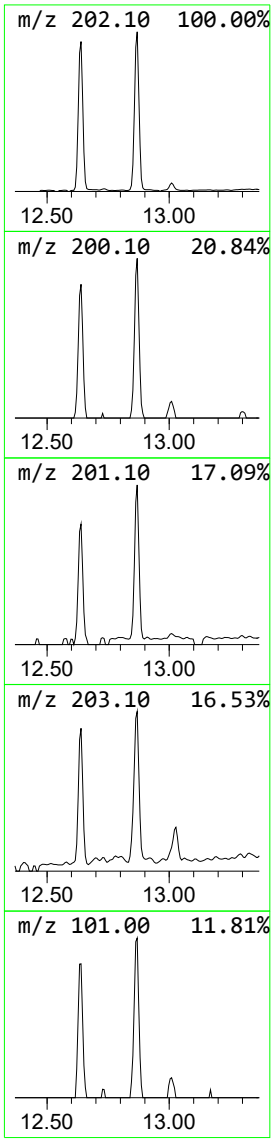
****

Peak Number 6 unknown12.869 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.869	2.34 ng	78791	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene	202	C16H10	000129-00-0	96
2	Fluoranthene	202	C16H10	000206-44-0	91
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	39
4	Succinic acid, di(4-cyanophenyl)...	320	C18H12N2O4	1000360-71-2	38
5	Pyrimidine, 4-methoxy-6-(2-hydro...	202	C11H10N2O2	097630-79-0	33





Sample Results: **BF142547.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	5.0	ng	148569	1	6.898	594500	20.0
Benzophenone	10.645	4.1	ng	121064	3	9.933	596291	20.0
n-Hexadecanoic ...	11.945	4.7	ng	136370	4	11.422	582788	20.0
3-Eicosene, (E)-	13.904	4.0	ng	133514	5	14.069	672990	20.0
unknown12.869	12.869	2.3	ng	78791	5	14.069	672990	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Time: May 23 14:29:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

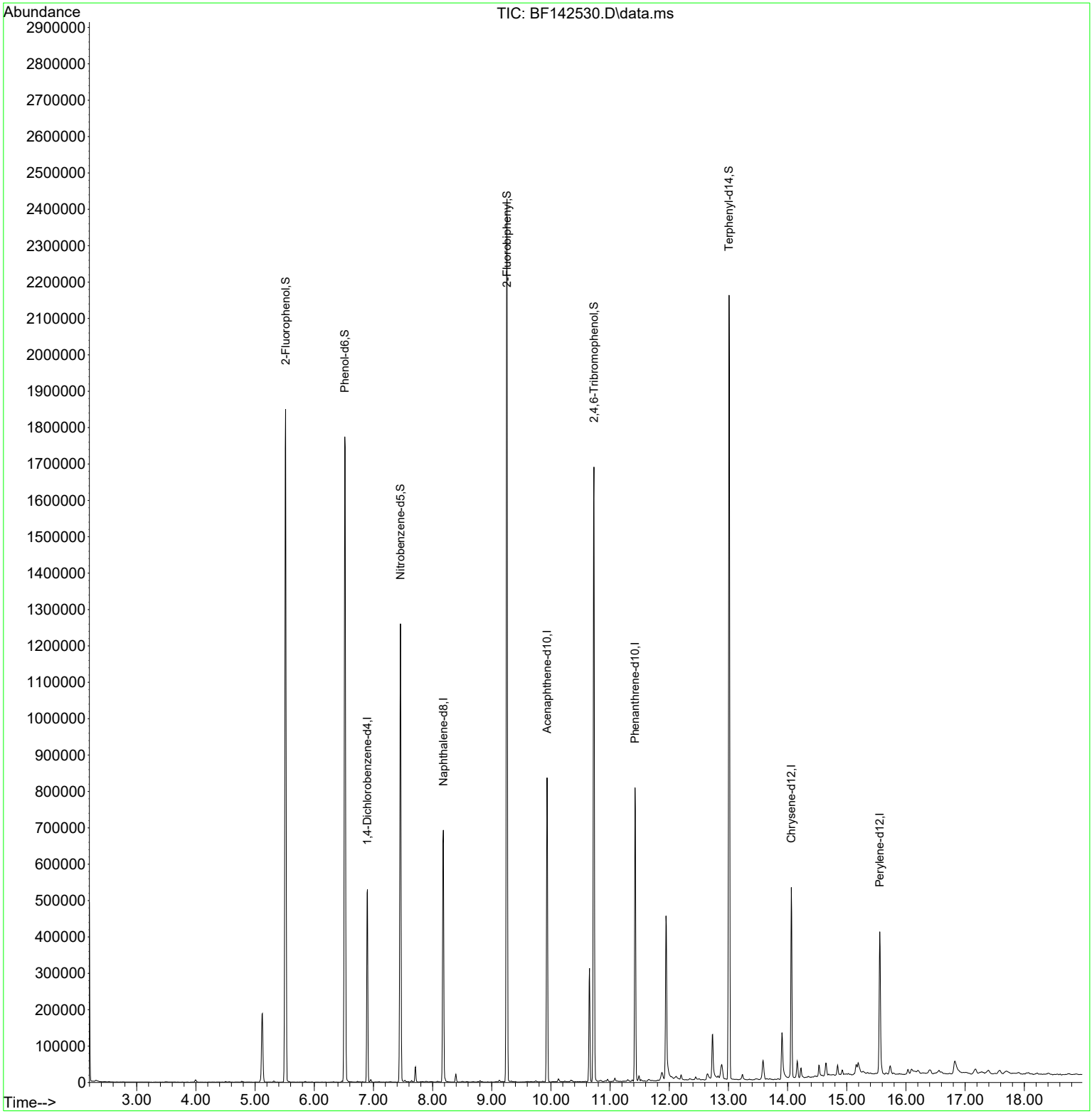
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	118740	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	456173	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	248248	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	426449	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	251802	20.000	ng	-0.01
86) Perylene-d12	15.557	264	225815	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	742208	105.309	ng	0.00
7) Phenol-d6	6.516	99	921872	108.660	ng	-0.02
23) Nitrobenzene-d5	7.457	82	559375	66.865	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	313361	113.733	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1140977	61.674	ng	-0.01
79) Terphenyl-d14	13.010	244	1073528	58.261	ng	0.00
Target Compounds						Qvalue

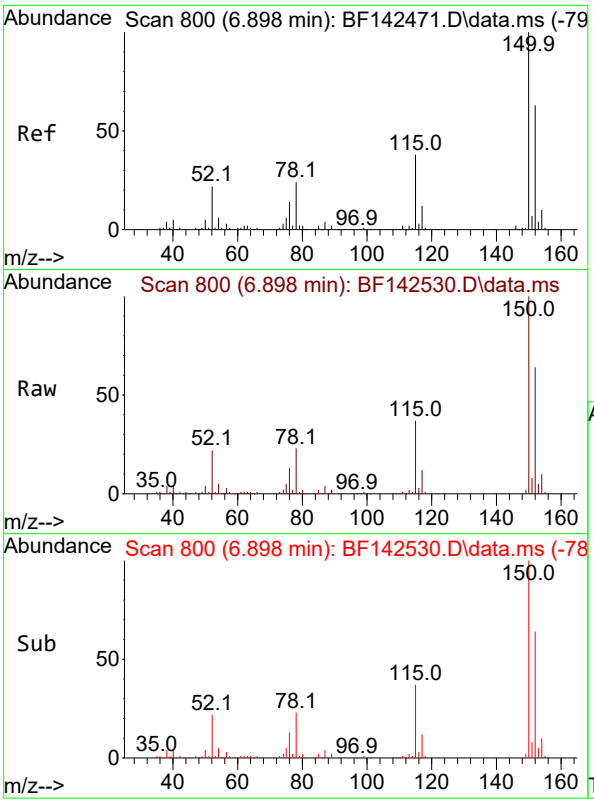
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Time: May 23 14:29:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



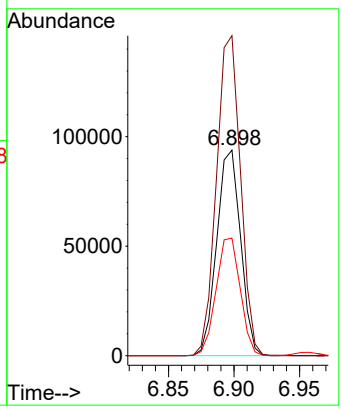


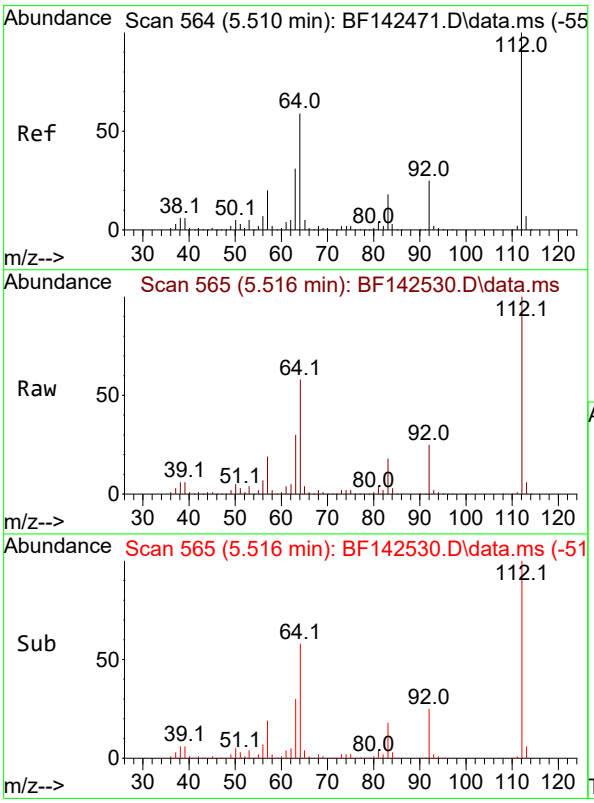
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:152 Resp: 118740

Ion	Ratio	Lower	Upper
152	100		
150	155.6	128.2	192.4
115	57.2	48.3	72.5

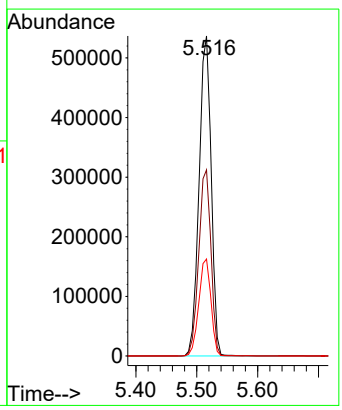


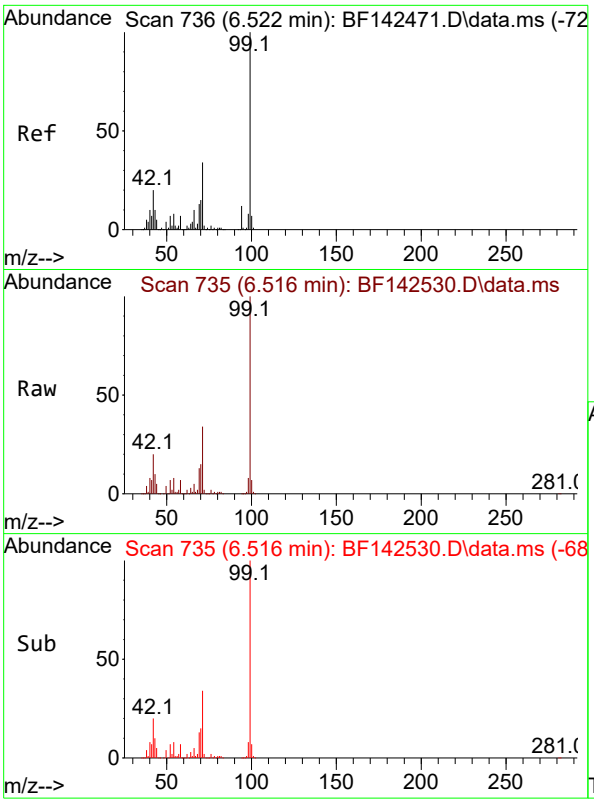


#5
2-Fluorophenol
Concen: 105.309 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:112 Resp: 742208

Ion	Ratio	Lower	Upper
112	100		
64	58.2	47.5	71.3
63	30.3	24.9	37.3



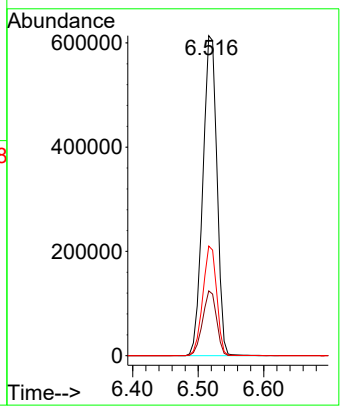


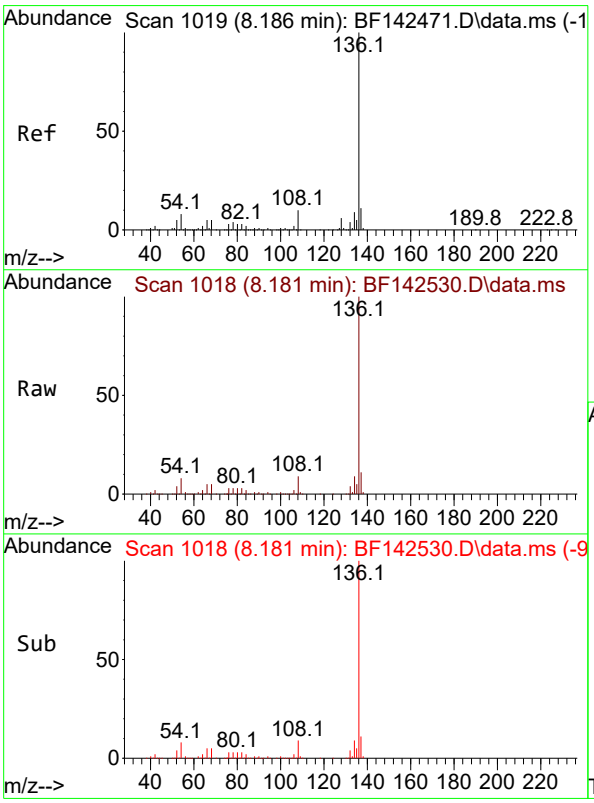
#7
Phenol-d6
Concen: 108.660 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion: 99 Resp: 921872

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.2	24.2
71	34.2	27.3	40.9

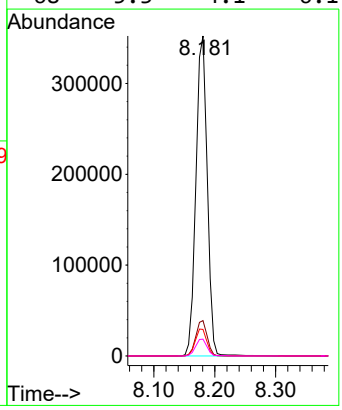


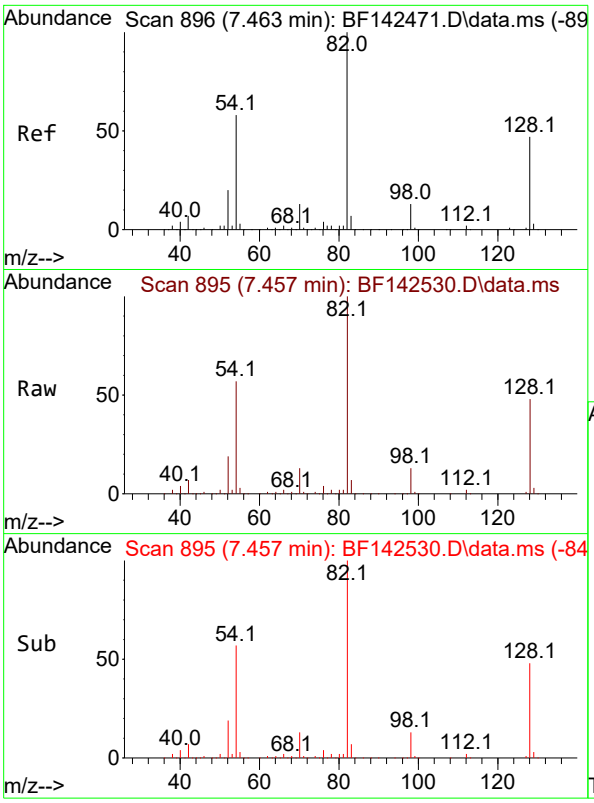


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:136 Resp: 456173

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.3	6.6	10.0
68	5.3	4.1	6.1



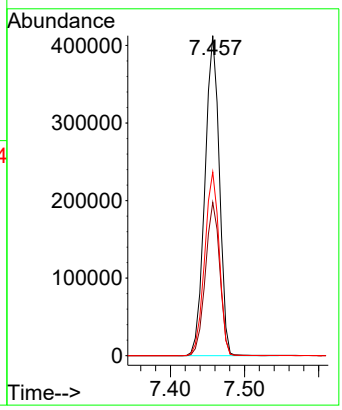


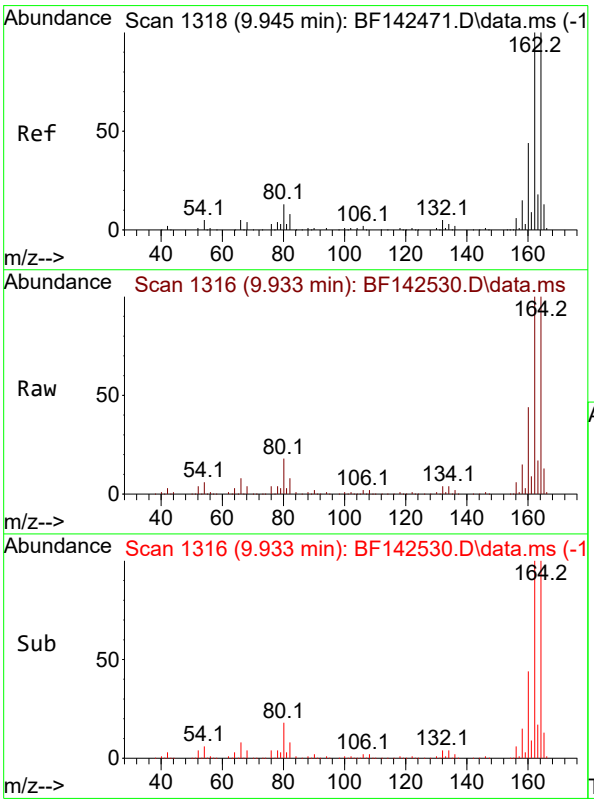
#23
Nitrobenzene-d5
Concen: 66.865 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion: 82 Resp: 559375

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	57.4	46.6	70.0

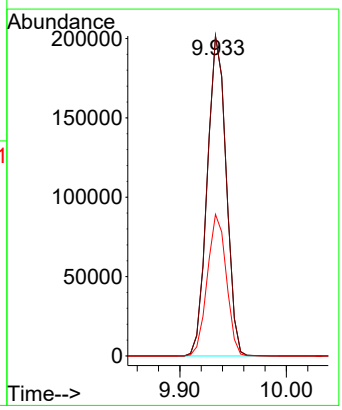


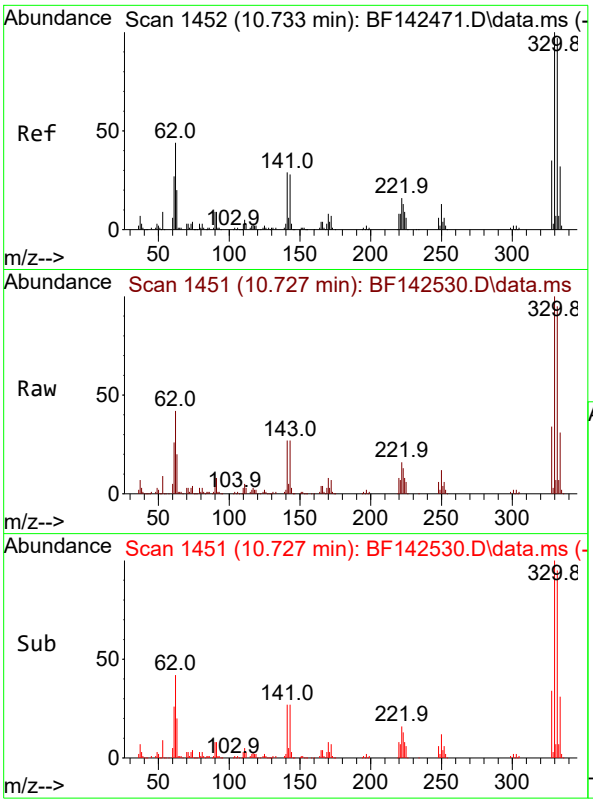


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:164 Resp: 248248

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.2	120.4
160	44.3	35.6	53.4



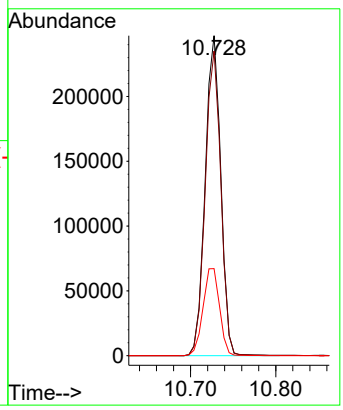


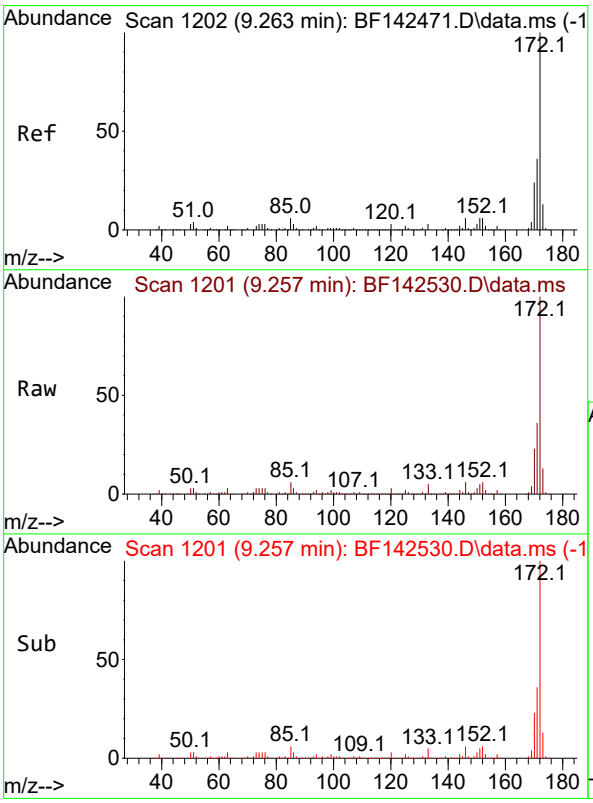
#42
2,4,6-Tribromophenol
Concen: 113.733 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:330 Resp: 313361

Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.6	116.4
141	28.9	24.6	36.8

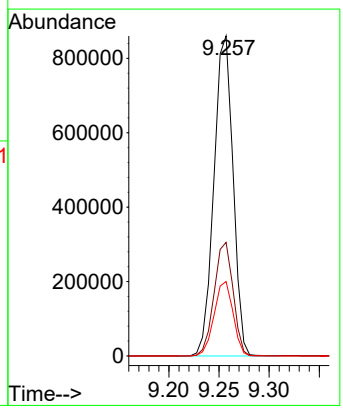


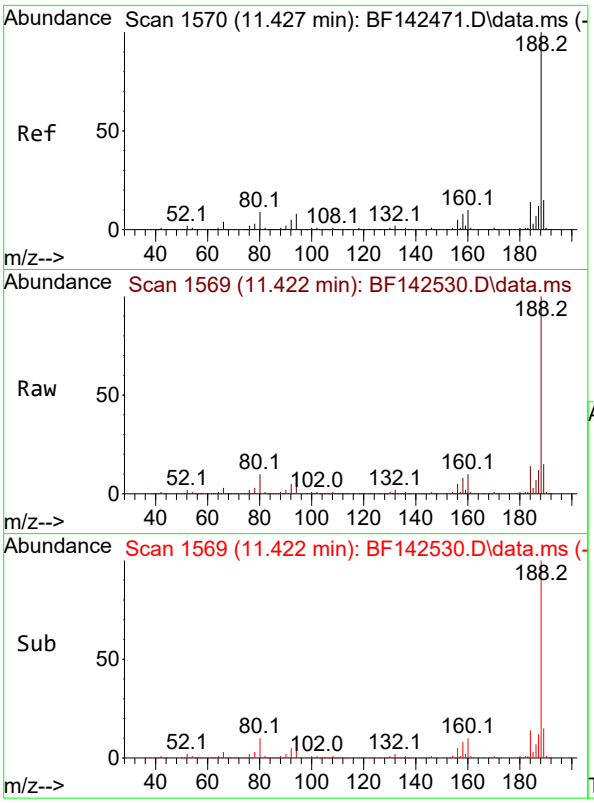


#45
2-Fluorobiphenyl
Concen: 61.674 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:172 Resp: 1140977

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.3	18.9	28.3



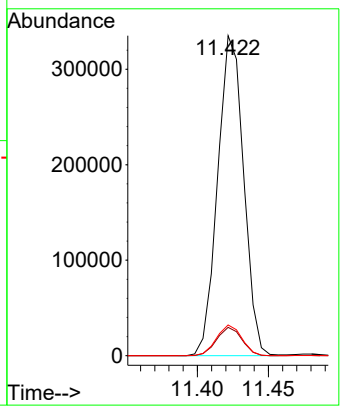


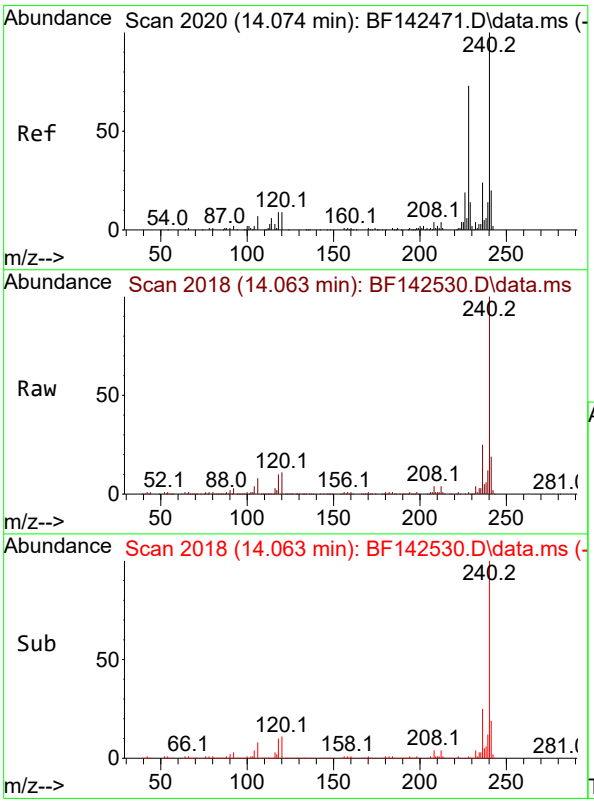
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:188 Resp: 426449

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.6	7.4	11.0

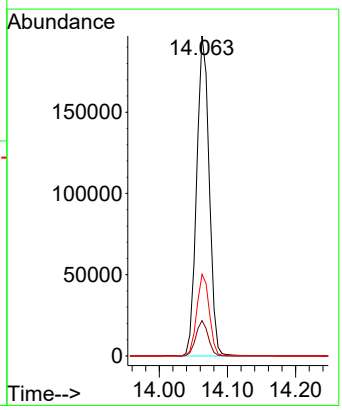


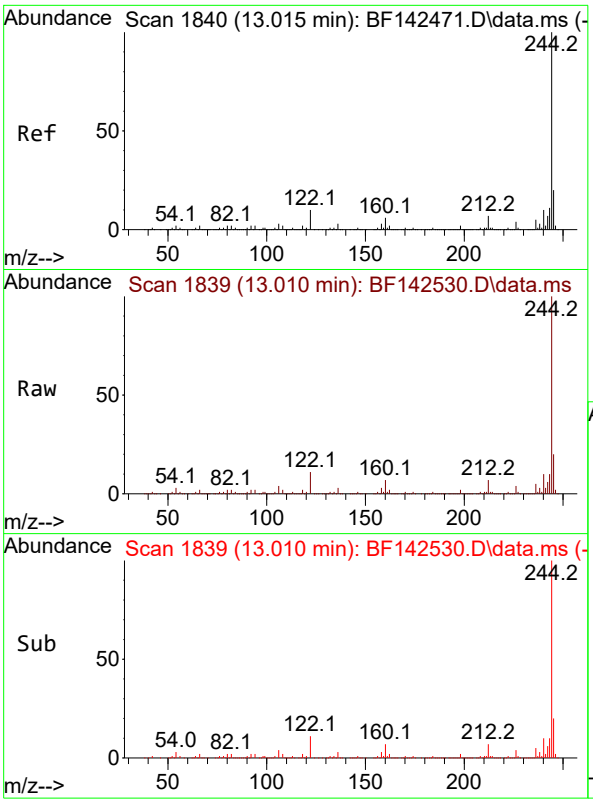


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:240 Resp: 251802

Ion	Ratio	Lower	Upper
240	100		
120	11.0	7.5	11.3
236	25.5	19.6	29.4



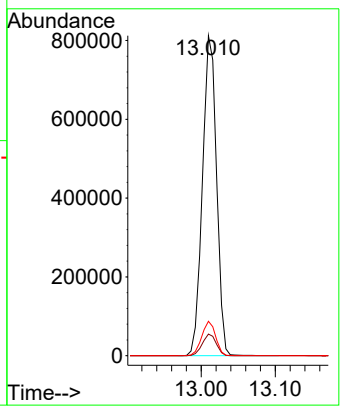


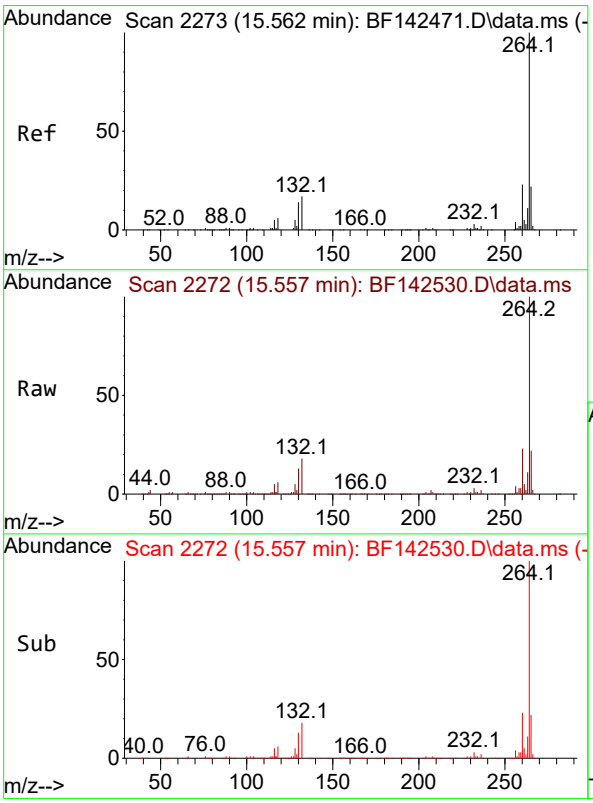
#79
Terphenyl-d14
Concen: 58.261 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:244 Resp: 1073528

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.8	8.2	12.2

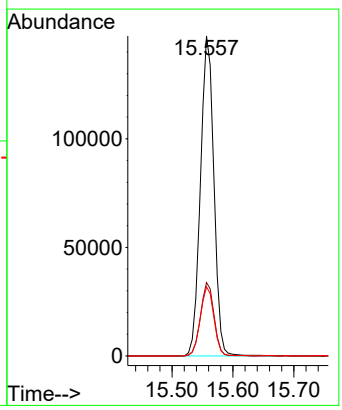




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:264 Resp: 225815

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.6	17.7	26.5



Sample Results: **BF142530.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142530.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.122	488	498	507	rBV	188631	310514	9.62%	1.358%
2	5.516	558	565	570	rBV	1848935	2561546	79.33%	11.202%
3	6.516	729	735	741	rBV	1772247	2667509	82.61%	11.666%
4	6.898	794	800	805	rBV	529254	678983	21.03%	2.969%
5	7.457	888	895	900	rBV	1259761	1706016	52.83%	7.461%
6	7.710	933	938	944	rVB	41642	53036	1.64%	0.232%
7	8.181	1012	1018	1030	rBV	692063	904430	28.01%	3.955%
8	9.257	1194	1201	1206	rBV	2427273	3229078	100.00%	14.121%
9	9.933	1311	1316	1321	rBV	836131	1027413	31.82%	4.493%
10	10.651	1432	1438	1443	rBV	311394	382499	11.85%	1.673%
11	10.728	1445	1451	1456	rBV	1689108	2225719	68.93%	9.734%
12	11.422	1564	1569	1576	rBV	806493	1029277	31.88%	4.501%
13	11.874	1638	1646	1652	rBV	21860	53758	1.66%	0.235%
14	11.945	1652	1658	1672	rVV	447532	699327	21.66%	3.058%
15	12.645	1771	1777	1785	rBV3	16111	42549	1.32%	0.186%
16	12.733	1786	1792	1804	rVV	120829	209221	6.48%	0.915%
17	12.886	1811	1818	1833	rVB3	40291	102443	3.17%	0.448%
18	13.010	1833	1839	1844	rBV	2155410	2827096	87.55%	12.363%
19	13.586	1929	1937	1944	rVB2	51417	101199	3.13%	0.443%
20	13.904	1986	1991	2005	rBV	128244	246533	7.63%	1.078%
21	14.063	2011	2018	2027	rVB	522471	671213	20.79%	2.935%
22	14.163	2029	2035	2041	rVV	45016	72744	2.25%	0.318%
23	14.227	2041	2046	2056	rVB	26418	40671	1.26%	0.178%
24	14.527	2093	2097	2104	rBV	31112	49961	1.55%	0.218%
25	14.645	2112	2117	2123	rBV	34496	61471	1.90%	0.269%
26	14.845	2146	2151	2156	rBV	27142	38834	1.20%	0.170%
27	15.157	2200	2204	2207	rBV	22688	40052	1.24%	0.175%
28	15.192	2208	2210	2220	rVB2	26598	51833	1.61%	0.227%
29	15.557	2266	2272	2286	rVB	391982	631958	19.57%	2.764%
30	15.733	2297	2302	2309	rVB	21238	38980	1.21%	0.170%
31	16.827	2482	2488	2508	rVB	31644	110663	3.43%	0.484%

Sum of corrected areas: 22866526

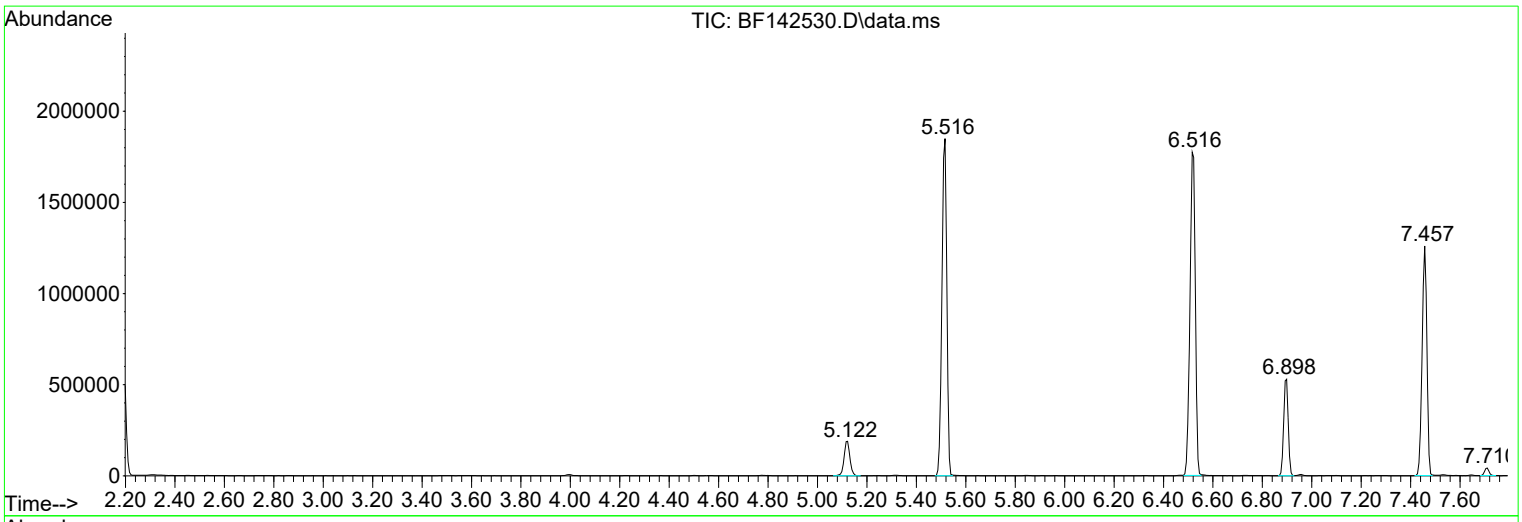
Sample Results: **BF142530.D**

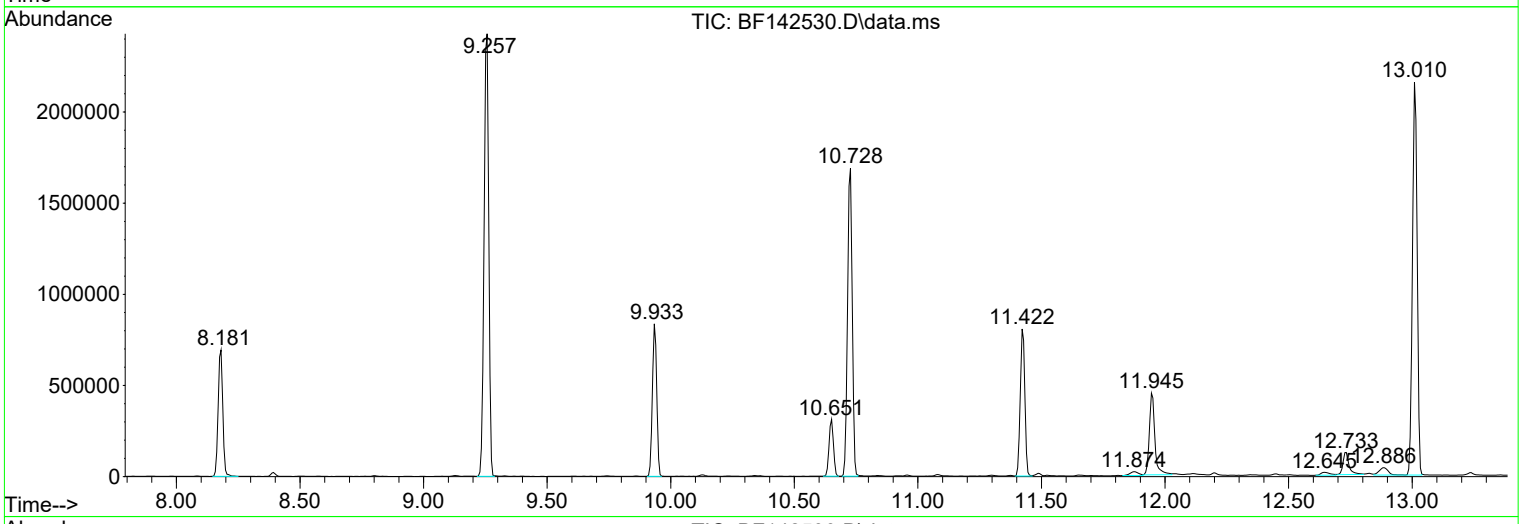
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

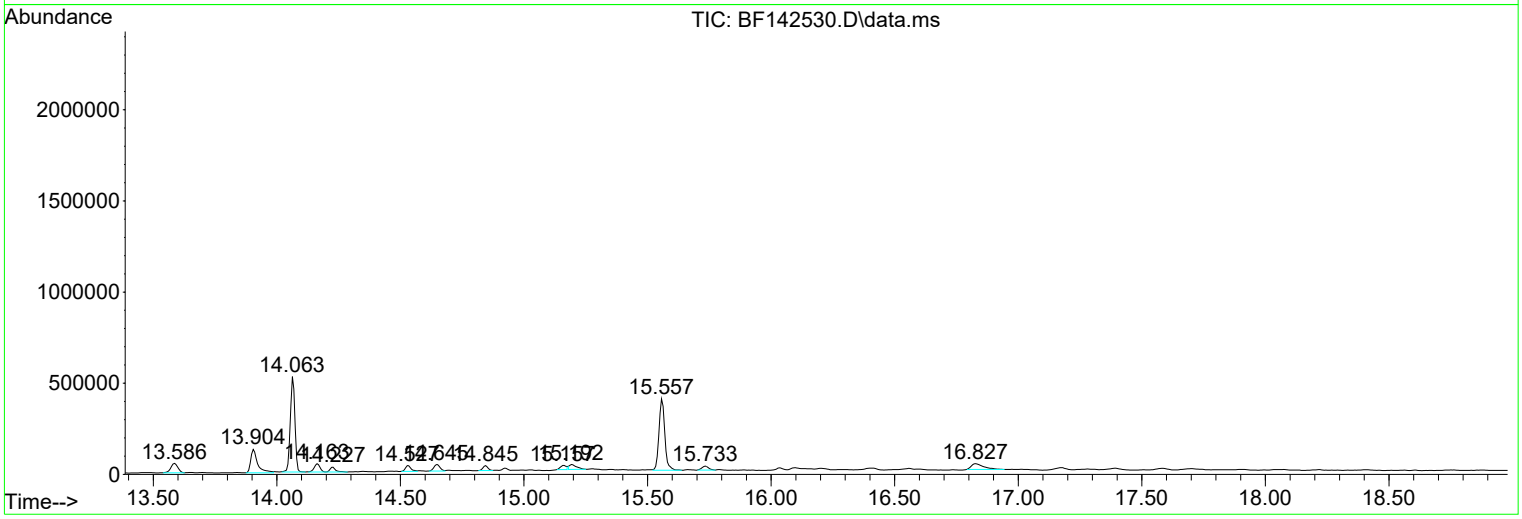
Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

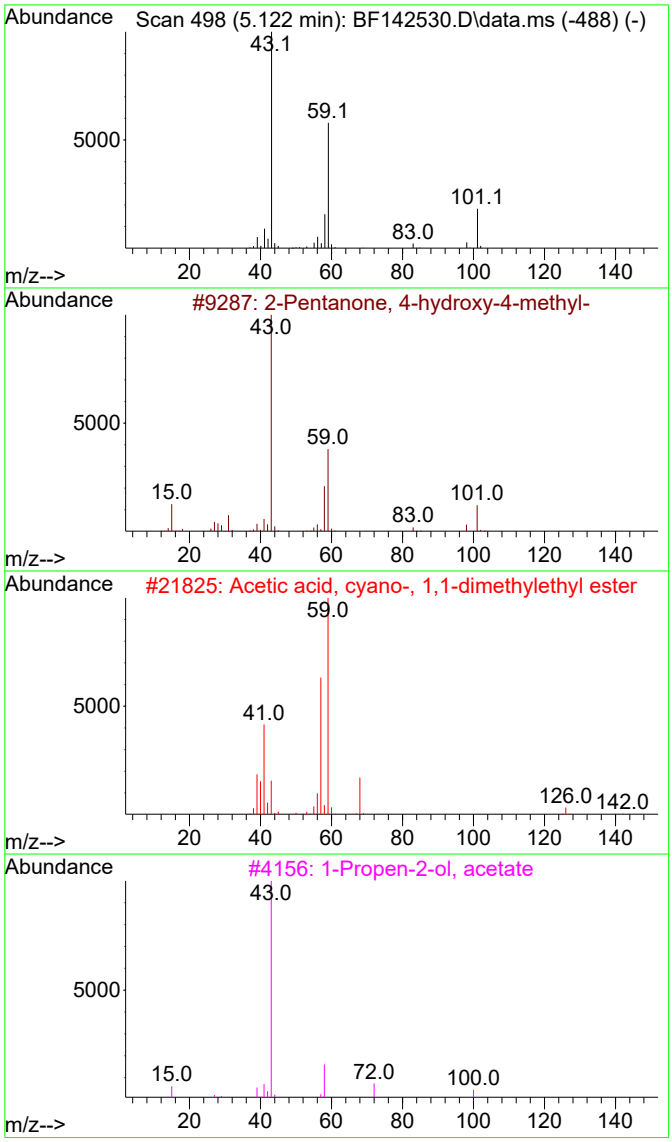
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

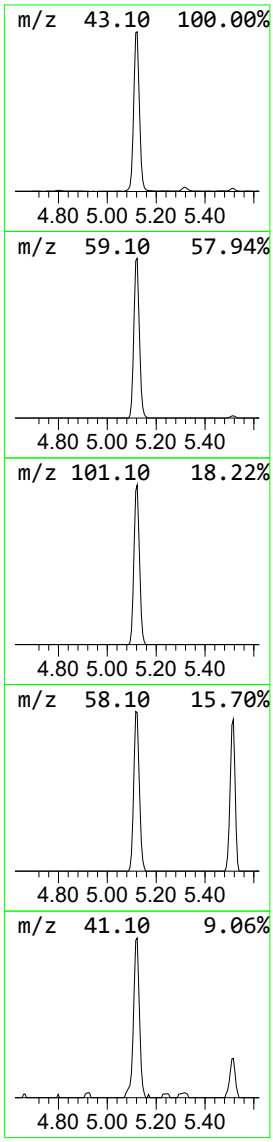
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	9.15 ng	310514	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

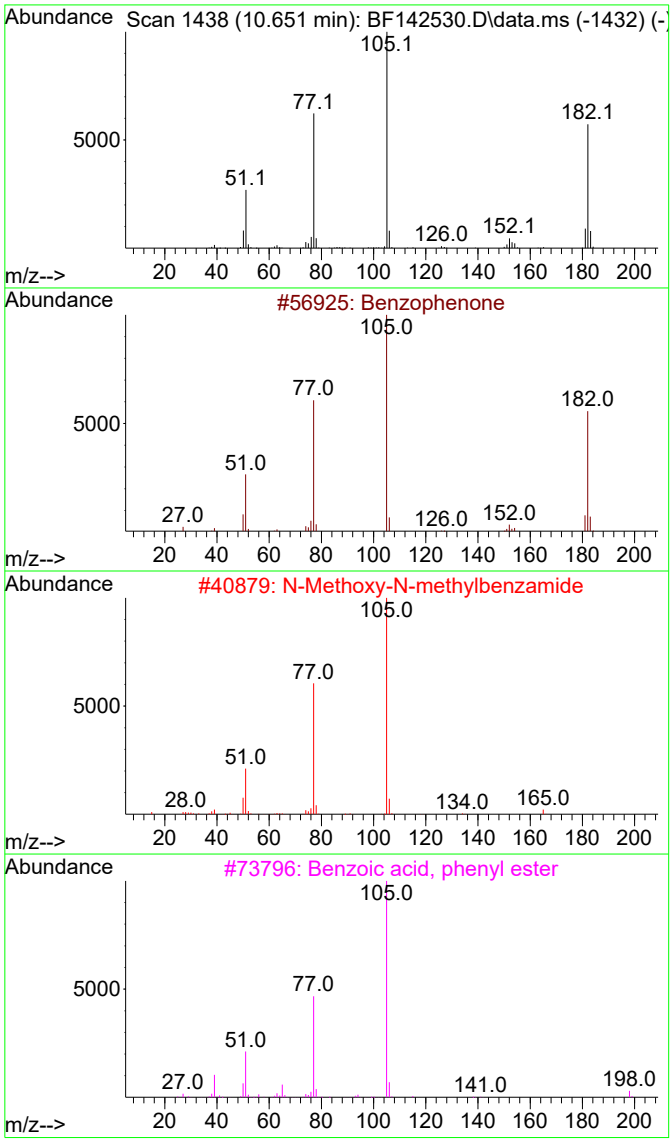
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

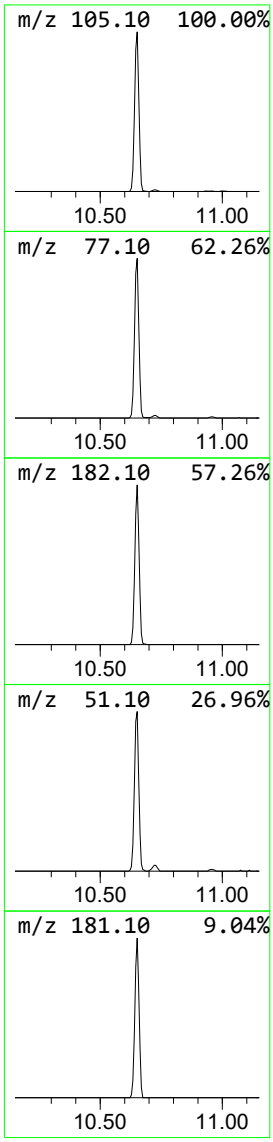
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	7.45 ng	382499	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
3	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
4	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
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Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

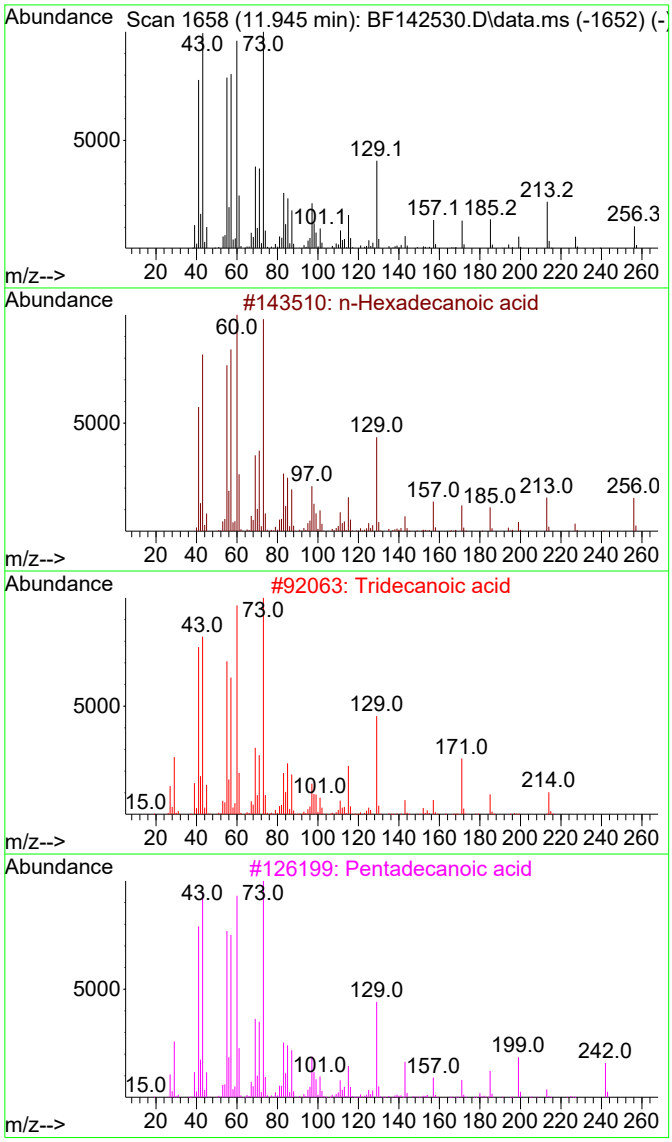
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

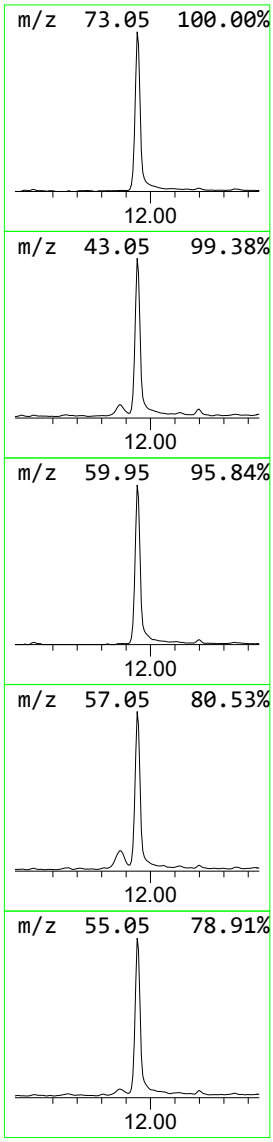
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	13.59 ng	699327	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

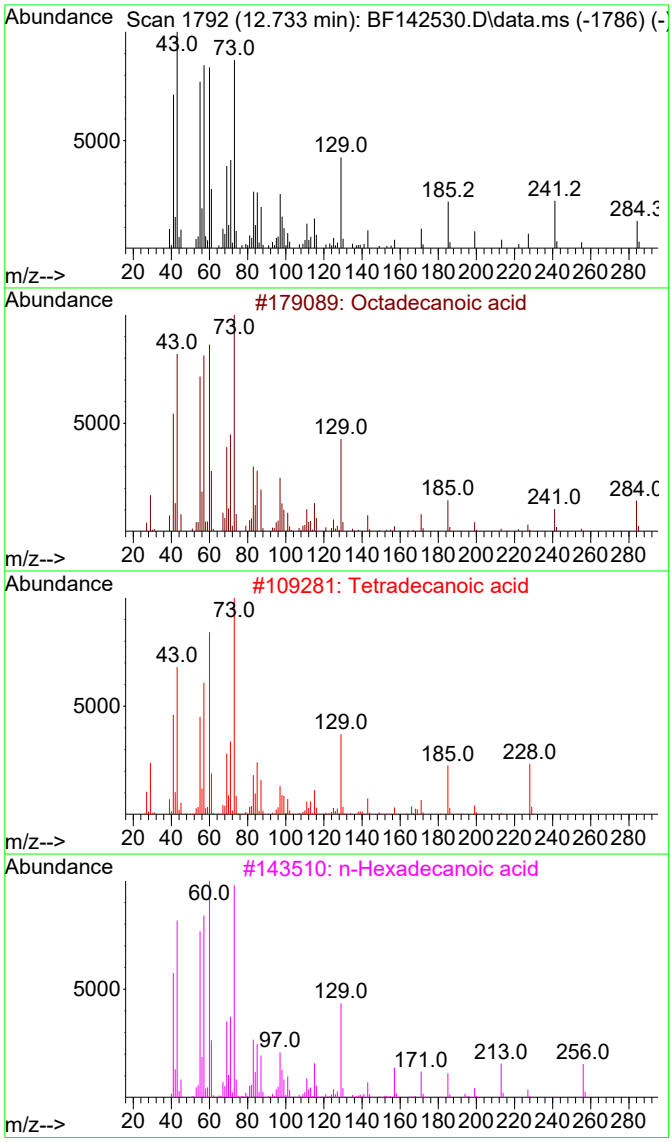
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

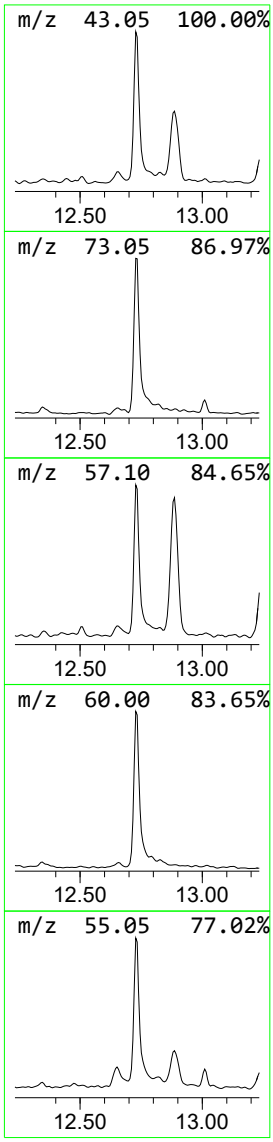
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	4.07 ng	209221	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	74
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	72
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

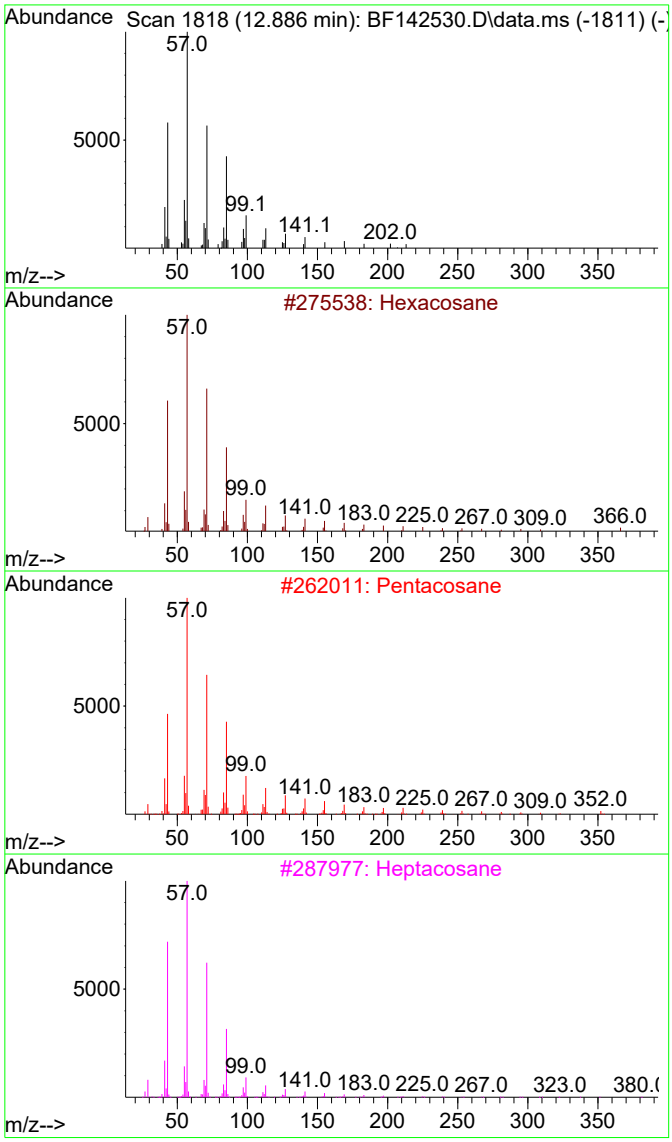
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

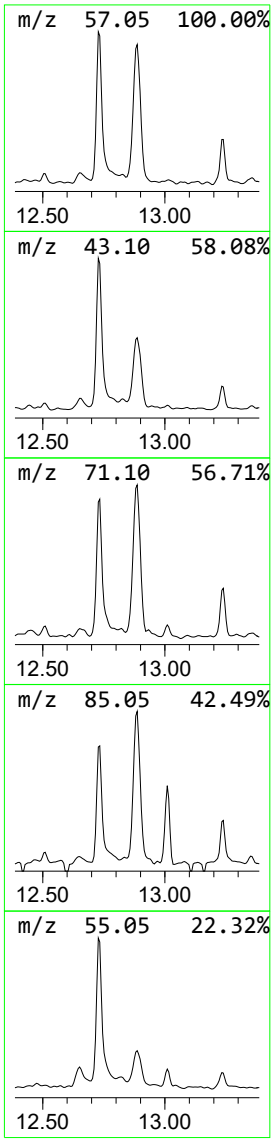
****

Peak Number 5 Hexacosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.886	3.05 ng	102443	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	91
2	Pentacosane	352	C25H52	000629-99-2	91
3	Heptacosane	380	C27H56	000593-49-7	91
4	Octacosane	394	C28H58	000630-02-4	90
5	Heneicosane	296	C21H44	000629-94-7	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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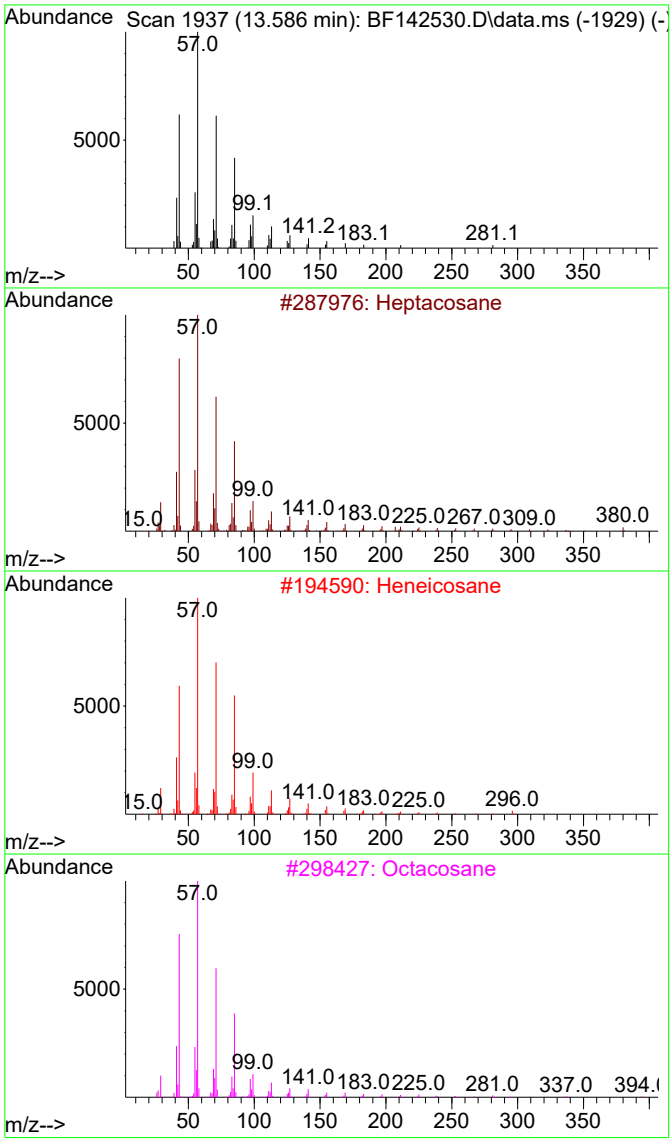
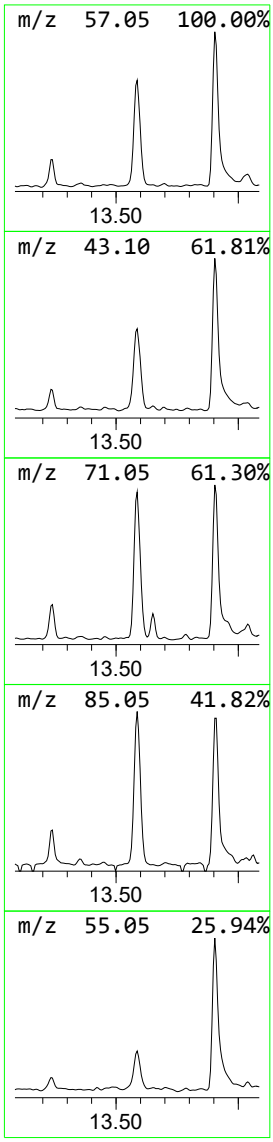
Peak Number 6 Heptacosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.586	3.02 ng	101199	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5	Hexacosane	366	C26H54	000630-01-3	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
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Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

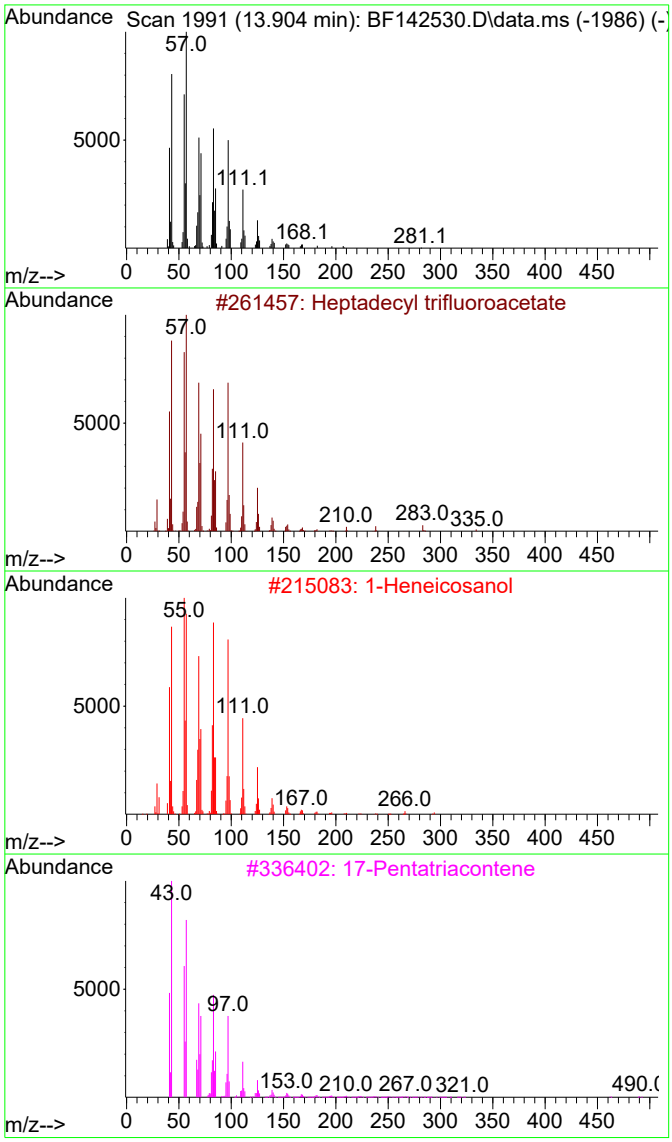
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

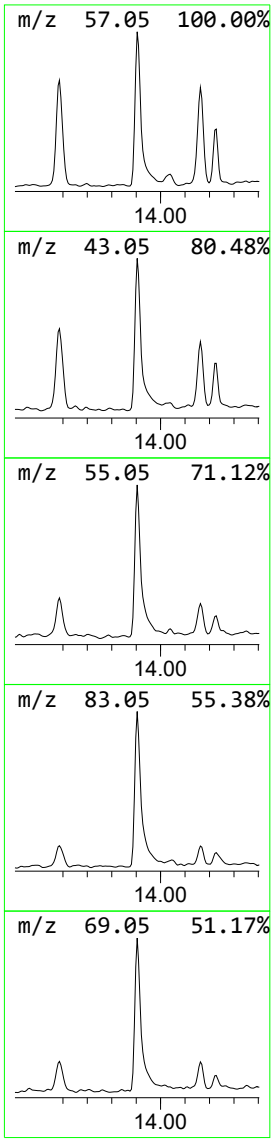
****

Peak Number 7 Heptadecyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	7.35 ng	246533	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
2	1-Heneicosanol	312	C21H44O	015594-90-8	93
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
5	1-Hexacosene	364	C26H52	018835-33-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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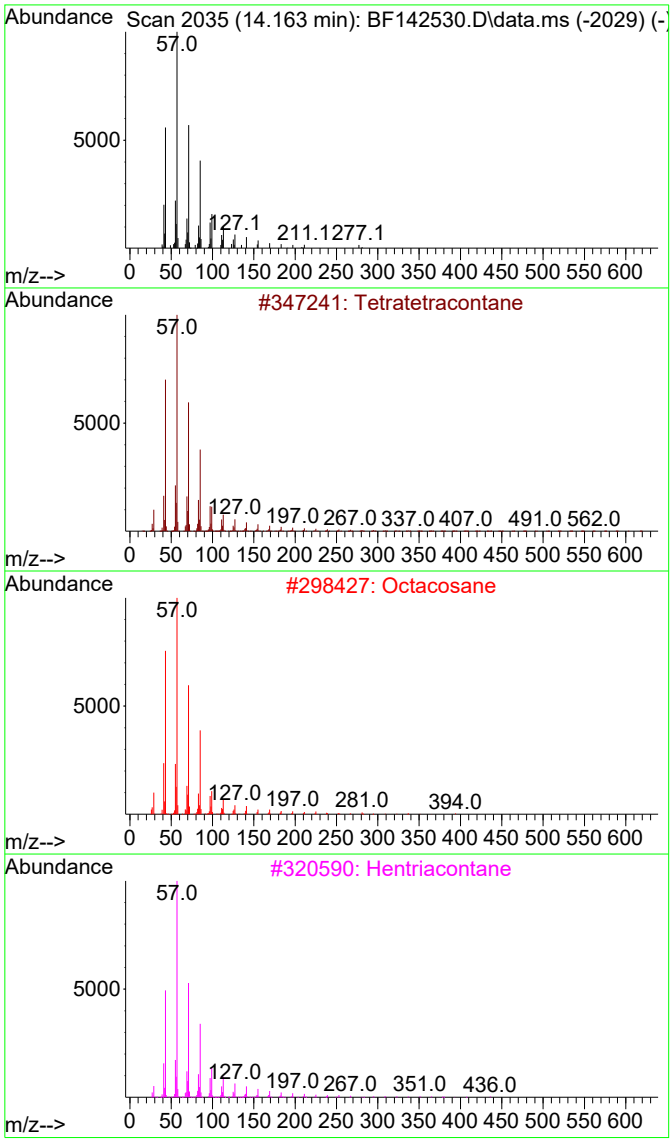
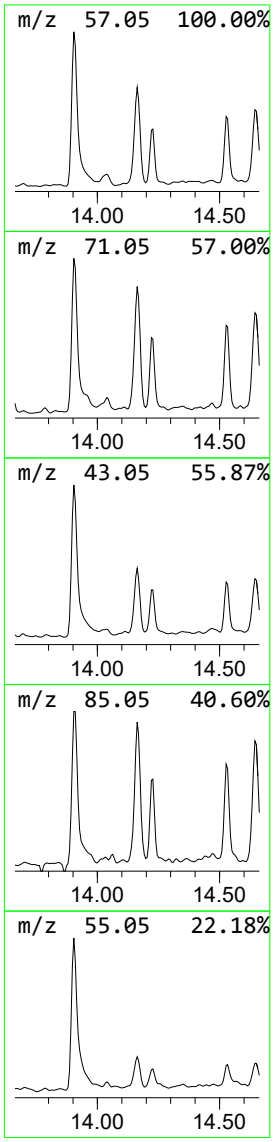
Peak Number 8 Tetratetracontane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.163	2.17 ng	72744	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetratetracontane	619	C44H90	007098-22-8	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Hentriacontane	437	C31H64	000630-04-6	91
4	Heneicosane	296	C21H44	000629-94-7	91
5	Pentacosane	352	C25H52	000629-99-2	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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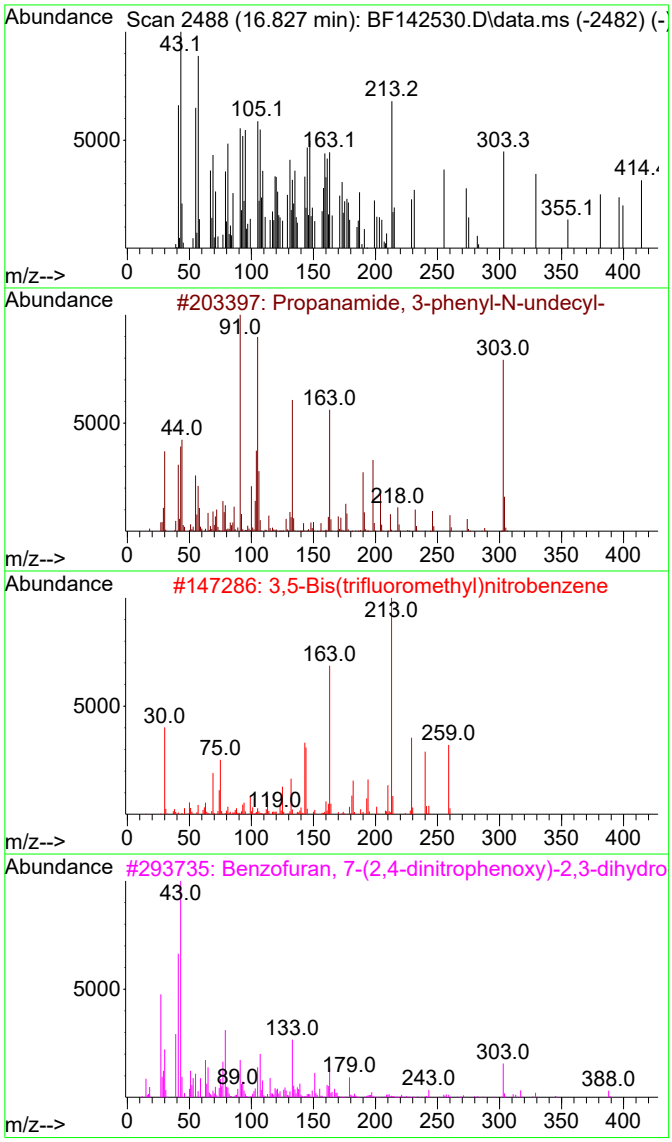
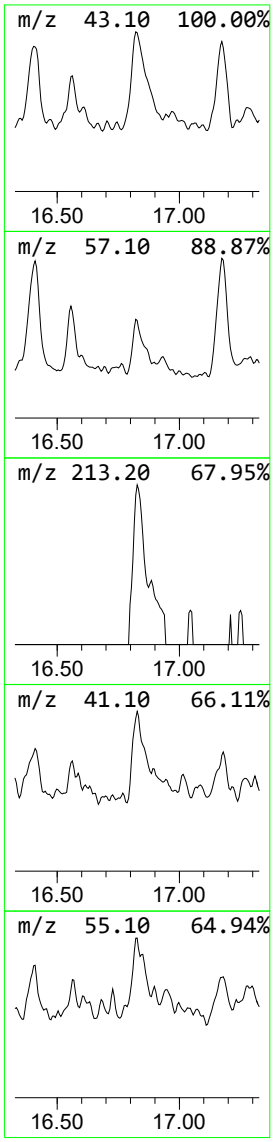
Peak Number 9 unknown16.827 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.827	3.50 ng	110663	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanamide, 3-phenyl-N-undecyl-	303	C20H33NO	1000407-15-8	10
2	3,5-Bis(trifluoromethyl)nitroben...	259	C8H3F6NO2	000328-75-6	10
3	Benzofuran, 7-(2,4-dinitrophenox...	388	C19H20N2O7	062059-48-7	9
4	Sebacic acid, 2,5-dichlorobenzyl...	388	C19H26Cl2O4	1000380-61-0	9
5	5.alpha.-Stigmast-9(11)-en-3.bet...	414	C29H50O	077794-81-1	7





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.122	9.2	ng	310514	1	6.898	678983	20.0
Benzophenone	10.651	7.5	ng	382499	3	9.933	1027410	20.0
n-Hexadecanoic ...	11.945	13.6	ng	699327	4	11.422	1029280	20.0
Octadecanoic acid	12.733	4.1	ng	209221	4	11.422	1029280	20.0
Hexacosane	12.886	3.0	ng	102443	5	14.063	671213	20.0
Heptacosane	13.586	3.0	ng	101199	5	14.063	671213	20.0
Heptadecyl trif...	13.904	7.3	ng	246533	5	14.063	671213	20.0
Tetratetracontane	14.163	2.2	ng	72744	5	14.063	671213	20.0
unknown16.827	16.827	3.5	ng	110663	6	15.557	631958	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Quant Time: May 23 12:05:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

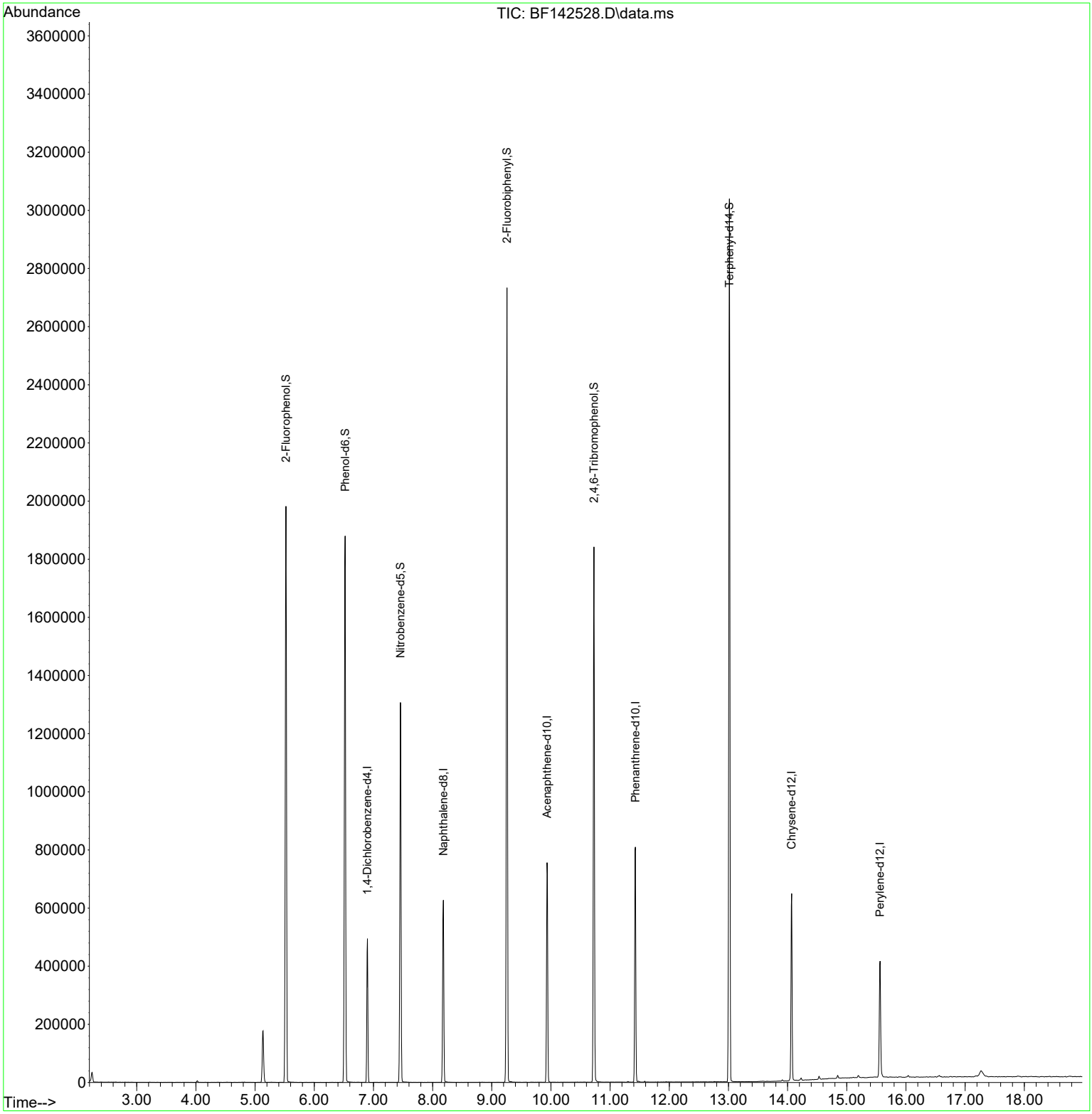
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	108646	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	416736	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	234758	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	439276	20.000	ng	0.00
76) Chrysene-d12	14.069	240	317833	20.000	ng	0.00
86) Perylene-d12	15.563	264	240419	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	794724	123.237	ng	0.00
7) Phenol-d6	6.522	99	955076	123.033	ng	-0.01
23) Nitrobenzene-d5	7.457	82	588896	77.055	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	339357	130.246	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1288490	73.649	ng	-0.01
79) Terphenyl-d14	13.016	244	1527119	65.660	ng	0.00
Target Compounds						Qvalue

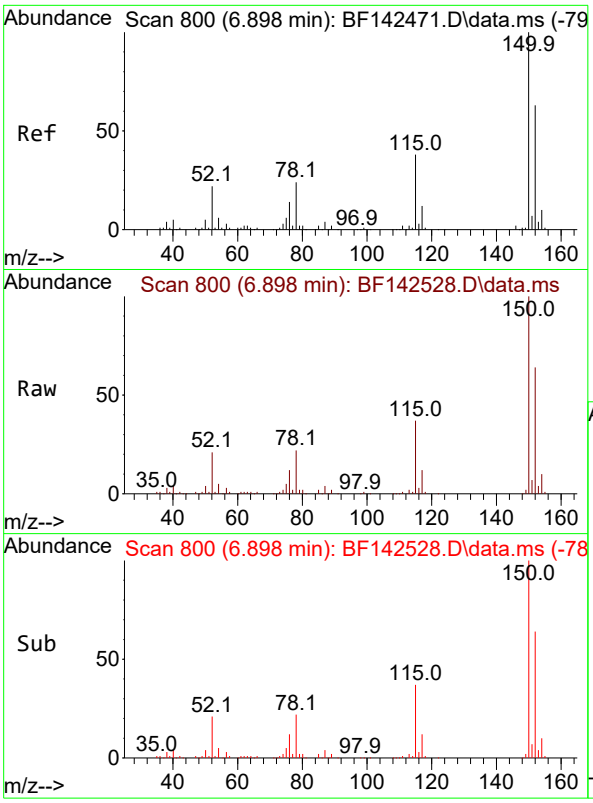
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Quant Time: May 23 12:05:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



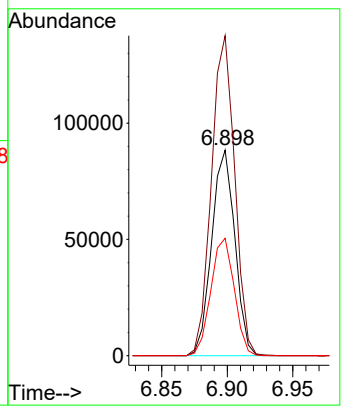


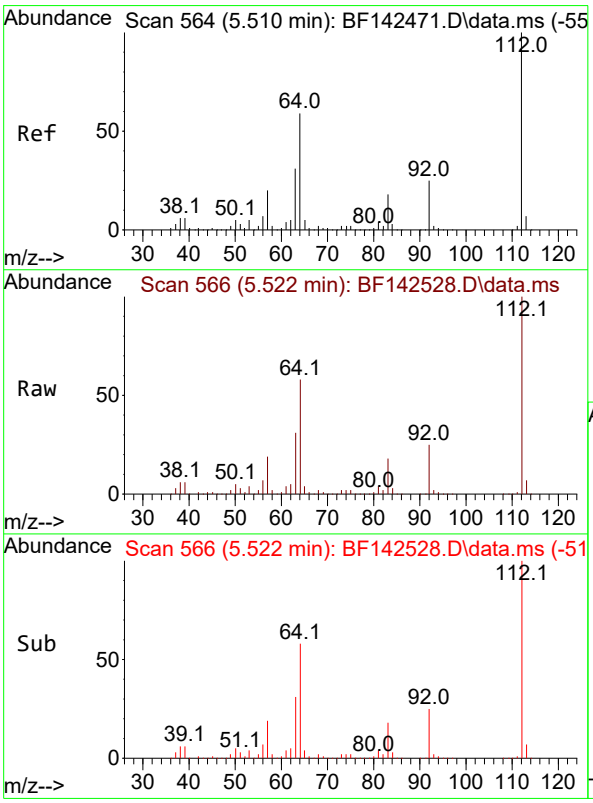
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:152 Resp: 108646

Ion	Ratio	Lower	Upper
152	100		
150	155.6	128.2	192.4
115	57.1	48.3	72.5

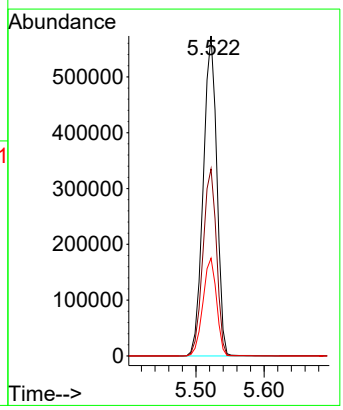


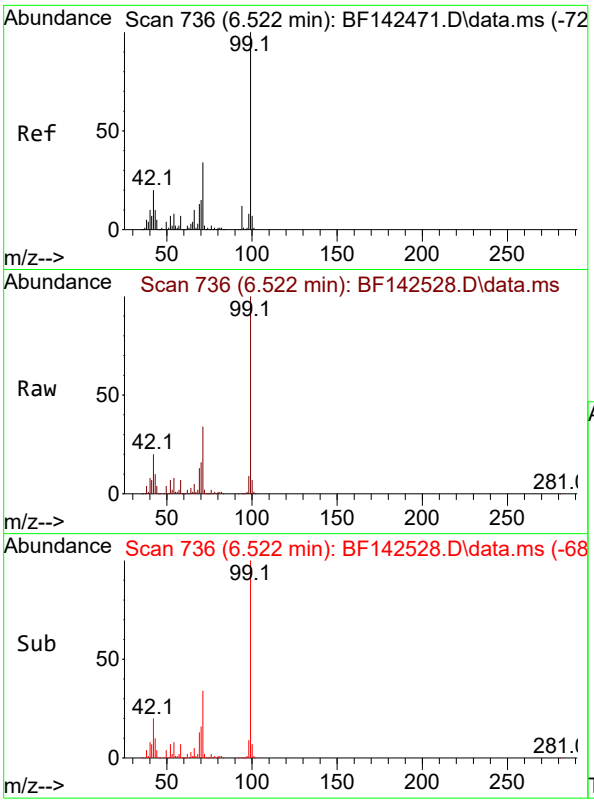


#5
2-Fluorophenol
Concen: 123.237 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:112 Resp: 794724

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.5	71.3
63	30.5	24.9	37.3



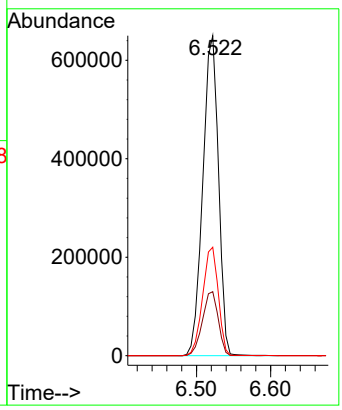


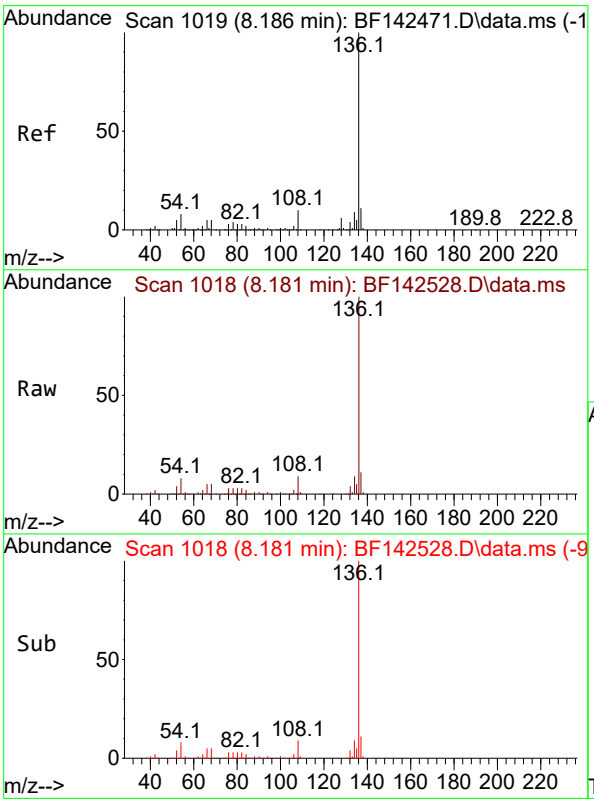
#7
Phenol-d6
Concen: 123.033 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion: 99 Resp: 955076

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.9	27.3	40.9

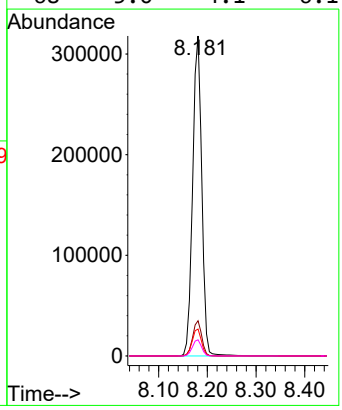




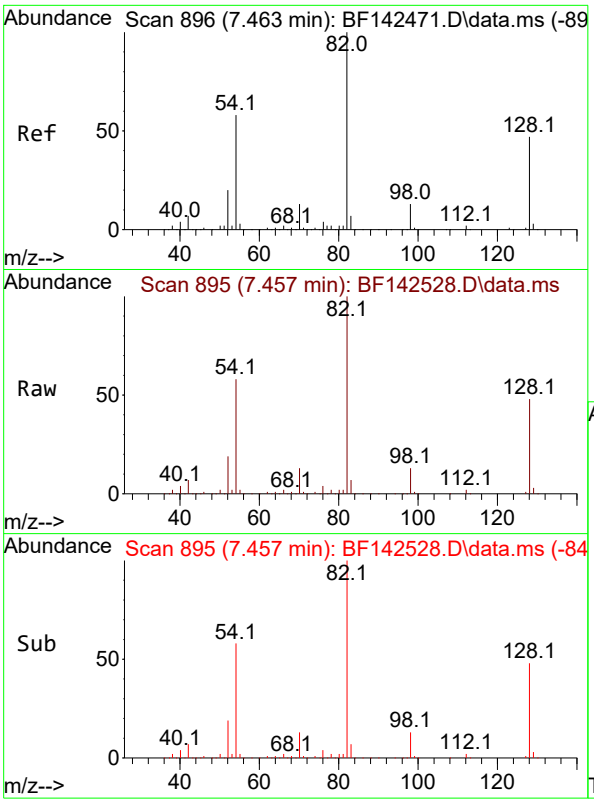
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:136 Resp: 416736

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.4	6.6	10.0
68	5.0	4.1	6.1



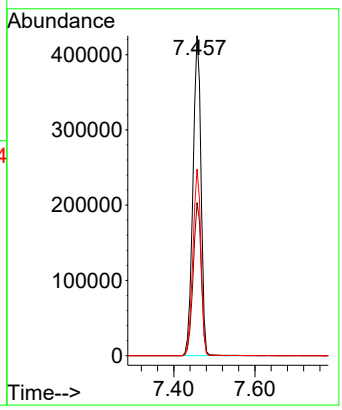
Instrument :
BNA_F
ClientSampleId :
PB168126BL

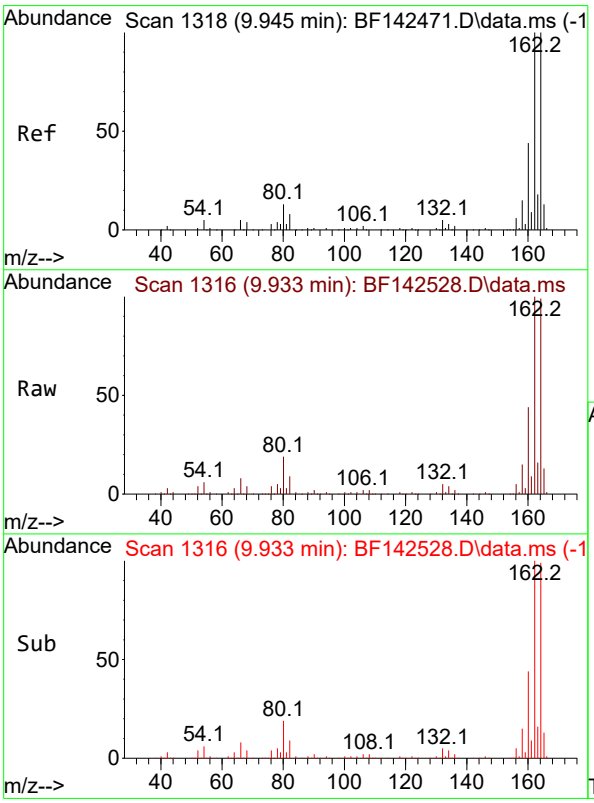


#23
Nitrobenzene-d5
Concen: 77.055 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion: 82 Resp: 588896

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	58.2	46.6	70.0

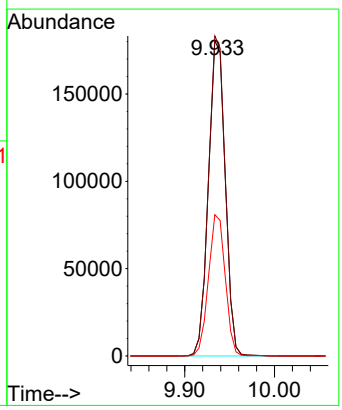


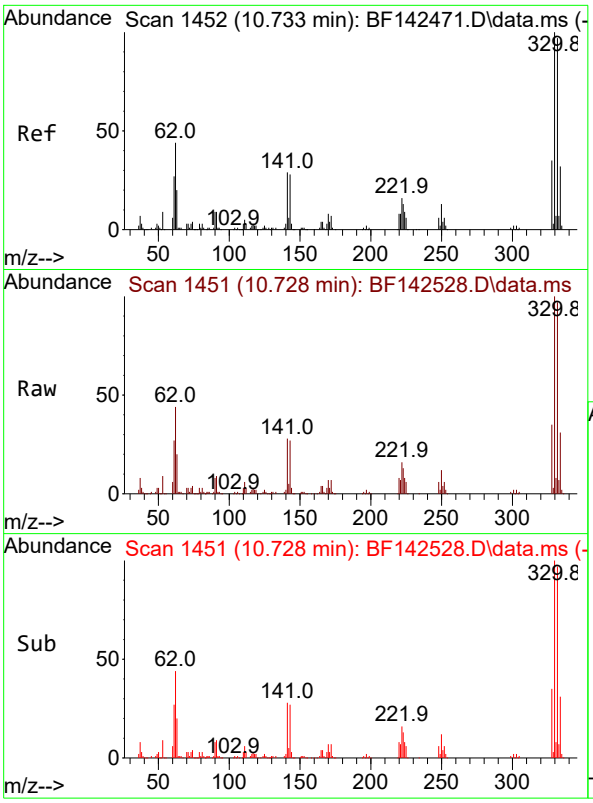


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:164 Resp: 234758

Ion	Ratio	Lower	Upper
164	100		
162	101.5	80.2	120.4
160	44.8	35.6	53.4



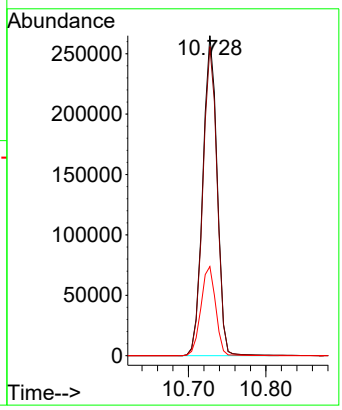


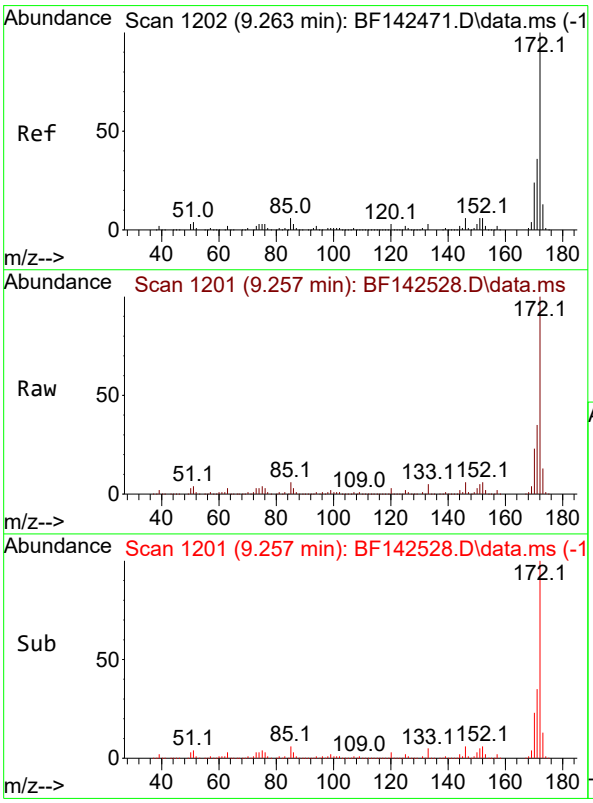
#42
2,4,6-Tribromophenol
Concen: 130.246 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:330 Resp: 339357

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.6	116.4
141	28.7	24.6	36.8

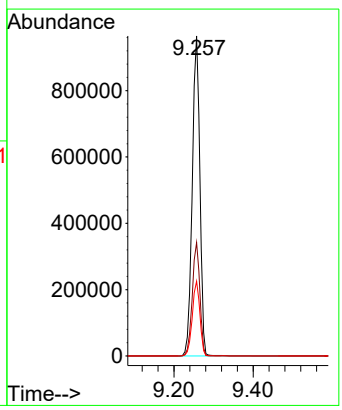


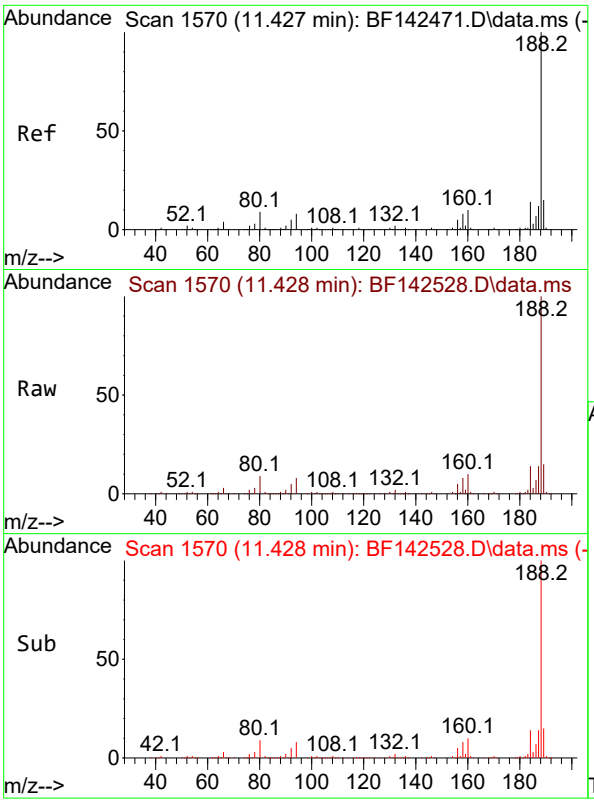


#45
2-Fluorobiphenyl
Concen: 73.649 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:172 Resp: 1288490

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.4	18.9	28.3



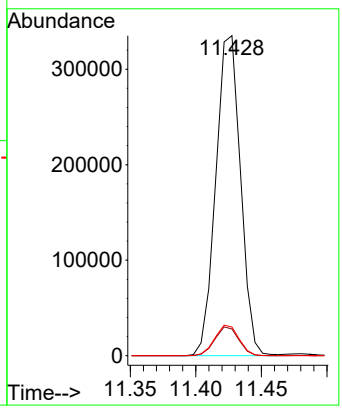


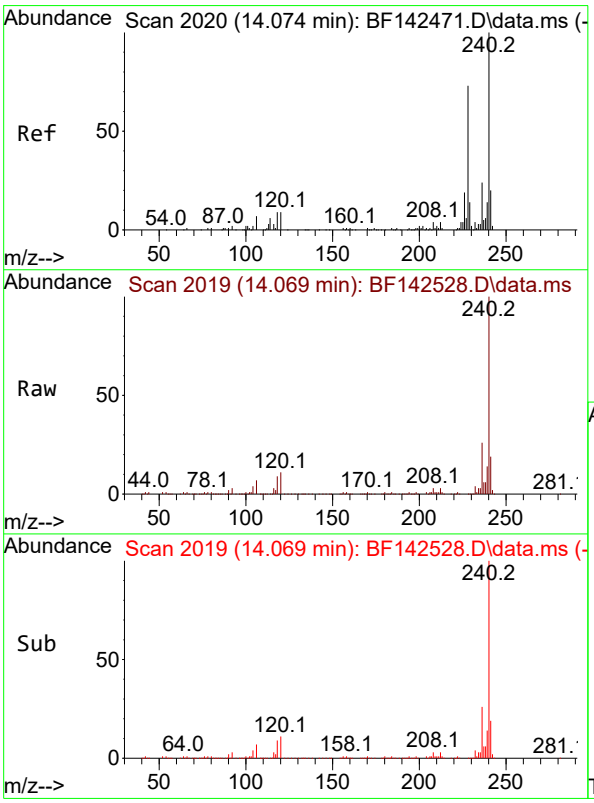
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:188 Resp: 439276

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	8.9	7.4	11.0

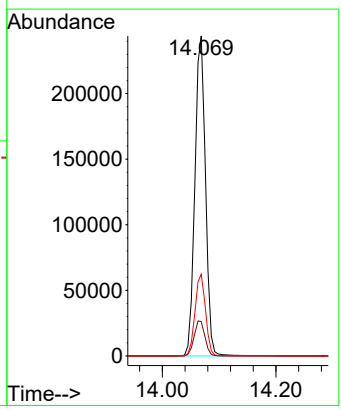


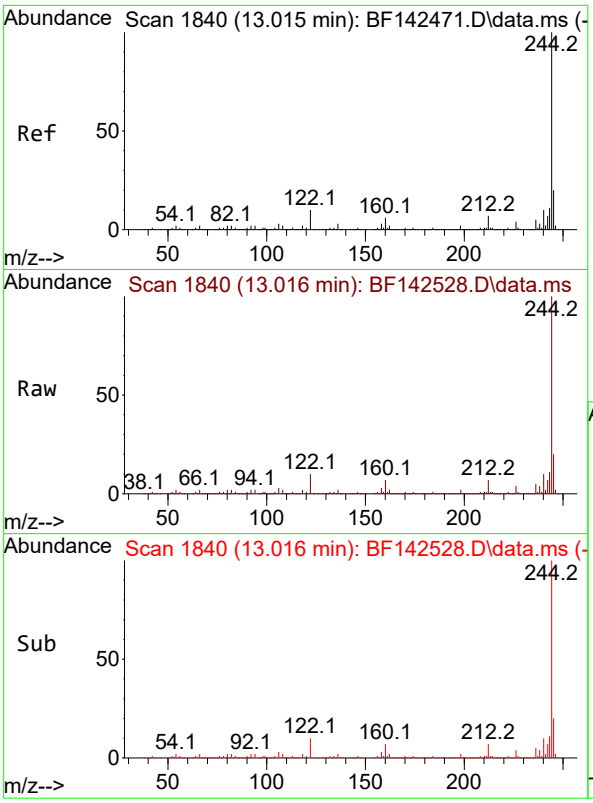


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:240 Resp: 317833

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	25.6	19.6	29.4



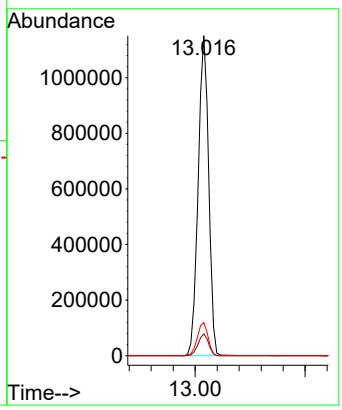


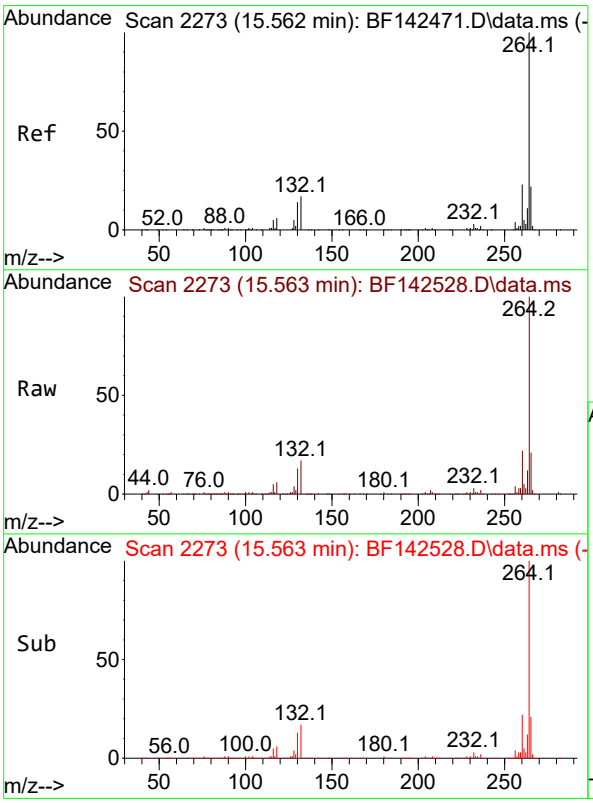
#79
Terphenyl-d14
Concen: 65.660 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:244 Resp: 1527119

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.4	8.2	12.2

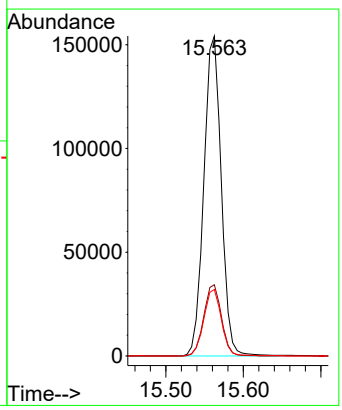




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:264 Resp: 240419

Ion	Ratio	Lower	Upper
264	100		
260	22.3	18.6	28.0
265	20.8	17.7	26.5



Sample Results: **BF142528.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142528.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	3	9	15	rVB	33339	57703	1.43%	0.255%
2	5.134	494	500	509	rVB	177060	288871	7.18%	1.277%
3	5.522	559	566	571	rBV	1981514	2744552	68.22%	12.131%
4	6.522	729	736	741	rBV	1879489	2757777	68.54%	12.189%
5	6.898	795	800	805	rBV	493794	611449	15.20%	2.703%
6	7.457	888	895	900	rBV	1306680	1802470	44.80%	7.967%
7	8.181	1012	1018	1025	rBV	626505	815129	20.26%	3.603%
8	9.257	1194	1201	1206	rBV	2732957	3620208	89.98%	16.001%
9	9.933	1311	1316	1322	rBV	755112	969338	24.09%	4.284%
10	10.728	1445	1451	1456	rBV	1840980	2386330	59.31%	10.548%
11	11.428	1564	1570	1575	rBV	808526	1056562	26.26%	4.670%
12	13.016	1834	1840	1845	rBV	3037241	4023342	100.00%	17.783%
13	14.069	2010	2019	2028	rBV	644131	854057	21.23%	3.775%
14	15.563	2266	2273	2284	rBV	399073	636646	15.82%	2.814%

Sum of corrected areas: 22624434

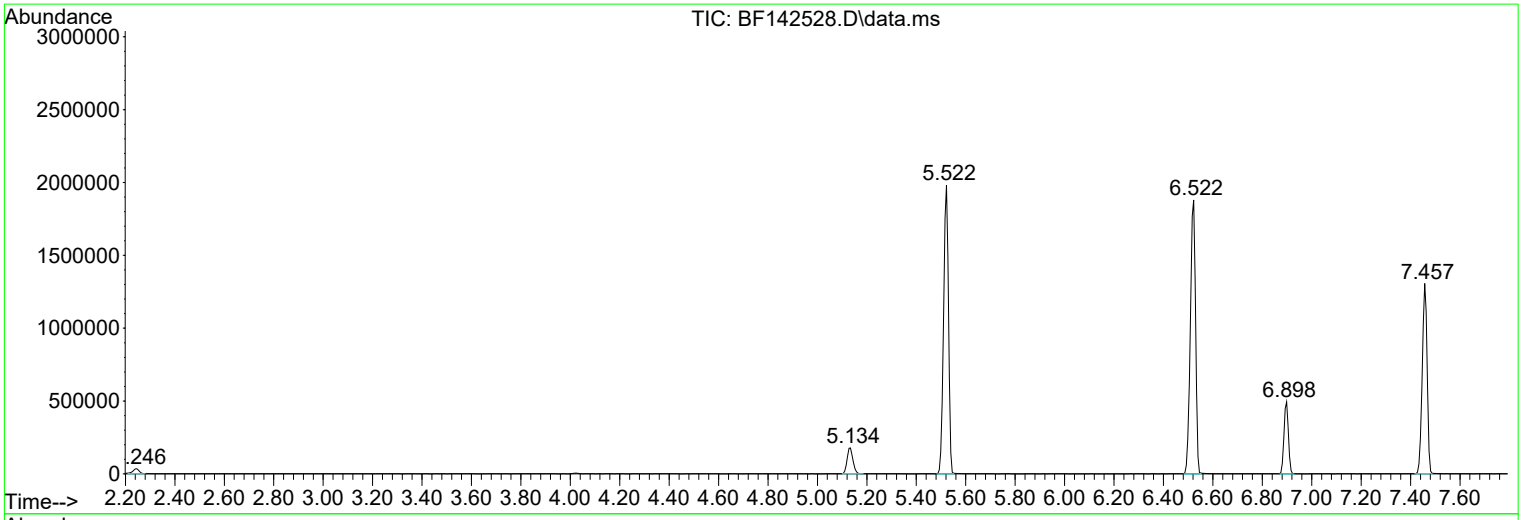
Sample Results: **BF142528.D**

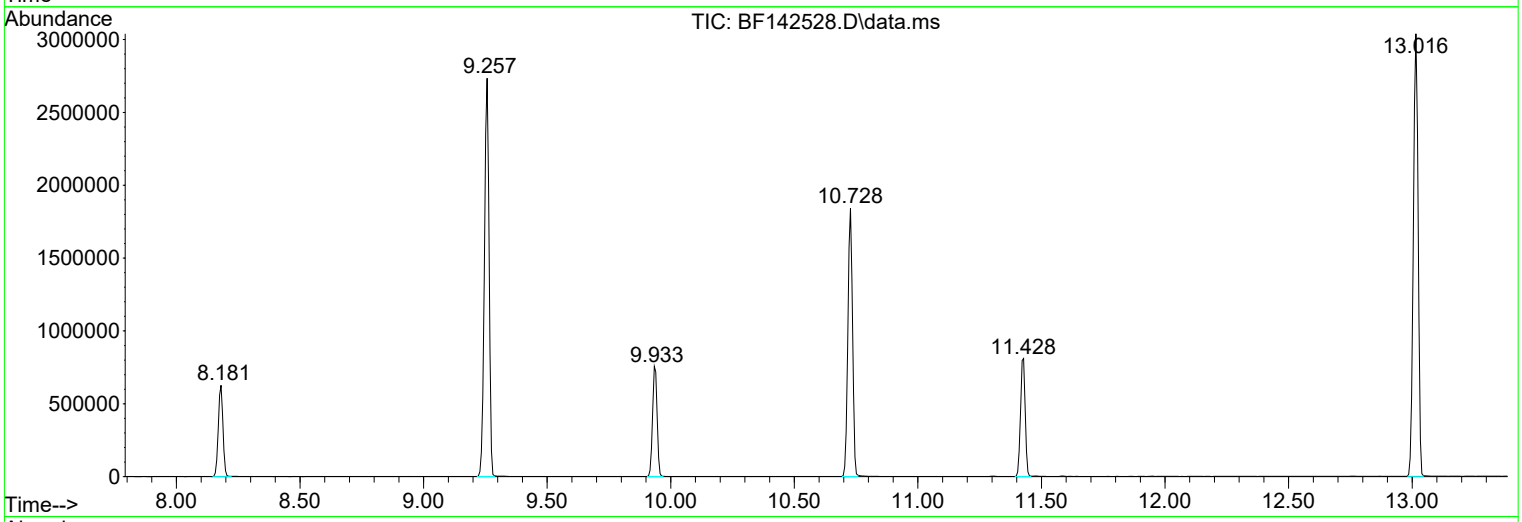
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

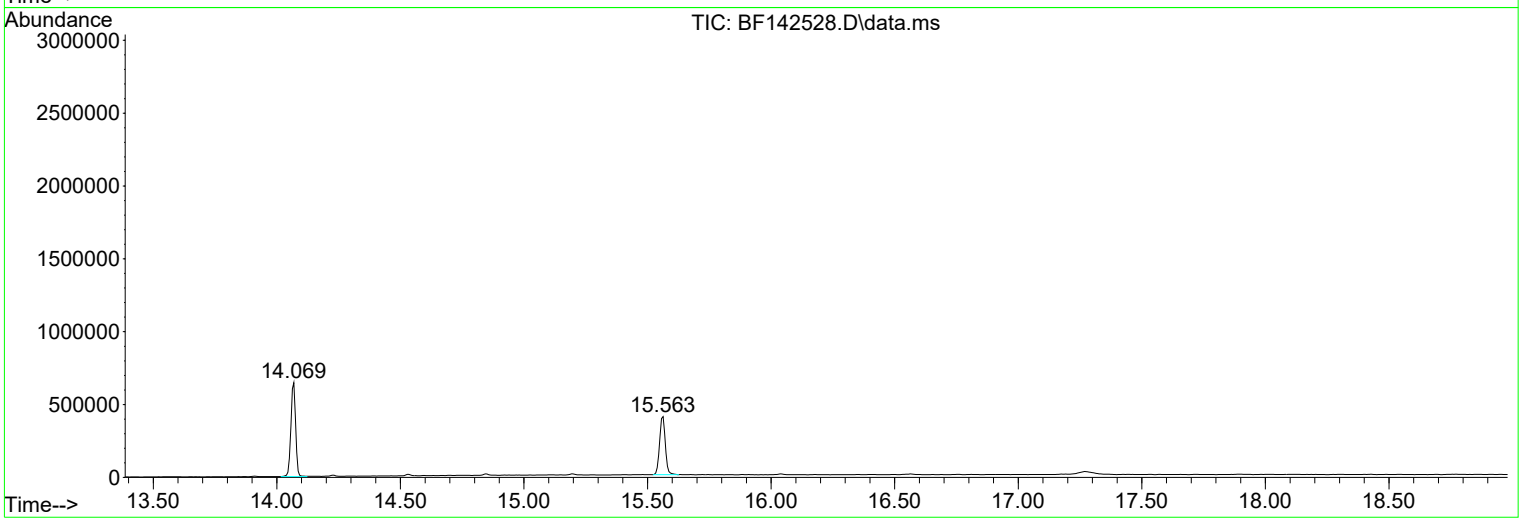
Instrument :
BNA_F
ClientSampleId :
PB168126BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

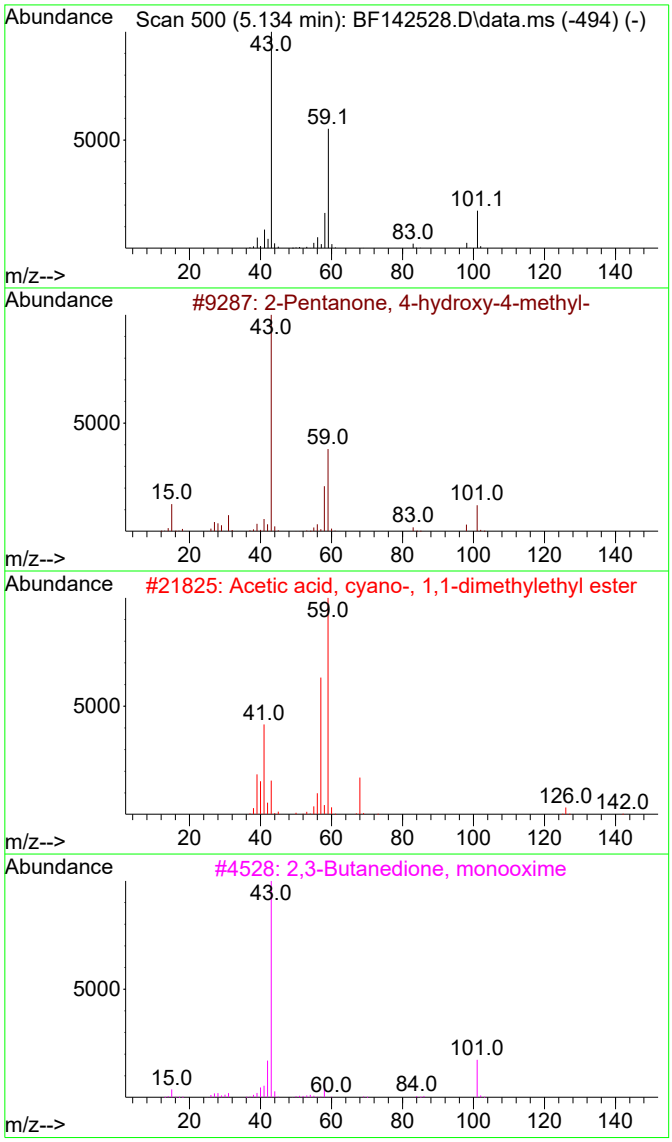
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

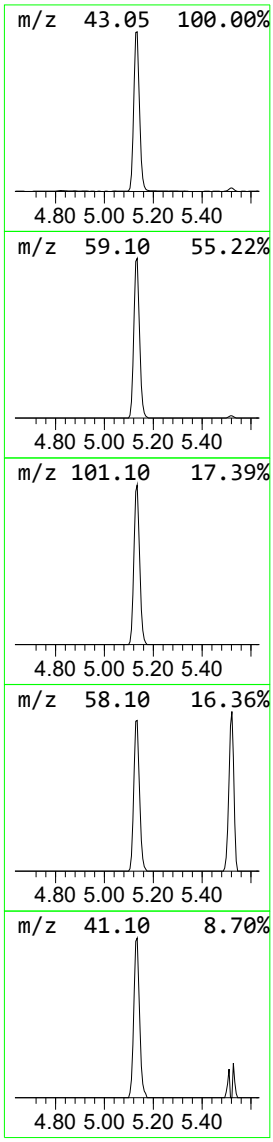
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	9.45 ng	288871	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Ethanol, pentamethyl-	116	C7H16O	000594-83-2	9





Sample Results: **BF142528.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.134	9.4	ng	288871	1	6.898	611449	20.0

Sample Results: **BF142529.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142529.D
Acq On : 23 May 2025 12:10
Operator : RC/JU
Sample : PB168126BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 12:54:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168126BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.899	152	113674	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	445507	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	254111	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	449715	20.000	ng	0.00
76) Chrysene-d12	14.075	240	246622	20.000	ng	0.00
86) Perylene-d12	15.563	264	234935	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	807956	119.747	ng	0.00
7) Phenol-d6	6.528	99	994584	122.455	ng	0.00
23) Nitrobenzene-d5	7.463	82	606849	74.277	ng	-0.01
42) 2,4,6-Tribromophenol	10.734	330	349569	123.947	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1324753	69.955	ng	-0.01
79) Terphenyl-d14	13.016	244	1342706	74.400	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	98572	36.509	ng	98
3) Pyridine	3.516	79	276280	40.183	ng	100
4) n-Nitrosodimethylamine	3.475	42	157783	44.198	ng	97
6) Aniline	6.563	93	351274	32.166	ng	99
8) 2-Chlorophenol	6.681	128	325414	44.279	ng	98
9) Benzaldehyde	6.446	77	187401	38.362	ng	97
10) Phenol	6.540	94	397040	43.445	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	290734	44.194	ng	99
12) 1,3-Dichlorobenzene	6.840	146	345180	42.092	ng	99
13) 1,4-Dichlorobenzene	6.916	146	347061	42.014	ng	99
14) 1,2-Dichlorobenzene	7.069	146	335938	42.501	ng	99
15) Benzyl Alcohol	7.040	79	268466	44.728	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	477728	43.242	ng	99
17) 2-Methylphenol	7.146	107	257655	44.905	ng	100
18) Hexachloroethane	7.410	117	121175	42.010	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	215732	42.858	ng	99
20) 3+4-Methylphenols	7.298	107	324110	44.110	ng	91
22) Acetophenone	7.304	105	422592	42.850	ng	95
24) Nitrobenzene	7.481	77	318115	43.171	ng	99
25) Isophorone	7.722	82	594145	43.496	ng	99
26) 2-Nitrophenol	7.798	139	175363	44.538	ng	97
27) 2,4-Dimethylphenol	7.834	122	310773	44.757	ng	99
28) bis(2-Chloroethoxy)met...	7.928	93	365524	42.836	ng	100
29) 2,4-Dichlorophenol	8.040	162	285033	45.139	ng	98
30) 1,2,4-Trichlorobenzene	8.122	180	291232	42.496	ng	98
31) Naphthalene	8.204	128	935463	42.644	ng	100
32) Benzoic acid	7.951	122	207650	49.128	ng	99
33) 4-Chloroaniline	8.251	127	118056	13.281	ng	97
34) Hexachlorobutadiene	8.322	225	178500	41.715	ng	100
35) Caprolactam	8.622	113	91196m	51.421	ng	
36) 4-Chloro-3-methylphenol	8.734	107	294851	45.562	ng	97
37) 2-Methylnaphthalene	8.893	142	592585	42.939	ng	99
38) 1-Methylnaphthalene	8.992	142	613178	42.954	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	296126	40.596	ng	99
41) Hexachlorocyclopentadiene	9.051	237	414238	84.182	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	213449	43.395	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142529.D
Acq On : 23 May 2025 12:10
Operator : RC/JU
Sample : PB168126BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 12:54:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168126BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	225202	43.412	ng	100
46) 1,1'-Biphenyl	9.363	154	813284	41.253	ng	100
47) 2-Chloronaphthalene	9.387	162	605089	41.542	ng	99
48) 2-Nitroaniline	9.481	65	186547	44.309	ng	98
49) Acenaphthylene	9.804	152	1027896	41.792	ng	100
50) Dimethylphthalate	9.663	163	739280	44.091	ng	99
51) 2,6-Dinitrotoluene	9.722	165	162823	44.993	ng	99
52) Acenaphthene	9.975	154	699992	46.609	ng	100
53) 3-Nitroaniline	9.892	138	95066	24.051	ng	97
54) 2,4-Dinitrophenol	9.998	184	201816	107.944	ng	92
55) Dibenzofuran	10.145	168	913241	42.256	ng	99
56) 4-Nitrophenol	10.051	139	288345	98.868	ng	98
57) 2,4-Dinitrotoluene	10.128	165	226154	47.852	ng	98
58) Fluorene	10.492	166	706574	42.319	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.263	232	197220	45.540	ng	99
60) Diethylphthalate	10.363	149	728922	44.513	ng	100
61) 4-Chlorophenyl-phenyle...	10.481	204	344381	41.988	ng	99
62) 4-Nitroaniline	10.510	138	174767	48.752	ng	98
63) Azobenzene	10.639	77	642956	43.714	ng	98
65) 4,6-Dinitro-2-methylph...	10.539	198	122904	48.971	ng	97
66) n-Nitrosodiphenylamine	10.598	169	632663	41.120	ng	99
67) 4-Bromophenyl-phenylether	10.975	248	219727	41.321	ng	97
68) Hexachlorobenzene	11.039	284	246901	41.980	ng	98
69) Atrazine	11.128	200	197434	48.319	ng	100
70) Pentachlorophenol	11.234	266	298833	89.996	ng	99
71) Phenanthrene	11.457	178	1013925	42.188	ng	100
72) Anthracene	11.504	178	1035513	42.217	ng	100
73) Carbazole	11.657	167	945018	45.067	ng	99
74) Di-n-butylphthalate	11.986	149	1089295	47.458	ng	99
75) Fluoranthene	12.645	202	1023203	45.563	ng	100
77) Benzidine	12.763	184	396998	43.258	ng	100
78) Pyrene	12.875	202	1016690	44.192	ng	100
80) Butylbenzylphthalate	13.486	149	332970	52.378	ng	100
81) Benzo(a)anthracene	14.063	228	746333	45.319	ng	99
82) 3,3'-Dichlorobenzidine	14.022	252	103235	20.668	ng	99
83) Chrysene	14.098	228	649255	43.875	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	393421	48.344	ng	99
85) Di-n-octyl phthalate	14.663	149	634752	39.891	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	759914	43.085	ng	99
88) Benzo(b)fluoranthene	15.121	252	645631	46.433	ng	98
89) Benzo(k)fluoranthene	15.157	252	584292	44.866	ng	99
90) Benzo(a)pyrene	15.504	252	598750	45.684	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	616642	43.107	ng	100
92) Benzo(g,h,i)perylene	17.539	276	618556	43.232	ng	99

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

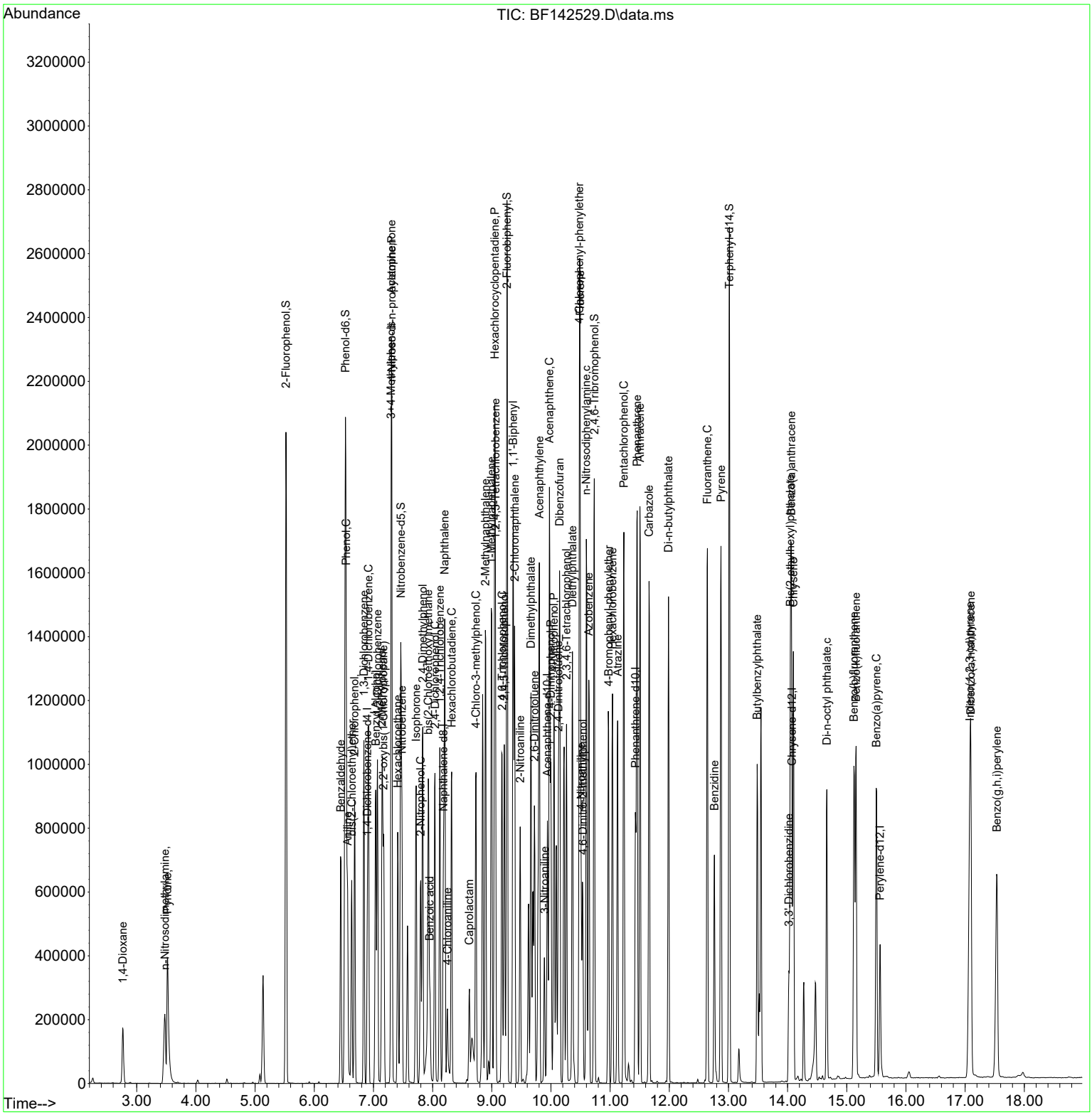
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142529.D
Acq On : 23 May 2025 12:10
Operator : RC/JU
Sample : PB168126BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 12:54:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168126BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025



Sample Results: **BF142531.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142531.D
Acq On : 23 May 2025 13:12
Operator : RC/JU
Sample : Q2100-04MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:39:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-45MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	126551	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	479831	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	253217	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	418845	20.000	ng		0.00
76) Chrysene-d12	14.069	240	224873	20.000	ng		0.00
86) Perylene-d12	15.563	264	247916	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	704635	93.807	ng		0.00
7) Phenol-d6	6.522	99	887022	98.099	ng		-0.01
23) Nitrobenzene-d5	7.463	82	529950	60.224	ng		-0.01
42) 2,4,6-Tribromophenol	10.733	330	286579	101.971	ng		0.00
45) 2-Fluorobiphenyl	9.257	172	1081815	57.328	ng		-0.01
79) Terphenyl-d14	13.010	244	928535	56.427	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.734	88	103216	34.339	ng		99
3) Pyridine	3.493	79	284645	37.187	ng		100
4) n-Nitrosodimethylamine	3.446	42	165626	41.674	ng		96
6) Aniline	6.563	93	410799	33.789	ng		100
8) 2-Chlorophenol	6.681	128	344650	42.125	ng		98
9) Benzaldehyde	6.445	77	206235	37.921	ng		98
10) Phenol	6.540	94	421804	41.458	ng		99
11) bis(2-Chloroethyl)ether	6.634	93	303451	41.433	ng		100
12) 1,3-Dichlorobenzene	6.840	146	369527	40.476	ng		99
13) 1,4-Dichlorobenzene	6.916	146	371139	40.357	ng		99
14) 1,2-Dichlorobenzene	7.069	146	359344	40.836	ng		99
15) Benzyl Alcohol	7.040	79	281673	42.153	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	506866	41.211	ng		99
17) 2-Methylphenol	7.145	107	266587	41.734	ng		99
18) Hexachloroethane	7.410	117	130566	40.660	ng		99
19) n-Nitroso-di-n-propyla...	7.310	70	226470	40.413	ng		100
20) 3+4-Methylphenols	7.298	107	328561	40.166	ng	#	90
22) Acetophenone	7.310	105	442818	41.689	ng		99
24) Nitrobenzene	7.481	77	338446	42.645	ng		98
25) Isophorone	7.722	82	607573	41.297	ng		98
26) 2-Nitrophenol	7.798	139	185622	43.771	ng		98
27) 2,4-Dimethylphenol	7.834	122	318621	42.605	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	379961	41.343	ng		100
29) 2,4-Dichlorophenol	8.039	162	286157	42.075	ng		98
30) 1,2,4-Trichlorobenzene	8.122	180	307585	41.672	ng		98
31) Naphthalene	8.204	128	976314	41.323	ng		100
32) Benzoic acid	7.951	122	220667	48.473	ng		97
33) 4-Chloroaniline	8.251	127	156215	16.317	ng		97
34) Hexachlorobutadiene	8.322	225	189081	41.027	ng		99
35) Caprolactam	8.622	113	89321m	46.761	ng		
36) 4-Chloro-3-methylphenol	8.728	107	292388	41.949	ng		99
37) 2-Methylnaphthalene	8.892	142	600475	40.398	ng		100
38) 1-Methylnaphthalene	8.992	142	621886	40.448	ng		100
40) 1,2,4,5-Tetrachloroben...	9.063	216	307313	42.278	ng		99
41) Hexachlorocyclopentadiene	9.051	237	407295	83.063	ng		100
43) 2,4,6-Trichlorophenol	9.169	196	214558	43.774	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142531.D
Acq On : 23 May 2025 13:12
Operator : RC/JU
Sample : Q2100-04MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:39:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-45MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	215965	41.778	ng	99
46) 1,1'-Biphenyl	9.357	154	822660	41.876	ng	100
47) 2-Chloronaphthalene	9.386	162	604422	41.643	ng	98
48) 2-Nitroaniline	9.481	65	178733	42.603	ng	98
49) Acenaphthylene	9.804	152	1017688	41.523	ng	100
50) Dimethylphthalate	9.663	163	708873	42.427	ng	100
51) 2,6-Dinitrotoluene	9.722	165	155634	43.158	ng	99
52) Acenaphthene	9.975	154	684906	45.765	ng	100
53) 3-Nitroaniline	9.886	138	98207	24.934	ng	100
54) 2,4-Dinitrophenol	9.998	184	189583	101.759	ng	93
55) Dibenzofuran	10.145	168	887997	41.233	ng	99
56) 4-Nitrophenol	10.051	139	258869	89.074	ng	99
57) 2,4-Dinitrotoluene	10.128	165	207938	44.153	ng	99
58) Fluorene	10.486	166	684012	41.113	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	185384	42.958	ng	100
60) Diethylphthalate	10.363	149	686074	42.044	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	331634	40.576	ng	98
62) 4-Nitroaniline	10.504	138	156171	43.718	ng	98
63) Azobenzene	10.639	77	677666	46.237	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	115375	49.359	ng	100
66) n-Nitrosodiphenylamine	10.598	169	597917	41.726	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	203700	41.130	ng	98
68) Hexachlorobenzene	11.039	284	234968	42.896	ng	97
69) Atrazine	11.128	200	180822	47.516	ng	100
70) Pentachlorophenol	11.228	266	273634	88.481	ng	99
71) Phenanthrene	11.451	178	926575	41.395	ng	99
72) Anthracene	11.504	178	957466	41.912	ng	99
73) Carbazole	11.657	167	833473	42.677	ng	100
74) Di-n-butylphthalate	11.986	149	983355	46.001	ng	100
75) Fluoranthene	12.639	202	893614	42.725	ng	98
77) Benzidine	12.763	184	377825	45.150	ng	99
78) Pyrene	12.869	202	881393	42.016	ng	100
80) Butylbenzylphthalate	13.486	149	300779	51.890	ng	99
81) Benzo(a)anthracene	14.057	228	635634	42.330	ng	98
82) 3,3'-Dichlorobenzidine	14.021	252	136420	29.953	ng	99
83) Chrysene	14.098	228	602154	44.628	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	383963	51.745	ng	99
85) Di-n-octyl phthalate	14.657	149	618171	42.606	ng	100
87) Indeno(1,2,3-cd)pyrene	17.074	276	799361	42.949	ng	99
88) Benzo(b)fluoranthene	15.121	252	683971	46.615	ng	98
89) Benzo(k)fluoranthene	15.151	252	541354	39.392	ng	98
90) Benzo(a)pyrene	15.498	252	610255	44.124	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	644627	42.704	ng	99
92) Benzo(g,h,i)perylene	17.533	276	650002	43.051	ng	98

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

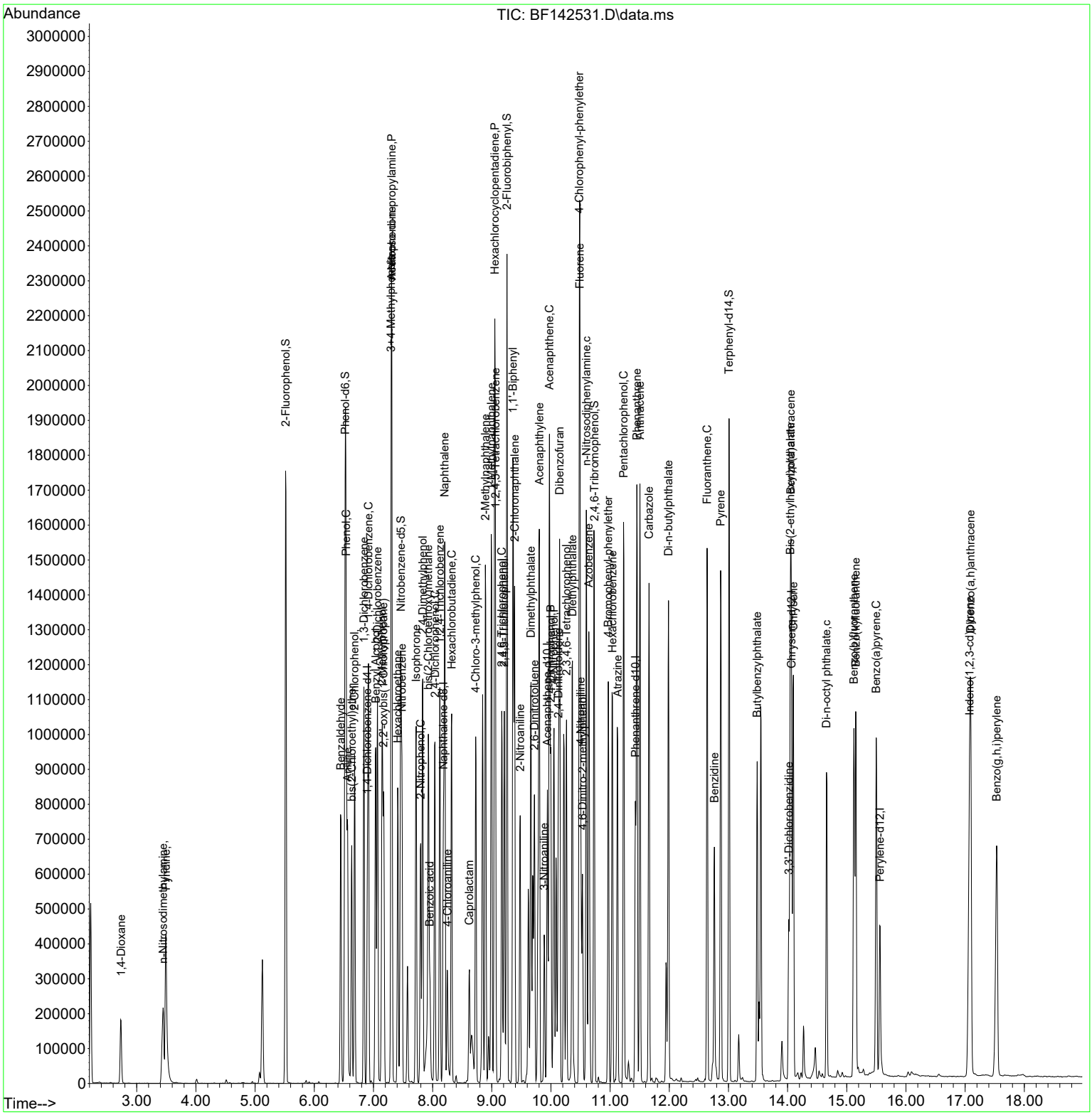
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142531.D
Acq On : 23 May 2025 13:12
Operator : RC/JU
Sample : Q2100-04MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:39:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-45MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025



Sample Results: **BF142532.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142532.D
Acq On : 23 May 2025 13:41
Operator : RC/JU
Sample : Q2100-04MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 14:03:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	123385	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	475116	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	248986	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	400587	20.000	ng	0.00
76) Chrysene-d12	14.069	240	218790	20.000	ng	0.00
86) Perylene-d12	15.563	264	251763	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	708116	96.689	ng	0.00
7) Phenol-d6	6.528	99	886372	100.543	ng	0.00
23) Nitrobenzene-d5	7.463	82	530308	60.863	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	284392	102.913	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1082706	58.350	ng	-0.01
79) Terphenyl-d14	13.010	244	893011	55.777	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.728	88	102756	35.063	ng	100
3) Pyridine	3.487	79	287109	38.471	ng	99
4) n-Nitrosodimethylamine	3.446	42	167586	43.249	ng	95
6) Aniline	6.563	93	419201	35.364	ng	99
8) 2-Chlorophenol	6.681	128	342990	42.997	ng	99
9) Benzaldehyde	6.445	77	205139	38.688	ng	98
10) Phenol	6.540	94	421422	42.483	ng	99
11) bis(2-Chloroethyl)ether	6.634	93	307573	43.074	ng	99
12) 1,3-Dichlorobenzene	6.840	146	365246	41.034	ng	99
13) 1,4-Dichlorobenzene	6.916	146	371141	41.393	ng	99
14) 1,2-Dichlorobenzene	7.069	146	359213	41.869	ng	98
15) Benzyl Alcohol	7.040	79	278685	42.776	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	510625	42.582	ng	99
17) 2-Methylphenol	7.145	107	266603	42.807	ng	99
18) Hexachloroethane	7.410	117	131150	41.890	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	224239	41.042	ng	100
20) 3+4-Methylphenols	7.298	107	327995	41.125	ng	92
22) Acetophenone	7.304	105	441349	41.963	ng	95
24) Nitrobenzene	7.481	77	333991	42.501	ng	99
25) Isophorone	7.722	82	608440	41.766	ng	98
26) 2-Nitrophenol	7.798	139	187195	44.580	ng	96
27) 2,4-Dimethylphenol	7.834	122	316993	42.808	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	381200	41.889	ng	99
29) 2,4-Dichlorophenol	8.039	162	287241	42.653	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	305557	41.808	ng	99
31) Naphthalene	8.204	128	983702	42.049	ng	100
32) Benzoic acid	7.951	122	220689	48.959	ng	97
33) 4-Chloroaniline	8.251	127	161439	17.030	ng	97
34) Hexachlorobutadiene	8.322	225	188941	41.403	ng	98
35) Caprolactam	8.622	113	88842m	46.972	ng	
36) 4-Chloro-3-methylphenol	8.728	107	293420	42.515	ng	100
37) 2-Methylnaphthalene	8.892	142	597956	40.628	ng	99
38) 1-Methylnaphthalene	8.992	142	629327	41.338	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	306573	42.893	ng	99
41) Hexachlorocyclopentadiene	9.051	237	411222	85.289	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	212894	44.173	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142532.D
Acq On : 23 May 2025 13:41
Operator : RC/JU
Sample : Q2100-04MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 14:03:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	217153	42.722	ng	99
46) 1,1'-Biphenyl	9.357	154	818491	42.372	ng	100
47) 2-Chloronaphthalene	9.386	162	611229	42.827	ng	99
48) 2-Nitroaniline	9.481	65	178729	43.326	ng	97
49) Acenaphthylene	9.804	152	1011442	41.970	ng	99
50) Dimethylphthalate	9.663	163	702884	42.783	ng	100
51) 2,6-Dinitrotoluene	9.722	165	154865	43.675	ng	99
52) Acenaphthene	9.975	154	682029	46.347	ng	99
53) 3-Nitroaniline	9.886	138	95079	24.550	ng	99
54) 2,4-Dinitrophenol	9.998	184	189908	103.665	ng	92
55) Dibenzofuran	10.145	168	883252	41.710	ng	99
56) 4-Nitrophenol	10.051	139	255242	89.319	ng	100
57) 2,4-Dinitrotoluene	10.128	165	208376	44.998	ng	98
58) Fluorene	10.486	166	686117	41.940	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.263	232	184473	43.474	ng	99
60) Diethylphthalate	10.363	149	685883	42.747	ng	99
61) 4-Chlorophenyl-phenyle...	10.480	204	333266	41.469	ng	97
62) 4-Nitroaniline	10.504	138	154852	44.085	ng	98
63) Azobenzene	10.639	77	676743	46.958	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	116634	52.172	ng	99
66) n-Nitrosodiphenylamine	10.598	169	599635	43.753	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	206212	43.535	ng	99
68) Hexachlorobenzene	11.039	284	228199	43.559	ng	98
69) Atrazine	11.122	200	174427	47.924	ng	99
70) Pentachlorophenol	11.233	266	269625	91.158	ng	100
71) Phenanthrene	11.451	178	921600	43.049	ng	99
72) Anthracene	11.504	178	948760	43.424	ng	100
73) Carbazole	11.657	167	822959	44.060	ng	100
74) Di-n-butylphthalate	11.986	149	955418	46.731	ng	100
75) Fluoranthene	12.639	202	870987	43.541	ng	98
77) Benzidine	12.763	184	377613	46.379	ng	98
78) Pyrene	12.869	202	848467	41.571	ng	100
80) Butylbenzylphthalate	13.486	149	293638	52.067	ng	99
81) Benzo(a)anthracene	14.057	228	627185	42.929	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	142487	32.155	ng	99
83) Chrysene	14.098	228	588371	44.819	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	373256	51.701	ng	99
85) Di-n-octyl phthalate	14.663	149	627635	44.461	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	812672	42.997	ng	99
88) Benzo(b)fluoranthene	15.121	252	687661	46.150	ng	99
89) Benzo(k)fluoranthene	15.151	252	555974	39.838	ng	98
90) Benzo(a)pyrene	15.498	252	617384	43.957	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	656511	42.827	ng	99
92) Benzo(g,h,i)perylene	17.533	276	659798	43.032	ng	98

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

Sample Results: **BF142532.D**

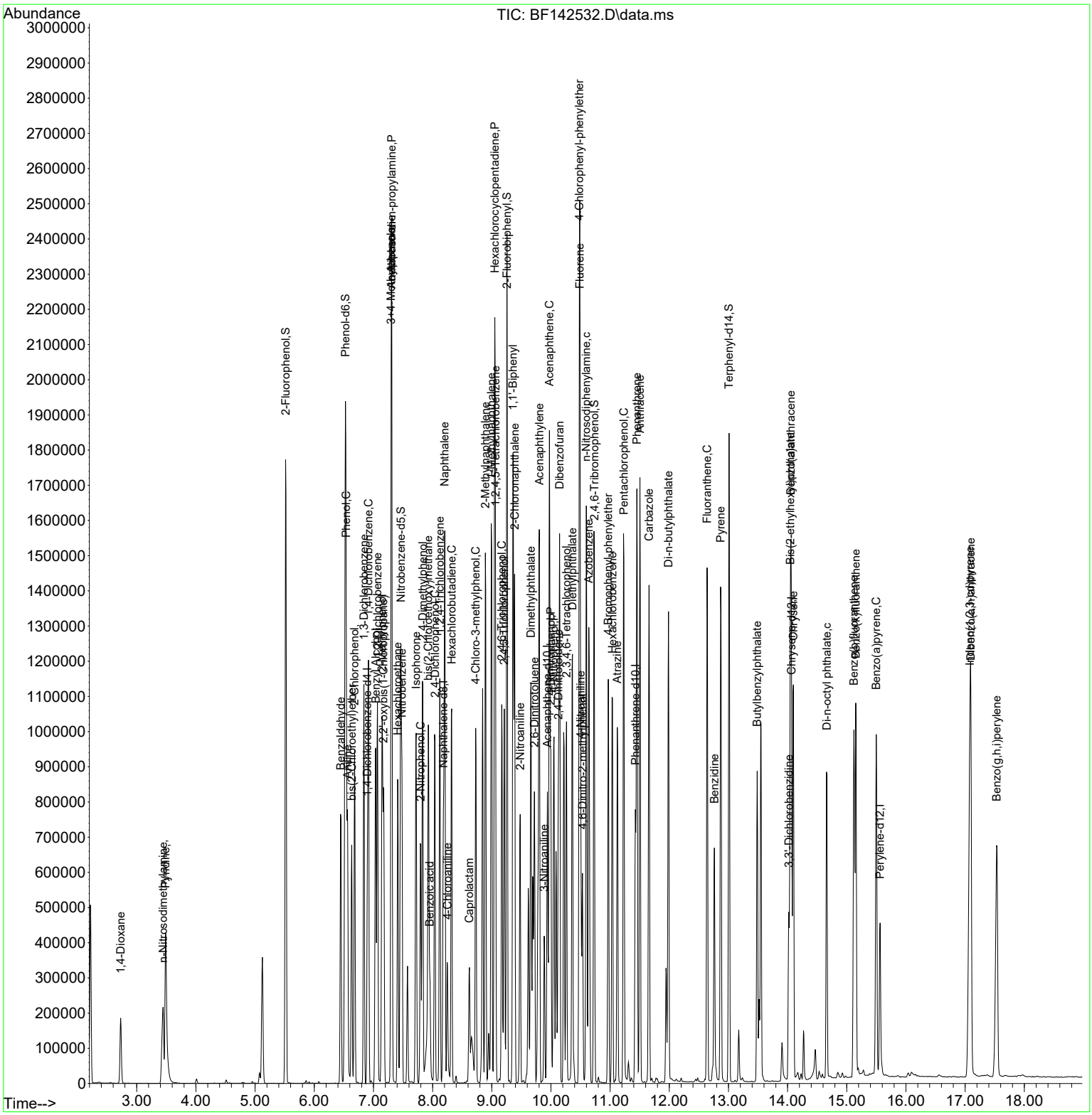
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142532.D
Acq On : 23 May 2025 13:41
Operator : RC/JU
Sample : Q2100-04MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 14:03:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025



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Manual Integration Report

Sequence:	bf052025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF142469.D	Benzoic acid	Rahul	5/21/2025 2:07:30 PM	Jagrut	5/21/2025 4:43:55 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf052325	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168126BS	BF142529.D	Caprolactam	Rahul	5/27/2025 10:49:59 AM	Jagrut	5/27/2025 2:37:50 PM	Peak Integrated by Software
Q2100-04MS	BF142531.D	Caprolactam	Rahul	5/27/2025 10:50:01 AM	Jagrut	5/27/2025 2:37:52 PM	Peak Integrated by Software
Q2100-04MSD	BF142532.D	Caprolactam	Rahul	5/27/2025 10:50:04 AM	Jagrut	5/27/2025 2:37:55 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM				
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM				
SubDirectory	BF052025	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142465.D	20 May 2025 11:13	RC/JU	Ok
2	SSTDCCC040	BF142466.D	20 May 2025 11:41	RC/JU	Not Ok
3	SSTDICC2.5	BF142467.D	20 May 2025 12:10	RC/JU	Ok
4	SSTDICC005	BF142468.D	20 May 2025 12:38	RC/JU	Ok
5	SSTDICC010	BF142469.D	20 May 2025 13:07	RC/JU	Ok,M
6	SSTDICC020	BF142470.D	20 May 2025 13:36	RC/JU	Ok
7	SSTDICCC040	BF142471.D	20 May 2025 14:05	RC/JU	Ok
8	SSTDICC050	BF142472.D	20 May 2025 14:34	RC/JU	Ok
9	SSTDICC060	BF142473.D	20 May 2025 15:03	RC/JU	Ok
10	SSTDICC080	BF142474.D	20 May 2025 15:31	RC/JU	Ok
11	SSTDICV040	BF142475.D	20 May 2025 16:31	RC/JU	Ok
12	PB168067TB	BF142476.D	20 May 2025 17:29	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM				
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM				
SubDirectory	BF052325	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142526.D	23 May 2025 10:43	RC/JU	Ok
2	SSTDCCC040	BF142527.D	23 May 2025 11:12	RC/JU	Ok
3	PB168126BL	BF142528.D	23 May 2025 11:41	RC/JU	Ok
4	PB168126BS	BF142529.D	23 May 2025 12:10	RC/JU	Ok,M
5	Q2100-04	BF142530.D	23 May 2025 12:43	RC/JU	Ok
6	Q2100-04MS	BF142531.D	23 May 2025 13:12	RC/JU	Ok,M
7	Q2100-04MSD	BF142532.D	23 May 2025 13:41	RC/JU	Ok,M
8	Q2097-03	BF142533.D	23 May 2025 14:10	RC/JU	Ok
9	Q2097-03MS	BF142534.D	23 May 2025 14:39	RC/JU	Ok,M
10	Q2097-03MSD	BF142535.D	23 May 2025 15:07	RC/JU	Ok,M
11	Q2100-02	BF142536.D	23 May 2025 15:37	RC/JU	Ok
12	Q2100-01	BF142537.D	23 May 2025 16:05	RC/JU	Ok
13	Q2114-01	BF142538.D	23 May 2025 16:34	RC/JU	Ok
14	Q2095-04	BF142539.D	23 May 2025 17:03	RC/JU	Ok
15	Q2095-04MS	BF142540.D	23 May 2025 17:32	RC/JU	Ok,M
16	Q2095-04MSD	BF142541.D	23 May 2025 18:01	RC/JU	Ok,M
17	Q2109-04	BF142542.D	23 May 2025 18:29	RC/JU	Ok
18	Q2102-03	BF142543.D	23 May 2025 18:58	RC/JU	Ok,M
19	Q2109-01	BF142544.D	23 May 2025 19:27	RC/JU	Dilution
20	Q2109-01MS	BF142545.D	23 May 2025 19:56	RC/JU	Ok,M
21	Q2109-01MSD	BF142546.D	23 May 2025 20:25	RC/JU	Ok,M

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM				
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM				
SubDirectory	BF052325	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2100-03	BF142547.D	23 May 2025 20:53	RC/JU	Ok
23	Q2112-01	BF142548.D	23 May 2025 21:22	RC/JU	Ok,M
24	Q2113-01	BF142549.D	23 May 2025 21:51	RC/JU	Ok
25	Q2102-01	BF142550.D	23 May 2025 22:21	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM		
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM		
SubDirectory	BF052025	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142465.D	20 May 2025 11:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142466.D	20 May 2025 11:41	Fresh Calibration Required	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF142467.D	20 May 2025 12:10		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF142468.D	20 May 2025 12:38	Compound #32,54,85 removed from 5ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF142469.D	20 May 2025 13:07		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF142470.D	20 May 2025 13:36		RC/JU	Ok
7	SSTDICCC040	SSTDICCC040	BF142471.D	20 May 2025 14:05	This calibration is good for both the methods, 8270E DOD and 625.1.	RC/JU	Ok
8	SSTDICC050	SSTDICC050	BF142472.D	20 May 2025 14:34		RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF142473.D	20 May 2025 15:03		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF142474.D	20 May 2025 15:31		RC/JU	Ok
11	SSTDICV040	ICVBF052025	BF142475.D	20 May 2025 16:31		RC/JU	Ok
12	PB168067TB	PB168067TB	BF142476.D	20 May 2025 17:29		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM		
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM		
SubDirectory	BF052325	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142526.D	23 May 2025 10:43		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142527.D	23 May 2025 11:12		RC/JU	Ok
3	PB168126BL	PB168126BL	BF142528.D	23 May 2025 11:41		RC/JU	Ok
4	PB168126BS	PB168126BS	BF142529.D	23 May 2025 12:10		RC/JU	Ok,M
5	Q2100-04	TP-45	BF142530.D	23 May 2025 12:43		RC/JU	Ok
6	Q2100-04MS	TP-45MS	BF142531.D	23 May 2025 13:12		RC/JU	Ok,M
7	Q2100-04MSD	TP-45MSD	BF142532.D	23 May 2025 13:41		RC/JU	Ok,M
8	Q2097-03	RBR200044	BF142533.D	23 May 2025 14:10		RC/JU	Ok
9	Q2097-03MS	RBR200044MS	BF142534.D	23 May 2025 14:39		RC/JU	Ok,M
10	Q2097-03MSD	RBR200044MSD	BF142535.D	23 May 2025 15:07		RC/JU	Ok,M
11	Q2100-02	TP-22	BF142536.D	23 May 2025 15:37		RC/JU	Ok
12	Q2100-01	TP-16	BF142537.D	23 May 2025 16:05		RC/JU	Ok
13	Q2114-01	GAW1	BF142538.D	23 May 2025 16:34		RC/JU	Ok
14	Q2095-04	WCS-TP1	BF142539.D	23 May 2025 17:03		RC/JU	Ok
15	Q2095-04MS	WCS-TP1MS	BF142540.D	23 May 2025 17:32		RC/JU	Ok,M
16	Q2095-04MSD	WCS-TP1MSD	BF142541.D	23 May 2025 18:01		RC/JU	Ok,M
17	Q2109-04	TP-02-MHF	BF142542.D	23 May 2025 18:29		RC/JU	Ok
18	Q2102-03	LAW-25-0078	BF142543.D	23 May 2025 18:58	Internal standard fail	RC/JU	Ok,M

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM		
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM		
SubDirectory	BF052325	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2109-01	TP-02-MHF	BF142544.D	23 May 2025 19:27	Need 2X Dilution	RC/JU	Dilution
20	Q2109-01MS	TP-02-MHFMS	BF142545.D	23 May 2025 19:56		RC/JU	Ok,M
21	Q2109-01MSD	TP-02-MHFMSD	BF142546.D	23 May 2025 20:25		RC/JU	Ok,M
22	Q2100-03	TP-21	BF142547.D	23 May 2025 20:53		RC/JU	Ok
23	Q2112-01	EO-03-05222025	BF142548.D	23 May 2025 21:22		RC/JU	Ok,M
24	Q2113-01	HD-02-05222025	BF142549.D	23 May 2025 21:51		RC/JU	Ok
25	Q2102-01	LAW-25-0077	BF142550.D	23 May 2025 22:21	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168126

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 05/22/2025

Extraction Start Time : 09:00

Extraction End Date : 05/22/2025

Extraction End Time : 12:10

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6782
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2614
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/22/25	RS (Ext lab)	RC/SVOC
12:15	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168126

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/22/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168126BL	SBLK126	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U6-1
PB168126BS	SLCS126	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
Q2095-01	WCS-TP1	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q2095-05	WCS-TP2	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q2100-01	TP-16	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
Q2100-02	TP-22	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		6
Q2100-03	TP-21	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		U1-1
Q2100-04	TP-45	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q2100-04MS	TP-45MS	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		3
Q2100-04MSD	TP-45MSD	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2101-01	TP-1-MHE	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	C		5
Q2102-01	LAW-25-0077	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E	Small Partical	6
Q2104-01	TR-06-052125	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		U2-1

RS
5/22

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

168126 9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2100BN **WorkList ID :** 189697 **Department :** Extraction **Date :** 05-22-2025 08:37:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2095-01	WCS-TP1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/20/2025	8270E
Q2095-05	WCS-TP2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/20/2025	8270E
Q2100-01	TP-16	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2100-02	TP-22	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2100-03	TP-21	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2100-04	TP-45	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2101-01	TP-1-MHE	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/19/2025	8270E
Q2102-01	LAW-25-0077	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L21	05/21/2025	8270E
Q2104-01	TR-06-052125	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L31	05/21/2025	8270E

Date/Time 05/22/25 8:55
Raw Sample Received by: RJ (EA-(ceh)
Raw Sample Relinquished by: SM

Date/Time 05/22/25 9:10
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (EA-(ceh)

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

LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	