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

Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-12									
Q2074-01	TP-12	SOIL	Acenaphthylene		90.100	J	34.5	200	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene		110.000	J	25	200	ug/Kg
Q2074-01	TP-12	SOIL	Fluoranthene		800.000		35.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene		630.000		43	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(a)anthracene		300.000		27.5	200	ug/Kg
Q2074-01	TP-12	SOIL	Chrysene		370.000		23.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(b)fluoranthene		450.000		22.7	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(k)fluoranthene		91.000	J	26.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(a)pyrene		310.000		35.2	200	ug/Kg
Q2074-01	TP-12	SOIL	Indeno(1,2,3-cd)pyrene		120.000	J	34.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(g,h,i)perylene		140.000	J	30.7	200	ug/Kg
			Total Svoc :		**3,411.10**				
Q2074-01	TP-12	SOIL	1-Hexacosene	*	92.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2074-01	TP-12	SOIL	4H-Cyclopenta[def]phenanthrene	*	340.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzo[e]pyrene	*	230.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Decahydro-1,1,4a,5,6-pentamethy	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Fluoranthene, 2-methyl-	*	150.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,5-dimethyl-	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,7-dimethyl-	*	84.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2-methyl-	*	290.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 1-methyl-	*	92.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 4-methyl-	*	90.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Undecane, 2,6-dimethyl-	*	88.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	unknown12.510	*	110.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Oxalic acid, cyclobutyl pentadecy	*	85.200	J	0	0	ug/Kg
			Total Tics :		**2,334.40**				
			Total Concentration:		**5,745.50**				
Client ID : TP-7									
Q2074-02	TP-7	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Heptadecyl trifluoroacetate	*	140.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	n-Hexadecanoic acid	*	380.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Octadecanoic acid	*	89.300	J	0	0	ug/Kg
			Total Tics :		**1,059.30**				

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

Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**1,059.30**				
Client ID : TP-15									
Q2074-03	TP-15	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Benzophenone	*	450.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Methanone, (1-hydroxycyclohexy	*	84.200	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Trifluoroacetoxy hexadecane	*	150.000	J	0	0	ug/Kg
			Total Tics :		**1,124.20**				
			Total Concentration:		**1,124.20**				
Client ID : TP-20									
Q2074-04	TP-20	SOIL	Fluoranthene		87.400	J	35.5	200	ug/Kg
			Total Svoc :		**87.40**				
Q2074-04	TP-20	SOIL	1-Docosene	*	180.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Benzophenone	*	500.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Methanone, (1-hydroxycyclohexy	*	89.600	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
			Total Tics :		**1,369.60**				
			Total Concentration:		**1,457.00**				
Client ID : TP-38									
Q2074-05	TP-38	SOIL	Bis(2-ethylhexyl)phthalate		100.000	J	72.1	210	ug/Kg
			Total Svoc :		**100.00**				
Q2074-05	TP-38	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hentriacontane	*	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Heptafluorobutyric acid, pentadec	*	120.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hexacosane	*	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	n-Hexadecanoic acid	*	360.000	J	0	0	ug/Kg
			Total Tics :		**1,203.80**				
			Total Concentration:		**1,303.80**				
Client ID : TP-19									
Q2074-06	TP-19	SOIL	1-Hexacosene	*	140.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	240.000	AB	0	0	ug/Kg
Q2074-06	TP-19	SOIL	Benzophenone	*	190.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	n-Hexadecanoic acid	*	180.000	J	0	0	ug/Kg
			Total Tics :		**750.00**				
			Total Concentration:		**750.00**				
Client ID : TP-40									

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

Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2074-07	TP-40	SOIL	Phenanthrene		140.000	J	23.4	190	ug/Kg
Q2074-07	TP-40	SOIL	Fluoranthene		440.000		33.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Pyrene		300.000		40.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)anthracene		180.000	J	25.8	190	ug/Kg
Q2074-07	TP-40	SOIL	Chrysene		200.000		22.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(b)fluoranthene		320.000		21.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(k)fluoranthene		79.100	J	25.1	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)pyrene		200.000		33	190	ug/Kg
Q2074-07	TP-40	SOIL	Indeno(1,2,3-cd)pyrene		86.900	J	32.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(g,h,i)perylene		110.000	J	28.8	190	ug/Kg
			Total Svoc :		**2,056.00**				
Q2074-07	TP-40	SOIL	1-Eicosene	*	80.600	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Anthracene, 2-methyl-	*	160.000	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzo[e]pyrene	*	140.000	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzophenone	*	150.000	J	0	0	ug/Kg
			Total Tics :		**740.60**				
			Total Concentration:		**2,796.60**				
Client ID :	**TP-18**								
Q2074-08	TP-18	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-08	TP-18	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2074-08	TP-18	SOIL	n-Hexadecanoic acid	*	180.000	J	0	0	ug/Kg
Q2074-08	TP-18	SOIL	Trifluoroacetoxy hexadecane	*	150.000	J	0	0	ug/Kg
			Total Tics :		**800.00**				
			Total Concentration:		**800.00**				

SAMPLE DATA

Raw Data: **BF142513.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

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	26.4	U	26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.2	U	29.2	200	ug/Kg
95-48-7	2-Methylphenol	35.7	U	35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.8	U	44.8	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.1	U	49.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.6	U	56.6	95.6	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.9	U	21.9	200	ug/Kg
78-59-1	Isophorone	39.2	U	39.2	200	ug/Kg
88-75-5	2-Nitrophenol	69.5	U	69.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.4	U	77.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.8	U	36.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.8	U	33.8	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.3	U	42.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.3	U	62.3	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.3	U	34.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.6	U	30.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.7	U	23.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.8	U	34.8	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.9	U	26.9	200	ug/Kg
88-74-4	2-Nitroaniline	57.5	U	57.5	200	ug/Kg
131-11-3	Dimethylphthalate	32.4	U	32.4	200	ug/Kg

Raw Data: **BF142513.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	90.1	J	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	U	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	55.0	U	55.0	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	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	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.9	U	59.9	200	ug/Kg
84-66-2	Diethylphthalate	33.8	U	33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.9	U	31.9	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.7	U	76.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.3	U	39.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.2	U	33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	U	30.2	200	ug/Kg
1912-24-9	Atrazine	40.6	U	40.6	200	ug/Kg
87-86-5	Pentachlorophenol	61.3	U	61.3	390	ug/Kg
85-01-8	Phenanthrene	110	J	25.0	200	ug/Kg
120-12-7	Anthracene	39.8	U	39.8	200	ug/Kg
86-74-8	Carbazole	37.3	U	37.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.2	U	57.2	200	ug/Kg
206-44-0	Fluoranthene	800		35.8	200	ug/Kg
129-00-0	Pyrene	630		43.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.3	U	85.3	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	300		27.5	200	ug/Kg
218-01-9	Chrysene	370		23.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.7	U	70.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	450		22.7	200	ug/Kg

Raw Data: **BF142513.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.0	J	26.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	310		35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	34.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	J	30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.6	U	30.6	200	ug/Kg
123-91-1	1,4-Dioxane	54.0	U	54.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.6		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	79.8		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.4		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.9		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.1		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	37.7		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	101000	6.898			
1146-65-2	Naphthalene-d8	332000	8.181			
15067-26-2	Acenaphthene-d10	142000	9.934			
1517-22-2	Phenanthrene-d10	236000	11.422			
1719-03-5	Chrysene-d12	183000	14.063			
1520-96-3	Perylene-d12	150000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	88.4	J		8.23	ug/Kg
1010309-70-5	Oxalic acid, cyclobutyl pentadecyl	85.2	J		9.34	ug/Kg
080655-44-3	Decahydro-1,1,4a,5,6-pentamethylna	130	J		9.64	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	290	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	340	J		12.0	ug/Kg

Raw Data: **BF142513.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
003674-66-6	Phenanthrene, 2,5-dimethyl-	130	J		12.5	ug/Kg
	unknown12.510	110	J		12.5	ug/Kg
001576-69-8	Phenanthrene, 2,7-dimethyl-	84.8	J		12.6	ug/Kg
002381-21-7	Pyrene, 1-methyl-	92.4	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	150	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	90.8	J		13.3	ug/Kg
018835-33-1	1-Hexacosene	92.8	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	230	J		15.4	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: **BF142481.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

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	27.3	U	27.3	190	ug/Kg
95-57-8	2-Chlorophenol	27.5	U	27.5	190	ug/Kg
95-48-7	2-Methylphenol	33.6	U	33.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.2	U	42.2	190	ug/Kg
98-86-2	Acetophenone	33.2	U	33.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.2	U	46.2	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.3	U	53.3	90.0	ug/Kg
67-72-1	Hexachloroethane	19.8	U	19.8	190	ug/Kg
98-95-3	Nitrobenzene	20.6	U	20.6	190	ug/Kg
78-59-1	Isophorone	36.9	U	36.9	190	ug/Kg
88-75-5	2-Nitrophenol	65.5	U	65.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.9	U	72.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.7	U	34.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.8	U	31.8	190	ug/Kg
91-20-3	Naphthalene	25.5	U	25.5	190	ug/Kg
106-47-8	4-Chloroaniline	39.8	U	39.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.5	U	28.5	190	ug/Kg
105-60-2	Caprolactam	58.6	U	58.6	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.3	U	32.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.8	U	28.8	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	32.7	U	32.7	190	ug/Kg
92-52-4	1,1-Biphenyl	24.5	U	24.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.3	U	25.3	190	ug/Kg
88-74-4	2-Nitroaniline	54.1	U	54.1	190	ug/Kg
131-11-3	Dimethylphthalate	30.5	U	30.5	190	ug/Kg

Raw Data: **BF142481.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.5	U	32.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.8	U	37.8	190	ug/Kg
99-09-2	3-Nitroaniline	51.8	U	51.8	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	25.5	U	25.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.4	U	56.4	190	ug/Kg
84-66-2	Diethylphthalate	31.8	U	31.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.0	U	30.0	190	ug/Kg
86-73-7	Fluorene	28.5	U	28.5	190	ug/Kg
100-01-6	4-Nitroaniline	72.2	U	72.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.0	U	37.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.3	U	31.3	190	ug/Kg
118-74-1	Hexachlorobenzene	28.5	U	28.5	190	ug/Kg
1912-24-9	Atrazine	38.3	U	38.3	190	ug/Kg
87-86-5	Pentachlorophenol	57.7	U	57.7	370	ug/Kg
85-01-8	Phenanthrene	23.5	U	23.5	190	ug/Kg
120-12-7	Anthracene	37.5	U	37.5	190	ug/Kg
86-74-8	Carbazole	35.1	U	35.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.9	U	53.9	190	ug/Kg
206-44-0	Fluoranthene	33.8	U	33.8	190	ug/Kg
129-00-0	Pyrene	40.5	U	40.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.3	U	80.3	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.3	U	41.3	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.9	U	25.9	190	ug/Kg
218-01-9	Chrysene	22.4	U	22.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.6	U	66.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.7	U	97.7	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.4	U	21.4	190	ug/Kg

Raw Data: **BF142481.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.2	U	25.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.2	U	33.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.7	U	32.7	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.8	U	30.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.9	U	28.9	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.8	U	28.8	190	ug/Kg
123-91-1	1,4-Dioxane	50.9	U	50.9	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.8	U	30.8	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.5		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	89.6		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.5		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.0		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.4		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	38.1		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88100	6.898			
1146-65-2	Naphthalene-d8	330000	8.181			
15067-26-2	Acenaphthene-d10	169000	9.939			
1517-22-2	Phenanthrene-d10	294000	11.422			
1719-03-5	Chrysene-d12	264000	14.063			
1520-96-3	Perylene-d12	239000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.10	ug/Kg
000119-61-9	Benzophenone	180	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	89.3	J		12.7	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	140	J		13.9	ug/Kg

Raw Data: **BF142481.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

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: **BF142514.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.4	U	25.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.9	U	27.9	200	ug/Kg
95-57-8	2-Chlorophenol	28.0	U	28.0	200	ug/Kg
95-48-7	2-Methylphenol	34.3	U	34.3	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.1	U	43.1	200	ug/Kg
98-86-2	Acetophenone	33.9	U	33.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.2	U	47.2	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.4	U	54.4	91.9	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.0	U	21.0	200	ug/Kg
78-59-1	Isophorone	37.7	U	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	66.9	U	66.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.4	U	74.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.5	U	32.5	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.7	U	40.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	59.8	U	59.8	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.0	U	33.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.4	U	29.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.7	U	22.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.4	U	33.4	200	ug/Kg
92-52-4	1,1-Biphenyl	25.0	U	25.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.8	U	25.8	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.1	U	31.1	200	ug/Kg

Raw Data: **BF142514.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	U	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.6	U	38.6	200	ug/Kg
99-09-2	3-Nitroaniline	52.8	U	52.8	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.5	U	57.5	200	ug/Kg
84-66-2	Diethylphthalate	32.5	U	32.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.7	U	30.7	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.7	U	73.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	U	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.9	U	31.9	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	58.9	U	58.9	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	U	38.3	200	ug/Kg
86-74-8	Carbazole	35.8	U	35.8	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.0	U	55.0	200	ug/Kg
206-44-0	Fluoranthene	34.5	U	34.5	200	ug/Kg
129-00-0	Pyrene	41.4	U	41.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.0	U	82.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.4	U	26.4	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.0	U	68.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.7	U	99.7	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.8	U	21.8	200	ug/Kg

Raw Data: **BF142514.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.7	U	25.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	U	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.4	U	33.4	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5	U	31.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.5	U	29.5	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.4	U	29.4	200	ug/Kg
123-91-1	1,4-Dioxane	51.9	U	51.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.5	U	31.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.2		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	72.2		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	43.7		18 - 107	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.0		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.0		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	40.8		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.898			
1146-65-2	Naphthalene-d8	403000	8.181			
15067-26-2	Acenaphthene-d10	196000	9.934			
1517-22-2	Phenanthrene-d10	331000	11.422			
1719-03-5	Chrysene-d12	212000	14.063			
1520-96-3	Perylene-d12	173000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.11	ug/Kg
000119-61-9	Benzophenone	450	J		10.6	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	84.2	J		11.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	150	J		13.9	ug/Kg

Raw Data: **BF142514.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

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: **BF142482.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	26.2	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	28.9	U	28.9	200	ug/Kg
95-48-7	2-Methylphenol	35.4	U	35.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.4	U	44.4	200	ug/Kg
98-86-2	Acetophenone	34.9	U	34.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.7	U	48.7	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.1	U	56.1	94.7	ug/Kg
67-72-1	Hexachloroethane	20.8	U	20.8	200	ug/Kg
98-95-3	Nitrobenzene	21.7	U	21.7	200	ug/Kg
78-59-1	Isophorone	38.8	U	38.8	200	ug/Kg
88-75-5	2-Nitrophenol	68.9	U	68.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.7	U	76.7	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.5	U	36.5	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.5	U	33.5	200	ug/Kg
91-20-3	Naphthalene	26.9	U	26.9	200	ug/Kg
106-47-8	4-Chloroaniline	41.9	U	41.9	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.0	U	30.0	200	ug/Kg
105-60-2	Caprolactam	61.7	U	61.7	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.0	U	34.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.3	U	30.3	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.4	U	23.4	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.5	U	34.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.8	U	25.8	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.6	U	26.6	200	ug/Kg
88-74-4	2-Nitroaniline	57.0	U	57.0	200	ug/Kg
131-11-3	Dimethylphthalate	32.1	U	32.1	200	ug/Kg

Raw Data: **BF142482.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.2	U	34.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.8	U	39.8	200	ug/Kg
99-09-2	3-Nitroaniline	54.5	U	54.5	200	ug/Kg
83-32-9	Acenaphthene	25.2	U	25.2	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	59.3	U	59.3	200	ug/Kg
84-66-2	Diethylphthalate	33.5	U	33.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.6	U	31.6	200	ug/Kg
86-73-7	Fluorene	30.0	U	30.0	200	ug/Kg
100-01-6	4-Nitroaniline	76.0	U	76.0	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	32.9	U	32.9	200	ug/Kg
118-74-1	Hexachlorobenzene	30.0	U	30.0	200	ug/Kg
1912-24-9	Atrazine	40.3	U	40.3	200	ug/Kg
87-86-5	Pentachlorophenol	60.8	U	60.8	390	ug/Kg
85-01-8	Phenanthrene	24.8	U	24.8	200	ug/Kg
120-12-7	Anthracene	39.4	U	39.4	200	ug/Kg
86-74-8	Carbazole	36.9	U	36.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.7	U	56.7	200	ug/Kg
206-44-0	Fluoranthene	87.4	J	35.5	200	ug/Kg
129-00-0	Pyrene	42.6	U	42.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	84.6	U	84.6	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.5	U	43.5	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.2	U	27.2	200	ug/Kg
218-01-9	Chrysene	23.6	U	23.6	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.1	U	70.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.5	U	22.5	200	ug/Kg

Raw Data: **BF142482.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.5	U	26.5	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.9	U	34.9	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	32.4	U	32.4	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.4	U	30.4	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.3	U	30.3	200	ug/Kg
123-91-1	1,4-Dioxane	53.5	U	53.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.4	U	32.4	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.5		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	87.7		15 - 107	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.7		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.6		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.8		10 - 116	57%	SPK: 150
1718-51-0	Terphenyl-d14	40.0		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	78200	6.898			
1146-65-2	Naphthalene-d8	293000	8.181			
15067-26-2	Acenaphthene-d10	152000	9.933			
1517-22-2	Phenanthrene-d10	263000	11.422			
1719-03-5	Chrysene-d12	230000	14.063			
1520-96-3	Perylene-d12	198000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.10	ug/Kg
000119-61-9	Benzophenone	500	J		10.7	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	89.6	J		11.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
001599-67-3	1-Docosene	180	J		13.9	ug/Kg

Raw Data: **BF142482.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

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: **BF142505.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.9	U	26.9	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.6	U	29.6	210	ug/Kg
95-57-8	2-Chlorophenol	29.7	U	29.7	210	ug/Kg
95-48-7	2-Methylphenol	36.4	U	36.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.7	U	45.7	210	ug/Kg
98-86-2	Acetophenone	35.9	U	35.9	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.0	U	50.0	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.7	U	57.7	97.4	ug/Kg
67-72-1	Hexachloroethane	21.4	U	21.4	210	ug/Kg
98-95-3	Nitrobenzene	22.3	U	22.3	210	ug/Kg
78-59-1	Isophorone	39.9	U	39.9	210	ug/Kg
88-75-5	2-Nitrophenol	70.9	U	70.9	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.9	U	78.9	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.5	U	37.5	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.5	U	34.5	210	ug/Kg
91-20-3	Naphthalene	27.6	U	27.6	210	ug/Kg
106-47-8	4-Chloroaniline	43.1	U	43.1	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.8	U	30.8	210	ug/Kg
105-60-2	Caprolactam	63.4	U	63.4	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.9	U	34.9	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.2	U	31.2	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.1	U	24.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.4	U	35.4	210	ug/Kg
92-52-4	1,1-Biphenyl	26.5	U	26.5	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.4	U	27.4	210	ug/Kg
88-74-4	2-Nitroaniline	58.6	U	58.6	210	ug/Kg
131-11-3	Dimethylphthalate	33.0	U	33.0	210	ug/Kg

Raw Data: **BF142505.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.2	U	35.2	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.9	U	40.9	210	ug/Kg
99-09-2	3-Nitroaniline	56.0	U	56.0	210	ug/Kg
83-32-9	Acenaphthene	25.9	U	25.9	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.6	U	27.6	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.0	U	61.0	210	ug/Kg
84-66-2	Diethylphthalate	34.5	U	34.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.5	U	32.5	210	ug/Kg
86-73-7	Fluorene	30.8	U	30.8	210	ug/Kg
100-01-6	4-Nitroaniline	78.2	U	78.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.1	U	40.1	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.9	U	33.9	210	ug/Kg
118-74-1	Hexachlorobenzene	30.8	U	30.8	210	ug/Kg
1912-24-9	Atrazine	41.4	U	41.4	210	ug/Kg
87-86-5	Pentachlorophenol	62.5	U	62.5	400	ug/Kg
85-01-8	Phenanthrene	25.5	U	25.5	210	ug/Kg
120-12-7	Anthracene	40.6	U	40.6	210	ug/Kg
86-74-8	Carbazole	38.0	U	38.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.3	U	58.3	210	ug/Kg
206-44-0	Fluoranthene	36.5	U	36.5	210	ug/Kg
129-00-0	Pyrene	43.8	U	43.8	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.9	U	86.9	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.7	U	44.7	400	ug/Kg
56-55-3	Benzo(a)anthracene	28.0	U	28.0	210	ug/Kg
218-01-9	Chrysene	24.2	U	24.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	J	72.1	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.1	U	23.1	210	ug/Kg

Raw Data: **BF142505.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.3	U	27.3	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.9	U	35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.4	U	35.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.4	U	33.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.3	U	31.3	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.2	U	31.2	210	ug/Kg
123-91-1	1,4-Dioxane	55.0	U	55.0	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.4	U	33.4	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.7		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	87.8		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.1		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.4		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.3		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	44.8		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.898			
1146-65-2	Naphthalene-d8	393000	8.181			
15067-26-2	Acenaphthene-d10	211000	9.934			
1517-22-2	Phenanthrene-d10	363000	11.422			
1719-03-5	Chrysene-d12	195000	14.063			
1520-96-3	Perylene-d12	215000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB		5.12	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	360	J		11.9	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	120	J		13.9	ug/Kg
000630-01-3	Hexacosane	86.9	J		14.3	ug/Kg
000630-04-6	Hentriacontane	86.9	J		14.8	ug/Kg

Raw Data: **BF142505.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

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: **BF142484.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.6	U	43.6	200	ug/Kg
98-86-2	Acetophenone	34.3	U	34.3	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.8	U	47.8	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.1	U	55.1	92.9	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.1	U	38.1	200	ug/Kg
88-75-5	2-Nitrophenol	67.6	U	67.6	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.3	U	75.3	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.8	U	35.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.9	U	32.9	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	U	29.4	200	ug/Kg
105-60-2	Caprolactam	60.5	U	60.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.7	U	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.8	U	33.8	200	ug/Kg
92-52-4	1,1-Biphenyl	25.3	U	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.9	U	55.9	200	ug/Kg
131-11-3	Dimethylphthalate	31.5	U	31.5	200	ug/Kg

Raw Data: **BF142484.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.6	U	33.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.4	U	53.4	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.2	U	58.2	200	ug/Kg
84-66-2	Diethylphthalate	32.9	U	32.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	29.4	U	29.4	200	ug/Kg
100-01-6	4-Nitroaniline	74.6	U	74.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.3	U	32.3	200	ug/Kg
118-74-1	Hexachlorobenzene	29.4	U	29.4	200	ug/Kg
1912-24-9	Atrazine	39.5	U	39.5	200	ug/Kg
87-86-5	Pentachlorophenol	59.6	U	59.6	380	ug/Kg
85-01-8	Phenanthrene	24.3	U	24.3	200	ug/Kg
120-12-7	Anthracene	38.7	U	38.7	200	ug/Kg
86-74-8	Carbazole	36.2	U	36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.7	U	55.7	200	ug/Kg
206-44-0	Fluoranthene	34.9	U	34.9	200	ug/Kg
129-00-0	Pyrene	41.8	U	41.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.0	U	83.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.7	U	26.7	200	ug/Kg
218-01-9	Chrysene	23.1	U	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.8	U	68.8	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.1	U	22.1	200	ug/Kg

Raw Data: **BF142484.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.0	U	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.3	U	34.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.8	U	33.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.9	U	29.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.5	U	52.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.4		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.2		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.0		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.8		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.0		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	35.3		10 - 105	35%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68500	6.898			
1146-65-2	Naphthalene-d8	265000	8.181			
15067-26-2	Acenaphthene-d10	144000	9.933			
1517-22-2	Phenanthrene-d10	270000	11.421			
1719-03-5	Chrysene-d12	248000	14.068			
1520-96-3	Perylene-d12	223000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB		5.09	ug/Kg
000119-61-9	Benzophenone	190	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		11.9	ug/Kg
018835-33-1	1-Hexacosene	140	J		13.9	ug/Kg

Raw Data: **BF142484.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

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: **BF142515.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.8	U	24.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.2	U	27.2	190	ug/Kg
95-57-8	2-Chlorophenol	27.3	U	27.3	190	ug/Kg
95-48-7	2-Methylphenol	33.5	U	33.5	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.0	U	42.0	190	ug/Kg
98-86-2	Acetophenone	33.0	U	33.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.0	U	46.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.1	U	53.1	89.6	ug/Kg
67-72-1	Hexachloroethane	19.7	U	19.7	190	ug/Kg
98-95-3	Nitrobenzene	20.5	U	20.5	190	ug/Kg
78-59-1	Isophorone	36.7	U	36.7	190	ug/Kg
88-75-5	2-Nitrophenol	65.2	U	65.2	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.6	U	72.6	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.5	U	34.5	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.7	U	31.7	190	ug/Kg
91-20-3	Naphthalene	25.4	U	25.4	190	ug/Kg
106-47-8	4-Chloroaniline	39.6	U	39.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.3	U	28.3	190	ug/Kg
105-60-2	Caprolactam	58.3	U	58.3	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.1	U	32.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.7	U	28.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.2	U	22.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.6	U	32.6	190	ug/Kg
92-52-4	1,1-Biphenyl	24.4	U	24.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.2	U	25.2	190	ug/Kg
88-74-4	2-Nitroaniline	53.9	U	53.9	190	ug/Kg
131-11-3	Dimethylphthalate	30.4	U	30.4	190	ug/Kg

Raw Data: **BF142515.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.4	U	32.4	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.6	U	37.6	190	ug/Kg
99-09-2	3-Nitroaniline	51.5	U	51.5	190	ug/Kg
83-32-9	Acenaphthene	23.9	U	23.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.4	U	25.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.1	U	56.1	190	ug/Kg
84-66-2	Diethylphthalate	31.7	U	31.7	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.9	U	29.9	190	ug/Kg
86-73-7	Fluorene	28.3	U	28.3	190	ug/Kg
100-01-6	4-Nitroaniline	71.9	U	71.9	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.8	U	36.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.1	U	31.1	190	ug/Kg
118-74-1	Hexachlorobenzene	28.3	U	28.3	190	ug/Kg
1912-24-9	Atrazine	38.1	U	38.1	190	ug/Kg
87-86-5	Pentachlorophenol	57.5	U	57.5	370	ug/Kg
85-01-8	Phenanthrene	140	J	23.4	190	ug/Kg
120-12-7	Anthracene	37.3	U	37.3	190	ug/Kg
86-74-8	Carbazole	34.9	U	34.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.6	U	53.6	190	ug/Kg
206-44-0	Fluoranthene	440		33.6	190	ug/Kg
129-00-0	Pyrene	300		40.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.0	U	80.0	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.1	U	41.1	370	ug/Kg
56-55-3	Benzo(a)anthracene	180	J	25.8	190	ug/Kg
218-01-9	Chrysene	200		22.3	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.3	U	66.3	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.2	U	97.2	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	320		21.3	190	ug/Kg

Raw Data: **BF142515.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	79.1	J	25.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	200		33.0	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.9	J	32.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.7	U	30.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	J	28.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.7	U	28.7	190	ug/Kg
123-91-1	1,4-Dioxane	50.6	U	50.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.7	U	30.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	66.5		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	67.0		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	41.0		18 - 107	41%	SPK: 100
321-60-8	2-Fluorobiphenyl	39.6		20 - 109	40%	SPK: 100
118-79-6	2,4,6-Tribromophenol	61.3		10 - 116	41%	SPK: 150
1718-51-0	Terphenyl-d14	33.1		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.898			
1146-65-2	Naphthalene-d8	356000	8.181			
15067-26-2	Acenaphthene-d10	156000	9.934			
1517-22-2	Phenanthrene-d10	249000	11.422			
1719-03-5	Chrysene-d12	190000	14.063			
1520-96-3	Perylene-d12	152000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.11	ug/Kg
000119-61-9	Benzophenone	150	J		10.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	160	J		11.9	ug/Kg
003452-07-1	1-Eicosene	80.6	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	140	J		15.4	ug/Kg

Raw Data: **BF142515.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

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: **BF142506.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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

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	28.3	U	28.3	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	38.3	U	38.3	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.0	U	48.0	220	ug/Kg
98-86-2	Acetophenone	37.8	U	37.8	220	ug/Kg
65794-96-9	3+4-Methylphenols	52.6	U	52.6	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	60.7	U	60.7	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	42.0	U	42.0	220	ug/Kg
88-75-5	2-Nitrophenol	74.5	U	74.5	220	ug/Kg
105-67-9	2,4-Dimethylphenol	82.9	U	82.9	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	29.1	U	29.1	220	ug/Kg
106-47-8	4-Chloroaniline	45.3	U	45.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.4	U	32.4	220	ug/Kg
105-60-2	Caprolactam	66.7	U	66.7	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	36.7	U	36.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	32.8	U	32.8	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	61.6	U	61.6	220	ug/Kg
131-11-3	Dimethylphthalate	34.7	U	34.7	220	ug/Kg

Raw Data: **BF142506.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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.0	U	37.0	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.0	U	43.0	220	ug/Kg
99-09-2	3-Nitroaniline	58.9	U	58.9	220	ug/Kg
83-32-9	Acenaphthene	27.3	U	27.3	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	29.1	U	29.1	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.1	U	64.1	220	ug/Kg
84-66-2	Diethylphthalate	36.2	U	36.2	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.2	U	34.2	220	ug/Kg
86-73-7	Fluorene	32.4	U	32.4	220	ug/Kg
100-01-6	4-Nitroaniline	82.2	U	82.2	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.1	U	42.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.6	U	35.6	220	ug/Kg
118-74-1	Hexachlorobenzene	32.4	U	32.4	220	ug/Kg
1912-24-9	Atrazine	43.5	U	43.5	220	ug/Kg
87-86-5	Pentachlorophenol	65.7	U	65.7	420	ug/Kg
85-01-8	Phenanthrene	26.8	U	26.8	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	61.3	U	61.3	220	ug/Kg
206-44-0	Fluoranthene	38.4	U	38.4	220	ug/Kg
129-00-0	Pyrene	46.1	U	46.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	91.4	U	91.4	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.0	U	47.0	420	ug/Kg
56-55-3	Benzo(a)anthracene	29.4	U	29.4	220	ug/Kg
218-01-9	Chrysene	25.5	U	25.5	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	75.8	U	75.8	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: **BF142506.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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	28.7	U	28.7	220	ug/Kg
50-32-8	Benzo(a)pyrene	37.8	U	37.8	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	35.1	U	35.1	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32.9	U	32.9	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	32.8	U	32.8	220	ug/Kg
123-91-1	1,4-Dioxane	57.9	U	57.9	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.1	U	35.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.9		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	81.2		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.9		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.9		20 - 109	45%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.7		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	50.8		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	6.898			
1146-65-2	Naphthalene-d8	439000	8.181			
15067-26-2	Acenaphthene-d10	235000	9.934			
1517-22-2	Phenanthrene-d10	407000	11.422			
1719-03-5	Chrysene-d12	208000	14.063			
1520-96-3	Perylene-d12	225000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.12	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	150	J		13.9	ug/Kg

Raw Data: **BF142506.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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

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

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

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

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168083BL	PB168083BL	2-Fluorophenol	150	114	76		18	112
		Phenol-d6	150	111	74		15	107
		Nitrobenzene-d5	100	67.4	67		18	107
		2-Fluorobiphenyl	100	69.4	69		20	109
		2,4,6-Tribromophenol	150	128	85		10	116
		Terphenyl-d14	100	62.4	62		10	105
PB168083BS	PB168083BS	2-Fluorophenol	150	107	71		18	112
		Phenol-d6	150	115	76		15	107
		Nitrobenzene-d5	100	69.4	69		18	107
		2-Fluorobiphenyl	100	66.0	66		20	109
		2,4,6-Tribromophenol	150	117	78		10	116
		Terphenyl-d14	100	81.6	82		10	105
Q2074-01	TP-12	2-Fluorophenol	150	82.6	55		18	112
		Phenol-d6	150	79.8	53		15	107
		Nitrobenzene-d5	100	52.4	52		18	107
		2-Fluorobiphenyl	100	48.9	49		20	109
		2,4,6-Tribromophenol	150	74.1	49		10	116
		Terphenyl-d14	100	37.7	38		10	105
Q2074-02	TP-7	2-Fluorophenol	150	86.5	58		18	112
		Phenol-d6	150	89.6	60		15	107
		Nitrobenzene-d5	100	53.5	54		18	107
		2-Fluorobiphenyl	100	50.0	50		20	109
		2,4,6-Tribromophenol	150	92.4	62		10	116
		Terphenyl-d14	100	38.1	38		10	105
Q2074-03	TP-15	2-Fluorophenol	150	70.2	47		18	112
		Phenol-d6	150	72.2	48		15	107
		Nitrobenzene-d5	100	43.7	44		18	107
		2-Fluorobiphenyl	100	42.0	42		20	109
		2,4,6-Tribromophenol	150	69.0	46		10	116
		Terphenyl-d14	100	40.8	41		10	105
Q2074-04	TP-20	2-Fluorophenol	150	86.5	58		18	112
		Phenol-d6	150	87.7	58		15	107
		Nitrobenzene-d5	100	50.7	51		18	107
		2-Fluorobiphenyl	100	46.6	47		20	109
		2,4,6-Tribromophenol	150	85.8	57		10	116
		Terphenyl-d14	100	40.0	40		10	105
Q2074-05	TP-38	2-Fluorophenol	150	86.7	58		18	112
		Phenol-d6	150	87.8	59		15	107
		Nitrobenzene-d5	100	54.1	54		18	107
		2-Fluorobiphenyl	100	47.4	47		20	109
		2,4,6-Tribromophenol	150	90.3	60		10	116
		Terphenyl-d14	100	44.8	45		10	105
Q2074-06	TP-19	2-Fluorophenol	150	79.4	53		18	112
		Phenol-d6	150	81.2	54		15	107
		Nitrobenzene-d5	100	47.0	47		18	107
		2-Fluorobiphenyl	100	45.8	46		20	109
		2,4,6-Tribromophenol	150	83.0	55		10	116
		Terphenyl-d14	100	35.3	35		10	105
Q2074-07	TP-40	2-Fluorophenol	150	66.5	44		18	112
		Phenol-d6	150	67.0	45		15	107
		Nitrobenzene-d5	100	41.0	41		18	107

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

Surrogate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2074-07	TP-40	2-Fluorobiphenyl	100	39.6	40		20	109
		2,4,6-Tribromophenol	150	61.3	41		10	116
		Terphenyl-d14	100	33.1	33		10	105
Q2074-08	TP-18	2-Fluorophenol	150	77.9	52		18	112
		Phenol-d6	150	81.2	54		15	107
		Nitrobenzene-d5	100	45.9	46		18	107
		2-Fluorobiphenyl	100	44.9	45		20	109
		2,4,6-Tribromophenol	150	83.7	56		10	116
		Terphenyl-d14	100	50.8	51		10	105
Q2075-04MS	SS-11MS	2-Fluorophenol	150	97.6	65		18	112
		Phenol-d6	150	97.8	65		15	107
		Nitrobenzene-d5	100	60.4	60		18	107
		2-Fluorobiphenyl	100	51.6	52		20	109
		2,4,6-Tribromophenol	150	113	76		10	116
		Terphenyl-d14	100	41.5	41		10	105
Q2075-05MSD	SS-11MSD	2-Fluorophenol	150	95.8	64		18	112
		Phenol-d6	150	95.6	64		15	107
		Nitrobenzene-d5	100	59.6	60		18	107
		2-Fluorobiphenyl	100	54.4	54		20	109
		2,4,6-Tribromophenol	150	106	71		10	116
		Terphenyl-d14	100	40.2	40		10	105

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

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: Q2075-04MS		**Client Sample ID: SS-11MS**						**DataFile: BF142487.D**			
Benzaldehyde	1900	0	1500	ug/Kg	79				10	86	
Phenol	1900	0	1600	ug/Kg	84				67	126	
bis(2-Chloroethyl)ether	1900	0	1500	ug/Kg	79				54	125	
2-Chlorophenol	1900	0	1600	ug/Kg	84				79	107	
2-Methylphenol	1900	0	1500	ug/Kg	79				66	122	
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79				65	110	
Acetophenone	1900	0	1700	ug/Kg	89				75	111	
3+4-Methylphenols	1900	0	1500	ug/Kg	79				66	104	
N-Nitroso-di-n-propylamine	1900	0	1500	ug/Kg	79				59	119	
Hexachloroethane	1900	0	1500	ug/Kg	79				65	117	
Nitrobenzene	1900	0	1600	ug/Kg	84				70	119	
Isophorone	1900	0	1500	ug/Kg	79				76	122	
2-Nitrophenol	1900	0	1600	ug/Kg	84				54	145	
2,4-Dimethylphenol	1900	0	1600	ug/Kg	84				44	135	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				68	112	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				72	118	
Naphthalene	1900	0	1600	ug/Kg	84				72	110	
4-Chloroaniline	1900	0	390	ug/Kg	21				10	91	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				66	114	
Caprolactam	1900	0	2100	ug/Kg	111				51	134	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				57	132	
2-Methylnaphthalene	1900	0	1600	ug/Kg	84				59	123	
Hexachlorocyclopentadiene	3800	0	2800	ug/Kg	74				10	175	
2,4,6-Trichlorophenol	1900	0	1500	ug/Kg	79				72	117	
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84				72	117	
1,1-Biphenyl	1900	0	1600	ug/Kg	84				75	113	
2-Chloronaphthalene	1900	0	1500	ug/Kg	79				67	118	
2-Nitroaniline	1900	0	1700	ug/Kg	89				69	127	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70	113	
Acenaphthylene	1900	0	1600	ug/Kg	84				79	118	
2,6-Dinitrotoluene	1900	0	1700	ug/Kg	89				70	125	
3-Nitroaniline	1900	0	1100	ug/Kg	58				30	99	
Acenaphthene	1900	0	1800	ug/Kg	95				70	121	
2,4-Dinitrophenol	3800	0	4100	ug/Kg	108				10	155	
4-Nitrophenol	3800	0	4300	ug/Kg	113				45	133	
Dibenzofuran	1900	0	1600	ug/Kg	84				72	110	
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100				55	128	
Diethylphthalate	1900	0	1700	ug/Kg	89				70	112	
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84				71	108	
Fluorene	1900	0	1700	ug/Kg	89				68	116	
4-Nitroaniline	1900	0	2100	ug/Kg	111				55	120	
4,6-Dinitro-2-methylphenol	1900	0	1800	ug/Kg	95				10	160	
N-Nitrosodiphenylamine	1900	0	1500	ug/Kg	79				73	118	
4-Bromophenyl-phenylether	1900	0	1400	ug/Kg	74				65	121	
Hexachlorobenzene	1900	0	1500	ug/Kg	79				67	118	
Atrazine	1900	0	2000	ug/Kg	105				79	127	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

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	3800	0	3500	ug/Kg	92				47	128	
Phenanthrene	1900	0	1600	ug/Kg	84				52	128	
Anthracene	1900	0	1700	ug/Kg	89				62	124	
Carbazole	1900	0	1900	ug/Kg	100				59	119	
Di-n-butylphthalate	1900	0	2000	ug/Kg	105				69	118	
Fluoranthene	1900	120	2200	ug/Kg	109				44	125	
Pyrene	1900	0	1300	ug/Kg	68				26	142	
Butylbenzylphthalate	1900	0	1900	ug/Kg	100				64	126	
3,3-Dichlorobenzidine	1900	0	720	ug/Kg	38				33	116	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				71	114	
Chrysene	1900	0	1600	ug/Kg	84				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	2100	ug/Kg	111				42	169	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				23	175	
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100				67	121	
Benzo(k)fluoranthene	1900	0	1600	ug/Kg	84				57	134	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1400	ug/Kg	74				40	129	
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74				43	123	
Benzo(g,h,i)perylene	1900	0	1300	ug/Kg	68				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1500	ug/Kg	79				69	124	
1,4-Dioxane	1900	0	1400	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				69	112	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

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: Q2075-05MSD		**Client Sample ID: SS-11MSD**						**DataFile: BF142488.D**			
Benzaldehyde	1900	0	1400	ug/Kg	74		7		10	86	20
Phenol	1900	0	1500	ug/Kg	79		6		67	126	20
bis(2-Chloroethyl)ether	1900	0	1500	ug/Kg	79		0		54	125	20
2-Chlorophenol	1900	0	1500	ug/Kg	79		6		79	107	20
2-Methylphenol	1900	0	1500	ug/Kg	79		0		66	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79		0		65	110	20
Acetophenone	1900	0	1600	ug/Kg	84		6		75	111	20
3+4-Methylphenols	1900	0	1500	ug/Kg	79		0		66	104	20
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74		7		59	119	20
Hexachloroethane	1900	0	1500	ug/Kg	79		0		65	117	20
Nitrobenzene	1900	0	1600	ug/Kg	84		0		70	119	20
Isophorone	1900	0	1500	ug/Kg	79		0		76	122	20
2-Nitrophenol	1900	0	1600	ug/Kg	84		0		54	145	20
2,4-Dimethylphenol	1900	0	1500	ug/Kg	79		6		44	135	20
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79		0		68	112	20
2,4-Dichlorophenol	1900	0	1500	ug/Kg	79		6		72	118	20
Naphthalene	1900	0	1600	ug/Kg	84		0		72	110	20
4-Chloroaniline	1900	0	390	ug/Kg	21		0		10	91	20
Hexachlorobutadiene	1900	0	1500	ug/Kg	79		6		66	114	20
Caprolactam	1900	0	1800	ug/Kg	95		16		51	134	20
4-Chloro-3-methylphenol	1900	0	1500	ug/Kg	79		6		57	132	20
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		6		59	123	20
Hexachlorocyclopentadiene	3800	0	3100	ug/Kg	82		10		10	175	20
2,4,6-Trichlorophenol	1900	0	1600	ug/Kg	84		6		72	117	20
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84		0		72	117	20
1,1-Biphenyl	1900	0	1600	ug/Kg	84		0		75	113	20
2-Chloronaphthalene	1900	0	1600	ug/Kg	84		6		67	118	20
2-Nitroaniline	1900	0	1700	ug/Kg	89		0		69	127	20
Dimethylphthalate	1900	0	1600	ug/Kg	84		0		70	113	20
Acenaphthylene	1900	0	1600	ug/Kg	84		0		79	118	20
2,6-Dinitrotoluene	1900	0	1600	ug/Kg	84		6		70	125	20
3-Nitroaniline	1900	0	1000	ug/Kg	53		9		30	99	20
Acenaphthene	1900	0	1800	ug/Kg	95		0		70	121	20
2,4-Dinitrophenol	3800	0	3700	ug/Kg	97		11		10	155	20
4-Nitrophenol	3800	0	4100	ug/Kg	108		5		45	133	20
Dibenzofuran	1900	0	1600	ug/Kg	84		0		72	110	20
2,4-Dinitrotoluene	1900	0	1800	ug/Kg	95		5		55	128	20
Diethylphthalate	1900	0	1600	ug/Kg	84		6		70	112	20
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		0		71	108	20
Fluorene	1900	0	1600	ug/Kg	84		6		68	116	20
4-Nitroaniline	1900	0	1900	ug/Kg	100		10		55	120	20
4,6-Dinitro-2-methylphenol	1900	0	1700	ug/Kg	89		7		10	160	20
N-Nitrosodiphenylamine	1900	0	1500	ug/Kg	79		0		73	118	20
4-Bromophenyl-phenylether	1900	0	1400	ug/Kg	74		0		65	121	20
Hexachlorobenzene	1900	0	1500	ug/Kg	79		0		67	118	20
Atrazine	1900	0	1900	ug/Kg	100		5		79	127	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3400	ug/Kg	89		3		47	128	20
Phenanthrene	1900	0	1700	ug/Kg	89		6		52	128	20
Anthracene	1900	0	1700	ug/Kg	89		0		62	124	20
Carbazole	1900	0	1900	ug/Kg	100		0		59	119	20
Di-n-butylphthalate	1900	0	1900	ug/Kg	100		5		69	118	20
Fluoranthene	1900	120	2300	ug/Kg	115		5		44	125	20
Pyrene	1900	0	1300	ug/Kg	68		0		26	142	20
Butylbenzylphthalate	1900	0	1900	ug/Kg	100		0		64	126	20
3,3-Dichlorobenzidine	1900	0	770	ug/Kg	41		8		33	116	20
Benzo(a)anthracene	1900	0	1600	ug/Kg	84		6		71	114	20
Chrysene	1900	0	1600	ug/Kg	84		0		57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	2000	ug/Kg	105		6		42	169	20
Di-n-octyl phthalate	1900	0	1600	ug/Kg	84		6		23	175	20
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89		12		67	121	20
Benzo(k)fluoranthene	1900	0	1700	ug/Kg	89		6		57	134	20
Benzo(a)pyrene	1900	0	1700	ug/Kg	89		0		70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1400	ug/Kg	74		0		40	129	20
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68		8		43	123	20
Benzo(g,h,i)perylene	1900	0	1300	ug/Kg	68		0		24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1600	ug/Kg	84		6		69	124	20
1,4-Dioxane	1900	0	1400	ug/Kg	74		0		46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1600	ug/Kg	84		6		69	112	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168083BS	Benzaldehyde	1700	1200	ug/Kg	71				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1300	ug/Kg	76				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1300	ug/Kg	76				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	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	640	ug/Kg	38				16	100	
	Hexachlorobutadiene	1700	1300	ug/Kg	76				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				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	1300	ug/Kg	76				57	103	
	2-Chloronaphthalene	1700	1300	ug/Kg	76				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1300	ug/Kg	76				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	890	ug/Kg	52				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	2,4-Dinitrophenol	3300	3300	ug/Kg	100				37	128	
	4-Nitrophenol	3300	3000	ug/Kg	91				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1300	ug/Kg	76				58	98	
	Fluorene	1700	1300	ug/Kg	76				61	101	
	4-Nitroaniline	1700	1500	ug/Kg	88				64	103	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				76	113	
	N-Nitrosodiphenylamine	1700	1300	ug/Kg	76				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168083BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	2800	ug/Kg	85				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1300	ug/Kg	76				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	810	ug/Kg	48				42	91	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1300	ug/Kg	76				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168083BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142479.D Lab Sample ID: PB168083BL

Instrument ID: BNA_F Date Extracted: 05/20/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/21/2025

Level: (low/med) LOW Time Analyzed: 11:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168083BS	PB168083BS	BF142480.D	05/21/2025
TP-7	Q2074-02	BF142481.D	05/21/2025
TP-20	Q2074-04	BF142482.D	05/21/2025
TP-19	Q2074-06	BF142484.D	05/21/2025
SS-11MS	Q2075-04MS	BF142487.D	05/21/2025
SS-11MSD	Q2075-05MSD	BF142488.D	05/21/2025
TP-38	Q2074-05	BF142505.D	05/22/2025
TP-18	Q2074-08	BF142506.D	05/22/2025
TP-12	Q2074-01	BF142513.D	05/22/2025
TP-15	Q2074-03	BF142514.D	05/22/2025
TP-40	Q2074-07	BF142515.D	05/22/2025

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

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

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142477.D DFTPP Injection Date: 05/21/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
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	29.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	18.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142478.D	05/21/2025	10:40
PB168083BL	PB168083BL	BF142479.D	05/21/2025	11:09
PB168083BS	PB168083BS	BF142480.D	05/21/2025	11:37
TP-7	Q2074-02	BF142481.D	05/21/2025	12:14
TP-20	Q2074-04	BF142482.D	05/21/2025	12:43
TP-19	Q2074-06	BF142484.D	05/21/2025	13:40
SS-11MS	Q2075-04MS	BF142487.D	05/21/2025	15:06
SS-11MSD	Q2075-05MSD	BF142488.D	05/21/2025	15:34

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142501.D DFTPP Injection Date: 05/22/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.5
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.8
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	30.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	20.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.7 (18.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142502.D	05/22/2025	11:11
TP-38	Q2074-05	BF142505.D	05/22/2025	12:42
TP-18	Q2074-08	BF142506.D	05/22/2025	13:11
TP-12	Q2074-01	BF142513.D	05/22/2025	16:34
TP-15	Q2074-03	BF142514.D	05/22/2025	17:03
TP-40	Q2074-07	BF142515.D	05/22/2025	17:32

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BF142478.D Time Analyzed: 10:40

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	124102	6.898	475212	8.19	258765	9.94
	UPPER LIMIT	248204	7.398	950424	8.686	517530	10.439
	LOWER LIMIT	62051	6.398	237606	7.686	129383	9.439
	EPA SAMPLE NO.						
01	PB168083BL	127003	6.90	492428	8.18	264579	9.94
02	PB168083BS	124824	6.90	495438	8.19	277044	9.94
03	TP-7	88091	6.90	330115	8.18	169428	9.94
04	TP-20	78241	6.90	292583	8.18	152289	9.93
05	TP-19	68503	6.90	265449	8.18	143783	9.93
06	SS-11MS	54835 *	6.90	200654 *	8.18	113830 *	9.94
07	SS-11MSD	53473 *	6.90	192497 *	8.18	95696 *	9.94

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BF142478.D Time Analyzed: 10:40

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	454448	11.427	231233	14.068	233183	15.562
	UPPER LIMIT	908896	11.927	462466	14.568	466366	16.062
	LOWER LIMIT	227224	10.927	115617	13.568	116592	15.062
	EPA SAMPLE NO.						
01	PB168083BL	511963	11.43	324877	14.07	234653	15.56
02	PB168083BS	468851	11.43	214548	14.07	229705	15.56
03	TP-7	293973	11.42	263519	14.06	238889	15.56
04	TP-20	263354	11.42	229725	14.06	197920	15.56
05	TP-19	270138	11.42	248278	14.07	222913	15.56
06	SS-11MS	229012	11.43	210926	14.07	176162	15.56
07	SS-11MSD	179294 *	11.43	174160	14.07	147670	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.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2025

Lab File ID: BF142502.D Time Analyzed: 11:11

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	96659	6.898	372701	8.19	197309	9.94
	UPPER LIMIT	193318	7.398	745402	8.687	394618	10.439
	LOWER LIMIT	48329.5	6.398	186351	7.687	98654.5	9.439
	EPA SAMPLE NO.						
01	TP-12	100796	6.90	331984	8.18	141613	9.93
02	TP-15	111156	6.90	403247	8.18	196334	9.93
03	TP-38	105231	6.90	393023	8.18	211306	9.93
04	TP-40	105109	6.90	356070	8.18	155651	9.93
05	TP-18	114998	6.90	438934	8.18	234734	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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2025

Lab File ID: BF142502.D Time Analyzed: 11:11

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	315055	11.428	157895	14.069	195527	15.557
	UPPER LIMIT	630110	11.928	315790	14.569	391054	16.057
	LOWER LIMIT	157528	10.928	78947.5	13.569	97763.5	15.057
	EPA SAMPLE NO.						
01	TP-12	236489	11.42	182992	14.06	150268	15.56
02	TP-15	331001	11.42	212263	14.06	172640	15.56
03	TP-38	363178	11.42	195335	14.06	215007	15.56
04	TP-40	248584	11.42	190159	14.06	152099	15.56
05	TP-18	406523	11.42	207782	14.06	225144	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: **BF142479.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:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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	80.0	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	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	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	52.1	U	52.1	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

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:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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	50.1	U	50.1	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	64.2	U	64.2	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	51.3	U	51.3	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	71.4	U	71.4	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	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.8	U	86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

Raw Data: **BF142479.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:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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	114		18 - 112	76%	SPK: 150
13127-88-3	Phenol-d6	111		15 - 107	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.4		18 - 107	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		20 - 109	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		10 - 116	85%	SPK: 150
1718-51-0	Terphenyl-d14	62.4		10 - 105	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	492000	8.181			
15067-26-2	Acenaphthene-d10	265000	9.939			
1517-22-2	Phenanthrene-d10	512000	11.428			
1719-03-5	Chrysene-d12	325000	14.069			
1520-96-3	Perylene-d12	235000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	A		5.13	ug/Kg

Raw Data: **BF142479.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:	PB168083BL			SDG No.:	Q2074
Lab Sample ID:	PB168083BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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: **BF142480.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:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	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
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1300		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1300		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		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	640		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1300		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		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	1300		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1300		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1400		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1400		27.1	170	ug/Kg

Raw Data: **BF142480.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:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	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
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1300		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	890		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3000	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1300		26.7	170	ug/Kg
86-73-7	Fluorene	1300		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1500		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		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	2800	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1400		20.9	170	ug/Kg
120-12-7	Anthracene	1300		33.3	170	ug/Kg
86-74-8	Carbazole	1400		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	810		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		23.0	170	ug/Kg
218-01-9	Chrysene	1400		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

Raw Data: **BF142480.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:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	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
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		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	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1300		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	115		15 - 107	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.4		18 - 107	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.0		20 - 109	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		10 - 116	78%	SPK: 150
1718-51-0	Terphenyl-d14	81.6		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125000	6.898			
1146-65-2	Naphthalene-d8	495000	8.186			
15067-26-2	Acenaphthene-d10	277000	9.939			
1517-22-2	Phenanthrene-d10	469000	11.427			
1719-03-5	Chrysene-d12	215000	14.068			
1520-96-3	Perylene-d12	230000	15.562			

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: **BF142487.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		180	380	ug/Kg
108-95-2	Phenol	1600		25.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.7	190	ug/Kg
95-57-8	2-Chlorophenol	1600		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.8	190	ug/Kg
98-86-2	Acetophenone	1700		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		46.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		54.1	91.3	ug/Kg
67-72-1	Hexachloroethane	1500		20.1	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.9	190	ug/Kg
78-59-1	Isophorone	1500		37.4	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.4	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		74.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		28.9	190	ug/Kg
105-60-2	Caprolactam	2100		59.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		29.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800		130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.2	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1500		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		54.9	190	ug/Kg
131-11-3	Dimethylphthalate	1600		30.9	190	ug/Kg

Raw Data: **BF142487.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1100		52.5	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4300	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		57.2	190	ug/Kg
84-66-2	Diethylphthalate	1700		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1700		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	2100		73.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.7	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	2000		38.8	190	ug/Kg
87-86-5	Pentachlorophenol	3500	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1600		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.0	190	ug/Kg
86-74-8	Carbazole	1900		35.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	2000		54.7	190	ug/Kg
206-44-0	Fluoranthene	2200		34.2	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1700		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		67.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		99.1	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.7	190	ug/Kg

Raw Data: **BF142487.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		33.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		29.2	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.6		18 - 112	65%	SPK: 150
13127-88-3	Phenol-d6	97.8		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.4		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.6		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	41.5		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54800	6.898			
1146-65-2	Naphthalene-d8	201000	8.181			
15067-26-2	Acenaphthene-d10	114000	9.939			
1517-22-2	Phenanthrene-d10	229000	11.427			
1719-03-5	Chrysene-d12	211000	14.068			
1520-96-3	Perylene-d12	176000	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

Raw Data: **BF142488.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		180	380	ug/Kg
108-95-2	Phenol	1500		25.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.8	190	ug/Kg
95-57-8	2-Chlorophenol	1500		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.9	190	ug/Kg
98-86-2	Acetophenone	1600		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		47.0	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		54.2	91.4	ug/Kg
67-72-1	Hexachloroethane	1500		20.1	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.9	190	ug/Kg
78-59-1	Isophorone	1500		37.5	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		74.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	1500		28.9	190	ug/Kg
105-60-2	Caprolactam	1800		59.6	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		29.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1600		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		55.0	190	ug/Kg
131-11-3	Dimethylphthalate	1600		31.0	190	ug/Kg

Raw Data: **BF142488.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		52.6	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		57.3	190	ug/Kg
84-66-2	Diethylphthalate	1600		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1600		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	1900		73.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	1900		38.9	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1700		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.1	190	ug/Kg
86-74-8	Carbazole	1900		35.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		54.8	190	ug/Kg
206-44-0	Fluoranthene	2300		34.3	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	770		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1600		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		67.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		99.2	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		21.7	190	ug/Kg

Raw Data: **BF142488.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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		33.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		29.3	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	95.8		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	95.6		15 - 107	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.6		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.4		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	40.2		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53500	6.898			
1146-65-2	Naphthalene-d8	192000	8.181			
15067-26-2	Acenaphthene-d10	95700	9.939			
1517-22-2	Phenanthrene-d10	179000	11.427			
1719-03-5	Chrysene-d12	174000	14.068			
1520-96-3	Perylene-d12	148000	15.557			

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/21/2025 10:40

Lab File ID: BF142478.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	1.087		-8.4	
Benzaldehyde	0.859	0.796		-7.3	
Phenol-d6	1.429	1.358		-5.0	
Phenol	1.608	1.558		-3.1	20.0
bis(2-Chloroethyl)ether	1.157	1.067		-7.8	
2-Chlorophenol	1.293	1.186		-8.3	
2-Methylphenol	1.010	0.970		-4.0	
2,2-oxybis(1-Chloropropane)	1.944	1.877		-3.4	
Acetophenone	0.443	0.405		-8.6	
3+4-Methylphenols	1.293	1.183		-8.5	
n-Nitroso-di-n-propylamine	0.886	0.800	0.050	-9.7	
Nitrobenzene-d5	0.367	0.343		-6.5	
Hexachloroethane	0.507	0.456		-10.1	
Nitrobenzene	0.331	0.317		-4.2	
Isophorone	0.613	0.568		-7.3	
2-Nitrophenol	0.177	0.174		-1.7	20.0
2,4-Dimethylphenol	0.312	0.300		-3.8	
bis(2-Chloroethoxy)methane	0.383	0.364		-5.0	
2,4-Dichlorophenol	0.283	0.278		-1.8	20.0
Naphthalene	0.985	0.928		-5.8	
4-Chloroaniline	0.399	0.393		-1.5	
Hexachlorobutadiene	0.192	0.182		-5.2	20.0
Caprolactam	0.080	0.084		5.0	
4-Chloro-3-methylphenol	0.291	0.287		-1.4	20.0
2-Methylnaphthalene	0.620	0.570		-8.1	
Hexachlorocyclopentadiene	0.387	0.381	0.050	-1.5	
2,4,6-Trichlorophenol	0.387	0.383		-1.0	20.0
2-Fluorobiphenyl	1.490	1.373		-7.9	
2,4,5-Trichlorophenol	0.408	0.396		-2.9	
1,1-Biphenyl	1.552	1.477		-4.8	
2-Chloronaphthalene	1.146	1.098		-4.2	
2-Nitroaniline	0.331	0.331		0.0	
Dimethylphthalate	1.320	1.241		-6.0	
Acenaphthylene	1.936	1.795		-7.3	
2,6-Dinitrotoluene	0.285	0.278		-2.5	
3-Nitroaniline	0.311	0.312		0.3	
Acenaphthene	1.182	1.125		-4.8	20.0
2,4-Dinitrophenol	0.147	0.159	0.050	8.2	
4-Nitrophenol	0.230	0.243	0.050	5.7	

Alliance TECHNICAL GROUP
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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/21/2025 10:40

Lab File ID: BF142478.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	1.672		-1.7	
2,4-Dinitrotoluene	0.372	0.383		3.0	
Diethylphthalate	1.289	1.286		-0.2	
4-Chlorophenyl-phenylether	0.646	0.606		-6.2	
Fluorene	1.314	1.229		-6.5	
4-Nitroaniline	0.282	0.296		5.0	
4,6-Dinitro-2-methylphenol	0.112	0.119		6.3	
n-Nitrosodiphenylamine	0.684	0.641		-6.3	20.0
2,4,6-Tribromophenol	0.222	0.225		1.4	
4-Bromophenyl-phenylether	0.236	0.219		-7.2	
Hexachlorobenzene	0.262	0.247		-5.7	
Atrazine	0.182	0.186		2.2	
Pentachlorophenol	0.148	0.153		3.4	20.0
Phenanthrene	1.069	0.989		-7.5	
Anthracene	1.091	1.022		-6.3	
Carbazole	0.933	0.929		-0.4	
Di-n-butylphthalate	1.021	1.084		6.2	
Fluoranthene	0.999	0.984		-1.5	20.0
Pyrene	1.866	1.932		3.5	
Terphenyl-d14	1.464	1.466		0.1	
Butylbenzylphthalate	0.516	0.570		10.5	
3,3-Dichlorobenzidine	0.405	0.387		-4.4	
Benzo(a)anthracene	1.336	1.289		-3.5	
Chrysene	1.200	1.116		-7.0	
Bis(2-ethylhexyl)phthalate	0.660	0.620		-6.1	
Di-n-octyl phthalate	1.290	1.049		-18.7	20.0
Benzo(b)fluoranthene	1.184	1.216		2.7	
Benzo(k)fluoranthene	1.109	0.996		-10.2	
Benzo(a)pyrene	1.116	1.061		-4.9	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.409		-6.1	
Dibenzo(a,h)anthracene	1.218	1.156		-5.1	
Benzo(g,h,i)perylene	1.218	1.202		-1.3	
1,2,4,5-Tetrachlorobenzene	0.574	0.545		-5.1	
1,4-Dioxane	0.475	0.429		-9.7	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.346		1.5	

All other compounds must meet a minimum RRF of 0.010.

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/22/2025 11:11

Lab File ID: BF142502.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	1.158		-2.4	
Benzaldehyde	0.859	0.845		-1.6	
Phenol-d6	1.429	1.379		-3.5	
Phenol	1.608	1.566		-2.6	20.0
bis(2-Chloroethyl)ether	1.157	1.111		-4.0	
2-Chlorophenol	1.293	1.264		-2.2	
2-Methylphenol	1.010	0.982		-2.8	
2,2-oxybis(1-Chloropropane)	1.944	1.852		-4.7	
Acetophenone	0.443	0.423		-4.5	
3+4-Methylphenols	1.293	1.242		-3.9	
n-Nitroso-di-n-propylamine	0.886	0.821	0.050	-7.3	
Nitrobenzene-d5	0.367	0.356		-3.0	
Hexachloroethane	0.507	0.483		-4.7	
Nitrobenzene	0.331	0.321		-3.0	
Isophorone	0.613	0.568		-7.3	
2-Nitrophenol	0.177	0.173		-2.3	20.0
2,4-Dimethylphenol	0.312	0.302		-3.2	
bis(2-Chloroethoxy)methane	0.383	0.360		-6.0	
2,4-Dichlorophenol	0.283	0.276		-2.5	20.0
Naphthalene	0.985	0.939		-4.7	
4-Chloroaniline	0.399	0.383		-4.0	
Hexachlorobutadiene	0.192	0.181		-5.7	20.0
Caprolactam	0.080	0.075		-6.3	
4-Chloro-3-methylphenol	0.291	0.277		-4.8	20.0
2-Methylnaphthalene	0.620	0.578		-6.8	
Hexachlorocyclopentadiene	0.387	0.382	0.050	-1.3	
2,4,6-Trichlorophenol	0.387	0.383		-1.0	20.0
2-Fluorobiphenyl	1.490	1.389		-6.8	
2,4,5-Trichlorophenol	0.408	0.386		-5.4	
1,1-Biphenyl	1.552	1.481		-4.6	
2-Chloronaphthalene	1.146	1.107		-3.4	
2-Nitroaniline	0.331	0.322		-2.7	
Dimethylphthalate	1.320	1.214		-8.0	
Acenaphthylene	1.936	1.864		-3.7	
2,6-Dinitrotoluene	0.285	0.267		-6.3	
3-Nitroaniline	0.311	0.303		-2.6	
Acenaphthene	1.182	1.118		-5.4	20.0
2,4-Dinitrophenol	0.147	0.138	0.050	-6.1	
4-Nitrophenol	0.230	0.220	0.050	-4.3	

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/22/2025 11:11

Lab File ID: BF142502.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	1.610		-5.3	
2,4-Dinitrotoluene	0.372	0.356		-4.3	
Diethylphthalate	1.289	1.147		-11.0	
4-Chlorophenyl-phenylether	0.646	0.596		-7.7	
Fluorene	1.314	1.233		-6.2	
4-Nitroaniline	0.282	0.266		-5.7	
4,6-Dinitro-2-methylphenol	0.112	0.111		-0.9	
n-Nitrosodiphenylamine	0.684	0.661		-3.4	20.0
2,4,6-Tribromophenol	0.222	0.208		-6.3	
4-Bromophenyl-phenylether	0.236	0.224		-5.1	
Hexachlorobenzene	0.262	0.251		-4.2	
Atrazine	0.182	0.157		-13.7	
Pentachlorophenol	0.148	0.146		-1.4	20.0
Phenanthrene	1.069	1.009		-5.6	
Anthracene	1.091	1.031		-5.5	
Carbazole	0.933	0.863		-7.5	
Di-n-butylphthalate	1.021	0.823		-19.4	
Fluoranthene	0.999	0.878		-12.1	20.0
Pyrene	1.866	1.705		-8.6	
Terphenyl-d14	1.464	1.259		-14.0	
Butylbenzylphthalate	0.516	0.496		-3.9	
3,3-Dichlorobenzidine	0.405	0.443		9.4	
Benzo(a)anthracene	1.336	1.258		-5.8	
Chrysene	1.200	1.136		-5.3	
Bis(2-ethylhexyl)phthalate	0.660	0.801		21.4	
Di-n-octyl phthalate	1.290	1.410		9.3	20.0
Benzo(b)fluoranthene	1.184	1.087		-8.2	
Benzo(k)fluoranthene	1.109	1.044		-5.9	
Benzo(a)pyrene	1.116	1.078		-3.4	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.416		-5.7	
Dibenzo(a,h)anthracene	1.218	1.143		-6.2	
Benzo(g,h,i)perylene	1.218	1.144		-6.1	
1,2,4,5-Tetrachlorobenzene	0.574	0.562		-2.1	
1,4-Dioxane	0.475	0.470		-1.1	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.325		-4.7	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Time: May 23 01:22:01 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

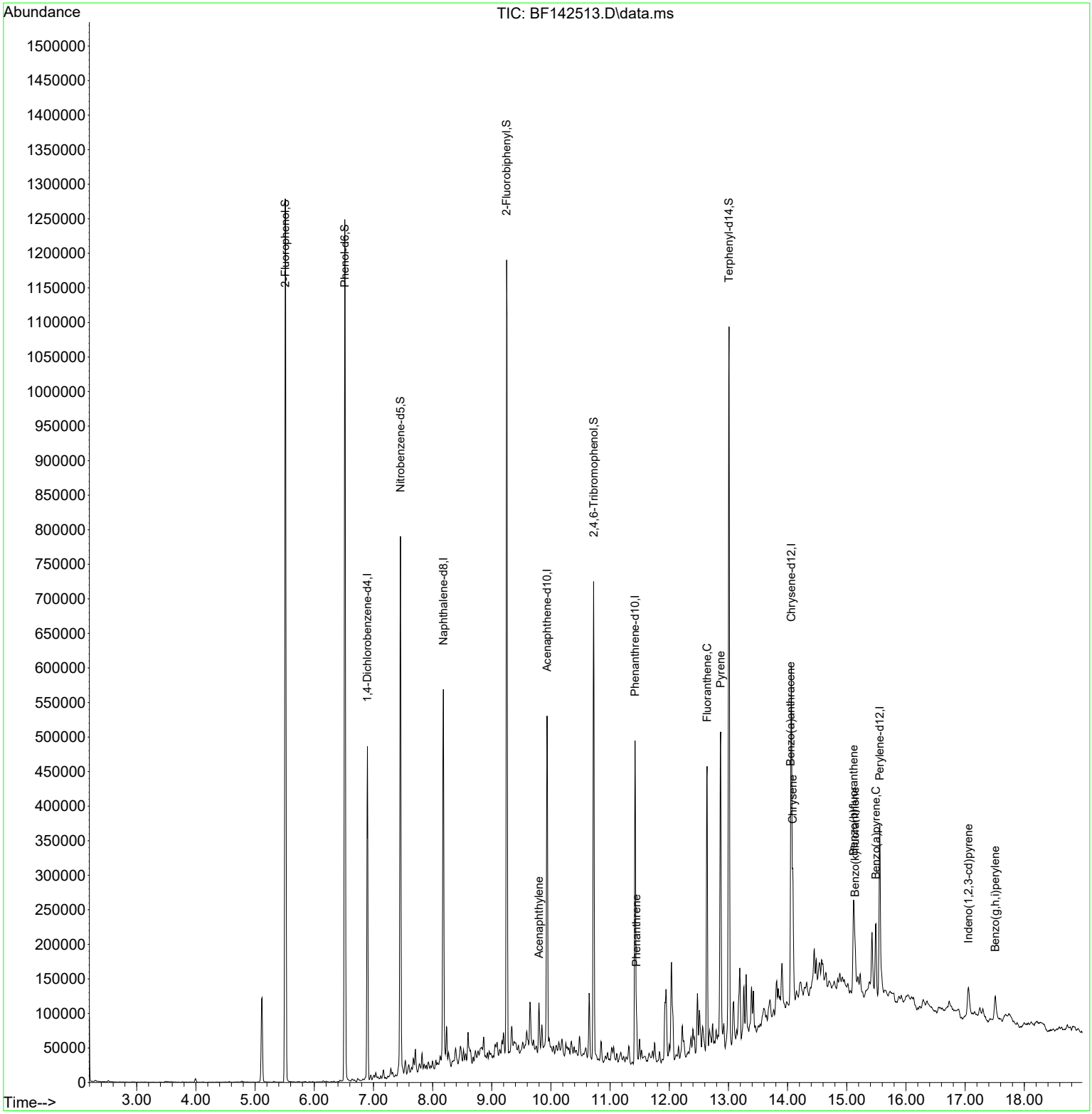
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	100796	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	331984	20.000	ng		0.00
39) Acenaphthene-d10	9.934	164	141613	20.000	ng		-0.01
64) Phenanthrene-d10	11.422	188	236489	20.000	ng		-0.01
76) Chrysene-d12	14.063	240	182992	20.000	ng		-0.01
86) Perylene-d12	15.557	264	150268	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	494096	82.586	ng		0.00
7) Phenol-d6	6.516	99	574621	79.788	ng		-0.02
23) Nitrobenzene-d5	7.457	82	319194	52.428	ng		-0.02
42) 2,4,6-Tribromophenol	10.722	330	116500	74.122	ng		-0.02
45) 2-Fluorobiphenyl	9.251	172	516485	48.940	ng		-0.02
79) Terphenyl-d14	13.010	244	504282	37.659	ng		0.00
Target Compounds							Qvalue
49) Acenaphthylene	9.798	152	31014	2.263	ng		96
71) Phenanthrene	11.445	178	36032	2.851	ng		98
75) Fluoranthene	12.639	202	237713	20.129	ng		100
78) Pyrene	12.869	202	269306	15.776	ng		99
81) Benzo(a)anthracene	14.051	228	93070m	7.617	ng		
83) Chrysene	14.086	228	102605	9.345	ng		98
87) Indeno(1,2,3-cd)pyrene	17.057	276	33902	3.005	ng		97
88) Benzo(b)fluoranthene	15.116	252	101084m	11.366	ng		
89) Benzo(k)fluoranthene	15.139	252	19022m	2.284	ng		
90) Benzo(a)pyrene	15.492	252	64411	7.683	ng	#	97
92) Benzo(g,h,i)perylene	17.510	276	31581	3.451	ng		97

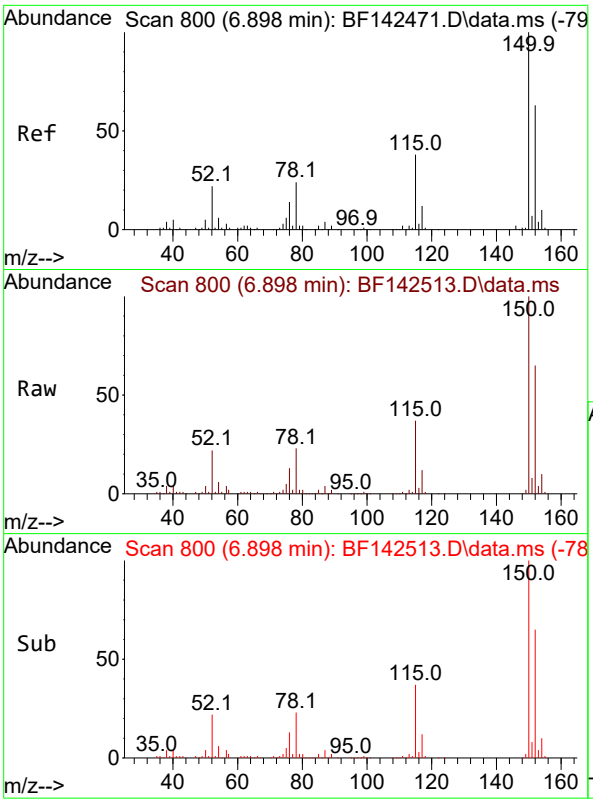
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Time: May 23 01:22:01 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



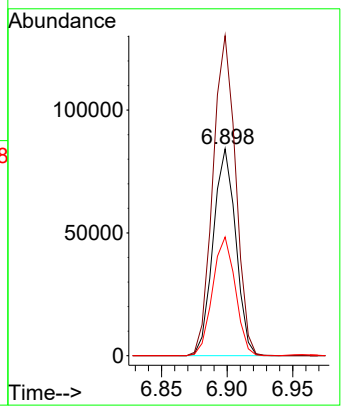


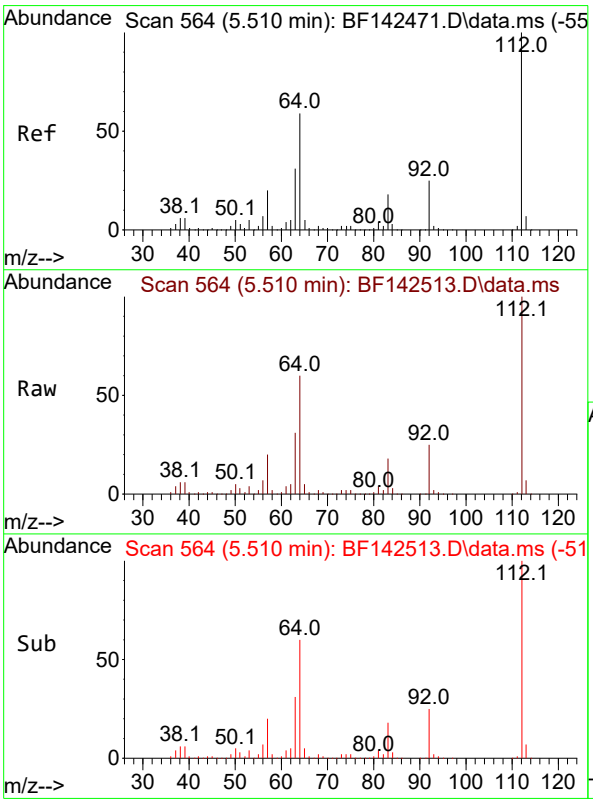
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:152 Resp: 100796

Ion	Ratio	Lower	Upper
152	100		
150	154.6	128.2	192.4
115	57.4	48.3	72.5

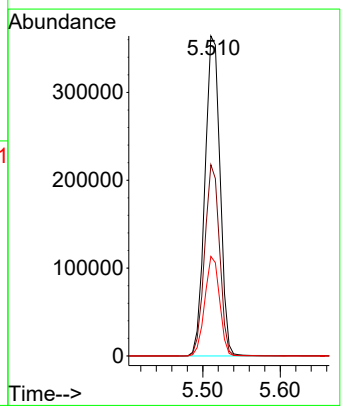


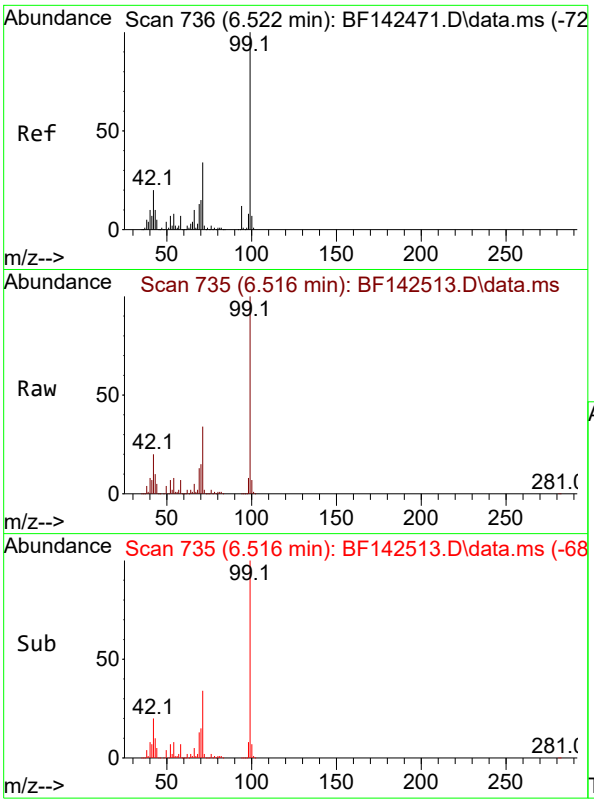


#5
2-Fluorophenol
Concen: 82.586 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:112 Resp: 494096

Ion	Ratio	Lower	Upper
112	100		
64	59.7	47.5	71.3
63	31.1	24.9	37.3



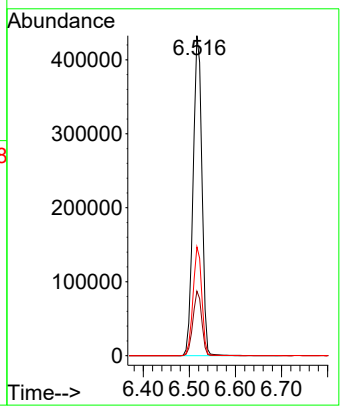


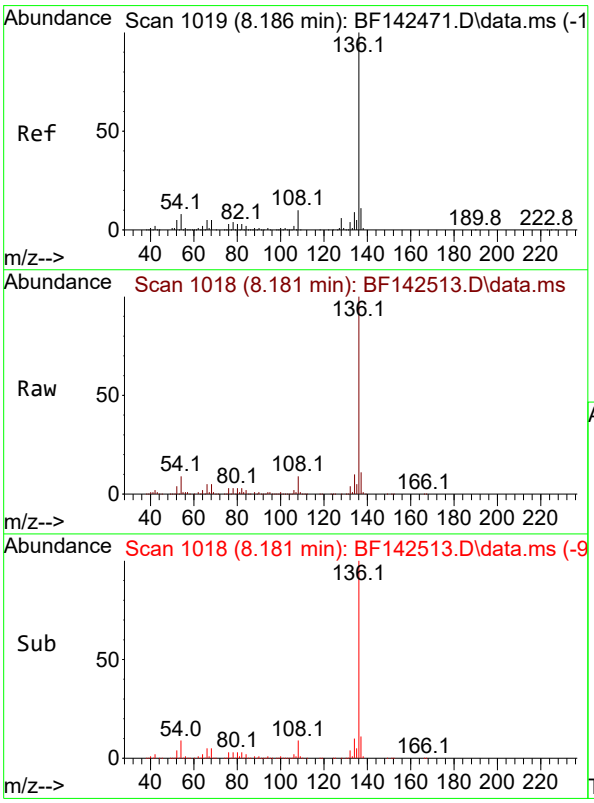
#7
Phenol-d6
Concen: 79.788 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion: 99 Resp: 574621

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	34.0	27.3	40.9

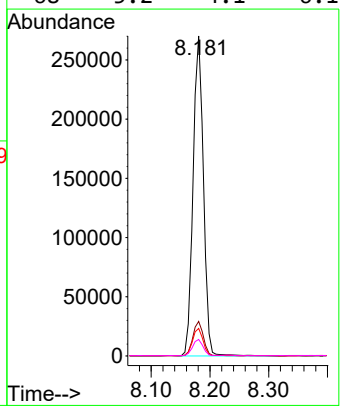


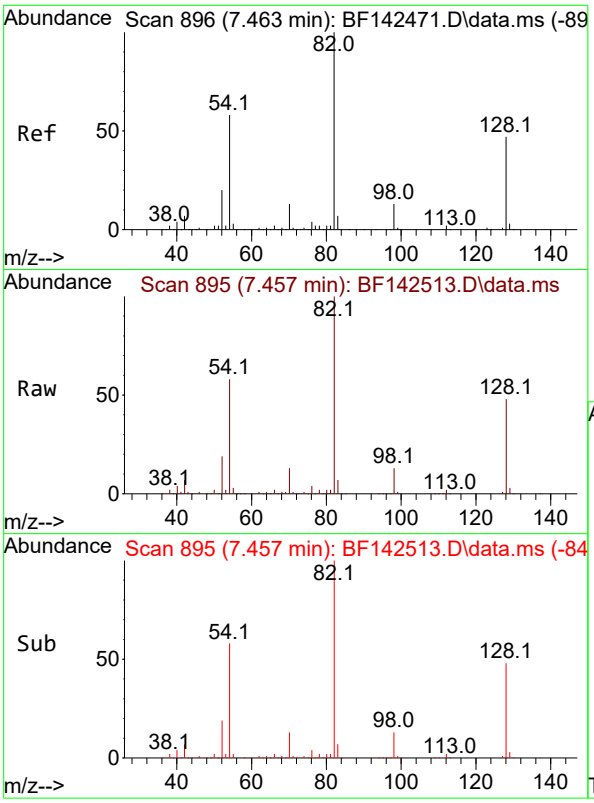


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:136 Resp: 331984

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.6	6.6	10.0
68	5.2	4.1	6.1



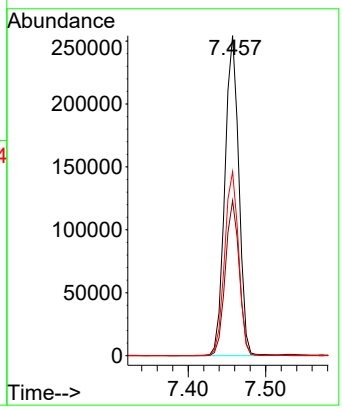


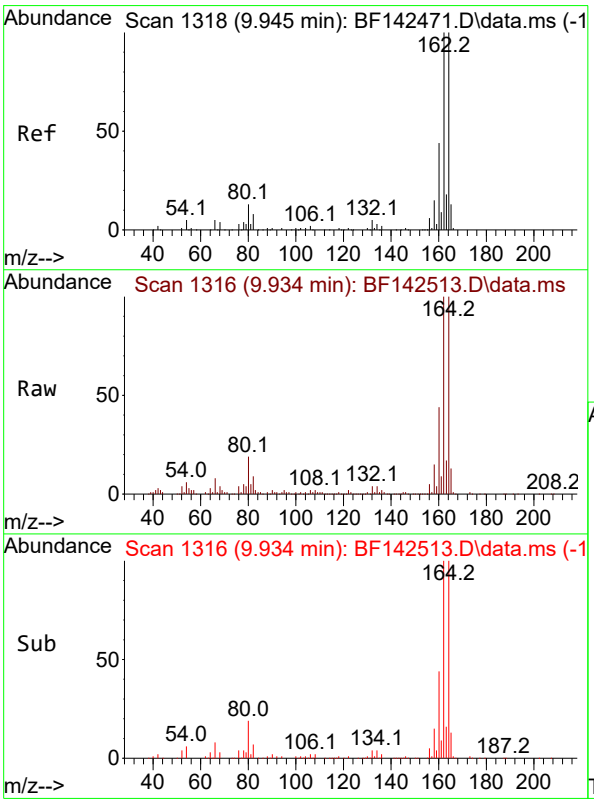
#23
Nitrobenzene-d5
Concen: 52.428 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion: 82 Resp: 319194

Ion	Ratio	Lower	Upper
82	100		
128	48.4	37.4	56.2
54	57.5	46.6	70.0

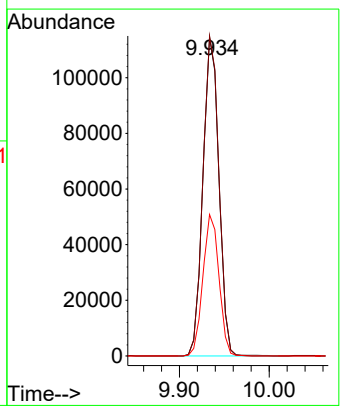


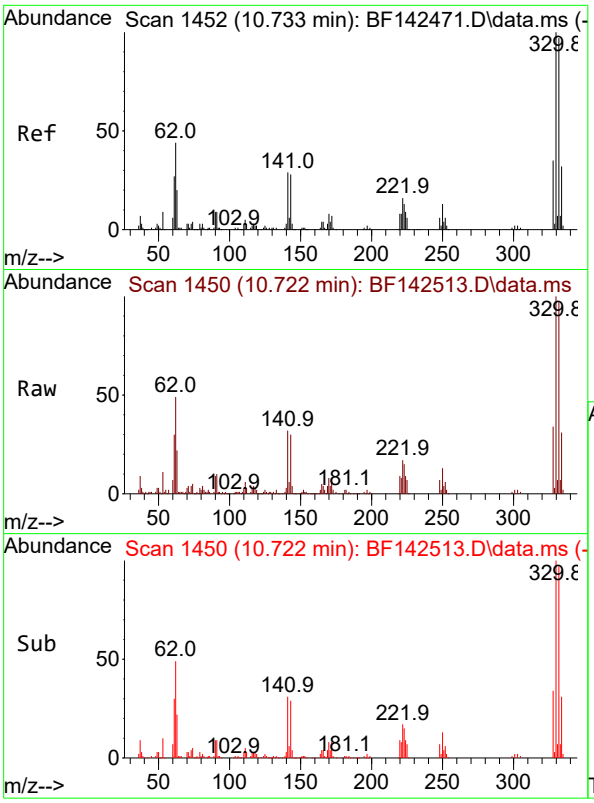


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:164 Resp: 141613

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.4
160	44.4	35.6	53.4



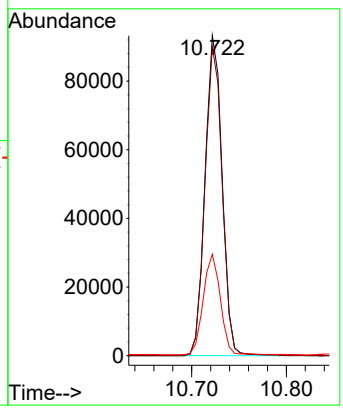


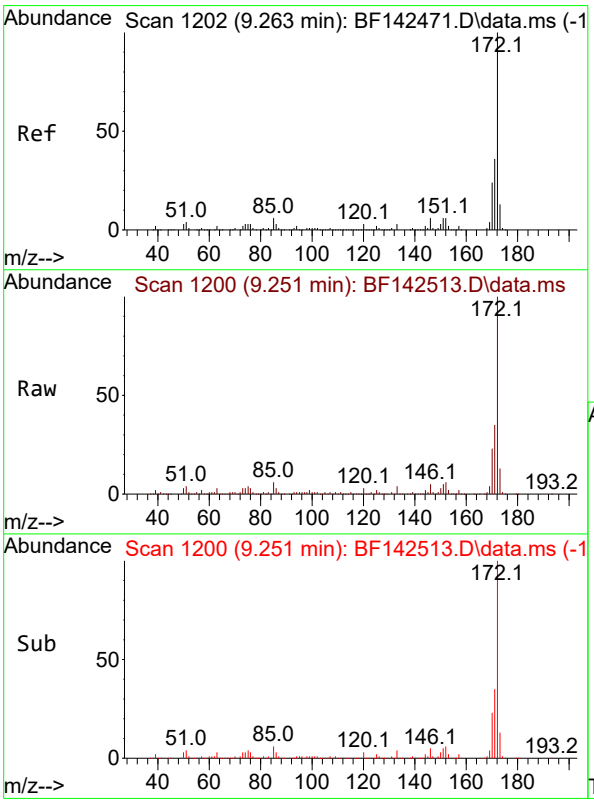
#42
2,4,6-Tribromophenol
Concen: 74.122 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:330 Resp: 116500

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	31.4	24.6	36.8

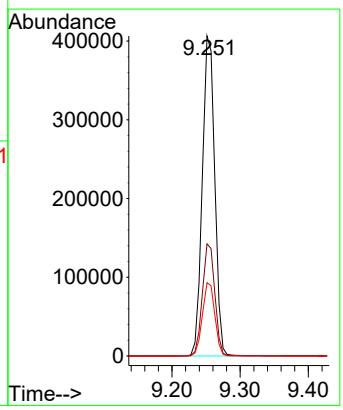


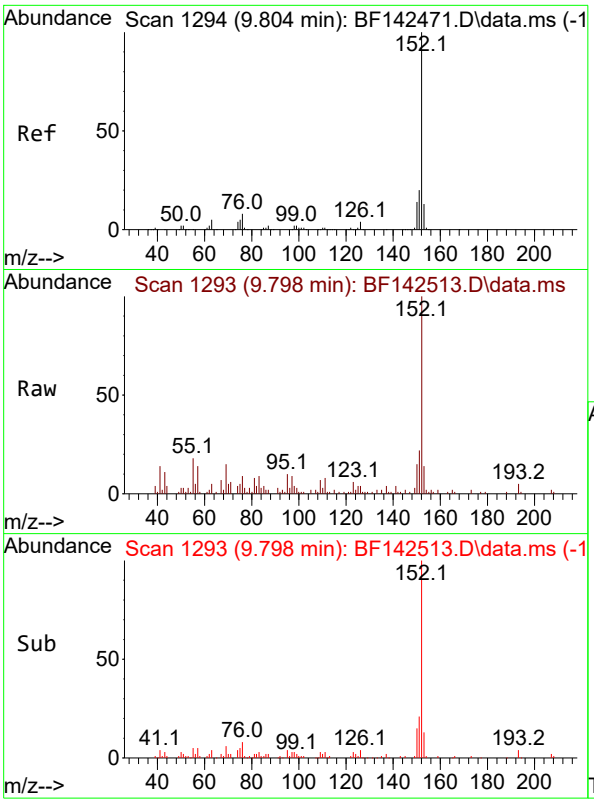


#45
2-Fluorobiphenyl
Concen: 48.940 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:172 Resp: 516485

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	22.9	18.9	28.3



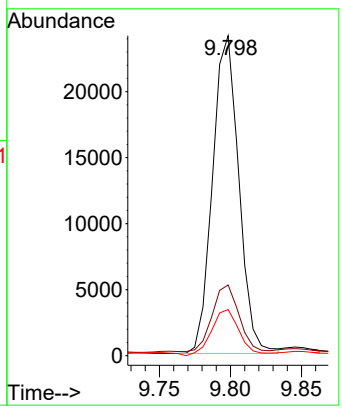


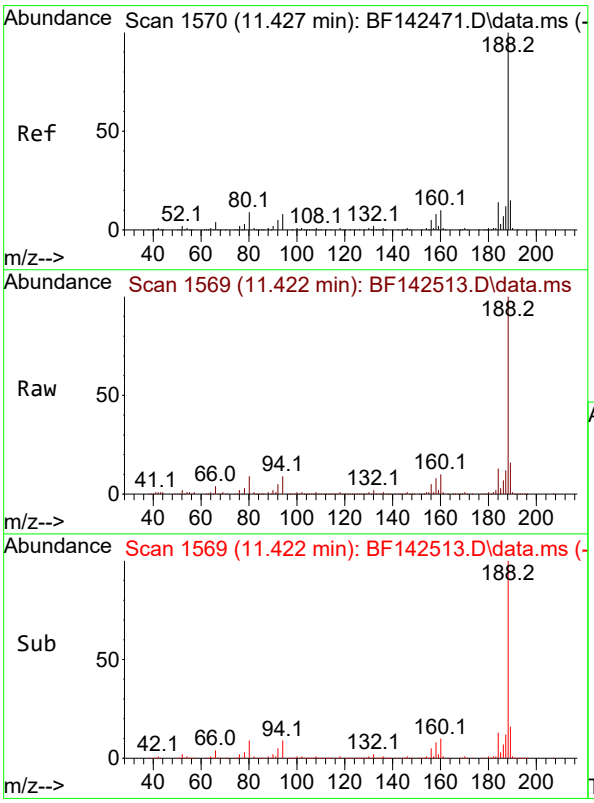
#49
Acenaphthylene
Concen: 2.263 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:152 Resp: 31014

Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.8	23.8
153	14.4	10.6	15.8

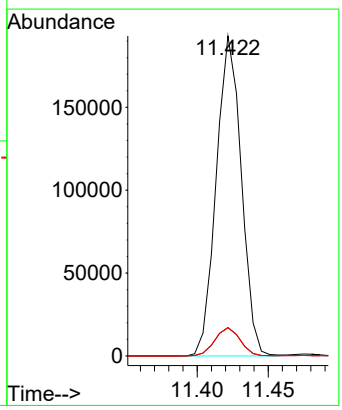


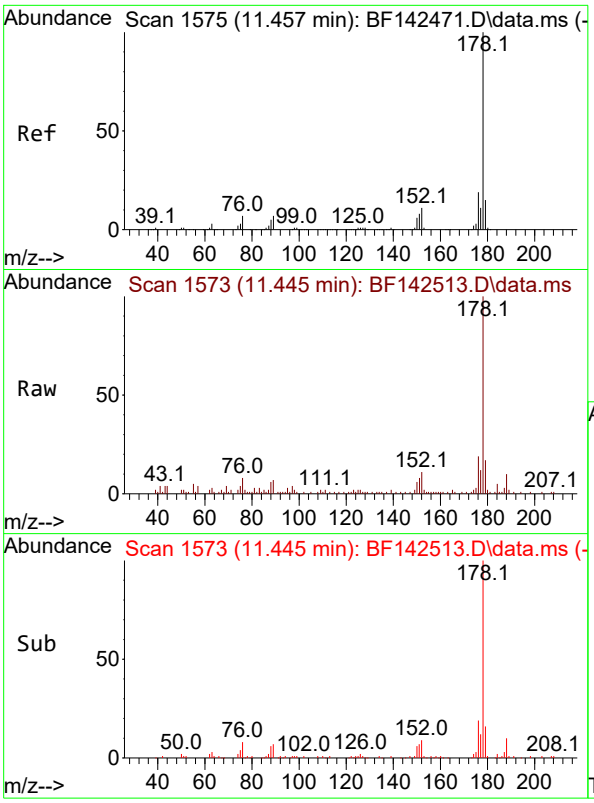


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:188 Resp: 236489

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	8.8	7.4	11.0



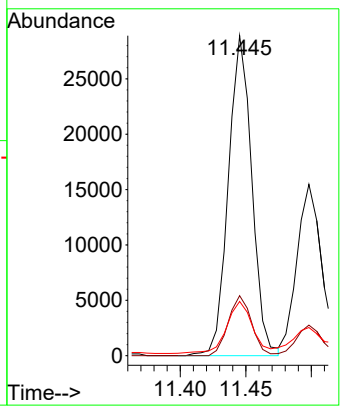


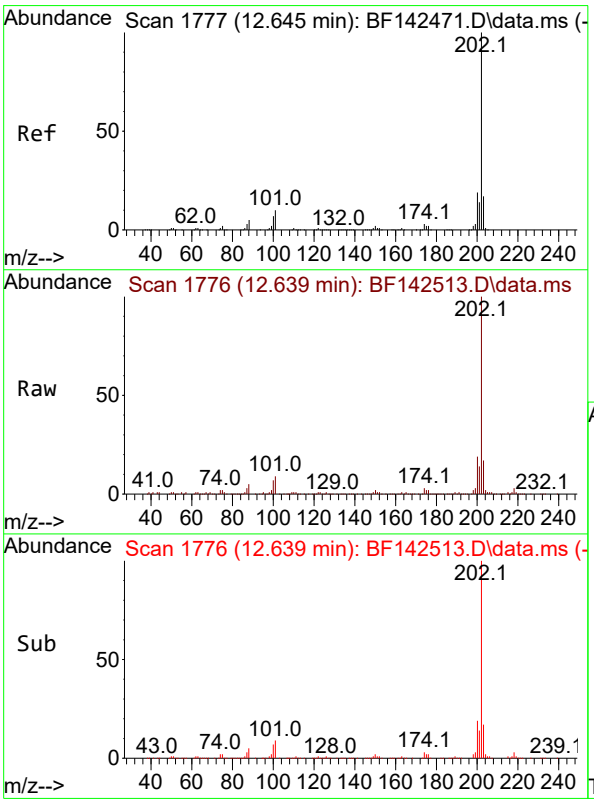
#71
Phenanthrene
Concen: 2.851 ng
RT: 11.445 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:178 Resp: 36032

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	16.9	12.3	18.5

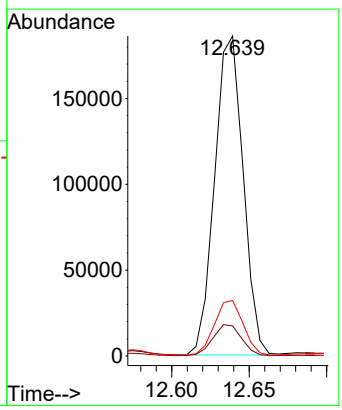


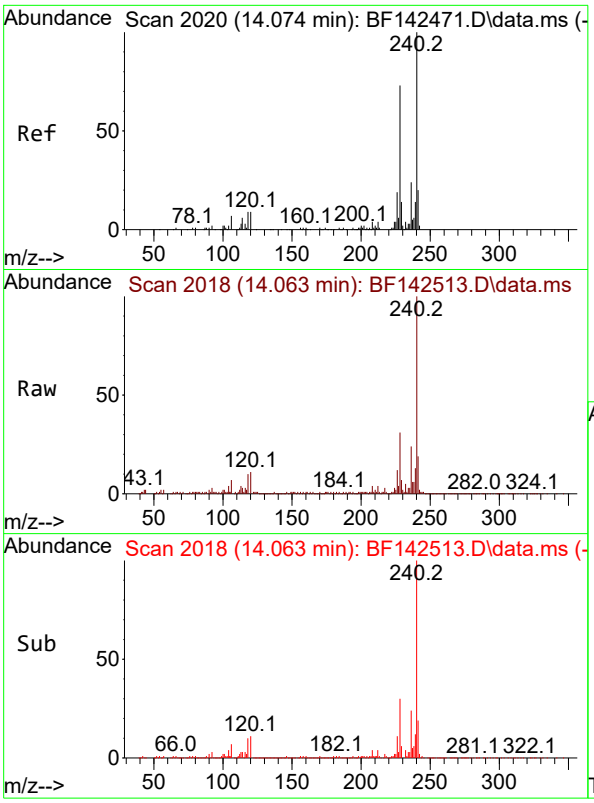


#75
Fluoranthene
Concen: 20.129 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:202 Resp: 237713

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.6
203	17.3	0.0	37.2



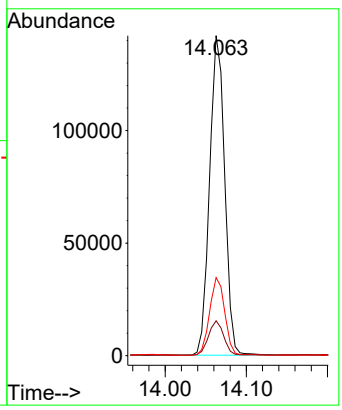


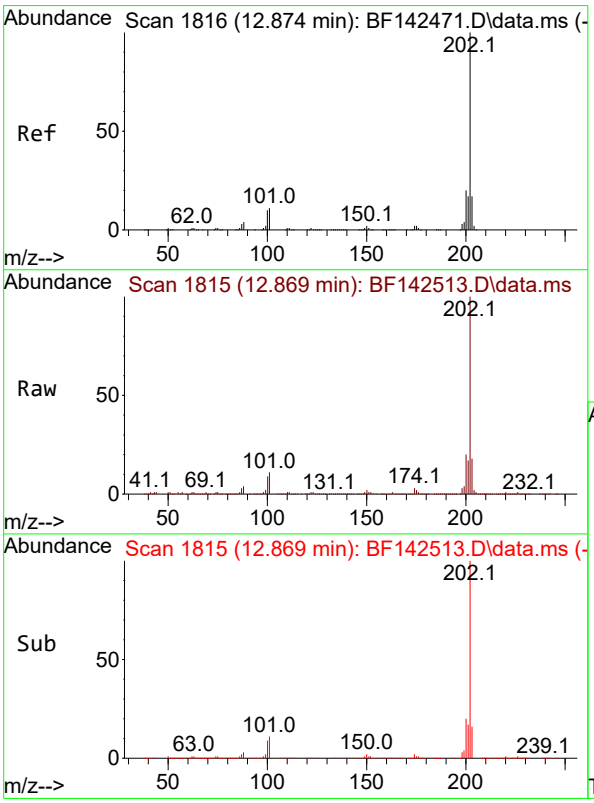
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:240 Resp: 182992

Ion	Ratio	Lower	Upper
240	100		
120	10.9	7.5	11.3
236	24.4	19.6	29.4

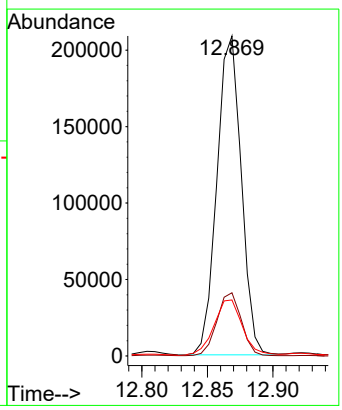


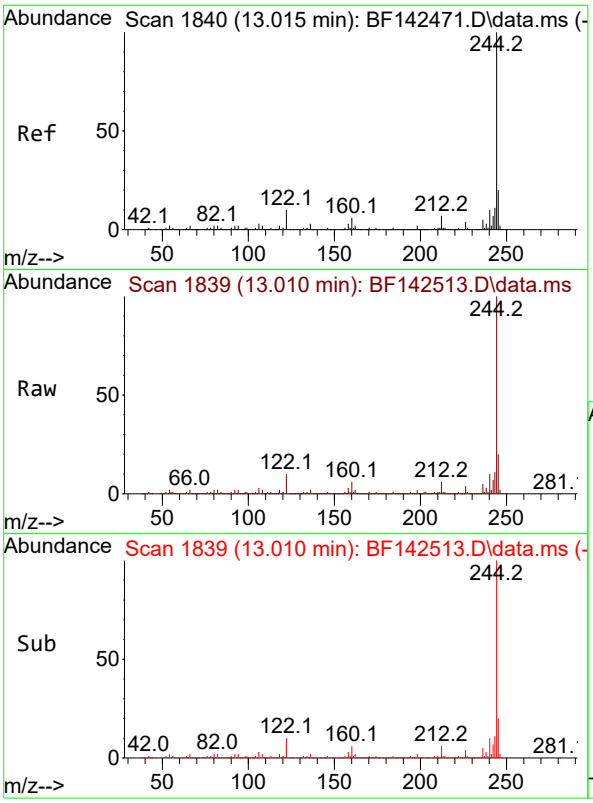


#78
Pyrene
Concen: 15.776 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:202 Resp: 269306

Ion	Ratio	Lower	Upper
202	100		
200	19.7	16.1	24.1
203	17.5	13.9	20.9



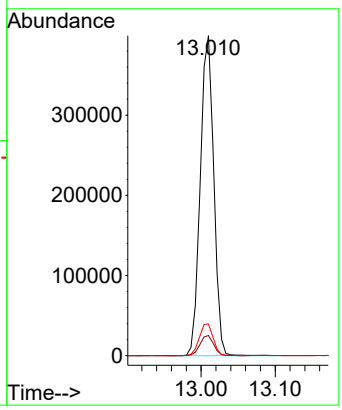


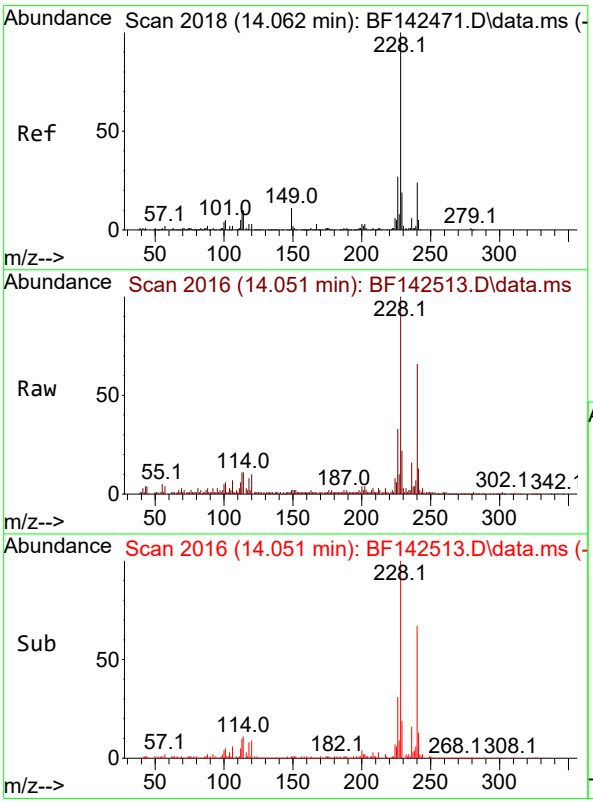
#79
Terphenyl-d14
Concen: 37.659 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:244 Resp: 504282

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	9.9	8.2	12.2

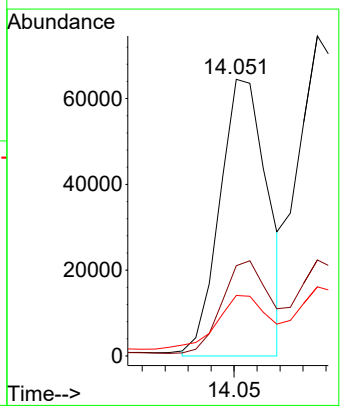


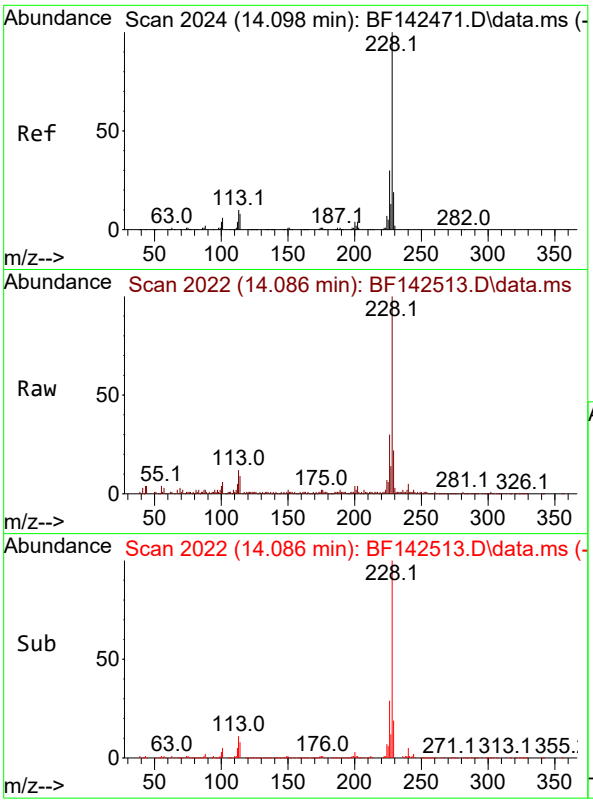


#81
Benzo(a)anthracene
Concen: 7.617 ng m
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:228 Resp: 93070

Ion	Ratio	Lower	Upper
228	100		
226	32.6	21.2	31.8#
229	21.8	15.5	23.3



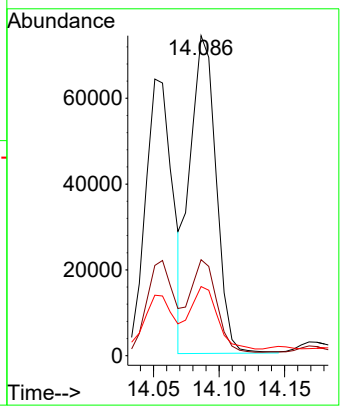


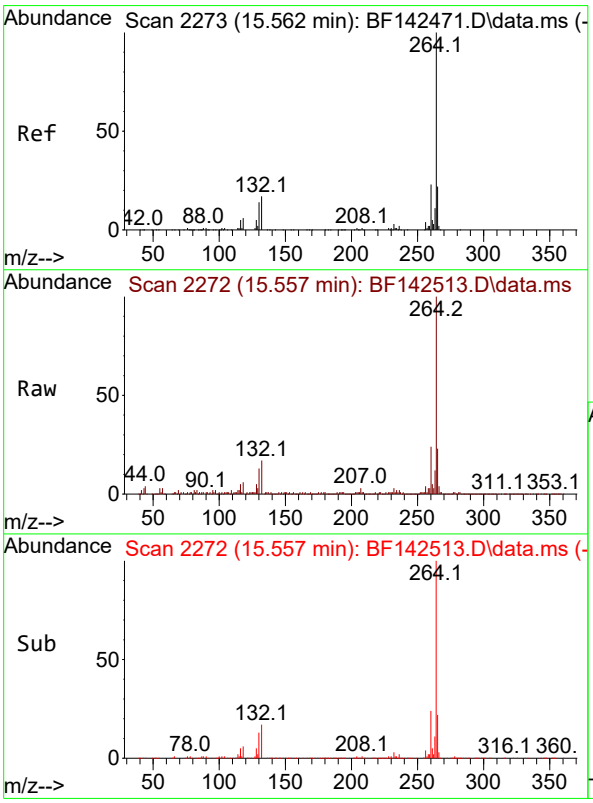
#83
Chrysene
Concen: 9.345 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:228 Resp: 102605

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	21.6	15.4	23.2

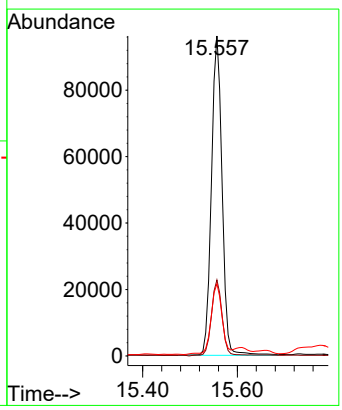


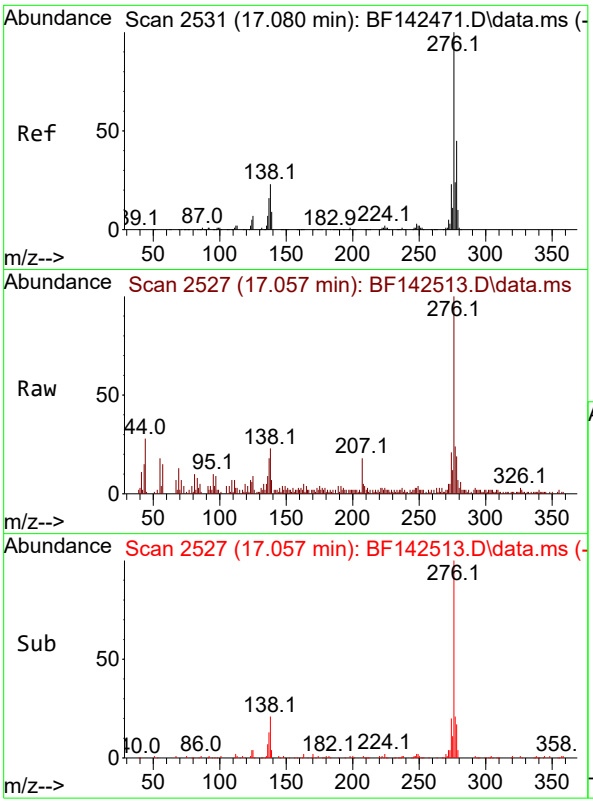


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:264 Resp: 150268

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	22.5	17.7	26.5



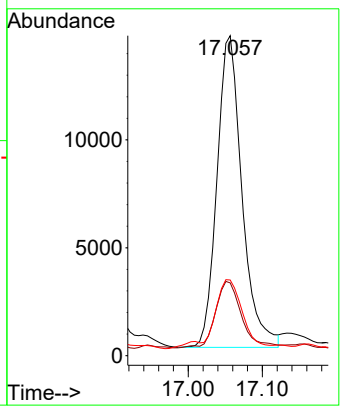


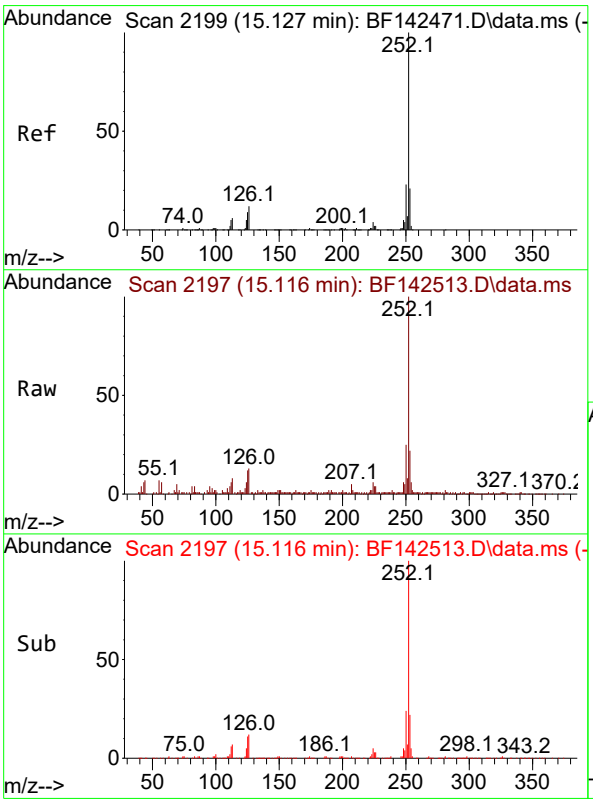
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.005 ng
RT: 17.057 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:276 Resp: 33902

Ion	Ratio	Lower	Upper
276	100		
138	22.1	19.9	29.9
277	25.0	20.2	30.2

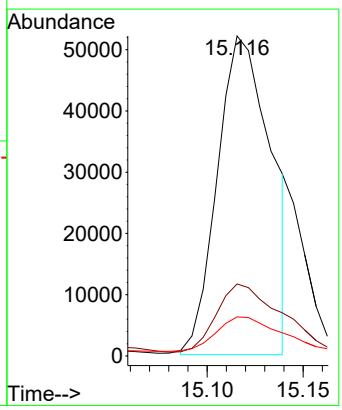


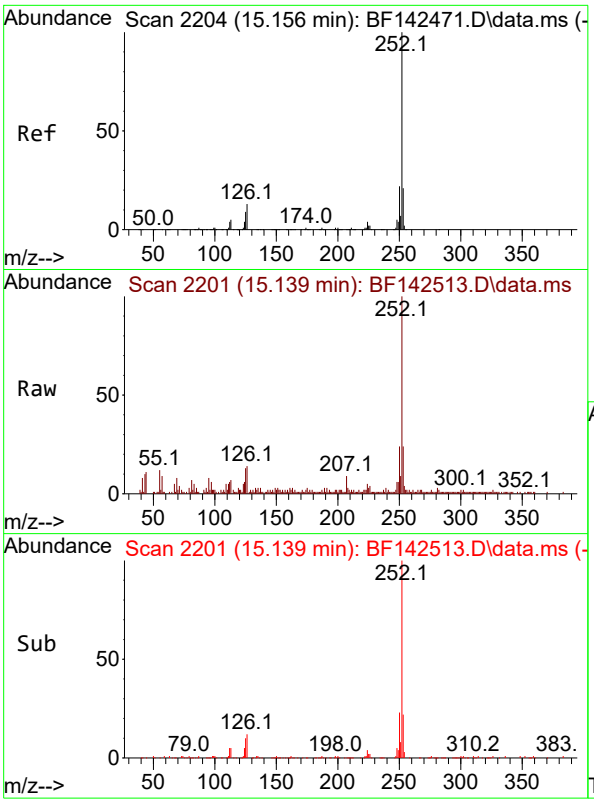


#88
Benzo(b)fluoranthene
Concen: 11.366 ng m
RT: 15.116 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:252 Resp: 101084

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.4
125	12.2	7.4	11.0#



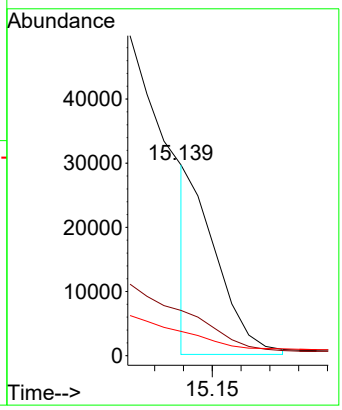


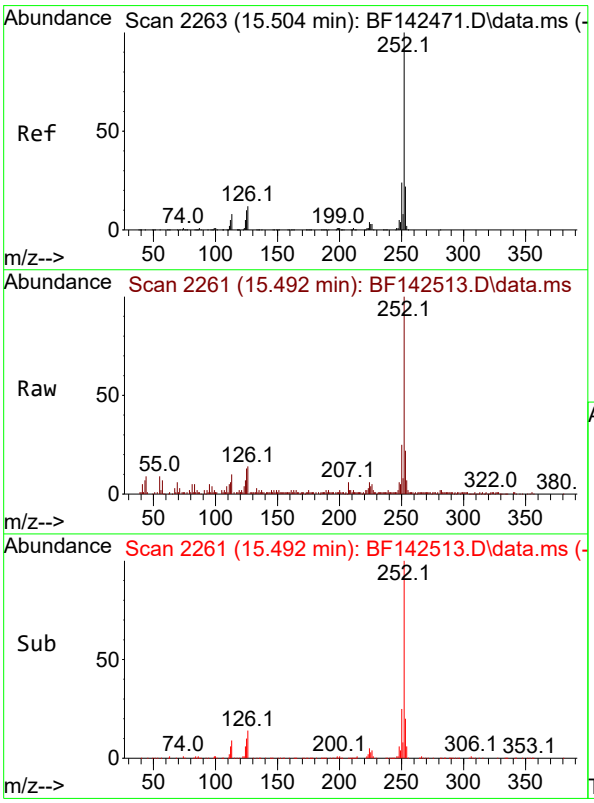
#89
Benzo(k)fluoranthene
Concen: 2.284 ng m
RT: 15.139 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:252 Resp: 19022

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.4
125	12.8	7.3	10.9#

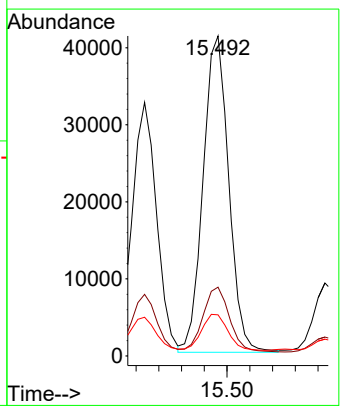


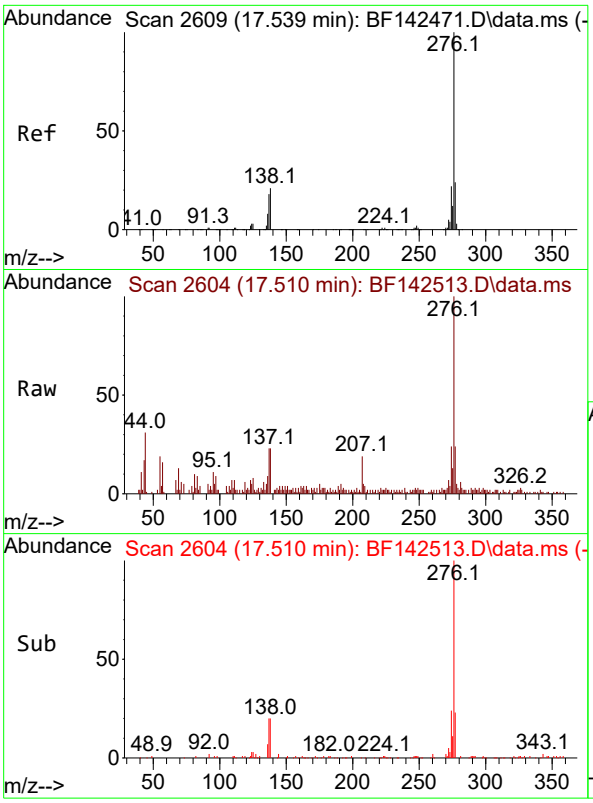


#90
Benzo(a)pyrene
Concen: 7.683 ng
RT: 15.492 min Scan# 2261
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:252 Resp: 64411

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	12.8	7.9	11.9#



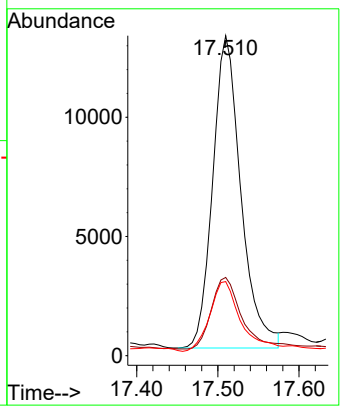


#92
Benzo(g,h,i)perylene
Concen: 3.451 ng
RT: 17.510 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:276 Resp: 31581

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	23.1	16.8	25.2



Sample Results: **BF142513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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: BF142513.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	122047	186220	10.91%	1.076%
2	5.510	558	564	570	rBV	1278301	1706343	100.00%	9.855%
3	6.516	729	735	747	rBV	1246315	1667011	97.69%	9.628%
4	6.898	795	800	805	rVB	482327	590540	34.61%	3.411%
5	7.457	884	895	900	rBV	780974	1016487	59.57%	5.871%
6	7.540	904	909	913	rVB3	19066	30183	1.77%	0.174%
7	7.598	913	919	922	rBV2	13276	23363	1.37%	0.135%
8	7.675	929	932	935	rBV2	15718	19570	1.15%	0.113%
9	7.710	935	938	944	rVB3	32759	45973	2.69%	0.266%
10	7.775	945	949	953	rBV2	11517	20156	1.18%	0.116%
11	7.822	953	957	960	rVB3	22258	24991	1.46%	0.144%
12	8.057	993	997	999	rBV2	12212	17379	1.02%	0.100%
13	8.128	1005	1009	1012	rBV4	12259	20059	1.18%	0.116%
14	8.181	1012	1018	1024	rVV	544072	716383	41.98%	4.138%
15	8.234	1024	1027	1031	rVV	56786	79646	4.67%	0.460%
16	8.269	1031	1033	1040	rVB5	20864	34790	2.04%	0.201%
17	8.387	1050	1053	1060	rVB5	22763	38851	2.28%	0.224%
18	8.469	1061	1067	1073	rBV7	25004	57572	3.37%	0.333%
19	8.522	1073	1076	1079	rBV3	16402	18411	1.08%	0.106%
20	8.598	1085	1089	1092	rBV	40133	55475	3.25%	0.320%
21	8.722	1106	1110	1114	rBV6	14756	23915	1.40%	0.138%
22	8.863	1131	1134	1138	rVB3	28170	35468	2.08%	0.205%
23	9.057	1163	1167	1170	rBV4	18265	32391	1.90%	0.187%
24	9.175	1184	1187	1188	rBV	17941	19422	1.14%	0.112%
25	9.198	1188	1191	1195	rVB2	28619	34971	2.05%	0.202%
26	9.251	1195	1200	1206	rVB	1147831	1437198	84.23%	8.301%
27	9.339	1210	1215	1219	rBV2	36976	62795	3.68%	0.363%
28	9.592	1255	1258	1263	rVB3	19453	27492	1.61%	0.159%
29	9.645	1263	1267	1274	rVB5	62840	95284	5.58%	0.550%
30	9.798	1289	1293	1297	rBV	72271	97953	5.74%	0.566%
31	9.845	1297	1301	1305	rVB2	34032	46516	2.73%	0.269%
32	9.934	1311	1316	1320	rVV	472277	585927	34.34%	3.384%
33	10.186	1356	1359	1366	rVB4	24185	42861	2.51%	0.248%
34	10.251	1367	1370	1373	rBV3	17080	23885	1.40%	0.138%
35	10.345	1382	1386	1391	rBV5	18019	29035	1.70%	0.168%
36	10.481	1406	1409	1416	rVB	28326	42798	2.51%	0.247%

Sample Results: **BF142513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

37	10.645	1432	1437	1444	rVB	95708	126581	7.42%	0.731%
38	10.722	1445	1450	1462	rVB	692348	880159	51.58%	5.083%
39	10.845	1467	1471	1478	rVB	30591	48245	2.83%	0.279%
40	11.028	1498	1502	1505	rBV2	17919	30748	1.80%	0.178%
41	11.057	1505	1507	1513	rVV2	20654	28230	1.65%	0.163%
42	11.316	1547	1551	1557	rVB	26153	43971	2.58%	0.254%
43	11.422	1564	1569	1578	rBV2	468299	671496	39.35%	3.878%
44	11.498	1578	1582	1585	rVV	30449	39056	2.29%	0.226%
45	11.751	1622	1625	1632	rVB	27724	40220	2.36%	0.232%
46	11.833	1636	1639	1644	rVB	16082	21869	1.28%	0.126%
47	11.945	1650	1658	1663	rBV2	102327	245019	14.36%	1.415%
48	11.998	1664	1667	1669	rVV2	22367	29321	1.72%	0.169%
49	12.039	1669	1674	1682	rVB2	140723	285039	16.70%	1.646%
50	12.157	1691	1694	1697	rVB2	16704	18984	1.11%	0.110%
51	12.222	1701	1705	1708	rBV	36596	51840	3.04%	0.299%
52	12.369	1725	1730	1732	rBV2	22063	32524	1.91%	0.188%
53	12.398	1732	1735	1738	rBV	25826	31854	1.87%	0.184%
54	12.475	1744	1748	1751	rBV	83727	113076	6.63%	0.653%
55	12.510	1751	1754	1760	rVV2	56816	93277	5.47%	0.539%
56	12.563	1760	1763	1771	rVB3	36087	71664	4.20%	0.414%
57	12.639	1771	1776	1780	rBV	412256	531518	31.15%	3.070%
58	12.680	1780	1783	1788	rBV5	23206	39948	2.34%	0.231%
59	12.733	1789	1792	1795	rVB	28401	30023	1.76%	0.173%
60	12.792	1799	1802	1805	rBV2	18889	24558	1.44%	0.142%
61	12.869	1809	1815	1821	rVV	440594	616438	36.13%	3.560%
62	13.010	1833	1839	1846	rVB	1039370	1372874	80.46%	7.929%
63	13.086	1847	1852	1858	rBV2	61296	115416	6.76%	0.667%
64	13.192	1863	1870	1874	rVB	101994	192793	11.30%	1.114%
65	13.263	1878	1882	1885	rVV	68657	95804	5.61%	0.553%
66	13.298	1885	1888	1896	rVB2	83411	113673	6.66%	0.657%
67	13.392	1900	1904	1906	rVV	61493	81520	4.78%	0.471%
68	13.422	1906	1909	1913	rVB	52932	63408	3.72%	0.366%
69	13.904	1987	1991	2001	rVB5	64749	116094	6.80%	0.671%
70	14.063	2012	2018	2029	rBV2	487565	996343	58.39%	5.755%
71	15.116	2192	2197	2206	rBV	131612	311510	18.26%	1.799%
72	15.427	2246	2250	2256	rVB	81214	120763	7.08%	0.697%
73	15.492	2257	2261	2266	rVB	103937	159447	9.34%	0.921%
74	15.557	2267	2272	2284	rBV	244851	421422	24.70%	2.434%

Sum of corrected areas: 17314039

Instrument :
BNA_F
ClientSampleId :
TP-12

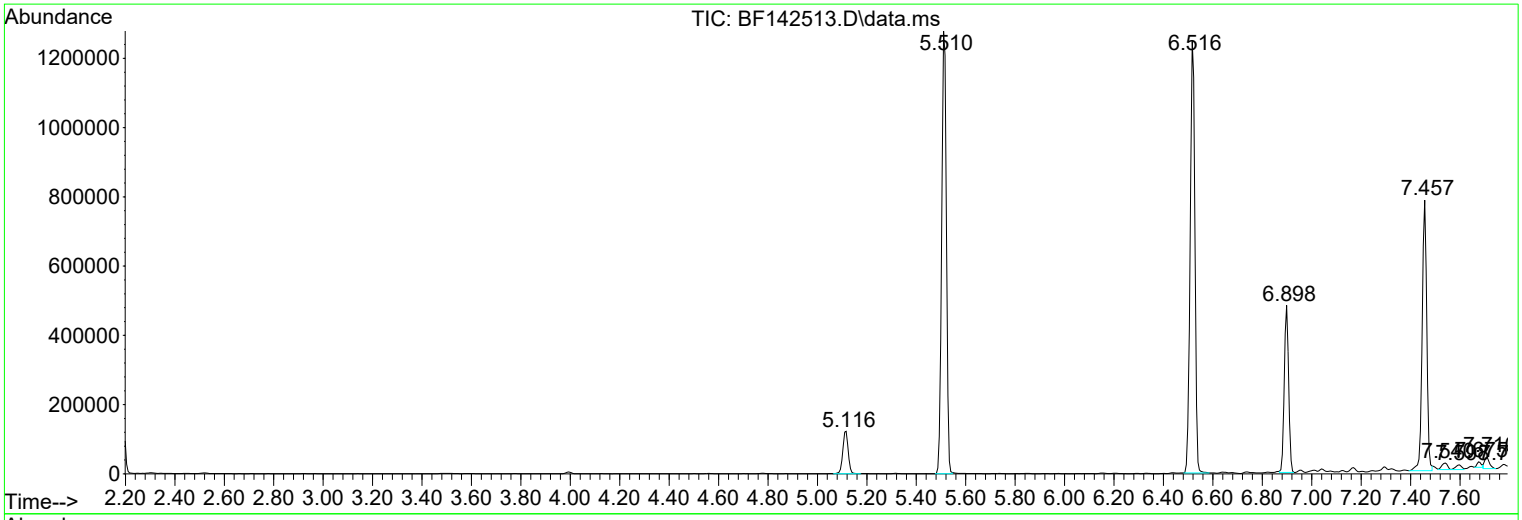
Sample Results: **BF142513.D**

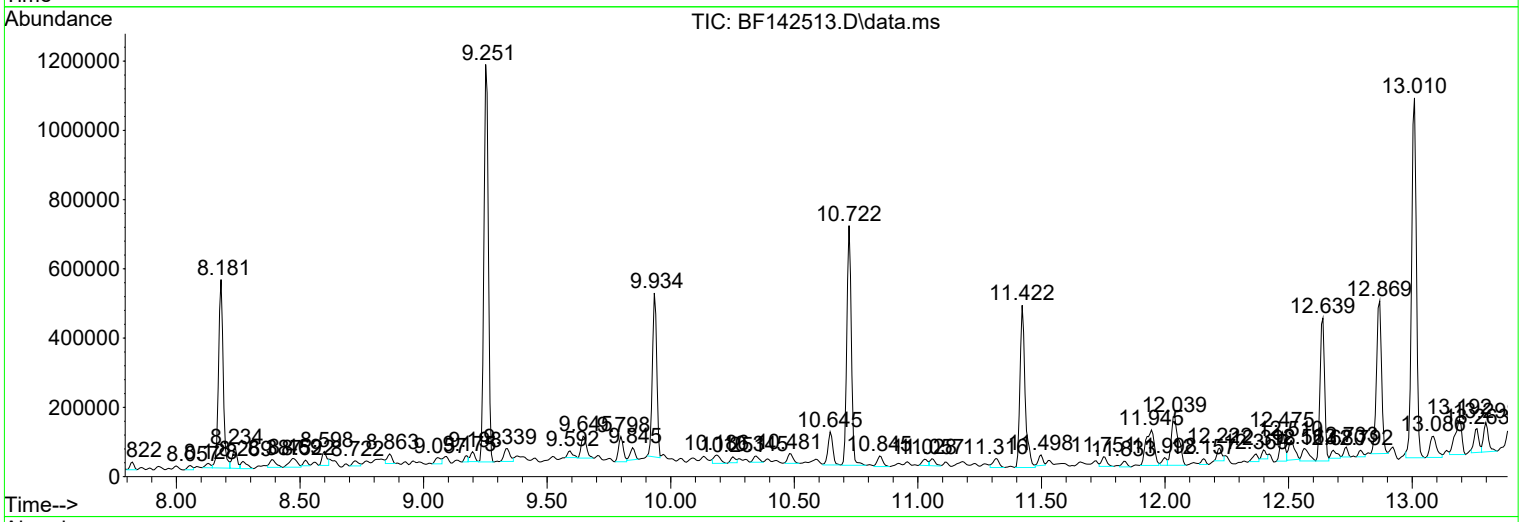
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

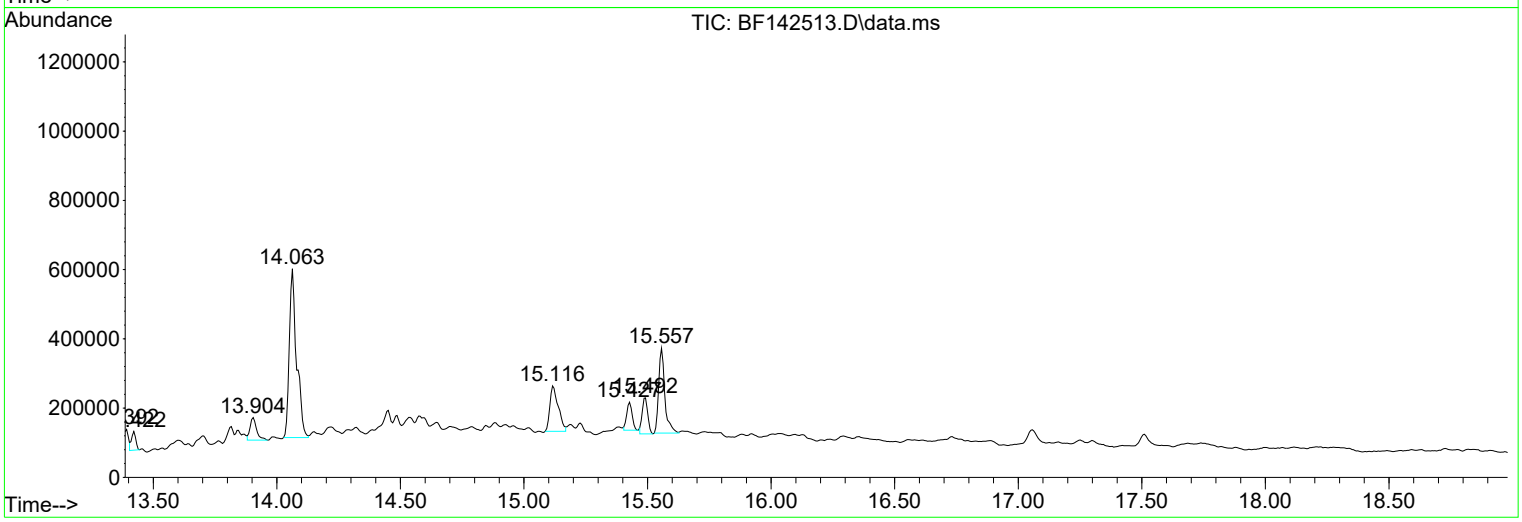
Instrument :
BNA_F
ClientSampleId :
TP-12

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\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

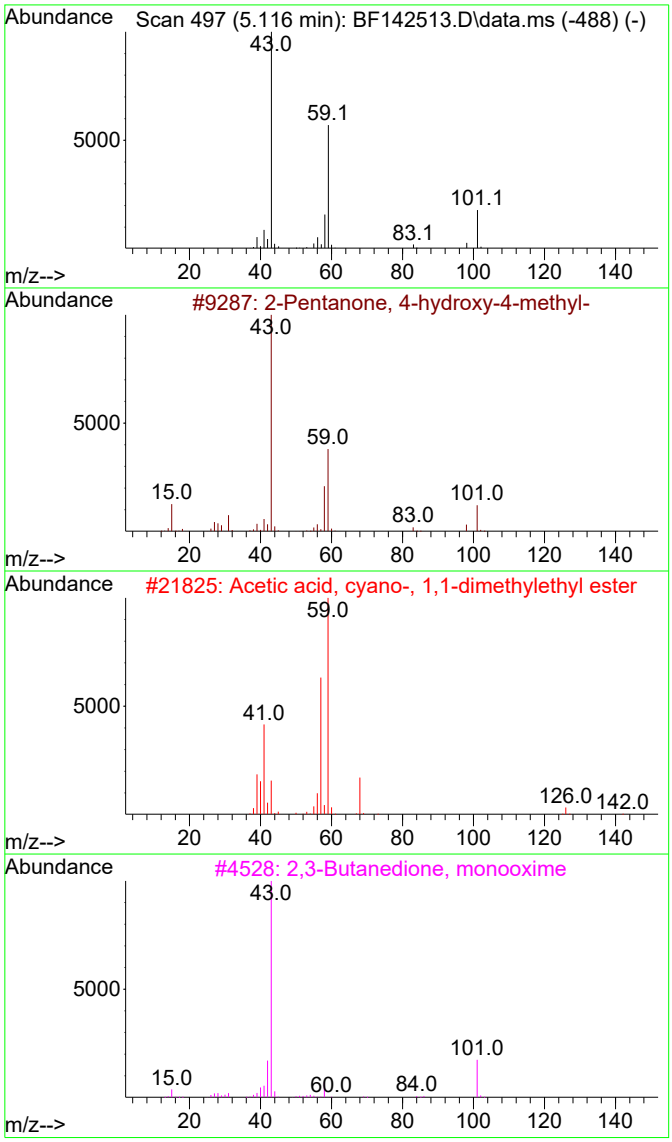
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

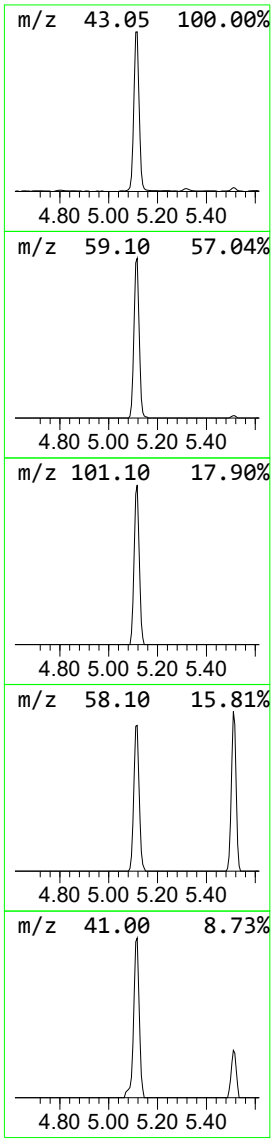
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.31 ng	186220	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

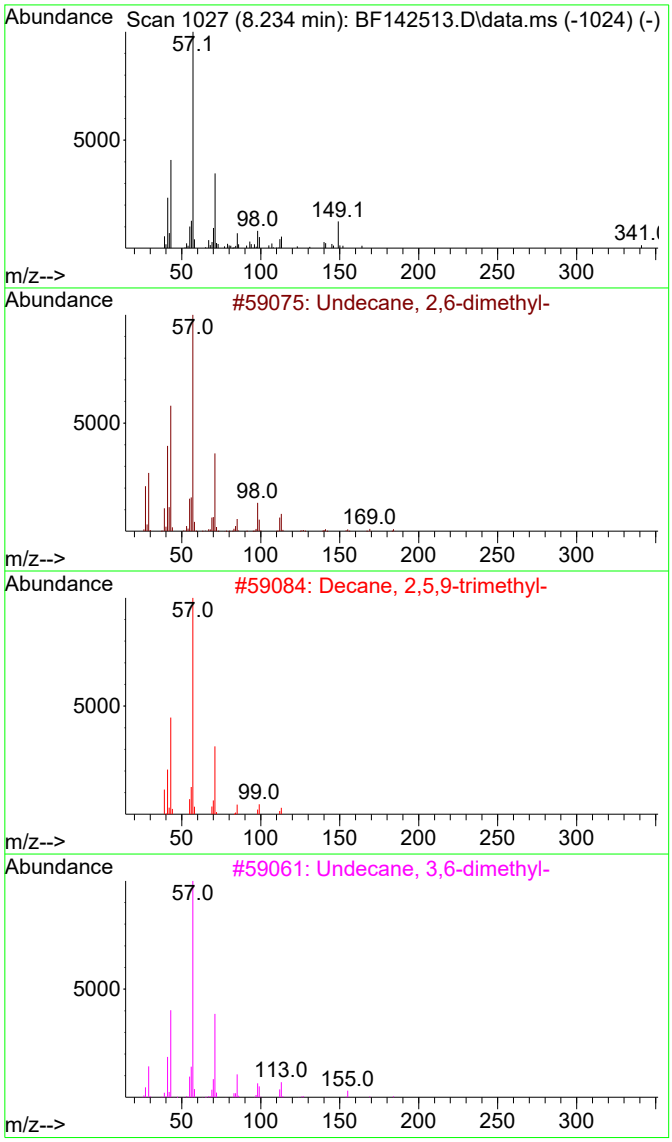
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

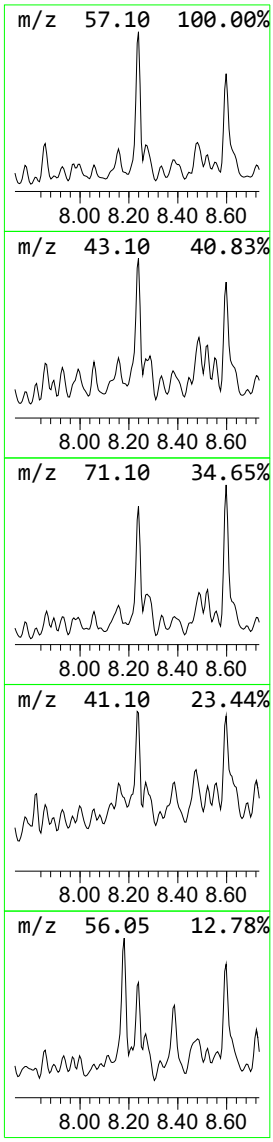
****

Peak Number 2 Undecane, 2,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.234	2.22 ng	79646	Naphthalene-d8	8.181

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	72
2	Decane, 2,5,9-trimethyl-	184	C13H28	062108-22-9	64
3	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	64
4	Sulfurous acid, butyl 2-ethylhex...	250	C12H26O3S	1000309-18-8	50
5	Eicosyl octyl ether	410	C28H58O	1000406-38-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

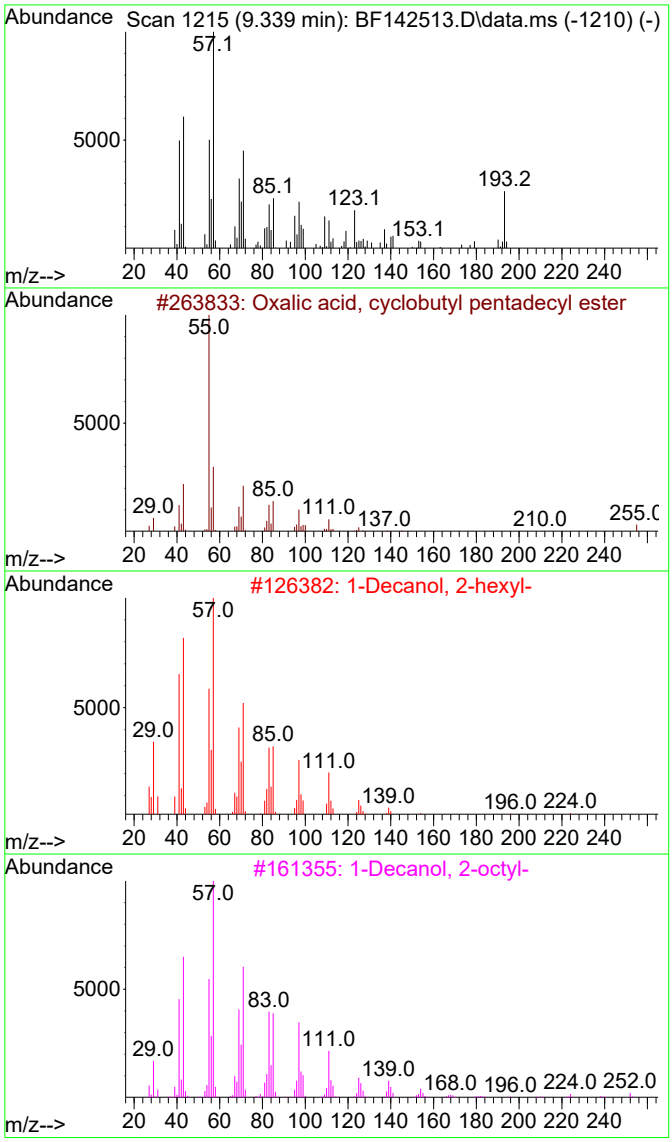
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

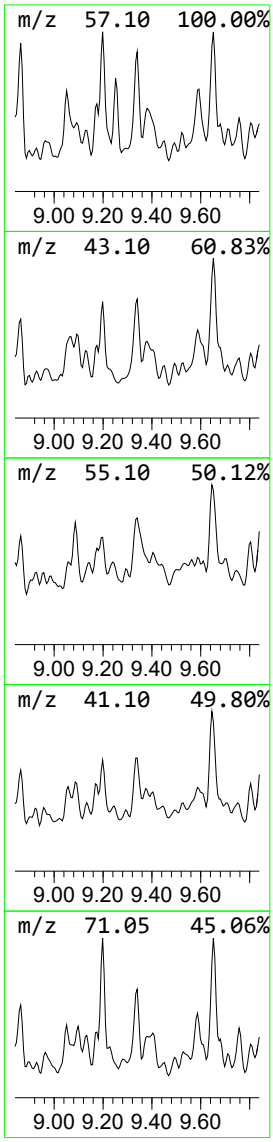
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Oxalic acid, cyclobutyl pen... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.339	2.14 ng	62795	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclobutyl pentadec...	354	C21H38O4	1010309-70-5	58
2	1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	52
3	1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	50
4	Octadecane, 1-bromo-	332	C18H37Br	000112-89-0	46
5	Pentadecane, 1-bromo-	290	C15H31Br	000629-72-1	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

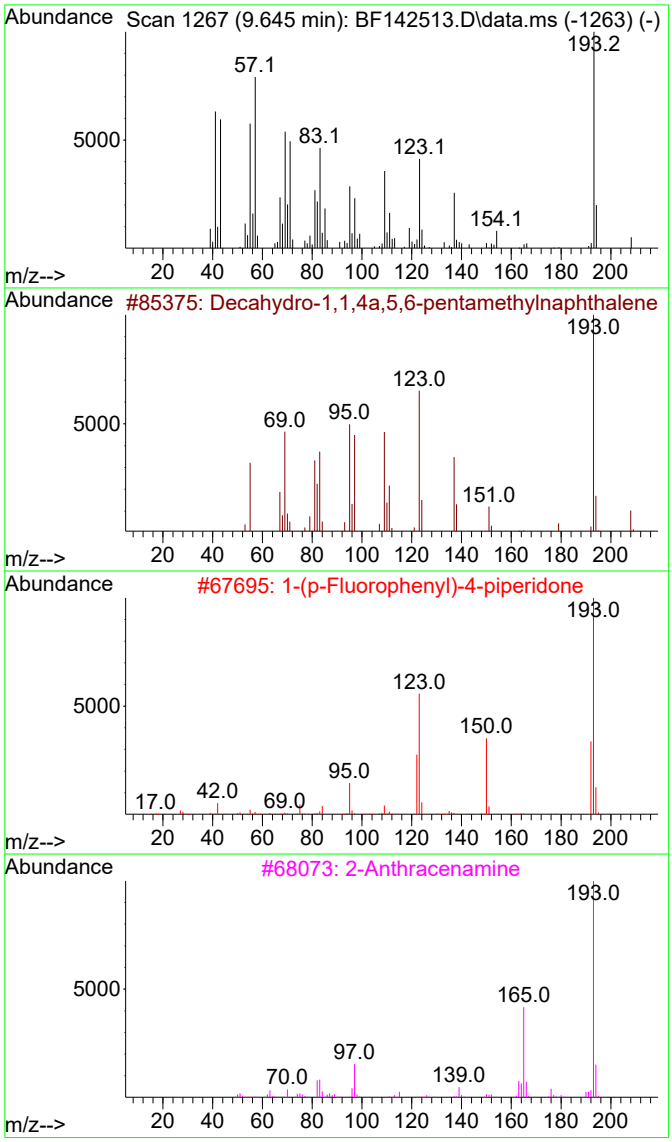
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

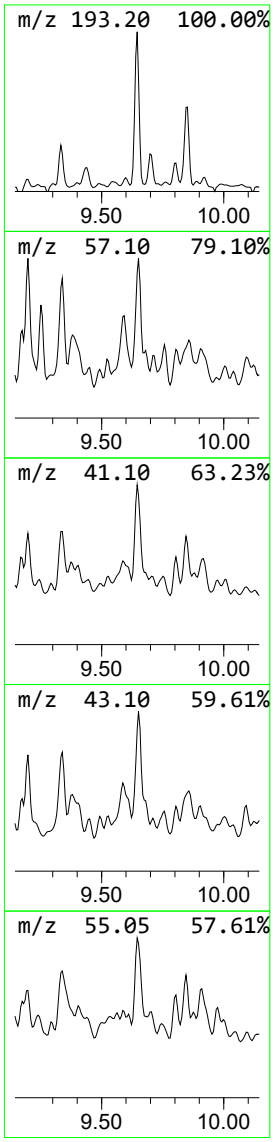
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Decahydro-1,1,4a,5,6-pentam... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.645	3.25 ng	95284	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decahydro-1,1,4a,5,6-pentamethyl...	208	C15H28	080655-44-3	60
2	1-(p-Fluorophenyl)-4-piperidone	193	C11H12FNO	1000238-56-7	38
3	2-Anthracenamine	193	C14H11N	000613-13-8	25
4	Trisiloxane, 1,1,3,3,5,5-hexamet...	208	C6H20O2Si3	001189-93-1	22
5	Iminostilbene	193	C14H11N	000256-96-2	22





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

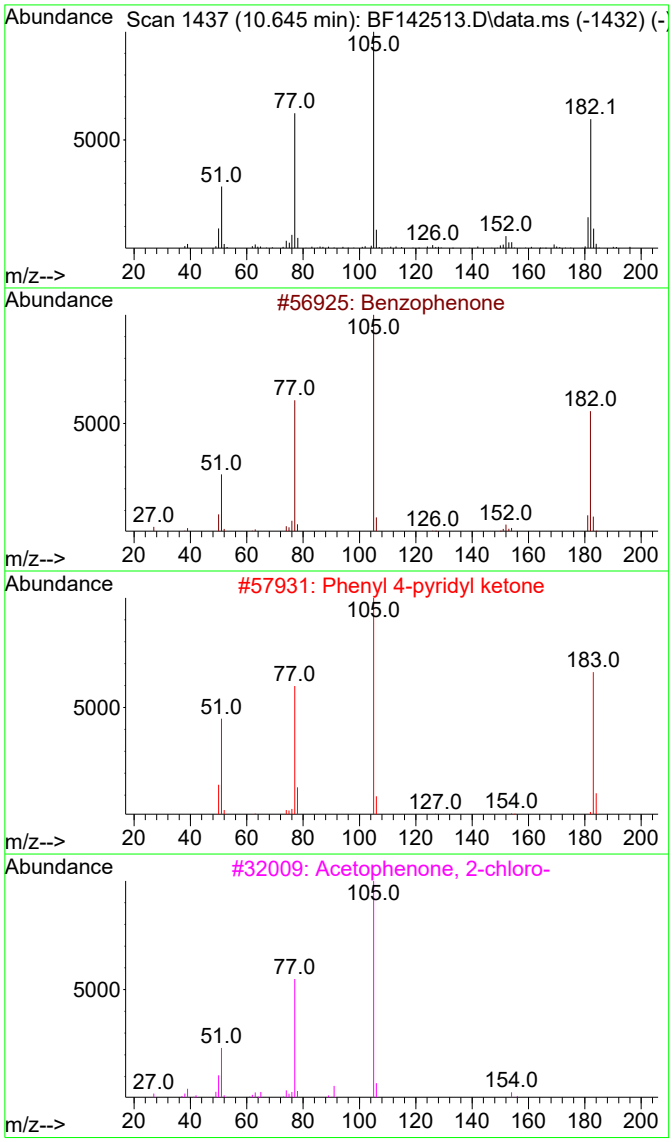
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

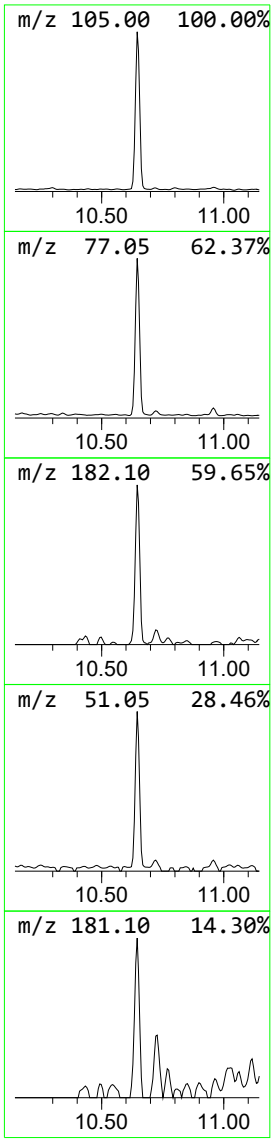
****

Peak Number 5 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.32 ng	126581	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	46
4	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	43
5	Vinyl benzoate	148	C9H8O2	000769-78-8	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

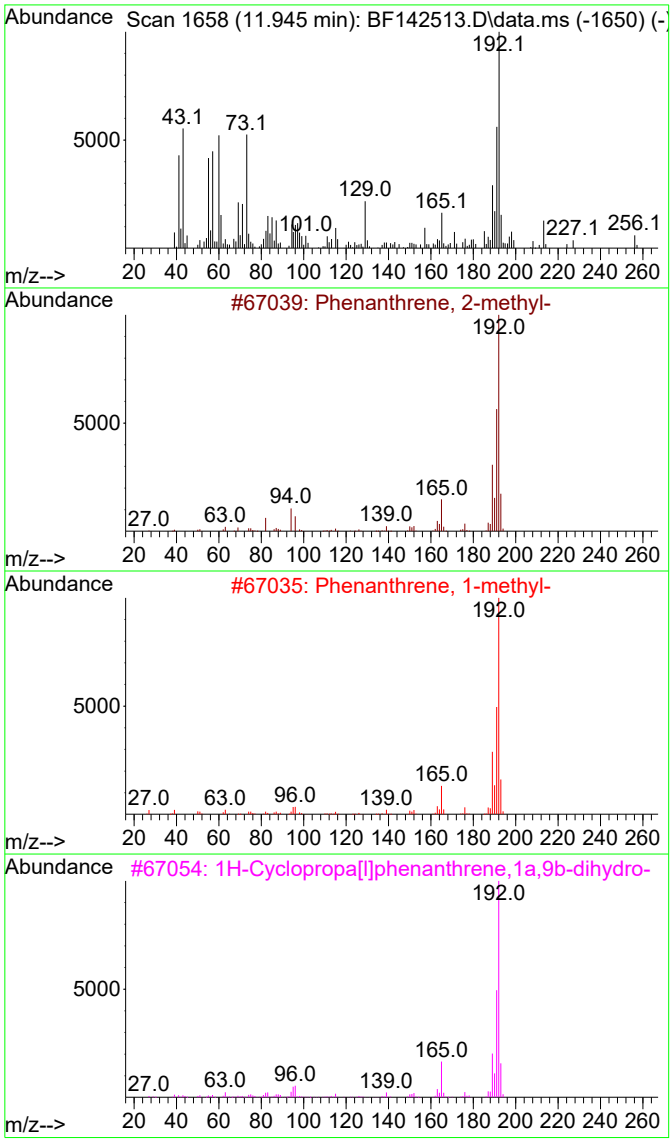
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

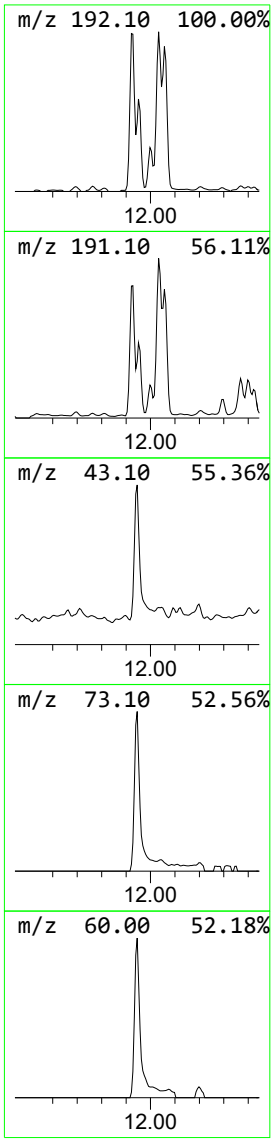
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	7.30 ng	245019	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	92





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

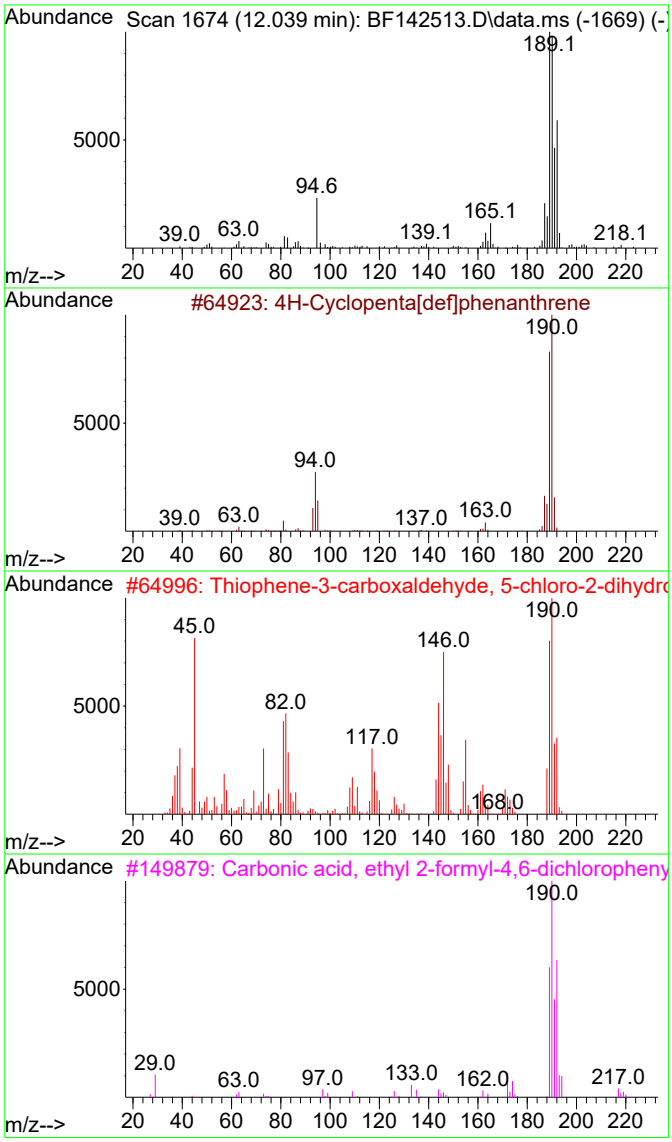
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

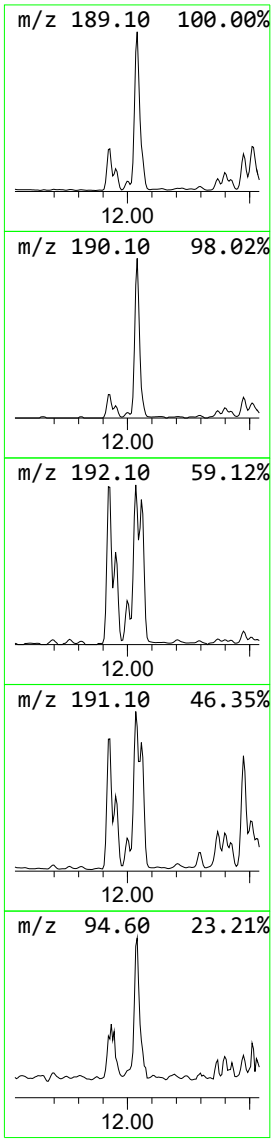
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.039	8.49 ng	285039	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50
5	4,6-Dichloro-2-ethylpyrimidin-5-...	191	C6H7Cl2N3	006237-96-3	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

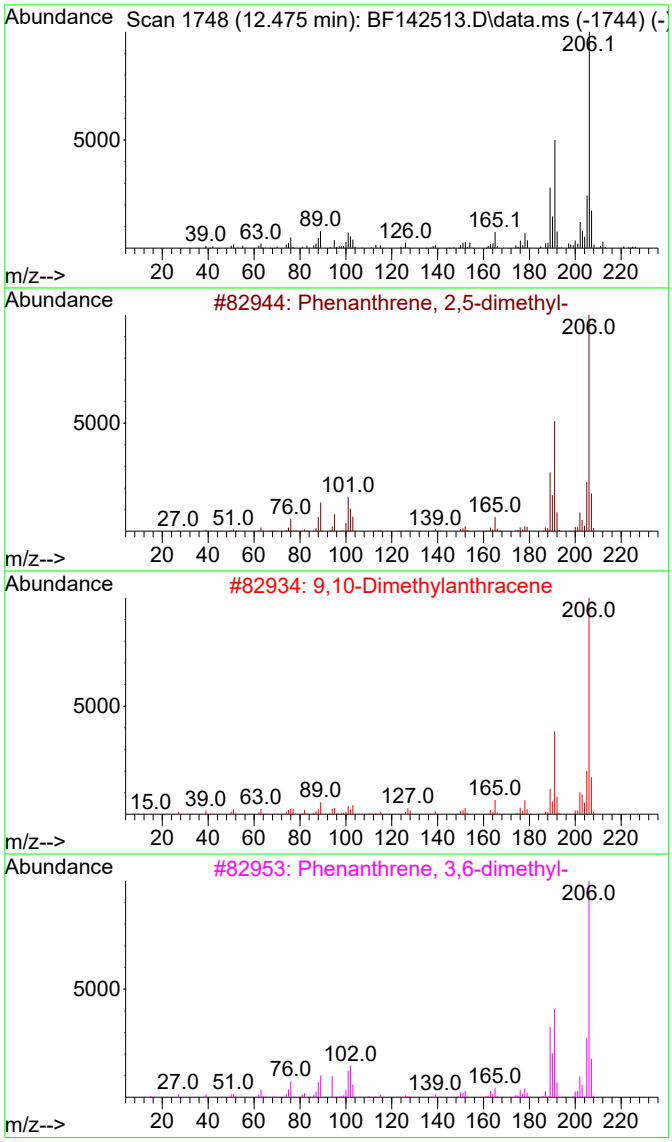
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

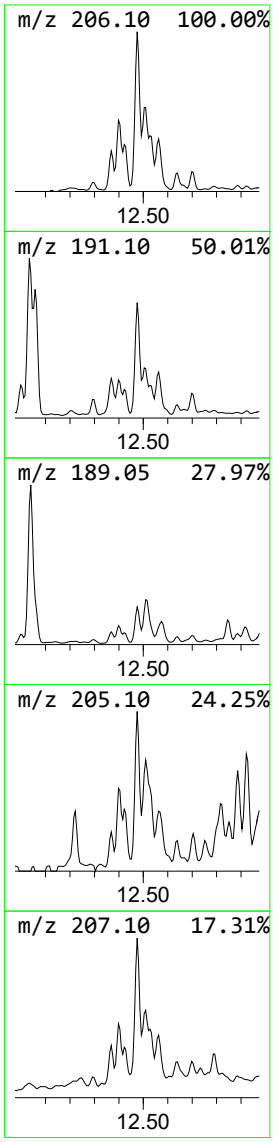
****

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.475	3.37 ng	113076	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

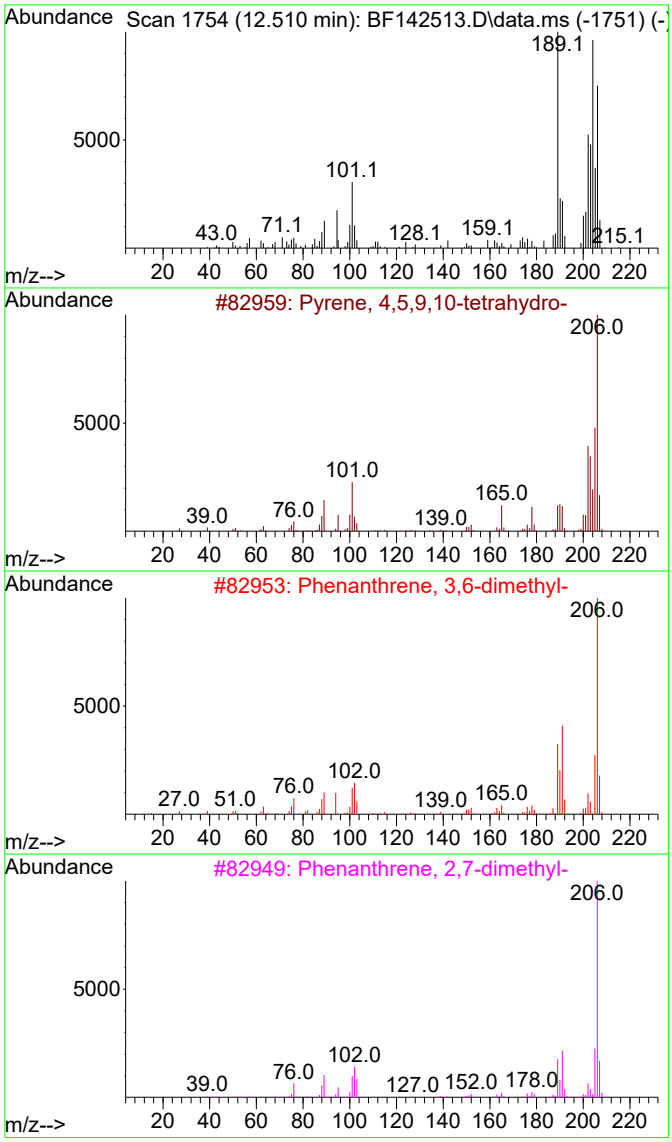
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

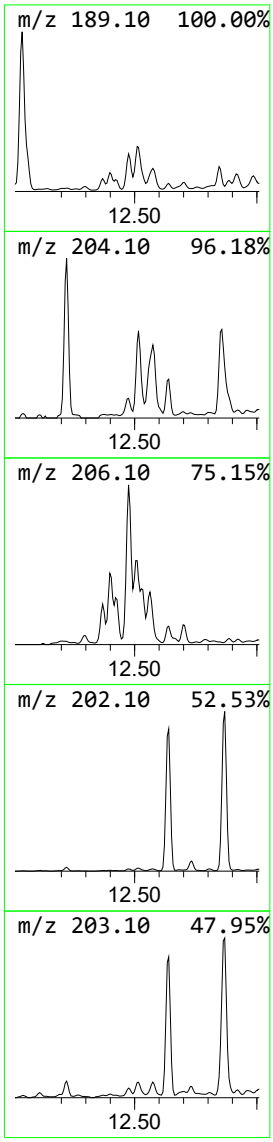
****

Peak Number 9 unknown12.510 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.510	2.78 ng	93277	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38
4	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	30
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

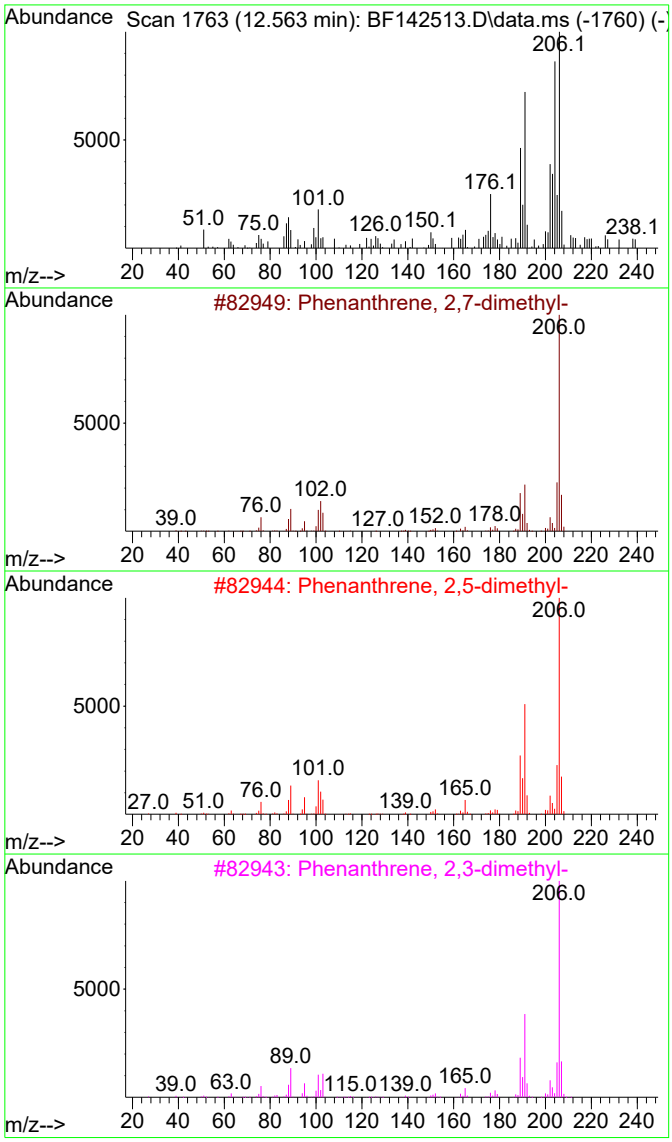
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

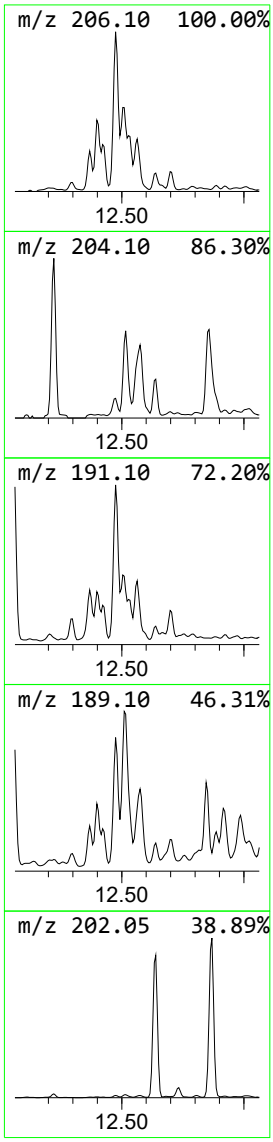
****

Peak Number 10 Phenanthrene, 2,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.563	2.13 ng	71664	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	70
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	64
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	55
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	55
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

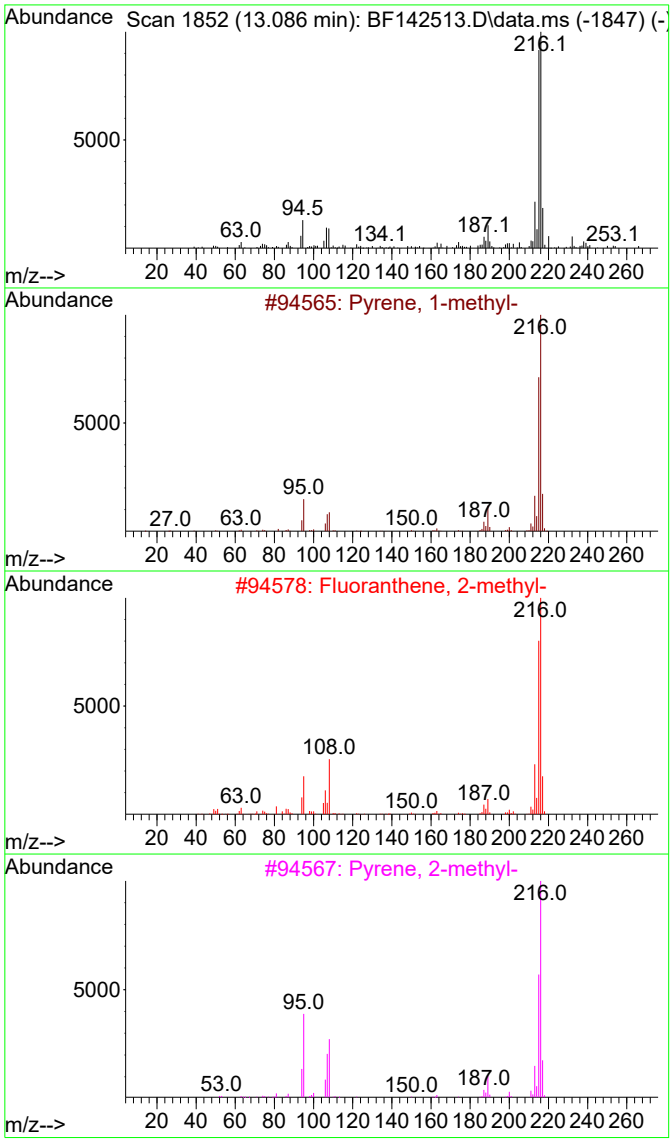
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

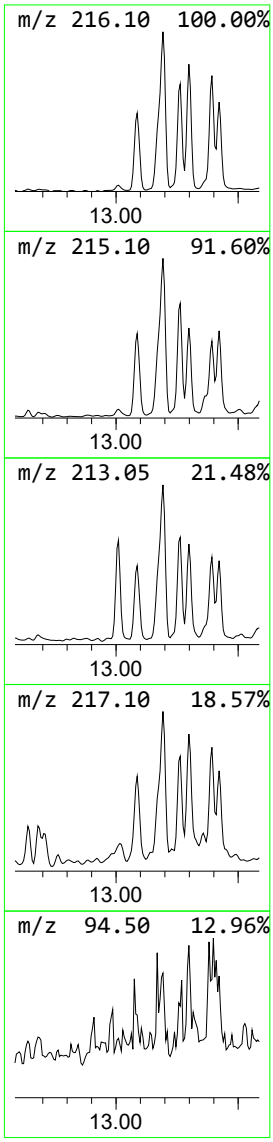
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.086	2.32 ng	115416	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

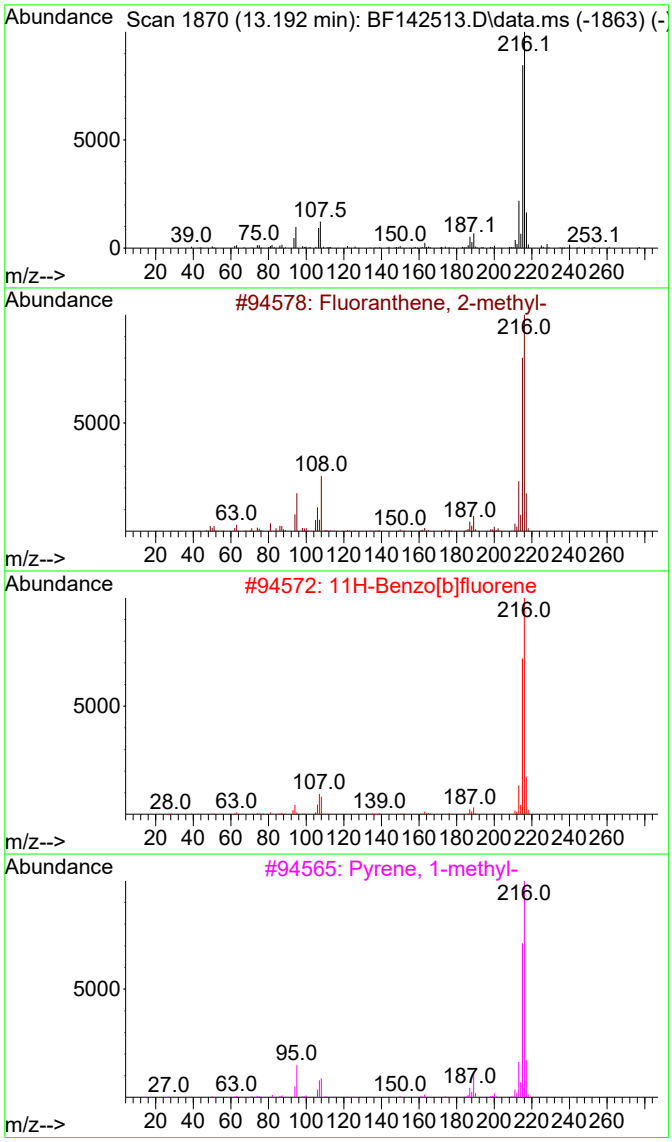
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

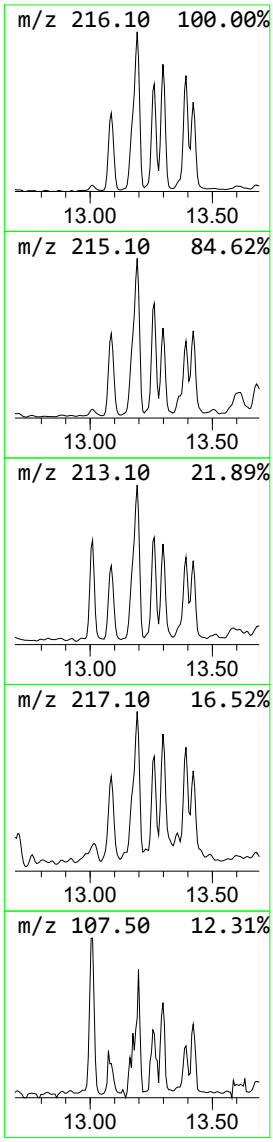
****

Peak Number 12 Fluoranthene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.192	3.87 ng	192793	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

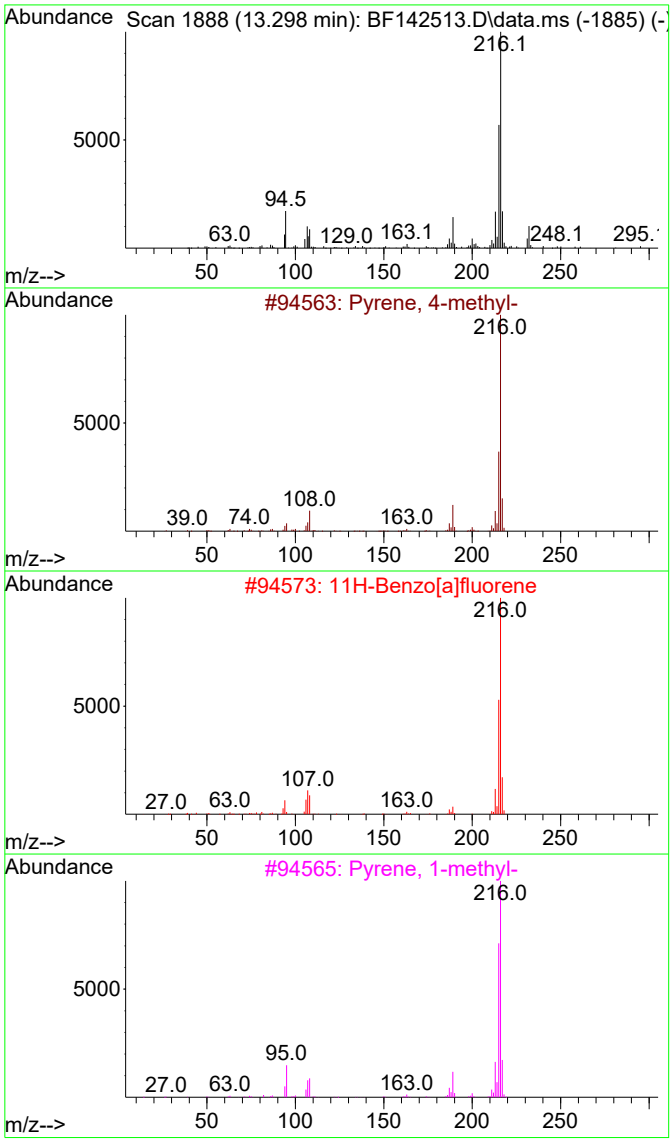
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

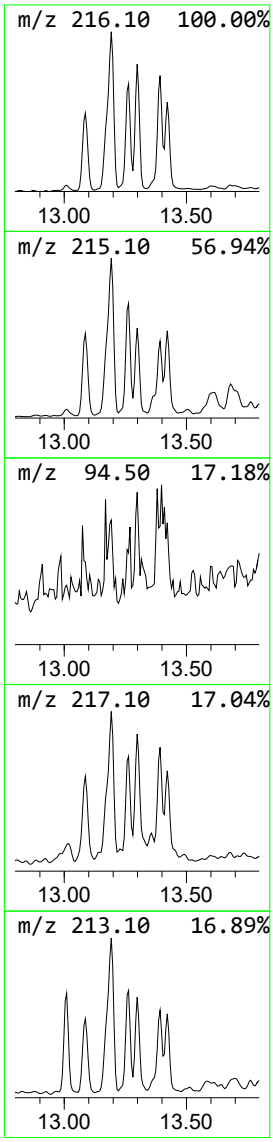
****

Peak Number 13 Pyrene, 4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.298	2.28 ng	113673	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

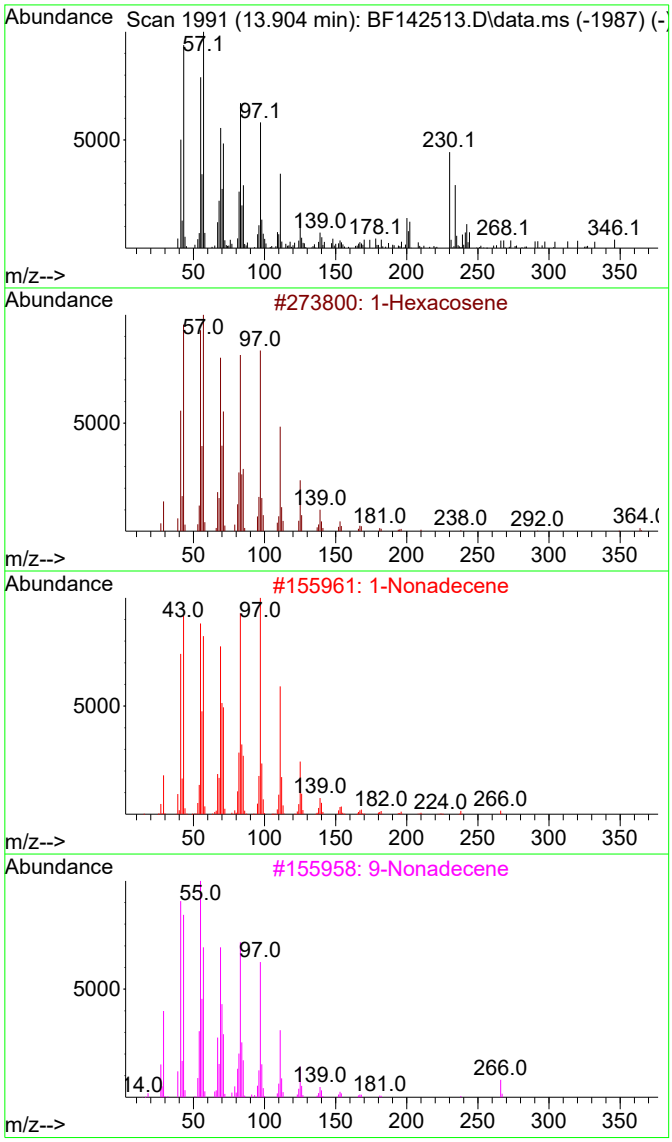
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

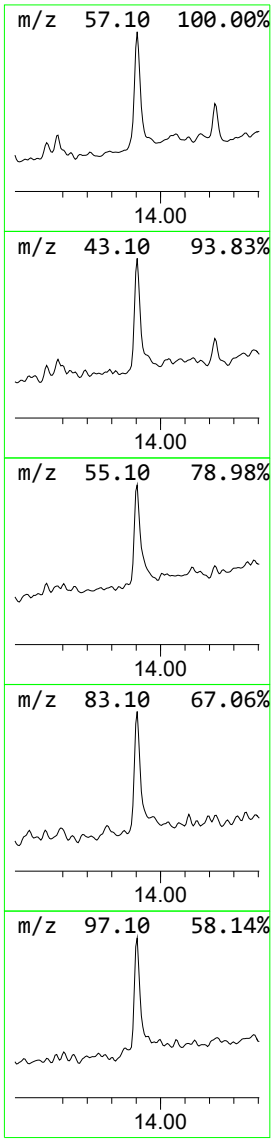
****

Peak Number 14 1-Hexacosene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.33 ng	116094	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	83
2	1-Nonadecene	266	C19H38	018435-45-5	78
3	9-Nonadecene	266	C19H38	031035-07-1	78
4	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	70
5	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

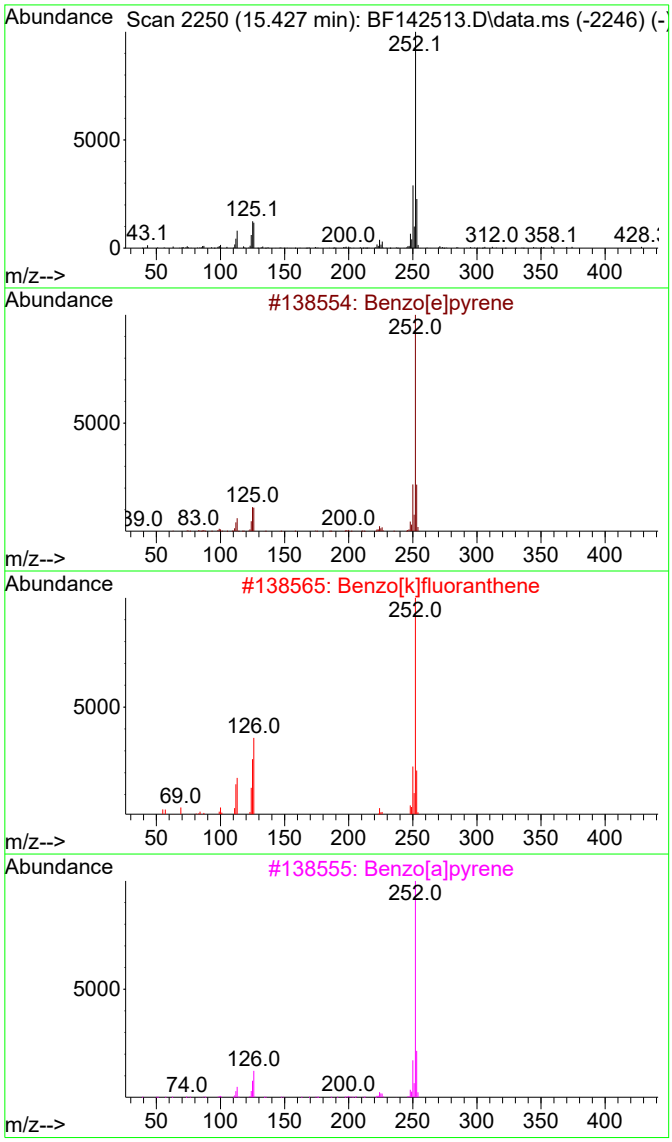
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

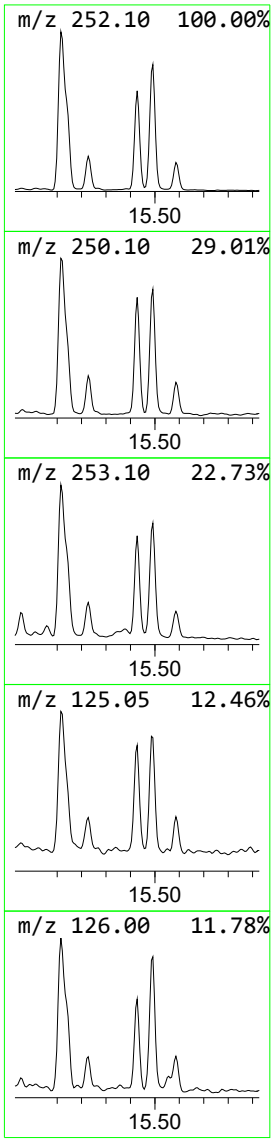
****

Peak Number 15 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.427	5.73 ng	120763	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	91
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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	6.3	ng	186220	1	6.898	590540	20.0
Undecane, 2,6-d...	8.234	2.2	ng	79646	2	8.181	716383	20.0
Oxalic acid, cy...	9.339	2.1	ng	62795	3	9.934	585927	20.0
Decahydro-1,1,4...	9.645	3.3	ng	95284	3	9.934	585927	20.0
Benzophenone	10.645	4.3	ng	126581	3	9.934	585927	20.0
Phenanthrene, 2...	11.945	7.3	ng	245019	4	11.422	671496	20.0
4H-Cyclopenta[d...	12.039	8.5	ng	285039	4	11.422	671496	20.0
Phenanthrene, 2...	12.475	3.4	ng	113076	4	11.422	671496	20.0
unknown12.510	12.510	2.8	ng	93277	4	11.422	671496	20.0
Phenanthrene, 2...	12.563	2.1	ng	71664	4	11.422	671496	20.0
Pyrene, 1-methyl-	13.086	2.3	ng	115416	5	14.063	996343	20.0
Fluoranthene, 2...	13.192	3.9	ng	192793	5	14.063	996343	20.0
Pyrene, 4-methyl-	13.298	2.3	ng	113673	5	14.063	996343	20.0
1-Hexacosene	13.904	2.3	ng	116094	5	14.063	996343	20.0
Benzo[e]pyrene	15.427	5.7	ng	120763	6	15.557	421422	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Time: May 21 12:42:10 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

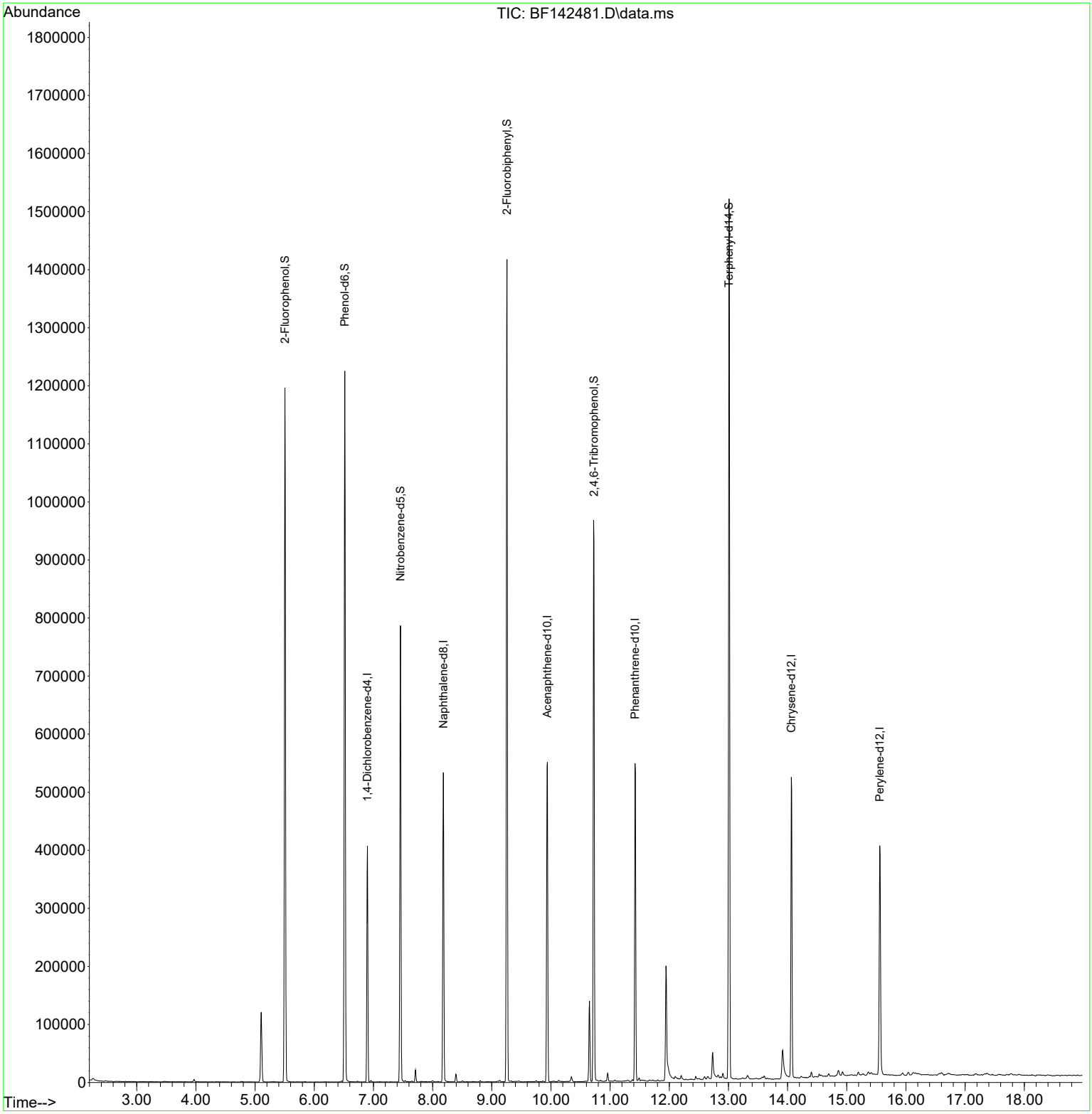
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	88091	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	330115	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	169428	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	293973	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	263519	20.000	ng	-0.01
86) Perylene-d12	15.557	264	238889	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	452174	86.479	ng	-0.01
7) Phenol-d6	6.516	99	564083	89.621	ng	-0.02
23) Nitrobenzene-d5	7.457	82	323927	53.507	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	173761	92.405	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	630689	49.950	ng	-0.01
79) Terphenyl-d14	13.010	244	734064	38.067	ng	0.00
Target Compounds						Qvalue

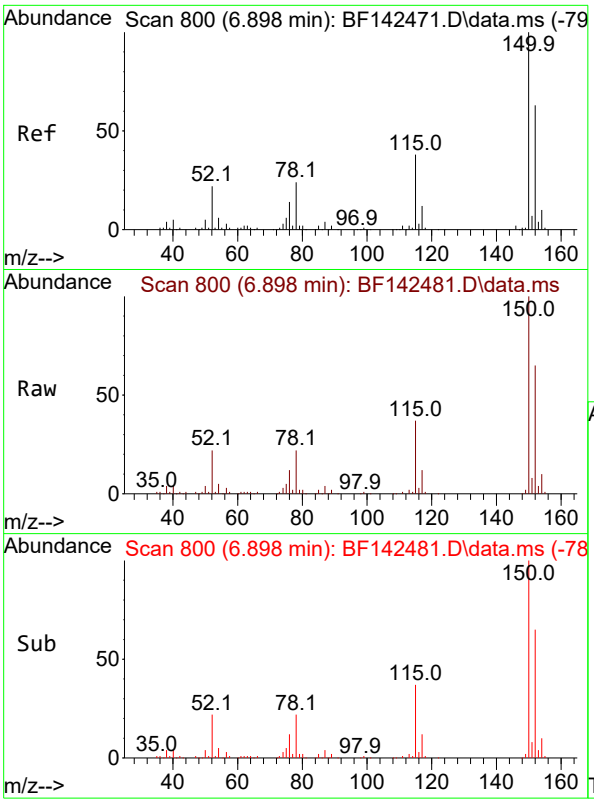
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Time: May 21 12:42:10 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



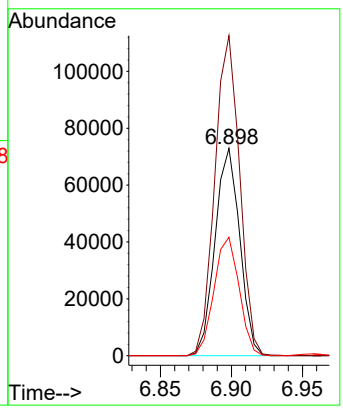


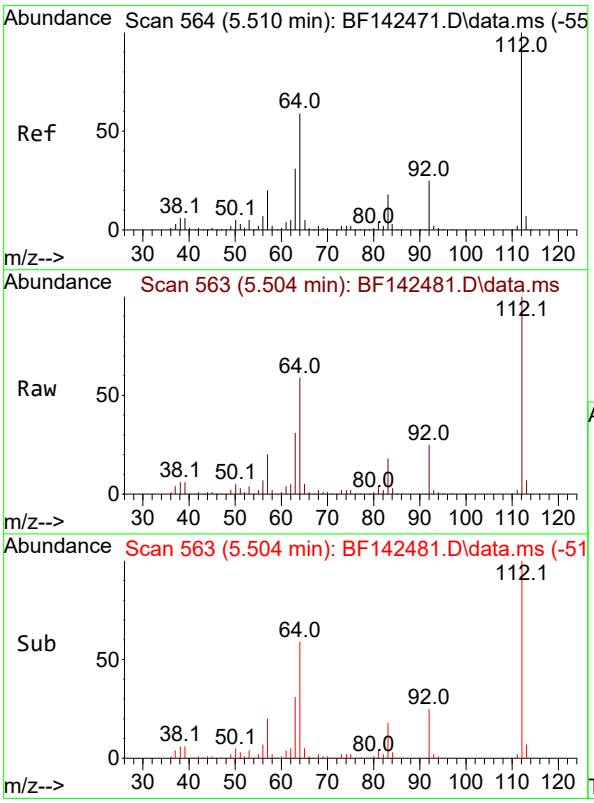
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:152 Resp: 88091

Ion	Ratio	Lower	Upper
152	100		
150	154.4	128.2	192.4
115	57.1	48.3	72.5

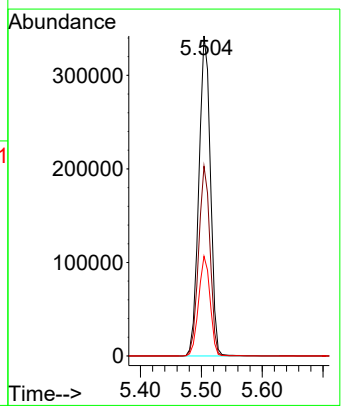


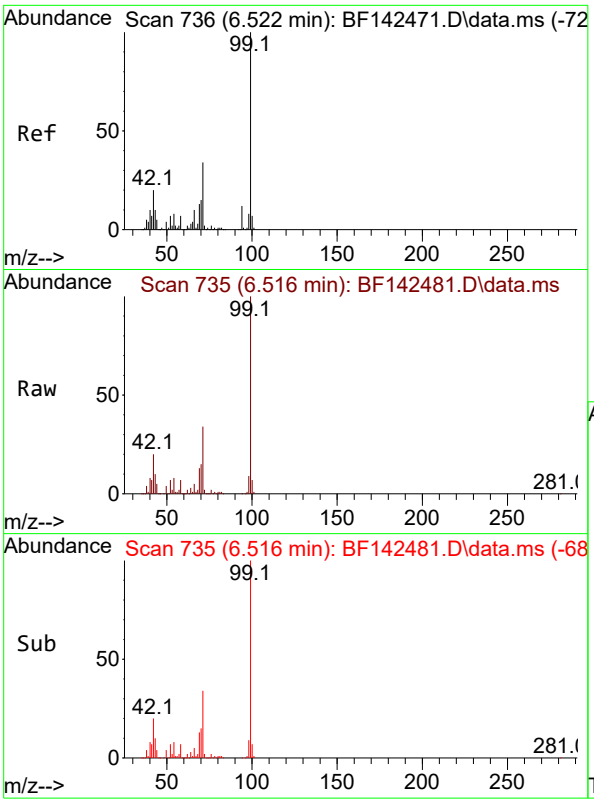


#5
2-Fluorophenol
Concen: 86.479 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:112 Resp: 452174

Ion	Ratio	Lower	Upper
112	100		
64	59.3	47.5	71.3
63	31.1	24.9	37.3



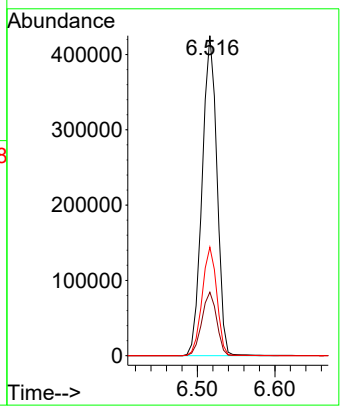


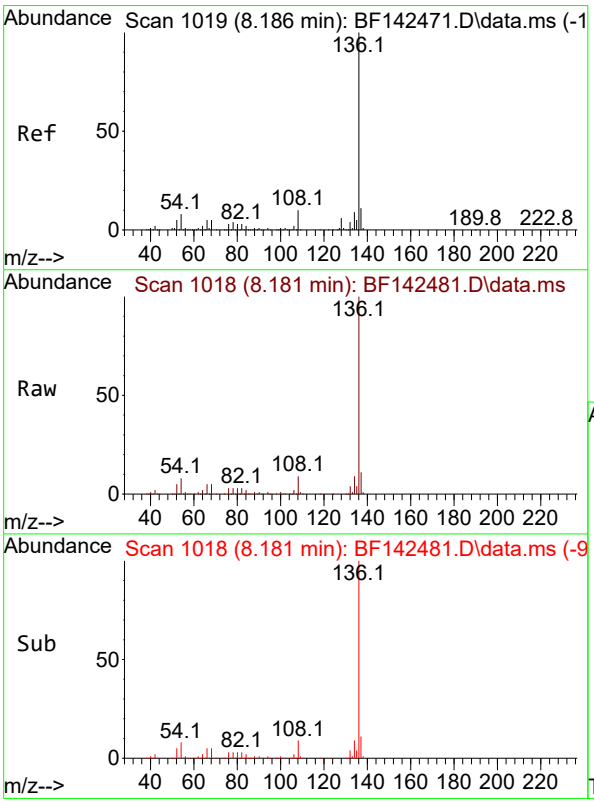
#7
Phenol-d6
Concen: 89.621 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion: 99 Resp: 564083

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.2	24.2
71	33.9	27.3	40.9

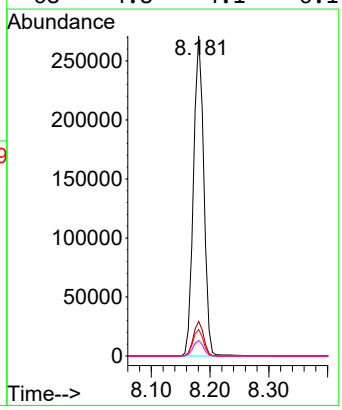


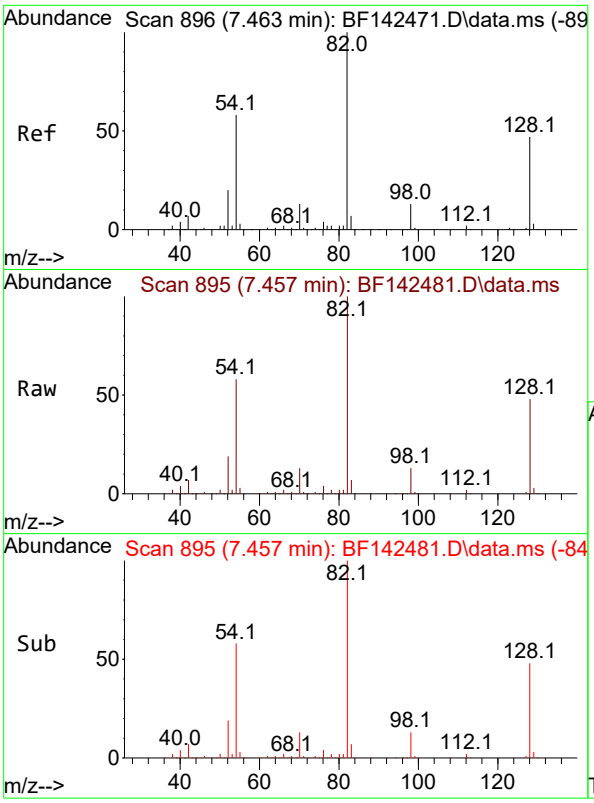


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:136 Resp: 330115

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.3	6.6	10.0
68	4.8	4.1	6.1



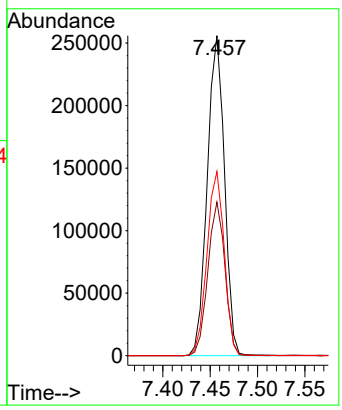


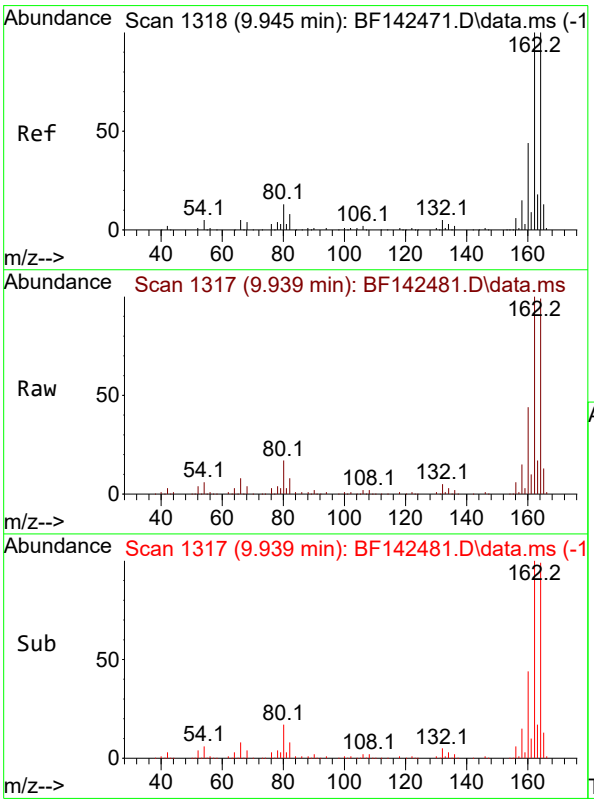
#23
Nitrobenzene-d5
Concen: 53.507 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion: 82 Resp: 323927

Ion	Ratio	Lower	Upper
82	100		
128	48.0	37.4	56.2
54	57.5	46.6	70.0

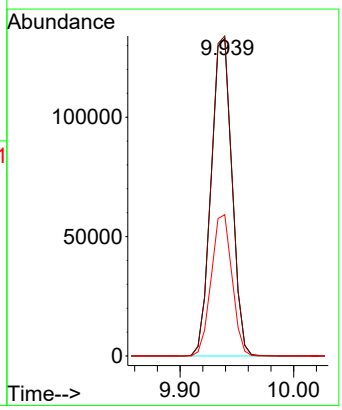


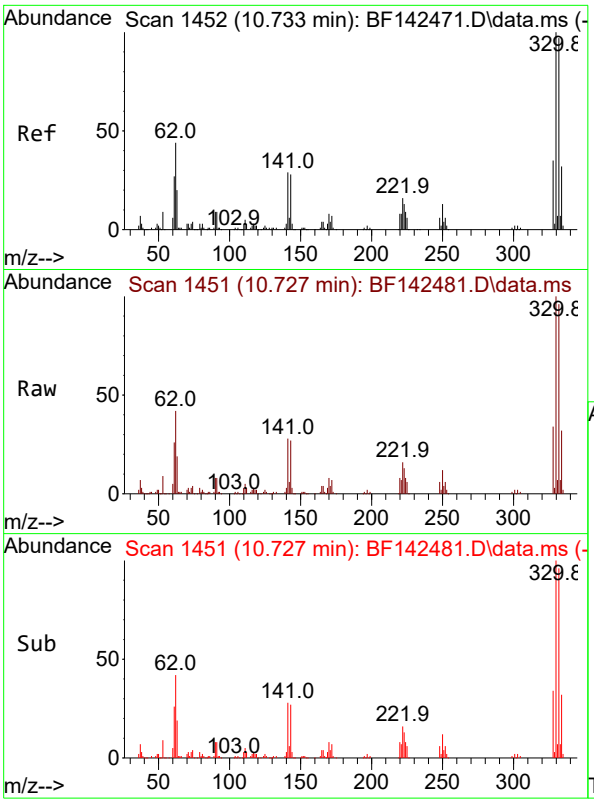


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:164 Resp: 169428

Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.2	120.4
160	44.5	35.6	53.4



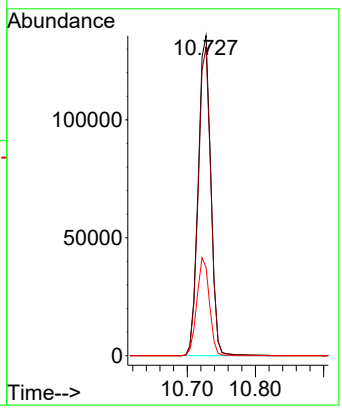


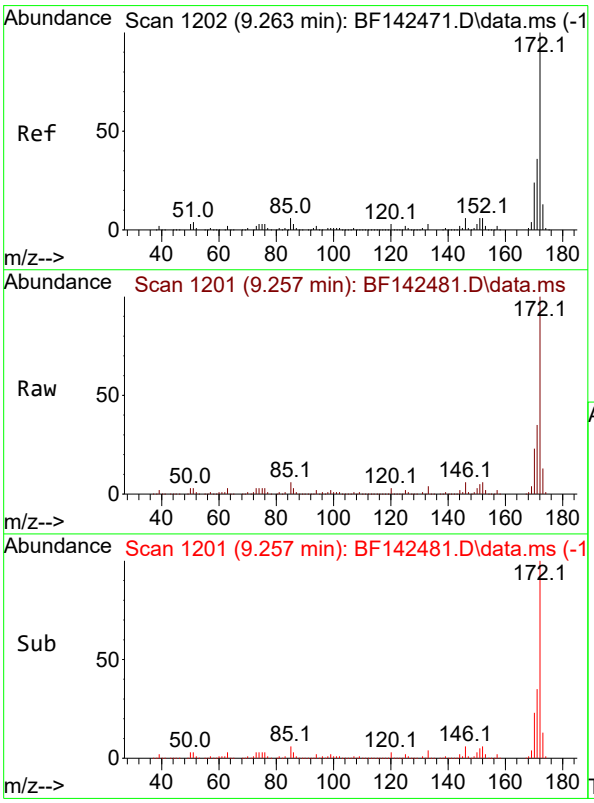
#42
2,4,6-Tribromophenol
Concen: 92.405 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:330 Resp: 173761

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.6	116.4
141	30.3	24.6	36.8

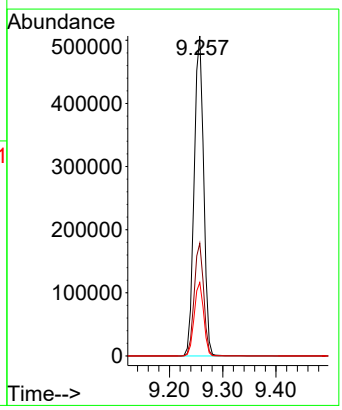


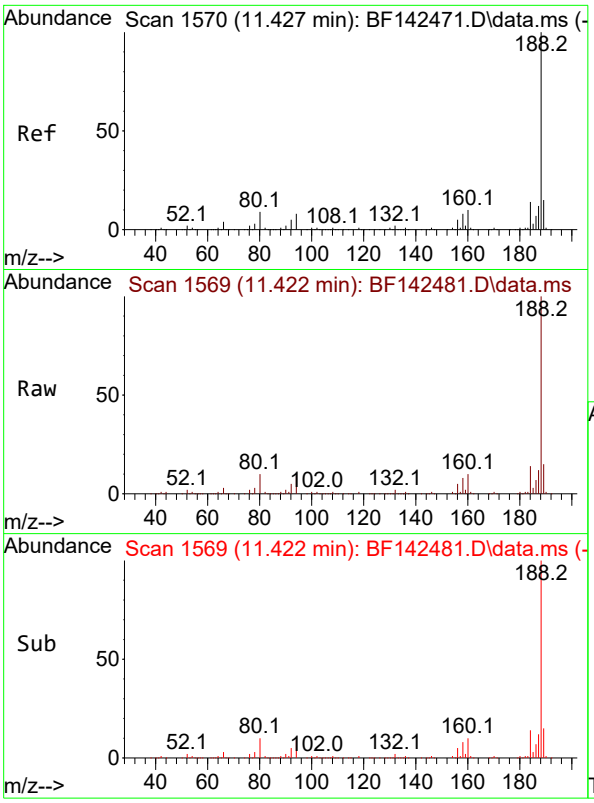


#45
2-Fluorobiphenyl
Concen: 49.950 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:172 Resp: 630689

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	22.9	18.9	28.3



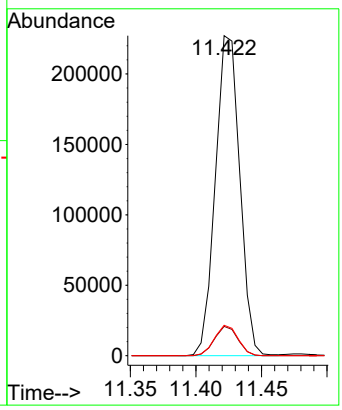


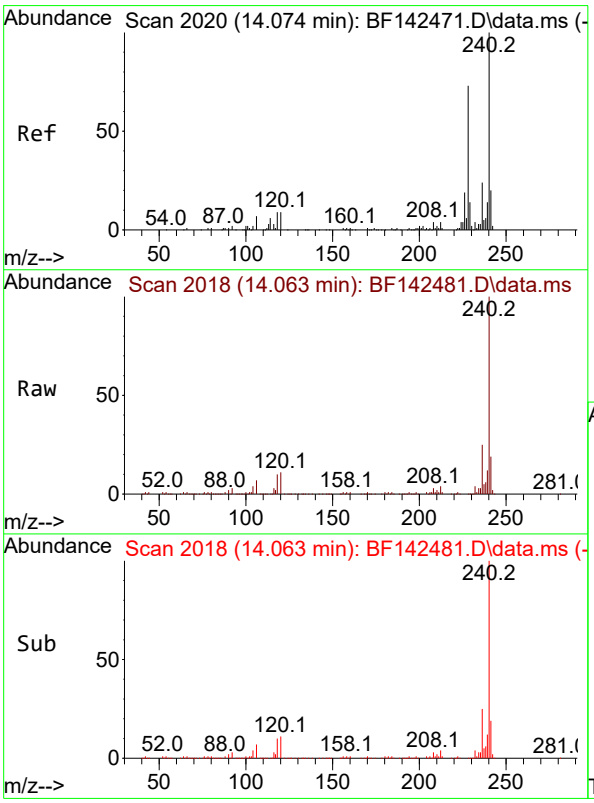
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:188 Resp: 293973

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.5	7.4	11.0

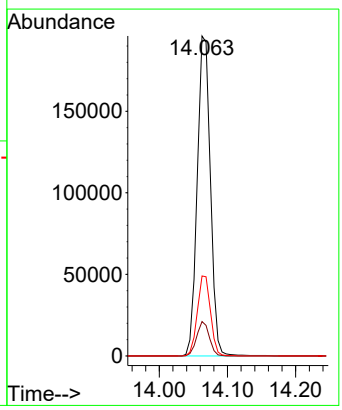


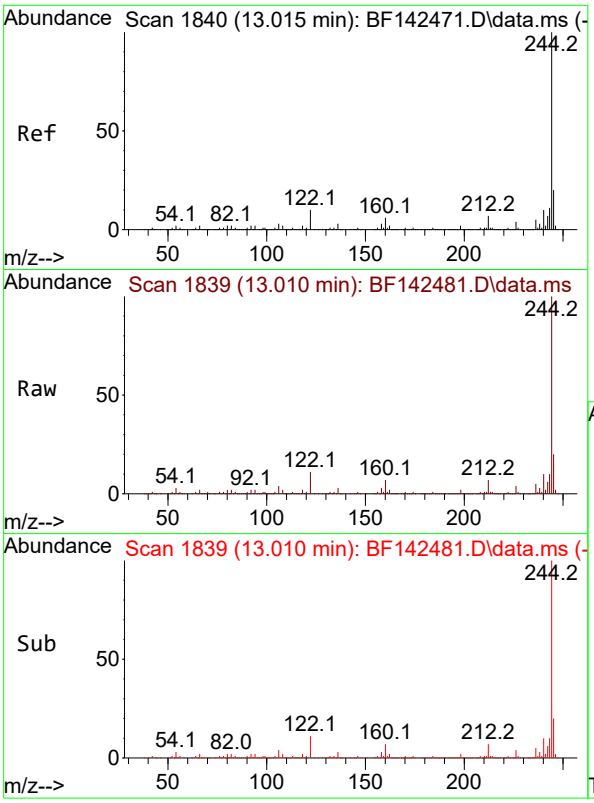


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:240 Resp: 263519

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	25.0	19.6	29.4



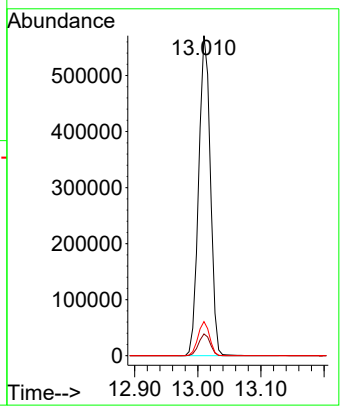


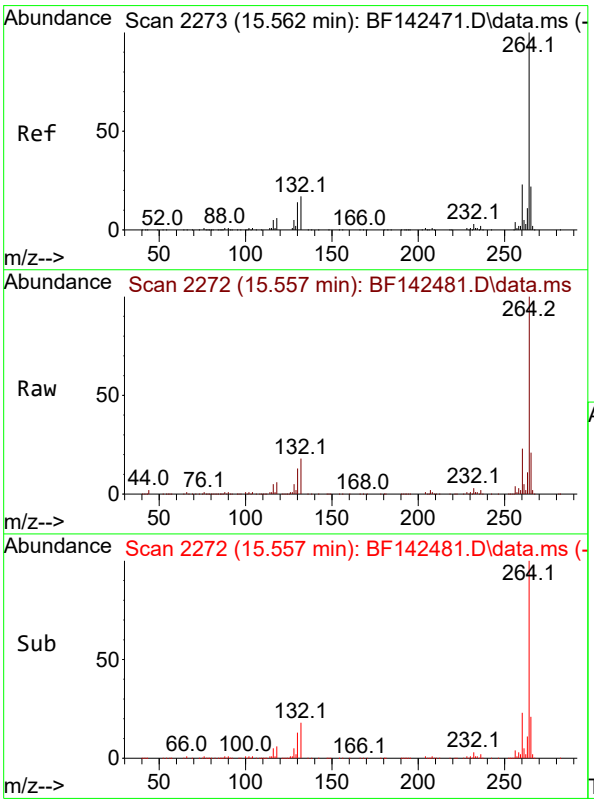
#79
Terphenyl-d14
Concen: 38.067 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:244 Resp: 734064

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.7	8.2	12.2

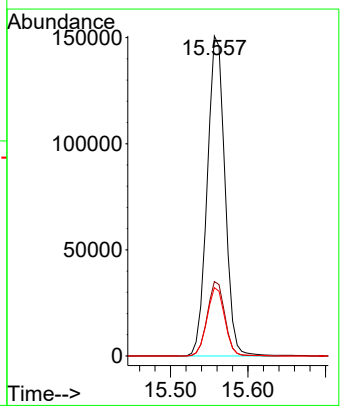




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:264 Resp: 238889

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

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

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

Signal : TIC: BF142481.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.104	486	495	503	rBV	120451	176991	9.14%	1.269%
2	5.504	557	563	568	rBV	1195118	1563966	80.81%	11.211%
3	6.516	729	735	740	rBV	1224037	1633475	84.40%	11.709%
4	6.898	795	800	805	rBV	406273	494665	25.56%	3.546%
5	7.457	889	895	900	rBV	785864	990737	51.19%	7.102%
6	7.710	934	938	943	rBV	20428	24233	1.25%	0.174%
7	8.181	1013	1018	1023	rBV	532892	643550	33.25%	4.613%
8	9.257	1195	1201	1206	rBV	1416383	1763864	91.14%	12.644%
9	9.939	1311	1317	1322	rBV	550338	703973	36.37%	5.046%
10	10.651	1432	1438	1445	rVB	138440	171874	8.88%	1.232%
11	10.722	1445	1450	1466	rBV	966898	1264258	65.32%	9.063%
12	11.422	1564	1569	1575	rBV	546570	701153	36.23%	5.026%
13	11.945	1652	1658	1681	rBV2	197554	352103	18.19%	2.524%
14	12.733	1787	1792	1804	rBV	45077	83476	4.31%	0.598%
15	13.010	1833	1839	1844	rBV	1515178	1935391	100.00%	13.874%
16	13.915	1986	1993	2011	rBV	48952	131856	6.81%	0.945%
17	14.063	2013	2018	2027	rVB	517600	687401	35.52%	4.928%
18	15.557	2266	2272	2285	rVB	394520	627239	32.41%	4.496%

Sum of corrected areas: 13950205

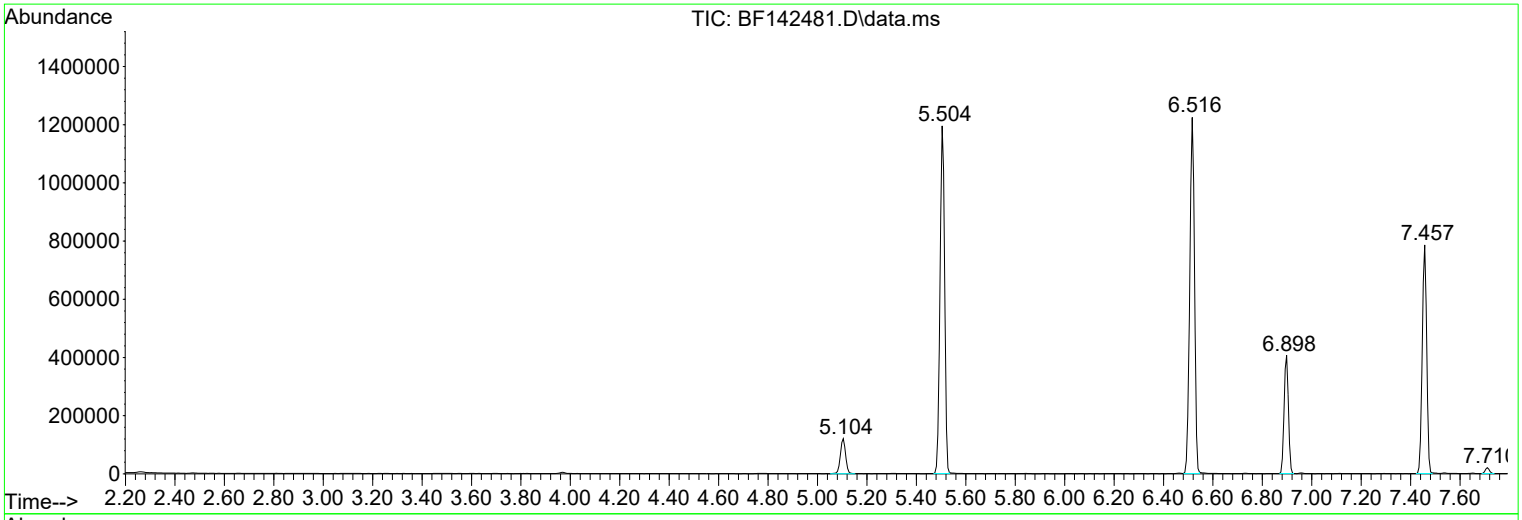
Sample Results: **BF142481.D**

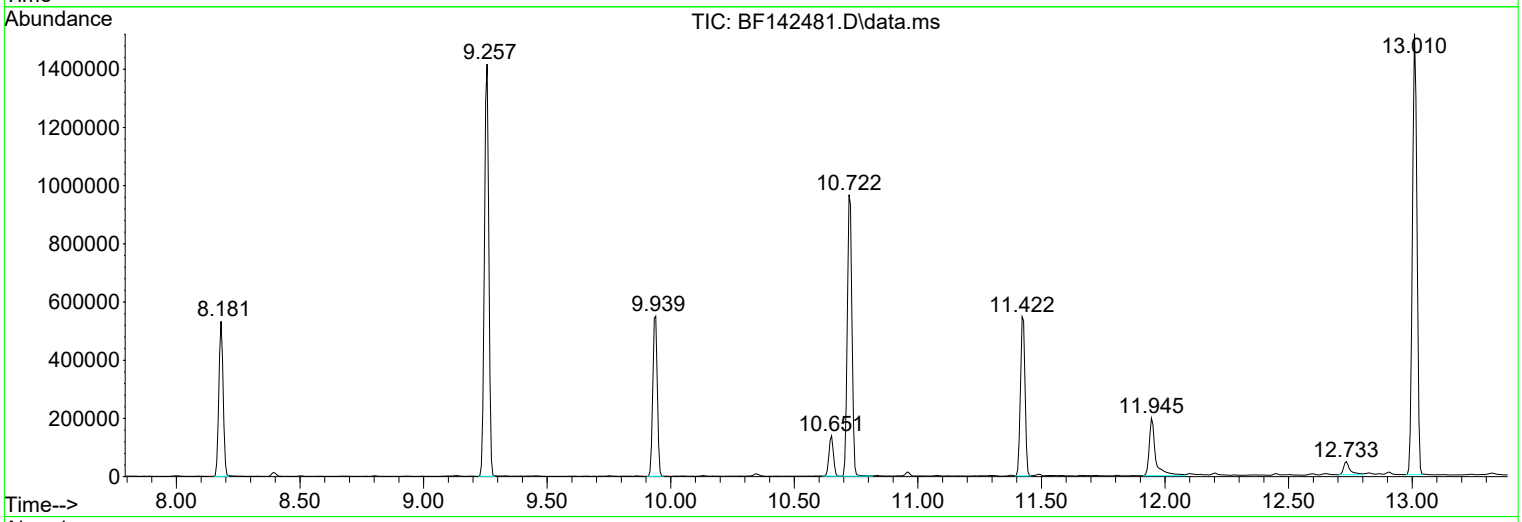
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

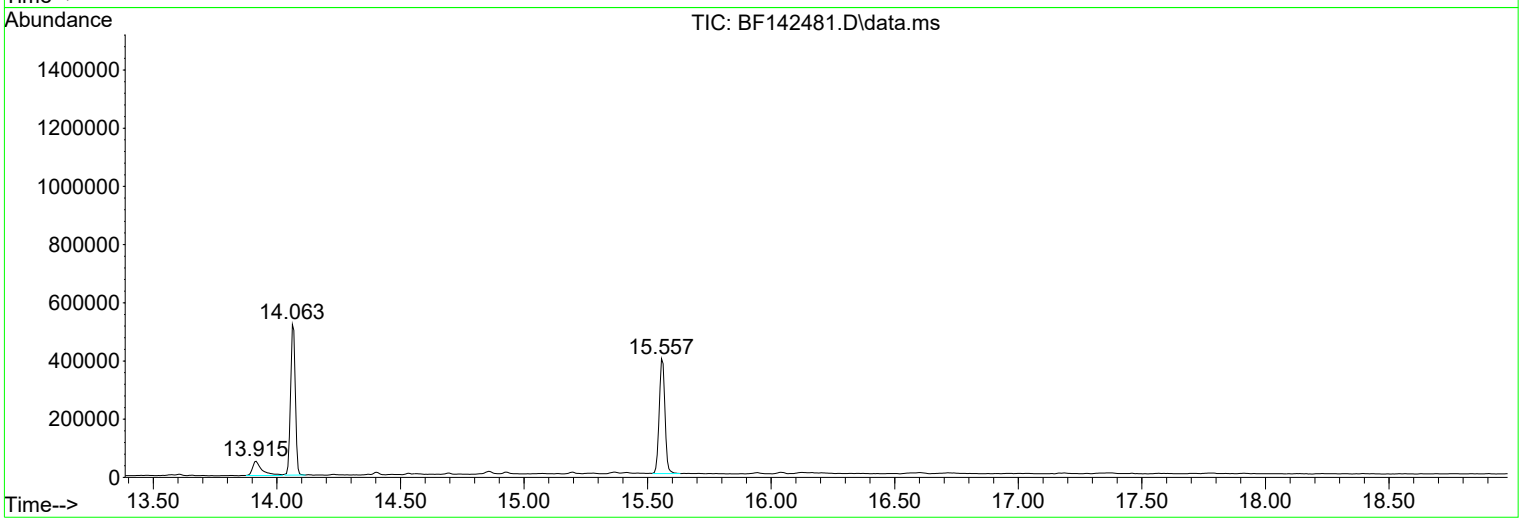
Instrument :
BNA_F
ClientSampleId :
TP-7

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\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

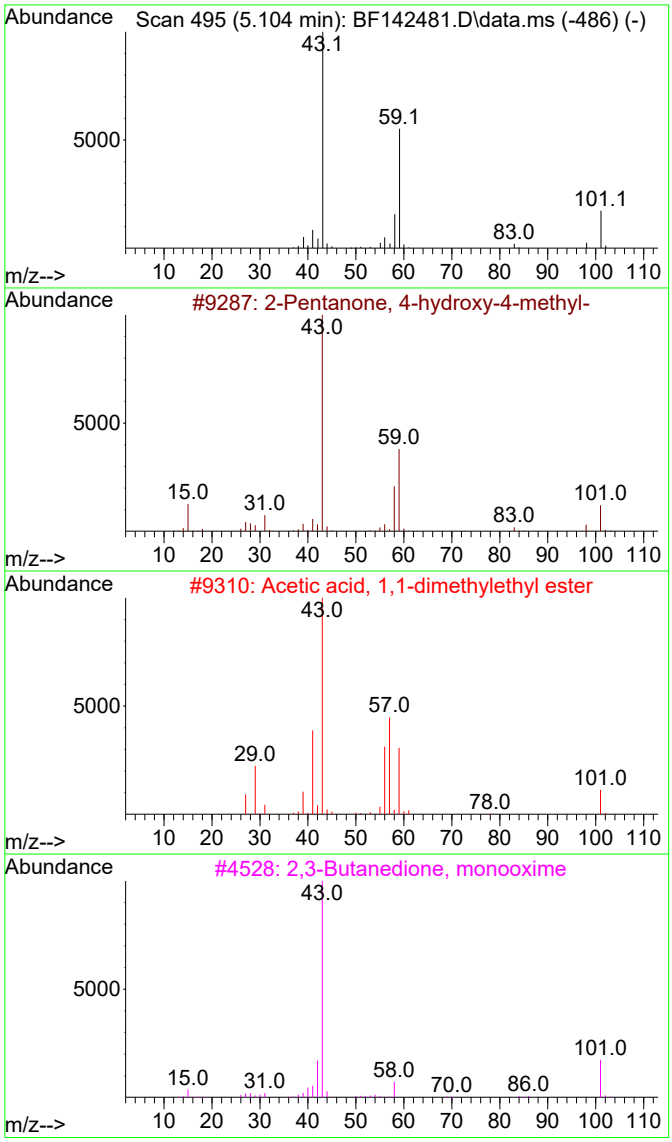
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

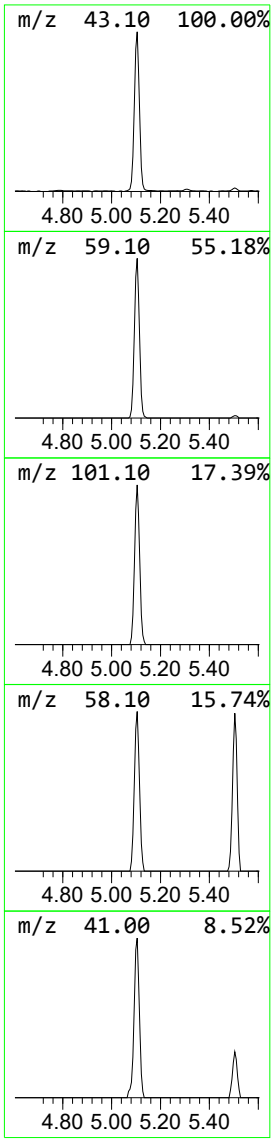
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	7.16 ng	176991	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, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

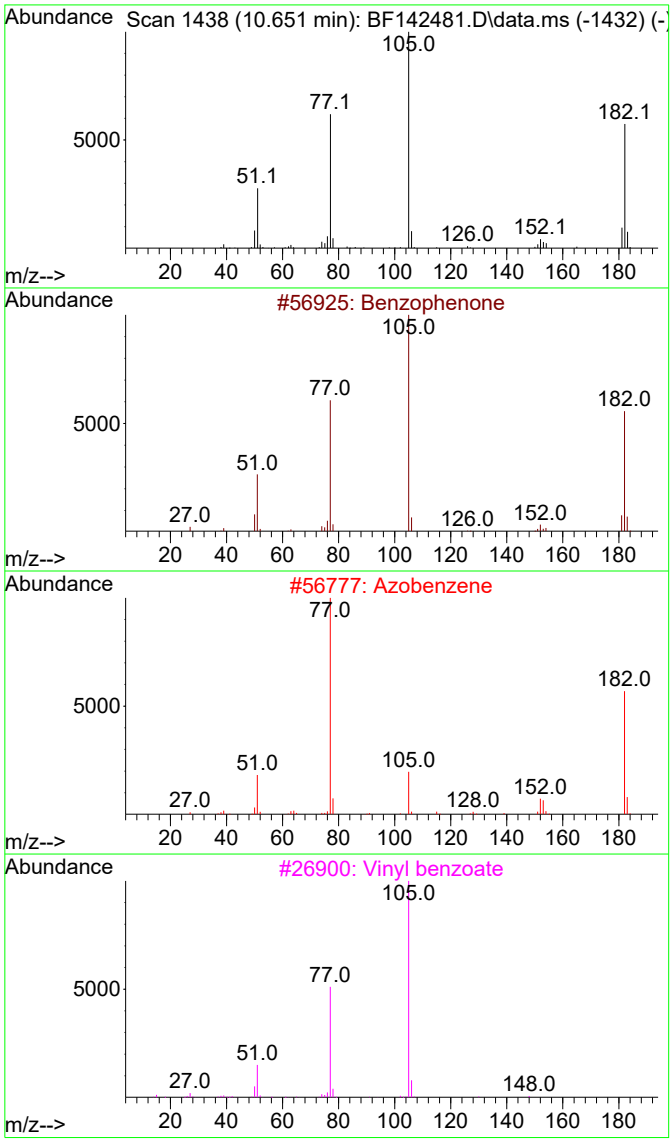
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

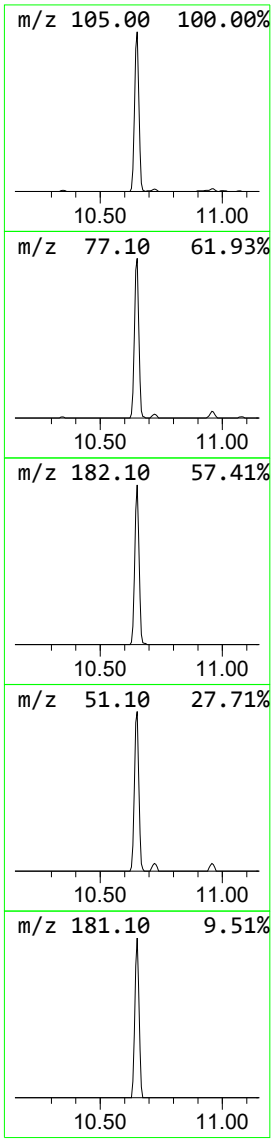
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.88 ng	171874	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

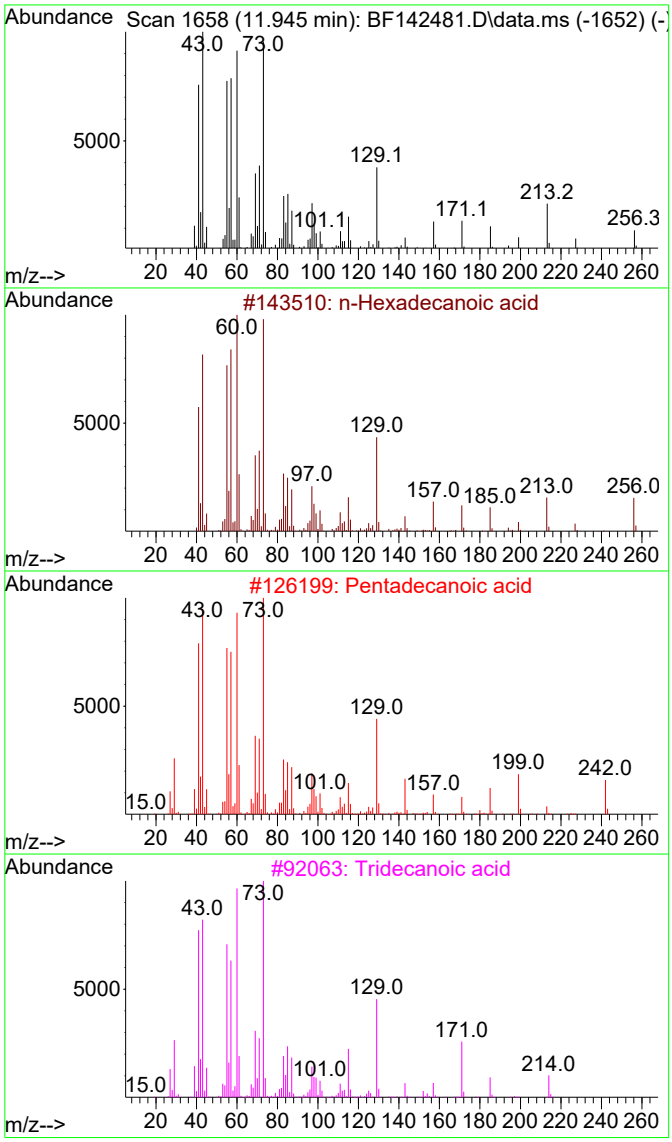
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

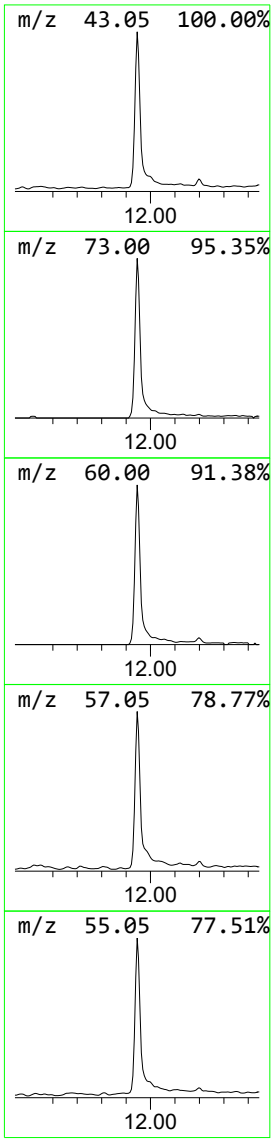
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	10.04 ng	352103	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	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Undecanoic acid	186	C11H22O2	000112-37-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

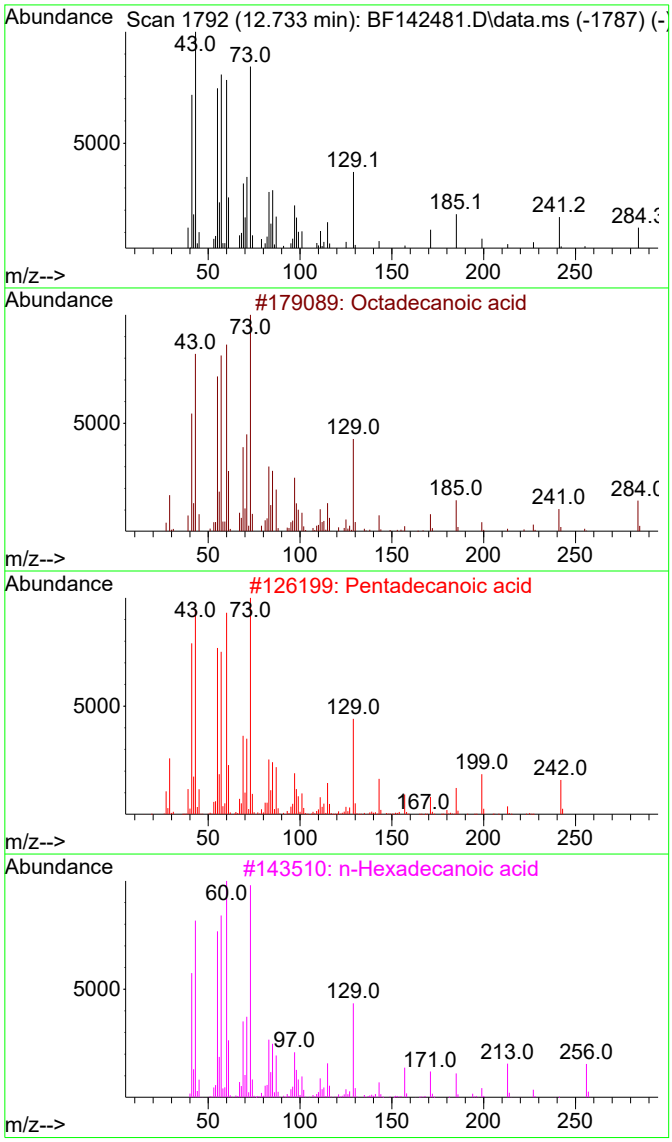
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

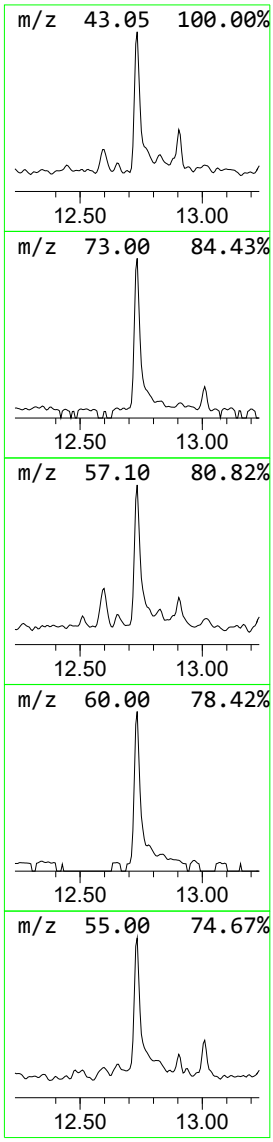
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	2.38 ng	83476	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Dodecanoic acid	200	C12H24O2	000143-07-7	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

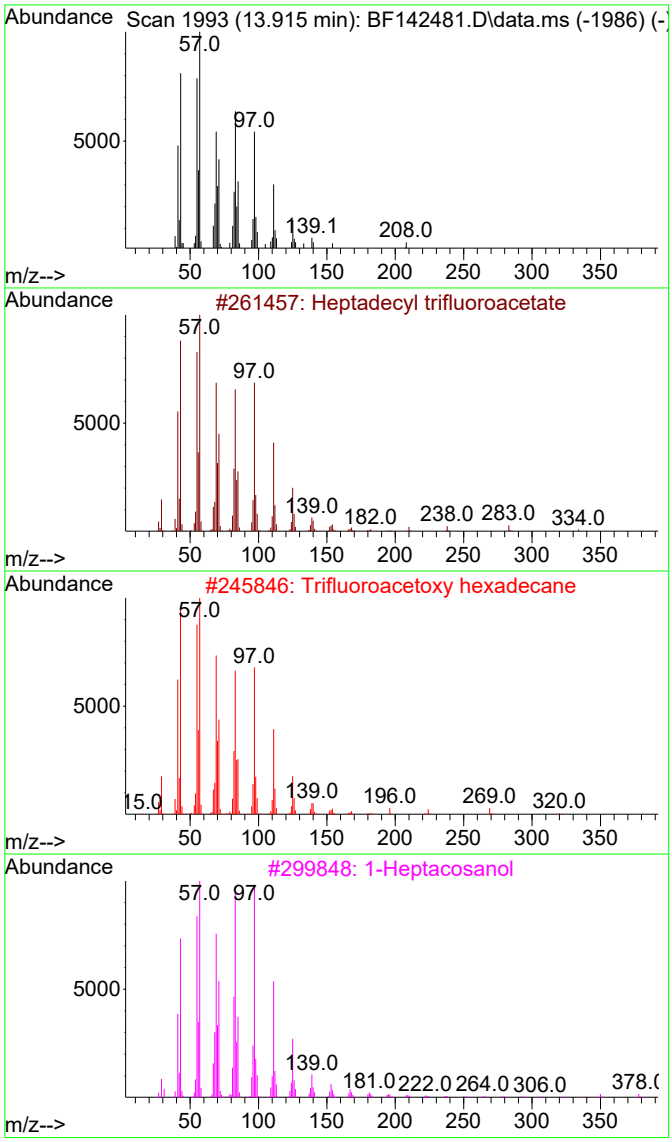
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

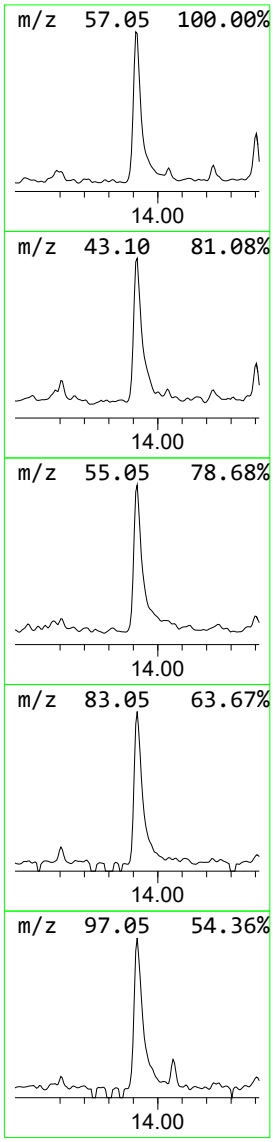
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Heptadecyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.916	3.84 ng	131856	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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-...	5.104	7.2	ng	176991	1	6.898	494665	20.0
Benzophenone	10.651	4.9	ng	171874	3	9.939	703973	20.0
n-Hexadecanoic ...	11.945	10.0	ng	352103	4	11.422	701153	20.0
Octadecanoic acid	12.733	2.4	ng	83476	4	11.422	701153	20.0
Heptadecyl trif...	13.916	3.8	ng	131856	5	14.063	687401	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Time: May 23 01:22:23 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

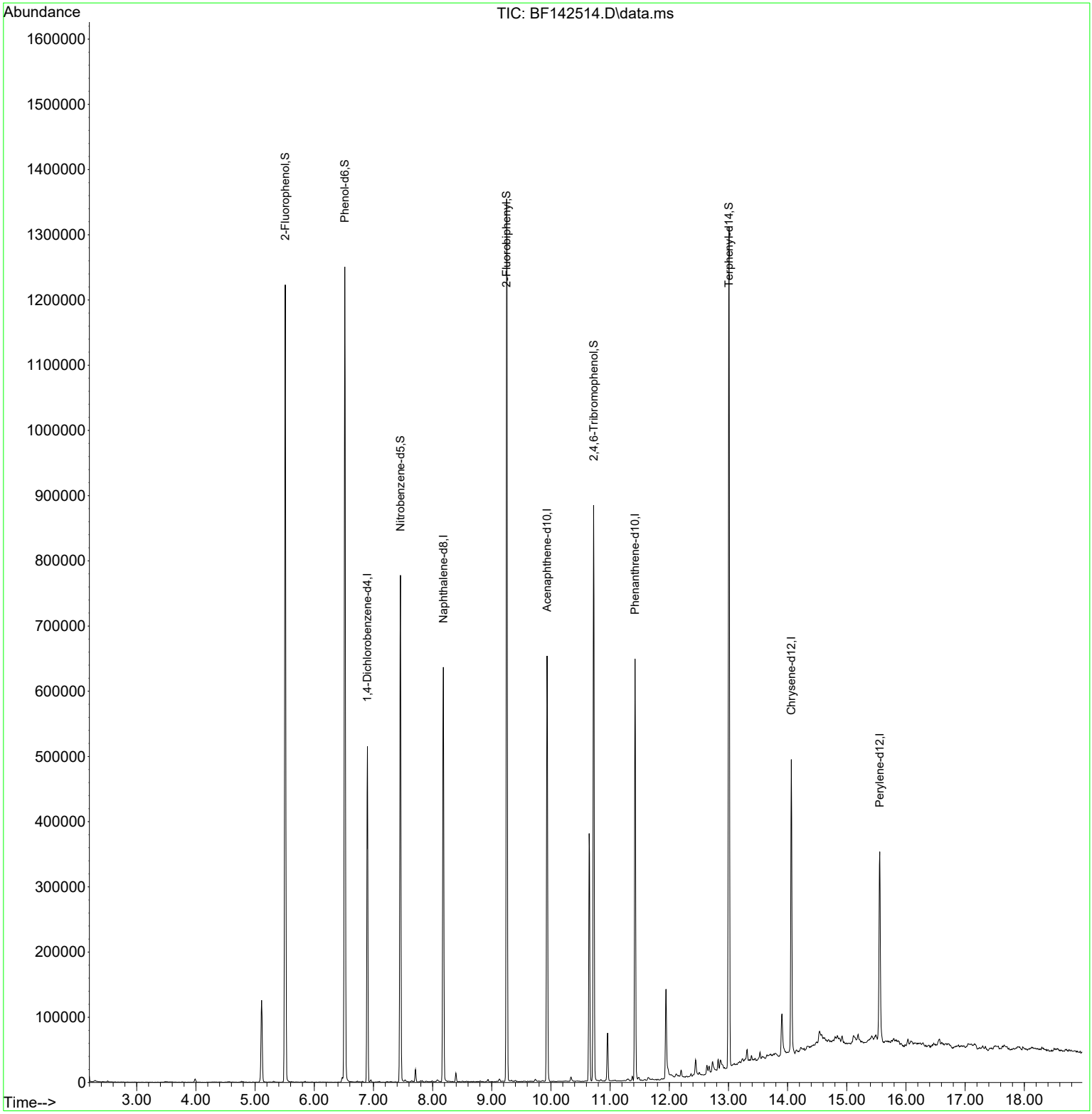
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	111156	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	403247	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	196334	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	331001	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	212263	20.000	ng	-0.01
86) Perylene-d12	15.557	264	172640	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	462988	70.174	ng	0.00
7) Phenol-d6	6.516	99	573497	72.210	ng	-0.02
23) Nitrobenzene-d5	7.457	82	322818	43.653	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	150454	69.045	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	615030	42.035	ng	-0.02
79) Terphenyl-d14	13.010	244	634371	40.841	ng	0.00
Target Compounds						Qvalue

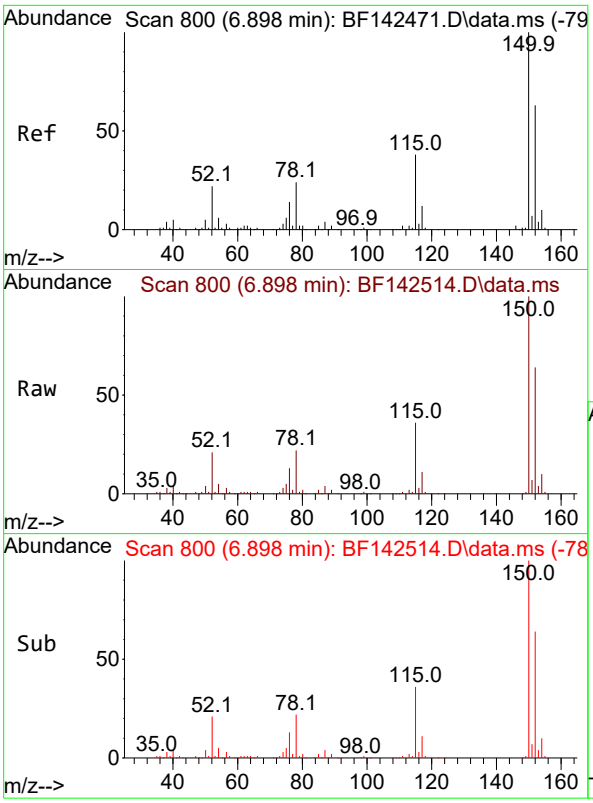
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Time: May 23 01:22:23 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



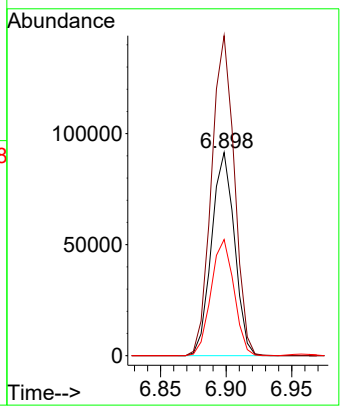


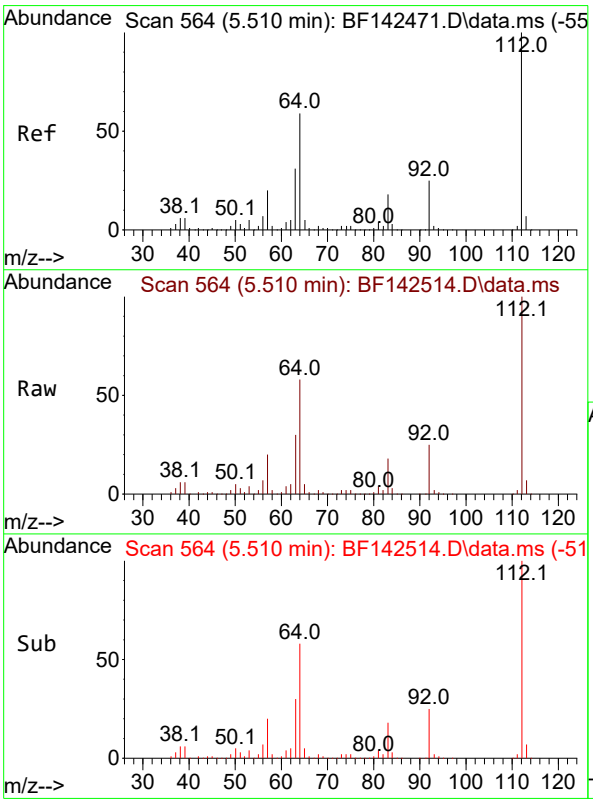
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:152 Resp: 111156

Ion	Ratio	Lower	Upper
152	100		
150	157.5	128.2	192.4
115	57.1	48.3	72.5

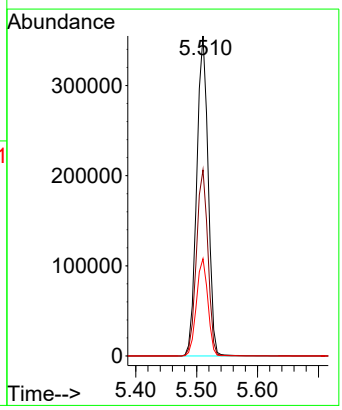


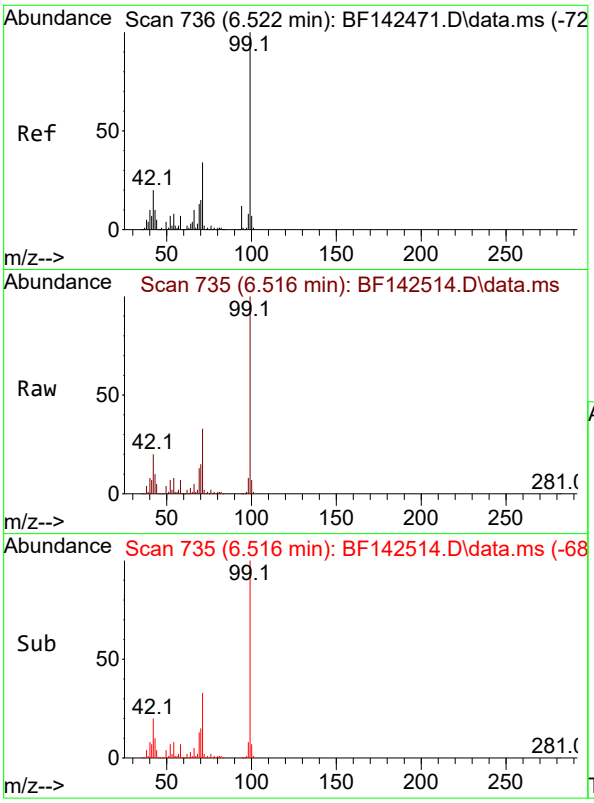


#5
2-Fluorophenol
Concen: 70.174 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:112 Resp: 462988

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.4	24.9	37.3



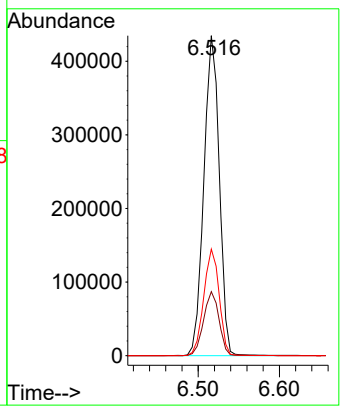


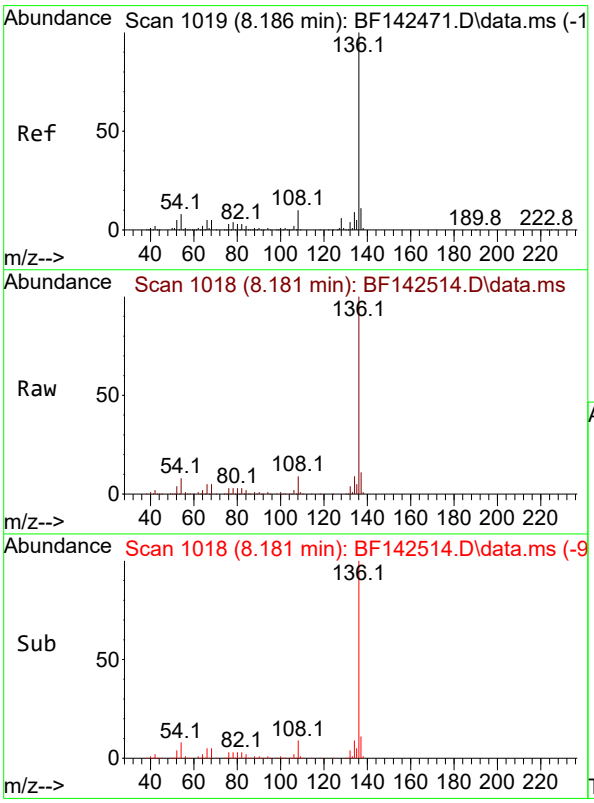
#7
Phenol-d6
Concen: 72.210 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion: 99 Resp: 573497

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.3	27.3	40.9

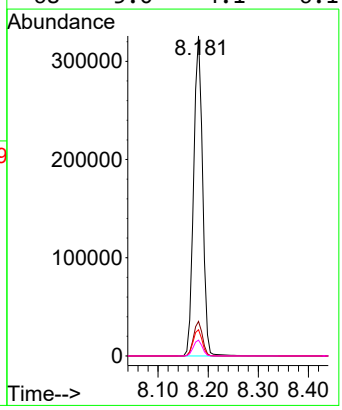


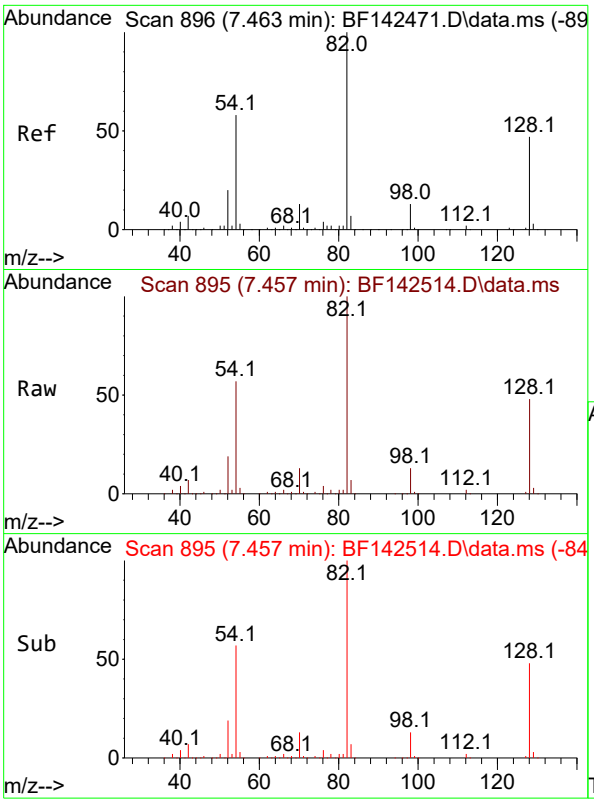


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:136 Resp: 403247

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.2	6.6	10.0
68	5.0	4.1	6.1



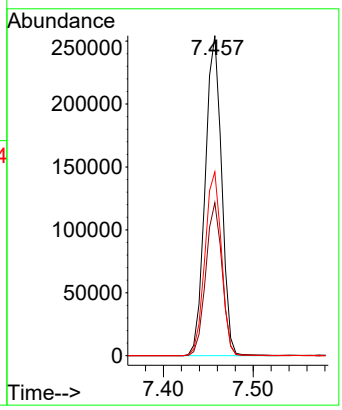


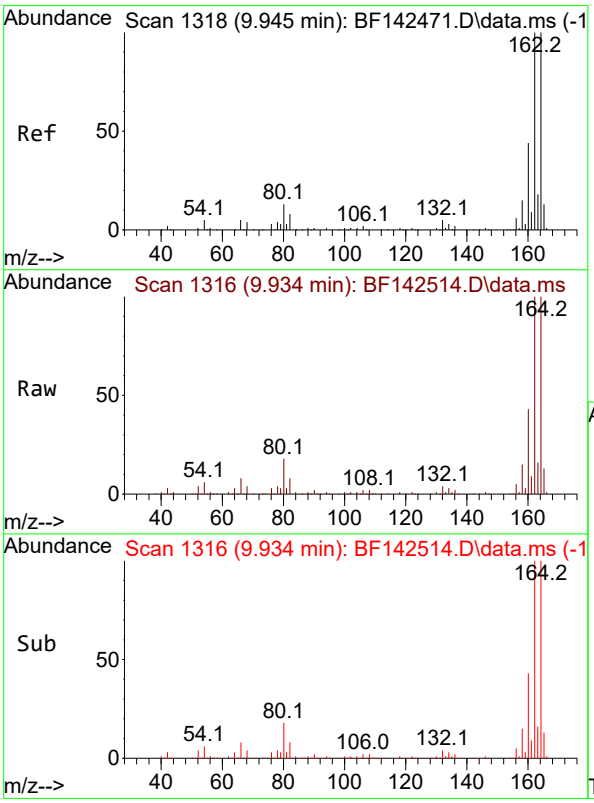
#23
Nitrobenzene-d5
Concen: 43.653 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion: 82 Resp: 322818

Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.4	56.2
54	57.5	46.6	70.0

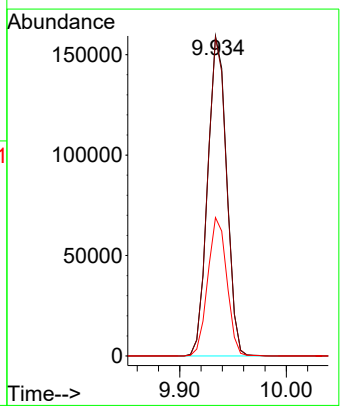


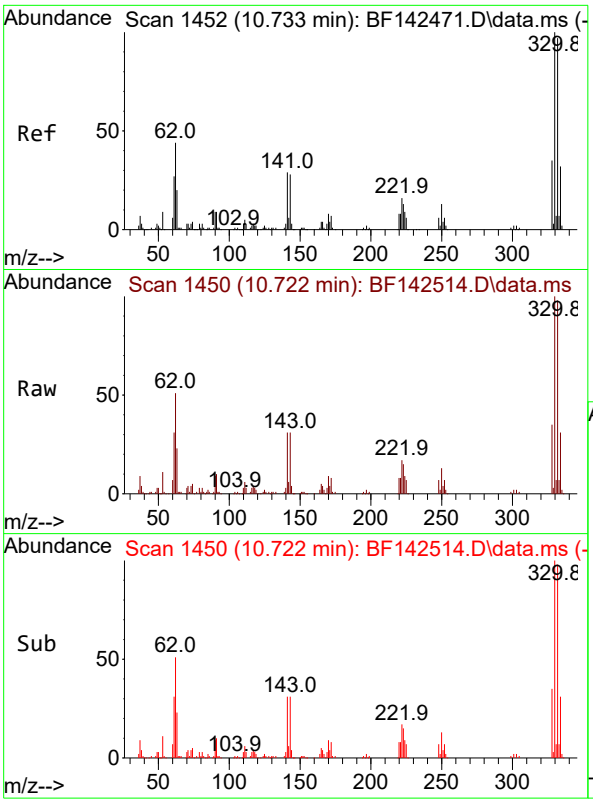


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:164 Resp: 196334

Ion	Ratio	Lower	Upper
164	100		
162	99.6	80.2	120.4
160	43.3	35.6	53.4



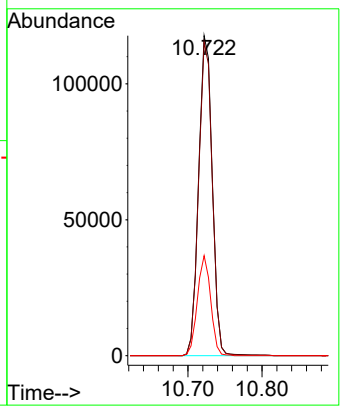


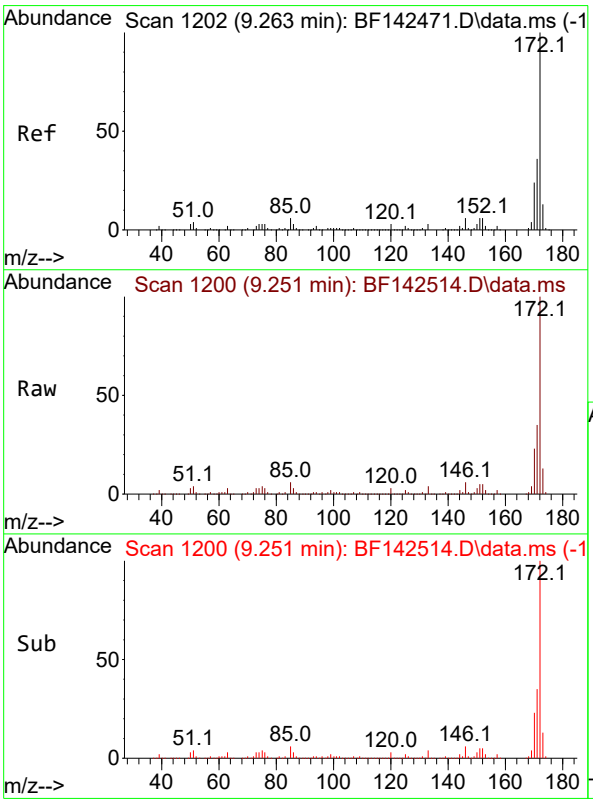
#42
2,4,6-Tribromophenol
Concen: 69.045 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:330 Resp: 150454

Ion	Ratio	Lower	Upper
330	100		
332	98.2	77.6	116.4
141	30.4	24.6	36.8

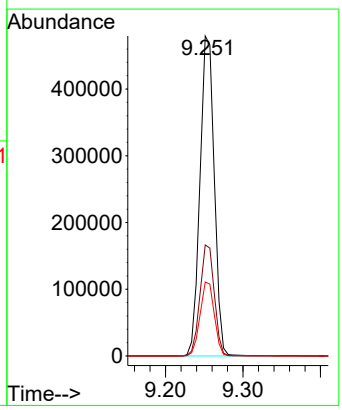


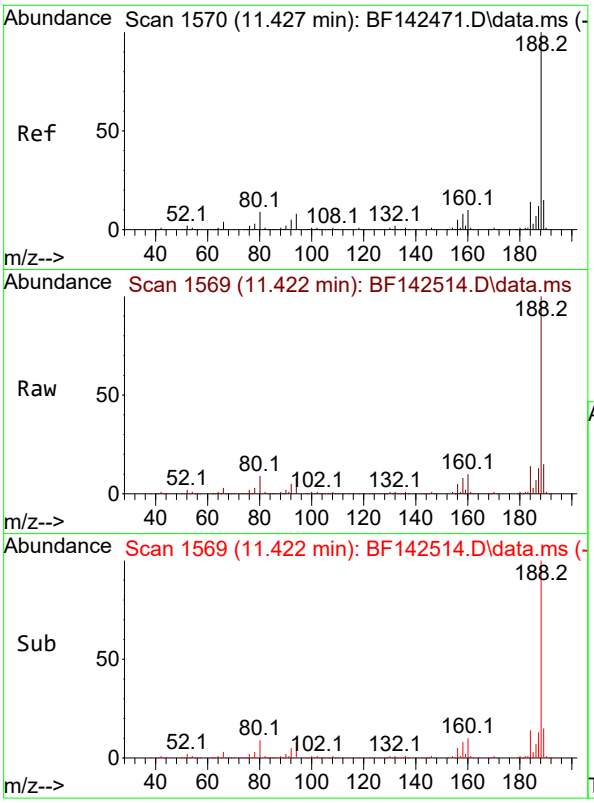


#45
2-Fluorobiphenyl
Concen: 42.035 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:172 Resp: 615030

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	23.1	18.9	28.3



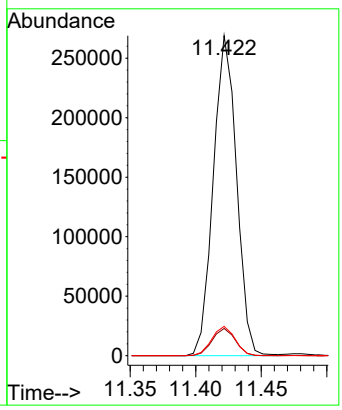


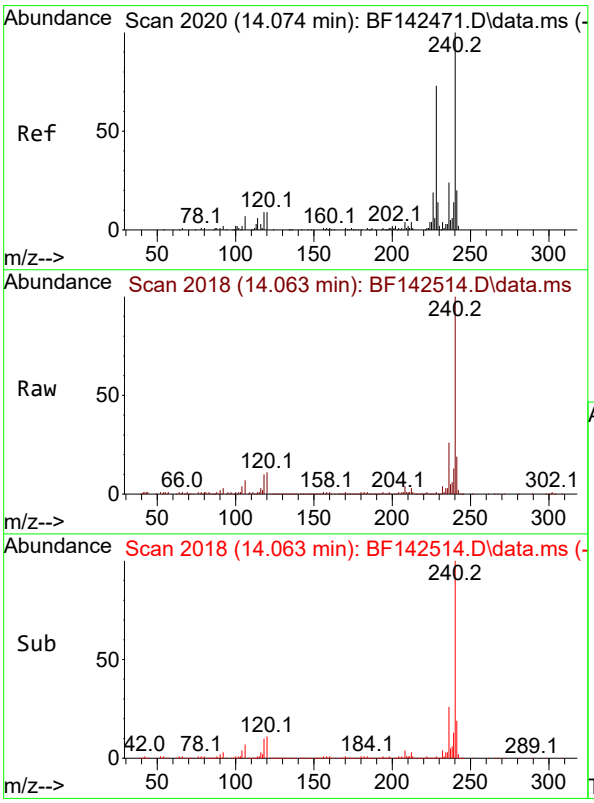
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:188 Resp: 331001

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.2	7.4	11.0

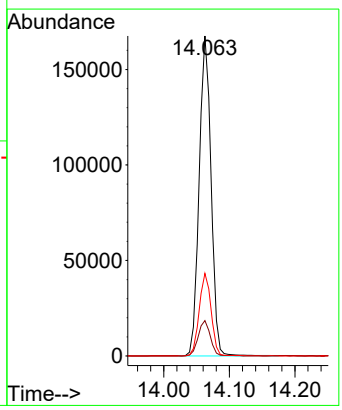


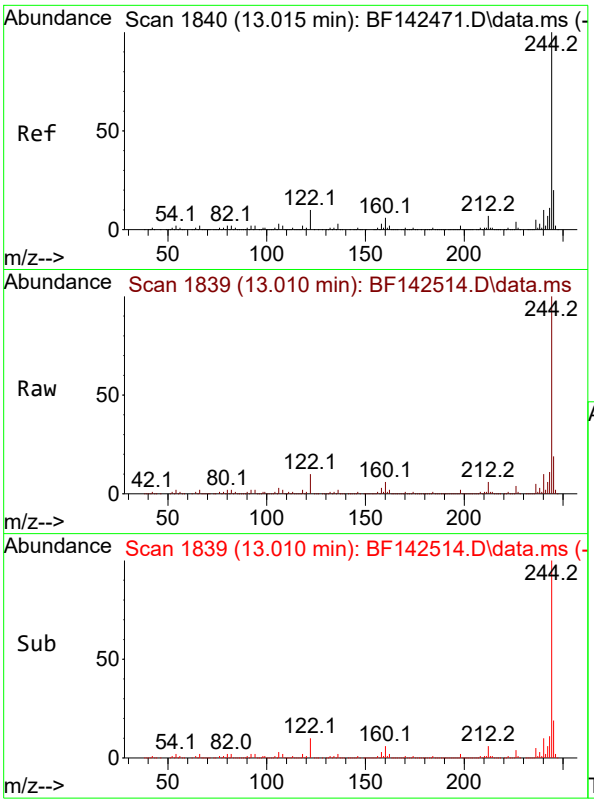


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:240 Resp: 212263

Ion	Ratio	Lower	Upper
240	100		
120	11.0	7.5	11.3
236	25.8	19.6	29.4



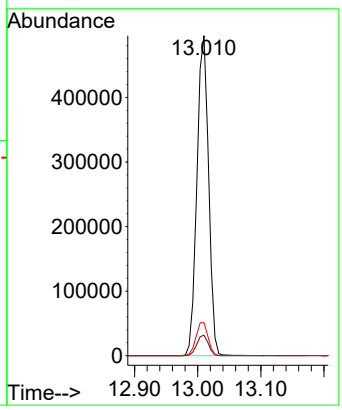


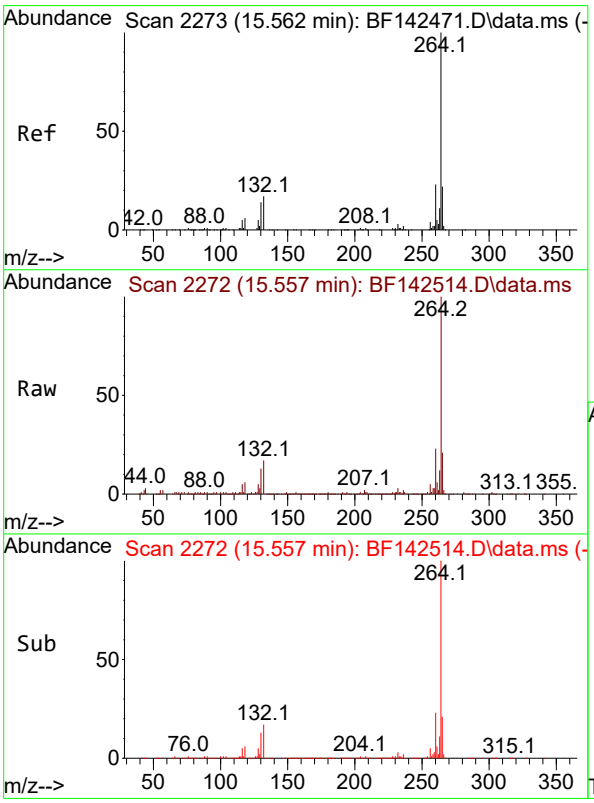
#79
Terphenyl-d14
Concen: 40.841 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:244 Resp: 634371

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.4	8.2	12.2

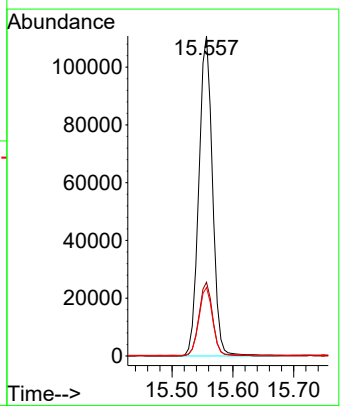




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:264 Resp: 172640

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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: BF142514.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	487	496	505	rBV	125847	184184	10.76%	1.306%
2	5.510	558	564	569	rBV	1222335	1589884	92.89%	11.271%
3	6.516	729	735	750	rVB	1249786	1676975	97.98%	11.888%
4	6.898	795	800	805	rBV	514627	625296	36.53%	4.433%
5	7.457	889	895	900	rBV	777014	983780	57.48%	6.974%
6	7.710	934	938	945	rVB	19172	23730	1.39%	0.168%
7	8.181	1012	1018	1023	rBV	635810	781917	45.68%	5.543%
8	9.251	1195	1200	1205	rBV	1352761	1711618	100.00%	12.134%
9	9.934	1311	1316	1326	rVB	652758	807665	47.19%	5.725%
10	10.645	1432	1437	1445	rBV	379487	474124	27.70%	3.361%
11	10.722	1445	1450	1460	rVB	882326	1107524	64.71%	7.851%
12	10.957	1485	1490	1497	rVB	73093	88008	5.14%	0.624%
13	11.422	1564	1569	1576	rBV	646400	798504	46.65%	5.661%
14	11.945	1653	1658	1670	rBV2	136904	216257	12.63%	1.533%
15	12.445	1738	1743	1750	rBV	22803	34589	2.02%	0.245%
16	12.639	1772	1776	1779	rBV	12924	19741	1.15%	0.140%
17	12.733	1787	1792	1800	rBV6	15815	34460	2.01%	0.244%
18	12.827	1804	1808	1811	rBV	16752	21754	1.27%	0.154%
19	12.869	1811	1815	1824	rVB2	12945	32519	1.90%	0.231%
20	13.010	1833	1839	1844	rBV	1290327	1673459	97.77%	11.863%
21	13.316	1888	1891	1894	rVB5	16328	19877	1.16%	0.141%
22	13.904	1986	1991	2000	rBV	63745	120598	7.05%	0.855%
23	14.063	2013	2018	2028	rVB	451126	600979	35.11%	4.260%
24	15.557	2266	2272	2283	rVB	292279	479022	27.99%	3.396%

Sum of corrected areas: 14106464

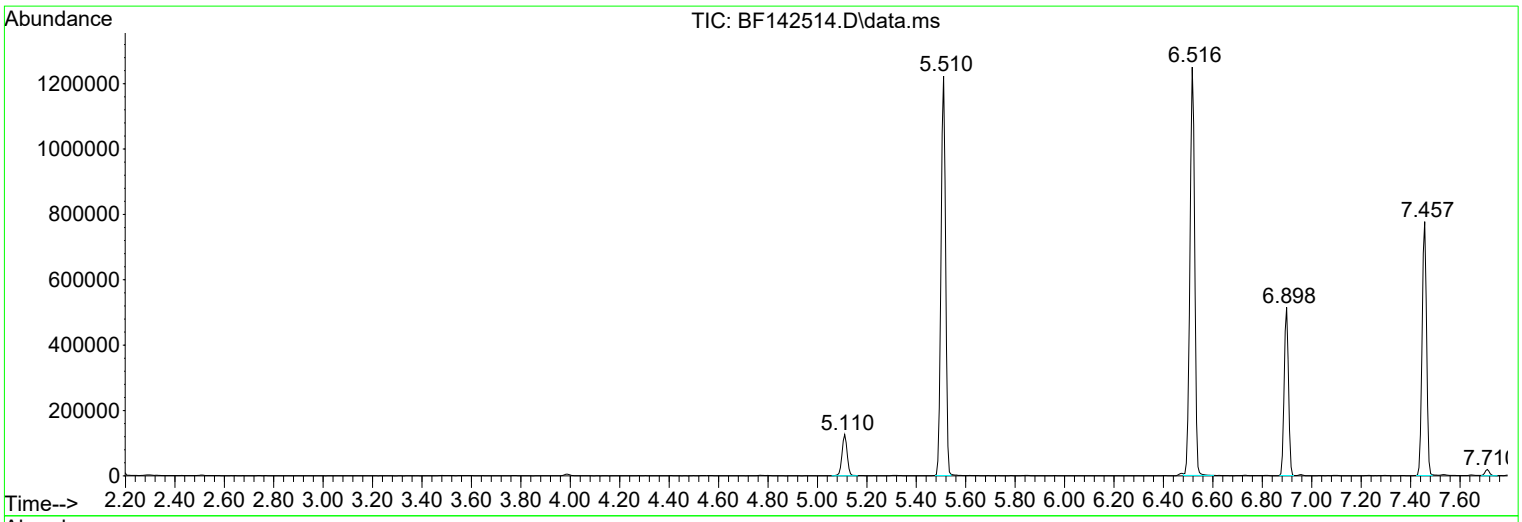
Sample Results: **BF142514.D**

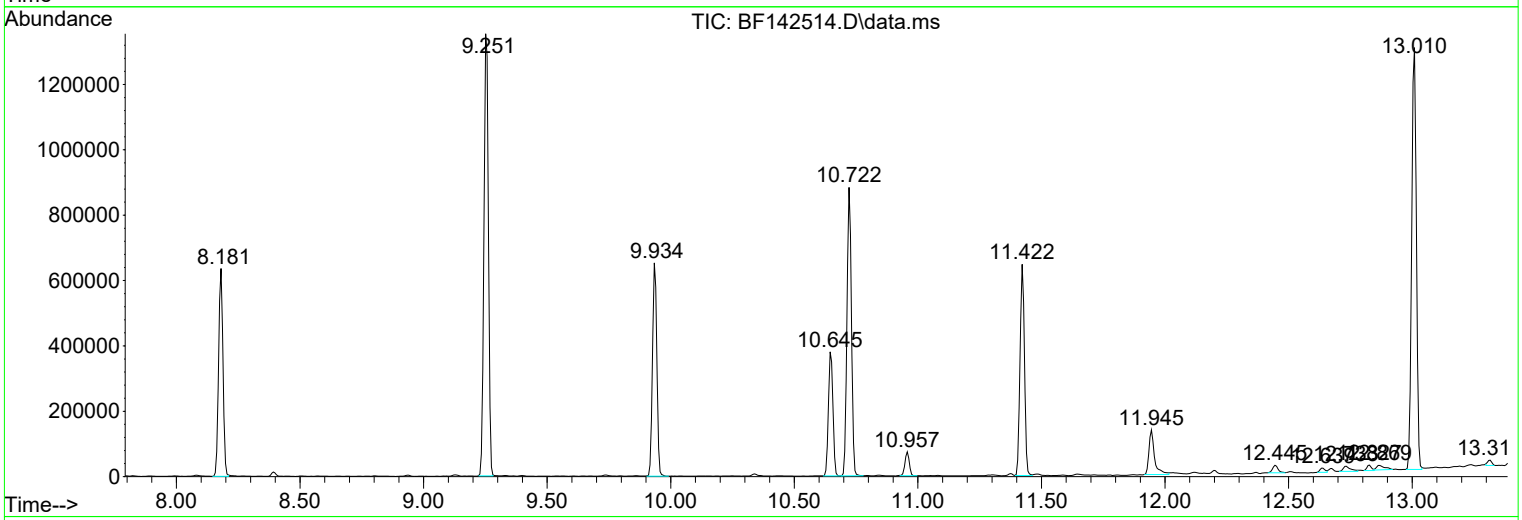
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

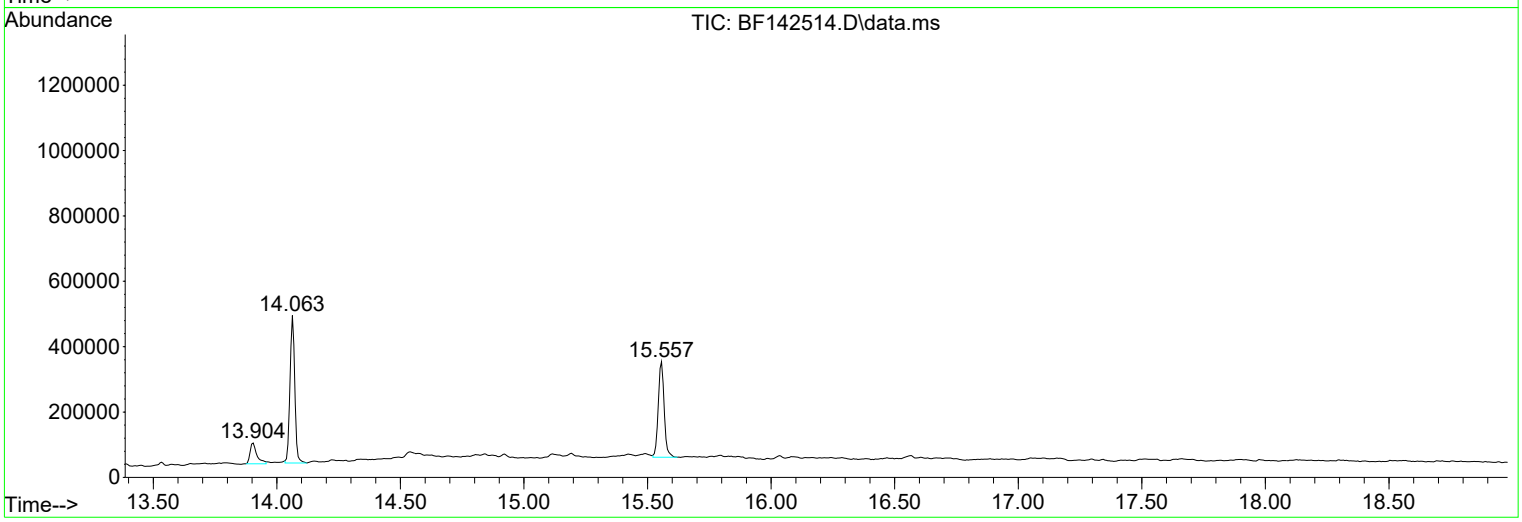
Instrument :
BNA_F
ClientSampleId :
TP-15

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\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

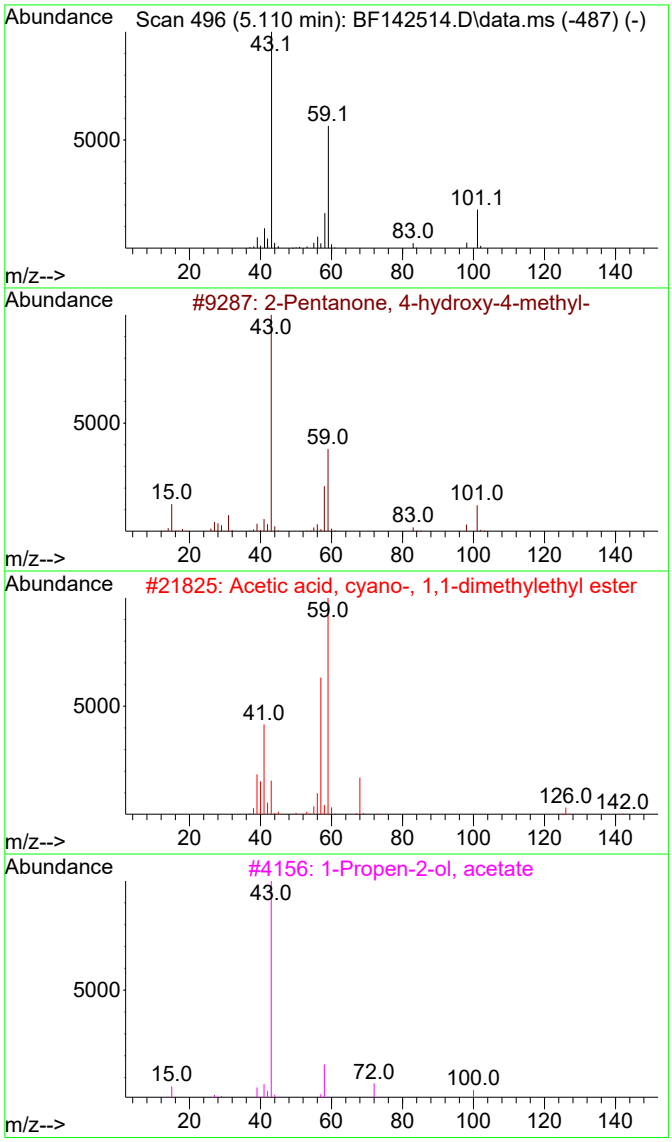
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

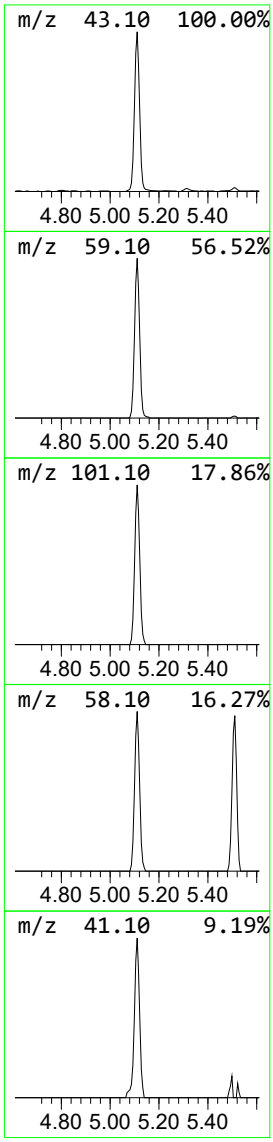
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.89 ng	184184	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	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\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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

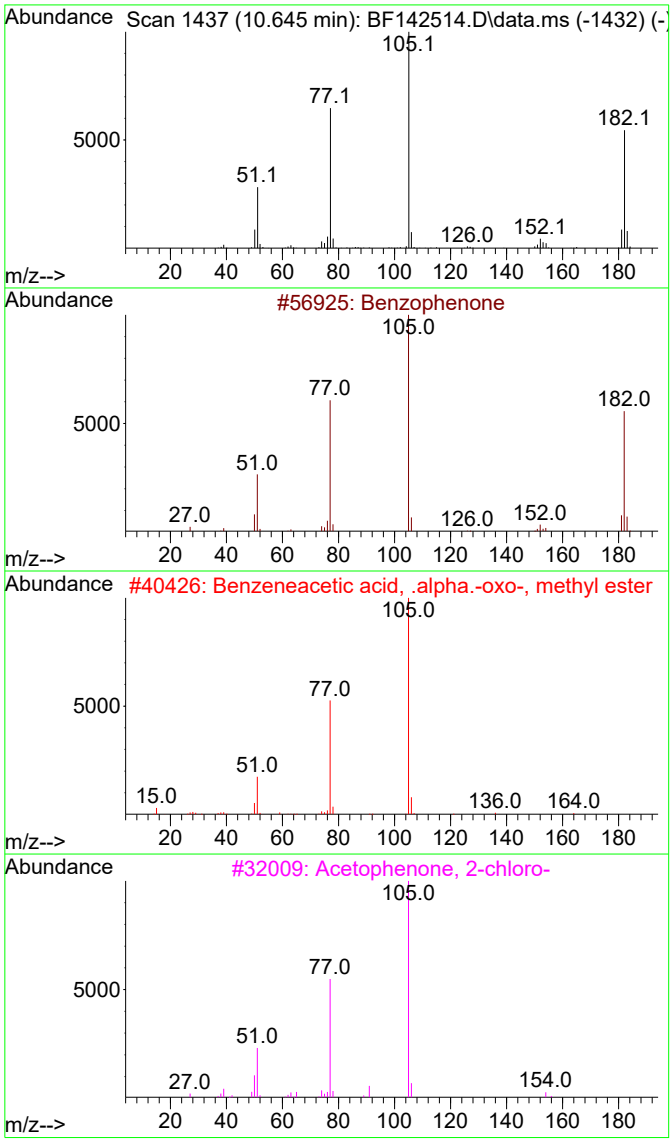
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

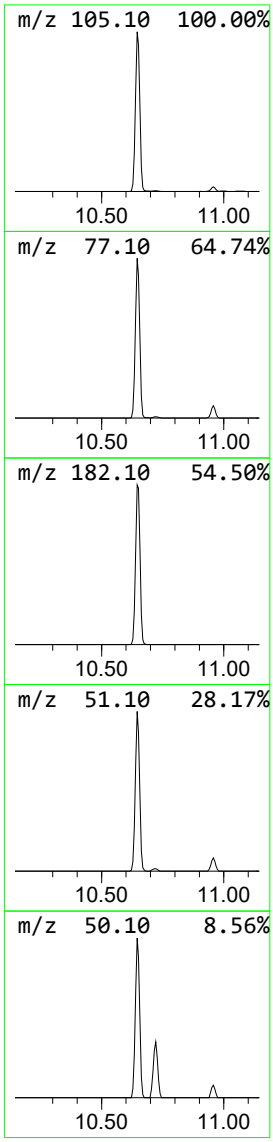
****

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	11.74 ng	474124	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	47
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

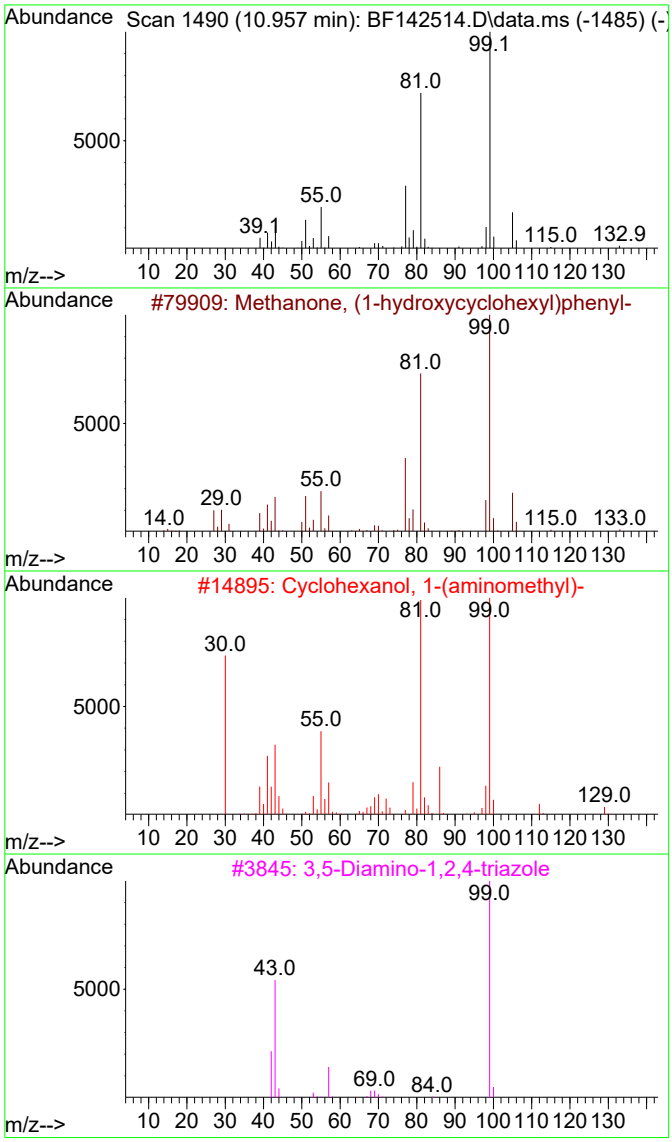
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

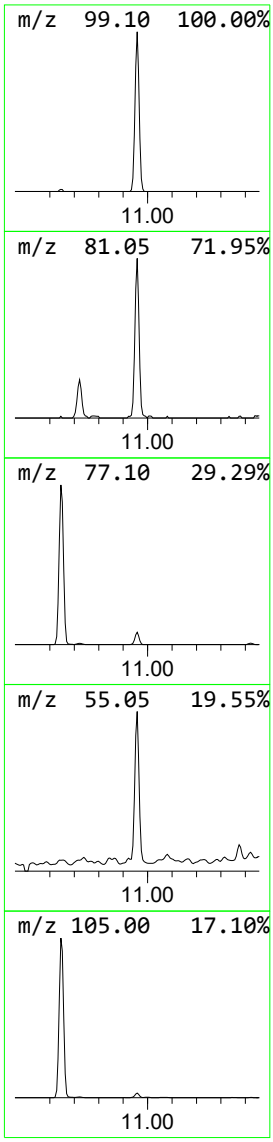
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Methanone, (1-hydroxycycloh... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.957	2.20 ng	88008	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	43
4	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38
5	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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

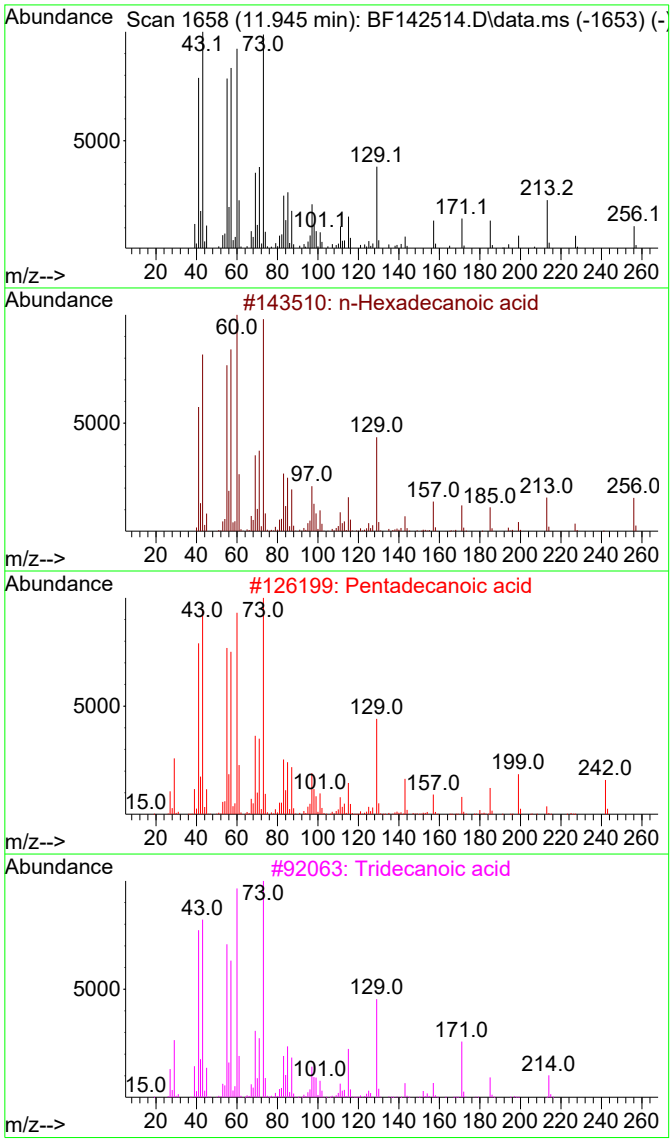
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

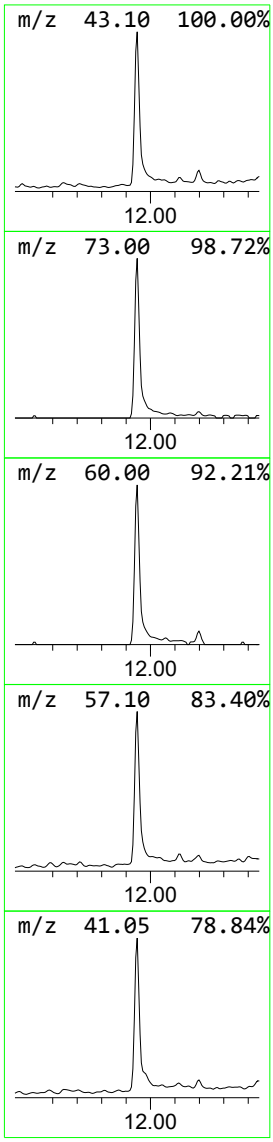
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.42 ng	216257	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	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Undecanoic acid	186	C11H22O2	000112-37-8	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

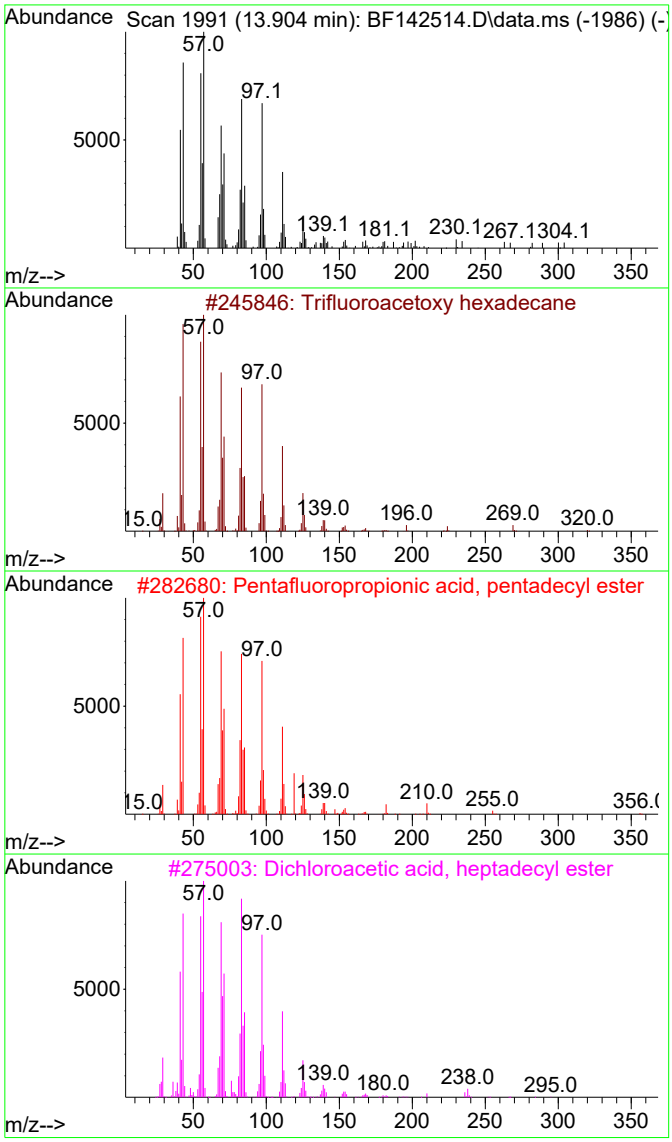
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

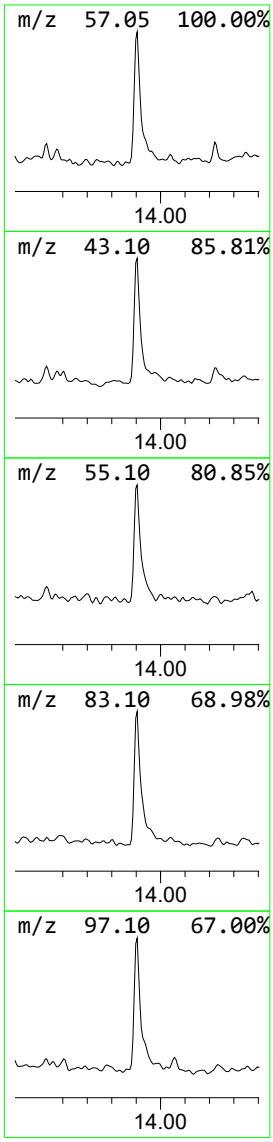
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.01 ng	120598	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	95
3	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	95
4	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	93
5	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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	184184	1	6.898	625296	20.0
Benzophenone	10.645	11.7	ng	474124	3	9.934	807665	20.0
Methanone, (1-h...	10.957	2.2	ng	88008	4	11.422	798504	20.0
n-Hexadecanoic ...	11.945	5.4	ng	216257	4	11.422	798504	20.0
Trifluoroacetox...	13.904	4.0	ng	120598	5	14.063	600979	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Time: May 21 13:16:09 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

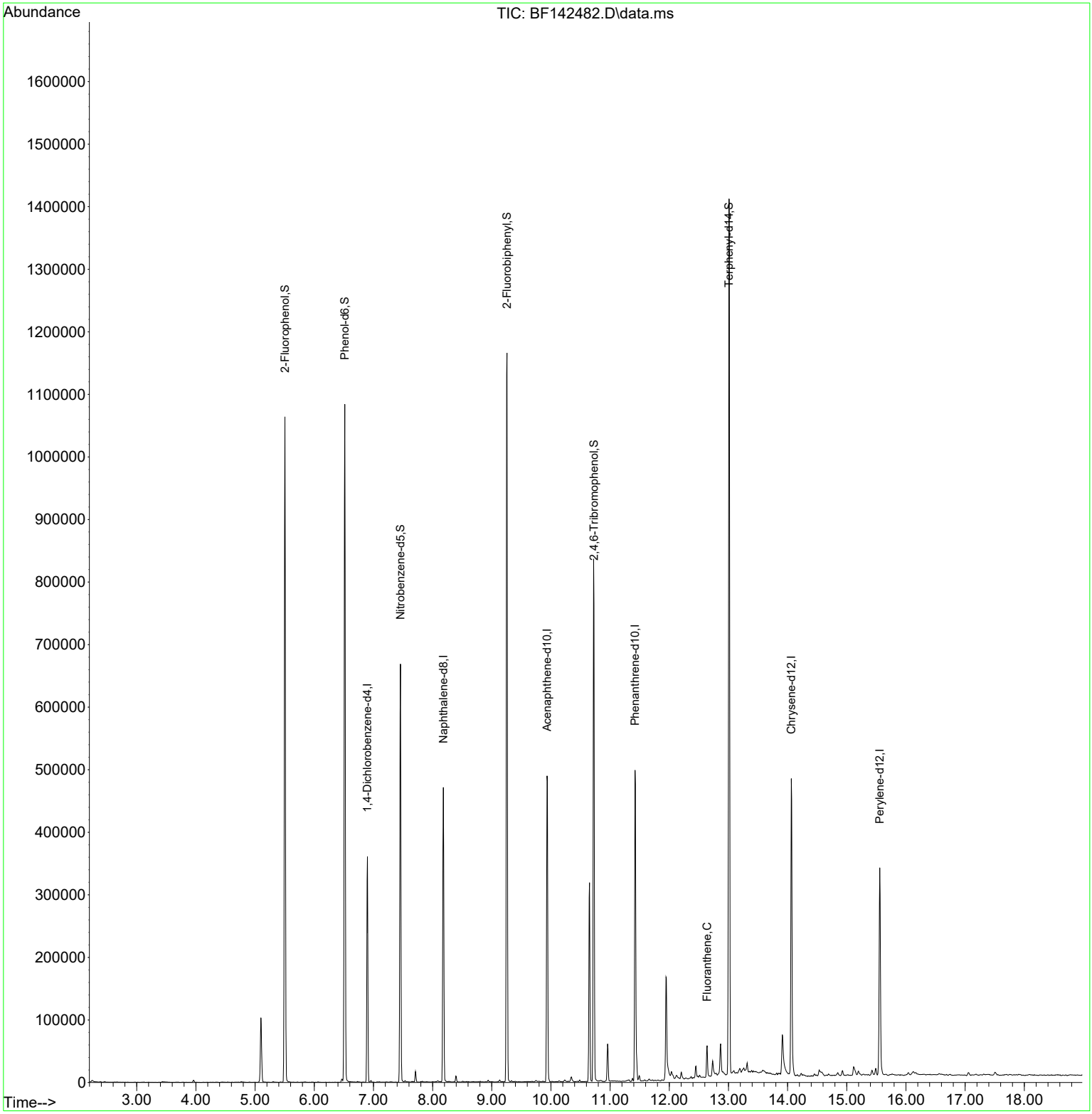
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	78241	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	292583	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	152289	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	263354	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	229725	20.000	ng	-0.01
86) Perylene-d12	15.557	264	197920	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	401727	86.503	ng	-0.01
7) Phenol-d6	6.516	99	490496	87.740	ng	-0.02
23) Nitrobenzene-d5	7.457	82	271981	50.689	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	144980	85.776	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	528742	46.589	ng	-0.01
79) Terphenyl-d14	13.010	244	673227	40.048	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.639	202	29099	2.213	ng	98

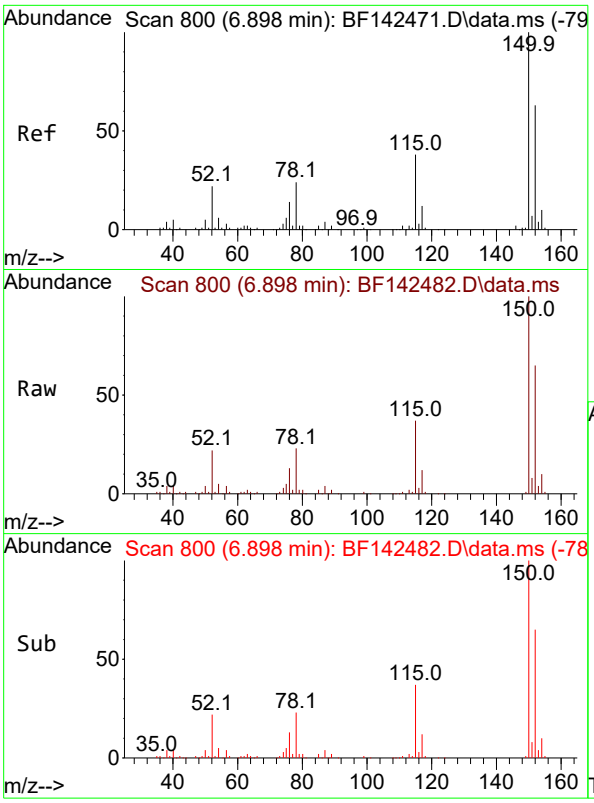
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Time: May 21 13:16:09 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



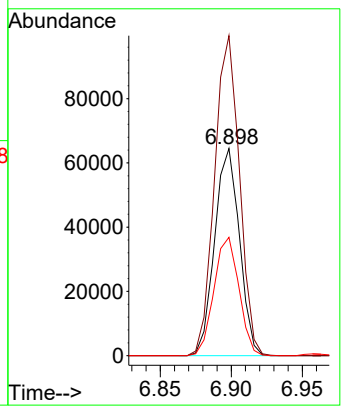


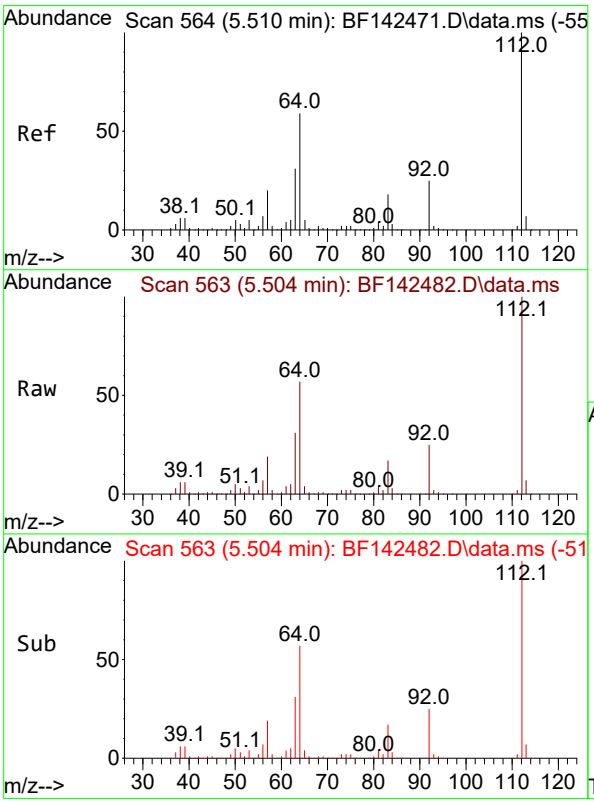
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:152 Resp: 78241

Ion	Ratio	Lower	Upper
152	100		
150	154.4	128.2	192.4
115	57.1	48.3	72.5

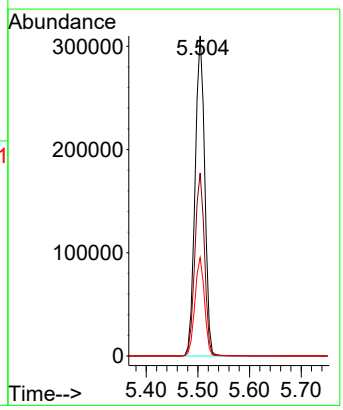


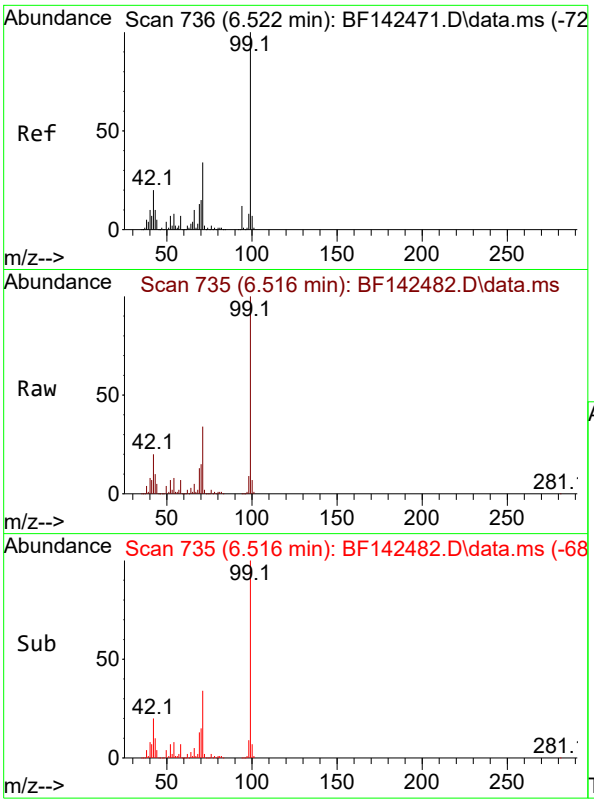


#5
2-Fluorophenol
Concen: 86.503 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:112 Resp: 401727

Ion	Ratio	Lower	Upper
112	100		
64	57.1	47.5	71.3
63	30.7	24.9	37.3



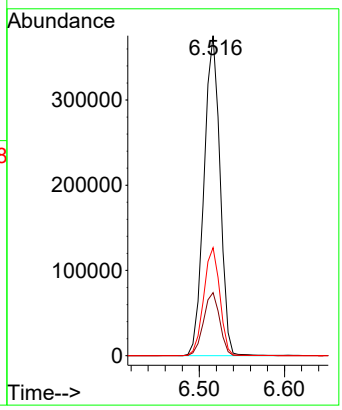


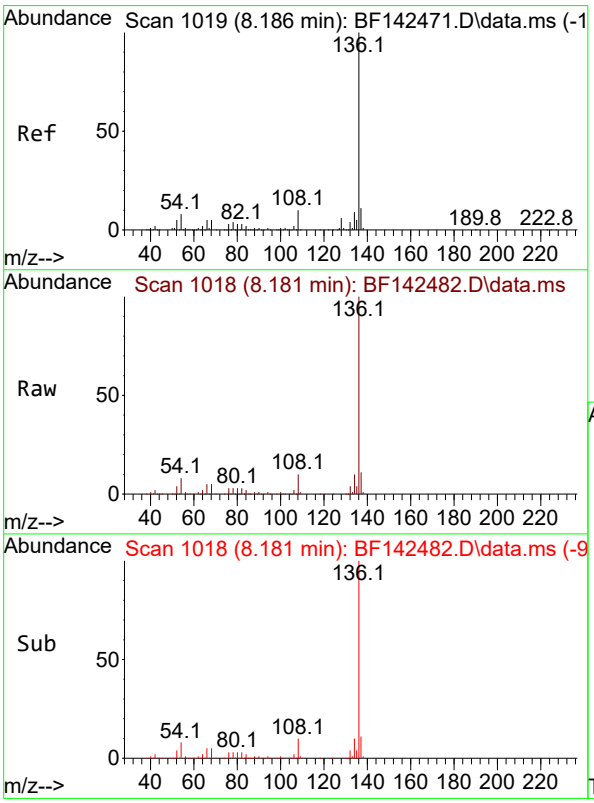
#7
Phenol-d6
Concen: 87.740 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion: 99 Resp: 490496

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.2	24.2
71	33.8	27.3	40.9

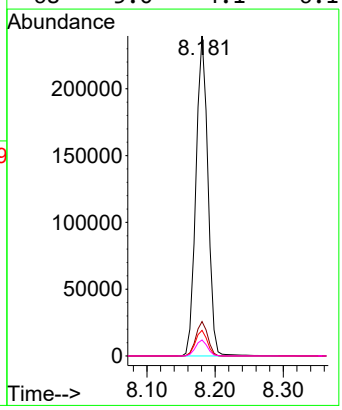


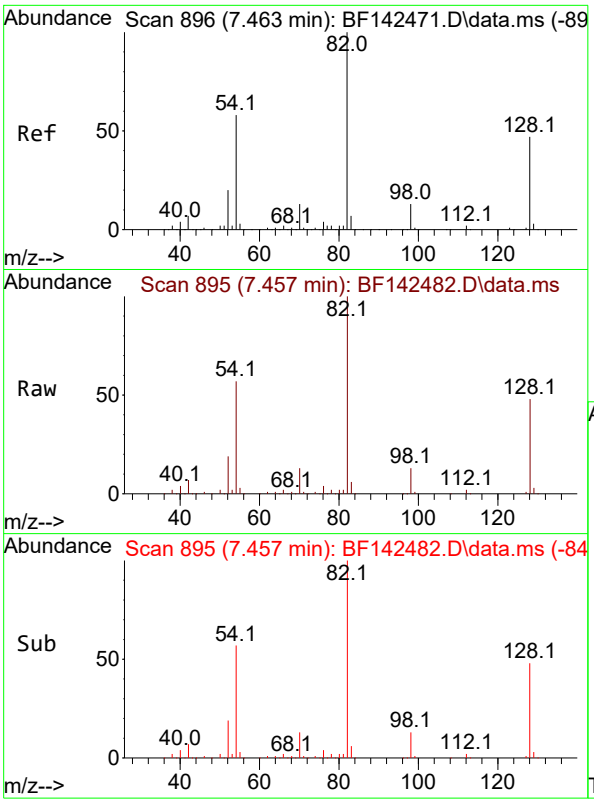


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:136 Resp: 292583

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.0	6.6	10.0
68	5.0	4.1	6.1



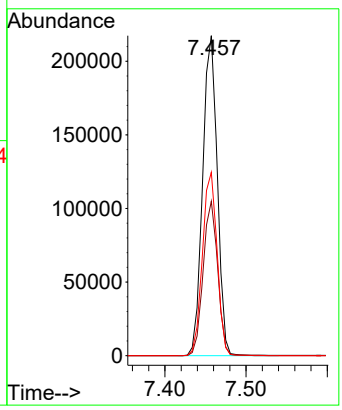


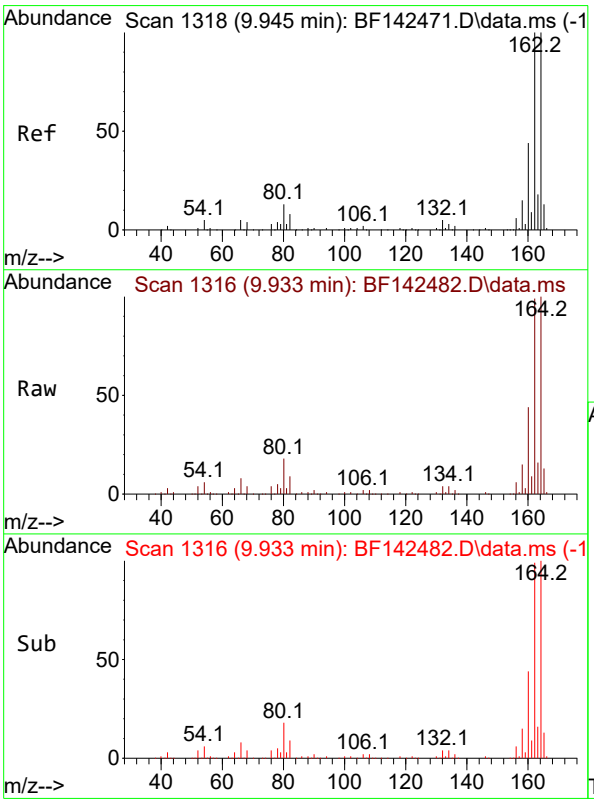
#23
Nitrobenzene-d5
Concen: 50.689 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion: 82 Resp: 271981

Ion	Ratio	Lower	Upper
82	100		
128	48.3	37.4	56.2
54	57.3	46.6	70.0

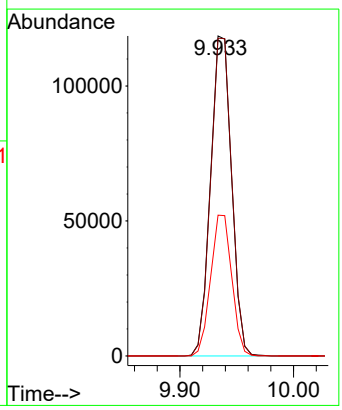


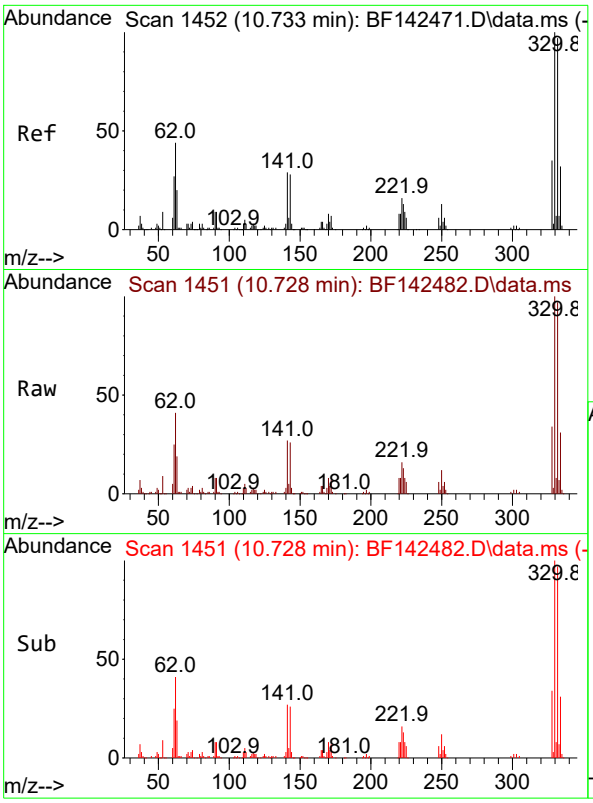


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:164 Resp: 152289

Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.2	120.4
160	44.0	35.6	53.4



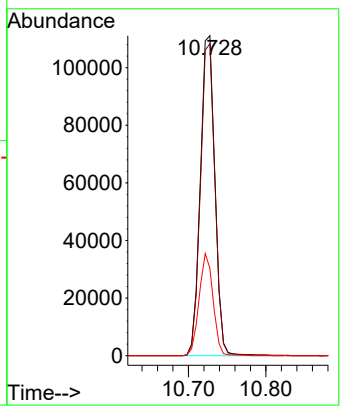


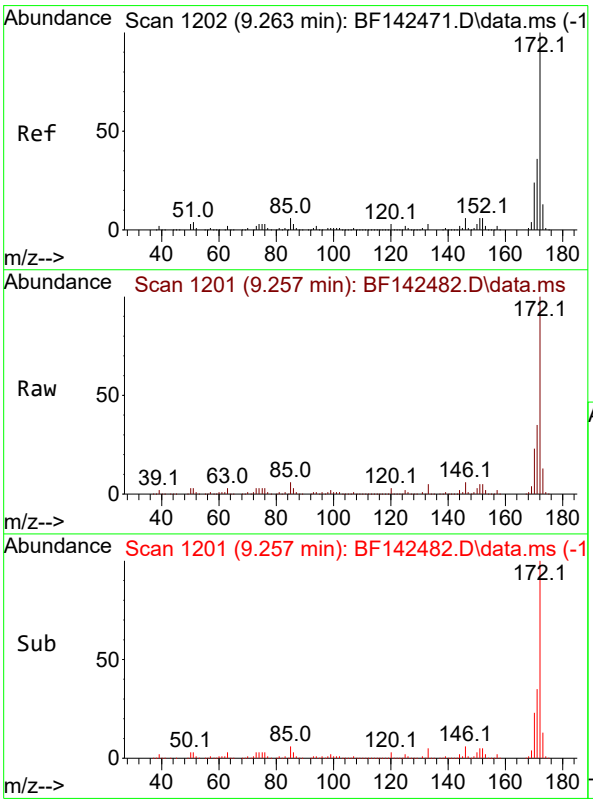
#42
2,4,6-Tribromophenol
Concen: 85.776 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:330 Resp: 144980

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	30.6	24.6	36.8

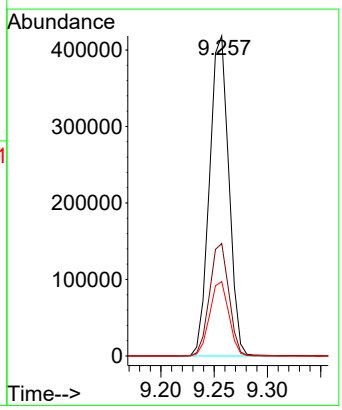


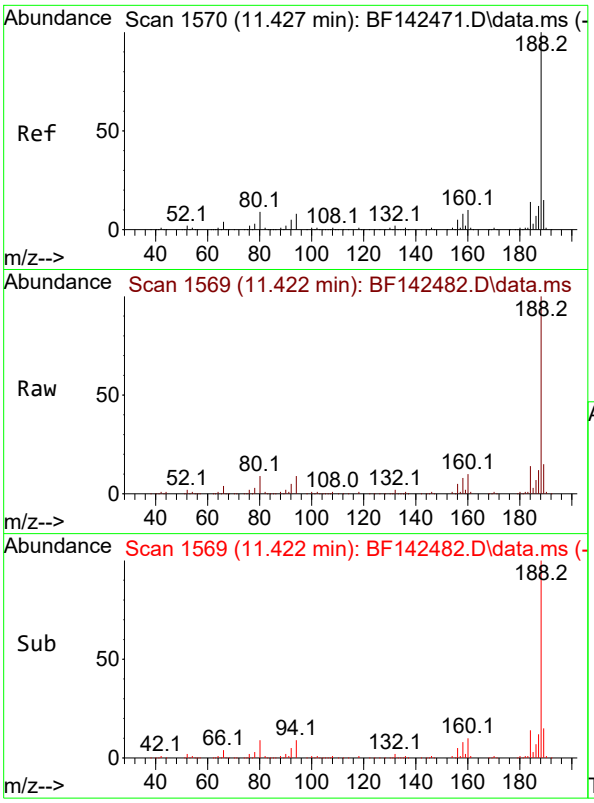


#45
2-Fluorobiphenyl
Concen: 46.589 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:172 Resp: 528742

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	23.2	18.9	28.3



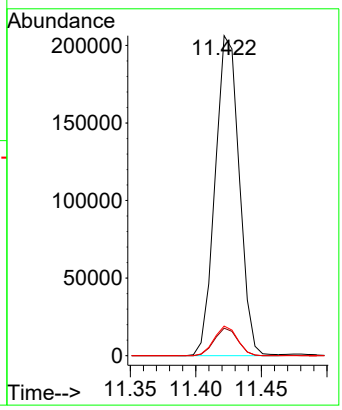


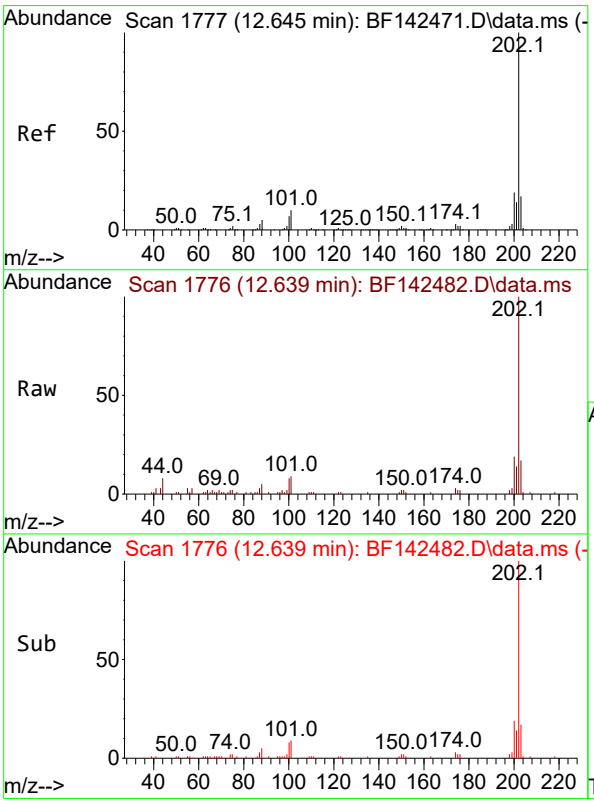
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:188 Resp: 263354

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.3	7.4	11.0

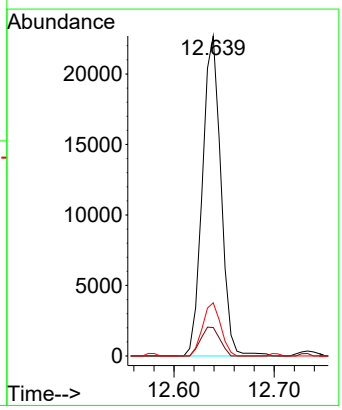


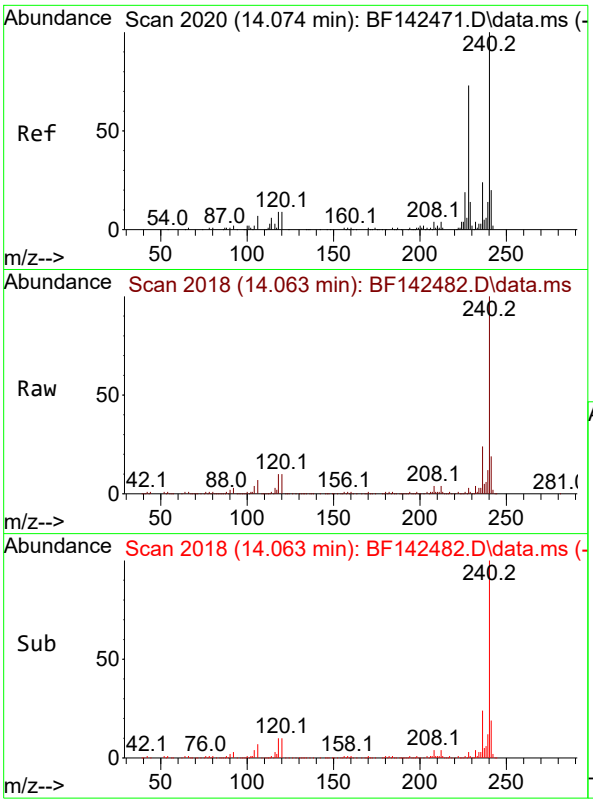


#75
Fluoranthene
Concen: 2.213 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:202 Resp: 29099

Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	29.6
203	16.6	0.0	37.2



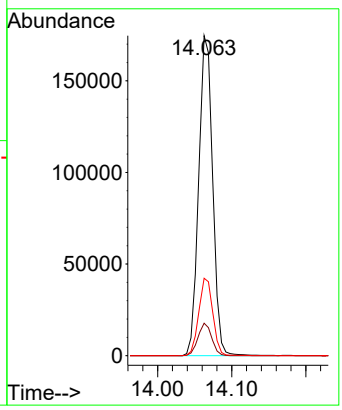


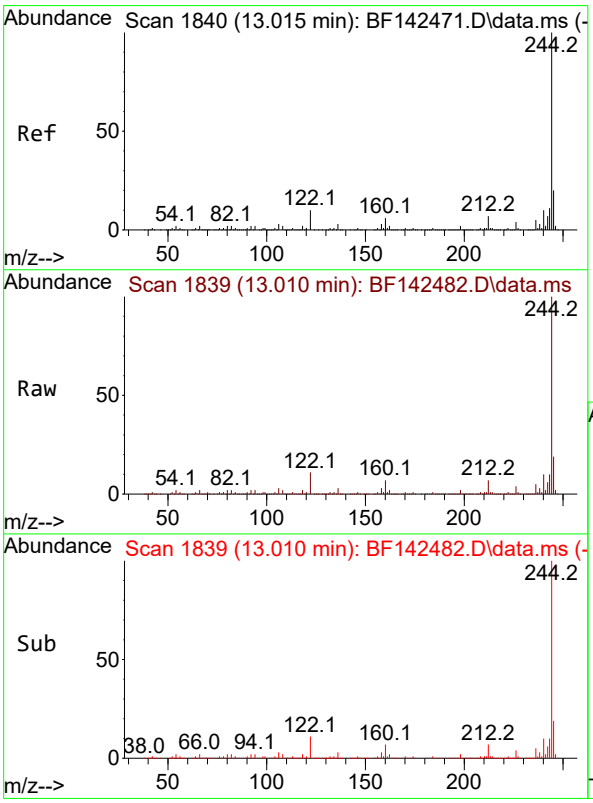
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:240 Resp: 229725

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	24.2	19.6	29.4

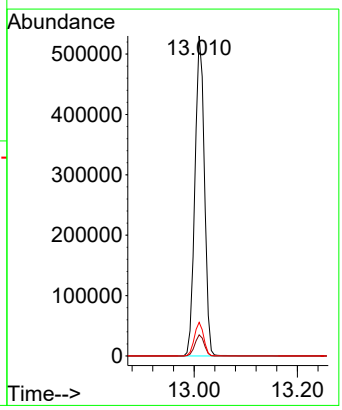


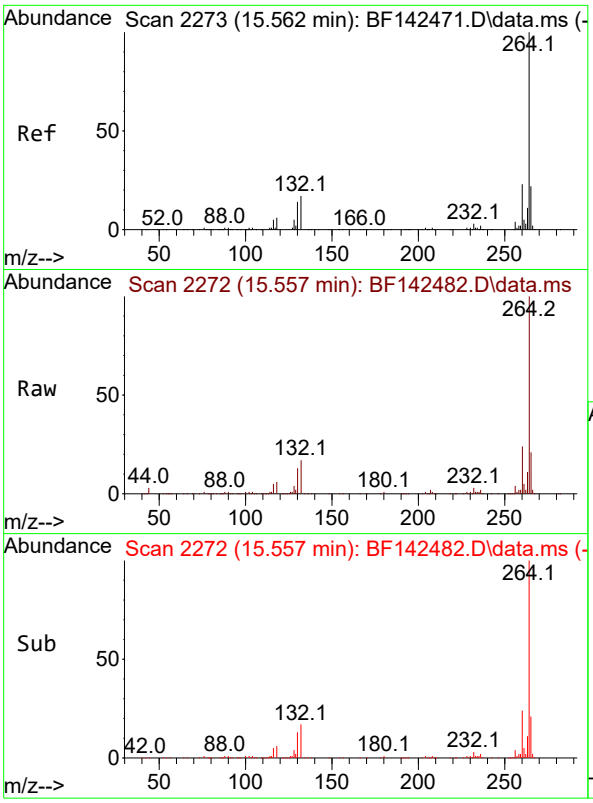


#79
Terphenyl-d14
Concen: 40.048 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:244 Resp: 673227

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.5	8.2	12.2



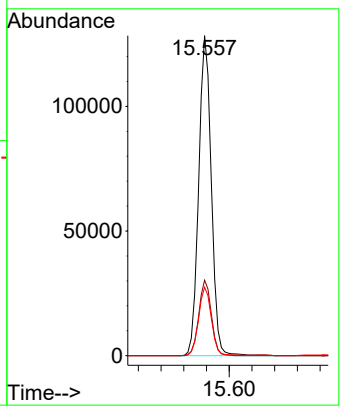


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:264 Resp: 197920

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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: BF142482.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.099	483	494	502	rBV	103162	150758	8.54%	1.180%
2	5.504	557	563	568	rBV	1063806	1374120	77.85%	10.757%
3	6.516	729	735	740	rBV	1081324	1421529	80.53%	11.128%
4	6.898	795	800	805	rBV	360762	439349	24.89%	3.439%
5	7.457	889	895	900	rBV	668365	831482	47.10%	6.509%
6	7.710	934	938	944	rVB	16763	20140	1.14%	0.158%
7	8.181	1013	1018	1023	rBV	470756	568855	32.23%	4.453%
8	9.257	1195	1201	1206	rBV	1164914	1482217	83.97%	11.603%
9	9.933	1311	1316	1324	rBV	488928	628084	35.58%	4.917%
10	10.651	1432	1438	1443	rBV	317894	393861	22.31%	3.083%
11	10.722	1445	1450	1456	rBV	834896	1059814	60.04%	8.296%
12	10.957	1481	1490	1495	rBV	60159	76250	4.32%	0.597%
13	11.422	1564	1569	1577	rBV	496689	670577	37.99%	5.249%
14	11.945	1651	1658	1670	rBV3	165041	279252	15.82%	2.186%
15	12.033	1670	1673	1682	rVB4	11107	25412	1.44%	0.199%
16	12.451	1739	1744	1747	rBV	18815	25683	1.45%	0.201%
17	12.639	1771	1776	1782	rBV	50441	67011	3.80%	0.525%
18	12.733	1787	1792	1799	rBV	24007	42367	2.40%	0.332%
19	12.869	1810	1815	1820	rBV	46640	64032	3.63%	0.501%
20	13.010	1834	1839	1844	rBV	1398903	1765191	100.00%	13.818%
21	13.316	1888	1891	1896	rVB4	14598	17725	1.00%	0.139%
22	13.910	1987	1992	2010	rBV	63396	146951	8.32%	1.150%
23	14.063	2013	2018	2029	rVB	474627	658371	37.30%	5.154%
24	14.533	2094	2098	2104	rBV6	8798	20257	1.15%	0.159%
25	15.116	2193	2197	2207	rBV	13275	29870	1.69%	0.234%
26	15.557	2266	2272	2286	rVB	331033	515210	29.19%	4.033%

Sum of corrected areas: 12774368

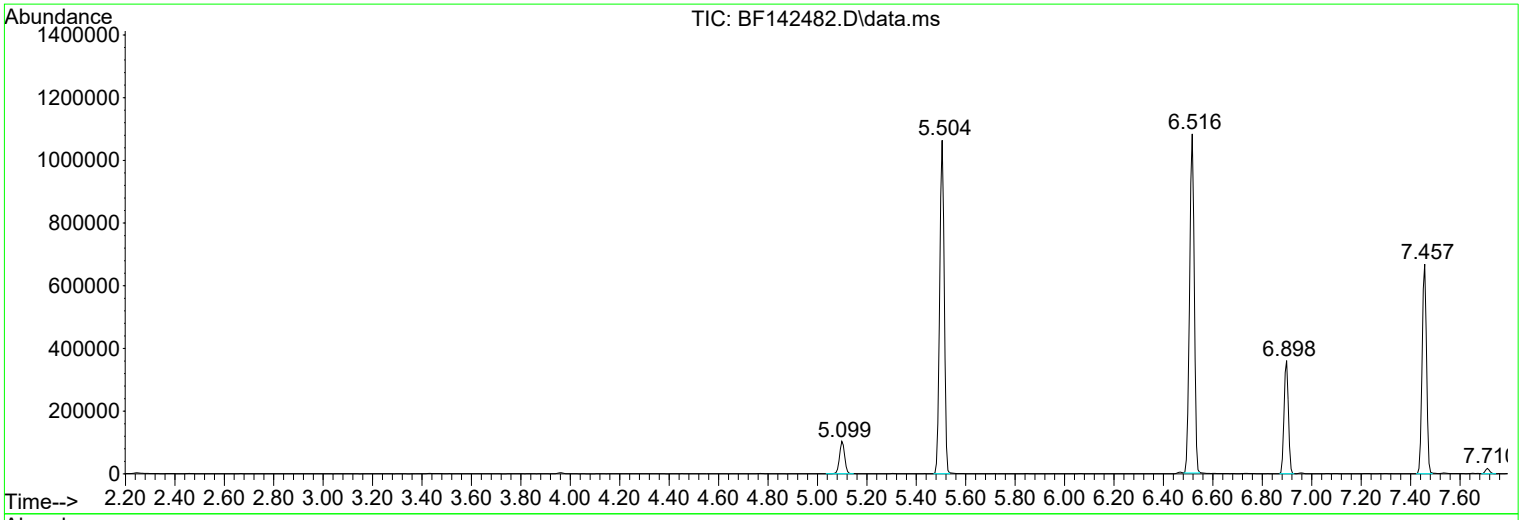
Sample Results: **BF142482.D**

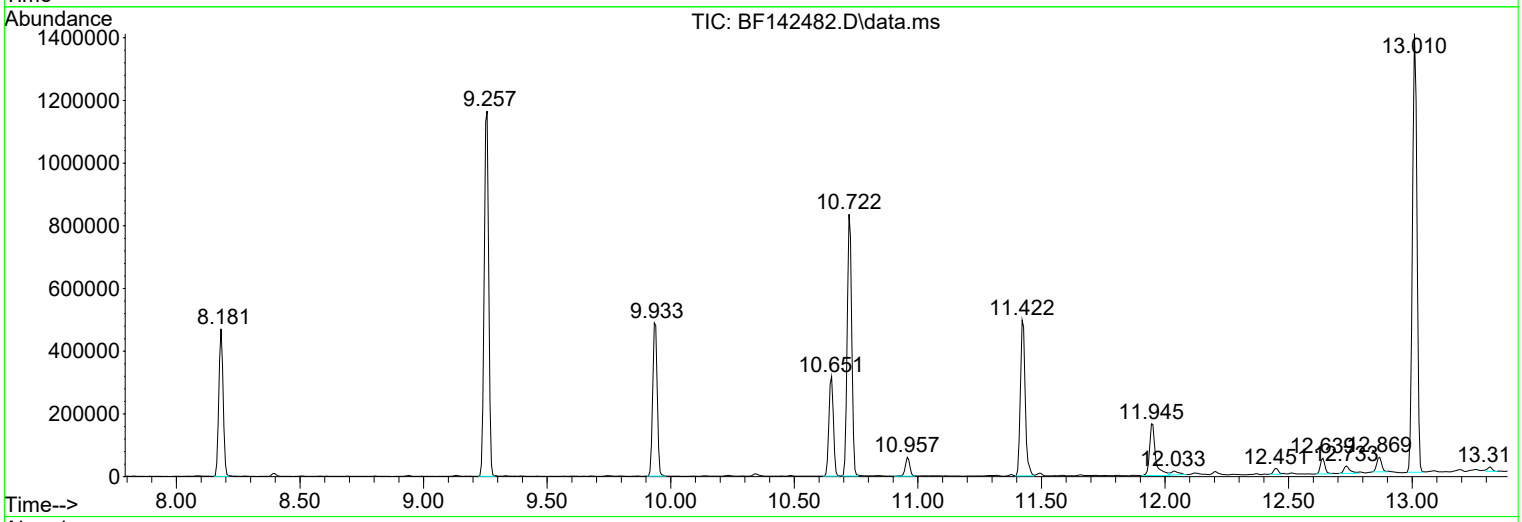
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

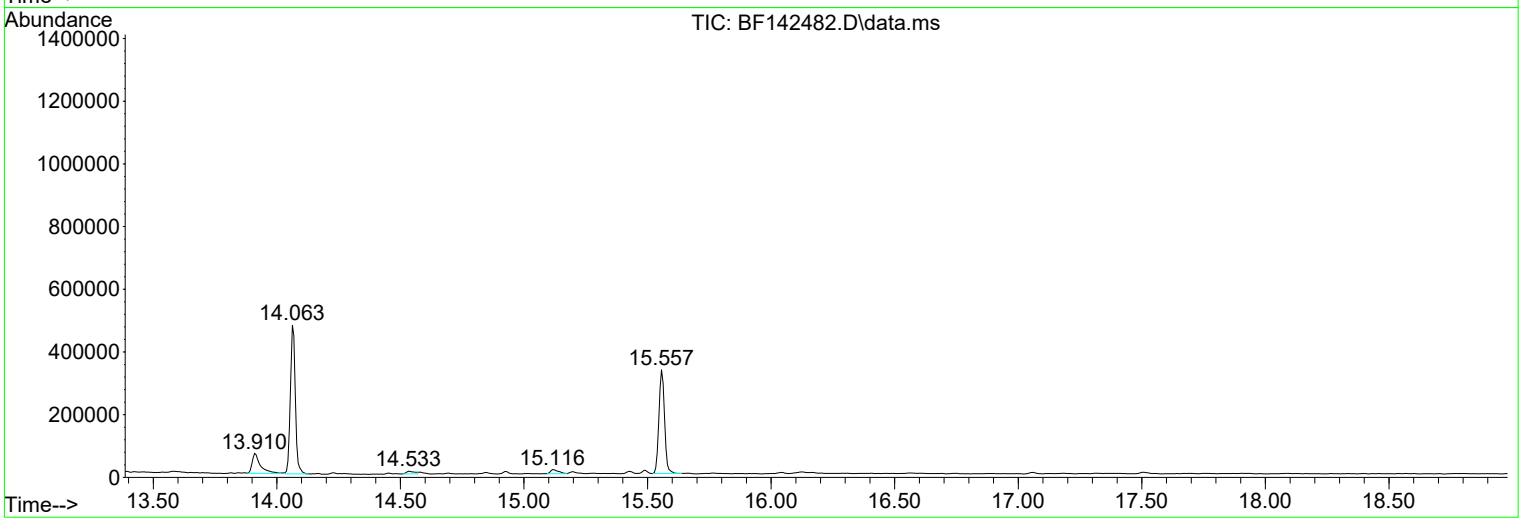
Instrument :
BNA_F
ClientSampleId :
TP-20

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\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

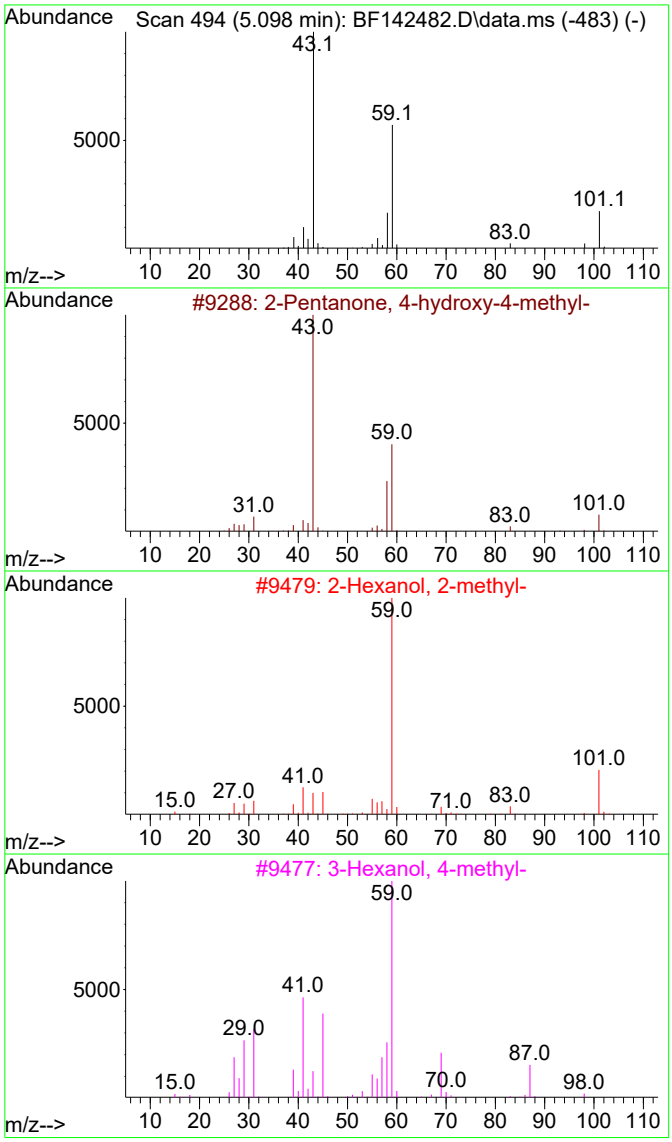
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

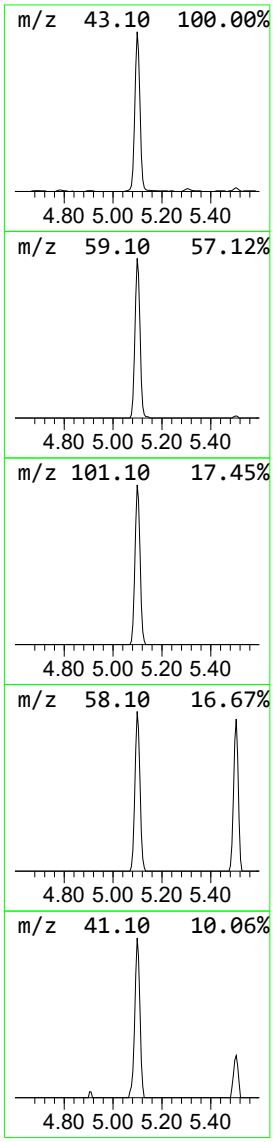
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.098	6.86 ng	150758	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	45
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	40
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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

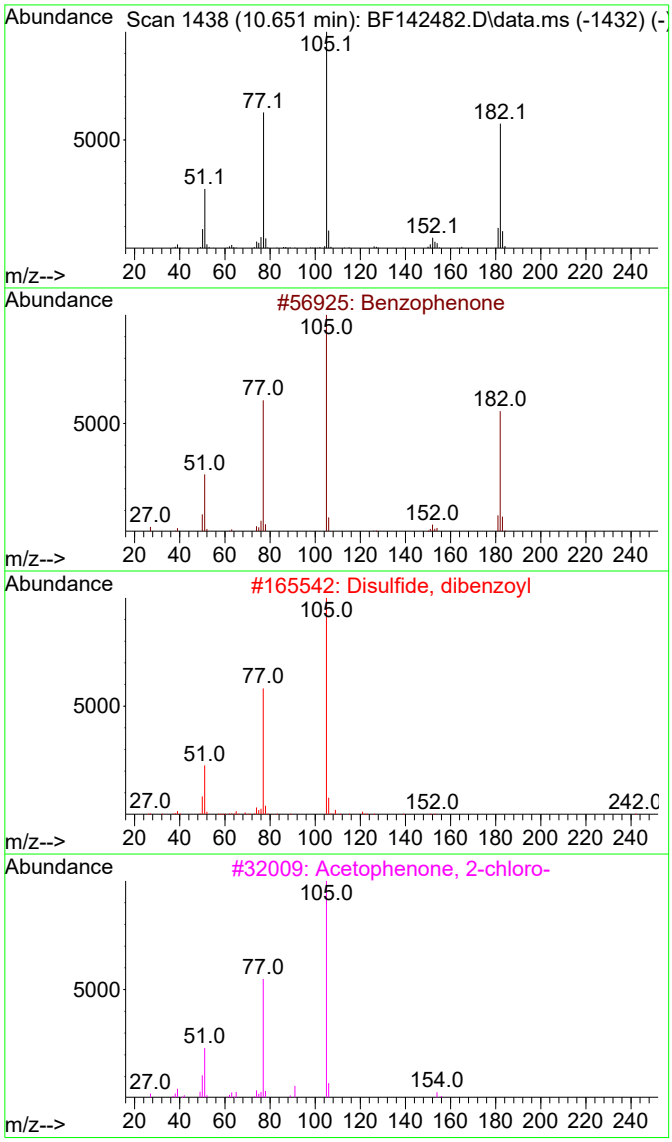
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

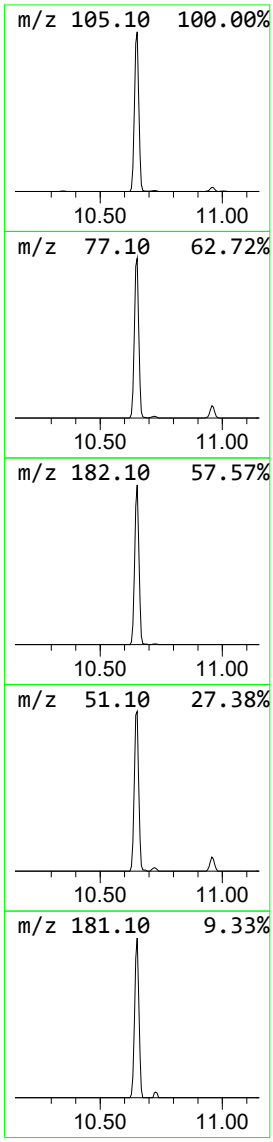
****

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	12.54 ng	393861	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	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47





Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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

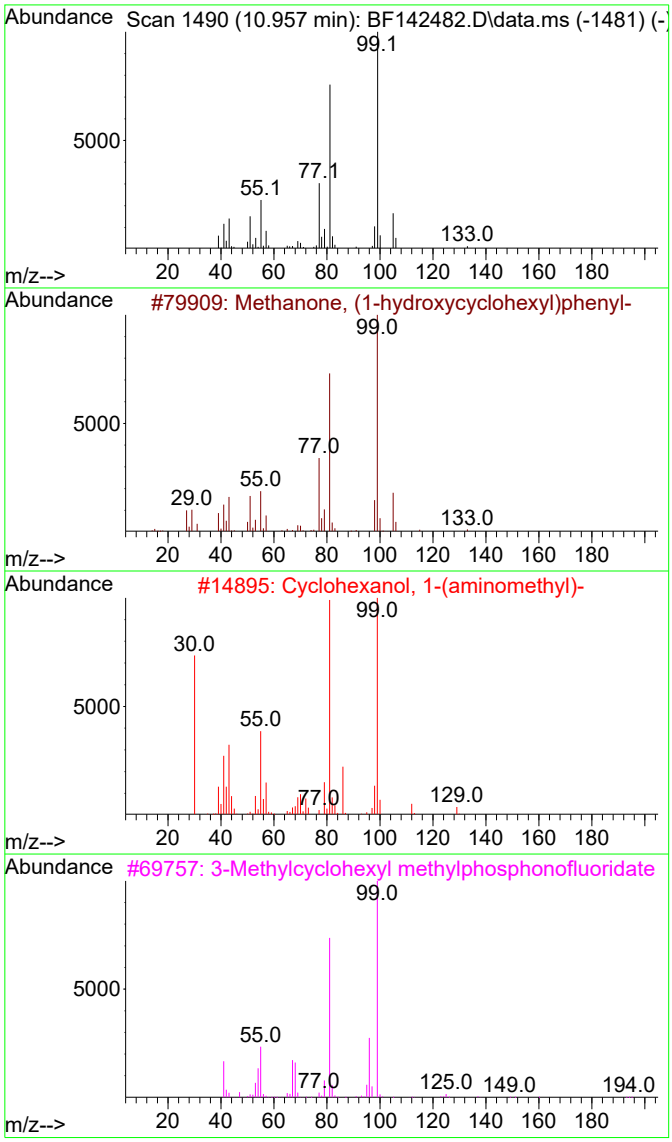
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

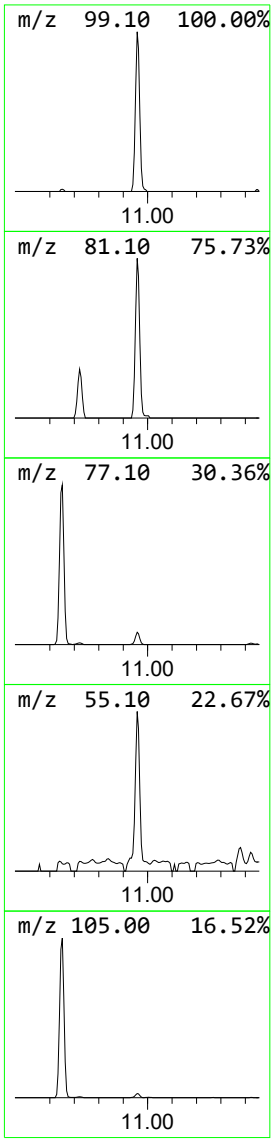
****

Peak Number 3 Methanone, (1-hydroxycycloh... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.957	2.27 ng	76250	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	45
4	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
5	2-Methylcyclosarin	194	C8H16FO2P	085473-32-1	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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

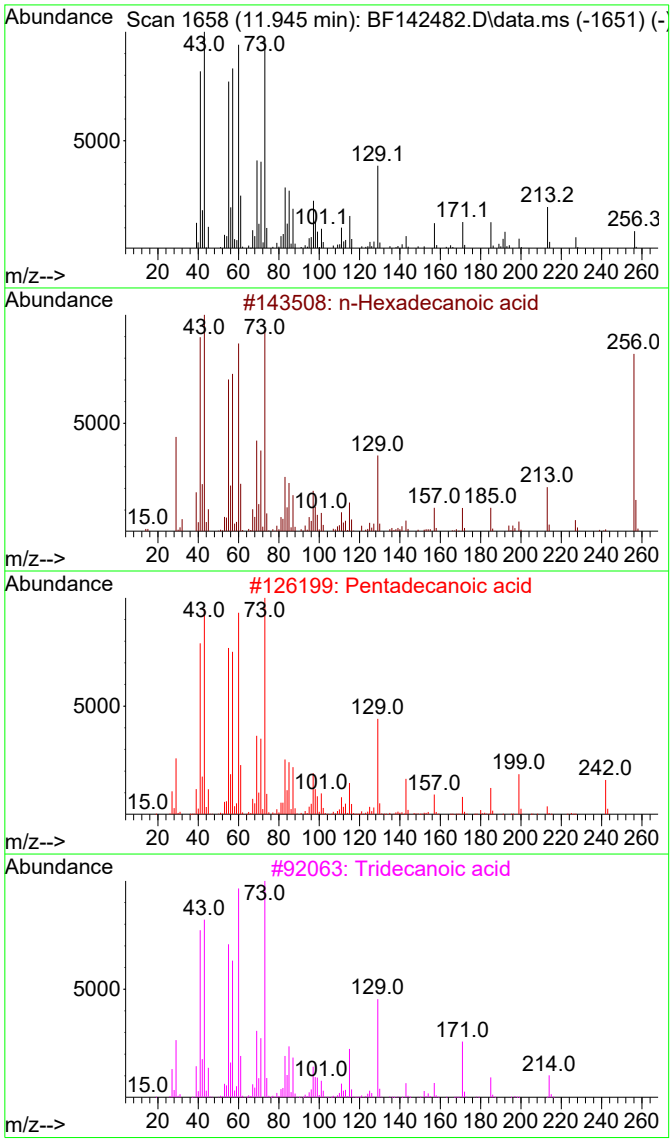
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

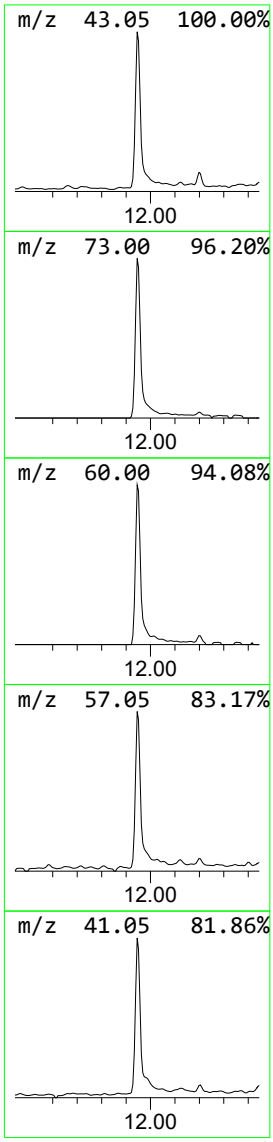
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.33 ng	279252	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	70
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	Undecanoic acid	186	C11H22O2	000112-37-8	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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

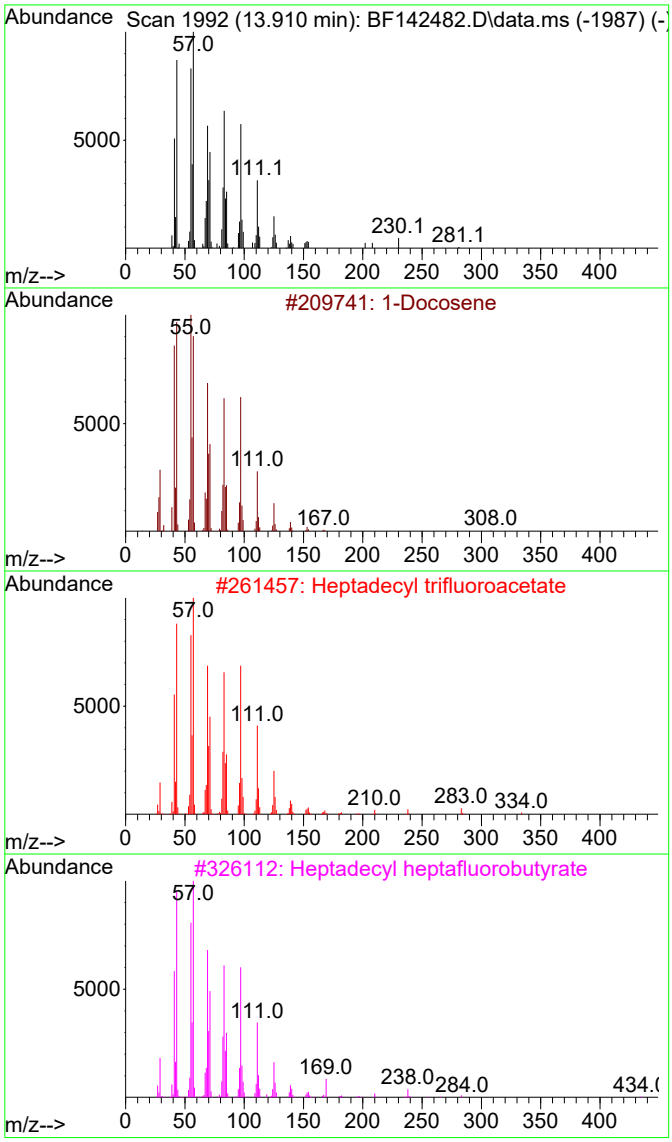
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

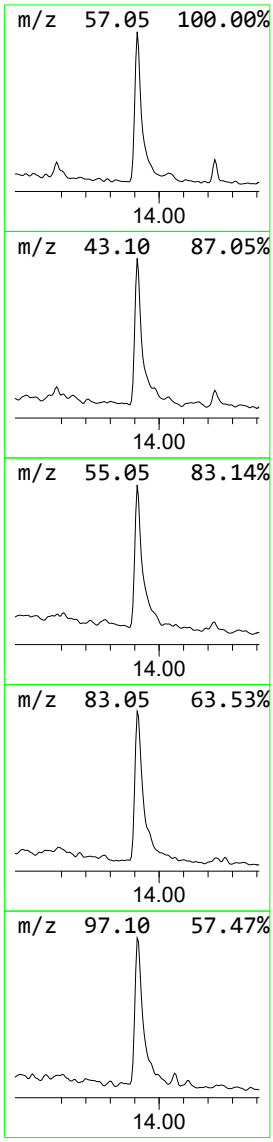
****

Peak Number 5 1-Docosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	4.46 ng	146951	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	94
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93
4	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	93
5	1-Heneicosanol	312	C21H44O	015594-90-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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-...	5.098	6.9	ng	150758	1	6.898	439349	20.0
Benzophenone	10.651	12.5	ng	393861	3	9.933	628084	20.0
Methanone, (1-h...	10.957	2.3	ng	76250	4	11.422	670577	20.0
n-Hexadecanoic ...	11.945	8.3	ng	279252	4	11.422	670577	20.0
1-Docosene	13.910	4.5	ng	146951	5	14.063	658371	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Time: May 22 13:04:55 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

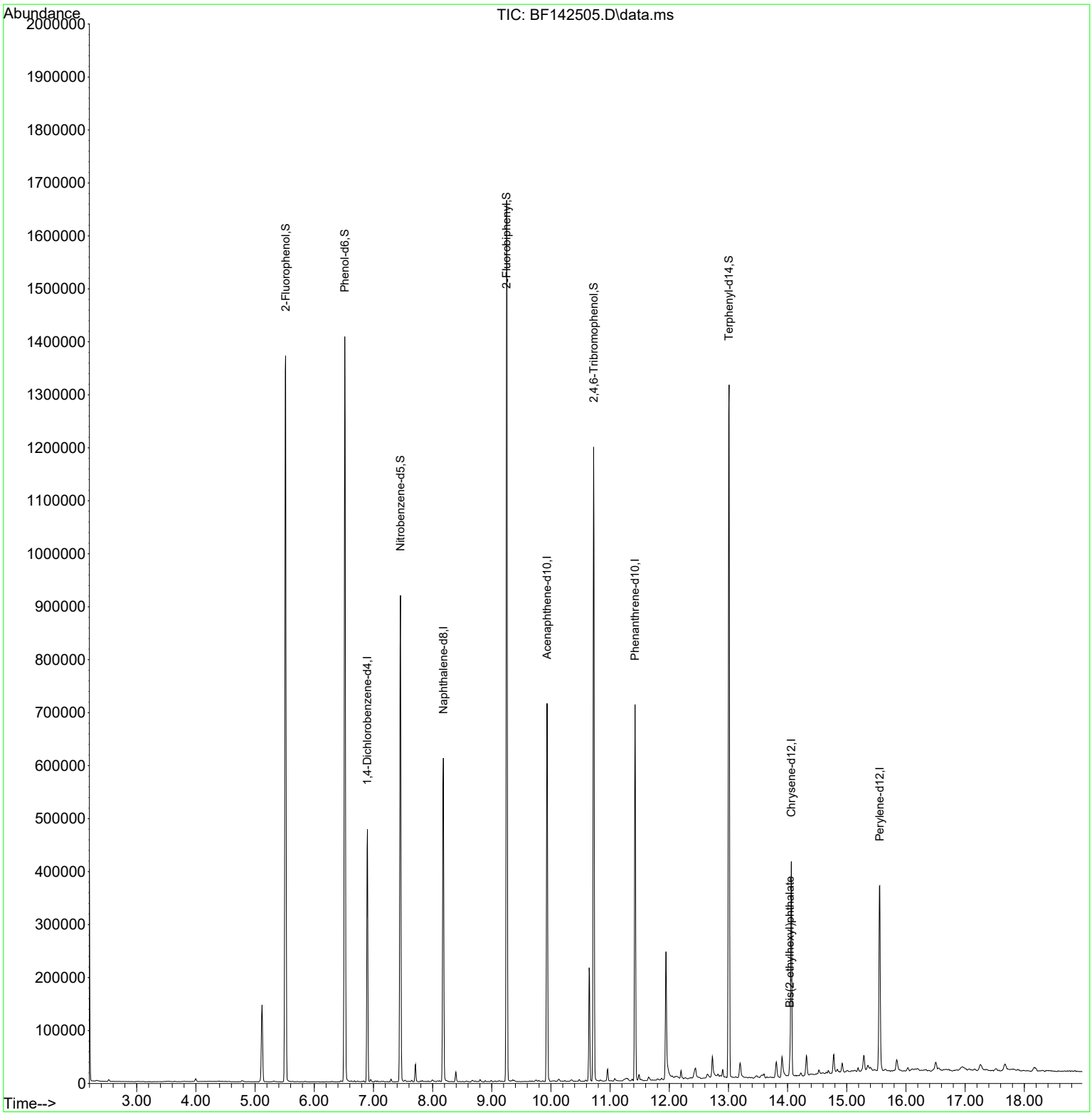
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105231	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	393023	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	211306	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	363178	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	195335	20.000	ng	-0.01
86) Perylene-d12	15.557	264	215007	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	541642	86.717	ng	0.00
7) Phenol-d6	6.516	99	659959	87.775	ng	-0.02
23) Nitrobenzene-d5	7.457	82	390239	54.143	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	211748	90.289	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	746030	47.375	ng	-0.02
79) Terphenyl-d14	13.010	244	640217	44.789	ng	0.00
Target Compounds						Qvalue
84) Bis(2-ethylhexyl)phtha...	14.039	149	15913	2.469	ng	99

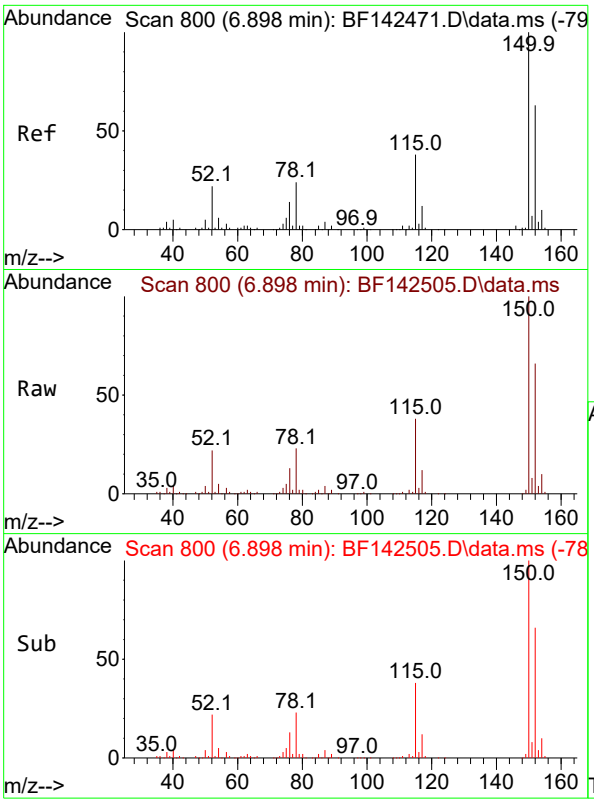
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Time: May 22 13:04:55 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



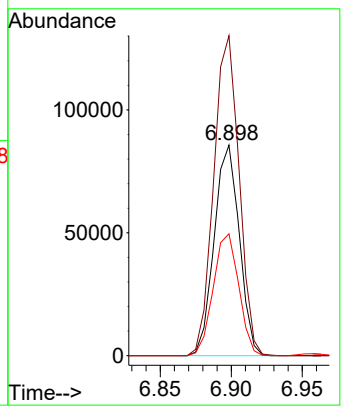


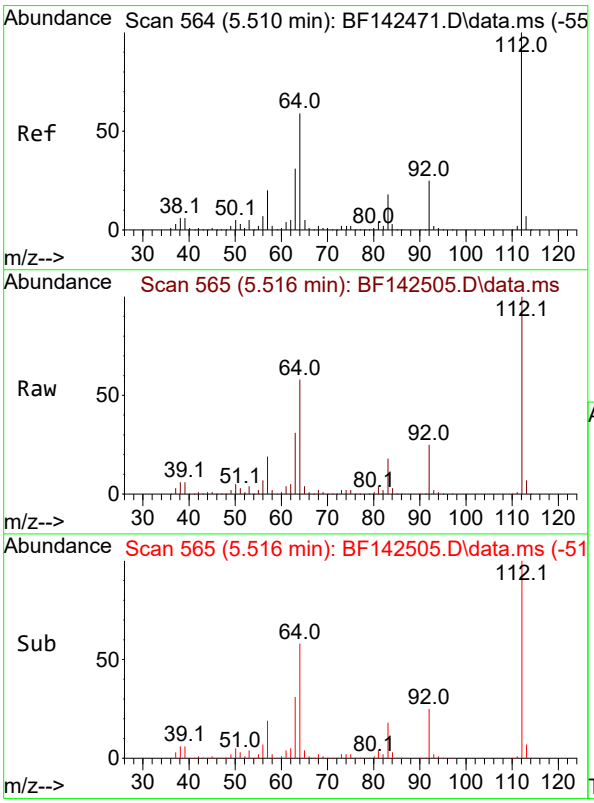
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:152 Resp: 105231

Ion	Ratio	Lower	Upper
152	100		
150	152.0	128.2	192.4
115	57.9	48.3	72.5

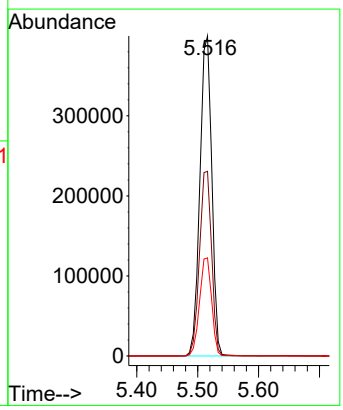


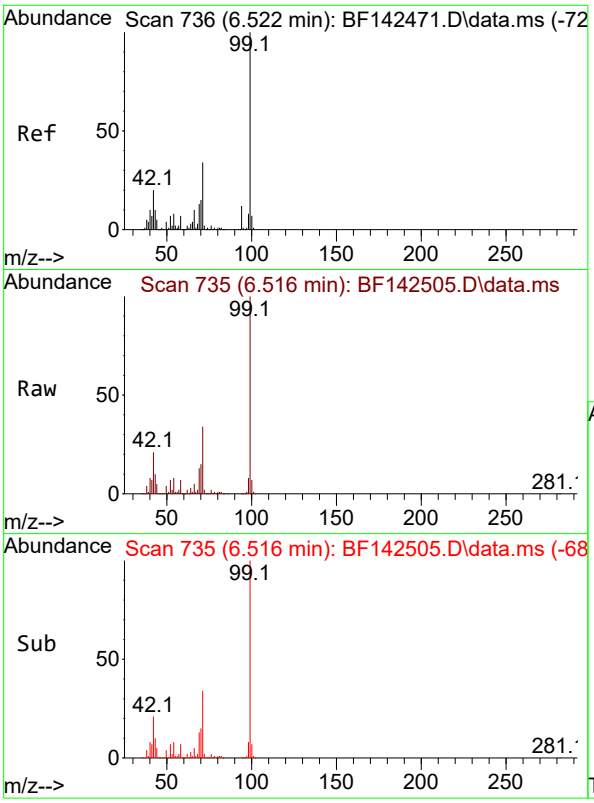


#5
2-Fluorophenol
Concen: 86.717 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:112 Resp: 541642

Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.5	71.3
63	30.7	24.9	37.3



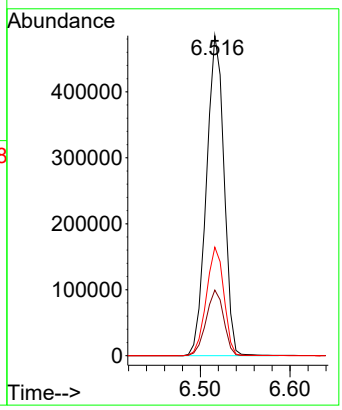


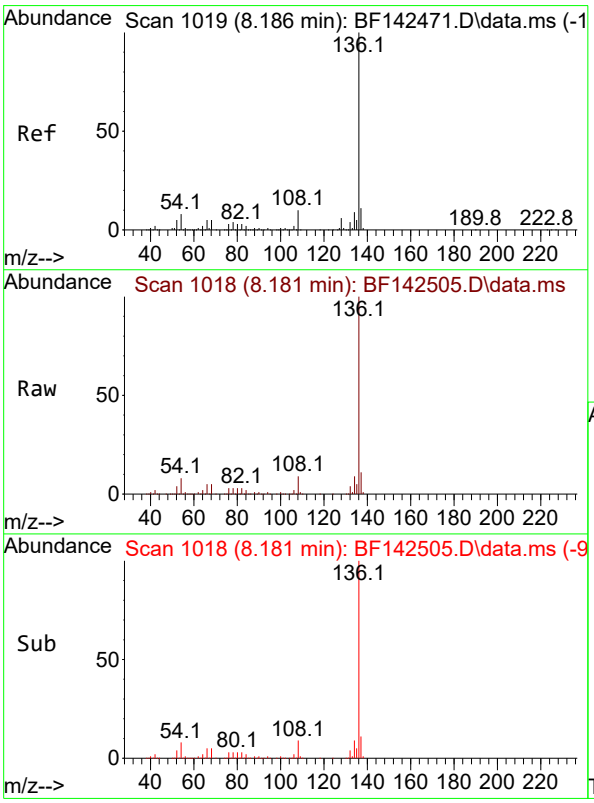
#7
Phenol-d6
Concen: 87.775 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion: 99 Resp: 659959

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.2	24.2
71	33.9	27.3	40.9

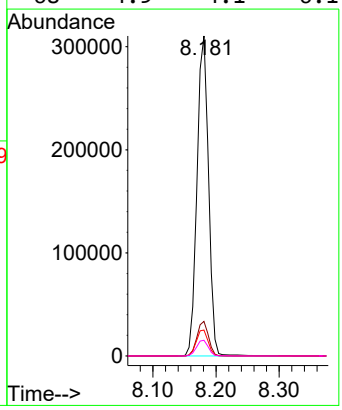


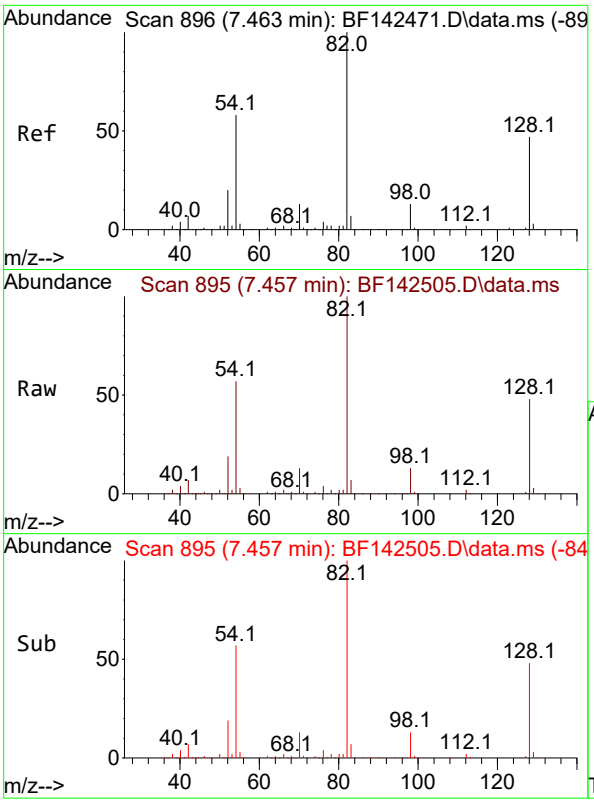


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:136 Resp: 393023

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.1	6.6	10.0
68	4.9	4.1	6.1



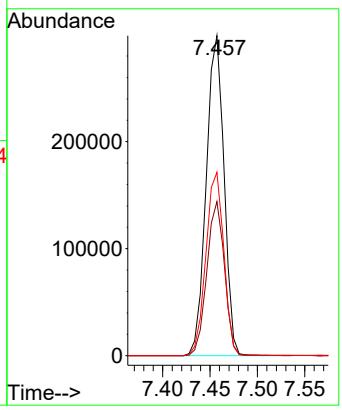


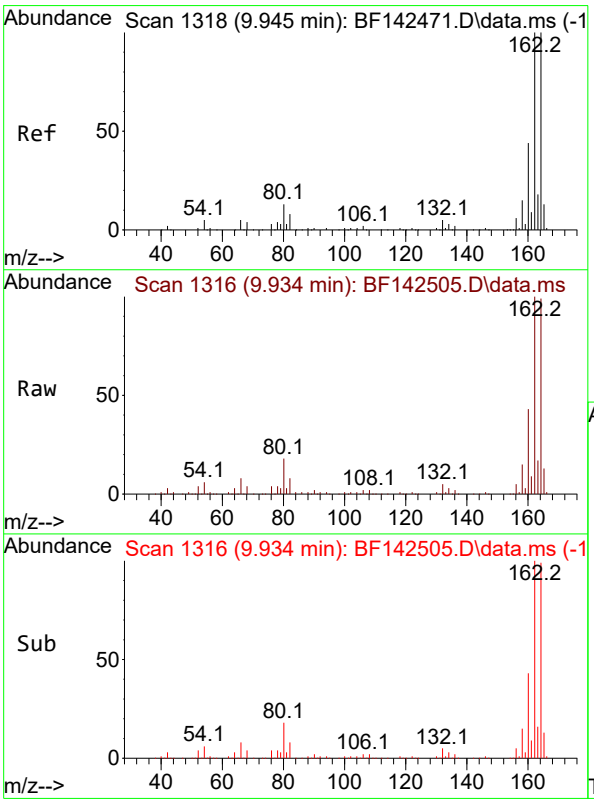
#23
Nitrobenzene-d5
Concen: 54.143 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion: 82 Resp: 390239

Ion	Ratio	Lower	Upper
82	100		
128	48.1	37.4	56.2
54	57.3	46.6	70.0

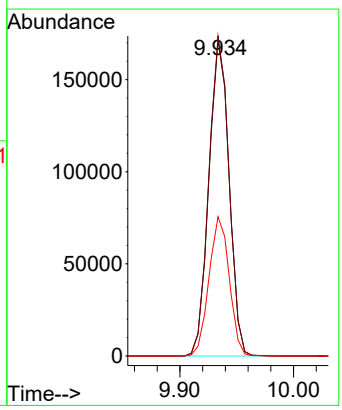


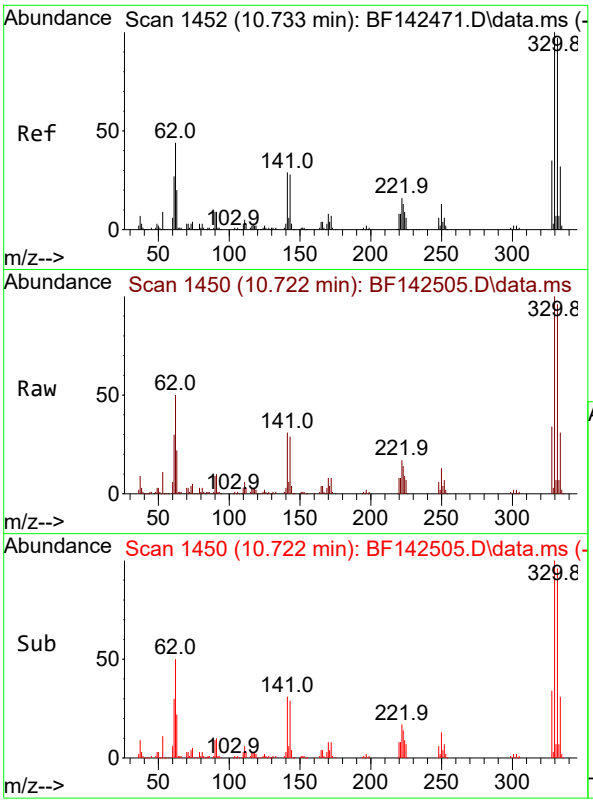


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:164 Resp: 211306

Ion	Ratio	Lower	Upper
164	100		
162	101.3	80.2	120.4
160	44.0	35.6	53.4



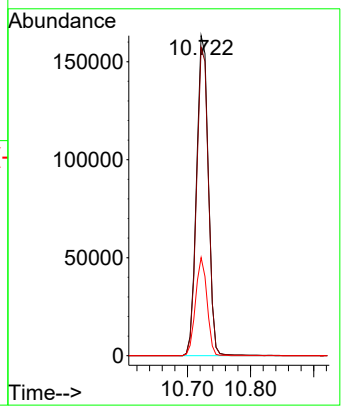


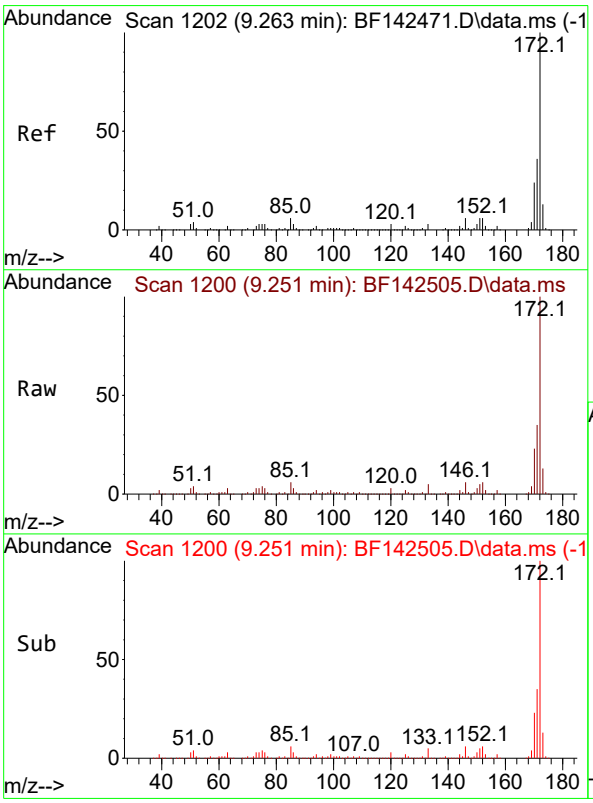
#42
2,4,6-Tribromophenol
Concen: 90.289 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:330 Resp: 211748

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	29.9	24.6	36.8

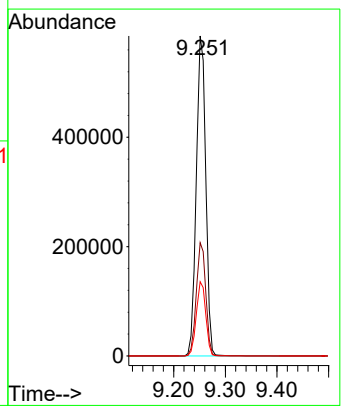


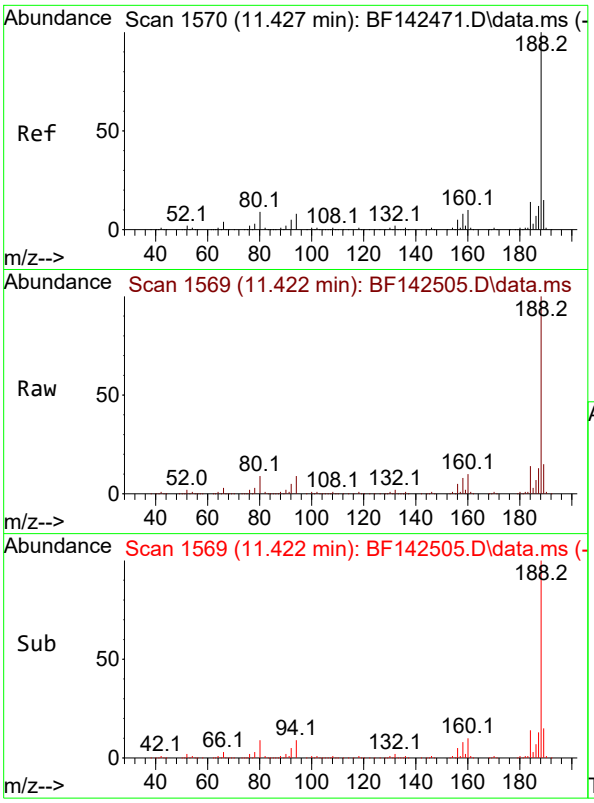


#45
2-Fluorobiphenyl
Concen: 47.375 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:172 Resp: 746030

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	23.2	18.9	28.3



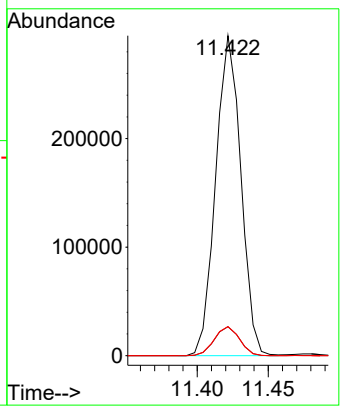


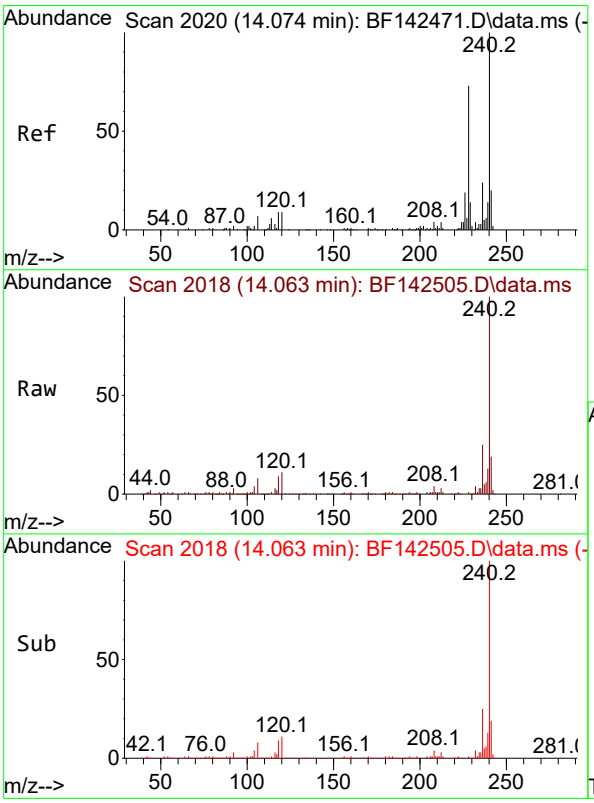
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:188 Resp: 363178

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.1	7.4	11.0

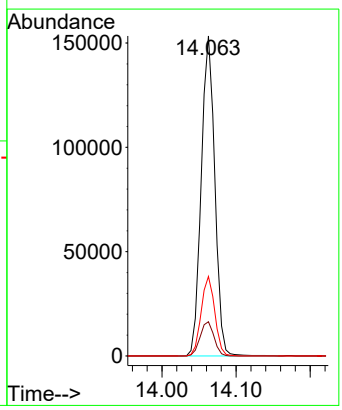


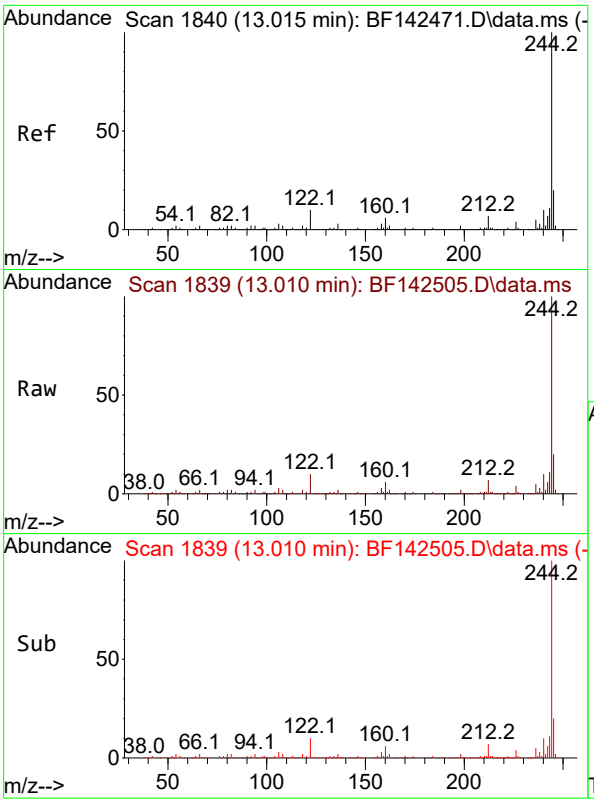


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:240 Resp: 195335

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.5	11.3
236	24.9	19.6	29.4



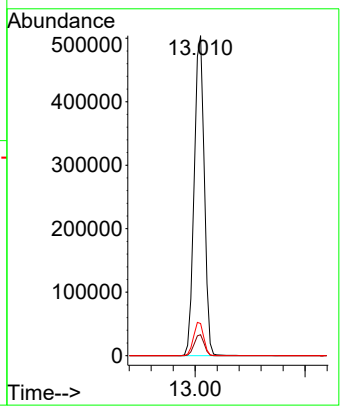


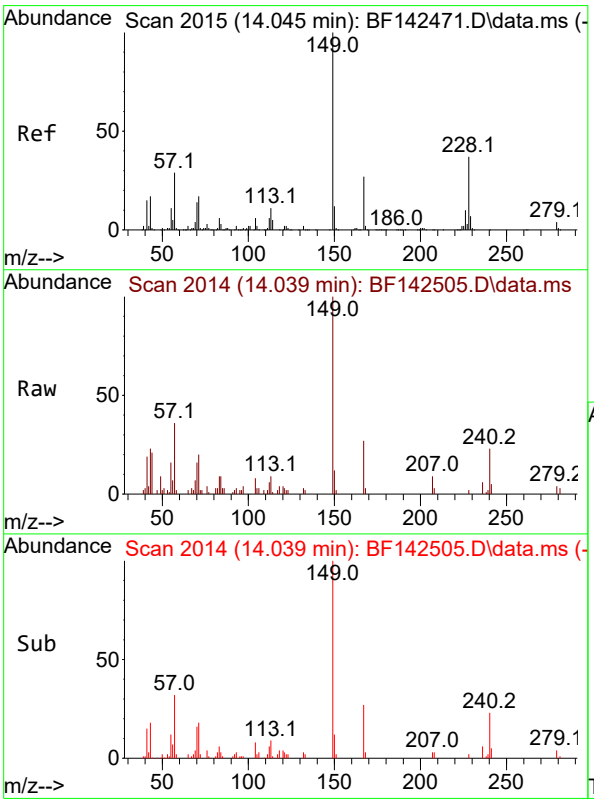
#79
Terphenyl-d14
Concen: 44.789 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:244 Resp: 640217

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.0	8.2	12.2

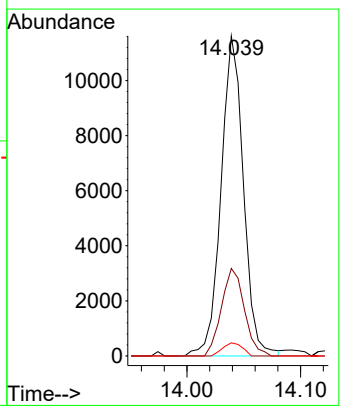


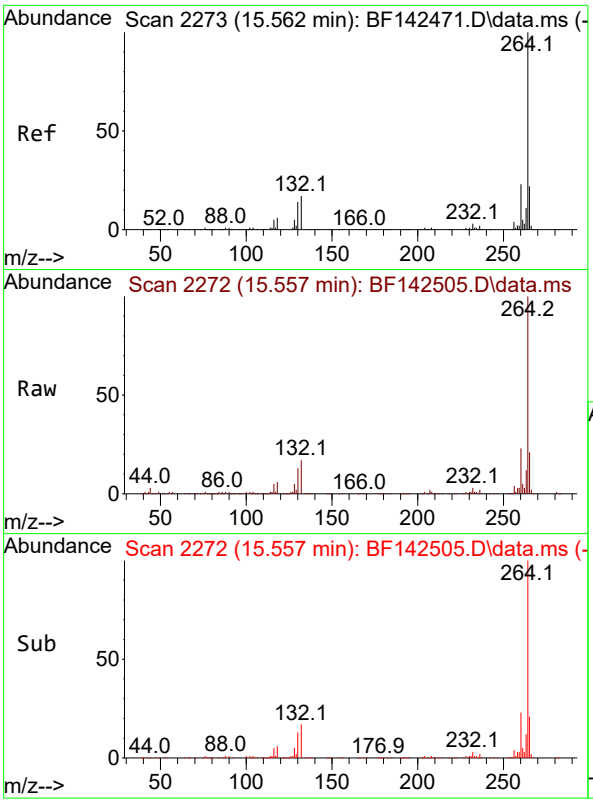


#84
Bis(2-ethylhexyl)phthalate
Concen: 2.469 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:149 Resp: 15913

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.5	32.3
279	4.1	3.2	4.8



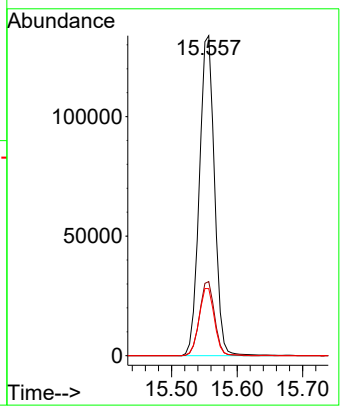


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:264 Resp: 215007

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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: BF142505.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	487	497	505	rBV	145120	216940	10.38%	1.347%
2	5.516	558	565	570	rBV	1370620	1868576	89.44%	11.604%
3	6.516	729	735	747	rBV	1405806	1933860	92.56%	12.010%
4	6.898	794	800	805	rBV	476691	596304	28.54%	3.703%
5	7.457	888	895	900	rBV	917897	1198158	57.35%	7.441%
6	7.710	933	938	946	rVB	32605	41225	1.97%	0.256%
7	8.181	1012	1018	1033	rBV	610616	780360	37.35%	4.846%
8	8.392	1050	1054	1060	rVB	18149	22463	1.08%	0.140%
9	9.251	1195	1200	1205	rBV	1662941	2089292	100.00%	12.975%
10	9.934	1311	1316	1321	rBV	713571	878893	42.07%	5.458%
11	10.645	1432	1437	1445	rVB	213987	266543	12.76%	1.655%
12	10.722	1445	1450	1455	rBV	1196776	1520826	72.79%	9.445%
13	10.957	1483	1490	1495	rBV2	22016	28037	1.34%	0.174%
14	11.422	1564	1569	1576	rBV	710008	876220	41.94%	5.442%
15	11.945	1651	1658	1674	rBV	241410	392241	18.77%	2.436%
16	12.198	1697	1701	1708	rVB3	15235	21034	1.01%	0.131%
17	12.445	1734	1743	1750	rBV3	18398	44230	2.12%	0.275%
18	12.727	1786	1791	1801	rBV2	38787	70677	3.38%	0.439%
19	13.010	1833	1839	1844	rBV	1308027	1676428	80.24%	10.411%
20	13.198	1865	1871	1882	rBV	27123	52341	2.51%	0.325%
21	13.810	1969	1975	1985	rBV	29356	52415	2.51%	0.326%
22	13.904	1986	1991	2004	rBV	38993	86800	4.15%	0.539%
23	14.063	2009	2018	2028	rVB	404749	565321	27.06%	3.511%
24	14.316	2056	2061	2069	rBV	37229	60545	2.90%	0.376%
25	14.780	2134	2140	2145	rBV	35173	60506	2.90%	0.376%
26	14.921	2160	2164	2171	rVB2	16478	24562	1.18%	0.153%
27	15.286	2221	2226	2232	rVB	26821	47003	2.25%	0.292%
28	15.557	2265	2272	2281	rVB	349024	569631	27.26%	3.538%
29	15.845	2316	2321	2330	rVB	19602	38152	1.83%	0.237%
30	16.504	2429	2433	2438	rVB2	12455	22866	1.09%	0.142%

Sum of corrected areas: 16102449

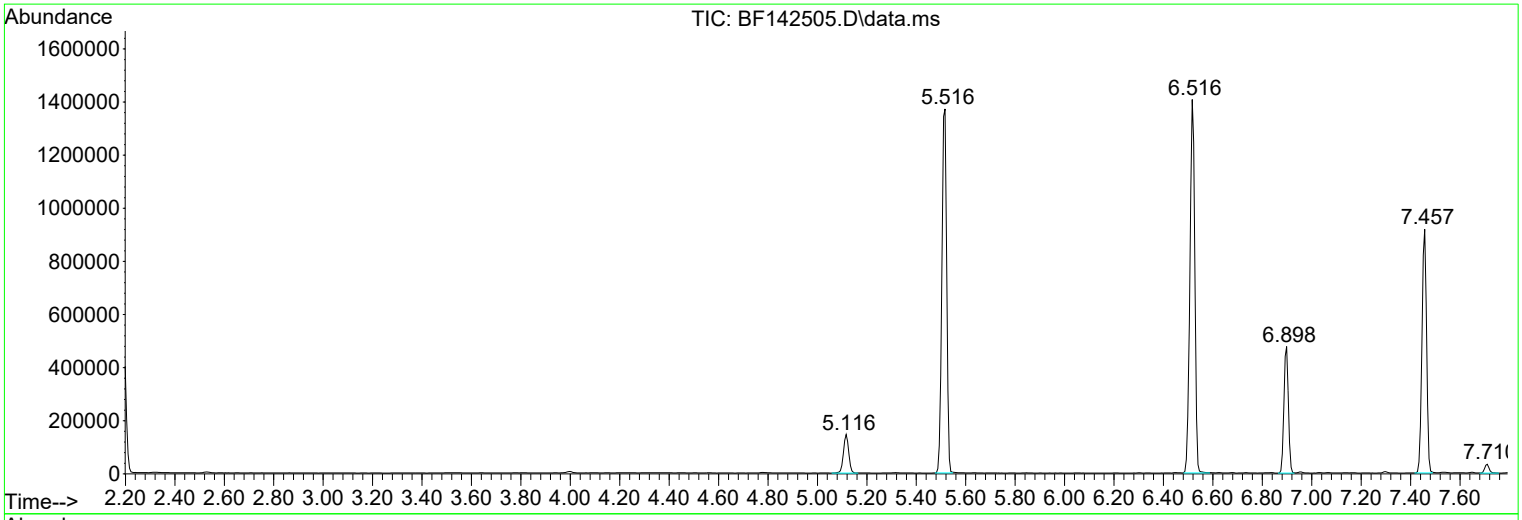
Sample Results: **BF142505.D**

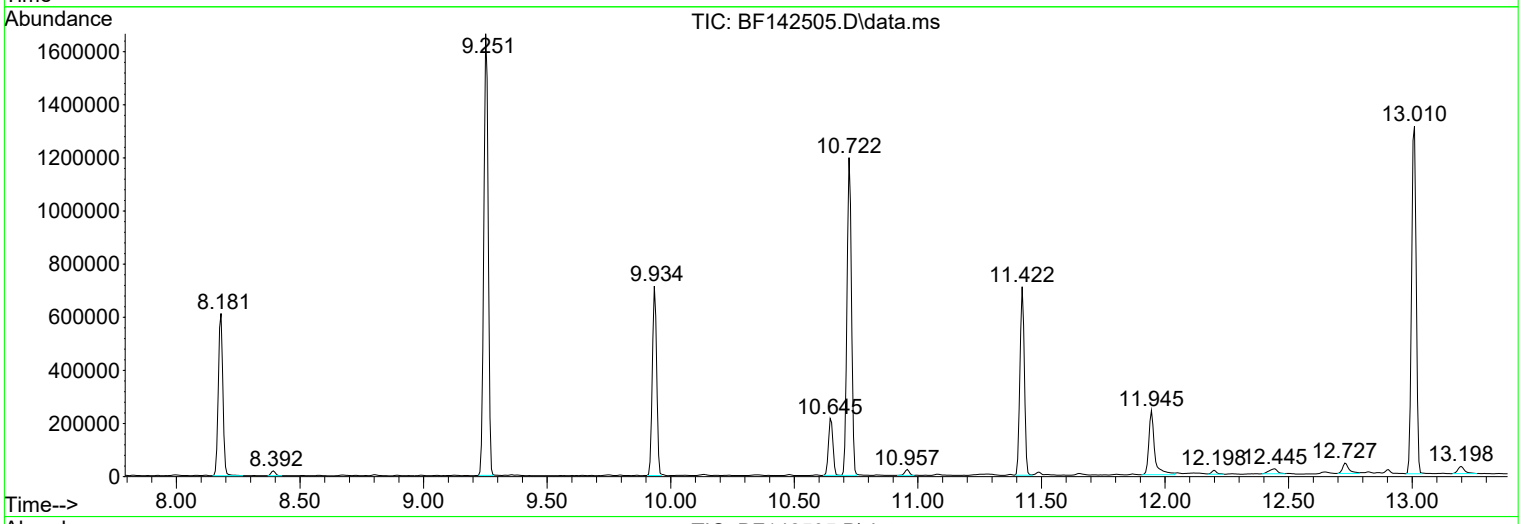
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

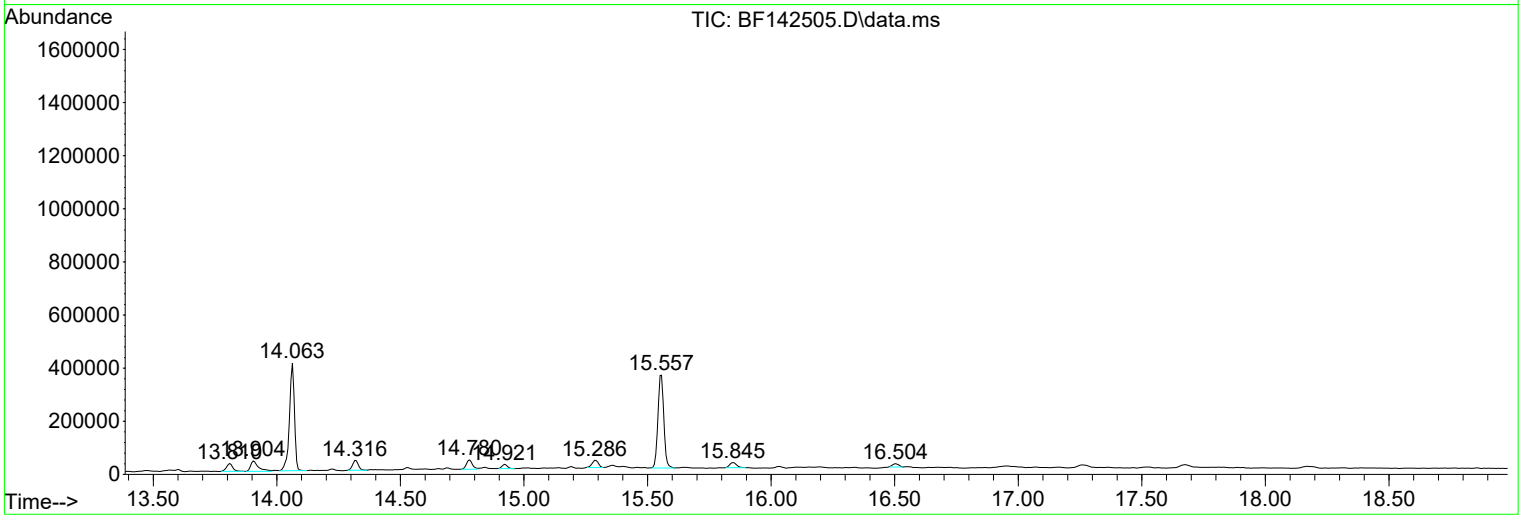
Instrument :
BNA_F
ClientSampleId :
TP-38

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\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

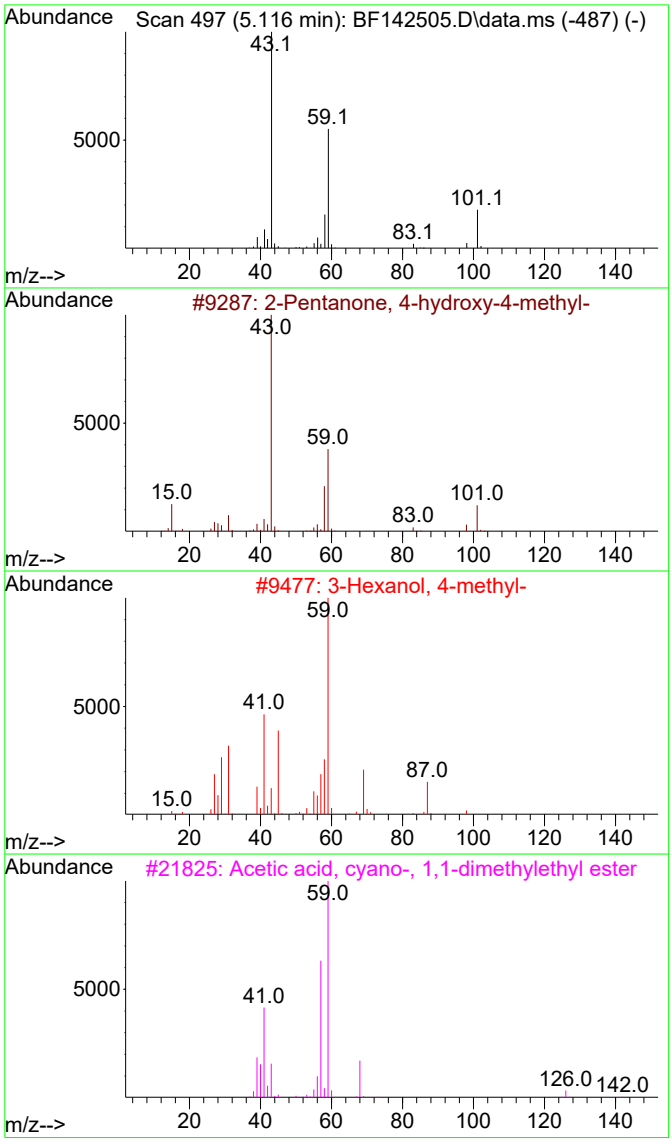
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

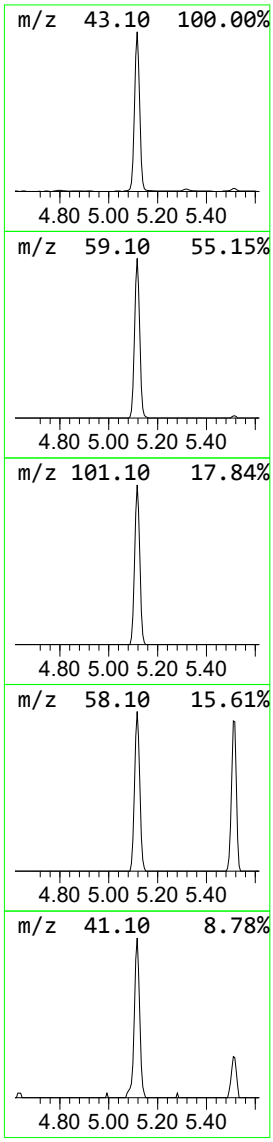
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	7.28 ng	216940	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	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

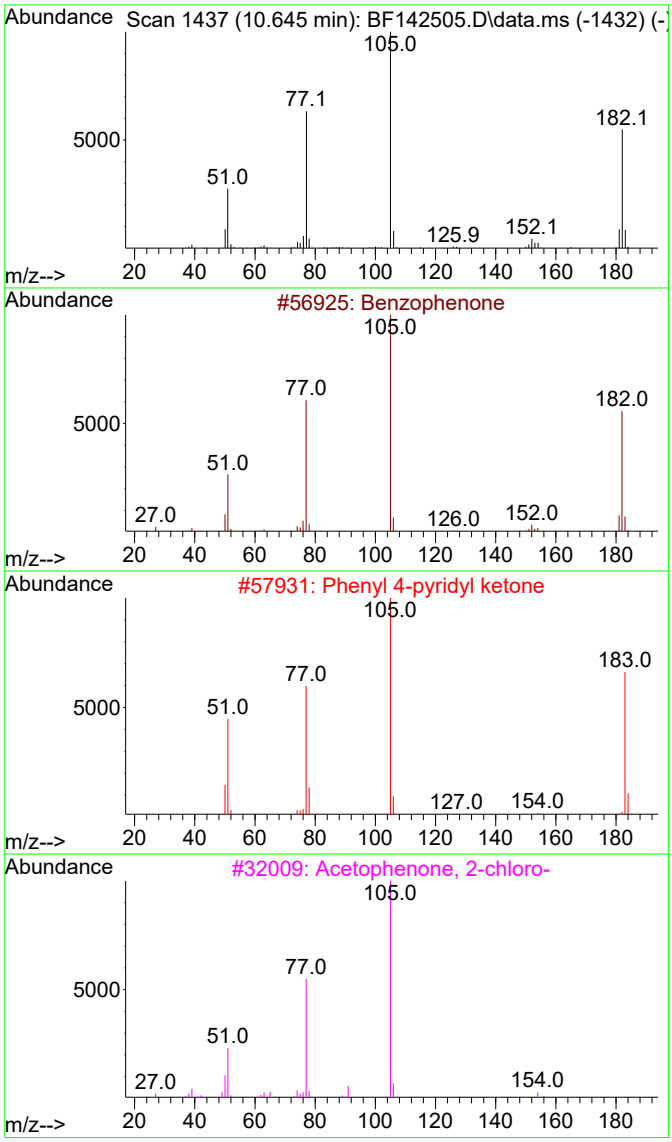
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

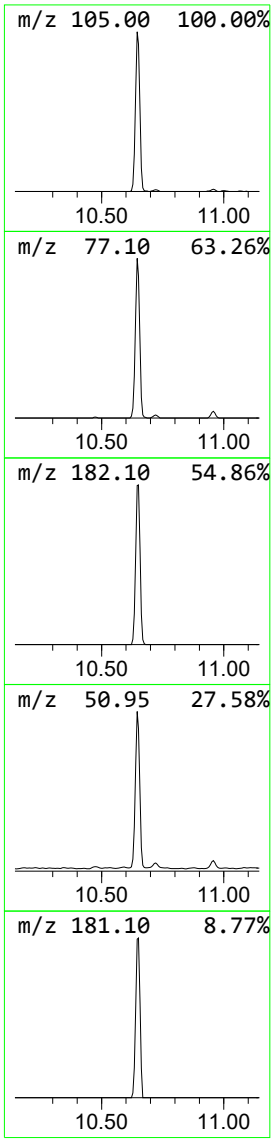
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	6.07 ng	266543	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	50
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

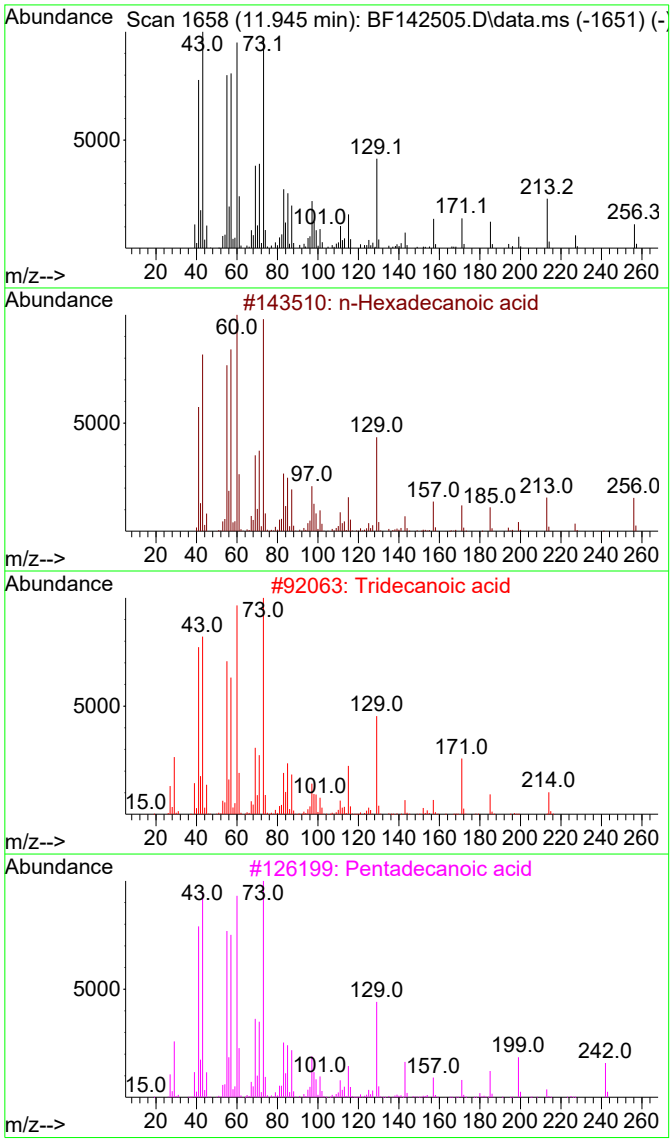
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

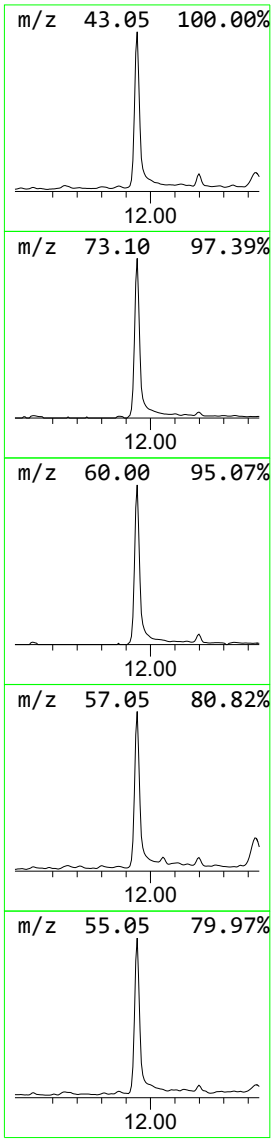
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.95 ng	392241	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	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

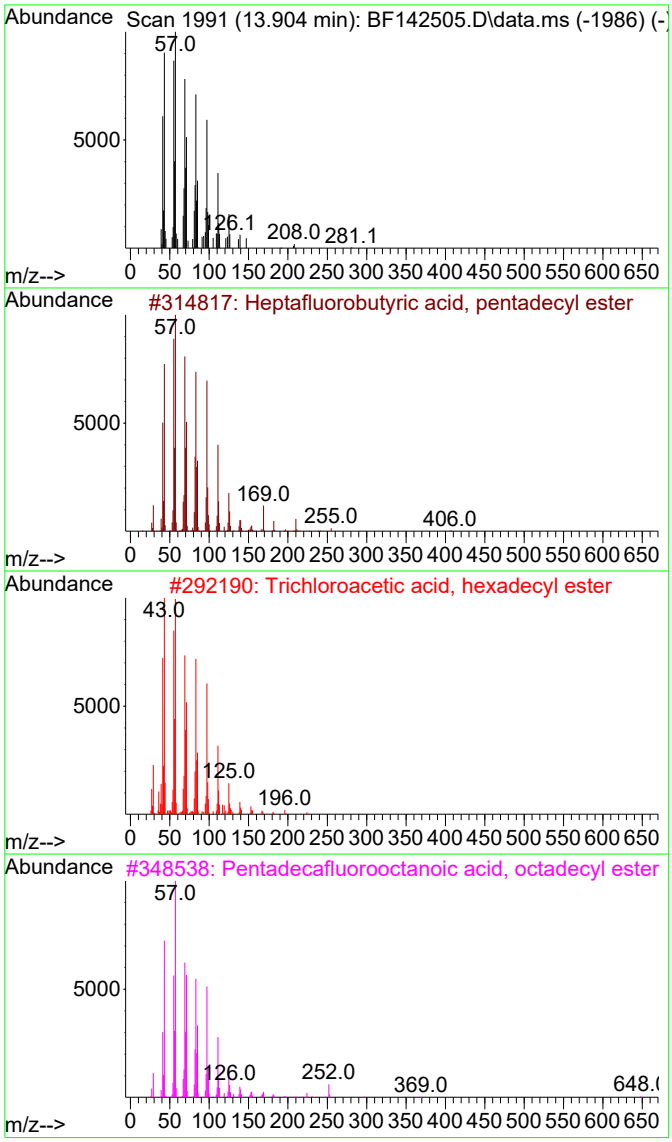
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

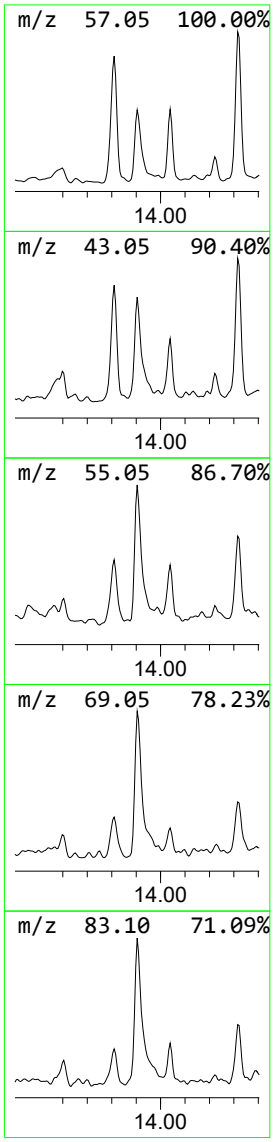
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Heptafluorobutyric acid, pe... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.07 ng	86800	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
3	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
4	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	94
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

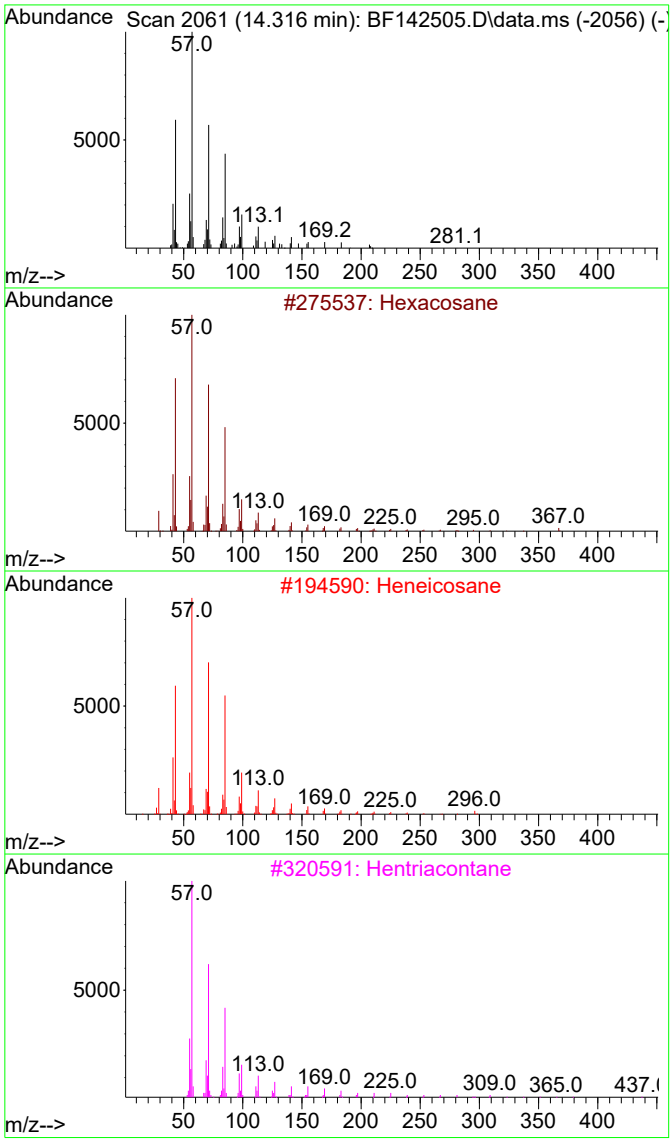
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

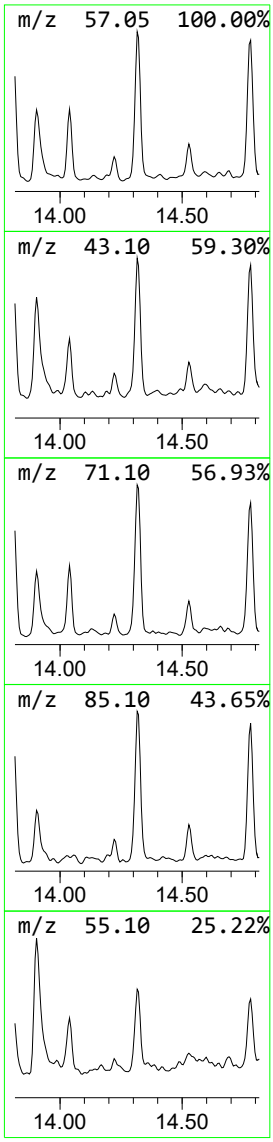
****

Peak Number 5 Hexacosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.316	2.14 ng	60545	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Hentriacontane	437	C31H64	000630-04-6	91
4	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
5	Octacosane	394	C28H58	000630-02-4	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

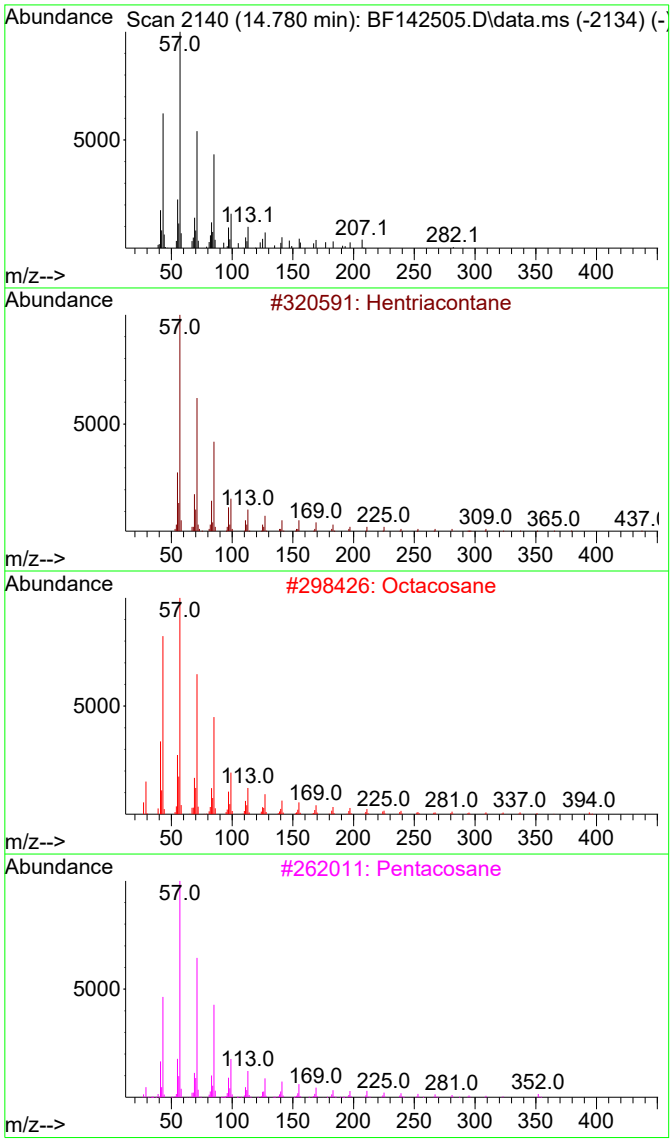
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

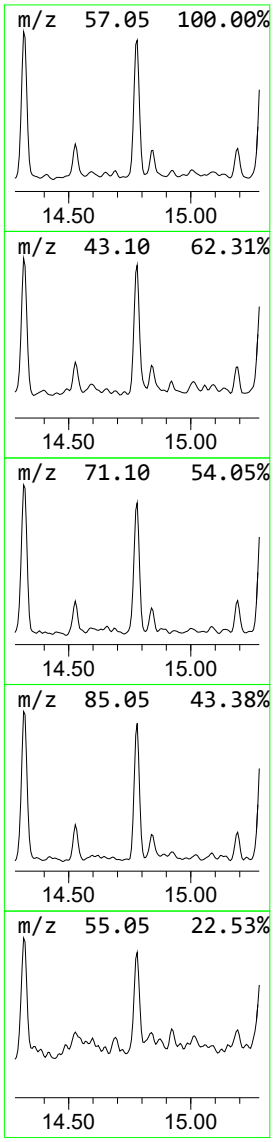
****

Peak Number 6 Hentriacontane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.780	2.14 ng	60506	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hentriacontane	437	C31H64	000630-04-6	94
2	Octacosane	394	C28H58	000630-02-4	91
3	Pentacosane	352	C25H52	000629-99-2	91
4	Hexacosane	366	C26H54	000630-01-3	91
5	Tetratetracontane	619	C44H90	007098-22-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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	7.3	ng	216940	1	6.898	596304	20.0
Benzophenone	10.645	6.1	ng	266543	3	9.934	878893	20.0
n-Hexadecanoic ...	11.945	8.9	ng	392241	4	11.422	876220	20.0
Heptafluorobuty...	13.904	3.1	ng	86800	5	14.063	565321	20.0
Hexacosane	14.316	2.1	ng	60545	5	14.063	565321	20.0
Hentriacontane	14.780	2.1	ng	60506	5	14.063	565321	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Time: May 21 14:38:50 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

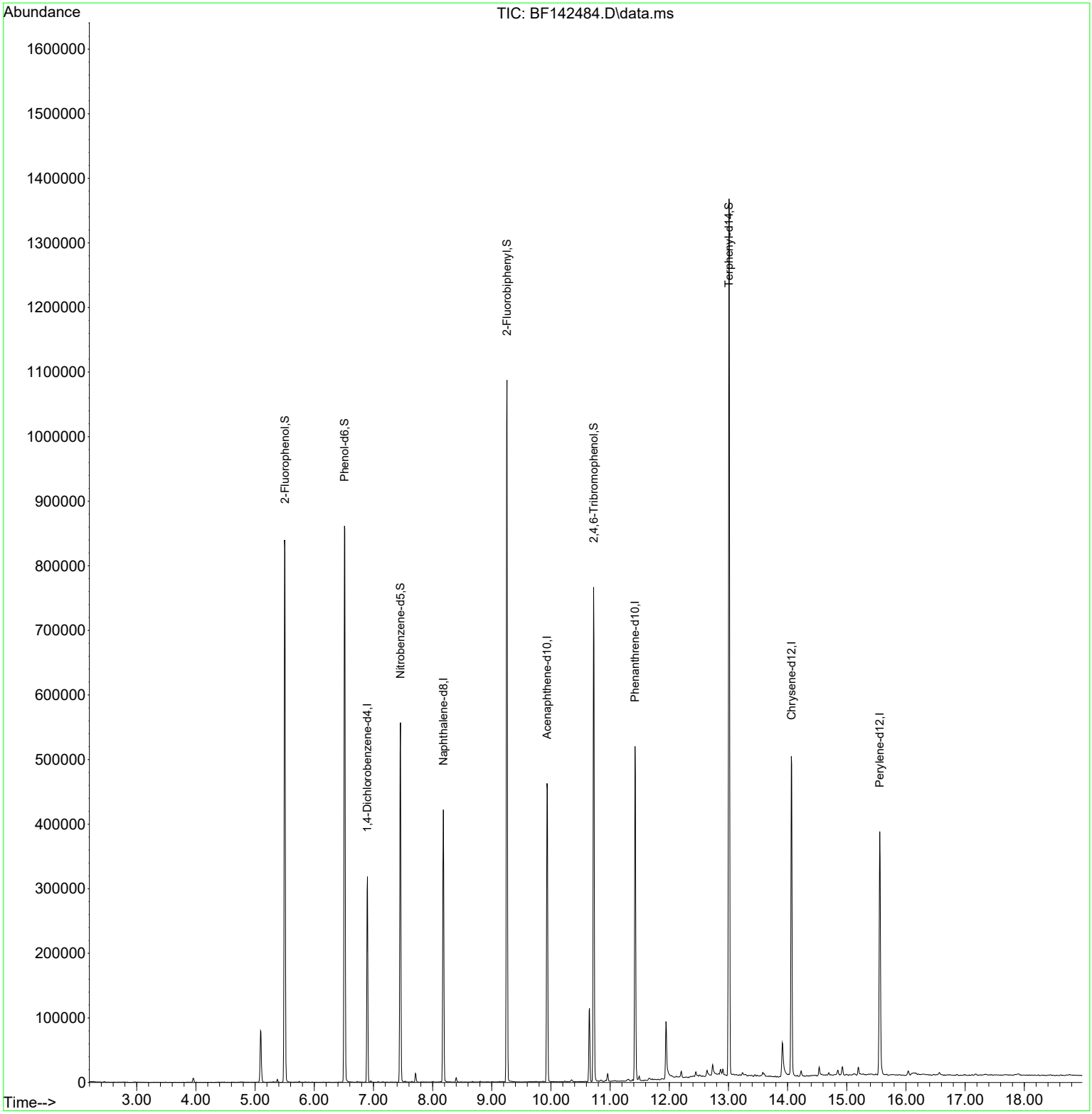
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	68503	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	265449	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	143783	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	270138	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	248278	20.000	ng	0.00
86) Perylene-d12	15.557	264	222913	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	322674	79.358	ng	-0.01
7) Phenol-d6	6.510	99	397670	81.247	ng	-0.02
23) Nitrobenzene-d5	7.457	82	228983	47.038	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	132464	83.007	ng	-0.02
45) 2-Fluorobiphenyl	9.257	172	491232	45.844	ng	-0.01
79) Terphenyl-d14	13.010	244	641662	35.318	ng	0.00
Target Compounds						Qvalue

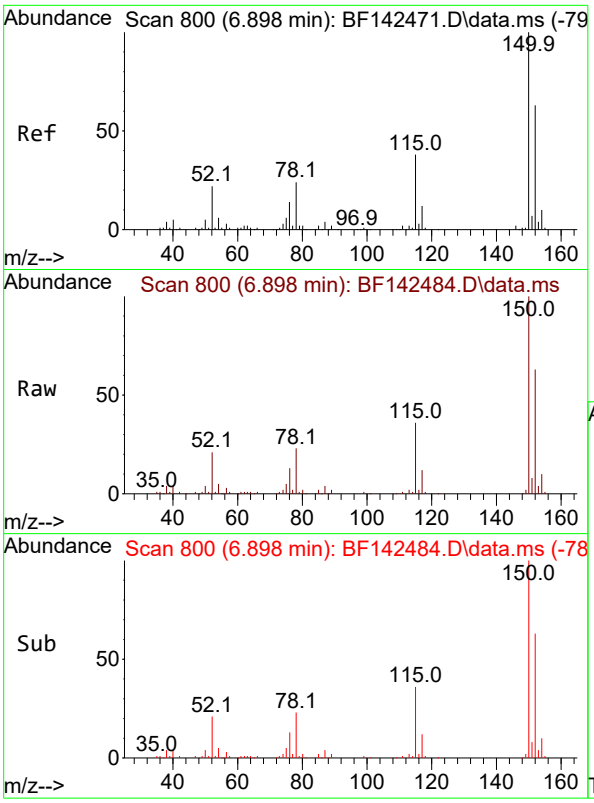
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Time: May 21 14:38:50 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



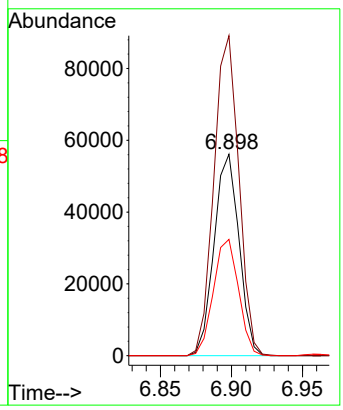


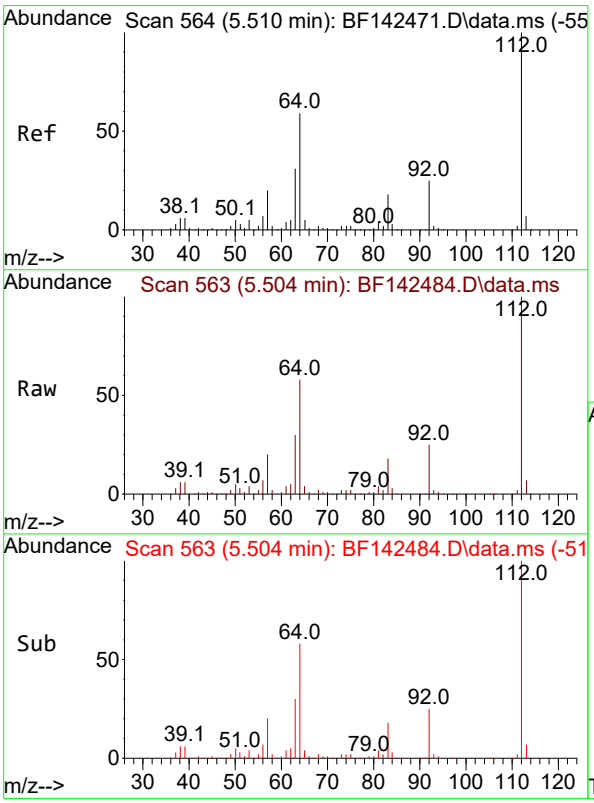
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:152 Resp: 68503

Ion	Ratio	Lower	Upper
152	100		
150	158.8	128.2	192.4
115	57.7	48.3	72.5

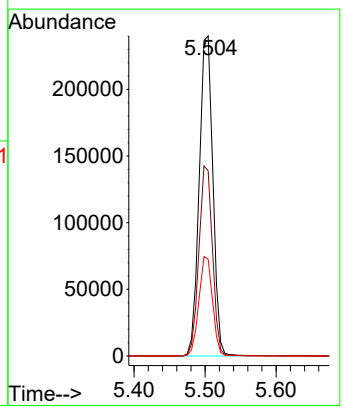


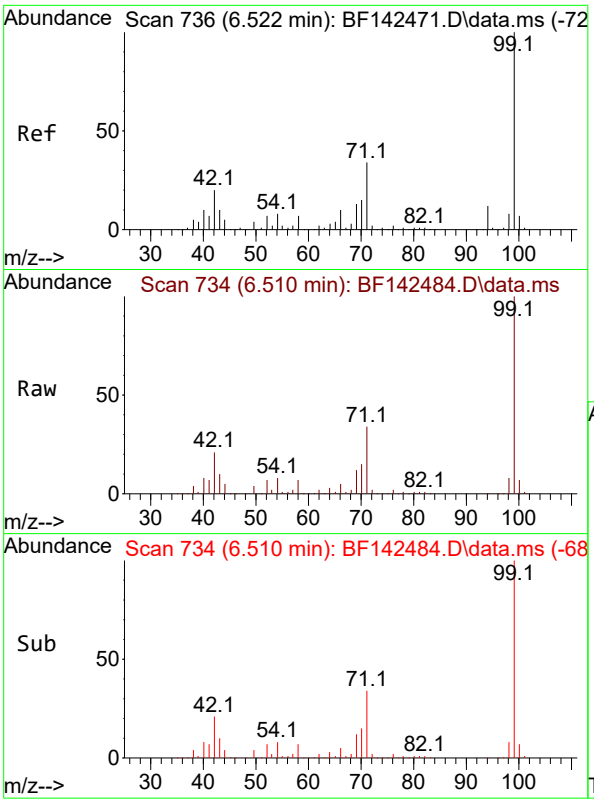


#5
2-Fluorophenol
Concen: 79.358 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:112 Resp: 322674

Ion	Ratio	Lower	Upper
112	100		
64	57.9	47.5	71.3
63	30.3	24.9	37.3



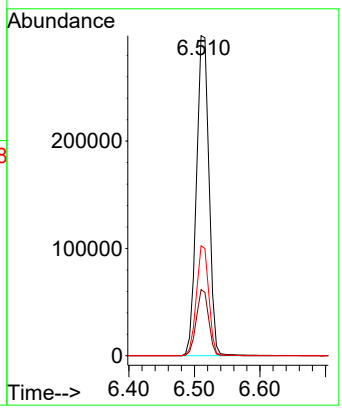


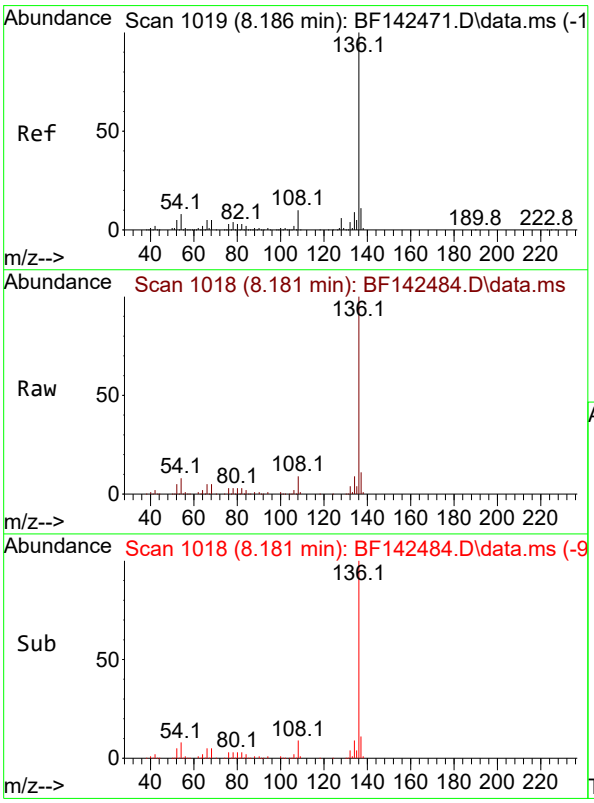
#7
Phenol-d6
Concen: 81.247 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.023 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion: 99 Resp: 397670

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.2	24.2
71	34.3	27.3	40.9

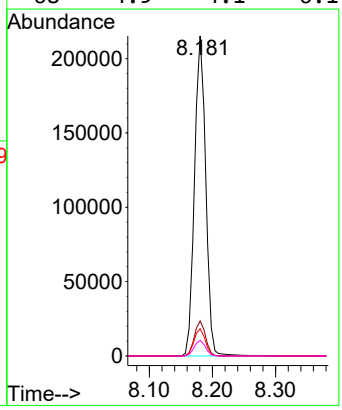


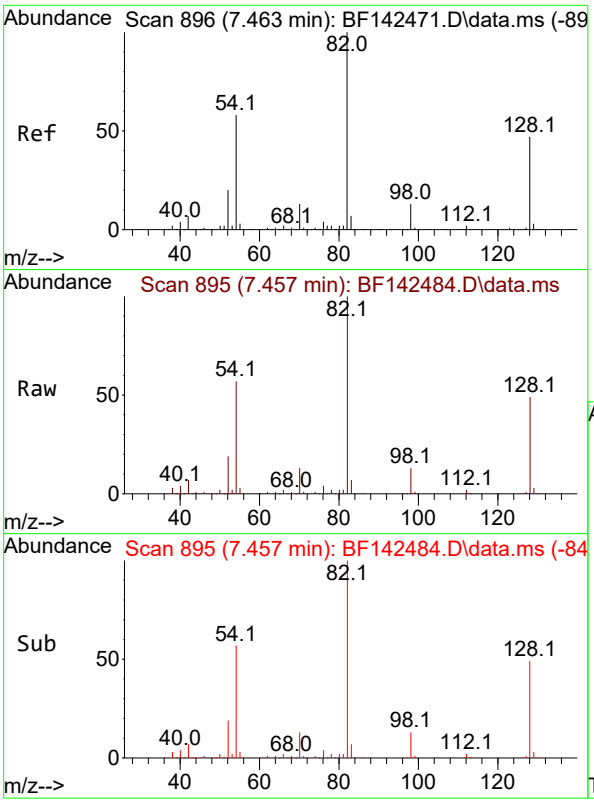


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:136 Resp: 265449

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.5	6.6	10.0
68	4.9	4.1	6.1



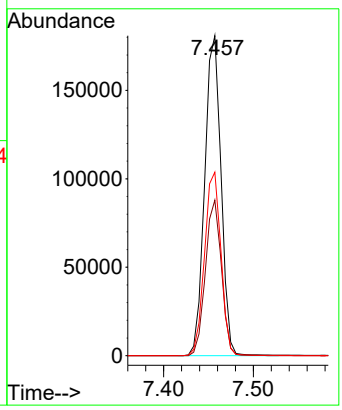


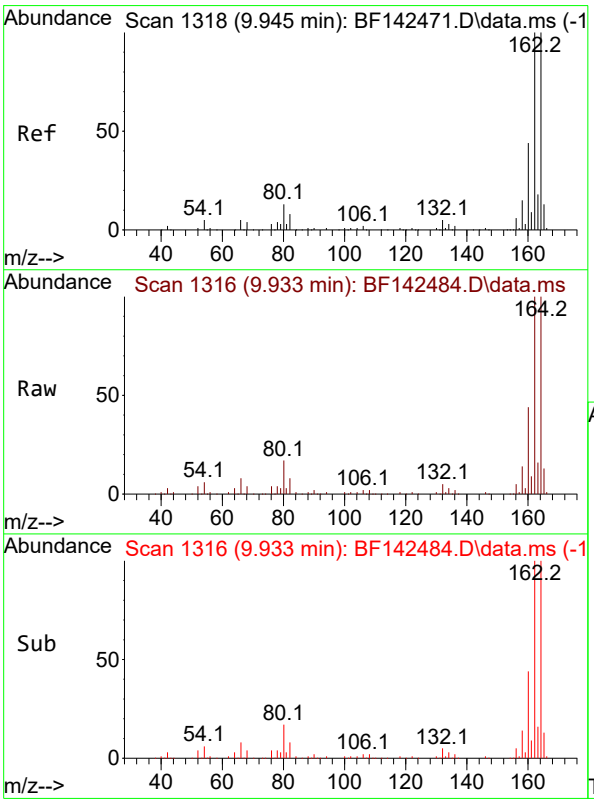
#23
Nitrobenzene-d5
Concen: 47.038 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion: 82 Resp: 228983

Ion	Ratio	Lower	Upper
82	100		
128	48.6	37.4	56.2
54	57.4	46.6	70.0

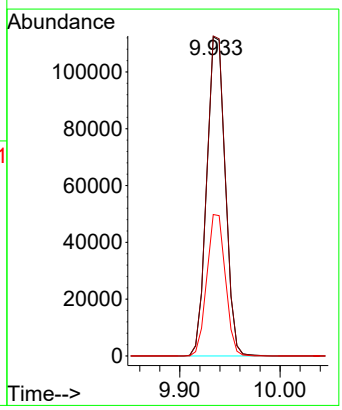


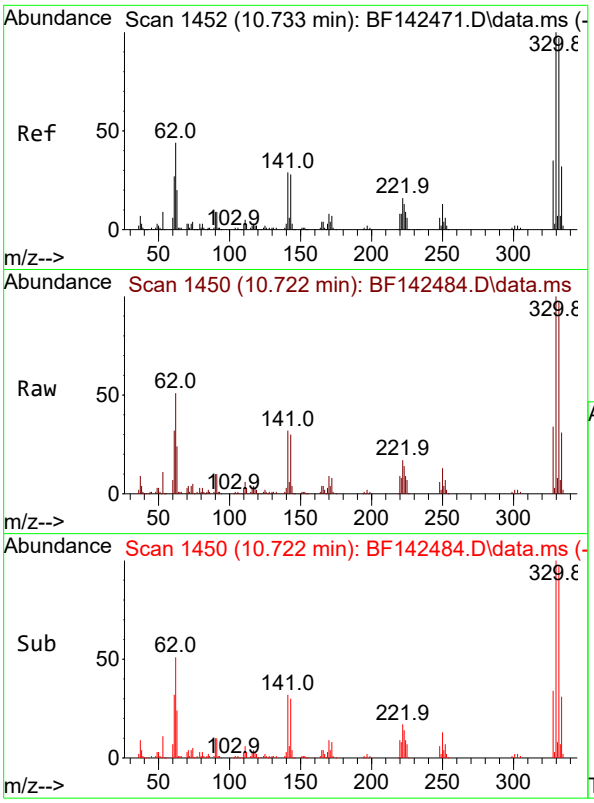


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:164 Resp: 143783

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.2	120.4
160	44.3	35.6	53.4



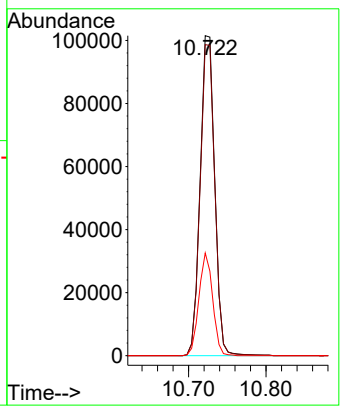


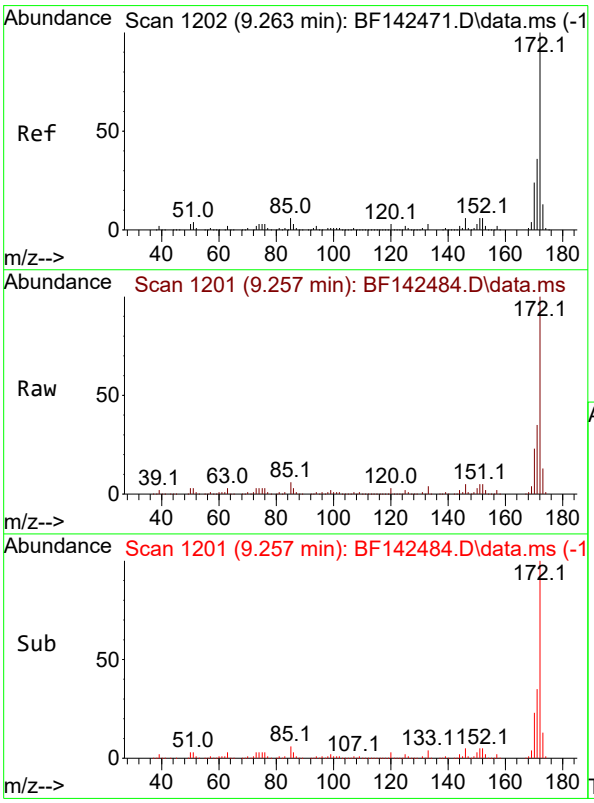
#42
2,4,6-Tribromophenol
Concen: 83.007 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:330 Resp: 132464

Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.6	116.4
141	30.3	24.6	36.8

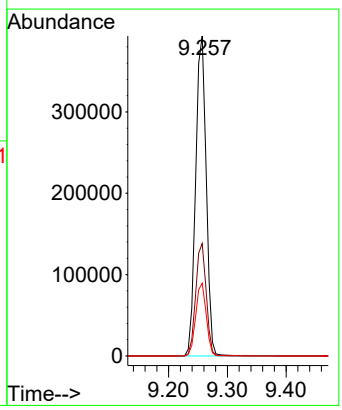


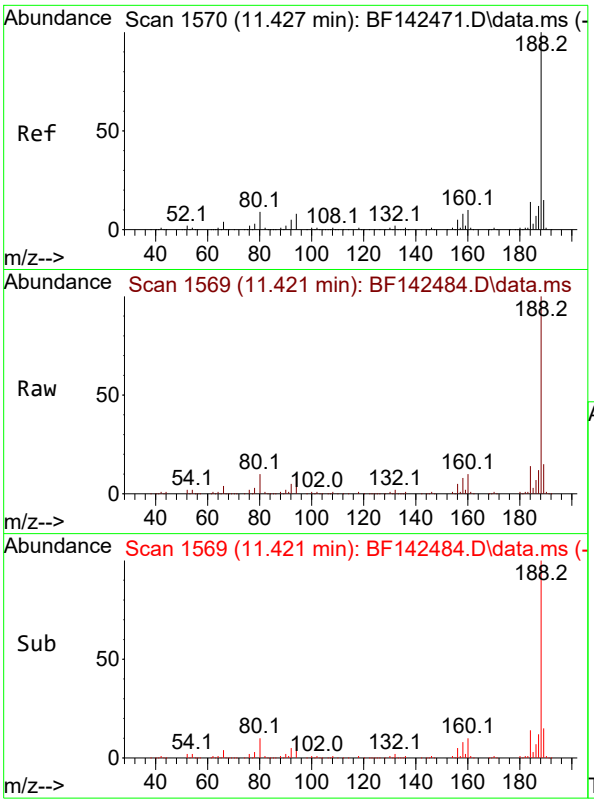


#45
2-Fluorobiphenyl
Concen: 45.844 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:172 Resp: 491232

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	22.7	18.9	28.3



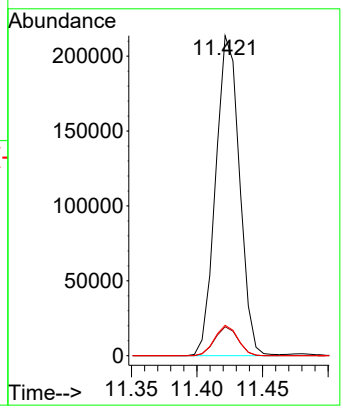


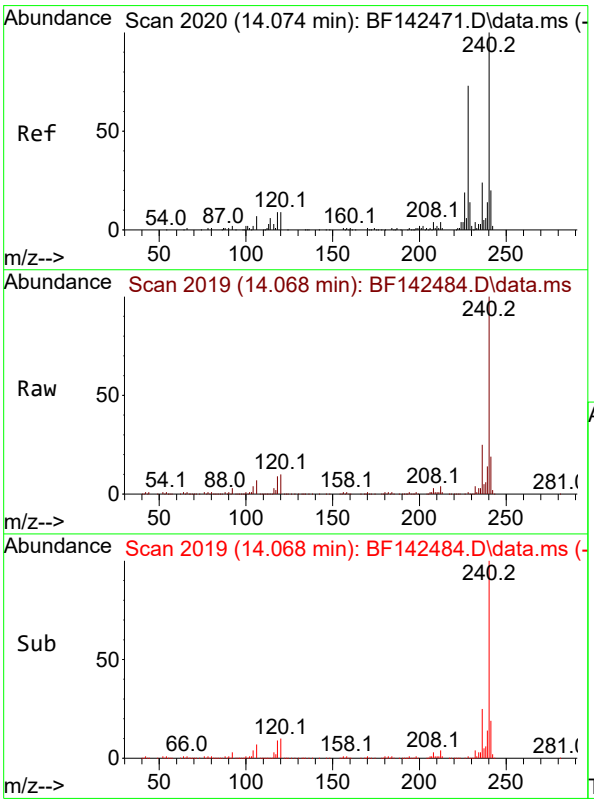
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:188 Resp: 270138

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.5	7.4	11.0

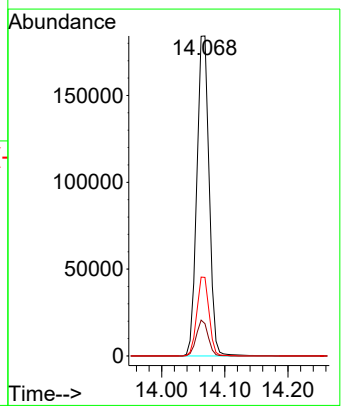


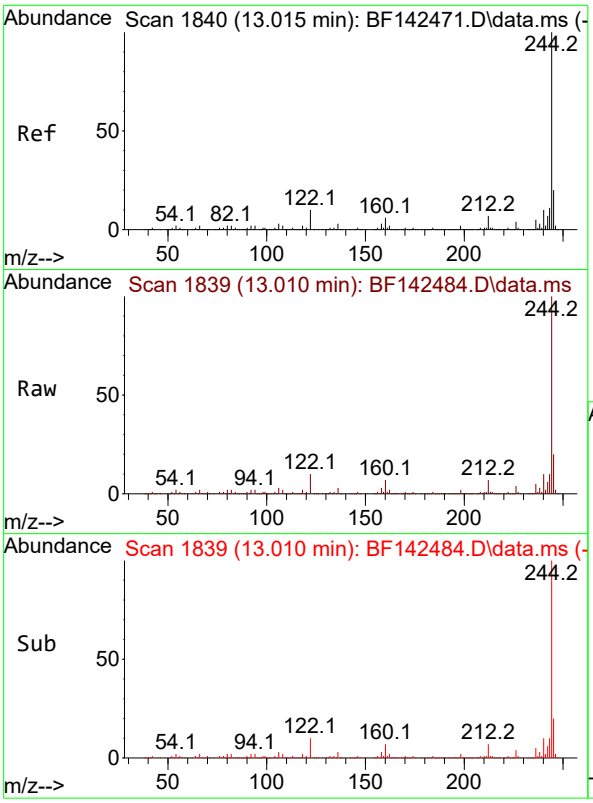


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:240 Resp: 248278

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	24.6	19.6	29.4



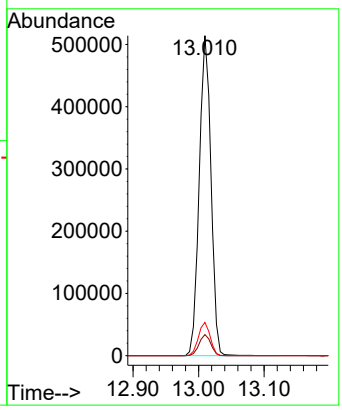


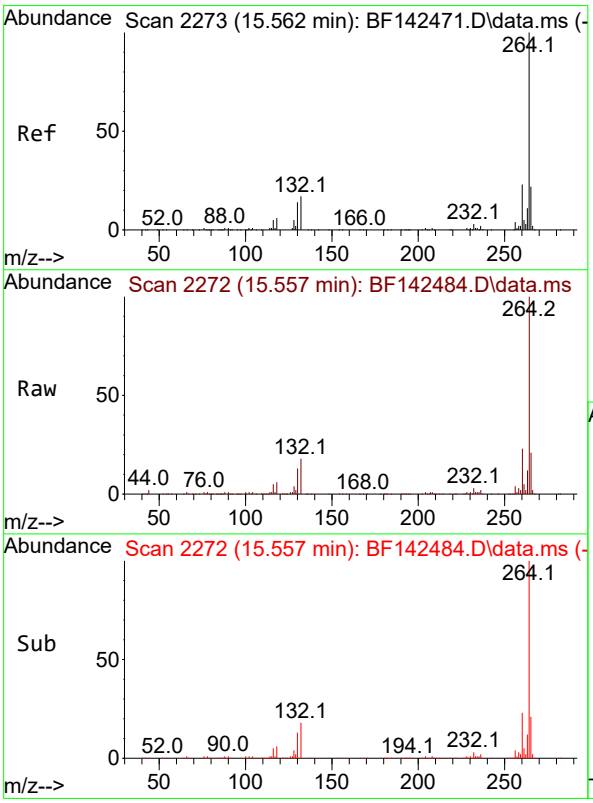
#79
Terphenyl-d14
Concen: 35.318 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:244 Resp: 641662

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.4	8.2	12.2

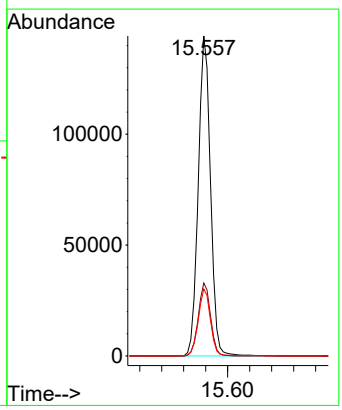




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:264 Resp: 222913

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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: BF142484.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.092	486	493	503	rBV	79834	119776	7.10%	1.084%
2	5.498	556	562	568	rBV	839777	1124606	66.66%	10.182%
3	6.510	729	734	745	rBV	860846	1153682	68.38%	10.445%
4	6.898	795	800	805	rBV	318176	390414	23.14%	3.535%
5	7.457	889	895	900	rBV	556772	700173	41.50%	6.339%
6	7.710	935	938	944	rBV	13497	17261	1.02%	0.156%
7	8.181	1013	1018	1031	rBV	421477	514991	30.53%	4.662%
8	9.257	1195	1201	1206	rBV	1086599	1356869	80.43%	12.284%
9	9.933	1311	1316	1322	rBV	462092	587194	34.80%	5.316%
10	10.651	1433	1438	1445	rBV	113414	143288	8.49%	1.297%
11	10.722	1445	1450	1461	rBV	765428	962535	57.05%	8.714%
12	11.421	1564	1569	1576	rBV	517502	656874	38.94%	5.947%
13	11.945	1653	1658	1672	rBV2	88955	152975	9.07%	1.385%
14	12.639	1771	1776	1784	rBV	9350	19522	1.16%	0.177%
15	12.733	1788	1792	1805	rVV6	16135	33130	1.96%	0.300%
16	13.010	1834	1839	1844	rBV	1356715	1687103	100.00%	15.274%
17	13.910	1987	1992	2007	rBV	52213	117217	6.95%	1.061%
18	14.063	2013	2018	2030	rVB	494788	666613	39.51%	6.035%
19	14.533	2094	2098	2104	rBV	13185	19792	1.17%	0.179%
20	14.927	2161	2165	2170	rVB	12768	18236	1.08%	0.165%
21	15.198	2206	2211	2215	rBV	12391	18797	1.11%	0.170%
22	15.557	2266	2272	2287	rBV	377084	584375	34.64%	5.291%

Sum of corrected areas: 11045423

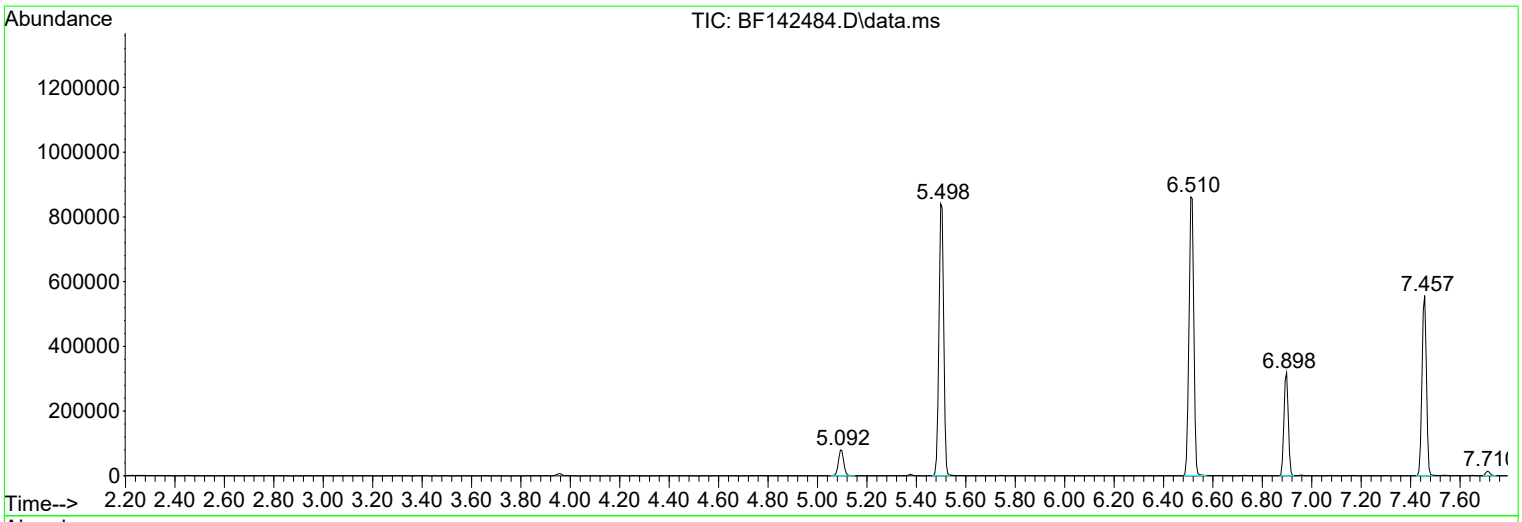
Sample Results: **BF142484.D**

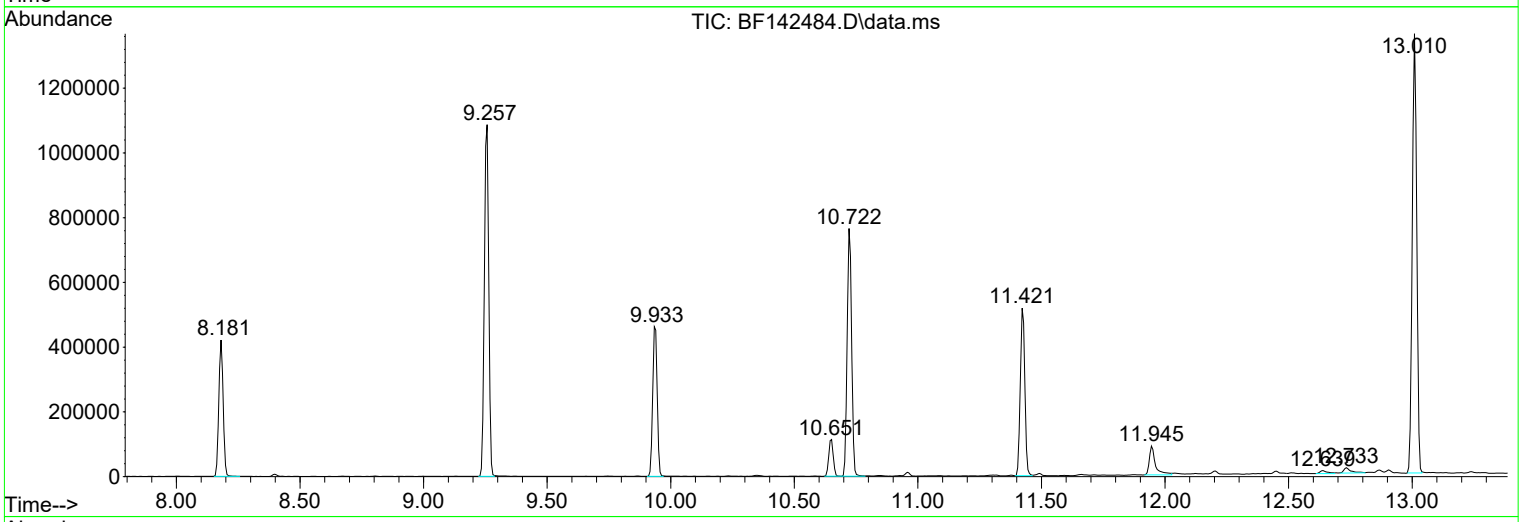
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

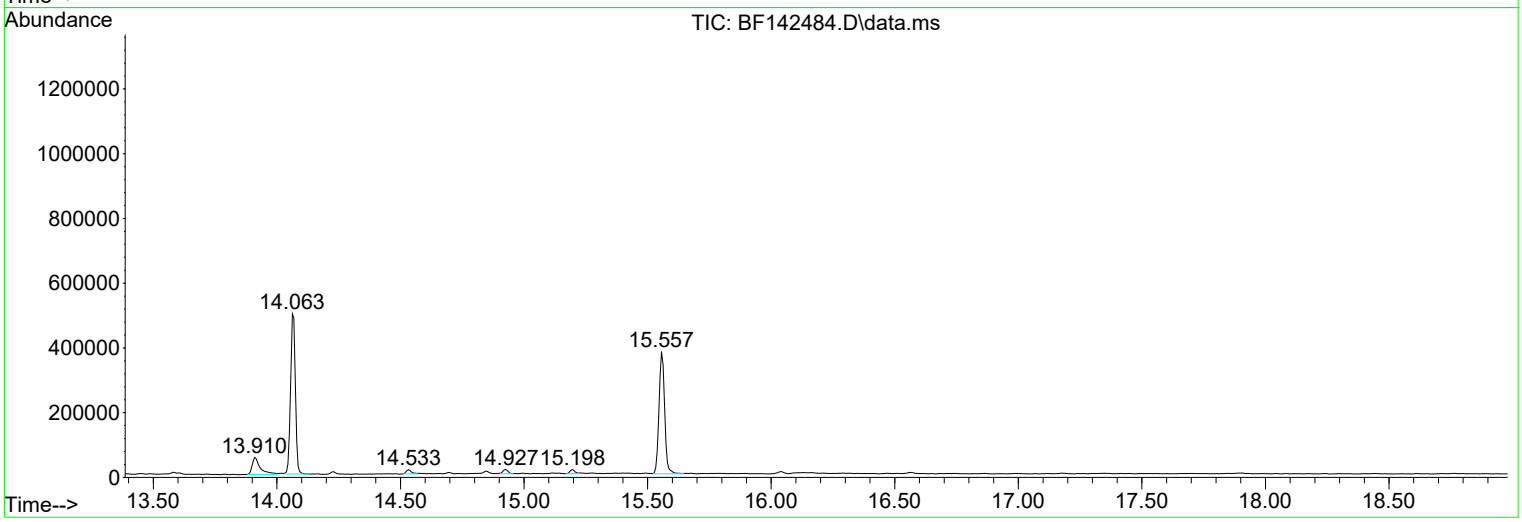
Instrument :
BNA_F
ClientSampleId :
TP-19

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\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

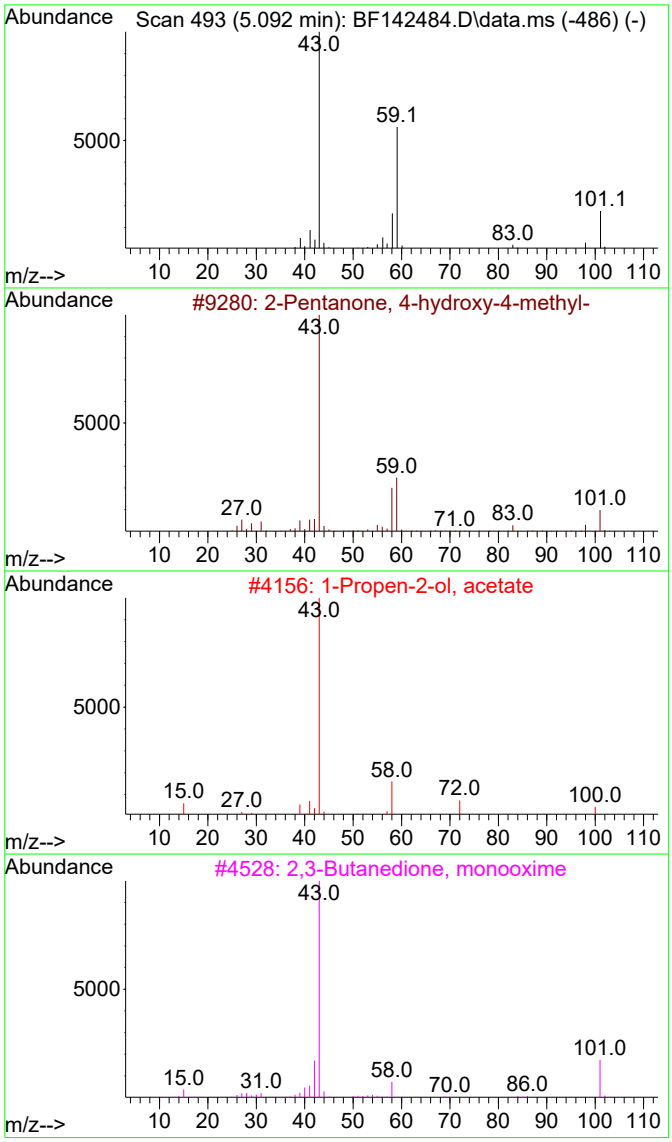
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

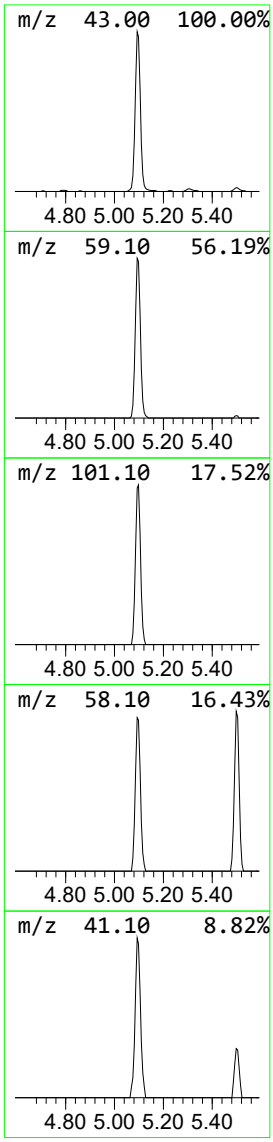
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.092	6.14 ng	119776	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	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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

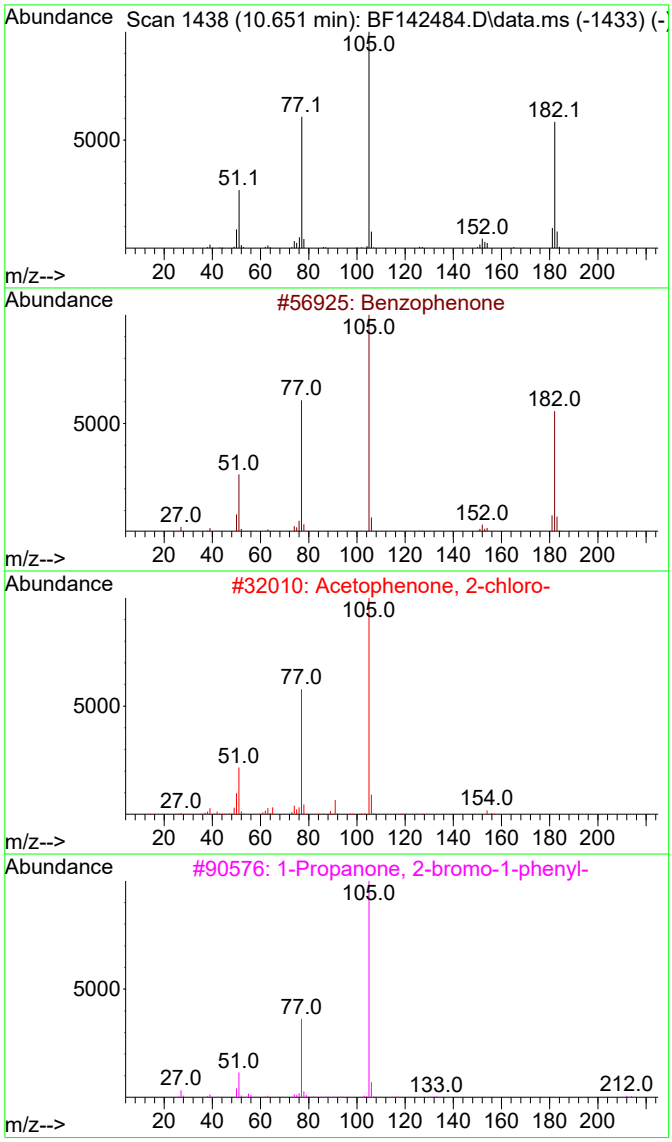
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

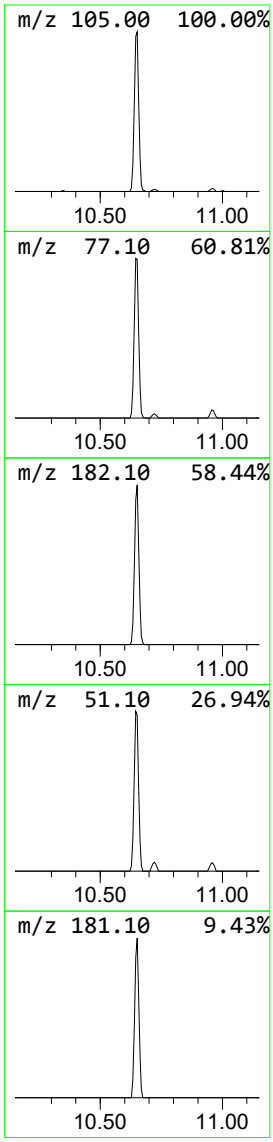
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.88 ng	143288	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	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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

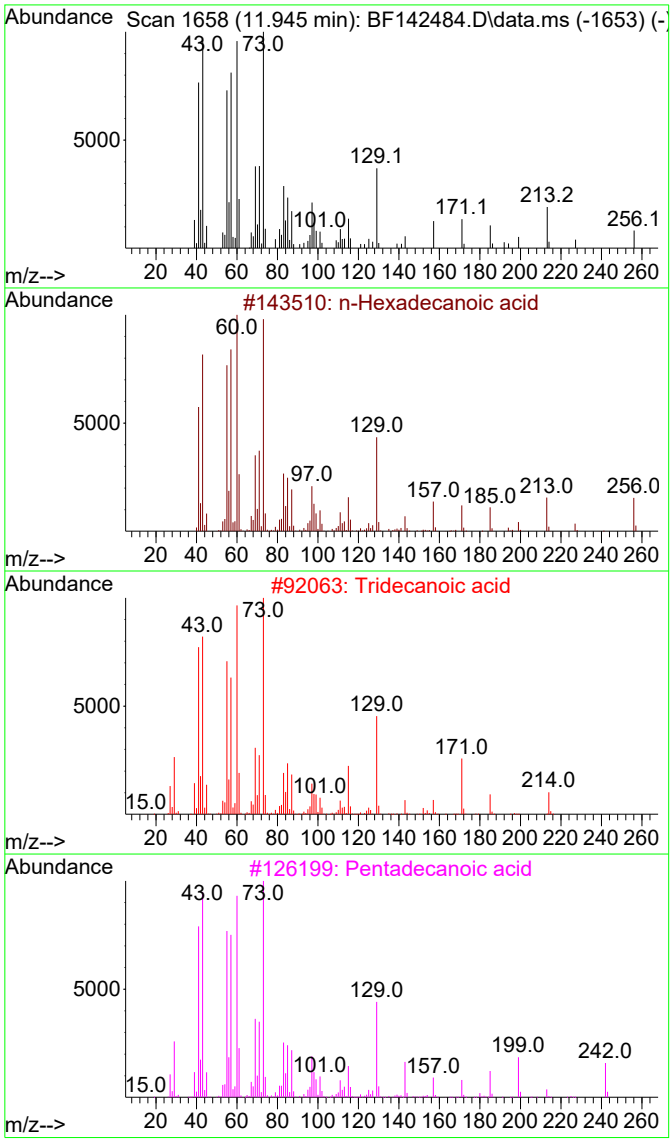
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

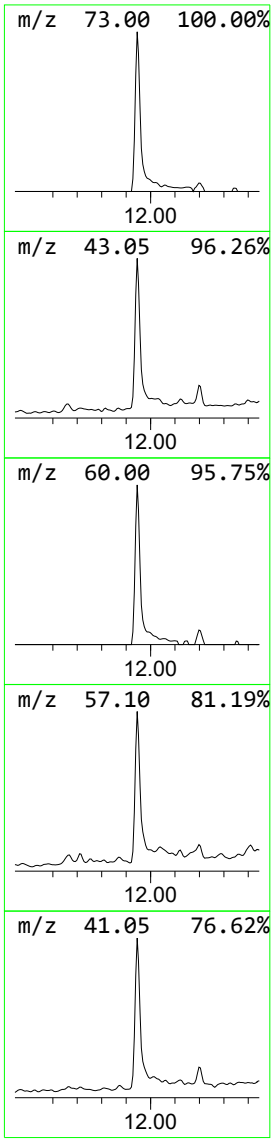
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.66 ng	152975	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	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	Undecanoic acid	186	C11H22O2	000112-37-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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

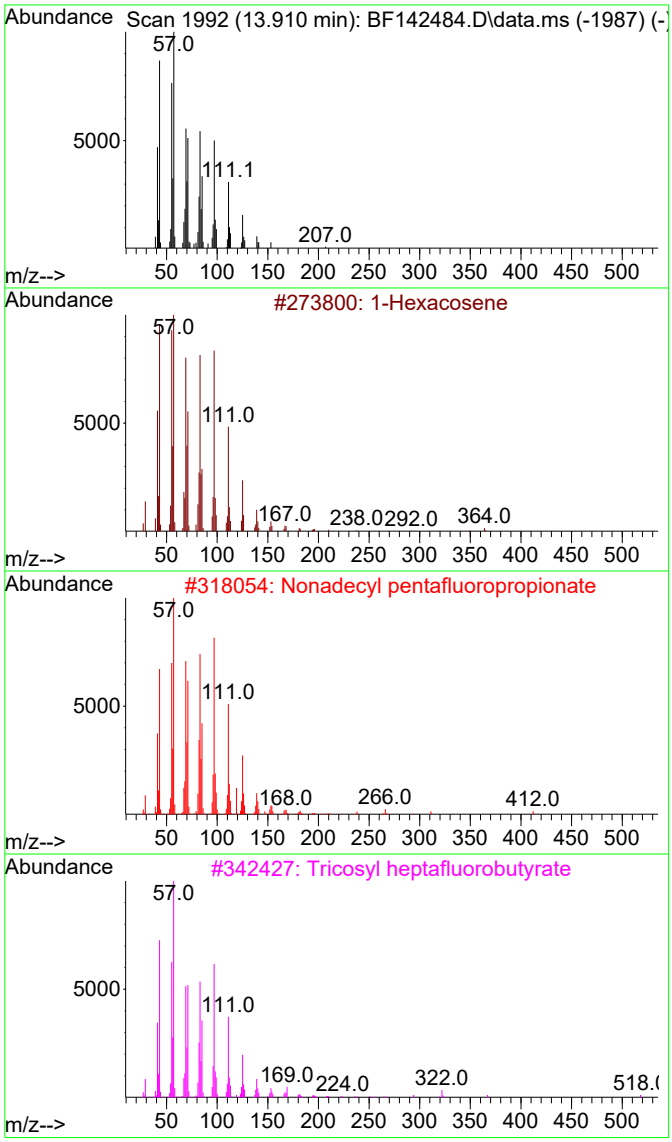
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

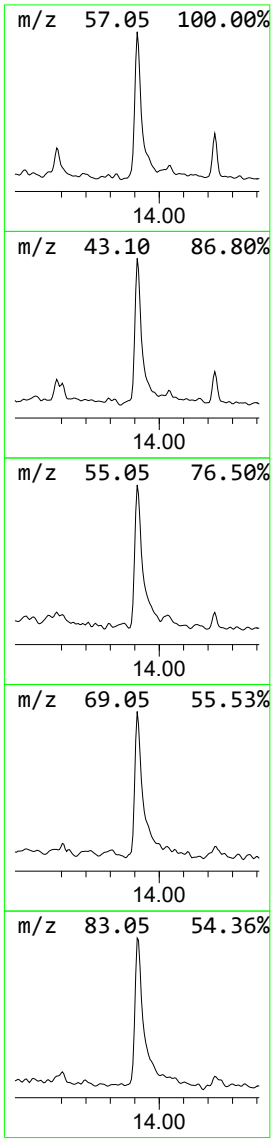
****

Peak Number 4 1-Hexacosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	3.52 ng	117217	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	93
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
3	Tricosyl heptafluorobutyrate	536	C27H47F7O2	1000351-83-4	91
4	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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-...	5.092	6.1	ng	119776	1	6.898	390414	20.0
Benzophenone	10.651	4.9	ng	143288	3	9.933	587194	20.0
n-Hexadecanoic ...	11.945	4.7	ng	152975	4	11.422	656874	20.0
1-Hexacosene	13.910	3.5	ng	117217	5	14.068	666613	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Time: May 23 01:22:37 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

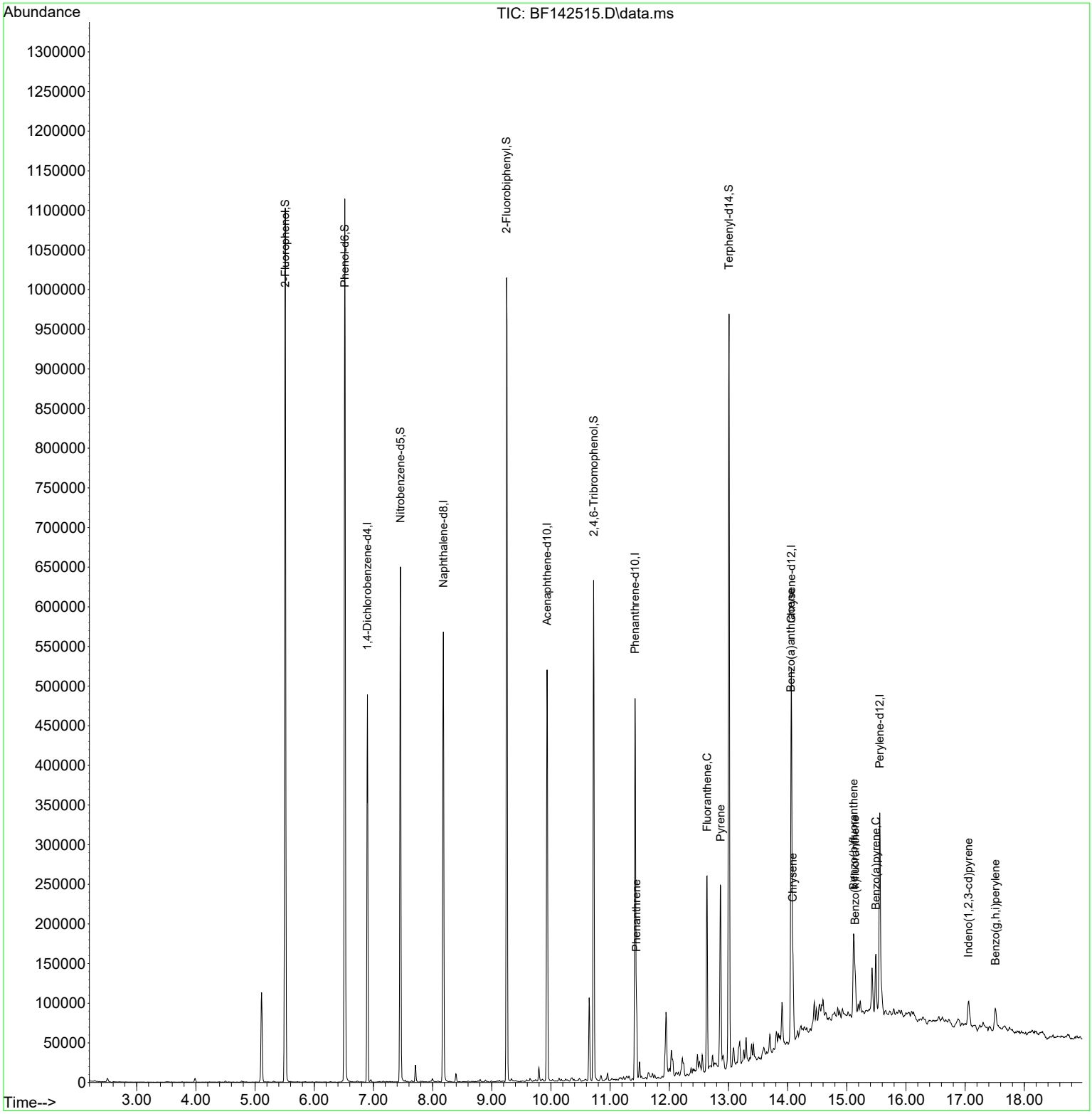
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105109	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	356070	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	155651	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	248584	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	190159	20.000	ng	-0.01
86) Perylene-d12	15.557	264	152099	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	414930	66.508	ng	0.00
7) Phenol-d6	6.516	99	503390	67.029	ng	-0.02
23) Nitrobenzene-d5	7.457	82	267452	40.958	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	105901	61.302	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	459619	39.624	ng	-0.02
79) Terphenyl-d14	13.010	244	460591	33.100	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.445	178	50563	3.806	ng	99
75) Fluoranthene	12.639	202	145071	11.687	ng	99
78) Pyrene	12.869	202	141308	7.966	ng	99
81) Benzo(a)anthracene	14.057	228	60130m	4.735	ng	
83) Chrysene	14.086	228	60922m	5.339	ng	
87) Indeno(1,2,3-cd)pyrene	17.057	276	26567	2.327	ng	96
88) Benzo(b)fluoranthene	15.116	252	77029m	8.557	ng	
89) Benzo(k)fluoranthene	15.139	252	17854m	2.118	ng	
90) Benzo(a)pyrene	15.492	252	45711	5.387	ng	97
92) Benzo(g,h,i)perylene	17.515	276	26352	2.845	ng	95

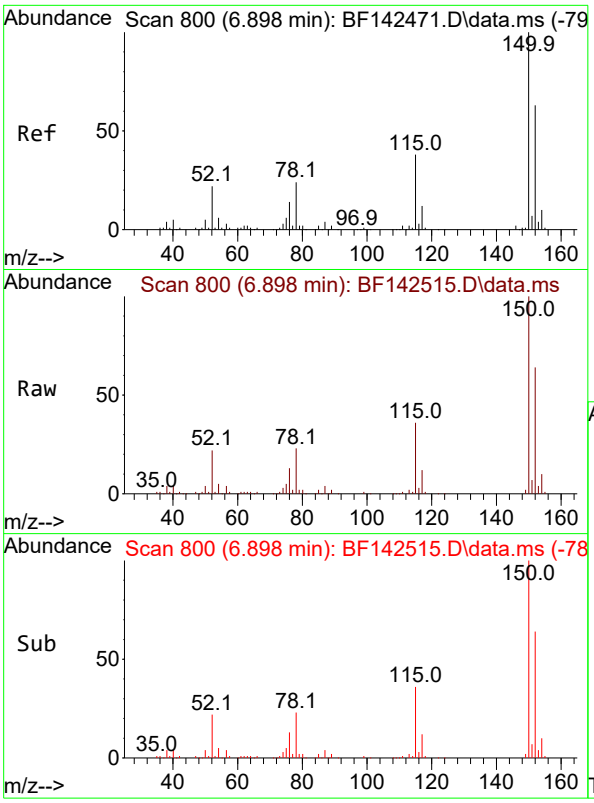
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Time: May 23 01:22:37 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



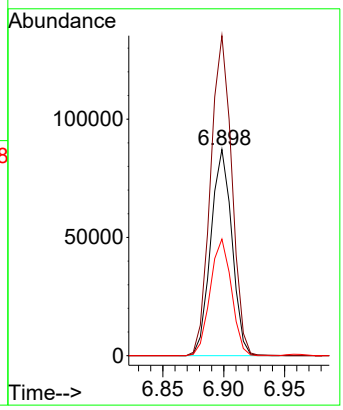


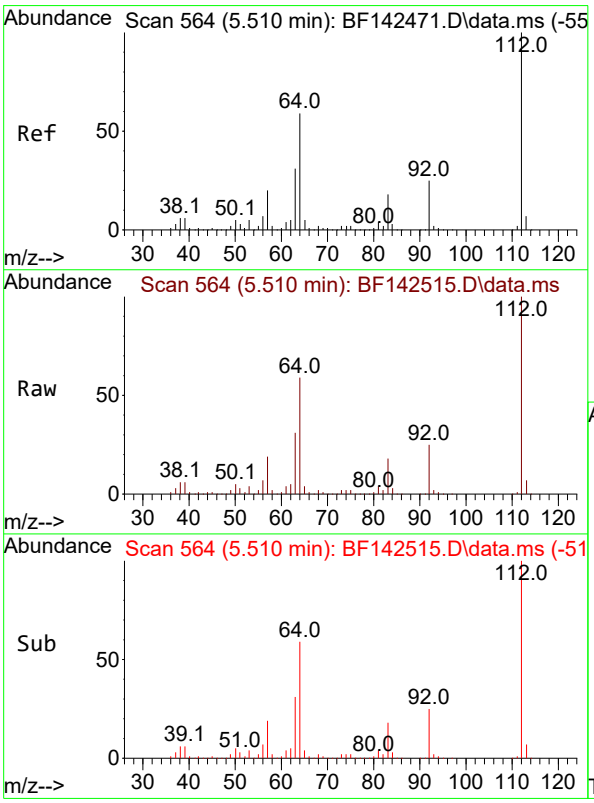
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:152 Resp: 105109

Ion	Ratio	Lower	Upper
152	100		
150	155.2	128.2	192.4
115	56.6	48.3	72.5

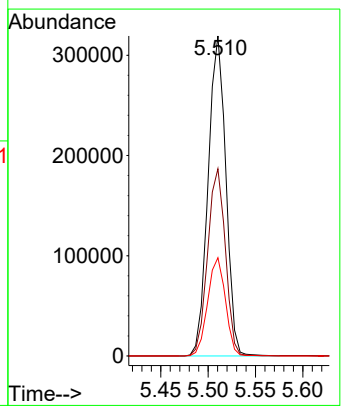


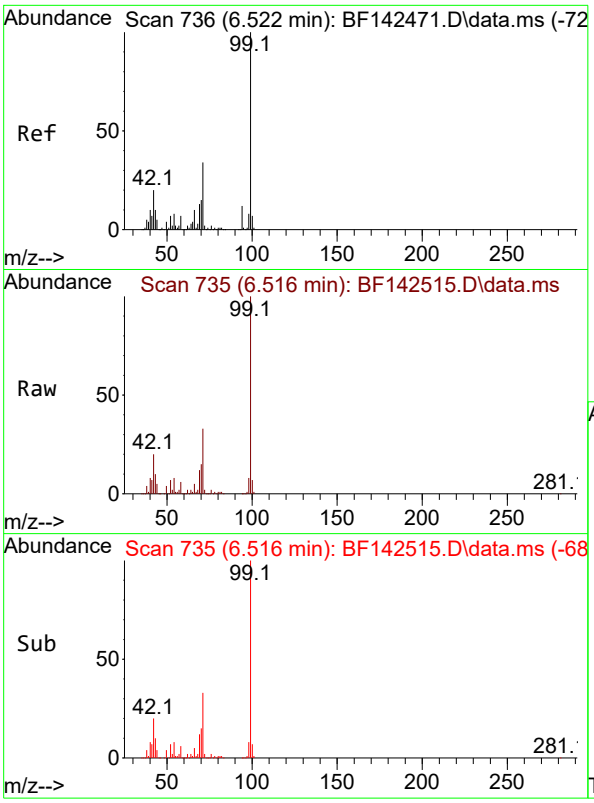


#5
2-Fluorophenol
Concen: 66.508 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:112 Resp: 414930

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.5	71.3
63	30.7	24.9	37.3



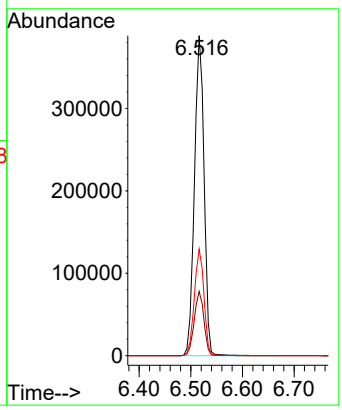


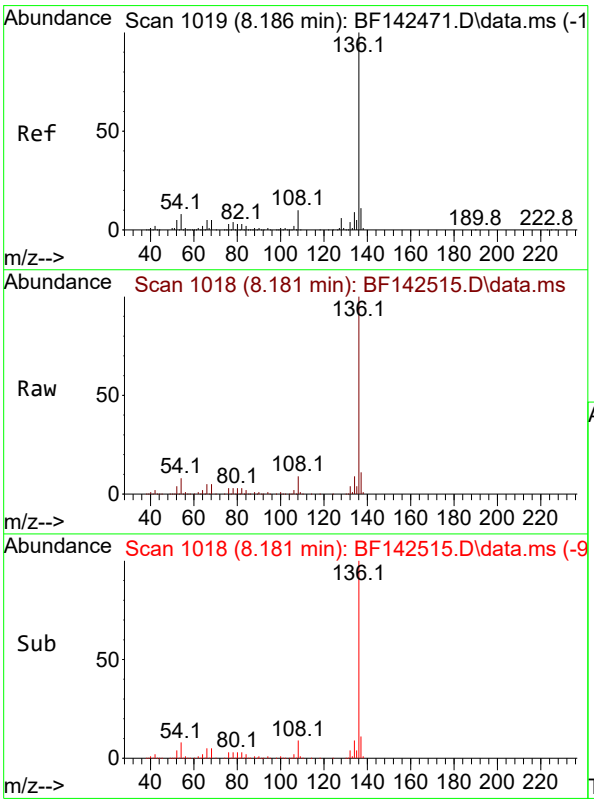
#7
Phenol-d6
Concen: 67.029 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion: 99 Resp: 503390

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.3	27.3	40.9

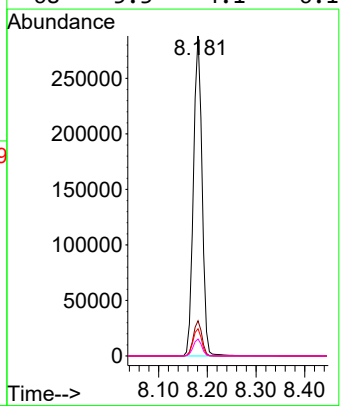


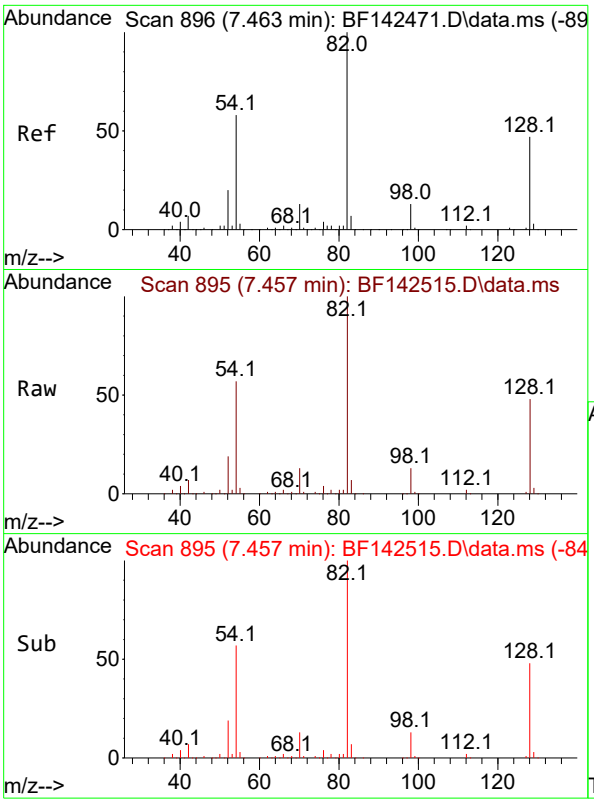


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:136 Resp: 356070

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.5	6.6	10.0
68	5.3	4.1	6.1



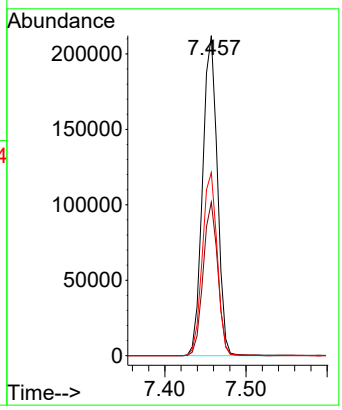


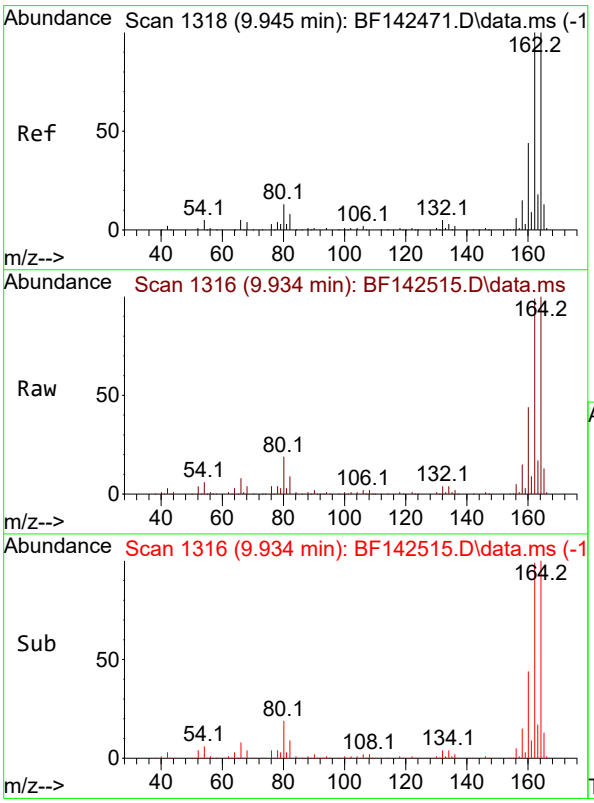
#23
Nitrobenzene-d5
Concen: 40.958 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion: 82 Resp: 267452

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	57.2	46.6	70.0

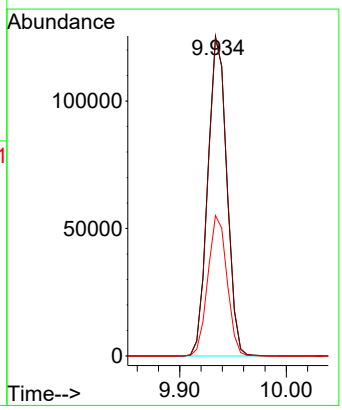


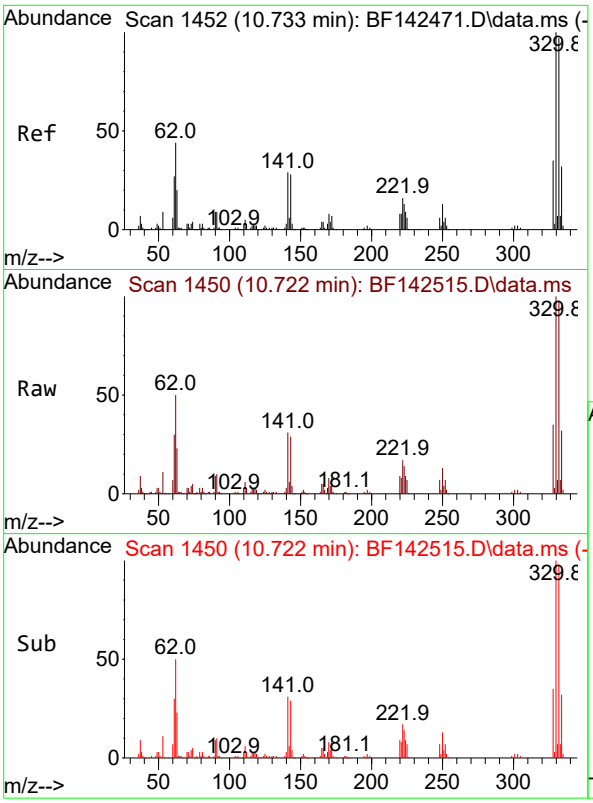


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:164 Resp: 155651

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.2	120.4
160	43.9	35.6	53.4



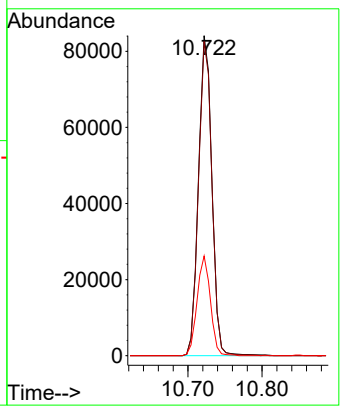


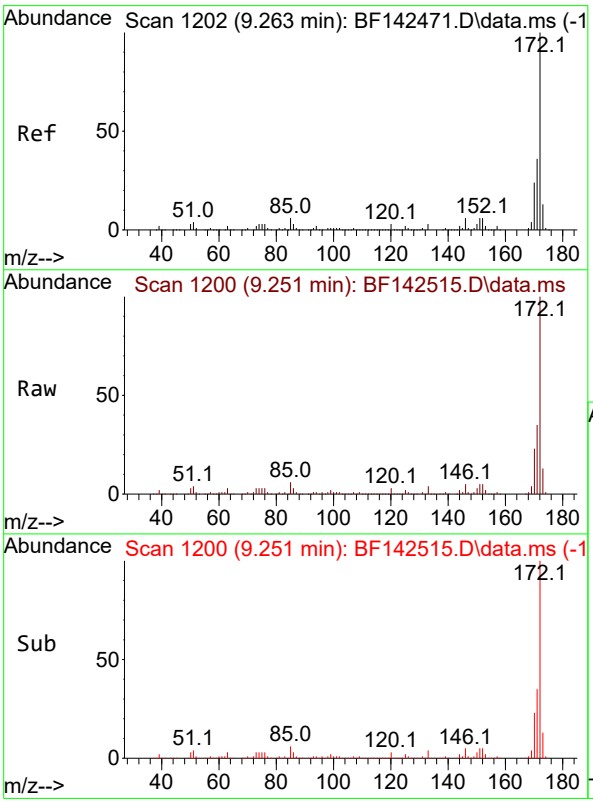
#42
2,4,6-Tribromophenol
Concen: 61.302 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:330 Resp: 105901

Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.6	116.4
141	30.9	24.6	36.8

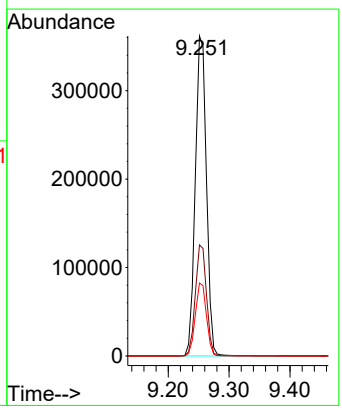


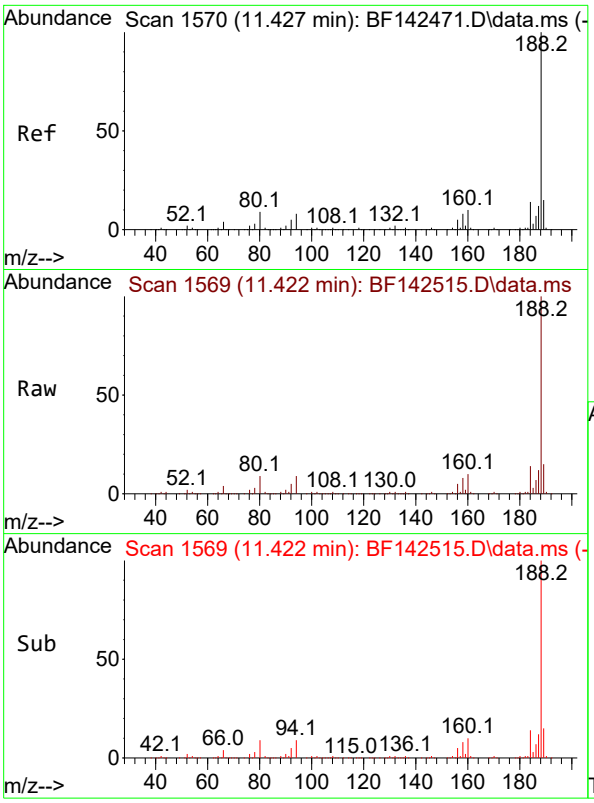


#45
2-Fluorobiphenyl
Concen: 39.624 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:172 Resp: 459619

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	22.8	18.9	28.3



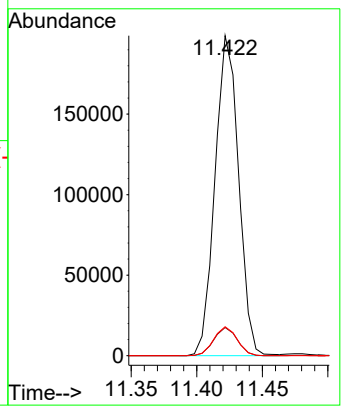


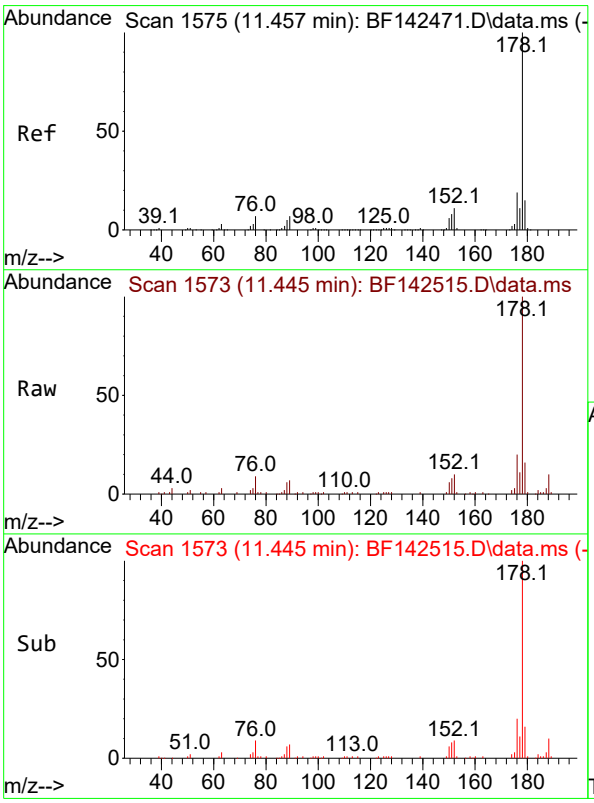
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:188 Resp: 248584

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.0	7.4	11.0

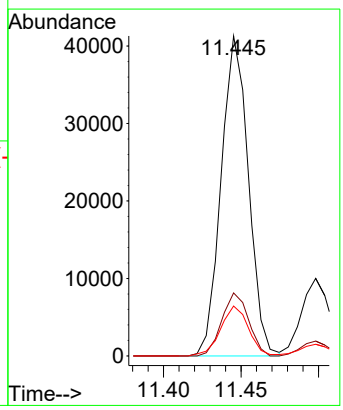


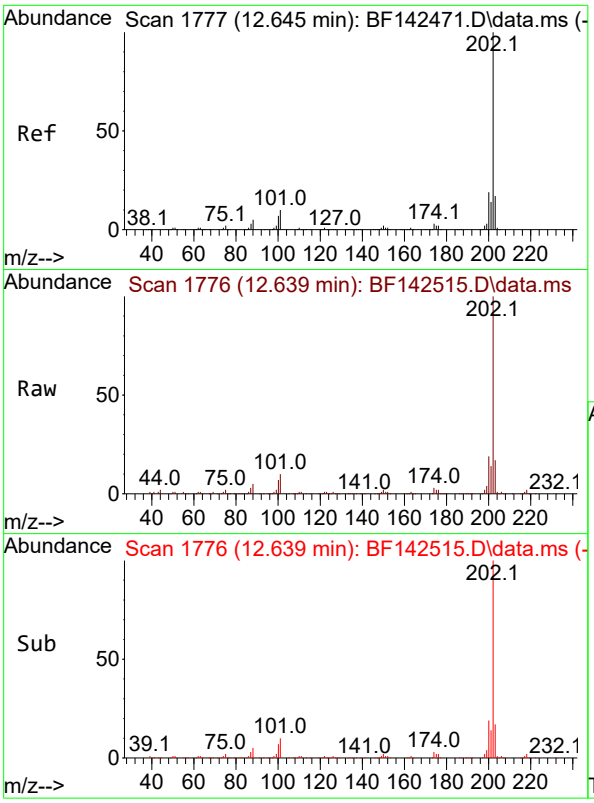


#71
Phenanthrene
Concen: 3.806 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:178 Resp: 50563

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.0
179	15.6	12.3	18.5



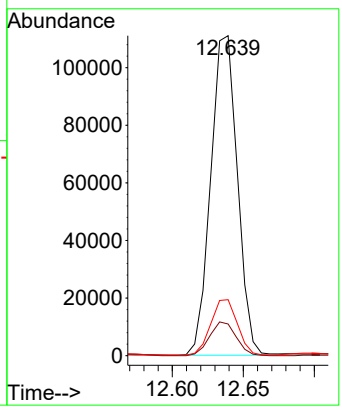


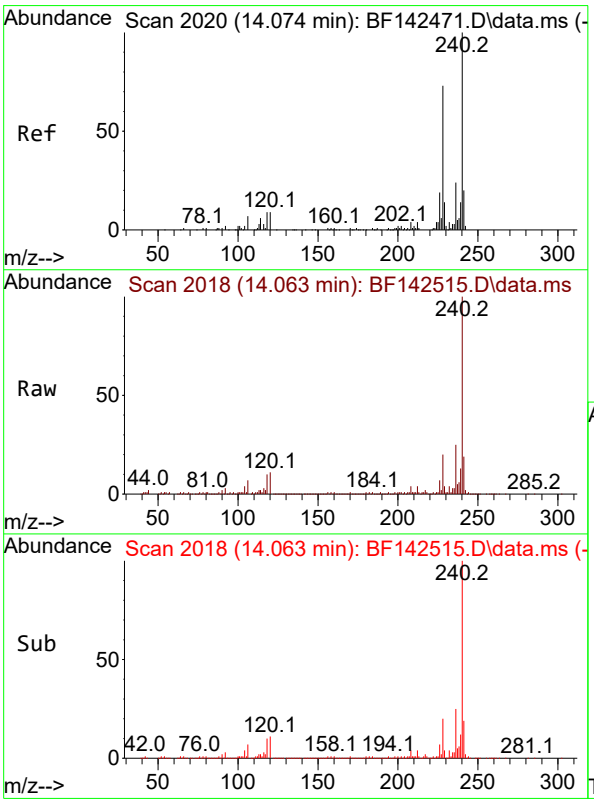
#75
Fluoranthene
Concen: 11.687 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:202 Resp: 145071

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.6
203	17.5	0.0	37.2

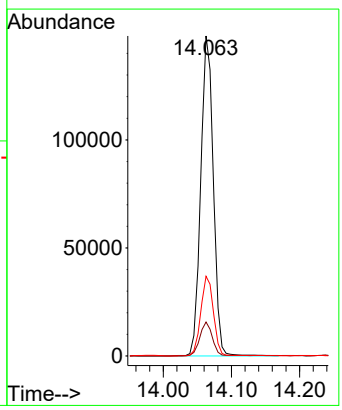


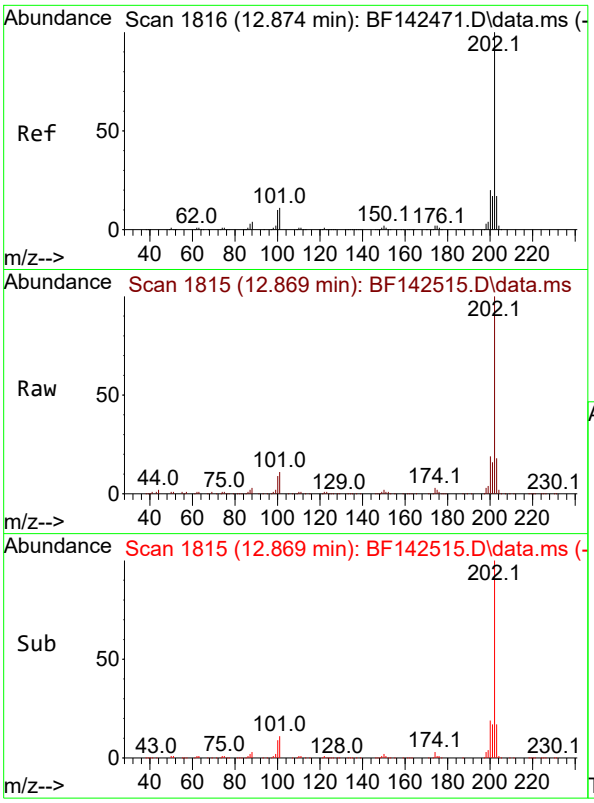


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:240 Resp: 190159

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



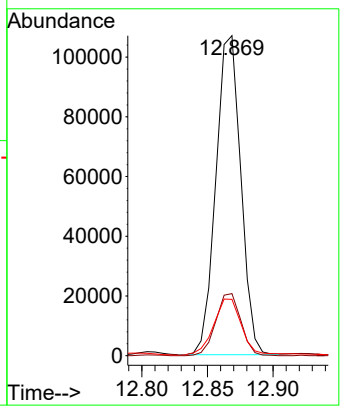


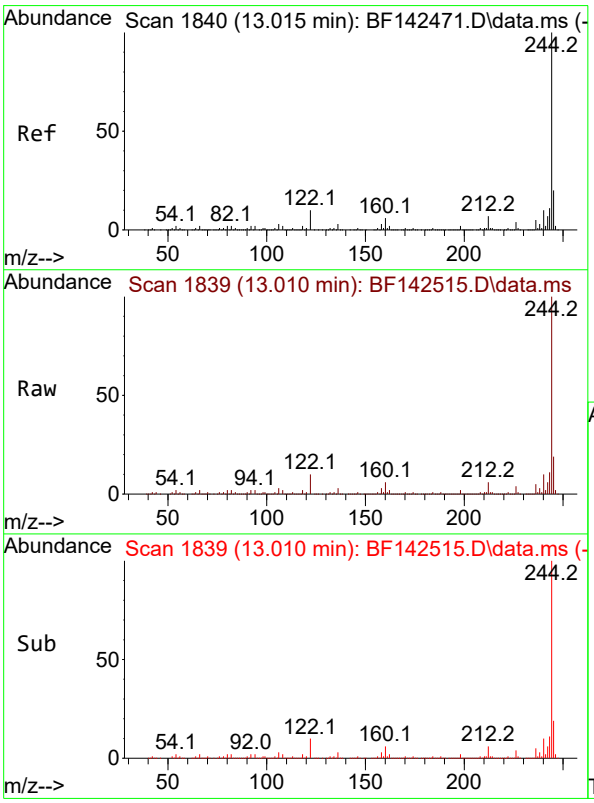
#78
Pyrene
Concen: 7.966 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:202 Resp: 141308

Ion	Ratio	Lower	Upper
202	100		
200	19.4	16.1	24.1
203	17.6	13.9	20.9

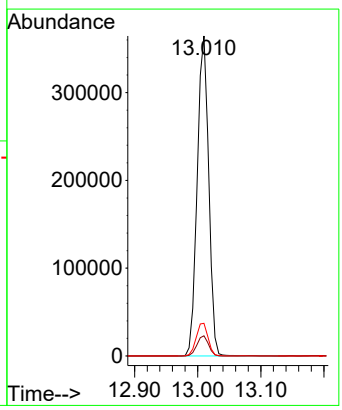


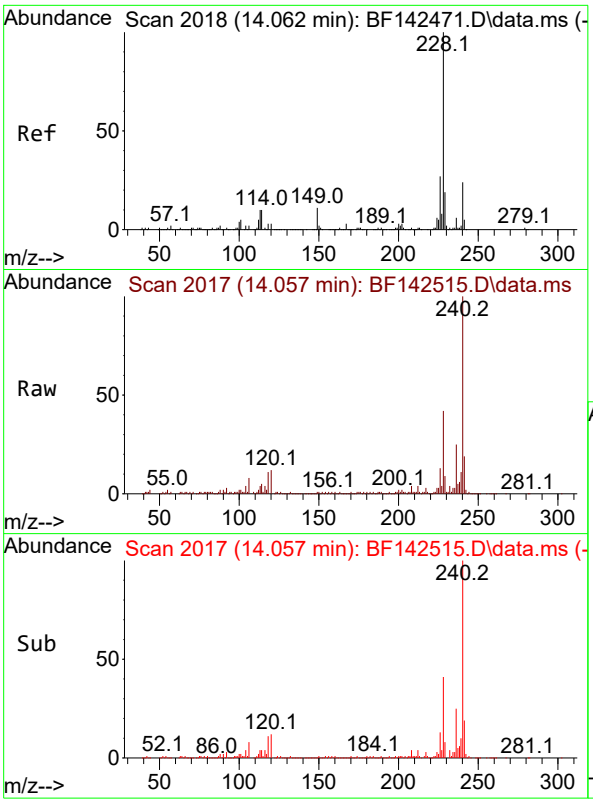


#79
Terphenyl-d14
Concen: 33.100 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:244 Resp: 460591

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	10.2	8.2	12.2



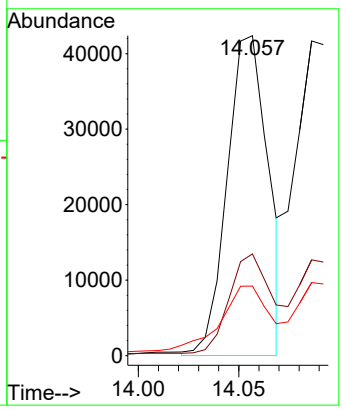


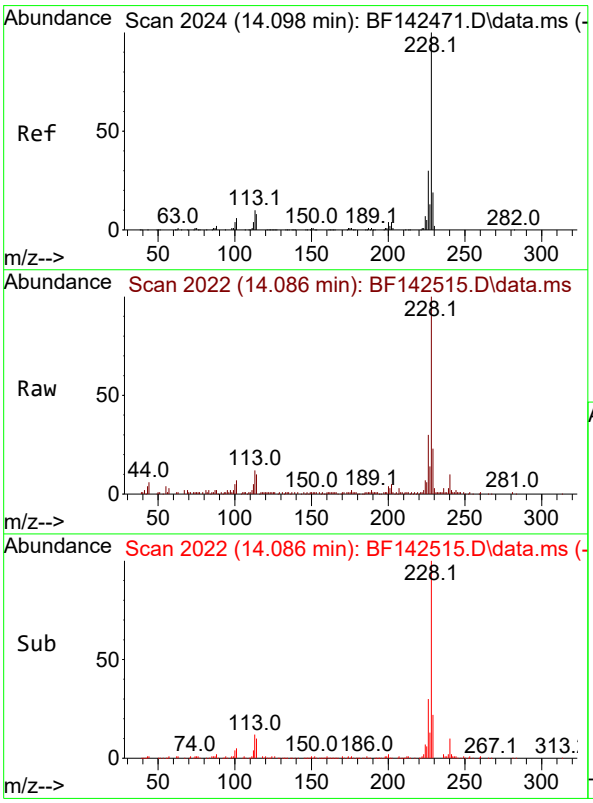
#81
Benzo(a)anthracene
Concen: 4.735 ng m
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:228 Resp: 60130

Ion	Ratio	Lower	Upper
228	100		
226	31.8	21.2	31.8#
229	21.7	15.5	23.3

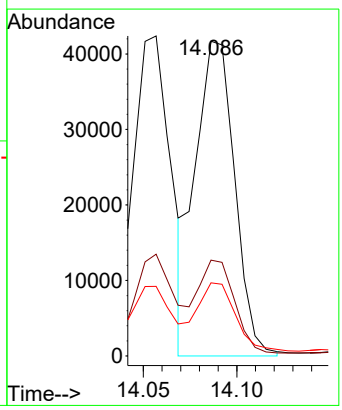


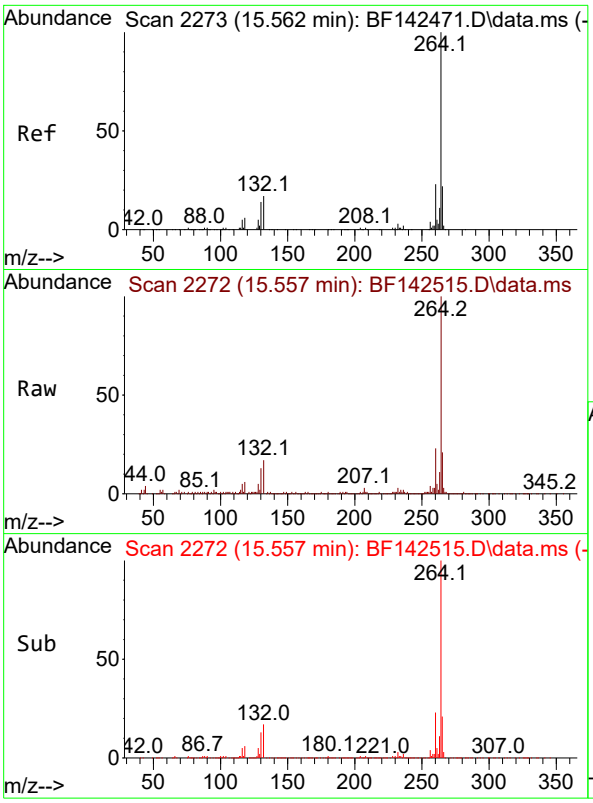


#83
Chrysene
Concen: 5.339 ng m
RT: 14.086 min Scan# 2022
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:228 Resp: 60922

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.6
229	23.2	15.4	23.2#



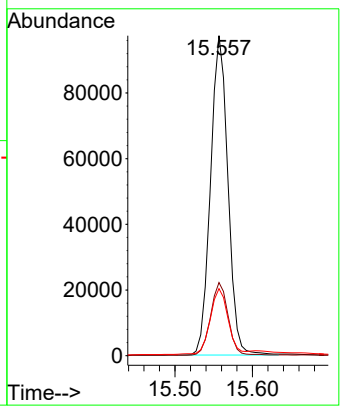


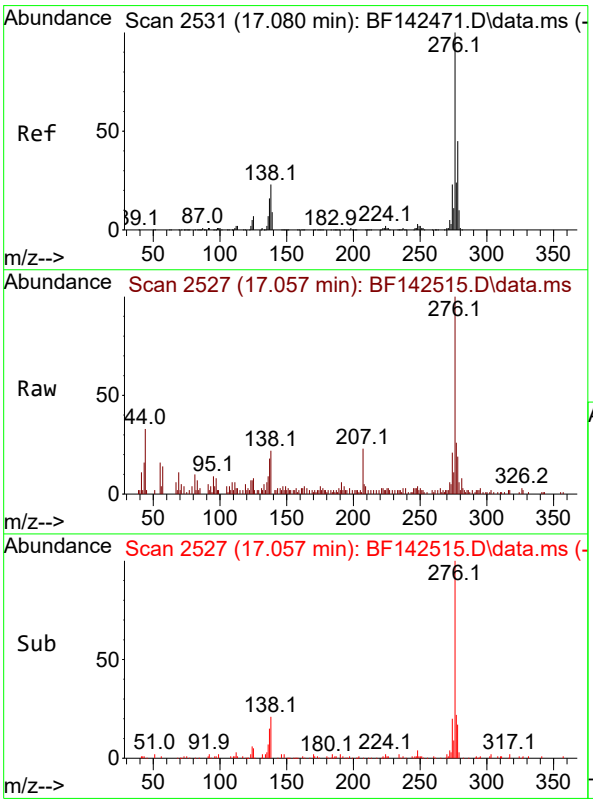
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:264 Resp: 152099

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.0	17.7	26.5

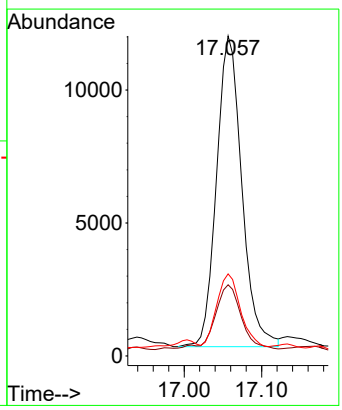


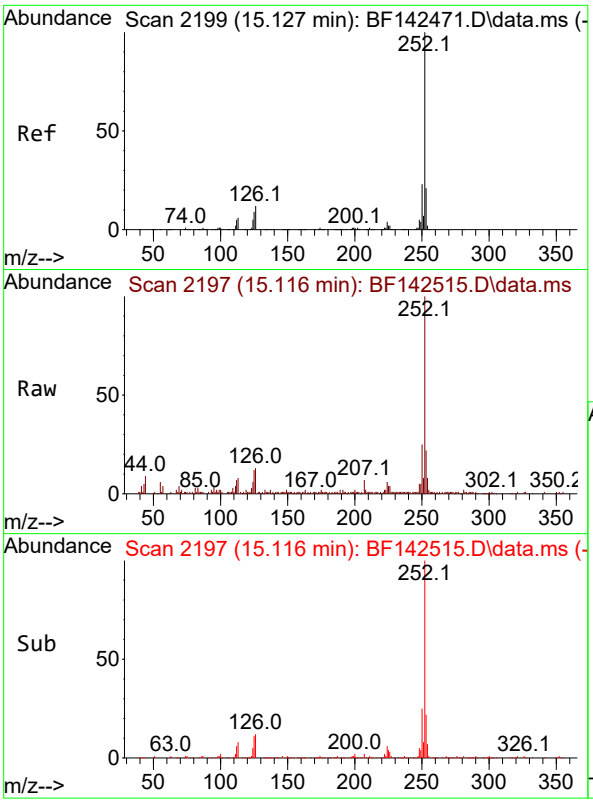


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.327 ng
RT: 17.057 min Scan# 2527
Delta R.T. -0.035 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:276 Resp: 26567

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.9	29.9
277	23.2	20.2	30.2



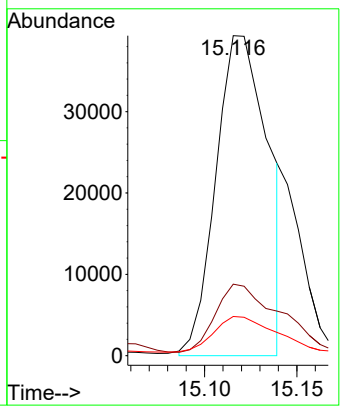


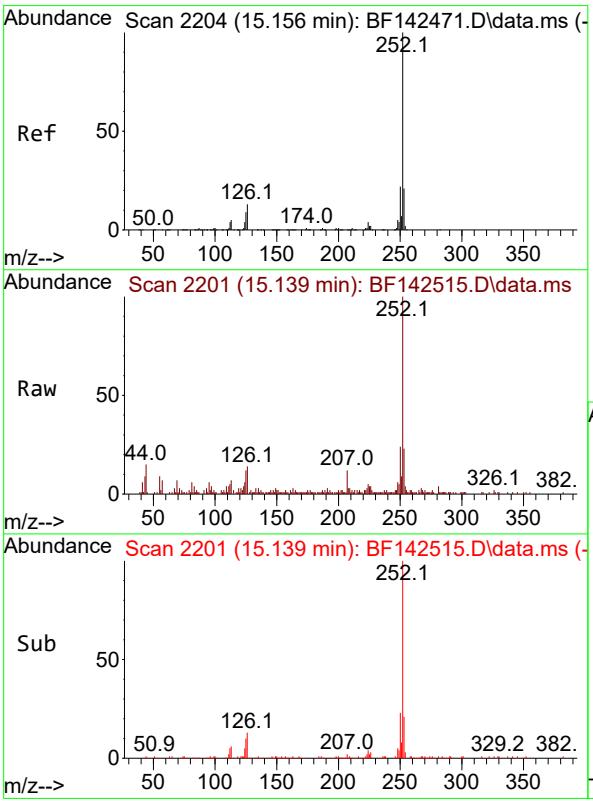
#88
Benzo(b)fluoranthene
Concen: 8.557 ng m
RT: 15.116 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:252 Resp: 77029

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	12.3	7.4	11.0#

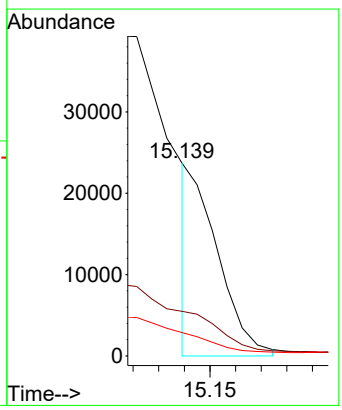


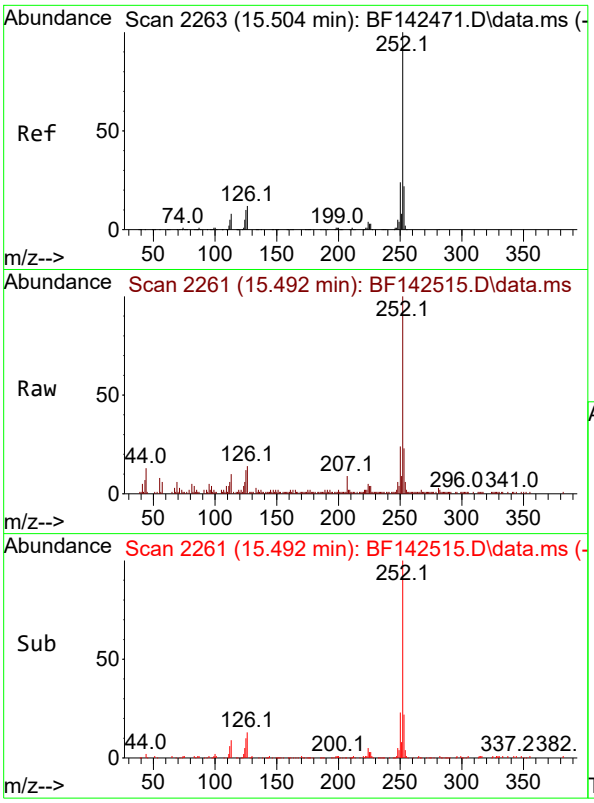


#89
Benzo(k)fluoranthene
Concen: 2.118 ng m
RT: 15.139 min Scan# 2201
Delta R.T. -0.023 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:252 Resp: 17854

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.4
125	12.2	7.3	10.9#



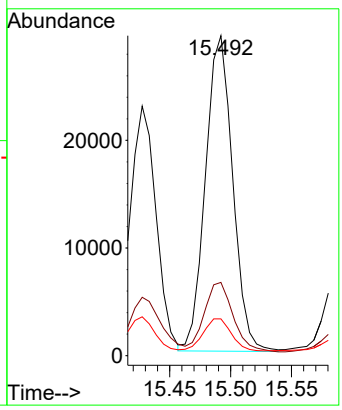


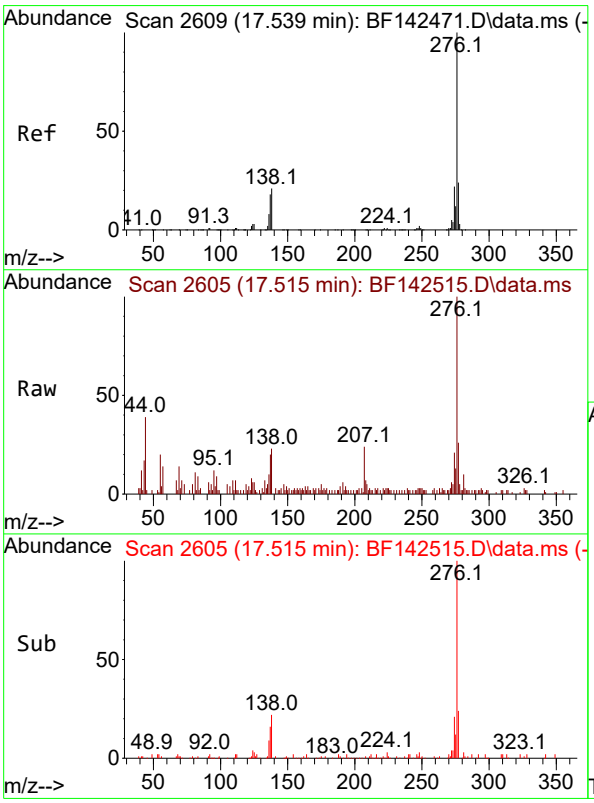
#90
Benzo(a)pyrene
Concen: 5.387 ng
RT: 15.492 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:252 Resp: 45711

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	11.5	7.9	11.9

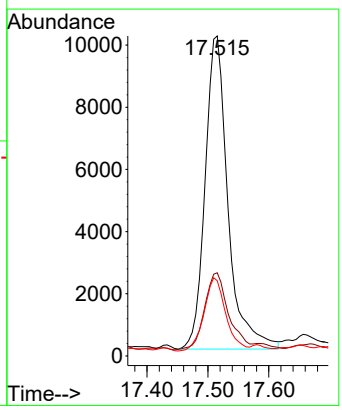




#92
Benzo(g,h,i)perylene
Concen: 2.845 ng
RT: 17.515 min Scan# 2605
Delta R.T. -0.041 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:276 Resp: 26352

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.2	28.8
138	23.5	16.8	25.2



Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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: BF142515.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	488	496	504	rBV	113098	163668	11.23%	1.241%
2	5.510	558	564	569	rBV	1102276	1430726	98.18%	10.847%
3	6.516	729	735	747	rVB	1113114	1457269	100.00%	11.048%
4	6.898	795	800	805	rBV	488666	590881	40.55%	4.480%
5	7.457	889	895	900	rBV	649724	816688	56.04%	6.191%
6	7.710	933	938	947	rVB	21602	27805	1.91%	0.211%
7	8.181	1012	1018	1026	rBV	567463	703045	48.24%	5.330%
8	9.251	1195	1200	1206	rBV	1014168	1269819	87.14%	9.627%
9	9.798	1288	1293	1299	rBV	17050	21585	1.48%	0.164%
10	9.934	1311	1316	1321	rBV	518219	642285	44.07%	4.869%
11	10.645	1432	1437	1445	rBV	104676	130805	8.98%	0.992%
12	10.722	1445	1450	1455	rBV	630967	781827	53.65%	5.927%
13	11.422	1564	1569	1578	rBV2	480896	718276	49.29%	5.445%
14	11.498	1578	1582	1585	rVV	19862	23172	1.59%	0.176%
15	11.645	1602	1607	1615	rBV4	7909	18899	1.30%	0.143%
16	11.945	1650	1658	1664	rBV2	81931	157421	10.80%	1.193%
17	12.033	1670	1673	1683	rVB3	32176	68963	4.73%	0.523%
18	12.222	1697	1705	1707	rBV2	22100	39677	2.72%	0.301%
19	12.475	1744	1748	1751	rBV	20349	25015	1.72%	0.190%
20	12.510	1751	1754	1759	rVV3	10769	16906	1.16%	0.128%
21	12.557	1759	1762	1768	rVB	21917	28320	1.94%	0.215%
22	12.639	1770	1776	1780	rBV	246950	330730	22.70%	2.507%
23	12.733	1788	1792	1795	rBV	14596	17453	1.20%	0.132%
24	12.863	1807	1814	1819	rBV	228921	342671	23.51%	2.598%
25	13.010	1831	1839	1845	rBV	950779	1240414	85.12%	9.404%
26	13.086	1847	1852	1858	rBV2	23892	44649	3.06%	0.338%
27	13.192	1863	1870	1874	rVB	27971	59543	4.09%	0.451%
28	13.263	1878	1882	1884	rVV	15741	21102	1.45%	0.160%
29	13.298	1884	1888	1895	rVB2	30070	45592	3.13%	0.346%
30	13.392	1900	1904	1907	rVV	18974	23425	1.61%	0.178%
31	13.422	1907	1909	1914	rVB	16104	17777	1.22%	0.135%
32	13.698	1953	1956	1962	rVB	22951	31608	2.17%	0.240%
33	13.810	1971	1975	1978	rBV2	21411	34158	2.34%	0.259%
34	13.904	1987	1991	2001	rVB3	53446	89231	6.12%	0.676%
35	14.063	2012	2018	2029	rBV2	470698	826875	56.74%	6.269%
36	14.451	2081	2084	2087	rVB	22066	25535	1.75%	0.194%

Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

37	15.116	2192	2197	2207	rBV	103409	247689	17.00%	1.878%
38	15.427	2246	2250	2256	rVB	55068	84726	5.81%	0.642%
39	15.492	2256	2261	2266	rVV	73873	117942	8.09%	0.894%
40	15.557	2267	2272	2284	rVB	254461	456477	31.32%	3.461%

Sum of corrected areas: 13190649

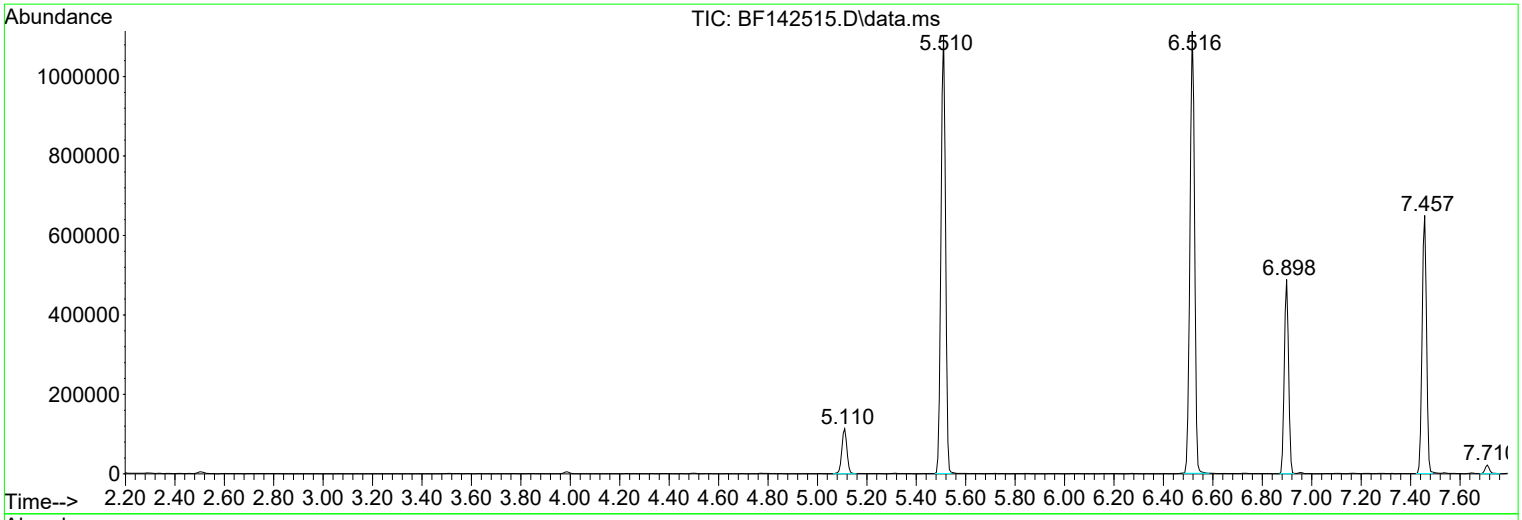
Sample Results: **BF142515.D**

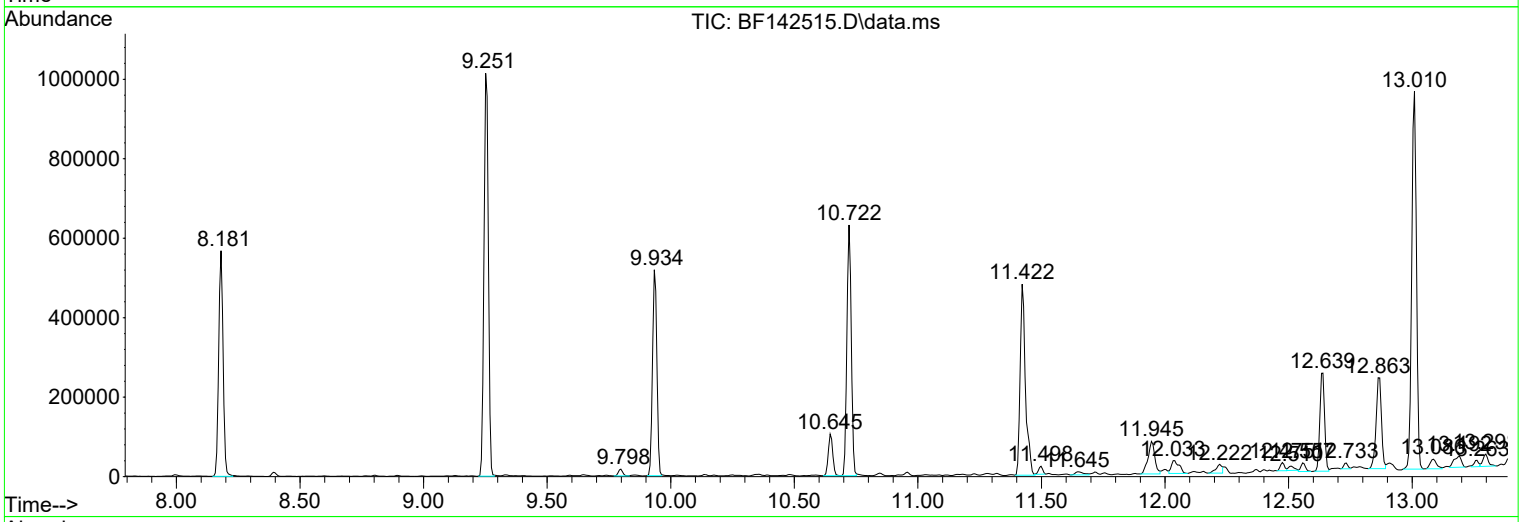
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

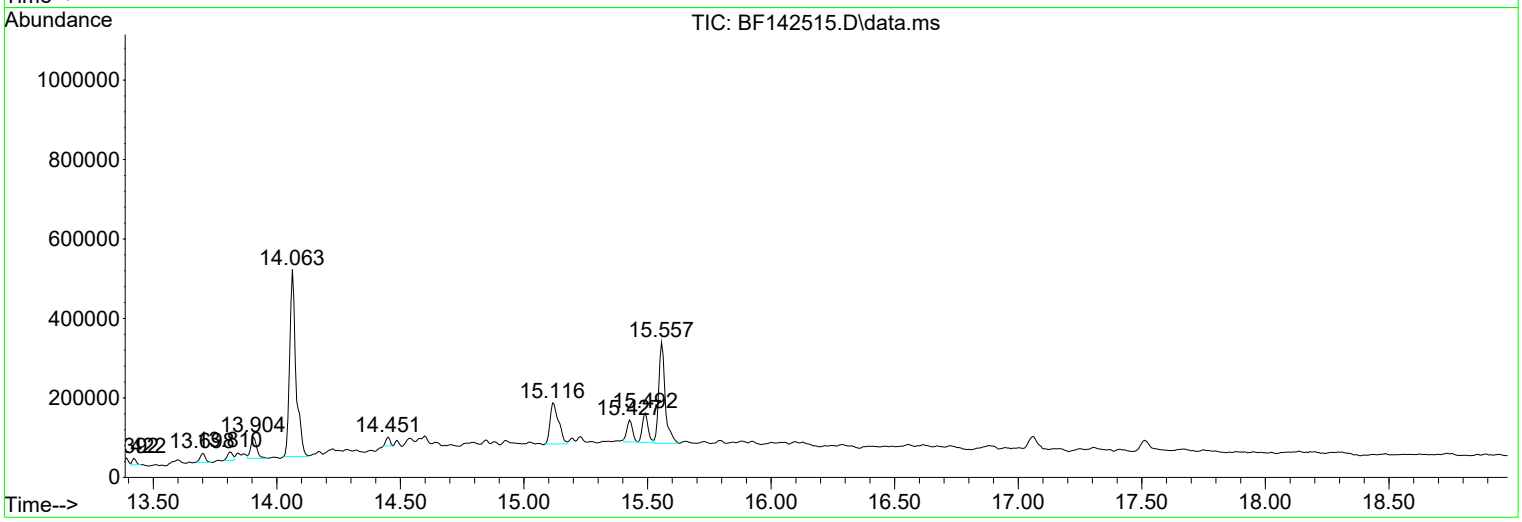
Instrument :
BNA_F
ClientSampleId :
TP-40

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\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

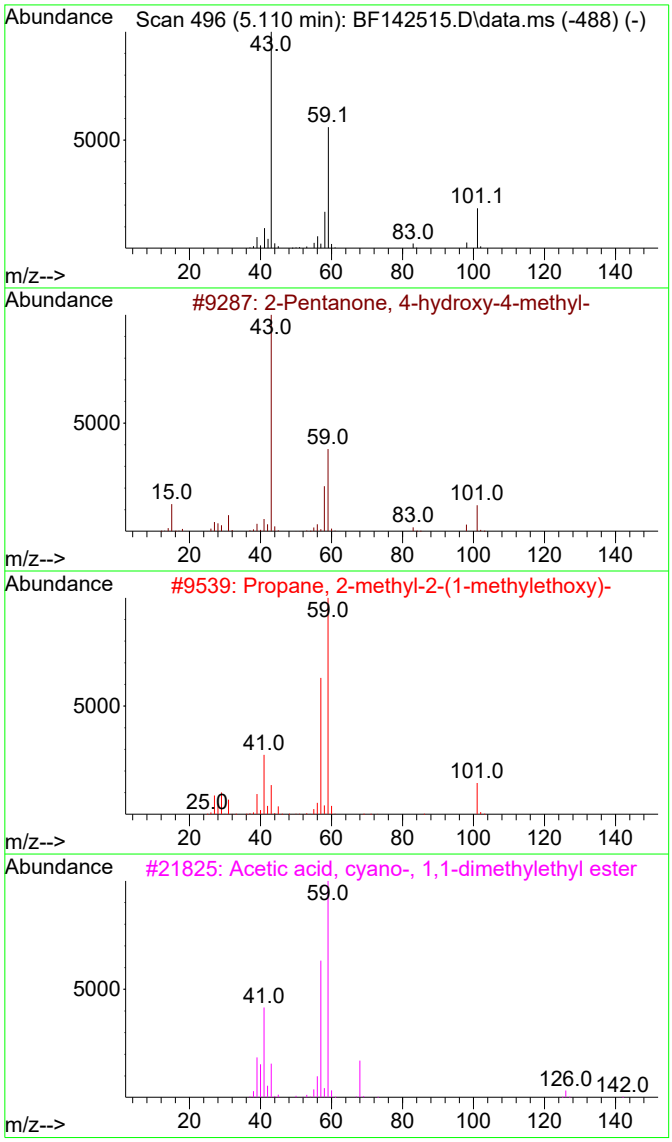
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

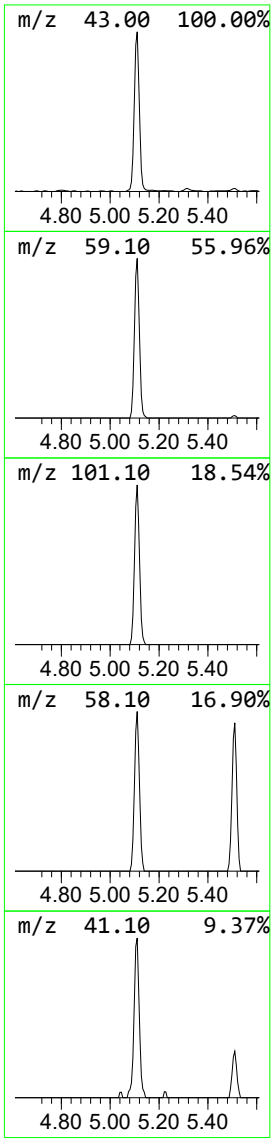
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.54 ng	163668	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	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

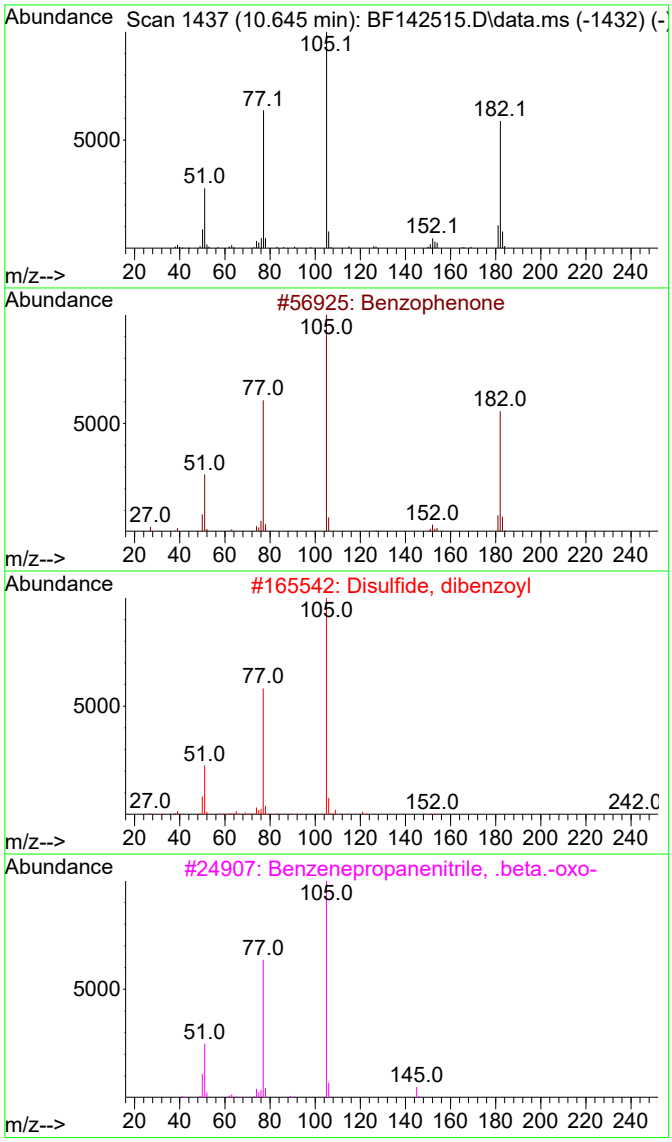
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

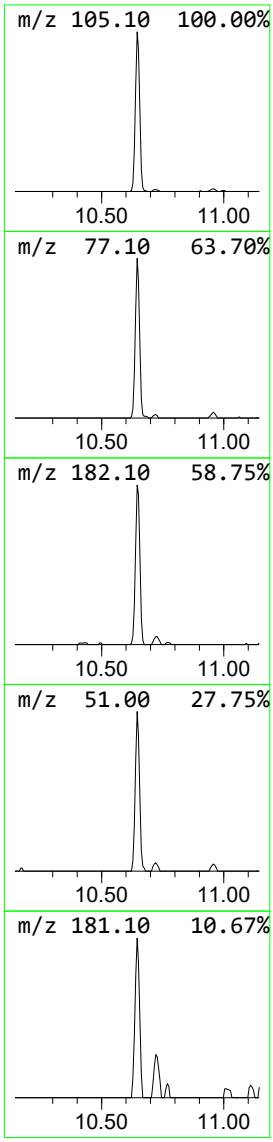
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.07 ng	130805	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
3	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	49
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

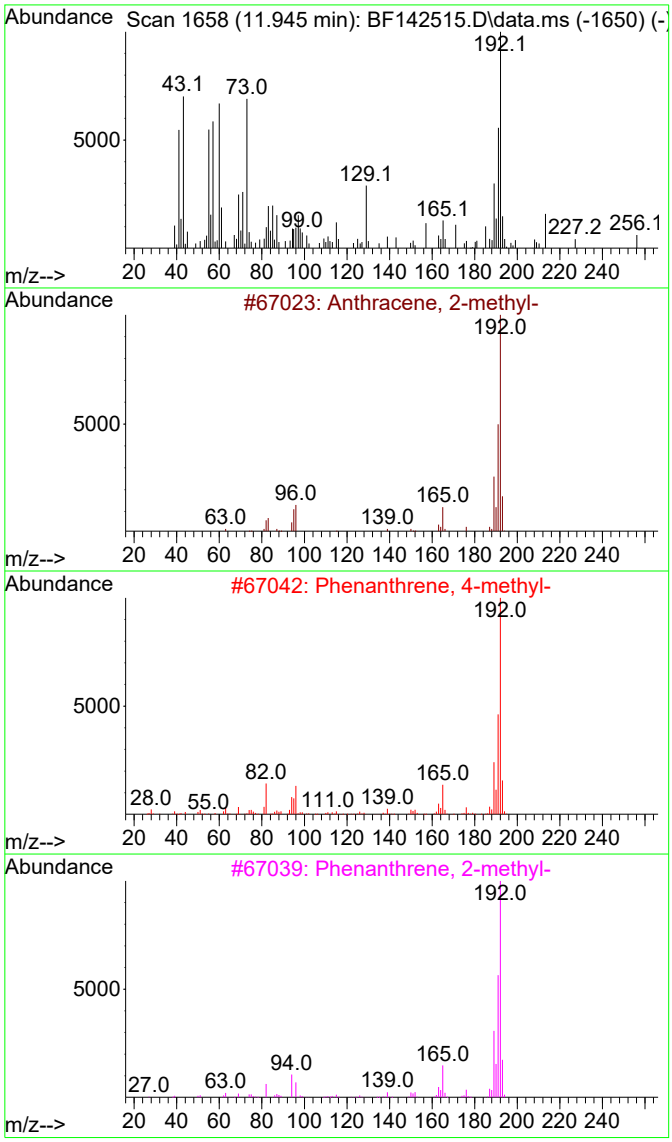
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

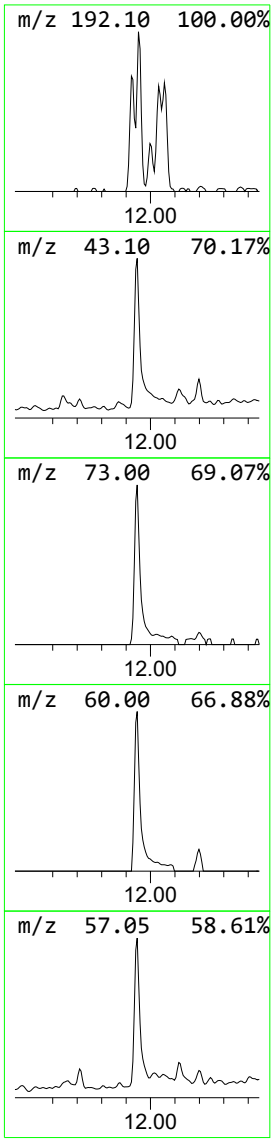
****

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.38 ng	157421	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	89
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	86





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On    : 22 May 2025  17:32
Operator  : RC/JU
Sample    : Q2074-07
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

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
```

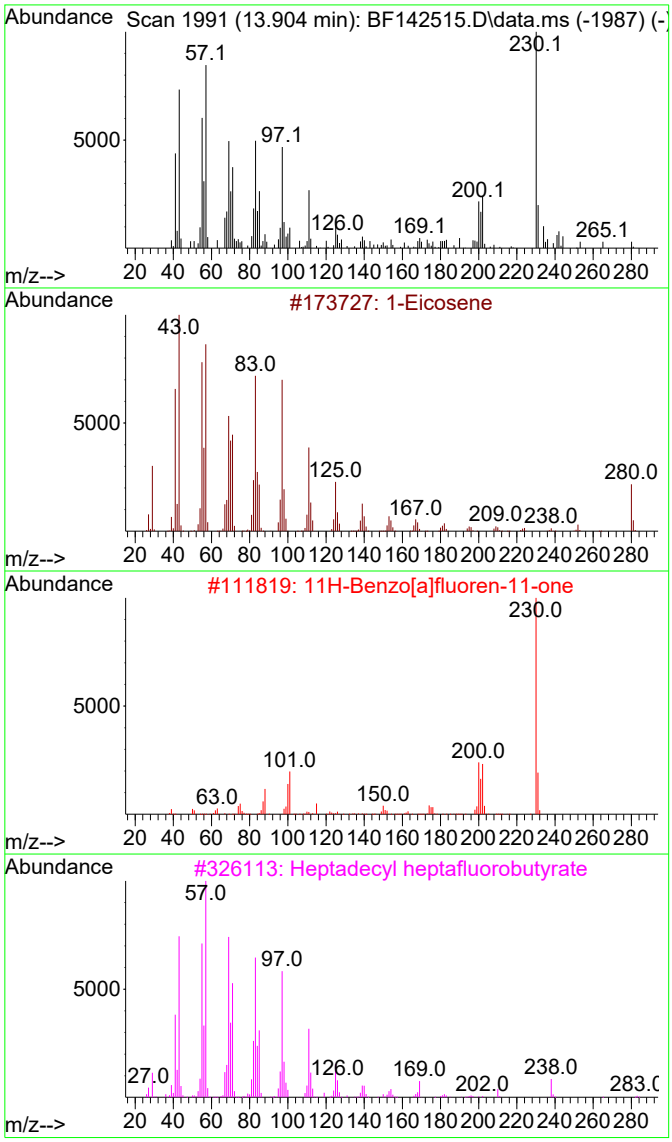
Instrument :
BNA_F
ClientSampleId :
TP-40

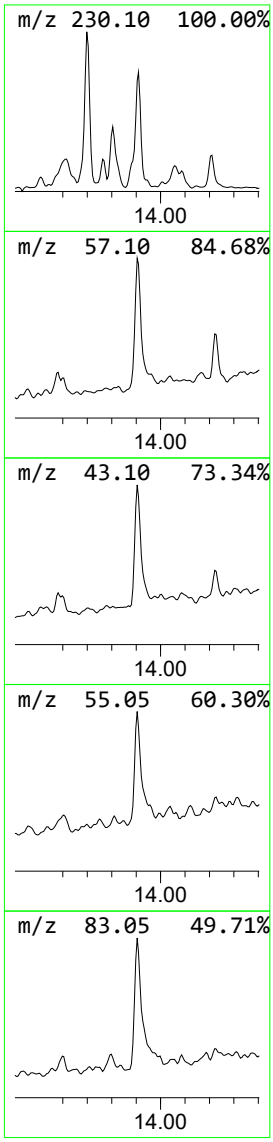
****

Peak Number 4 1-Eicosene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.16 ng	89231	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosene	280	C20H40	003452-07-1	83
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	64
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	56
4	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	55
5	Cycloeicosane	280	C20H40	000296-56-0	55





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

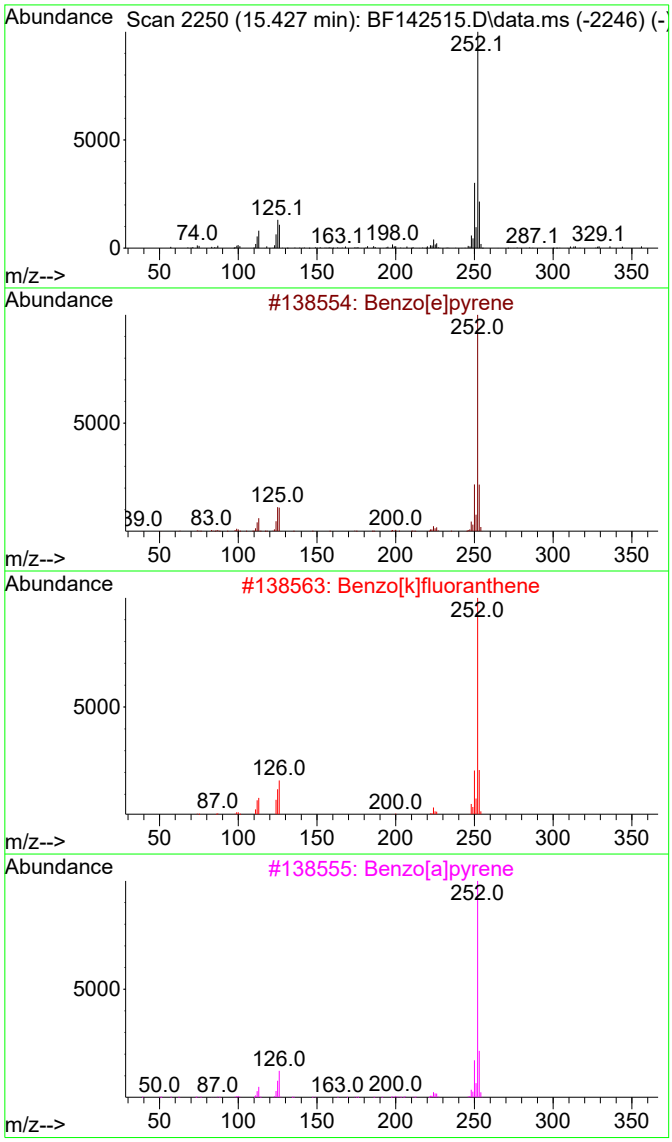
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

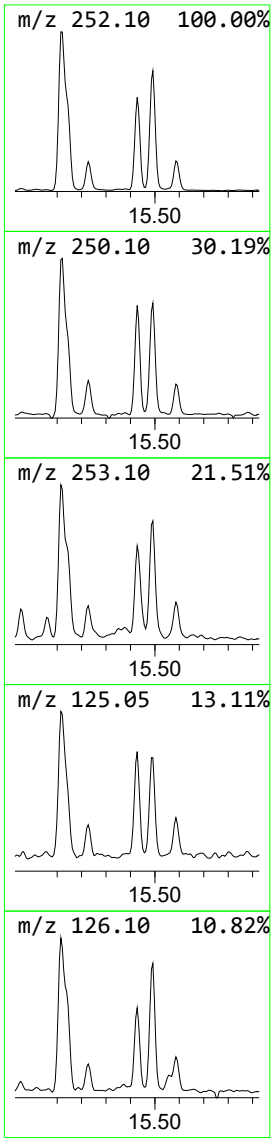
****

Peak Number 5 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.427	3.71 ng	84726	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	95
5	Perylene	252	C20H12	000198-55-0	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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	5.5	ng	163668	1	6.898	590881	20.0
Benzophenone	10.645	4.1	ng	130805	3	9.934	642285	20.0
Anthracene, 2-m...	11.945	4.4	ng	157421	4	11.422	718276	20.0
1-Eicosene	13.904	2.2	ng	89231	5	14.063	826875	20.0
Benzo[e]pyrene	15.427	3.7	ng	84726	6	15.557	456477	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Time: May 22 13:53:08 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

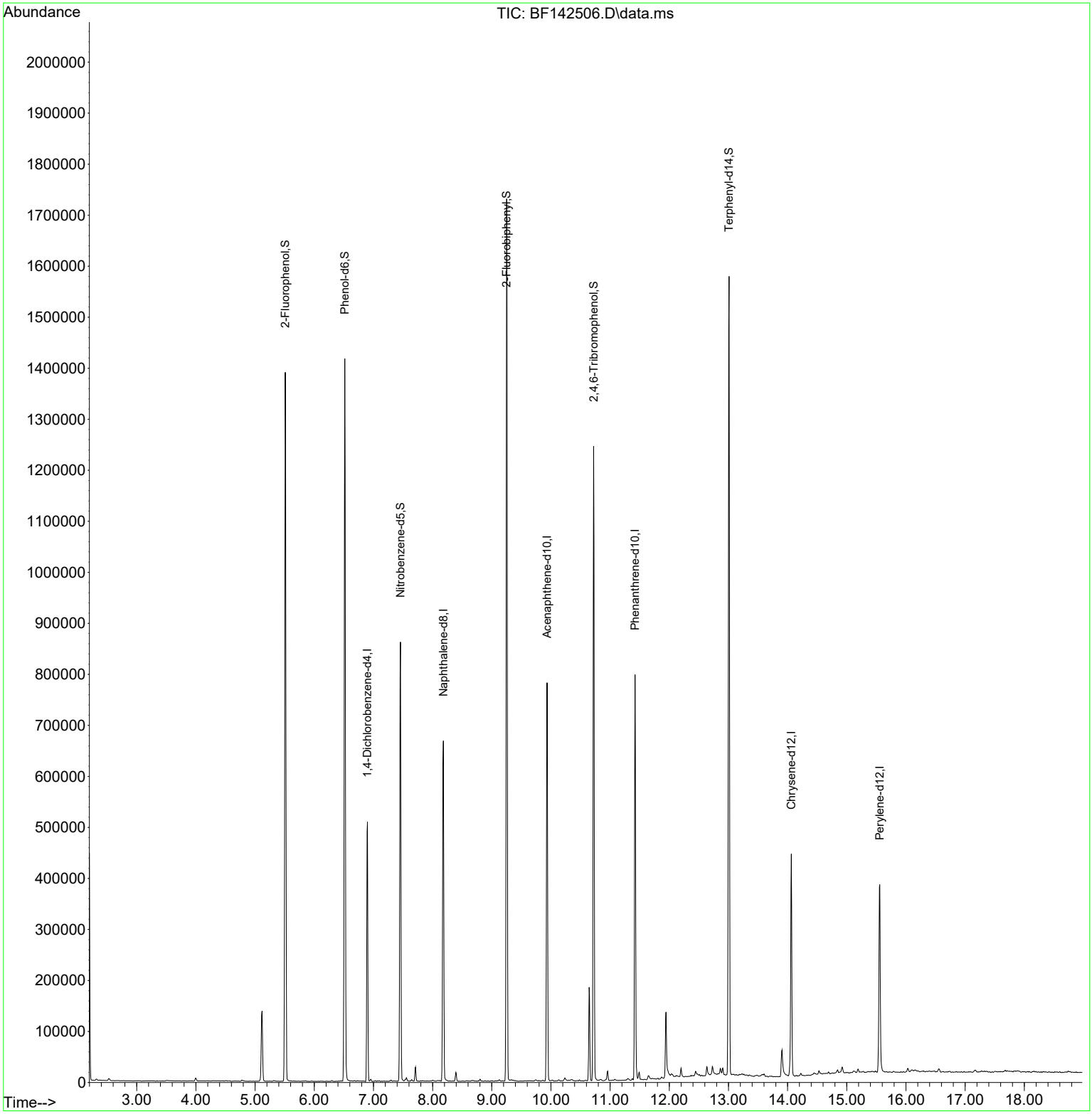
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	114998	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	438934	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	234734	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	406523	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	207782	20.000	ng	-0.01
86) Perylene-d12	15.557	264	225144	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	531675	77.892	ng	0.00
7) Phenol-d6	6.516	99	667202	81.201	ng	-0.02
23) Nitrobenzene-d5	7.457	82	369353	45.885	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	218064	83.702	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	785241	44.888	ng	-0.02
79) Terphenyl-d14	13.010	244	772849	50.829	ng	0.00
Target Compounds						Qvalue

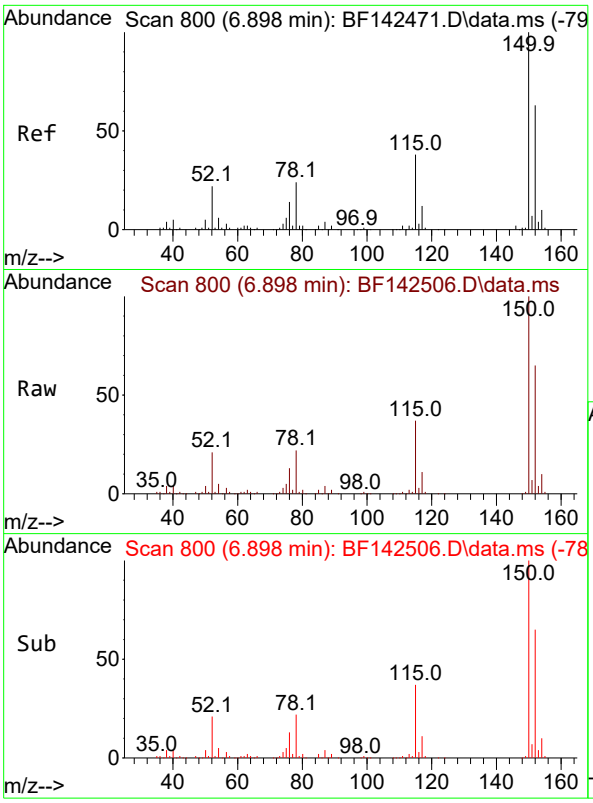
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Time: May 22 13:53:08 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



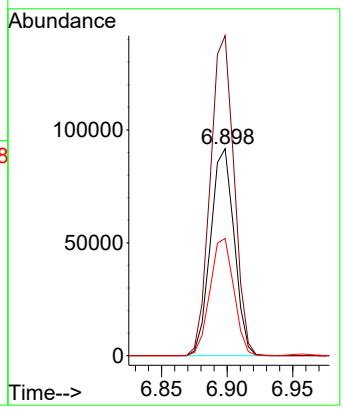


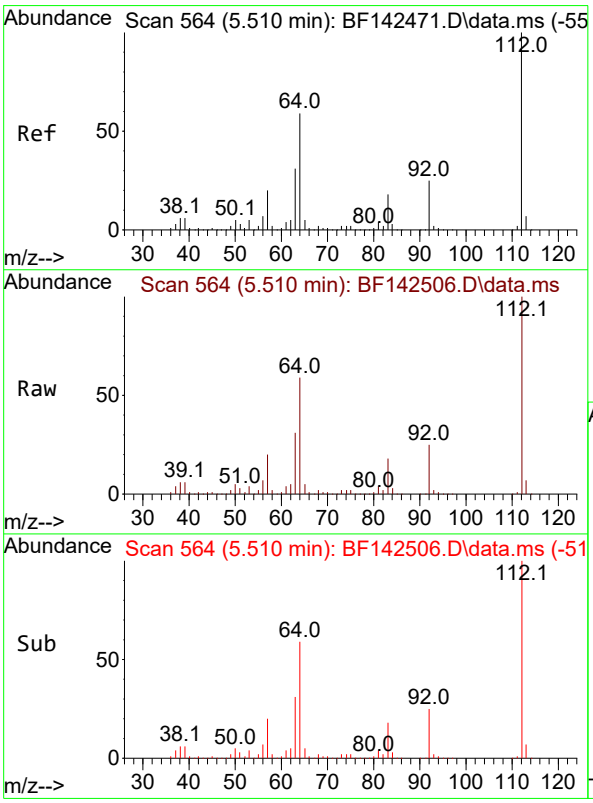
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:152 Resp: 114998

Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.2	192.4
115	56.6	48.3	72.5

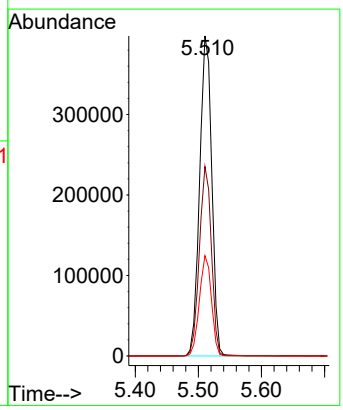


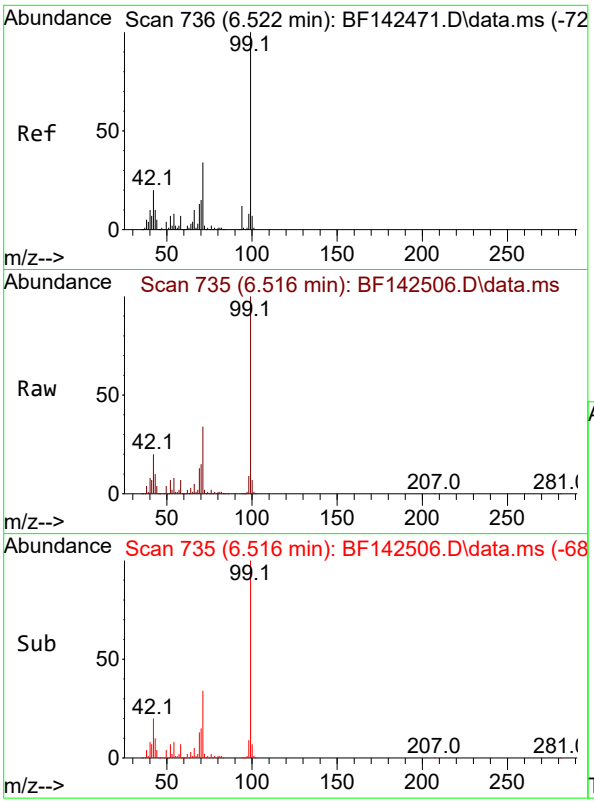


#5
2-Fluorophenol
Concen: 77.892 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:112 Resp: 531675

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	31.3	24.9	37.3



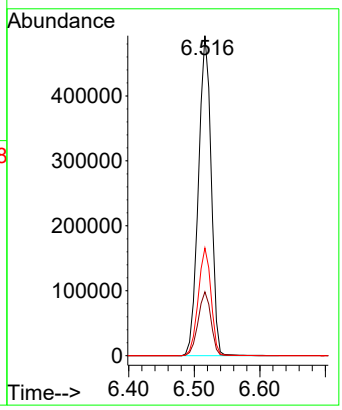


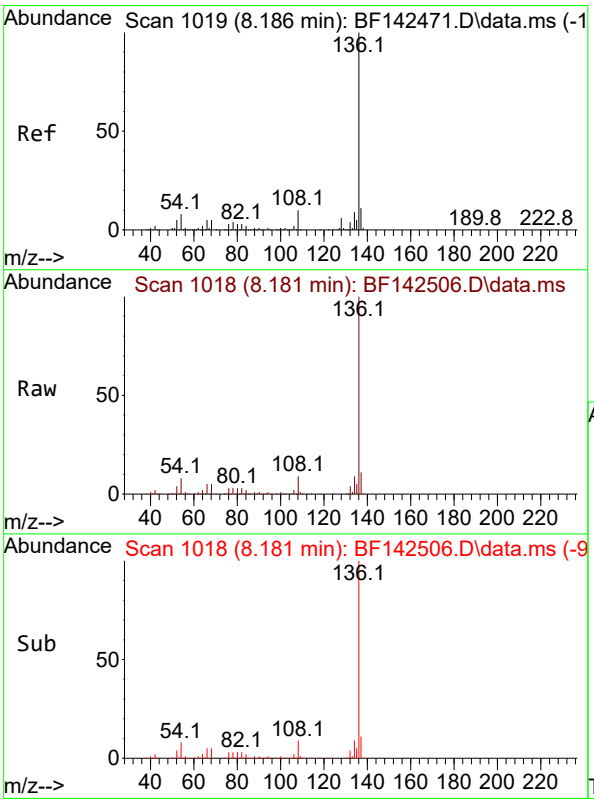
#7
Phenol-d6
Concen: 81.201 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion: 99 Resp: 667202

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.7	27.3	40.9

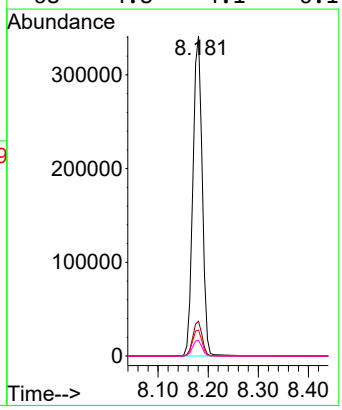


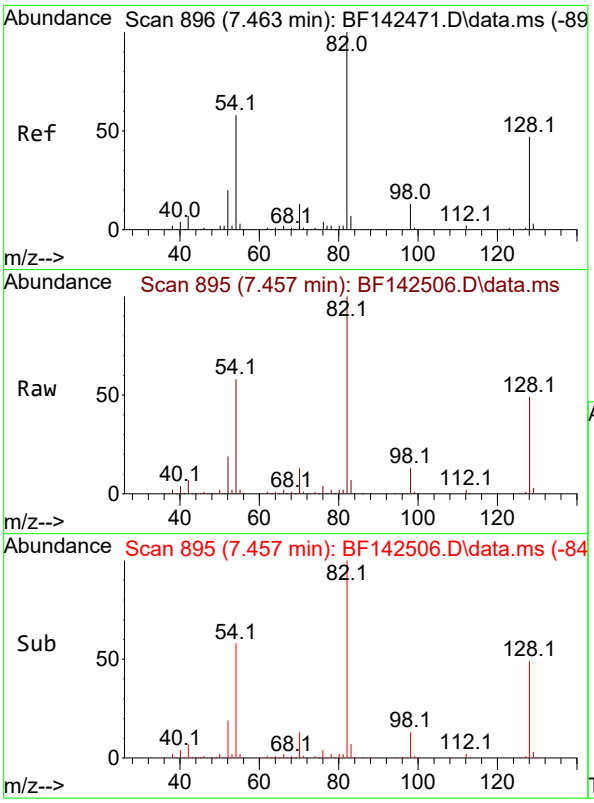


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:136 Resp: 438934

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.1	6.6	10.0
68	4.8	4.1	6.1



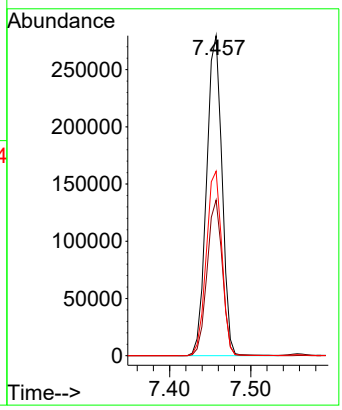


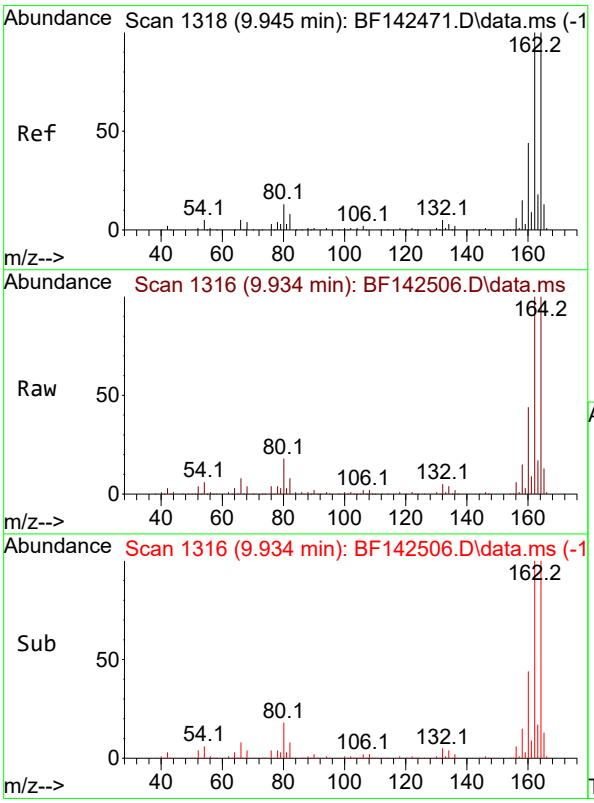
#23
Nitrobenzene-d5
Concen: 45.885 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion: 82 Resp: 369353

Ion	Ratio	Lower	Upper
82	100		
128	48.7	37.4	56.2
54	57.7	46.6	70.0

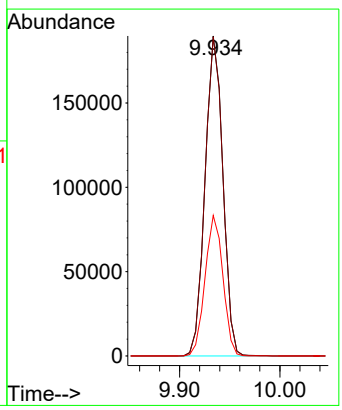


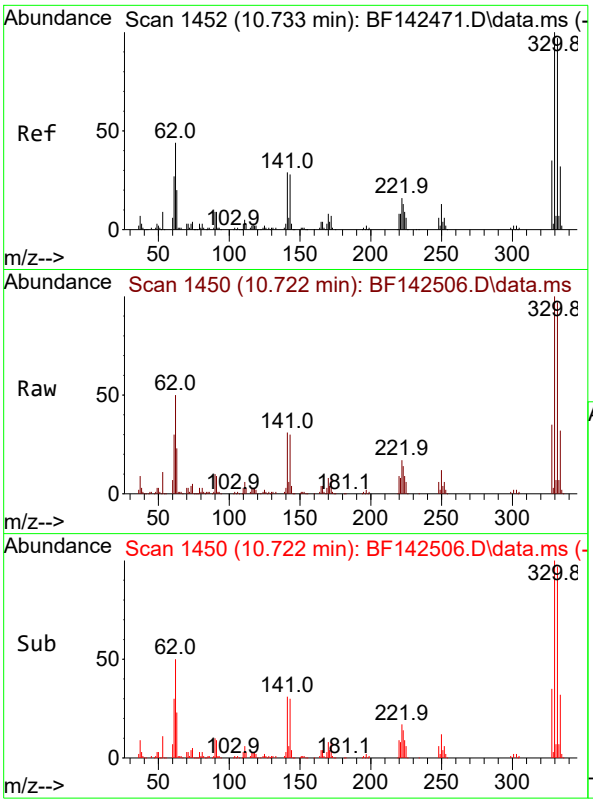


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:164 Resp: 234734

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.2	120.4
160	43.9	35.6	53.4



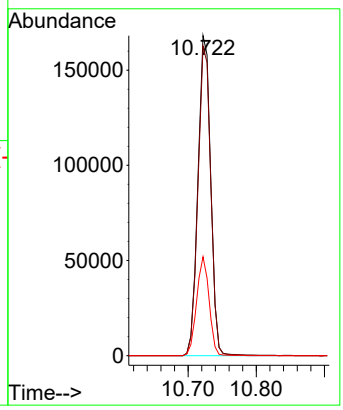


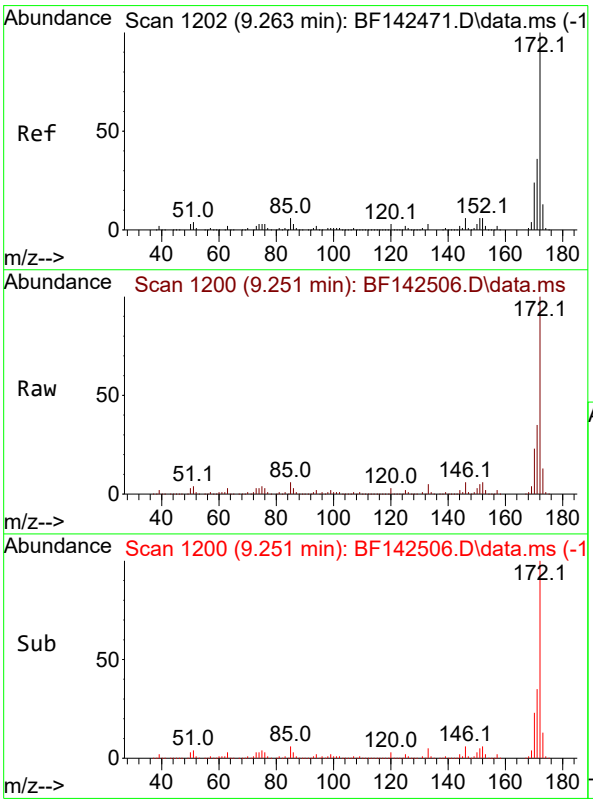
#42
2,4,6-Tribromophenol
Concen: 83.702 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:330 Resp: 218064

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	30.1	24.6	36.8

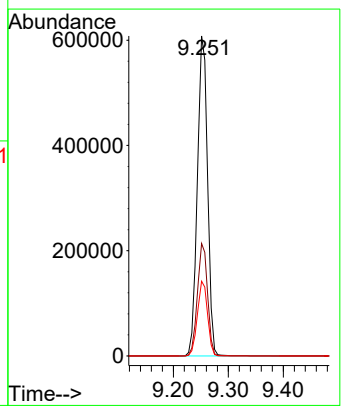


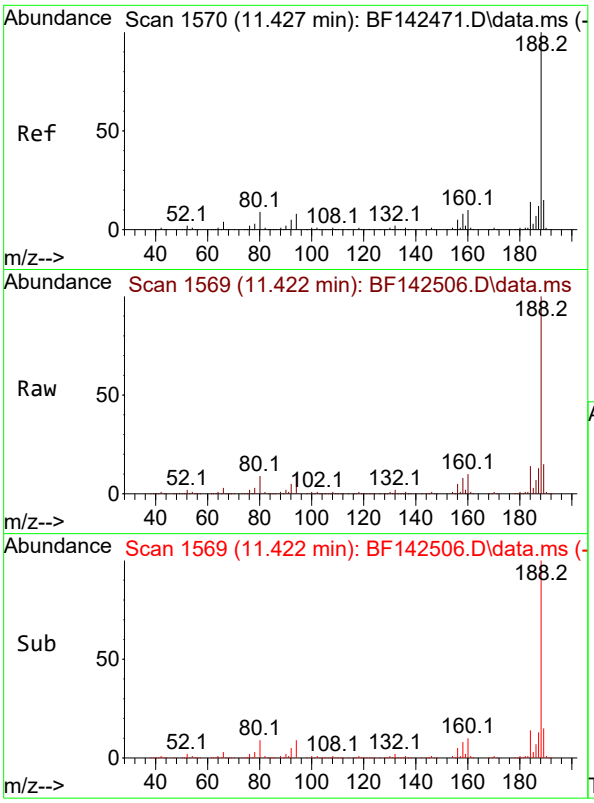


#45
2-Fluorobiphenyl
Concen: 44.888 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:172 Resp: 785241

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



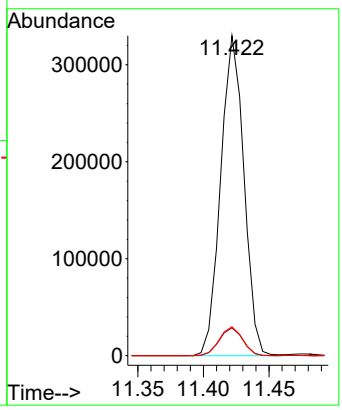


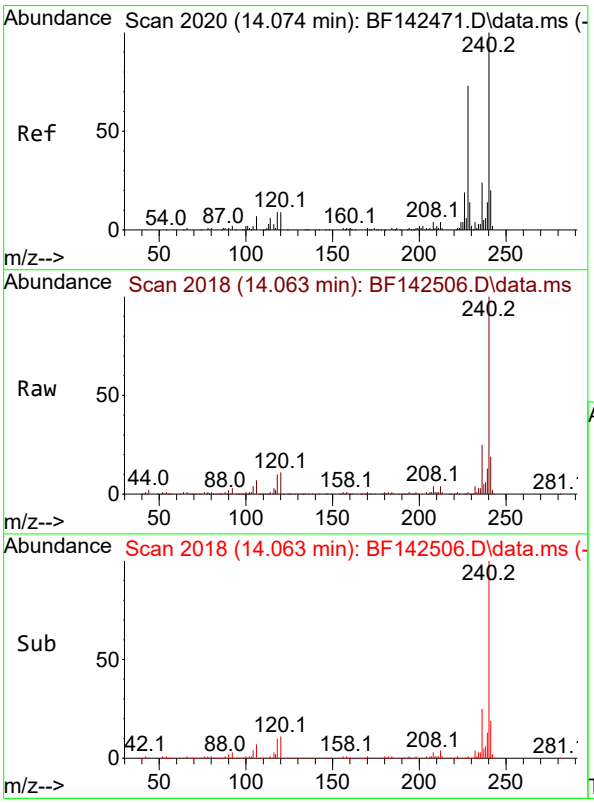
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:188 Resp: 406523

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.0	7.4	11.0

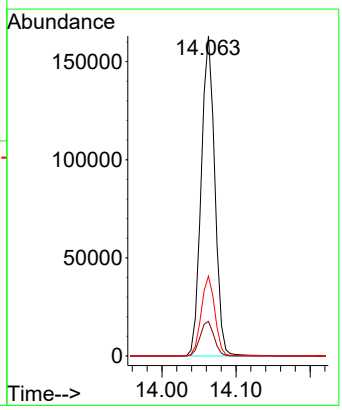


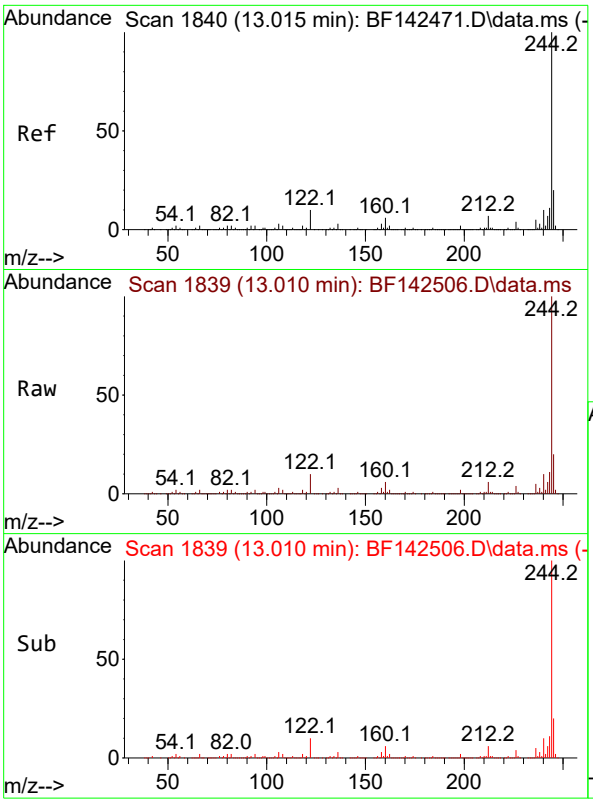


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:240 Resp: 207782

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	24.9	19.6	29.4



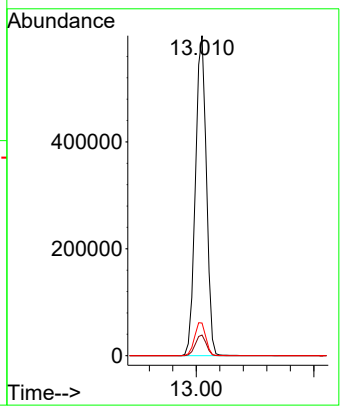


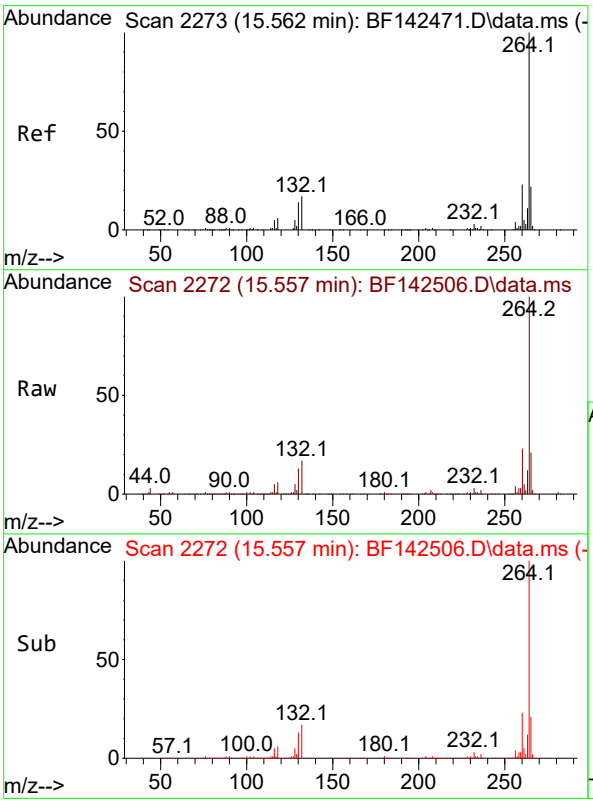
#79
Terphenyl-d14
Concen: 50.829 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:244 Resp: 772849

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.2	8.2	12.2

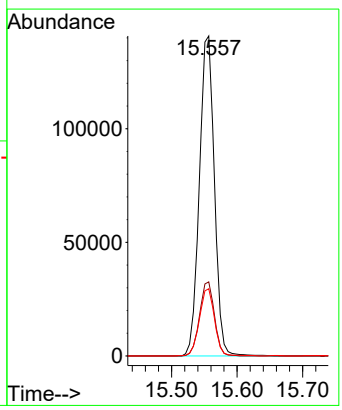




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:264 Resp: 225144

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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: BF142506.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	486	497	505	rBV	137232	207101	9.41%	1.270%
2	5.510	558	564	569	rBV	1389343	1835699	83.45%	11.254%
3	6.516	728	735	749	rBV	1416255	1951034	88.69%	11.962%
4	6.898	794	800	805	rBV	508449	645890	29.36%	3.960%
5	7.457	888	895	900	rBV	860646	1133311	51.52%	6.948%
6	7.710	933	938	943	rBB	27060	33193	1.51%	0.204%
7	8.181	1012	1018	1034	rBV	667002	862162	39.19%	5.286%
8	8.392	1049	1054	1061	rVB2	17080	23042	1.05%	0.141%
9	9.251	1194	1200	1205	rBV	1729083	2199760	100.00%	13.486%
10	9.934	1311	1316	1321	rBV	780223	964739	43.86%	5.915%
11	10.645	1432	1437	1444	rBV	183266	227090	10.32%	1.392%
12	10.722	1444	1450	1455	rBV	1243747	1578941	71.78%	9.680%
13	10.957	1479	1490	1495	rBV2	18470	26902	1.22%	0.165%
14	11.422	1564	1569	1576	rBV	793753	996003	45.28%	6.106%
15	11.945	1651	1658	1670	rBV2	129838	213476	9.70%	1.309%
16	12.198	1697	1701	1710	rVB4	16989	23521	1.07%	0.144%
17	12.633	1771	1775	1784	rBV	17344	30592	1.39%	0.188%
18	12.727	1787	1791	1800	rVV3	15545	26618	1.21%	0.163%
19	13.010	1833	1839	1844	rBV	1564594	2032369	92.39%	12.460%
20	13.904	1986	1991	2002	rBV	51974	104377	4.74%	0.640%
21	14.063	2009	2018	2028	rVB	435606	593491	26.98%	3.639%
22	15.557	2265	2272	2285	rBV	367513	601587	27.35%	3.688%

Sum of corrected areas: 16310898

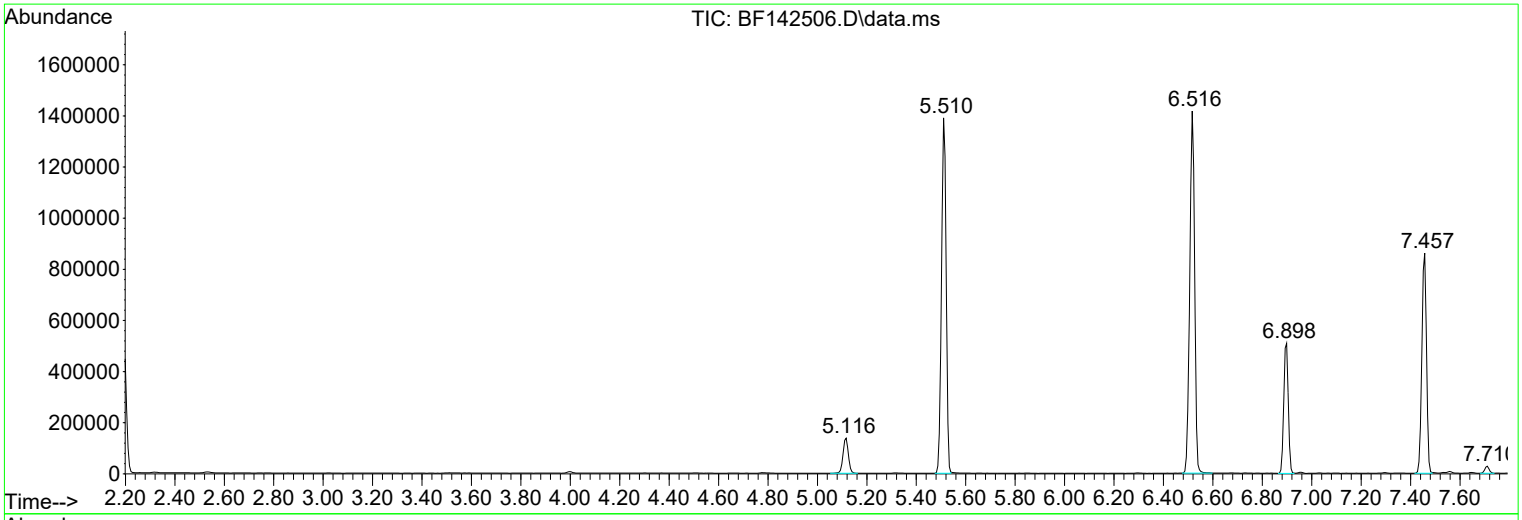
Sample Results: **BF142506.D**

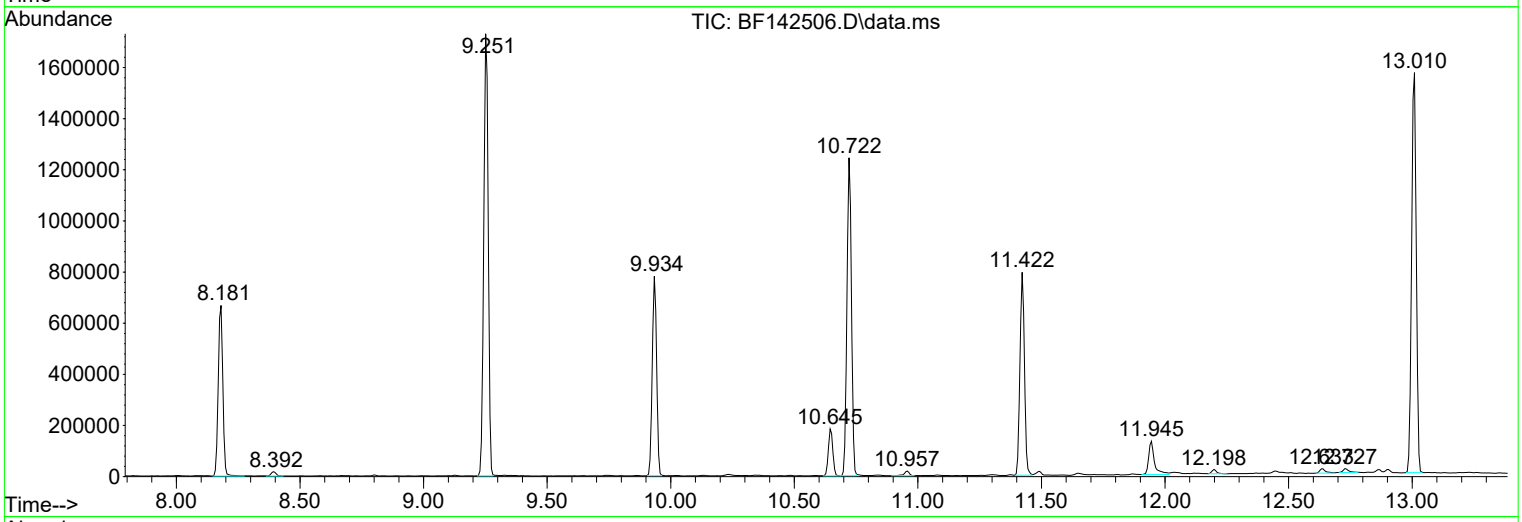
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

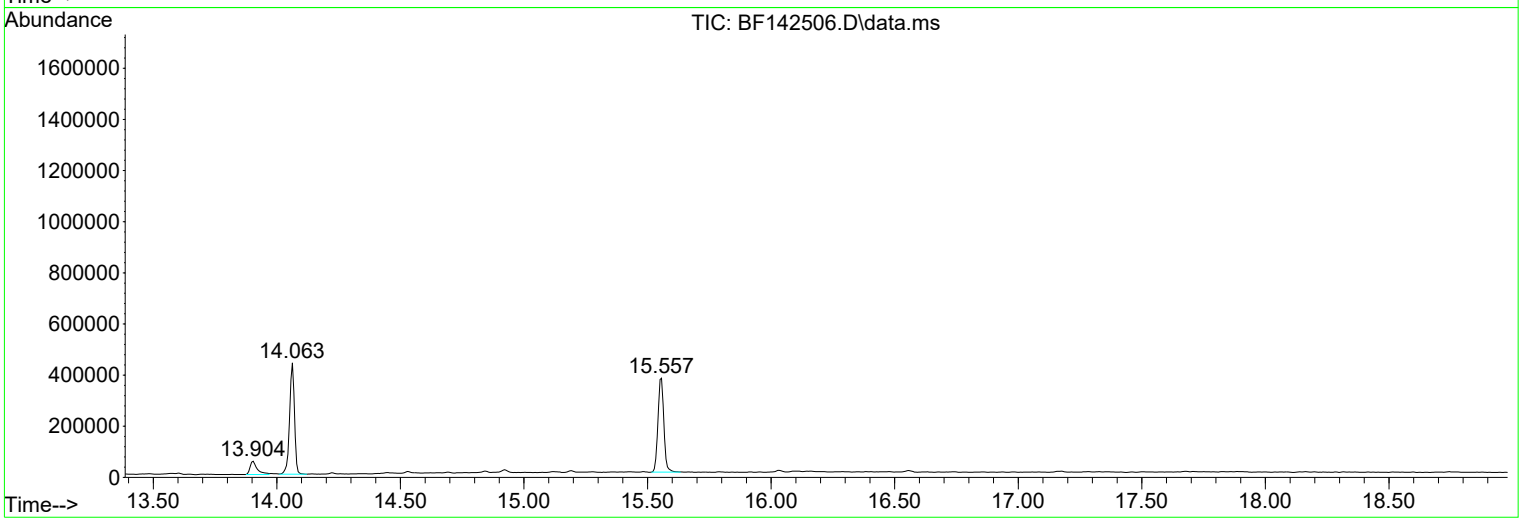
Instrument :
BNA_F
ClientSampleId :
TP-18

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\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

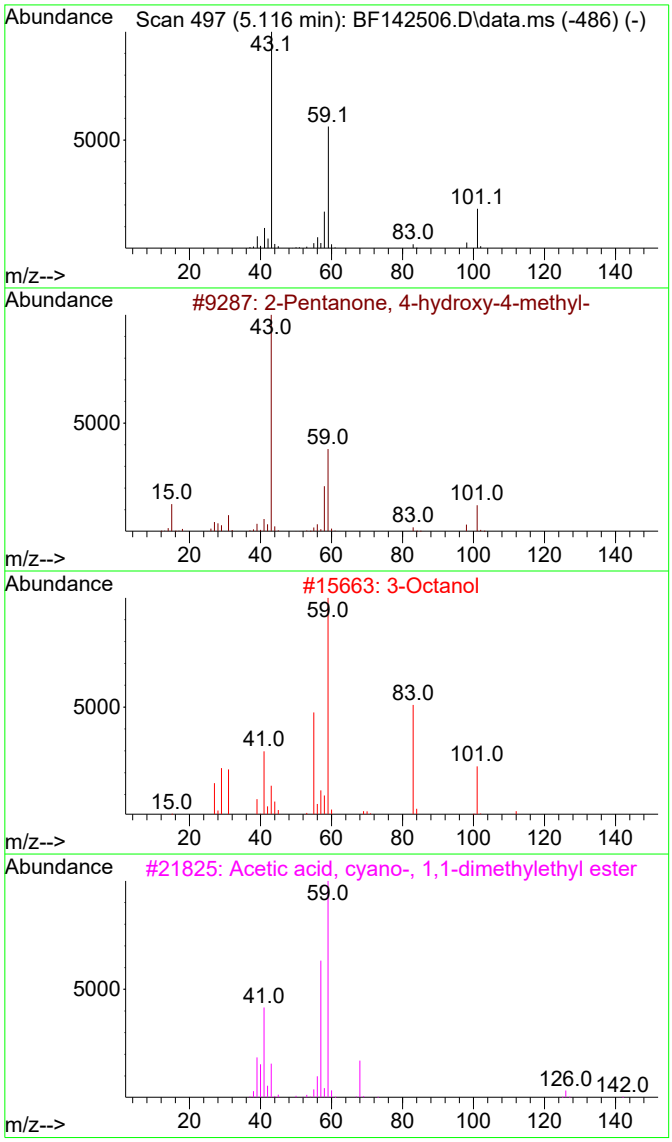
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

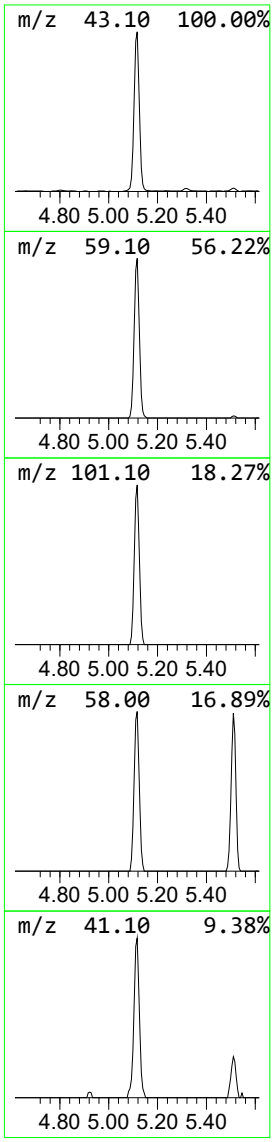
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.41 ng	207101	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	3-Octanol	130	C8H18O	000589-98-0	36
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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

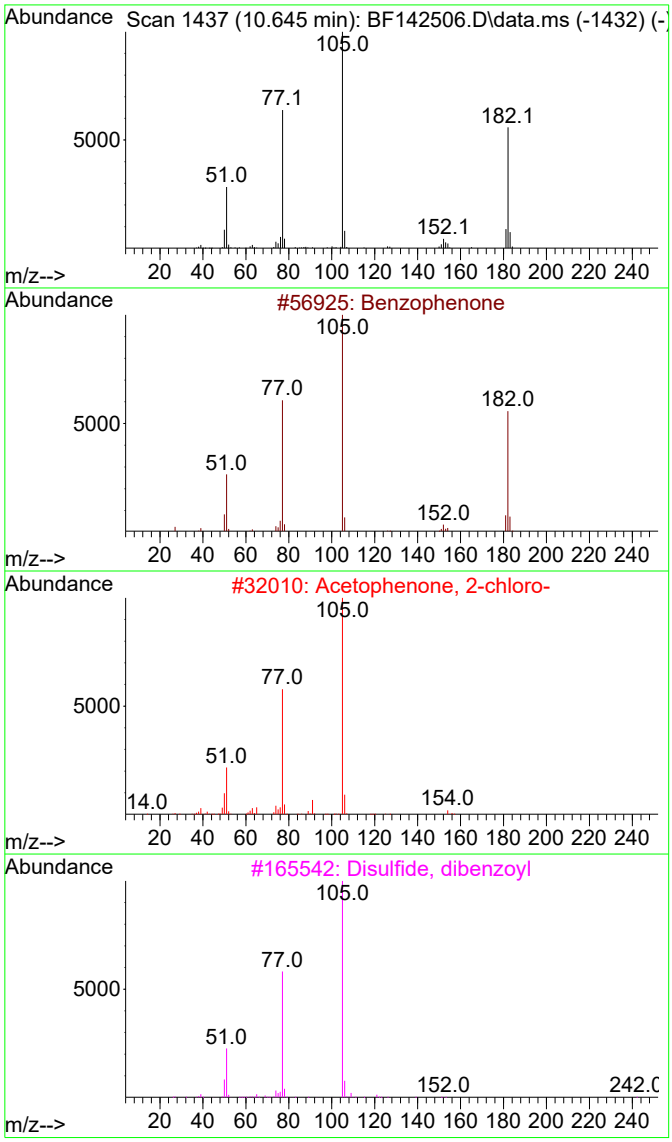
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

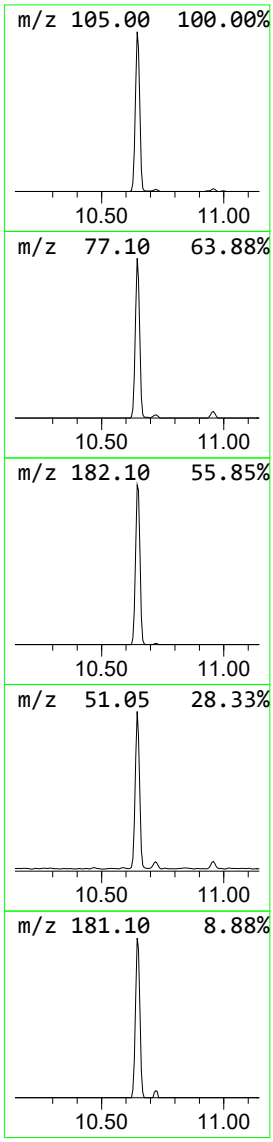
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.71 ng	227090	Acenaphthene-d10	9.934

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	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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

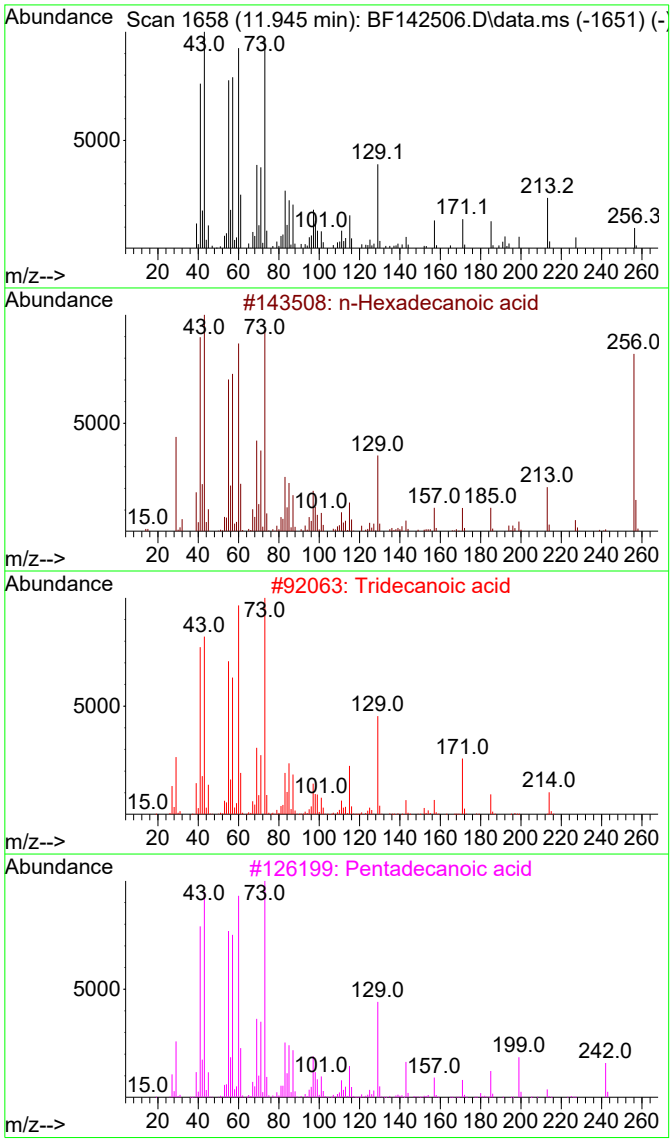
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

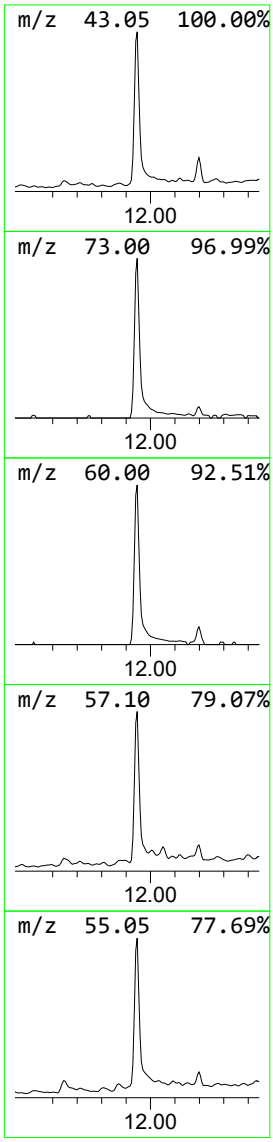
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.29 ng	213476	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	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

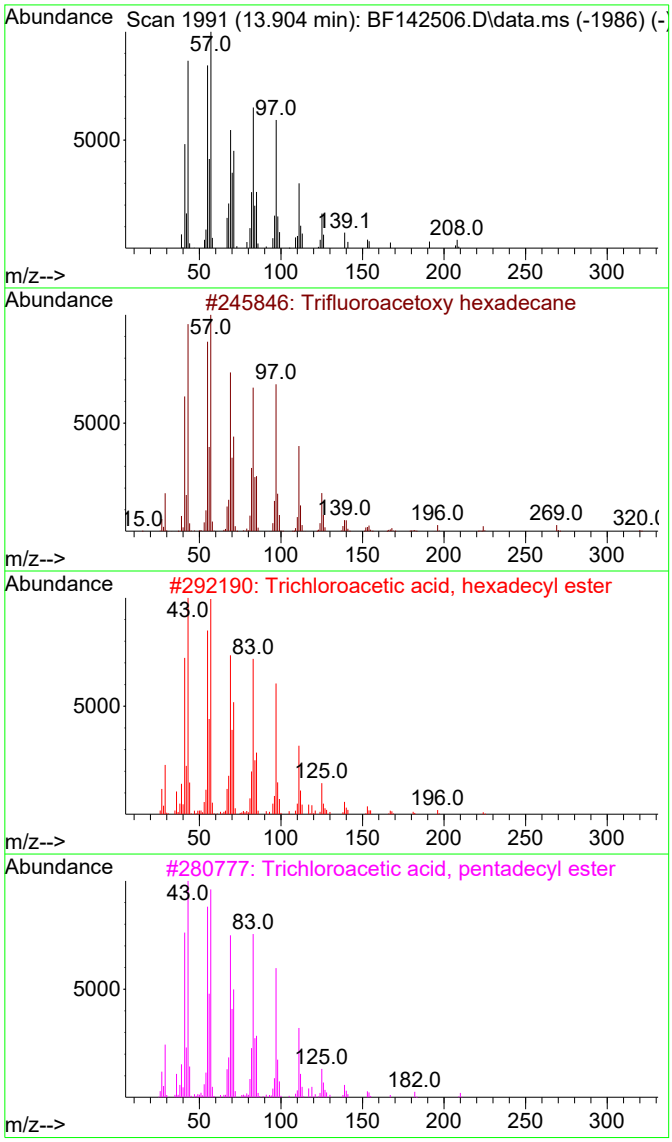
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

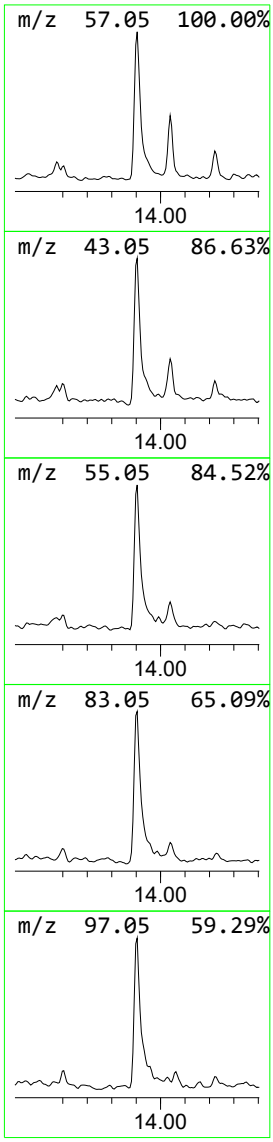
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.52 ng	104377	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
4	1-Docosene	308	C22H44	001599-67-3	94
5	17-Pentatriacontene	491	C35H70	006971-40-0	91





Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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	6.4	ng	207101	1	6.898	645890	20.0
Benzophenone	10.645	4.7	ng	227090	3	9.934	964739	20.0
n-Hexadecanoic ...	11.945	4.3	ng	213476	4	11.422	996003	20.0
Trifluoroacetox...	13.904	3.5	ng	104377	5	14.063	593491	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Time: May 21 12:03:53 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

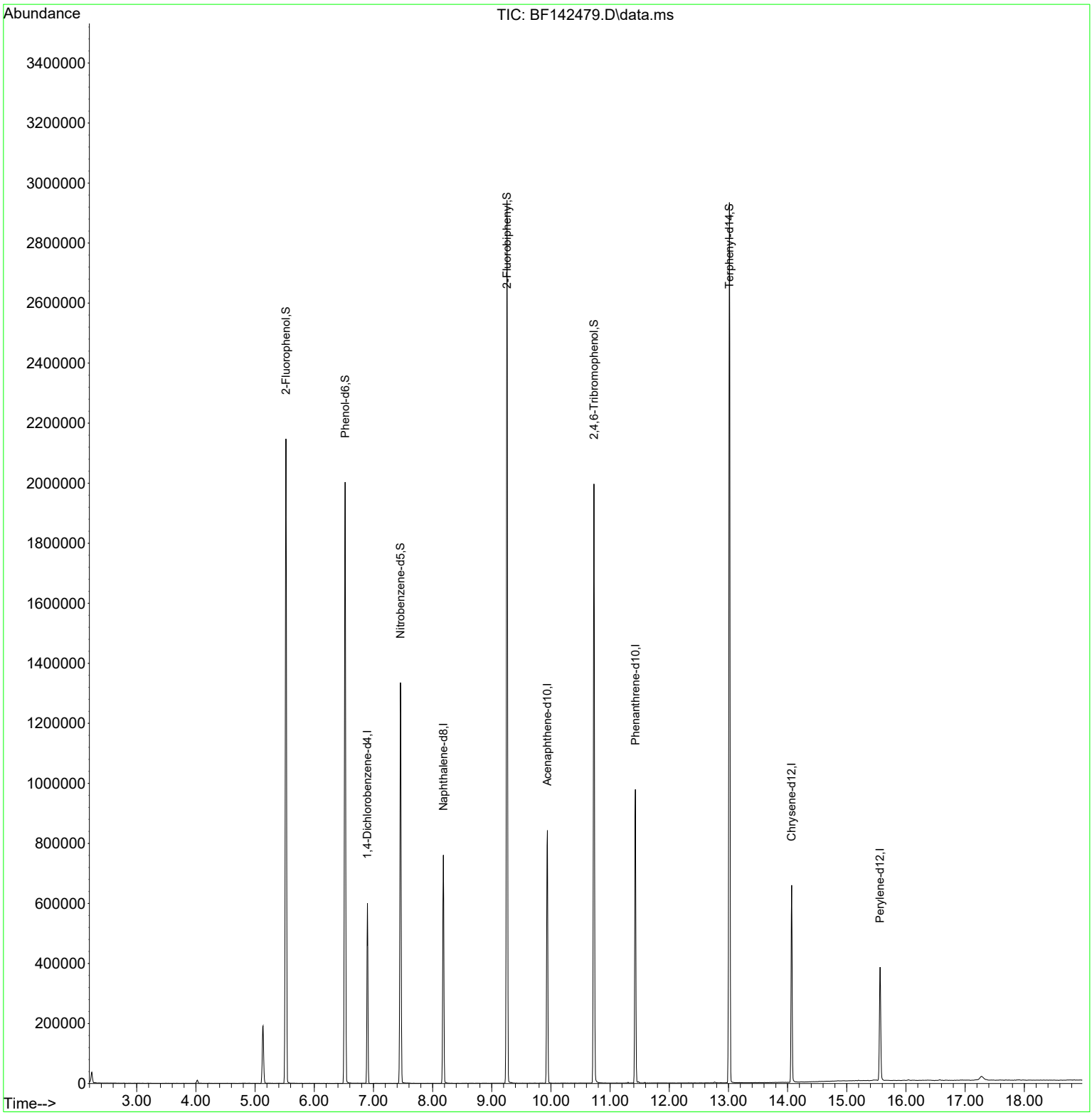
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	127003	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	492428	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	264579	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	511963	20.000	ng	0.00
76) Chrysene-d12	14.069	240	324877	20.000	ng	0.00
86) Perylene-d12	15.563	264	234653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	856643	113.638	ng	0.00
7) Phenol-d6	6.522	99	1002883	110.518	ng	-0.01
23) Nitrobenzene-d5	7.457	82	608593	67.392	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	374916	127.675	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1368581	69.410	ng	-0.01
79) Terphenyl-d14	13.016	244	1483984	62.421	ng	0.00
Target Compounds						Qvalue

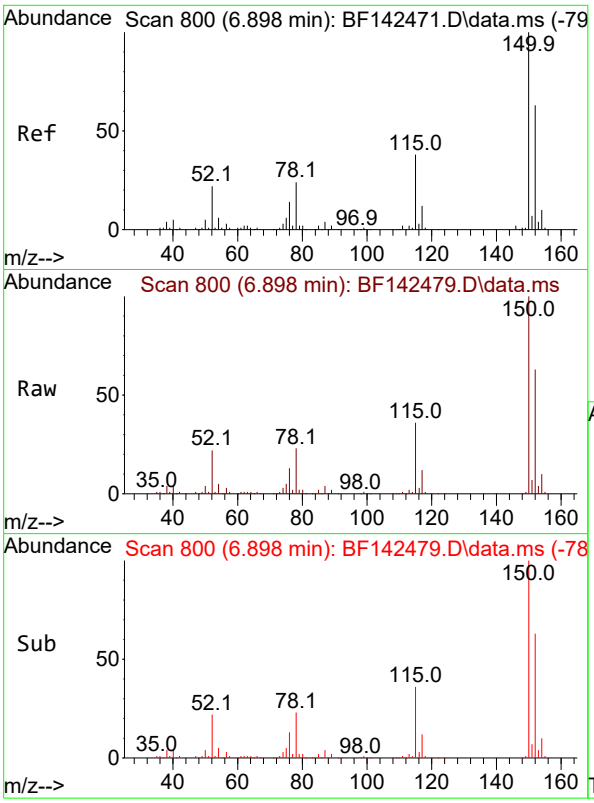
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Time: May 21 12:03:53 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



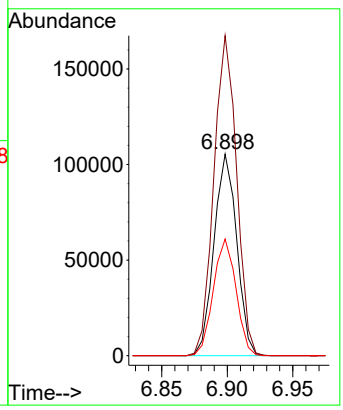


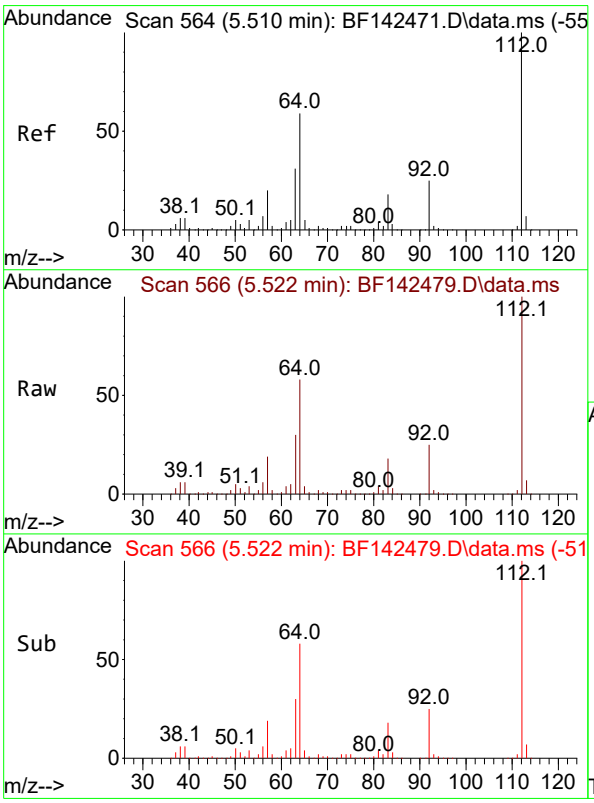
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:152 Resp: 127003

Ion	Ratio	Lower	Upper
152	100		
150	158.7	128.2	192.4
115	57.8	48.3	72.5

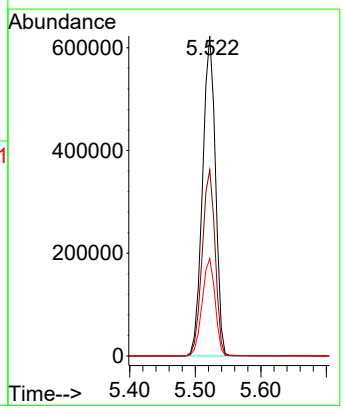


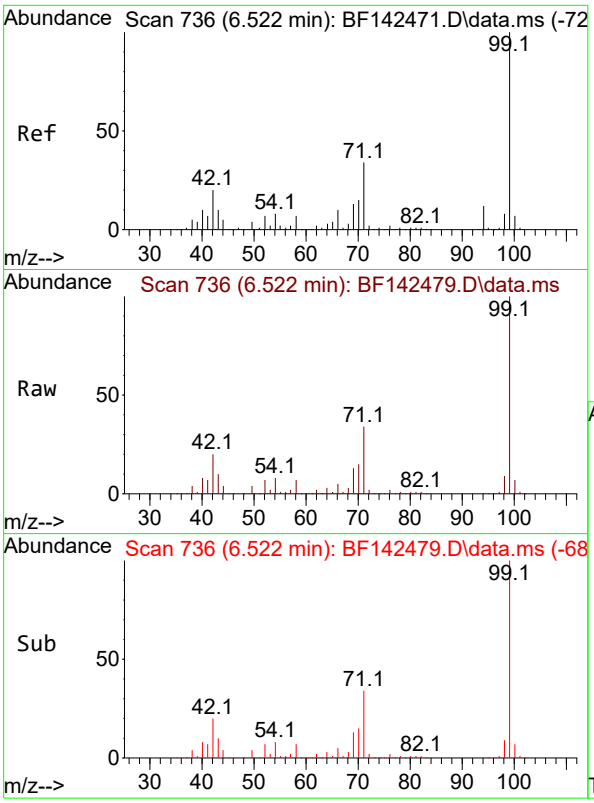


#5
2-Fluorophenol
Concen: 113.638 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:112 Resp: 856643

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.4	24.9	37.3



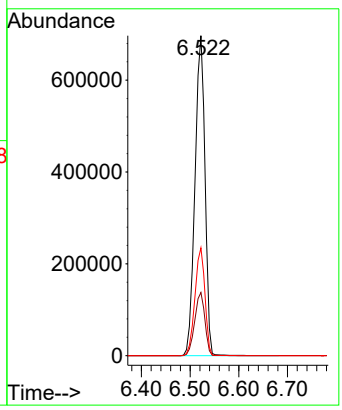


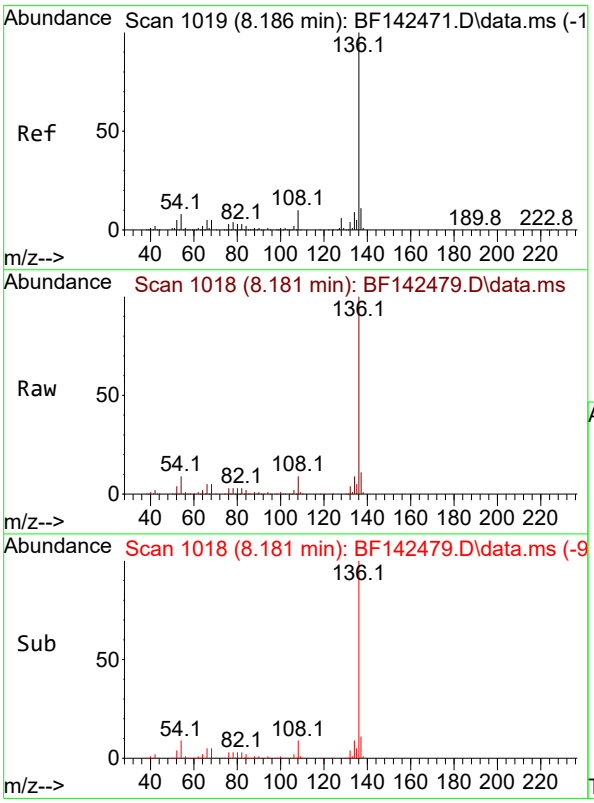
#7
Phenol-d6
Concen: 110.518 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion: 99 Resp: 1002883

Ion	Ratio	Lower	Upper
99	100		
42	19.8	16.2	24.2
71	33.7	27.3	40.9

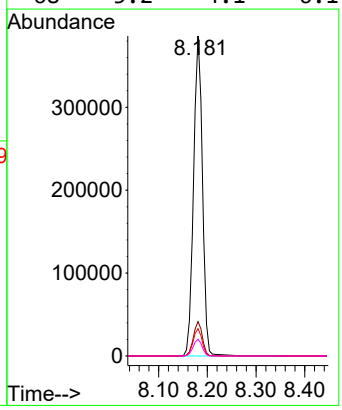


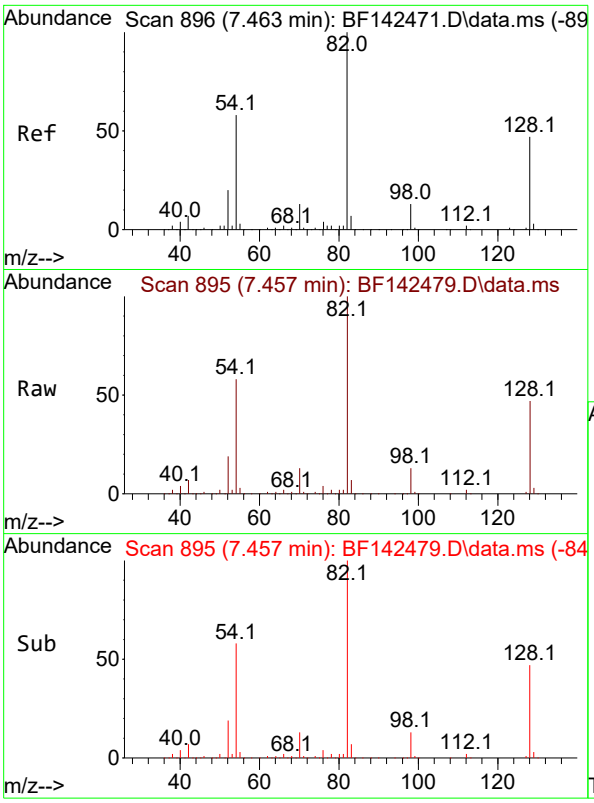


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:136 Resp: 492428

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.5	6.6	10.0
68	5.2	4.1	6.1



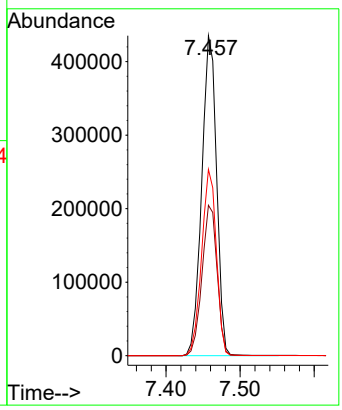


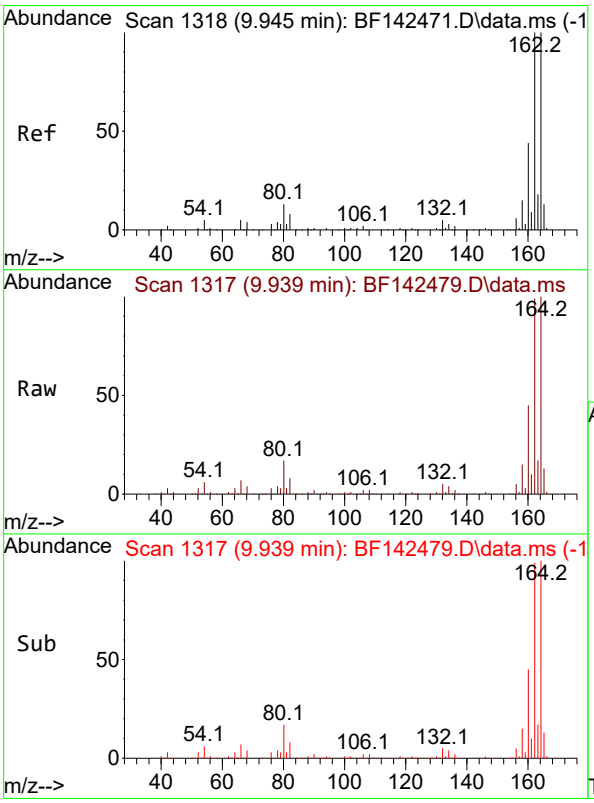
#23
Nitrobenzene-d5
Concen: 67.392 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion: 82 Resp: 608593

Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.4	56.2
54	58.2	46.6	70.0

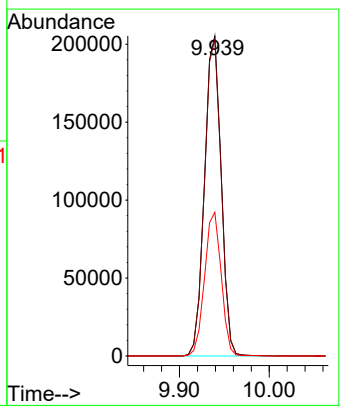


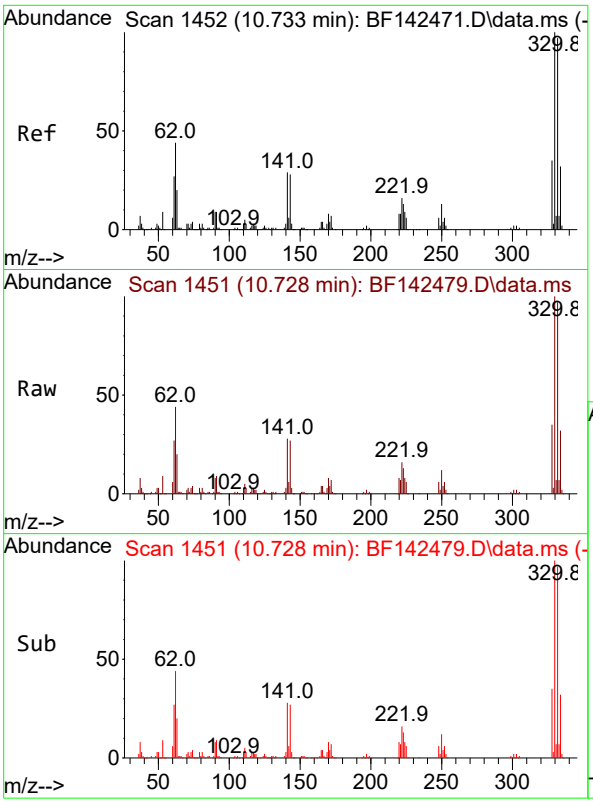


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:164 Resp: 264579

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.2	120.4
160	44.9	35.6	53.4



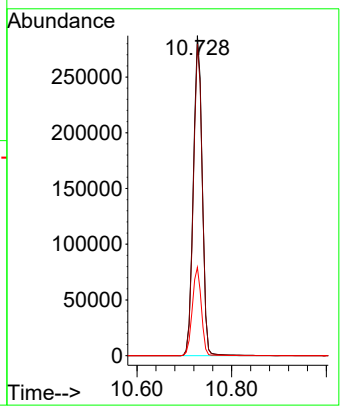


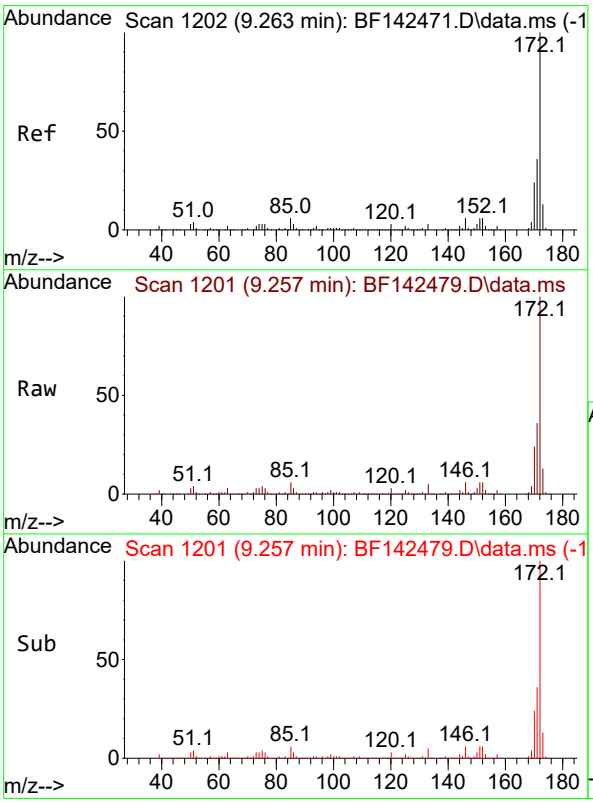
#42
2,4,6-Tribromophenol
Concen: 127.675 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:330 Resp: 374916

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	27.9	24.6	36.8

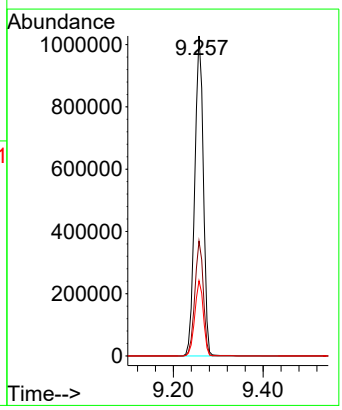


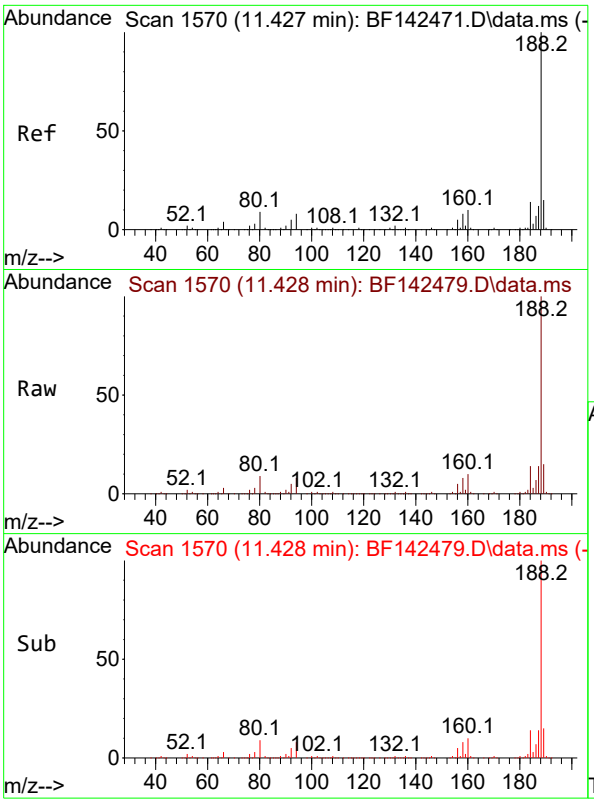


#45
2-Fluorobiphenyl
Concen: 69.410 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:172 Resp: 1368581

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	42.8
170	23.5	18.9	28.3



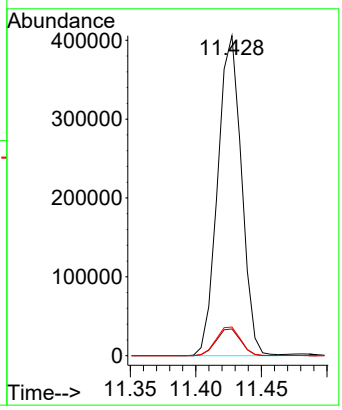


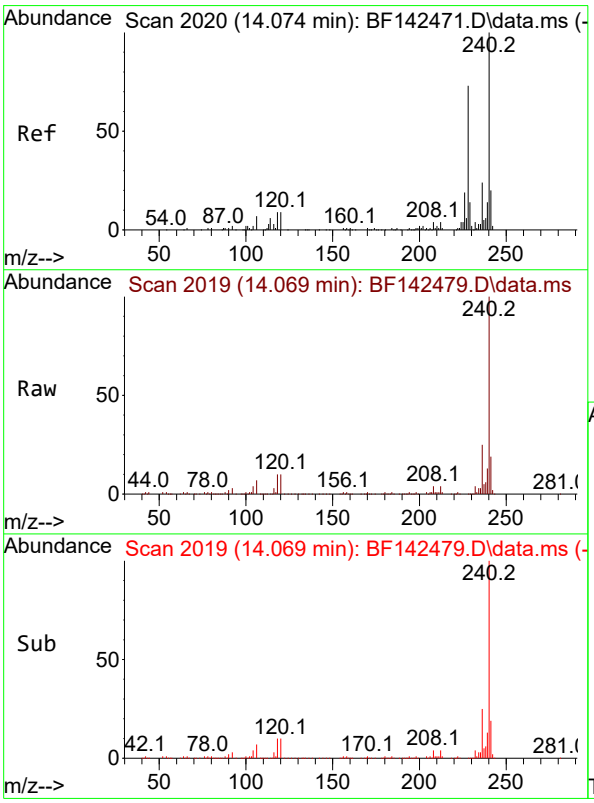
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:188 Resp: 511963

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	8.9	7.4	11.0

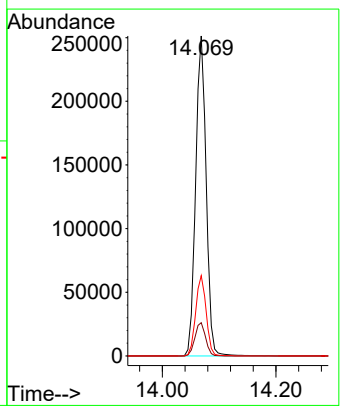


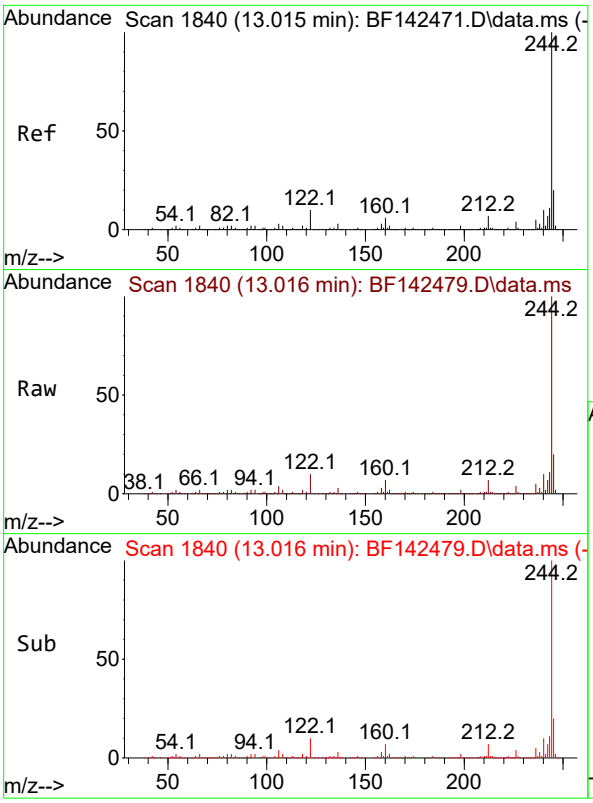


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:240 Resp: 324877

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.5	11.3
236	25.1	19.6	29.4



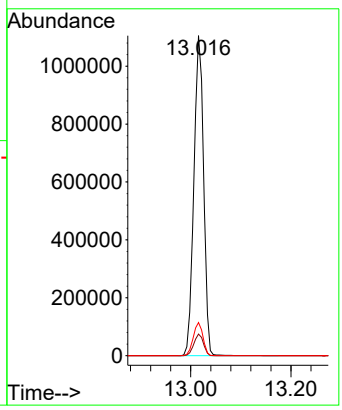


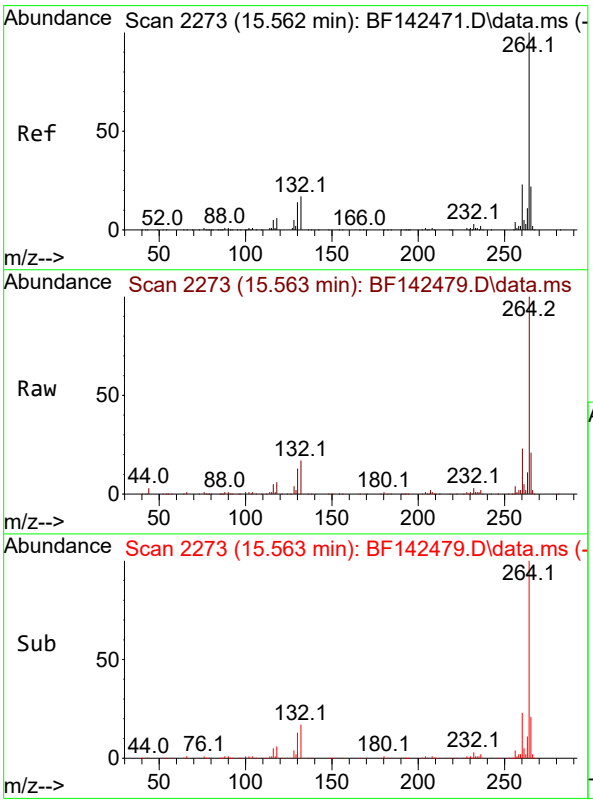
#79
Terphenyl-d14
Concen: 62.421 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:244 Resp: 1483984

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.3	8.2	12.2

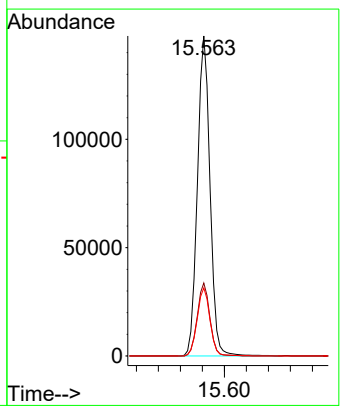




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:264 Resp: 234653

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.2	17.7	26.5



Sample Results: **BF142479.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

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: BF142479.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	3	8	14	rVB	34723	57108	1.46%	0.239%
2	5.134	493	500	508	rBV	191407	311221	7.97%	1.304%
3	5.522	559	566	571	rBV	2146959	2947599	75.45%	12.347%
4	6.522	729	736	741	rBV	2003240	2877982	73.66%	12.055%
5	6.898	795	800	805	rBV	599855	720820	18.45%	3.019%
6	7.457	889	895	901	rBV	1335137	1862698	47.68%	7.802%
7	8.181	1012	1018	1023	rBV	760302	956834	24.49%	4.008%
8	9.257	1194	1201	1206	rBV	2941901	3870393	99.07%	16.212%
9	9.939	1311	1317	1322	rBV	842247	1085794	27.79%	4.548%
10	10.728	1445	1451	1456	rBV	1996110	2602105	66.60%	10.900%
11	11.428	1564	1570	1575	rBV	977911	1232020	31.53%	5.161%
12	13.016	1834	1840	1845	rBV	2932859	3906898	100.00%	16.365%
13	14.069	2013	2019	2030	rBV	656550	847706	21.70%	3.551%
14	15.563	2266	2273	2286	rVB	377532	594312	15.21%	2.489%

Sum of corrected areas: 23873490

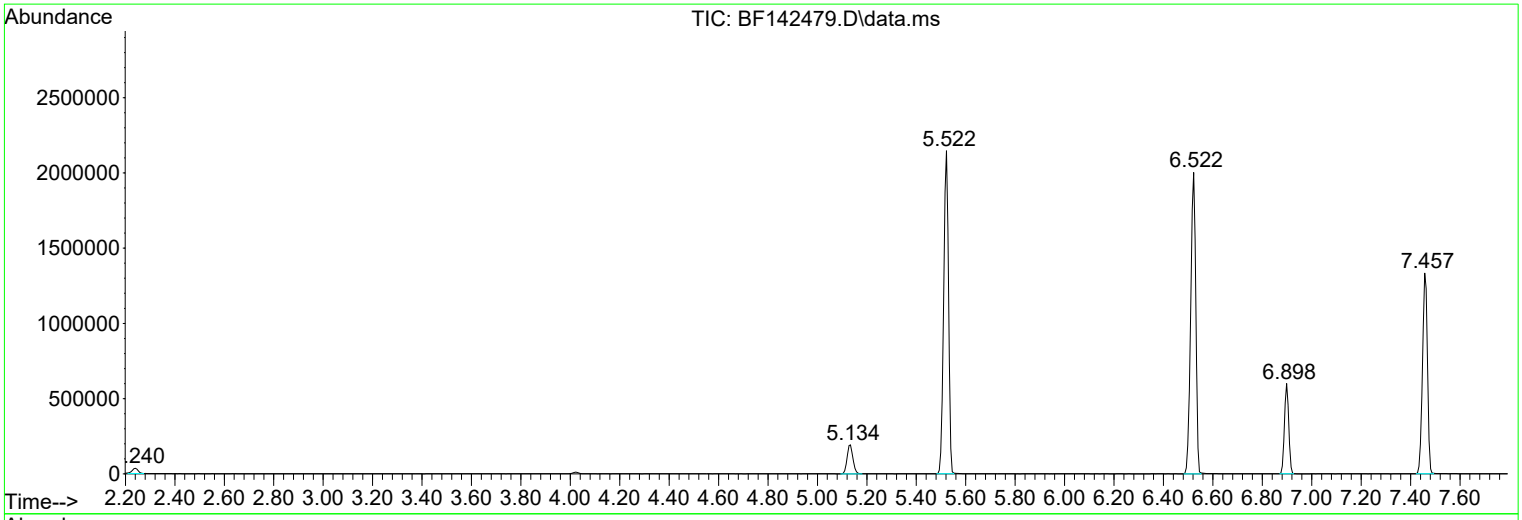
Sample Results: **BF142479.D**

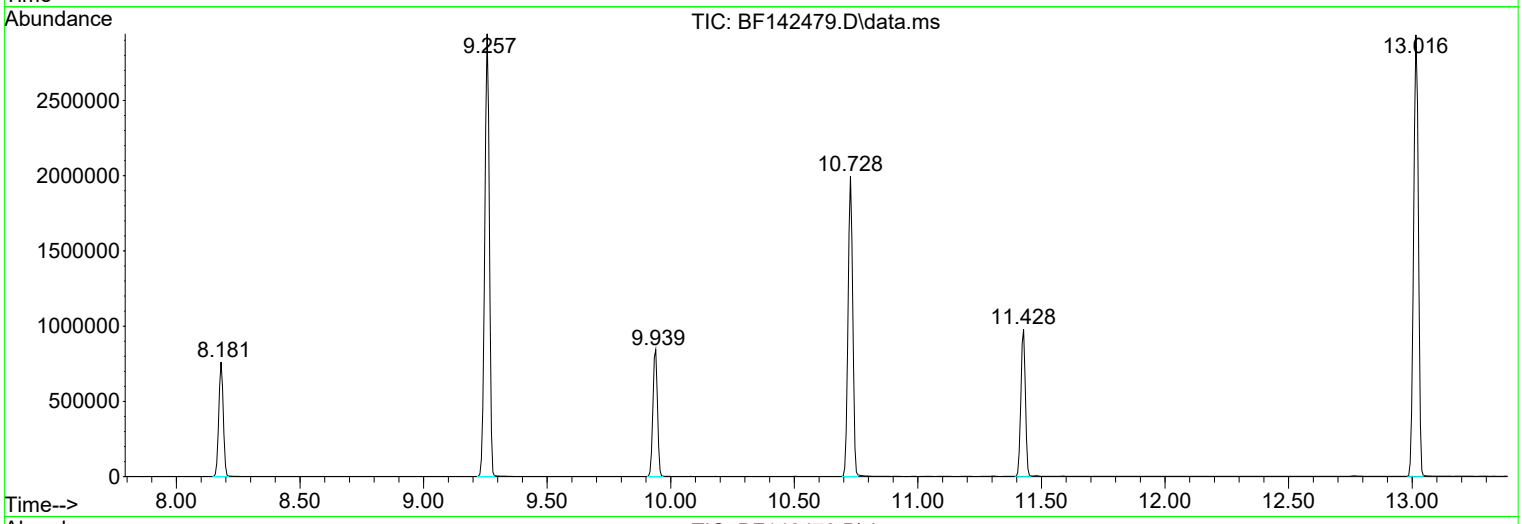
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

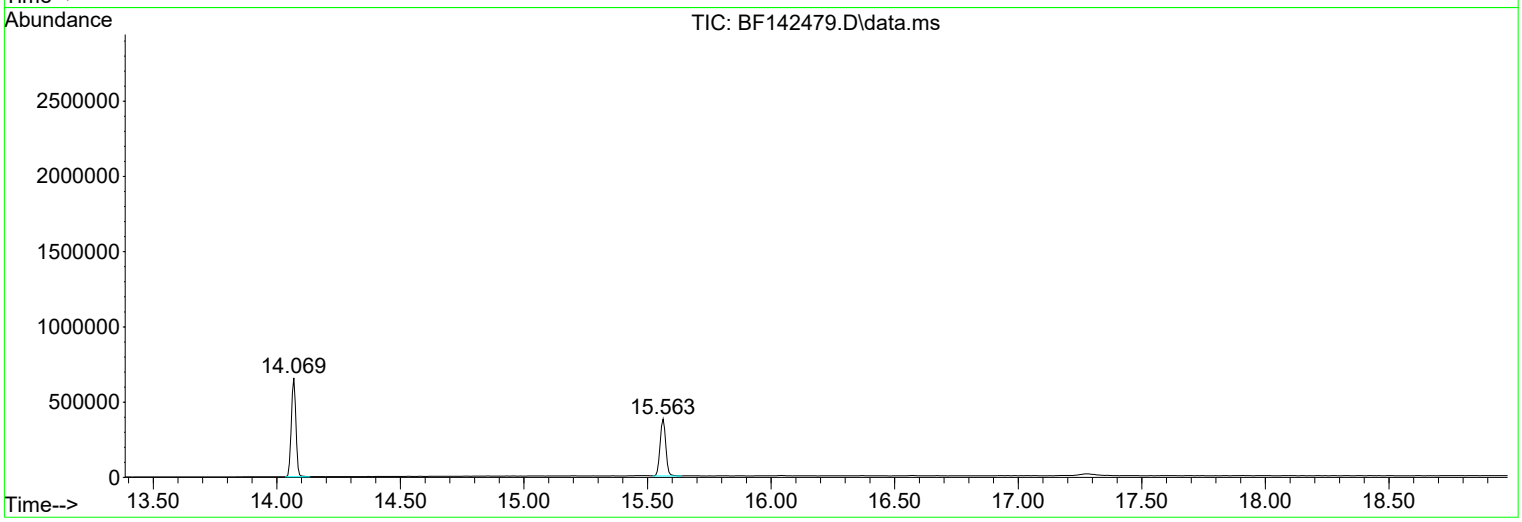
Instrument :
BNA_F
ClientSampleId :
PB168083BL

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\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

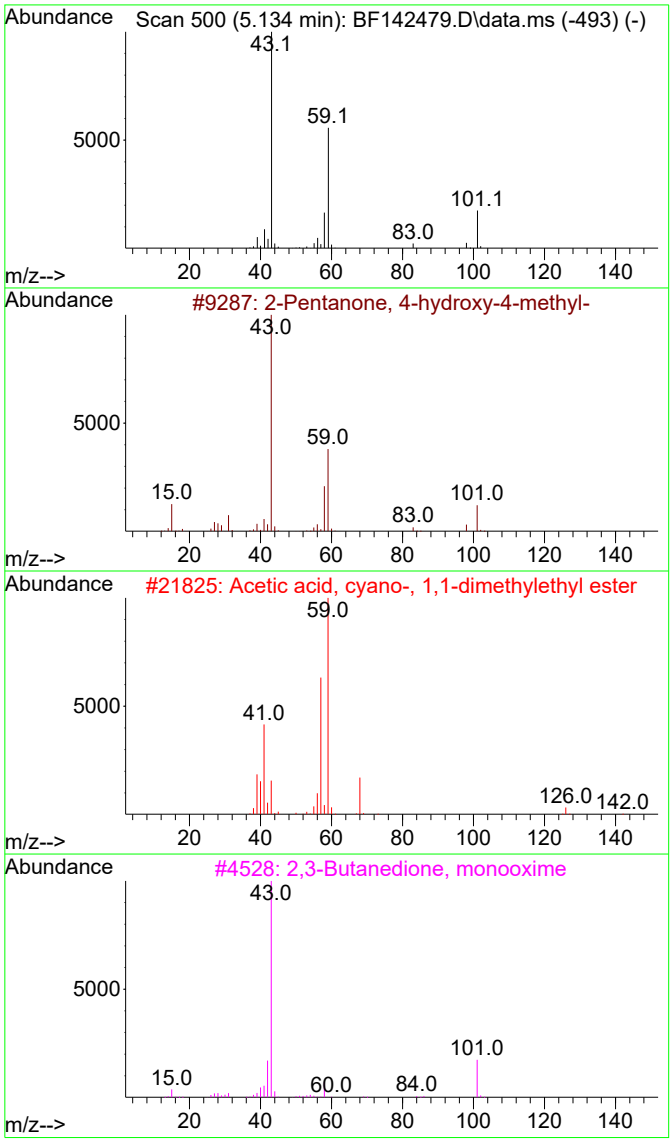
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

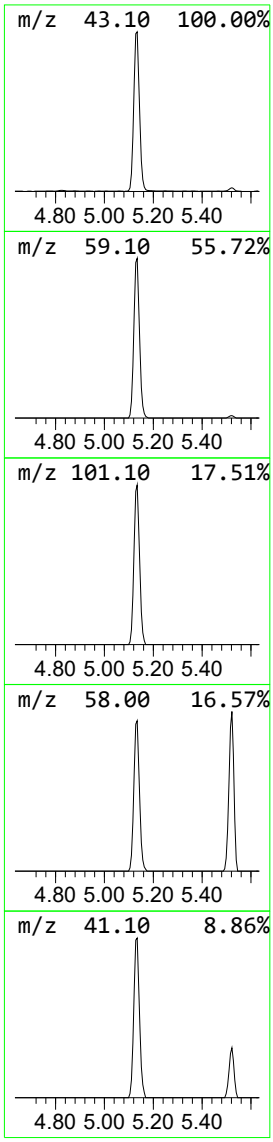
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	8.64 ng	311221	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

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	8.6	ng	311221	1	6.898	720820	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 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	124824	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	495438	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	277044	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	468851	20.000	ng	0.00
76) Chrysene-d12	14.068	240	214548	20.000	ng	0.00
86) Perylene-d12	15.562	264	229705	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	789637	106.578	ng	0.00
7) Phenol-d6	6.528	99	1023184	114.723	ng	0.00
23) Nitrobenzene-d5	7.463	82	630226	69.364	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	359414	116.889	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1363534	66.043	ng	0.00
79) Terphenyl-d14	13.015	244	1280646	81.570	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	96201	32.448	ng	100
3) Pyridine	3.516	79	266558	35.306	ng	99
4) n-Nitrosodimethylamine	3.469	42	148567	37.899	ng	96
6) Aniline	6.563	93	411299	34.298	ng	100
8) 2-Chlorophenol	6.686	128	342541	42.446	ng	100
9) Benzaldehyde	6.451	77	192665	35.916	ng	98
10) Phenol	6.539	94	417865	41.639	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	309767	42.881	ng	100
12) 1,3-Dichlorobenzene	6.839	146	362444	40.249	ng	100
13) 1,4-Dichlorobenzene	6.916	146	370203	40.813	ng	99
14) 1,2-Dichlorobenzene	7.069	146	355431	40.950	ng	99
15) Benzyl Alcohol	7.039	79	279366	42.387	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.175	45	500612	41.266	ng	100
17) 2-Methylphenol	7.151	107	268227	42.571	ng	99
18) Hexachloroethane	7.416	117	127582	40.280	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	227666	41.189	ng	99
20) 3+4-Methylphenols	7.304	107	334399	41.445	ng	98
22) Acetophenone	7.310	105	439615	40.084	ng	99
24) Nitrobenzene	7.481	77	337199	41.149	ng	99
25) Isophorone	7.722	82	626222	41.224	ng	99
26) 2-Nitrophenol	7.798	139	192665	44.001	ng	97
27) 2,4-Dimethylphenol	7.833	122	329798	42.710	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	383733	40.438	ng	99
29) 2,4-Dichlorophenol	8.039	162	298440	42.499	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	310974	40.804	ng	98
31) Naphthalene	8.204	128	1023370	41.950	ng	100
32) Benzoic acid	7.951	122	223837m	47.620	ng	
33) 4-Chloroaniline	8.251	127	189181m	19.138	ng	
34) Hexachlorobutadiene	8.322	225	187885	39.483	ng	100
35) Caprolactam	8.622	113	90734m	46.005	ng	
36) 4-Chloro-3-methylphenol	8.733	107	304323	42.286	ng	98
37) 2-Methylnaphthalene	8.898	142	614650	40.049	ng	100
38) 1-Methylnaphthalene	8.998	142	647702	40.800	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	312557	39.302	ng	99
41) Hexachlorocyclopentadiene	9.051	237	446528	83.232	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	222225	41.439	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 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

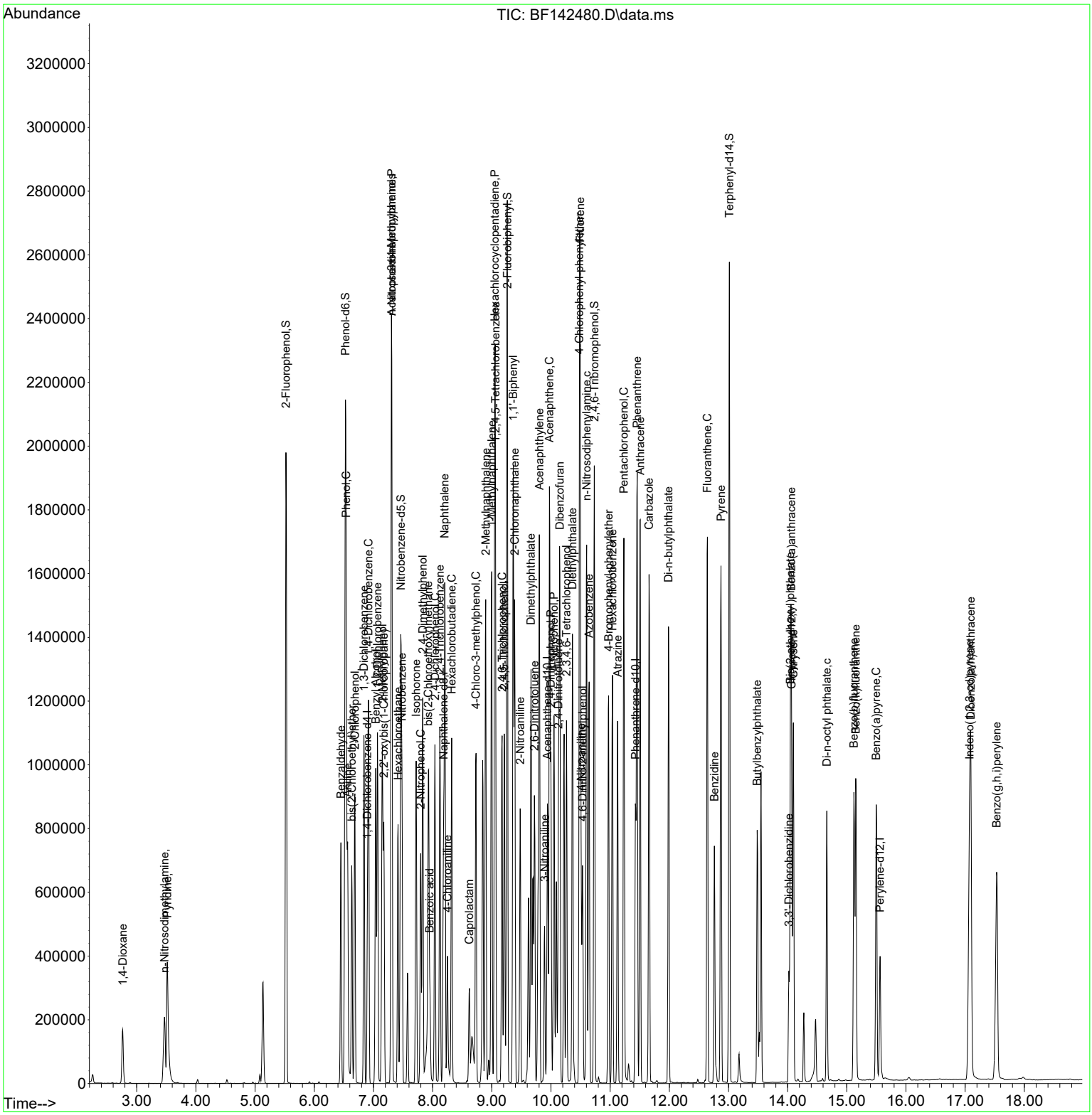
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	233019	41.201	ng	99
46) 1,1'-Biphenyl	9.363	154	859058	39.968	ng	100
47) 2-Chloronaphthalene	9.386	162	641274	40.382	ng	99
48) 2-Nitroaniline	9.480	65	194148	42.297	ng	97
49) Acenaphthylene	9.804	152	1082413	40.366	ng	100
50) Dimethylphthalate	9.663	163	772268	42.246	ng	100
51) 2,6-Dinitrotoluene	9.722	165	169971	43.080	ng	99
52) Acenaphthene	9.974	154	716666	43.769	ng	100
53) 3-Nitroaniline	9.892	138	115354	26.768	ng	99
54) 2,4-Dinitrophenol	9.998	184	201837	99.019	ng	93
55) Dibenzofuran	10.151	168	978668	41.535	ng	99
56) 4-Nitrophenol	10.051	139	288407	90.703	ng	99
57) 2,4-Dinitrotoluene	10.127	165	236587	45.916	ng	98
58) Fluorene	10.492	166	731497	40.185	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	199574	42.269	ng	99
60) Diethylphthalate	10.363	149	778235	43.590	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	353935	39.581	ng	100
62) 4-Nitroaniline	10.510	138	172618	44.166	ng	99
63) Azobenzene	10.645	77	646640	40.325	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	132075	50.477	ng	98
66) n-Nitrosodiphenylamine	10.604	169	625355	38.986	ng	99
67) 4-Bromophenyl-phenylether	10.974	248	227003	40.947	ng	99
68) Hexachlorobenzene	11.039	284	259350	42.297	ng	98
69) Atrazine	11.127	200	199511	46.835	ng	100
70) Pentachlorophenol	11.233	266	293992	84.924	ng	99
71) Phenanthrene	11.457	178	1055879	42.140	ng	99
72) Anthracene	11.510	178	1033289	40.407	ng	99
73) Carbazole	11.657	167	950628	43.485	ng	99
74) Di-n-butylphthalate	11.986	149	1042271	43.556	ng	100
75) Fluoranthene	12.645	202	1035557	44.231	ng	99
77) Benzidine	12.763	184	421887	52.842	ng	99
78) Pyrene	12.874	202	980148	48.973	ng	100
80) Butylbenzylphthalate	13.486	149	268182	48.493	ng	99
81) Benzo(a)anthracene	14.062	228	623164	43.497	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	106125	24.423	ng	99
83) Chrysene	14.098	228	540084	41.954	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	319188	45.086	ng	100
85) Di-n-octyl phthalate	14.662	149	580953	41.968	ng	100
87) Indeno(1,2,3-cd)pyrene	17.074	276	812696	47.127	ng	100
88) Benzo(b)fluoranthene	15.121	252	609272	44.816	ng	99
89) Benzo(k)fluoranthene	15.151	252	521543	40.959	ng	99
90) Benzo(a)pyrene	15.498	252	561953	43.852	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	657561	47.014	ng	100
92) Benzo(g,h,i)perylene	17.533	276	664539	47.503	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 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	54835	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	200654	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	113830	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	229012	20.000	ng		0.00
76) Chrysene-d12	14.068	240	210926	20.000	ng		0.00
86) Perylene-d12	15.563	264	176162	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	317682	97.605	ng		-0.01
7) Phenol-d6	6.516	99	383061	97.770	ng		-0.02
23) Nitrobenzene-d5	7.457	82	222361	60.428	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	143338	113.457	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	437751	51.603	ng		-0.01
79) Terphenyl-d14	13.010	244	640281	41.482	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	48586	37.304	ng		100
3) Pyridine	3.410	79	130372	39.308	ng		99
4) n-Nitrosodimethylamine	3.346	42	69967	40.629	ng		99
6) Aniline	6.557	93	118384	22.472	ng		98
8) 2-Chlorophenol	6.681	128	145011	40.904	ng		99
9) Benzaldehyde	6.445	77	91556	38.852	ng		98
10) Phenol	6.528	94	180038	40.838	ng		100
11) bis(2-Chloroethyl)ether	6.628	93	125263	39.472	ng		98
12) 1,3-Dichlorobenzene	6.840	146	159388	40.291	ng		98
13) 1,4-Dichlorobenzene	6.916	146	161291	40.477	ng		98
14) 1,2-Dichlorobenzene	7.069	146	153379	40.226	ng		99
15) Benzyl Alcohol	7.034	79	116330	40.178	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.169	45	207807	38.993	ng		100
17) 2-Methylphenol	7.140	107	112125	40.510	ng		99
18) Hexachloroethane	7.410	117	55846	40.136	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	93232	38.396	ng		100
20) 3+4-Methylphenols	7.292	107	144305	40.713	ng	#	87
22) Acetophenone	7.304	105	193459	43.554	ng		99
24) Nitrobenzene	7.475	77	141023	42.492	ng		98
25) Isophorone	7.716	82	246928	40.136	ng		98
26) 2-Nitrophenol	7.792	139	75333	42.480	ng		99
27) 2,4-Dimethylphenol	7.828	122	132431	42.346	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	154653	40.240	ng		100
29) 2,4-Dichlorophenol	8.034	162	119698	42.087	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	128865	41.750	ng		97
31) Naphthalene	8.204	128	419286	42.437	ng		100
32) Benzoic acid	7.916	122	88423m	46.448	ng		
33) 4-Chloroaniline	8.251	127	40768	10.183	ng		99
34) Hexachlorobutadiene	8.322	225	79280	41.136	ng		99
35) Caprolactam	8.598	113	43624m	54.613	ng		
36) 4-Chloro-3-methylphenol	8.728	107	125934	43.206	ng		98
37) 2-Methylnaphthalene	8.892	142	262739	42.270	ng		100
38) 1-Methylnaphthalene	8.992	142	272097	42.320	ng		100
40) 1,2,4,5-Tetrachloroben...	9.063	216	132130	40.437	ng		99
41) Hexachlorocyclopentadiene	9.051	237	162392	73.672	ng		99
43) 2,4,6-Trichlorophenol	9.169	196	89146	40.459	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 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

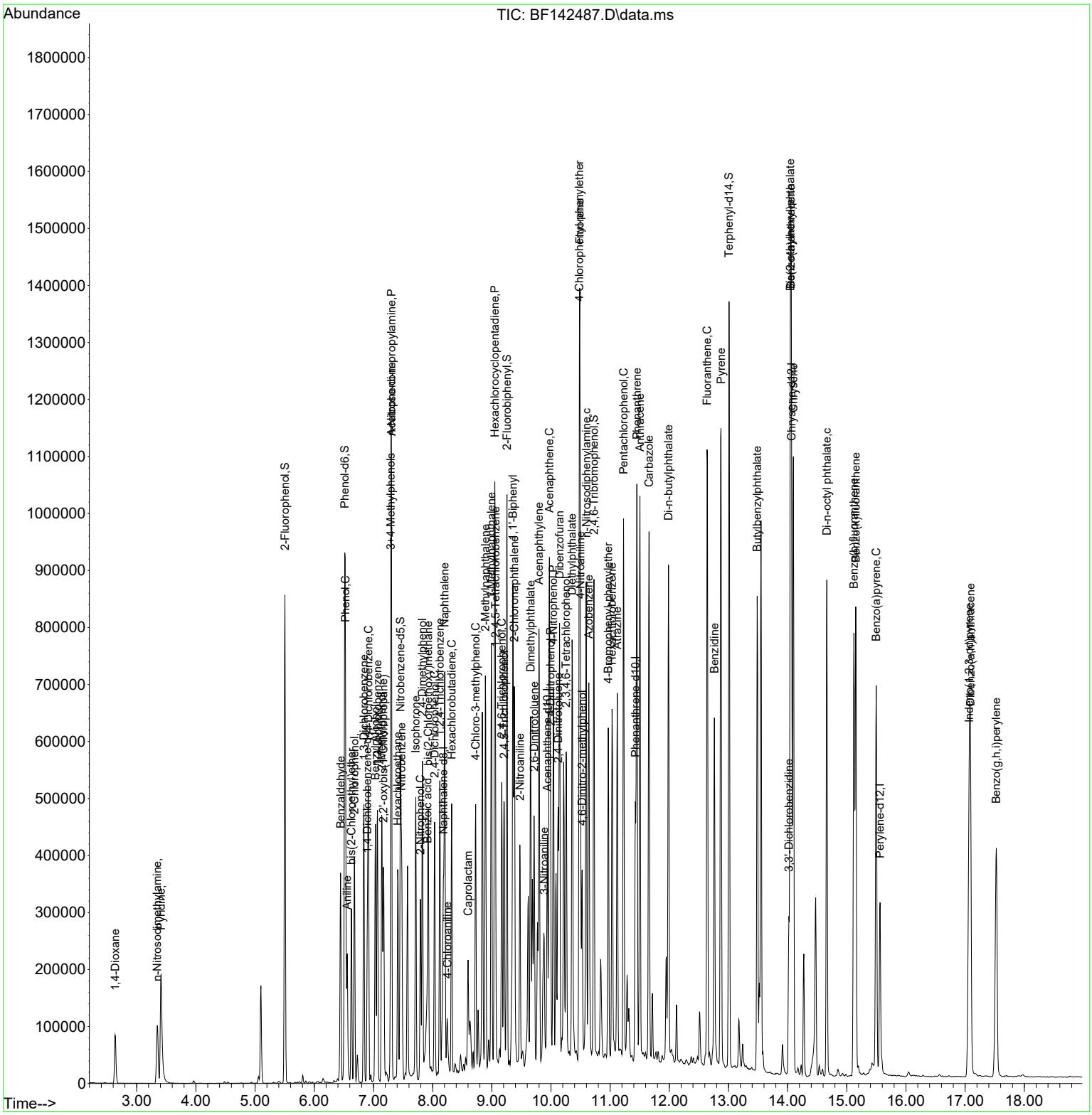
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	97535	41.972	ng		98
46) 1,1'-Biphenyl	9.357	154	366054	41.450	ng		99
47) 2-Chloronaphthalene	9.381	162	261870	40.135	ng		100
48) 2-Nitroaniline	9.475	65	83501	44.275	ng		99
49) Acenaphthylene	9.798	152	461954	41.929	ng		99
50) Dimethylphthalate	9.657	163	321711	42.833	ng		99
51) 2,6-Dinitrotoluene	9.716	165	71155	43.893	ng		98
52) Acenaphthene	9.975	154	316584	47.057	ng		98
53) 3-Nitroaniline	9.886	138	49223	27.800	ng		97
54) 2,4-Dinitrophenol	9.992	184	89427	106.777	ng		97
55) Dibenzofuran	10.145	168	417111	43.085	ng		99
56) 4-Nitrophenol	10.039	139	148325	113.533	ng		94
57) 2,4-Dinitrotoluene	10.122	165	106463	50.288	ng		99
58) Fluorene	10.486	166	334722	44.754	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	87547	45.129	ng	#	99
60) Diethylphthalate	10.357	149	336727	45.904	ng		99
61) 4-Chlorophenyl-phenyle...	10.480	204	156021	42.465	ng		98
62) 4-Nitroaniline	10.498	138	88055	54.834	ng		99
63) Azobenzene	10.639	77	321047	48.728	ng		97
65) 4,6-Dinitro-2-methylph...	10.528	198	59594	46.629	ng		100
66) n-Nitrosodiphenylamine	10.598	169	302640	38.627	ng		99
67) 4-Bromophenyl-phenylether	10.969	248	100859	37.246	ng		97
68) Hexachlorobenzene	11.033	284	116897	39.031	ng		99
69) Atrazine	11.122	200	107203	51.521	ng		98
70) Pentachlorophenol	11.227	266	154568	91.410	ng		99
71) Phenanthrene	11.451	178	528821	43.208	ng		100
72) Anthracene	11.504	178	544100	43.560	ng		99
73) Carbazole	11.657	167	529990	49.633	ng		100
74) Di-n-butylphthalate	11.986	149	608435	52.055	ng		99
75) Fluoranthene	12.639	202	660582	57.764	ng		100
77) Benzidine	12.763	184	338429	43.116	ng		99
78) Pyrene	12.874	202	669848	34.043	ng		99
80) Butylbenzylphthalate	13.486	149	271799	49.991	ng		99
81) Benzo(a)anthracene	14.057	228	611032	43.383	ng		98
82) 3,3'-Dichlorobenzidine	14.021	252	81284	19.027	ng		97
83) Chrysene	14.098	228	524218	41.421	ng		100
84) Bis(2-ethylhexyl)phtha...	14.045	149	376196	54.051	ng		100
85) Di-n-octyl phthalate	14.663	149	605040	44.459	ng		100
87) Indeno(1,2,3-cd)pyrene	17.068	276	477933	36.138	ng		99
88) Benzo(b)fluoranthene	15.121	252	530624	50.894	ng		98
89) Benzo(k)fluoranthene	15.151	252	416436	42.645	ng		99
90) Benzo(a)pyrene	15.498	252	434657	44.228	ng		99
91) Dibenzo(a,h)anthracene	17.092	278	382303	35.642	ng		99
92) Benzo(g,h,i)perylene	17.527	276	380185	35.437	ng		100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 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	53473	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	192497	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	95696	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	179294	20.000	ng		0.00
76) Chrysene-d12	14.068	240	174160	20.000	ng		0.00
86) Perylene-d12	15.557	264	147670	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	304079	95.805	ng		-0.01
7) Phenol-d6	6.516	99	365334	95.621	ng		-0.02
23) Nitrobenzene-d5	7.457	82	210235	59.553	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	113033	106.424	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	388254	54.441	ng		-0.01
79) Terphenyl-d14	13.010	244	512173	40.188	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	46460	36.580	ng		97
3) Pyridine	3.410	79	126162	39.007	ng		99
4) n-Nitrosodimethylamine	3.346	42	67799	40.373	ng		96
6) Aniline	6.557	93	112810	21.959	ng		99
8) 2-Chlorophenol	6.681	128	139131	40.245	ng		98
9) Benzaldehyde	6.445	77	86641	37.703	ng		99
10) Phenol	6.528	94	171228	39.829	ng		100
11) bis(2-Chloroethyl)ether	6.628	93	121333	39.208	ng		100
12) 1,3-Dichlorobenzene	6.840	146	155190	40.230	ng		98
13) 1,4-Dichlorobenzene	6.916	146	155412	39.995	ng		98
14) 1,2-Dichlorobenzene	7.069	146	149202	40.127	ng		98
15) Benzyl Alcohol	7.034	79	108038	38.264	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.169	45	198589	38.213	ng		100
17) 2-Methylphenol	7.145	107	105761	39.184	ng		97
18) Hexachloroethane	7.410	117	53195	39.204	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	86737	36.631	ng		98
20) 3+4-Methylphenols	7.292	107	134110	38.800	ng	#	87
22) Acetophenone	7.304	105	181145	42.510	ng		99
24) Nitrobenzene	7.475	77	132830	41.719	ng		99
25) Isophorone	7.716	82	230066	38.979	ng		98
26) 2-Nitrophenol	7.792	139	71728	42.161	ng		98
27) 2,4-Dimethylphenol	7.828	122	121560	40.517	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	142931	38.766	ng		99
29) 2,4-Dichlorophenol	8.034	162	110236	40.402	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	123234	41.617	ng		98
31) Naphthalene	8.204	128	394689	41.641	ng		99
32) Benzoic acid	7.916	122	75602m	41.396	ng		
33) 4-Chloroaniline	8.251	127	39518	10.289	ng		98
34) Hexachlorobutadiene	8.322	225	75196	40.670	ng		99
35) Caprolactam	8.598	113	35475	46.294	ng		92
36) 4-Chloro-3-methylphenol	8.728	107	109810	39.271	ng		97
37) 2-Methylnaphthalene	8.892	142	240543	40.339	ng		99
38) 1-Methylnaphthalene	8.992	142	248451	40.280	ng		99
40) 1,2,4,5-Tetrachloroben...	9.063	216	118777	43.238	ng		98
41) Hexachlorocyclopentadiene	9.051	237	151109	81.543	ng		98
43) 2,4,6-Trichlorophenol	9.169	196	77212	41.683	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 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

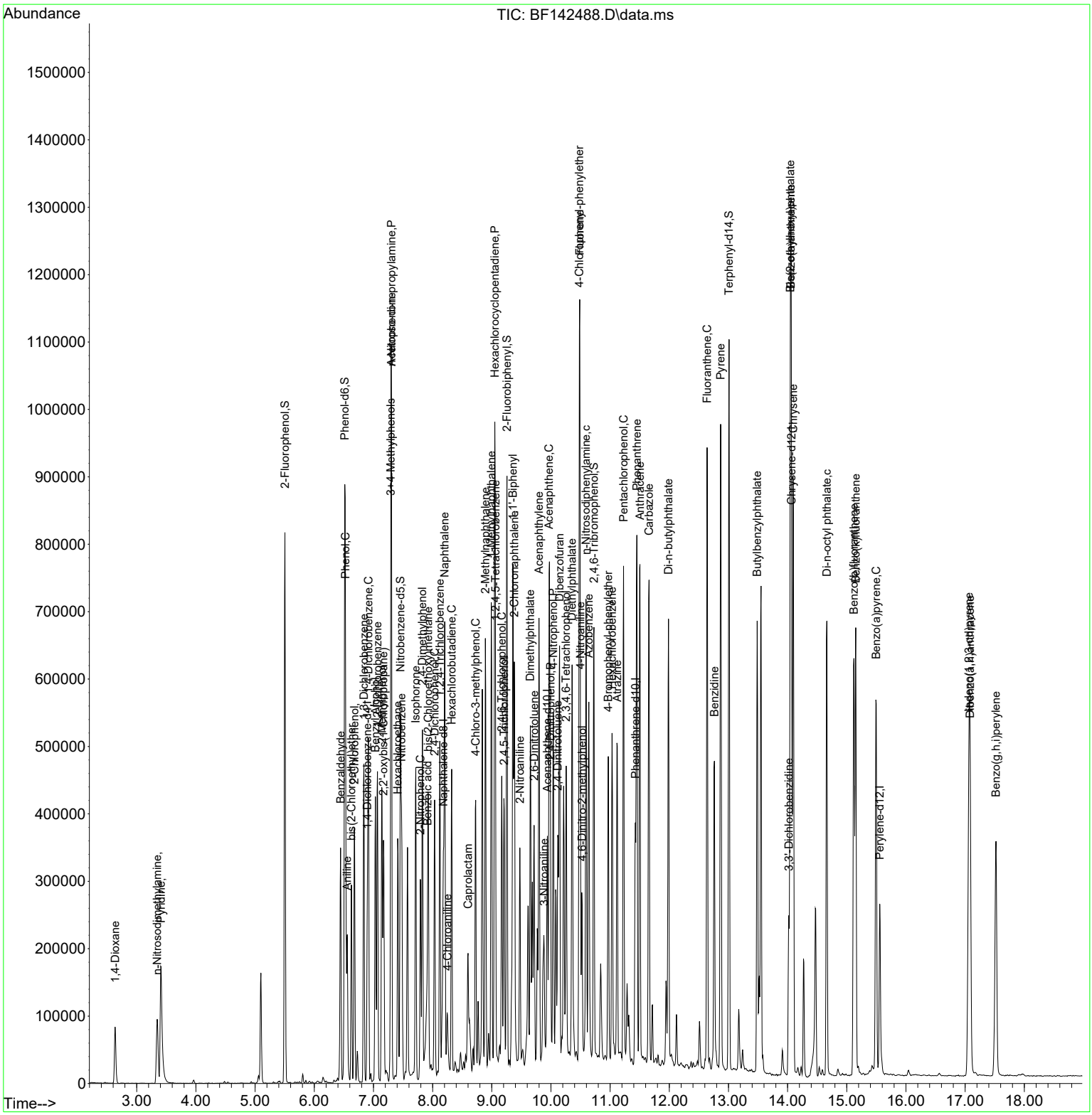
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	80798	41.359	ng		98
46) 1,1'-Biphenyl	9.357	154	318472	42.896	ng		99
47) 2-Chloronaphthalene	9.381	162	232356	42.360	ng		99
48) 2-Nitroaniline	9.475	65	69874	44.071	ng		99
49) Acenaphthylene	9.798	152	396591	42.817	ng		100
50) Dimethylphthalate	9.651	163	265370	42.027	ng		99
51) 2,6-Dinitrotoluene	9.716	165	58315	42.790	ng		100
52) Acenaphthene	9.969	154	265263	46.901	ng		99
53) 3-Nitroaniline	9.886	138	39078	26.253	ng		96
54) 2,4-Dinitrophenol	9.992	184	68143	96.781	ng		96
55) Dibenzofuran	10.145	168	342315	42.059	ng		98
56) 4-Nitrophenol	10.039	139	117563	107.039	ng		100
57) 2,4-Dinitrotoluene	10.116	165	82986	46.626	ng		95
58) Fluorene	10.486	166	270781	43.065	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	67912	41.641	ng	#	97
60) Diethylphthalate	10.357	149	263021	42.650	ng		100
61) 4-Chlorophenyl-phenyle...	10.480	204	127605	41.312	ng		97
62) 4-Nitroaniline	10.498	138	66970	49.607	ng		99
63) Azobenzene	10.639	77	253765	45.814	ng		96
65) 4,6-Dinitro-2-methylph...	10.528	198	44708	44.681	ng		97
66) n-Nitrosodiphenylamine	10.592	169	239679	39.074	ng		99
67) 4-Bromophenyl-phenylether	10.969	248	77907	36.748	ng		99
68) Hexachlorobenzene	11.033	284	89239	38.058	ng		98
69) Atrazine	11.122	200	80957	49.697	ng		99
70) Pentachlorophenol	11.227	266	118109	89.217	ng		99
71) Phenanthrene	11.451	178	416981	43.518	ng		99
72) Anthracene	11.504	178	425552	43.517	ng		99
73) Carbazole	11.657	167	425725	50.924	ng		99
74) Di-n-butylphthalate	11.986	149	464959	50.811	ng		100
75) Fluoranthene	12.639	202	529880	59.183	ng		99
77) Benzidine	12.763	184	260706	40.226	ng		99
78) Pyrene	12.869	202	555060	34.165	ng		100
80) Butylbenzylphthalate	13.486	149	219971	49.000	ng		98
81) Benzo(a)anthracene	14.057	228	488067	41.968	ng		100
82) 3,3'-Dichlorobenzidine	14.021	252	71192	20.183	ng		99
83) Chrysene	14.092	228	449179	42.984	ng		99
84) Bis(2-ethylhexyl)phtha...	14.045	149	300378	52.268	ng		100
85) Di-n-octyl phthalate	14.663	149	480004	42.717	ng		100
87) Indeno(1,2,3-cd)pyrene	17.062	276	397462	35.852	ng		100
88) Benzo(b)fluoranthene	15.121	252	398076	45.547	ng		98
89) Benzo(k)fluoranthene	15.151	252	375338	45.852	ng		99
90) Benzo(a)pyrene	15.498	252	358666	43.537	ng		99
91) Dibenzo(a,h)anthracene	17.086	278	318429	35.415	ng		100
92) Benzo(g,h,i)perylene	17.521	276	318190	35.381	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 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



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

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:	BF052125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168083BS	BF142480.D	4-Chloroaniline	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
PB168083BS	BF142480.D	Benzoic acid	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
PB168083BS	BF142480.D	Caprolactam	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
Q2075-04MS	BF142487.D	Benzoic acid	Rahul	5/22/2025 1:18:43 PM	Jagrut	5/22/2025 2:52:58 PM	Peak Integrated by Software
Q2075-04MS	BF142487.D	Caprolactam	Rahul	5/22/2025 1:18:43 PM	Jagrut	5/22/2025 2:52:58 PM	Peak Integrated by Software
Q2075-05MSD	BF142488.D	Benzoic acid	Rahul	5/22/2025 1:18:48 PM	Jagrut	5/22/2025 2:53:01 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf052225	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2074-01	BF142513.D	Benzo(a)anthracene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-01	BF142513.D	Benzo(b)fluoranthene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-01	BF142513.D	Benzo(k)fluoranthene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(a)anthracene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(b)fluoranthene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(k)fluoranthene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Chrysene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software

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	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 # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM		
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM		
SubDirectory	BF052125	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	BF142477.D	21 May 2025 09:41	RC/JU	Ok
2	SSTDCCC040	BF142478.D	21 May 2025 10:40	RC/JU	Ok
3	PB168083BL	BF142479.D	21 May 2025 11:09	RC/JU	Ok
4	PB168083BS	BF142480.D	21 May 2025 11:37	RC/JU	Ok,M
5	Q2074-02	BF142481.D	21 May 2025 12:14	RC/JU	Ok
6	Q2074-04	BF142482.D	21 May 2025 12:43	RC/JU	Ok
7	Q2074-05	BF142483.D	21 May 2025 13:11	RC/JU	ReRun
8	Q2074-06	BF142484.D	21 May 2025 13:40	RC/JU	Ok
9	Q2074-08	BF142485.D	21 May 2025 14:08	RC/JU	ReRun
10	Q2075-03	BF142486.D	21 May 2025 14:37	RC/JU	Ok
11	Q2075-04MS	BF142487.D	21 May 2025 15:06	RC/JU	Ok,M
12	Q2075-05MSD	BF142488.D	21 May 2025 15:34	RC/JU	Ok,M
13	Q2075-06	BF142489.D	21 May 2025 16:03	RC/JU	Ok
14	Q2068-01	BF142490.D	21 May 2025 16:32	RC/JU	Ok
15	Q2080-01	BF142491.D	21 May 2025 17:10	RC/JU	ReRun
16	Q2080-07	BF142492.D	21 May 2025 17:39	RC/JU	ReRun
17	Q2071-08	BF142493.D	21 May 2025 18:07	RC/JU	ReRun
18	Q2071-12	BF142494.D	21 May 2025 18:36	RC/JU	Ok
19	Q2075-01	BF142495.D	21 May 2025 19:05	RC/JU	ReRun
20	Q2075-02	BF142496.D	21 May 2025 19:34	RC/JU	ReRun
21	Q2074-01	BF142497.D	21 May 2025 20:03	RC/JU	ReRun

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 # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM				
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM				
SubDirectory	BF052125	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	Q2074-03	BF142498.D	21 May 2025 20:32	RC/JU	ReRun
23	Q2074-07	BF142499.D	21 May 2025 21:01	RC/JU	ReRun
24	Q2052-01	BF142500.D	21 May 2025 21:30	RC/JU	ReRun

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 # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM				
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM				
SubDirectory	BF052225	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	BF142501.D	22 May 2025 10:43	RC/JU	Ok
2	SSTDCCC040	BF142502.D	22 May 2025 11:11	RC/JU	Ok
3	PB168104BL	BF142503.D	22 May 2025 11:41	RC/JU	Ok
4	PB168104BS	BF142504.D	22 May 2025 12:09	RC/JU	Ok,M
5	Q2074-05	BF142505.D	22 May 2025 12:42	RC/JU	Ok
6	Q2074-08	BF142506.D	22 May 2025 13:11	RC/JU	Ok
7	Q2080-01	BF142507.D	22 May 2025 13:40	RC/JU	Ok
8	Q2080-07	BF142508.D	22 May 2025 14:09	RC/JU	Ok
9	Q2071-08	BF142509.D	22 May 2025 14:38	RC/JU	Ok
10	Q2075-01	BF142510.D	22 May 2025 15:07	RC/JU	Ok,M
11	Q2075-02	BF142511.D	22 May 2025 15:36	RC/JU	Ok,M
12	Q2052-01	BF142512.D	22 May 2025 16:04	RC/JU	Ok,M
13	Q2074-01	BF142513.D	22 May 2025 16:34	RC/JU	Ok,M
14	Q2074-03	BF142514.D	22 May 2025 17:03	RC/JU	Ok
15	Q2074-07	BF142515.D	22 May 2025 17:32	RC/JU	Ok,M
16	Q2092-01	BF142516.D	22 May 2025 18:00	RC/JU	Ok
17	Q2097-06	BF142517.D	22 May 2025 18:29	RC/JU	Ok
18	Q2097-08	BF142518.D	22 May 2025 18:58	RC/JU	Ok
19	Q2097-10	BF142519.D	22 May 2025 19:27	RC/JU	Ok
20	Q2097-14	BF142520.D	22 May 2025 19:56	RC/JU	Ok
21	Q2095-05	BF142521.D	22 May 2025 20:25	RC/JU	Ok

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 # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM				
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM				
SubDirectory	BF052225	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	Q2097-17	BF142522.D	22 May 2025 20:53	RC/JU	Ok
23	Q2101-01	BF142523.D	22 May 2025 21:22	RC/JU	Ok,M
24	Q2104-01	BF142524.D	22 May 2025 21:51	RC/JU	Ok,M
25	Q2095-01	BF142525.D	22 May 2025 22:20	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 # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM		
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM		
SubDirectory	BF052125	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	BF142477.D	21 May 2025 09:41		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142478.D	21 May 2025 10:40		RC/JU	Ok
3	PB168083BL	PB168083BL	BF142479.D	21 May 2025 11:09		RC/JU	Ok
4	PB168083BS	PB168083BS	BF142480.D	21 May 2025 11:37		RC/JU	Ok,M
5	Q2074-02	TP-7	BF142481.D	21 May 2025 12:14		RC/JU	Ok
6	Q2074-04	TP-20	BF142482.D	21 May 2025 12:43		RC/JU	Ok
7	Q2074-05	TP-38	BF142483.D	21 May 2025 13:11	Internal Standard Fail	RC/JU	ReRun
8	Q2074-06	TP-19	BF142484.D	21 May 2025 13:40		RC/JU	Ok
9	Q2074-08	TP-18	BF142485.D	21 May 2025 14:08	Internal Standard Fail	RC/JU	ReRun
10	Q2075-03	SS-11	BF142486.D	21 May 2025 14:37		RC/JU	Ok
11	Q2075-04MS	SS-11MS	BF142487.D	21 May 2025 15:06	Internal Standard Fail	RC/JU	Ok,M
12	Q2075-05MSD	SS-11MSD	BF142488.D	21 May 2025 15:34	Internal Standard Fail	RC/JU	Ok,M
13	Q2075-06	SS-MW1-11.5	BF142489.D	21 May 2025 16:03	Internal Standard Fail	RC/JU	Ok
14	Q2068-01	LAW-25-0075	BF142490.D	21 May 2025 16:32	Internal Standard Fail	RC/JU	Ok
15	Q2080-01	PL-HRH-COMP-01	BF142491.D	21 May 2025 17:10	Internal Standard Fail	RC/JU	ReRun
16	Q2080-07	PL-HRH-COMP-02	BF142492.D	21 May 2025 17:39	Internal Standard Fail	RC/JU	ReRun
17	Q2071-08	L1-WC-8	BF142493.D	21 May 2025 18:07	Internal Standard Fail	RC/JU	ReRun
18	Q2071-12	L1-WC-9	BF142494.D	21 May 2025 18:36		RC/JU	Ok

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 # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM		
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM		
SubDirectory	BF052125	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	Q2075-01	SS-10	BF142495.D	21 May 2025 19:05	Internal Standard Fail	RC/JU	ReRun
20	Q2075-02	SS-910	BF142496.D	21 May 2025 19:34	Internal Standard Fail	RC/JU	ReRun
21	Q2074-01	TP-12	BF142497.D	21 May 2025 20:03	Internal Standard Fail	RC/JU	ReRun
22	Q2074-03	TP-15	BF142498.D	21 May 2025 20:32	Internal Standard Fail	RC/JU	ReRun
23	Q2074-07	TP-40	BF142499.D	21 May 2025 21:01	Internal Standard Fail	RC/JU	ReRun
24	Q2052-01	TP-B	BF142500.D	21 May 2025 21:30	Internal Standard Fail	RC/JU	ReRun

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 # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM		
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM		
SubDirectory	BF052225	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	BF142501.D	22 May 2025 10:43		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142502.D	22 May 2025 11:11		RC/JU	Ok
3	PB168104BL	PB168104BL	BF142503.D	22 May 2025 11:41		RC/JU	Ok
4	PB168104BS	PB168104BS	BF142504.D	22 May 2025 12:09		RC/JU	Ok,M
5	Q2074-05	TP-38	BF142505.D	22 May 2025 12:42		RC/JU	Ok
6	Q2074-08	TP-18	BF142506.D	22 May 2025 13:11		RC/JU	Ok
7	Q2080-01	PL-HRH-COMP-01	BF142507.D	22 May 2025 13:40		RC/JU	Ok
8	Q2080-07	PL-HRH-COMP-02	BF142508.D	22 May 2025 14:09		RC/JU	Ok
9	Q2071-08	L1-WC-8	BF142509.D	22 May 2025 14:38		RC/JU	Ok
10	Q2075-01	SS-10	BF142510.D	22 May 2025 15:07		RC/JU	Ok,M
11	Q2075-02	SS-910	BF142511.D	22 May 2025 15:36		RC/JU	Ok,M
12	Q2052-01	TP-B	BF142512.D	22 May 2025 16:04		RC/JU	Ok,M
13	Q2074-01	TP-12	BF142513.D	22 May 2025 16:34		RC/JU	Ok,M
14	Q2074-03	TP-15	BF142514.D	22 May 2025 17:03		RC/JU	Ok
15	Q2074-07	TP-40	BF142515.D	22 May 2025 17:32		RC/JU	Ok,M
16	Q2092-01	VNJ-202	BF142516.D	22 May 2025 18:00		RC/JU	Ok
17	Q2097-06	RBR251675	BF142517.D	22 May 2025 18:29		RC/JU	Ok
18	Q2097-08	VNJ-244	BF142518.D	22 May 2025 18:58		RC/JU	Ok

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 # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM		
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM		
SubDirectory	BF052225	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	Q2097-10	ETGI-290	BF142519.D	22 May 2025 19:27		RC/JU	Ok
20	Q2097-14	RBR251372	BF142520.D	22 May 2025 19:56		RC/JU	Ok
21	Q2095-05	WCS-TP2	BF142521.D	22 May 2025 20:25		RC/JU	Ok
22	Q2097-17	RT-3888	BF142522.D	22 May 2025 20:53		RC/JU	Ok
23	Q2101-01	TP-1-MHE	BF142523.D	22 May 2025 21:22		RC/JU	Ok,M
24	Q2104-01	TR-06-052125	BF142524.D	22 May 2025 21:51		RC/JU	Ok,M
25	Q2095-01	WCS-TP1	BF142525.D	22 May 2025 22:20		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168083

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/20/2025
Matrix :	Solid			**Extraction Start Time :**	09:45
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/20/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	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	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/20/25	RS (Ext lab)	RL/SVOC
13:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168083

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/20/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168083BL	SBLK083	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U6-1
PB168083BS	SLCS083	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q2074-01	TP-12	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		3
Q2074-02	TP-7	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2074-03	TP-15	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
Q2074-04	TP-20	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		6
Q2074-05	TP-38	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U1-1
Q2074-06	TP-19	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		2
Q2074-07	TP-40	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q2074-08	TP-18	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		4
Q2075-01	SS-10	SVOCMS Group3	30.01	N/A	ritesh	Evelyn	1	E		5
Q2075-02	SS-910	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		6
Q2075-03	SS-11	SVOCMS Group3	30.04	N/A	ritesh	Evelyn	1	E		U2-1
Q2075-04	Q2075-03MS	SVOCMS Group3	30.07	N/A	ritesh	Evelyn	1	E		2
Q2075-05	Q2075-03MSD	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		3
Q2075-06	SS-MW1-11.5	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		4
Q2080-01	PL-HRH-COMP-01	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		5
Q2080-07	PL-HRH-COMP-02	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		6

RS 5/20

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

680083
9:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2080BN **WorkList ID :** 189621 **Department :** Extraction **Date :** 05-20-2025 08:37:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2074-01	TP-12	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-02	TP-7	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-03	TP-15	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-04	TP-20	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-05	TP-38	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-06	TP-19	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-07	TP-40	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-08	TP-18	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2075-01	SS-10	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-02	SS-910	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-03	SS-11	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-04	Q2075-03MS	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-05	Q2075-03MSD	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-06	SS-MW1-11.5	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/16/2025	8270E
Q2080-01	PL-HRH-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/19/2025	8270E
Q2080-07	PL-HRH-COMP-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/19/2025	8270E

Date/Time 05/20/25 9:40
Raw Sample Received by: RJ LEFT-(ccm)
Raw Sample Relinquished by:

Date/Time 05/20/25 10:05
Raw Sample Received by:
Raw Sample Relinquished by: RJ LEFT-(ccm)

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

LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-07	**TP-40**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-08	**TP-18**	**SOIL**			**05/16/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	