284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : P4397

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4397-01	WB-301-TOP
P4397-02	WB-301-BOT
P4397-04	WB-301-SW
P4397-05	TB-10102024
P4397-06	WB-301-BOT

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/24/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4397**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **KETAN PATEL** **Date:** **10/24/2024**

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LAB CHRONICLE

OrderID:	P4397	**OrderDate:**	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	**WB-301-TOP**	**SOIL**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/14/24	10/23/24	
P4397-02	**WB-301-BOT**	**SOIL**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/14/24	10/23/24	
P4397-04	**WB-301-SW**	**Water**			**10/10/24**			**10/11/24**
			SVOC-TCL BNA -20	8270E		10/15/24	10/23/24	

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Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-301-TOP**								
P4397-01	WB-301-TOP	SOIL	Naphthalene		1,400.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Methylnaphthalene		1,200.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,1-Biphenyl		160.000	J	140	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Acenaphthylene		170.000	J	140	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Acenaphthene		1,300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluorene		780.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene		2,500.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Anthracene		1,000.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluoranthene		1,300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Pyrene		1,200.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(a)anthracene		870.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Chrysene		890.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(b)fluoranthene		580.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(k)fluoranthene		300.000		130	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(a)pyrene		760.000		150	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Indeno(1,2,3-cd)pyrene		160.000	J	120	270	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzo(g,h,i)perylene		190.000	J	130	270	ug/Kg
			Total Svoc :		**14,760.00**				
P4397-01	WB-301-TOP	SOIL	.alpha.-Amyrone	*	470.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1H-1,2,4-Triazol-5-amine, 3-brom	*	1,700.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	9H-Fluorene, 1-methyl-	*	430.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Anthracene, 2-methyl-	*	420.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1,1-(1,3-butadiyne-1,4-d	*	450.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzophenone	*	570.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	4,100.000	JB	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Cholestan-3-one	*	380.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Dibenzothiophene	*	420.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Fluoranthene, 2-methyl-	*	390.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 1,2-dimethyl-	*	420.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2,3-dimethyl-	*	800.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2,7-dimethyl-	*	520.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Naphthalene, 2-ethyl-	*	580.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 1-methyl-	*	850.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 2,5-dimethyl-	*	550.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Phenanthrene, 2-methyl-	*	730.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	unknown10.839	*	380.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	unknown17.298	*	360.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4397-01	WB-301-TOP	SOIL	Indeno[2,1-a]indene, 5,10-dihydrc	*	510.000	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1-Methylnaphthalene	*	1,100.000	J	130	270	ug/Kg
			Total Tics :		**16,130.00**				
			Total Concentration:		**30,890.00**				
Client ID :	**WB-301-BOT**								
P4397-02	WB-301-BOT	SOIL	Acenaphthene		140.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Phenanthrene		330.000		110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Anthracene		110.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Fluoranthene		150.000	J	110	220	ug/Kg
P4397-02	WB-301-BOT	SOIL	Pyrene		130.000	J	110	220	ug/Kg
			Total Svoc :		**860.00**				
P4397-02	WB-301-BOT	SOIL	2-Bromo dodecane	*	110.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Heptadecyl heptafluorobutyrate	*	160.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Hexadecane	*	91.600	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Methanone, (1-hydroxycyclohexy	*	96.900	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Naphthalene, 2,3-dimethyl-	*	110.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	n-Hexadecanoic acid	*	340.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Nonadecane	*	91.200	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	unknown12.022	*	150.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	unknown12.498	*	100.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Benzophenone	*	690.000	J	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	4,000.000	JB	0	0	ug/Kg
P4397-02	WB-301-BOT	SOIL	Cholestan-3-one	*	100.000	J	0	0	ug/Kg
			Total Tics :		**6,309.70**				
			Total Concentration:		**7,169.70**				
Client ID :	**WB-301-SW**								
P4397-04	WB-301-SW	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	2.600	AB	0	0	ug/L
P4397-04	WB-301-SW	WATER	Benzophenone	*	2.600	J	0	0	ug/L
P4397-04	WB-301-SW	WATER	Butane, 2-methoxy-2-methyl-	*	220.000	JB	0	0	ug/L
P4397-04	WB-301-SW	WATER	n-Hexadecanoic acid	*	2.100	J	0	0	ug/L
			Total Tics :		**227.30**				
			Total Concentration:		**227.30**				

QC SUMMARY

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

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4397-01	WB-301-TOP	2-Fluorophenol	150	87.5	58		30 (18)	130 (112)
		Phenol-d6	150	83.3	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.9	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.6	60		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	75.7	50		30 (10)	130 (116)
		Terphenyl-d14	100	40.6	41		30 (10)	130 (105)
P4397-02	WB-301-BOT	2-Fluorophenol	150	113	76		30 (18)	130 (112)
		Phenol-d6	150	108	72		30 (15)	130 (107)
		Nitrobenzene-d5	100	83.8	84		30 (18)	130 (107)
		2-Fluorobiphenyl	100	85.6	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	57.6	58		30 (10)	130 (105)
P4397-02MS	WB-301-BOTMS	2-Fluorophenol	150	115	76		30 (18)	130 (112)
		Phenol-d6	150	111	74		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.2	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	87.7	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	114	76		30 (10)	130 (116)
		Terphenyl-d14	100	62.7	63		30 (10)	130 (105)
P4397-02MSD	WB-301-BOTMSD	2-Fluorophenol	150	116	77		30 (18)	130 (112)
		Phenol-d6	150	113	75		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.7	88		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.8	87		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	115	77		30 (10)	130 (116)
		Terphenyl-d14	100	62.7	63		30 (10)	130 (105)
PB164123BL	PB164123BL	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	136	90		30 (15)	130 (107)
		Nitrobenzene-d5	100	96.9	97		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.2	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	145	97		30 (10)	130 (116)
		Terphenyl-d14	100	90.4	90		30 (10)	130 (105)
PB164123BS	PB164123BS	2-Fluorophenol	150	131	87		30 (18)	130 (112)
		Phenol-d6	150	128	85		30 (15)	130 (107)
		Nitrobenzene-d5	100	96.9	97		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.6	92		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	158	105		30 (10)	130 (116)
		Terphenyl-d14	100	103	103		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4397-04	WB-301-SW	2-Fluorophenol	150	63.8	43		15 (10)	110 (139)
		Phenol-d6	150	44.2	29		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.9	97		30 (49)	130 (133)
		2-Fluorobiphenyl	100	95.7	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	112	75		15 (44)	110 (137)
		Terphenyl-d14	100	67.3	67		30 (48)	130 (125)
PB164154BL	PB164154BL	2-Fluorophenol	150	127	85		15 (10)	110 (139)
		Phenol-d6	150	125	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	95.0	95		30 (49)	130 (133)
		2-Fluorobiphenyl	100	88.9	89		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	147	98		15 (44)	110 (137)
		Terphenyl-d14	100	93.8	94		30 (48)	130 (125)
PB164154BS	PB164154BS	2-Fluorophenol	150	129	86		15 (10)	110 (139)
		Phenol-d6	150	127	85		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.5	98		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.3	93		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	159	106		15 (44)	110 (137)
		Terphenyl-d14	100	98.4	98		30 (48)	130 (125)
PB164154BSD	PB164154BSD	2-Fluorophenol	150	128	85		15 (10)	110 (139)
		Phenol-d6	150	126	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.3	96		30 (49)	130 (133)
		2-Fluorobiphenyl	100	90.4	90		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	161	107		15 (44)	110 (137)
		Terphenyl-d14	100	100	100		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4397-02MS		**Client Sample ID: WB-301-BOTMS**						**DataFile: BF139977.D**			
Benzaldehyde	2200	0	830	ug/Kg	38				20 (10)	160 (86)	
Phenol	2200	0	2100	ug/Kg	95				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2200	0	2200	ug/Kg	100				70 (54)	130 (125)	
2-Chlorophenol	2200	0	2200	ug/Kg	100				70 (79)	130 (107)	
2-Methylphenol	2200	0	2200	ug/Kg	100				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2200	0	2100	ug/Kg	95				70 (65)	130 (110)	
Acetophenone	2200	0	2200	ug/Kg	100				70 (75)	130 (111)	
3+4-Methylphenols	2200	0	2100	ug/Kg	95				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2200	0	2100	ug/Kg	95				70 (59)	130 (119)	
Hexachloroethane	2200	0	2100	ug/Kg	95				20 (65)	160 (117)	
Nitrobenzene	2200	0	2200	ug/Kg	100				70 (70)	130 (119)	
Isophorone	2200	0	2200	ug/Kg	100				70 (76)	130 (122)	
2-Nitrophenol	2200	0	2600	ug/Kg	118				70 (54)	130 (145)	
2,4-Dimethylphenol	2200	0	2500	ug/Kg	114				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2200	0	2200	ug/Kg	100				70 (68)	130 (112)	
2,4-Dichlorophenol	2200	0	2200	ug/Kg	100				70 (72)	130 (118)	
Naphthalene	2200	0	2200	ug/Kg	100				70 (72)	130 (110)	
4-Chloroaniline	2200	0	550	ug/Kg	25	*			70 (10)	130 (91)	
Hexachlorobutadiene	2200	0	2200	ug/Kg	100				70 (66)	130 (114)	
Caprolactam	2200	0	2100	ug/Kg	95				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2200	0	2100	ug/Kg	95				70 (57)	130 (132)	
2-Methylnaphthalene	2200	0	2200	ug/Kg	100				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4400	0	3100	ug/Kg	70				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2200	0	2400	ug/Kg	109				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2200	0	2200	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	2200	0	2300	ug/Kg	105				70 (75)	130 (113)	
2-Chloronaphthalene	2200	0	2200	ug/Kg	100				70 (67)	130 (118)	
2-Nitroaniline	2200	0	2400	ug/Kg	109				70 (69)	130 (127)	
Dimethylphthalate	2200	0	2400	ug/Kg	109				70 (70)	130 (113)	
Acenaphthylene	2200	0	2300	ug/Kg	105				70 (79)	130 (118)	
2,6-Dinitrotoluene	2200	0	2300	ug/Kg	105				70 (70)	130 (125)	
3-Nitroaniline	2200	0	1300	ug/Kg	59	*			70 (30)	130 (99)	
Acenaphthene	2200	140	2400	ug/Kg	103				70 (70)	130 (121)	
2,4-Dinitrophenol	4400	0	2400	ug/Kg	55				20 (10)	160 (155)	
4-Nitrophenol	4400	0	4100	ug/Kg	93				20 (45)	160 (133)	
Dibenzofuran	2200	0	2200	ug/Kg	100				70 (72)	130 (110)	
2,4-Dinitrotoluene	2200	0	2400	ug/Kg	109				70 (55)	130 (128)	
Diethylphthalate	2200	0	2200	ug/Kg	100				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2200	0	2200	ug/Kg	100				70 (71)	130 (108)	
Fluorene	2200	0	2100	ug/Kg	95				70 (68)	130 (116)	
4-Nitroaniline	2200	0	1900	ug/Kg	86				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2200	0	1900	ug/Kg	86				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2200	0	2600	ug/Kg	118				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2200	0	2600	ug/Kg	118				70 (65)	130 (121)	
Hexachlorobenzene	2200	0	2400	ug/Kg	109				70 (67)	130 (118)	
Atrazine	2200	0	2900	ug/Kg	132	*			70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4400	0	4400	ug/Kg	100				20 (47)	160 (128)	
Phenanthrene	2200	330	2600	ug/Kg	103				70 (52)	130 (128)	
Anthracene	2200	110	2500	ug/Kg	109				70 (62)	130 (124)	
Carbazole	2200	0	2200	ug/Kg	100				70 (59)	130 (119)	
Di-n-butylphthalate	2200	0	2500	ug/Kg	114				70 (69)	130 (118)	
Fluoranthene	2200	150	2400	ug/Kg	102				70 (44)	130 (125)	
Pyrene	2200	130	1800	ug/Kg	76				70 (26)	130 (142)	
Butylbenzylphthalate	2200	0	2400	ug/Kg	109				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2200	0	1800	ug/Kg	82				70 (33)	130 (116)	
Benzo(a)anthracene	2200	0	2400	ug/Kg	109				70 (71)	130 (114)	
Chrysene	2200	0	2400	ug/Kg	109				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2200	0	3000	ug/Kg	136	*			70 (42)	130 (169)	
Di-n-octyl phthalate	2200	0	3100	ug/Kg	141	*			70 (23)	130 (175)	
Benzo(b)fluoranthene	2200	0	2600	ug/Kg	118				70 (67)	130 (121)	
Benzo(k)fluoranthene	2200	0	2400	ug/Kg	109				70 (57)	130 (134)	
Benzo(a)pyrene	2200	0	2500	ug/Kg	114				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2200	0	1500	ug/Kg	68	*			70 (40)	130 (129)	
Dibenz(a,h)anthracene	2200	0	1600	ug/Kg	73				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2200	0	1300	ug/Kg	59	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2200	0	2400	ug/Kg	109				70 (69)	130 (124)	
1,4-Dioxane	2200	0	2100	ug/Kg	95				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2200	0	2100	ug/Kg	95				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4397-02MSD		**Client Sample ID: WB-301-BOTMSD**						**DataFile: BF139978.D**			
Benzaldehyde	2200	0	830	ug/Kg	38		0		20 (10)	160 (86)	30 (20)
Phenol	2200	0	2200	ug/Kg	100		5		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2200	0	2200	ug/Kg	100		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2200	0	2300	ug/Kg	105		5		70 (79)	130 (107)	30 (20)
2-Methylphenol	2200	0	2200	ug/Kg	100		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2200	0	2100	ug/Kg	95		0		70 (65)	130 (110)	30 (20)
Acetophenone	2200	0	2200	ug/Kg	100		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2200	0	2100	ug/Kg	95		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2200	0	2100	ug/Kg	95		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	2200	0	2200	ug/Kg	100		5		20 (65)	160 (117)	30 (20)
Nitrobenzene	2200	0	2100	ug/Kg	95		5		70 (70)	130 (119)	30 (20)
Isophorone	2200	0	2200	ug/Kg	100		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2200	0	2700	ug/Kg	123		4		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2200	0	2600	ug/Kg	118		3		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2200	0	2200	ug/Kg	100		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2200	0	2200	ug/Kg	100		0		70 (72)	130 (118)	30 (20)
Naphthalene	2200	0	2200	ug/Kg	100		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2200	0	590	ug/Kg	27	*	8		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2200	0	2200	ug/Kg	100		0		70 (66)	130 (114)	30 (20)
Caprolactam	2200	0	2100	ug/Kg	95		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2200	0	2100	ug/Kg	95		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2200	0	2200	ug/Kg	100		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4400	0	3400	ug/Kg	77		10		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2200	0	2400	ug/Kg	109		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2200	0	2200	ug/Kg	100		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2200	0	2300	ug/Kg	105		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2200	0	2200	ug/Kg	100		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2200	0	2400	ug/Kg	109		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2200	0	2300	ug/Kg	105		4		70 (70)	130 (113)	30 (20)
Acenaphthylene	2200	0	2300	ug/Kg	105		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2200	0	2300	ug/Kg	105		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2200	0	1300	ug/Kg	59	*	0		70 (30)	130 (99)	30 (20)
Acenaphthene	2200	140	2400	ug/Kg	103		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4400	0	3000	ug/Kg	68		21		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4400	0	4200	ug/Kg	95		2		20 (45)	160 (133)	30 (20)
Dibenzofuran	2200	0	2200	ug/Kg	100		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2200	0	2400	ug/Kg	109		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2200	0	2200	ug/Kg	100		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2200	0	2100	ug/Kg	95		5		70 (71)	130 (108)	30 (20)
Fluorene	2200	0	2100	ug/Kg	95		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2200	0	1900	ug/Kg	86		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2200	0	2200	ug/Kg	100		15		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2200	0	2500	ug/Kg	114		3		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2200	0	2500	ug/Kg	114		3		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2200	0	2300	ug/Kg	105		4		70 (67)	130 (118)	30 (20)
Atrazine	2200	0	2900	ug/Kg	132	*	0		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4400	0	4400	ug/Kg	100		0		20 (47)	160 (128)	30 (20)
Phenanthrene	2200	330	2500	ug/Kg	99		4		70 (52)	130 (128)	30 (20)
Anthracene	2200	110	2400	ug/Kg	104		5		70 (62)	130 (124)	30 (20)
Carbazole	2200	0	2200	ug/Kg	100		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2200	0	2500	ug/Kg	114		0		70 (69)	130 (118)	30 (20)
Fluoranthene	2200	150	2400	ug/Kg	102		0		70 (44)	130 (125)	30 (20)
Pyrene	2200	130	1800	ug/Kg	76		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2200	0	2500	ug/Kg	114		4		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2200	0	1900	ug/Kg	86		5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2200	0	2300	ug/Kg	105		4		70 (71)	130 (114)	30 (20)
Chrysene	2200	0	2400	ug/Kg	109		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2200	0	3000	ug/Kg	136	*	0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2200	0	3000	ug/Kg	136	*	4		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2200	0	2700	ug/Kg	123		4		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2200	0	2400	ug/Kg	109		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2200	0	2500	ug/Kg	114		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2200	0	1600	ug/Kg	73		7		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2200	0	1600	ug/Kg	73		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2200	0	1300	ug/Kg	59	*	0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2200	0	2400	ug/Kg	109		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2200	0	2100	ug/Kg	95		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2200	0	2100	ug/Kg	95		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139959.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164123BS	Benzaldehyde	1700	580	ug/Kg	34				20 (10)	160 (133)	
	Phenol	1700	1600	ug/Kg	94				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	2-Chlorophenol	1700	1700	ug/Kg	100				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1600	ug/Kg	94				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1900	ug/Kg	112				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1600	ug/Kg	94				70 (62)	130 (100)	
	4-Chloroaniline	1700	860	ug/Kg	51		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1700	ug/Kg	100				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5900	ug/Kg	179		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1800	ug/Kg	106				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1800	ug/Kg	106				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	4400	ug/Kg	133				20 (37)	160 (128)	
	4-Nitrophenol	3300	3500	ug/Kg	106				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1900	ug/Kg	112				70 (60)	130 (106)	
	Diethylphthalate	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1800	ug/Kg	106				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2300	ug/Kg	135		*		70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139959.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164123BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1900	ug/Kg	112				70 (47)	130 (152)	
	Pentachlorophenol	3300	3400	ug/Kg	103				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1700	ug/Kg	100				70 (61)	130 (105)	
	Carbazole	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)	
	Pyrene	1700	1700	ug/Kg	100				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1300	ug/Kg	76				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				70 (60)	130 (102)	
	Chrysene	1700	1700	ug/Kg	100				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1900	ug/Kg	112				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1900	ug/Kg	112				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				70 (53)	130 (101)	
	1,4-Dioxane	1700	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139960.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BS	Benzaldehyde	50	17.2	ug/L	34				20 (10)	160 (162)	
	Phenol	50	46.9	ug/L	94				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	46.9	ug/L	94				70 (62)	130 (103)	
	2-Chlorophenol	50	49.8	ug/L	100				70 (70)	130 (117)	
	2-Methylphenol	50	48.9	ug/L	98				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	46.0	ug/L	92				70 (65)	130 (100)	
	Acetophenone	50	46.3	ug/L	93				70 (60)	130 (104)	
	3+4-Methylphenols	50	46.5	ug/L	93				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	46.7	ug/L	93				70 (57)	130 (107)	
	Hexachloroethane	50	47.3	ug/L	95				20 (76)	160 (118)	
	Nitrobenzene	50	46.2	ug/L	92				70 (58)	130 (106)	
	Isophorone	50	48.7	ug/L	97				70 (61)	130 (102)	
	2-Nitrophenol	50	58.6	ug/L	117				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	57.2	ug/L	114				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	48.3	ug/L	97				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	49.9	ug/L	100				70 (66)	130 (115)	
	Naphthalene	50	46.9	ug/L	94				70 (64)	130 (107)	
	4-Chloroaniline	50	21.5	ug/L	43		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	47.9	ug/L	96				70 (69)	130 (101)	
	Caprolactam	50	49.5	ug/L	99				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	49.5	ug/L	99				70 (65)	130 (114)	
	2-Methylnaphthalene	50	48.6	ug/L	97				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	180	ug/L	180		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	52.2	ug/L	104				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	49.7	ug/L	99				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.5	ug/L	95				70 (72)	130 (98)	
	2-Chloronaphthalene	50	46.5	ug/L	93				70 (59)	130 (106)	
	2-Nitroaniline	50	54.0	ug/L	108				70 (73)	130 (114)	
	Dimethylphthalate	50	50.5	ug/L	101				70 (64)	130 (103)	
	Acenaphthylene	50	50.9	ug/L	102				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	52.4	ug/L	105				70 (64)	130 (110)	
	3-Nitroaniline	50	31.2	ug/L	62		*		70 (28)	130 (100)	
	Acenaphthene	50	55.1	ug/L	110				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	130	ug/L	130				20 (36)	160 (166)	
	4-Nitrophenol	100	110	ug/L	110				20 (45)	160 (147)	
	Dibenzofuran	50	48.2	ug/L	96				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	57.8	ug/L	116				70 (60)	130 (115)	
	Diethylphthalate	50	49.9	ug/L	100				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	48.4	ug/L	97				70 (61)	130 (104)	
	Fluorene	50	48.1	ug/L	96				70 (64)	130 (107)	
	4-Nitroaniline	50	52.6	ug/L	105				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	70.2	ug/L	140		*		70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	48.0	ug/L	96				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	49.9	ug/L	100				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139960.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BS	Hexachlorobenzene	50	49.6	ug/L	99				70 (73)	130 (106)	
	Atrazine	50	58.1	ug/L	116				70 (76)	130 (120)	
	Pentachlorophenol	100	99.9	ug/L	100				20 (47)	160 (114)	
	Phenanthrene	50	48.2	ug/L	96				70 (62)	130 (109)	
	Anthracene	50	50.3	ug/L	101				70 (65)	130 (110)	
	Carbazole	50	46.4	ug/L	93				70 (62)	130 (106)	
	Di-n-butylphthalate	50	49.0	ug/L	98				70 (64)	130 (106)	
	Fluoranthene	50	47.2	ug/L	94				70 (64)	130 (110)	
	Pyrene	50	48.5	ug/L	97				70 (71)	130 (103)	
	Butylbenzylphthalate	50	54.0	ug/L	108				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	35.3	ug/L	71				70 (43)	130 (108)	
	Benzo(a)anthracene	50	50.3	ug/L	101				70 (62)	130 (107)	
	Chrysene	50	50.9	ug/L	102				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	57.8	ug/L	116				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	57.1	ug/L	114				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	49.8	ug/L	100				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	48.7	ug/L	97				70 (77)	130 (105)	
	Benzo(a)pyrene	50	53.5	ug/L	107				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	53.2	ug/L	106				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	52.3	ug/L	105				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	48.5	ug/L	97				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	47.4	ug/L	95				70 (72)	130 (101)	
	1,4-Dioxane	50	39.2	ug/L	78				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	53.8	ug/L	108				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139961.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BSD	Benzaldehyde	50	17.2	ug/L	34	0			20 (10)	160 (162)	20 (20)
	Phenol	50	46.9	ug/L	94	0			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	46.4	ug/L	93	1			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	49.6	ug/L	99	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	48.5	ug/L	97	1			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	45.7	ug/L	91	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	45.3	ug/L	91	2			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.7	ug/L	91	2			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	46.4	ug/L	93	1			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	47.3	ug/L	95	0			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	45.5	ug/L	91	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	47.3	ug/L	95	3			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	57.9	ug/L	116	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	55.8	ug/L	112	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	46.7	ug/L	93	3			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	48.8	ug/L	98	2			70 (66)	130 (115)	20 (20)
	Naphthalene	50	45.8	ug/L	92	2			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	19.8	ug/L	40	8	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	46.7	ug/L	93	3			70 (69)	130 (101)	20 (20)
	Caprolactam	50	51.4	ug/L	103	4			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	48.4	ug/L	97	2			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	47.3	ug/L	95	3			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	170	ug/L	170	6	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	50.9	ug/L	102	3			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	49.6	ug/L	99	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	46.7	ug/L	93	2			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	46.1	ug/L	92	1			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	53.8	ug/L	108	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	49.8	ug/L	100	1			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	50.5	ug/L	101	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	52.2	ug/L	104	0			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	30.7	ug/L	61	2	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	53.9	ug/L	108	2			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	130	ug/L	130	0			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	110	ug/L	110	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	47.6	ug/L	95	1			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	57.7	ug/L	115	0			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	49.0	ug/L	98	2			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	47.6	ug/L	95	2			70 (61)	130 (104)	20 (20)
	Fluorene	50	47.4	ug/L	95	1			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	52.6	ug/L	105	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	70.5	ug/L	141	0	*		70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	47.7	ug/L	95	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	48.7	ug/L	97	2			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139961.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164154BSD	Hexachlorobenzene	50	47.9	ug/L	96	3			70 (73)	130 (106)	20 (20)
	Atrazine	50	58.6	ug/L	117	1			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	100	ug/L	100	0			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	47.5	ug/L	95	1			70 (62)	130 (109)	20 (20)
	Anthracene	50	49.3	ug/L	99	2			70 (65)	130 (110)	20 (20)
	Carbazole	50	46.6	ug/L	93	0			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	48.8	ug/L	98	0			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	46.5	ug/L	93	1			70 (64)	130 (110)	20 (20)
	Pyrene	50	49.5	ug/L	99	2			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	55.1	ug/L	110	2			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	34.2	ug/L	68	3	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	49.8	ug/L	100	1			70 (62)	130 (107)	20 (20)
	Chrysene	50	50.6	ug/L	101	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	57.5	ug/L	115	1			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	53.8	ug/L	108	6			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	49.3	ug/L	99	1			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	48.9	ug/L	98	0			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	54.2	ug/L	108	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	54.0	ug/L	108	1			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	53.1	ug/L	106	2			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	48.9	ug/L	98	1			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	46.8	ug/L	94	1			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.3	ug/L	79	0			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	53.9	ug/L	108	0			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164123BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139893.D Lab Sample ID: PB164123BL

Instrument ID: BNA_F Date Extracted: 10/14/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/21/2024

Level: (low/med) LOW Time Analyzed: 10:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WB-301-BOT	P4397-02	BF139976.D	10/23/2024
WB-301-BOTMS	P4397-02MS	BF139977.D	10/23/2024
WB-301-BOTMSD	P4397-02MSD	BF139978.D	10/23/2024
WB-301-TOP	P4397-01	BF139979.D	10/23/2024
PB164123BS	PB164123BS	BF139959.D	10/23/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164154BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139928.D Lab Sample ID: PB164154BL

Instrument ID: BNA_F Date Extracted: 10/15/2024

Matrix: (soil/water) Water Date Analyzed: 10/22/2024

Level: (low/med) LOW Time Analyzed: 14:58

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164154BS	PB164154BS	BF139960.D	10/23/2024
PB164154BSD	PB164154BSD	BF139961.D	10/23/2024
WB-301-SW	P4397-04	BF139975.D	10/23/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	93.1
443	15.0 - 24.0% of mass 442	17.9 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139891.D DFTPP Injection Date: 10/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	38.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	98.4
443	15.0 - 24.0% of mass 442	19 (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	BF139892.D	10/21/2024	09:57
PB164123BL	PB164123BL	BF139893.D	10/21/2024	10:25

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139926.D DFTPP Injection Date: 10/22/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.4
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	31
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	25.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF139927.D	10/22/2024	14:28
PB164154BL	PB164154BL	BF139928.D	10/22/2024	14:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139951.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.2
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	38.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.9 (19.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF139952.D	10/23/2024	09:20
PB164123BS	PB164123BS	BF139959.D	10/23/2024	12:39
PB164154BS	PB164154BS	BF139960.D	10/23/2024	13:07
PB164154BSD	PB164154BSD	BF139961.D	10/23/2024	13:36

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4397 SDG NO.: P4397

Lab File ID: BF139964.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.6
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39
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	6.1
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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	BF139965.D	10/23/2024	15:30
WB-301-SW	P4397-04	BF139975.D	10/23/2024	20:22
WB-301-BOT	P4397-02	BF139976.D	10/23/2024	20:51
WB-301-BOTMS	P4397-02MS	BF139977.D	10/23/2024	21:20
WB-301-BOTMSD	P4397-02MSD	BF139978.D	10/23/2024	21:49
WB-301-TOP	P4397-01	BF139979.D	10/23/2024	22:17

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/21/2024

Lab File ID: BF139892.D Time Analyzed: 09:57

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	170135	6.892	645389	8.18	355580	9.93
	UPPER LIMIT	340270	7.392	1290780	8.675	711160	10.427
	LOWER LIMIT	85067.5	6.392	322695	7.675	177790	9.427
	EPA SAMPLE NO.						
01	PB164123BL	167950	6.89	682521	8.17	387913	9.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/21/2024

Lab File ID: BF139892.D Time Analyzed: 09:57

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	607097	11.416	292847	14.057	323975	15.533
	UPPER LIMIT	1214190	11.916	585694	14.557	647950	16.033
	LOWER LIMIT	303549	10.916	146424	13.557	161988	15.033
	EPA SAMPLE NO.						
01	PB164123BL	717487	11.41	434664	14.05	327943	15.53

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/22/2024

Lab File ID: BF139927.D Time Analyzed: 14:28

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	169434	6.893	628861	8.18	340877	9.93
	UPPER LIMIT	338868	7.393	1257720	8.675	681754	10.428
	LOWER LIMIT	84717	6.393	314431	7.675	170439	9.428
	EPA SAMPLE NO.						
01	PB164154BL	163319	6.89	633200	8.17	357885	9.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/22/2024

Lab File ID: BF139927.D Time Analyzed: 14:28

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	576195	11.416	272427	14.051	340524	15.533
	UPPER LIMIT	1152390	11.916	544854	14.551	681048	16.033
	LOWER LIMIT	288098	10.916	136214	13.551	170262	15.033
	EPA SAMPLE NO.						
01	PB164154BL	642786	11.41	375705	14.05	319185	15.53

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139952.D Time Analyzed: 09:20

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	156634	6.893	590130	8.18	329153	9.93
	UPPER LIMIT	313268	7.393	1180260	8.675	658306	10.428
	LOWER LIMIT	78317	6.393	295065	7.675	164577	9.428
	EPA SAMPLE NO.						
01	PB164123BS	157015	6.89	616380	8.18	348472	9.93
02	PB164154BS	155060	6.89	598190	8.18	337425	9.93
03	PB164154BSD	161665	6.89	636044	8.18	355843	9.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139952.D Time Analyzed: 09:20

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	576587	11.416	299183	14.057	329130	15.533
	UPPER LIMIT	1153170	11.916	598366	14.557	658260	16.033
	LOWER LIMIT	288294	10.916	149592	13.557	164565	15.033
	EPA SAMPLE NO.						
01	PB164123BS	625574	11.42	318250	14.06	349349	15.53
02	PB164154BS	611801	11.42	325970	14.06	358287	15.53
03	PB164154BSD	646570	11.42	335936	14.06	357796	15.53

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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	159858	6.892	611382	8.18	340124	9.93
	UPPER LIMIT	319716	7.392	1222760	8.675	680248	10.428
	LOWER LIMIT	79929	6.392	305691	7.675	170062	9.428
	EPA SAMPLE NO.						
01	WB-301-TOP	147308	6.89	535162	8.17	259896	9.93
02	WB-301-BOT	146113	6.89	542139	8.17	263407	9.92
03	WB-301-BOTMS	145039	6.89	535106	8.18	263539	9.93
04	WB-301-BOTMSD	145043	6.89	544717	8.18	274724	9.93
05	WB-301-SW	146831	6.89	541523	8.17	276437	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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	597021	11.416	306092	14.057	358871	15.533
	UPPER LIMIT	1194040	11.916	612184	14.557	717742	16.033
	LOWER LIMIT	298511	10.916	153046	13.557	179436	15.033
	EPA SAMPLE NO.						
01	WB-301-TOP	369608	11.41	318909	14.05	311630	15.53
02	WB-301-BOT	381099	11.41	321287	14.05	306800	15.53
03	WB-301-BOTMS	377320	11.42	297713	14.06	304160	15.53
04	WB-301-BOTMSD	399778	11.42	304493	14.06	305520	15.53
05	WB-301-SW	397037	11.41	340671	14.05	311683	15.53

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

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

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* Values outside of QC limits.

SAMPLE DATA

Raw Data: **BF139979.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290	U	290	520	ug/Kg
108-95-2	Phenol	130	U	130	270	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	130	270	ug/Kg
95-57-8	2-Chlorophenol	130	U	130	270	ug/Kg
95-48-7	2-Methylphenol	130	U	130	270	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	140	U	140	270	ug/Kg
98-86-2	Acetophenone	140	U	140	270	ug/Kg
65794-96-9	3+4-Methylphenols	130	U	130	520	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	63.5	U	63.5	130	ug/Kg
67-72-1	Hexachloroethane	130	U	130	270	ug/Kg
98-95-3	Nitrobenzene	140	U	140	270	ug/Kg
78-59-1	Isophorone	130	U	130	270	ug/Kg
88-75-5	2-Nitrophenol	150	U	150	270	ug/Kg
105-67-9	2,4-Dimethylphenol	150	U	150	270	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	140	270	ug/Kg
120-83-2	2,4-Dichlorophenol	120	U	120	270	ug/Kg
91-20-3	Naphthalene	1400		130	270	ug/Kg
106-47-8	4-Chloroaniline	130	UQ	130	270	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	130	270	ug/Kg
105-60-2	Caprolactam	140	U	140	520	ug/Kg
59-50-7	4-Chloro-3-methylphenol	120	U	120	270	ug/Kg
91-57-6	2-Methylnaphthalene	1200		130	270	ug/Kg
77-47-4	Hexachlorocyclopentadiene	250	UQ	250	520	ug/Kg
88-06-2	2,4,6-Trichlorophenol	110	U	110	270	ug/Kg
95-95-4	2,4,5-Trichlorophenol	120	U	120	270	ug/Kg
92-52-4	1,1-Biphenyl	160	J	140	270	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	130	270	ug/Kg
88-74-4	2-Nitroaniline	150	U	150	270	ug/Kg
131-11-3	Dimethylphthalate	130	U	130	270	ug/Kg

Raw Data: **BF139979.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	J	140	270	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	130	270	ug/Kg
99-09-2	3-Nitroaniline	140	UQ	140	270	ug/Kg
83-32-9	Acenaphthene	1300		130	270	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	380	520	ug/Kg
100-02-7	4-Nitrophenol	180	U	180	520	ug/Kg
132-64-9	Dibenzofuran	130	U	130	270	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	140	270	ug/Kg
84-66-2	Diethylphthalate	130	U	130	270	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	130	270	ug/Kg
86-73-7	Fluorene	780		130	270	ug/Kg
100-01-6	4-Nitroaniline	170	U	170	270	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	180	UQ	180	520	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	130	270	ug/Kg
101-55-3	4-Bromophenyl-phenylether	120	U	120	270	ug/Kg
118-74-1	Hexachlorobenzene	130	U	130	270	ug/Kg
1912-24-9	Atrazine	140	U	140	270	ug/Kg
87-86-5	Pentachlorophenol	120	U	120	520	ug/Kg
85-01-8	Phenanthrene	2500		130	270	ug/Kg
120-12-7	Anthracene	1000		130	270	ug/Kg
86-74-8	Carbazole	130	U	130	270	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	130	270	ug/Kg
206-44-0	Fluoranthene	1300		130	270	ug/Kg
129-00-0	Pyrene	1200		130	270	ug/Kg
85-68-7	Butylbenzylphthalate	150	U	150	270	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	520	ug/Kg
56-55-3	Benzo(a)anthracene	870		130	270	ug/Kg
218-01-9	Chrysene	890		130	270	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	140	U	140	270	ug/Kg
117-84-0	Di-n-octyl phthalate	170	U	170	520	ug/Kg
205-99-2	Benzo(b)fluoranthene	580		130	270	ug/Kg

Raw Data: **BF139979.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	300		130	270	ug/Kg
50-32-8	Benzo(a)pyrene	760		150	270	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	J	120	270	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	130	270	ug/Kg
191-24-2	Benzo(g,h,i)perylene	190	J	130	270	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	140	270	ug/Kg
123-91-1	1,4-Dioxane	170	U	170	270	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	120	U	120	270	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.5		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	83.3		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.9		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.6		30 (20) - 130 (109)	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.7		30 (10) - 130 (116)	50%	SPK: 150
1718-51-0	Terphenyl-d14	40.6		30 (10) - 130 (105)	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.887			
1146-65-2	Naphthalene-d8	535000	8.169			
15067-26-2	Acenaphthene-d10	260000	9.928			
1517-22-2	Phenanthrene-d10	370000	11.41			
1719-03-5	Chrysene-d12	319000	14.051			
1520-96-3	Perylene-d12	312000	15.533			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4100	JB		2.21	ug/Kg
90-12-0	1-Methylnaphthalene	1100	J		8.98	ug/Kg
000939-27-5	Naphthalene, 2-ethyl-	580	J		9.44	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	520	J		9.51	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	800	J		9.58	ug/Kg
000573-98-8	Naphthalene, 1,2-dimethyl-	420	J		9.70	ug/Kg
000119-61-9	Benzophenone	570	J		10.6	ug/Kg

Raw Data: **BF139979.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	63.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139979.D	1	10/14/24 10:40	10/23/24 22:17	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown10.839	380	J		10.8	ug/Kg
001730-37-6	9H-Fluorene, 1-methyl-	430	J		11.0	ug/Kg
000132-65-0	Dibenzothiophene	420	J		11.3	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	730	J		11.9	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	850	J		11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	420	J		12.0	ug/Kg
1000460-85-7	1H-1,2,4-Triazol-5-amine, 3-bromo-	1700	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	550	J		12.5	ug/Kg
006543-29-9	Indeno[2,1-a]indene, 5,10-dihydro-	510	J		12.5	ug/Kg
000886-66-8	Benzene, 1,1-(1,3-butadiyne-1,4-d	450	J		12.7	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	390	J		13.2	ug/Kg
015600-08-5	Cholestan-3-one	380	J		16.5	ug/Kg
	unknown17.298	360	J		17.3	ug/Kg
000638-96-0	.alpha.-Amyrone	470	J		18.2	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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Time: Oct 24 01:13:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

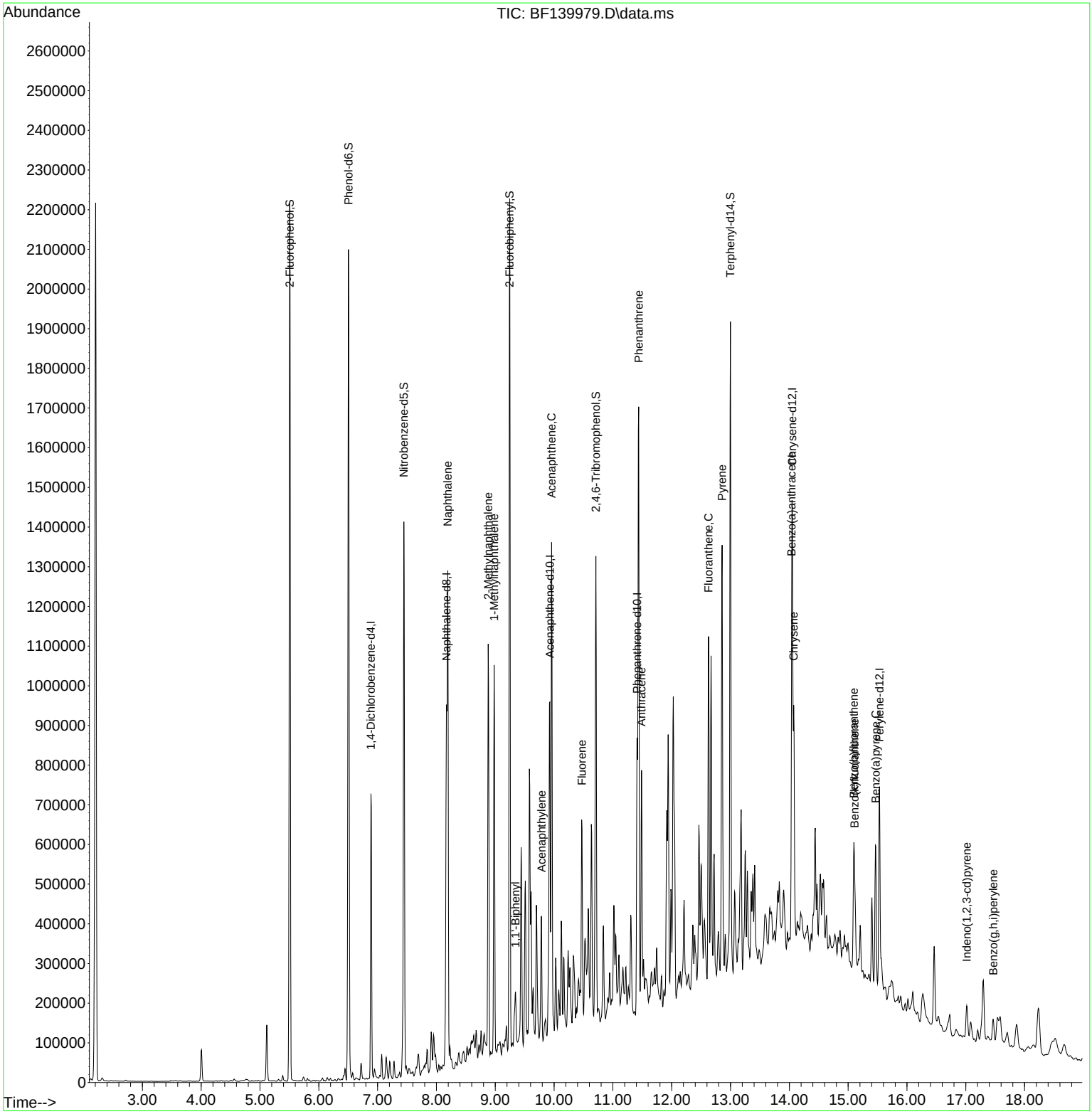
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	147308	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	535162	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	259896	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	369608	20.000	ng		0.00
76) Chrysene-d12	14.051	240	318909	20.000	ng		0.00
86) Perylene-d12	15.533	264	311630	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	823186	87.483	ng		0.00
7) Phenol-d6	6.504	99	1014654	83.256	ng		0.00
23) Nitrobenzene-d5	7.445	82	597976	61.929	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	184112	75.736	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	936691	59.565	ng		0.00
79) Terphenyl-d14	12.998	244	794759	40.609	ng		0.00
Target Compounds							Qvalue
31) Naphthalene	8.192	128	738416	26.754	ng		100
37) 2-Methylnaphthalene	8.881	142	392241	23.205	ng		99
38) 1-Methylnaphthalene	8.981	142	361633	21.806	ng		99
46) 1,1'-Biphenyl	9.345	154	54794	3.029	ng		97
49) Acenaphthylene	9.787	152	69778	3.312	ng	#	86
52) Acenaphthene	9.957	154	346417	25.420	ng		97
58) Fluorene	10.475	166	220529	14.808	ng		96
71) Phenanthrene	11.439	178	822142	47.091	ng		100
72) Anthracene	11.486	178	324395	19.044	ng		99
75) Fluoranthene	12.627	202	443928	25.153	ng		99
78) Pyrene	12.857	202	631843	22.634	ng		99
81) Benzo(a)anthracene	14.039	228	342920m	16.518	ng		
83) Chrysene	14.074	228	323494	16.995	ng	#	95
87) Indeno(1,2,3-cd)pyrene	17.015	276	60334	3.009	ng		96
88) Benzo(b)fluoranthene	15.098	252	208966m	11.008	ng		
89) Benzo(k)fluoranthene	15.110	252	94638m	5.781	ng		
90) Benzo(a)pyrene	15.468	252	225515	14.438	ng		98
92) Benzo(g,h,i)perylene	17.468	276	61435	3.678	ng		99

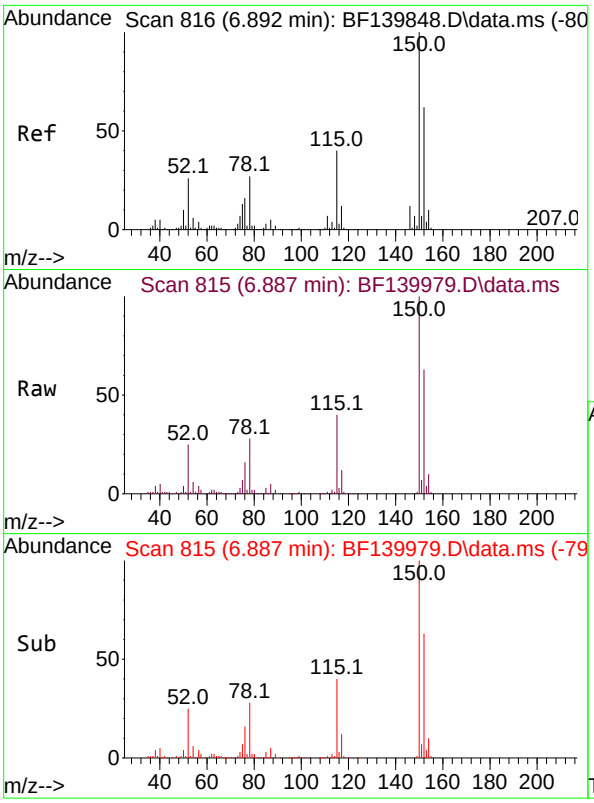
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Time: Oct 24 01:13:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



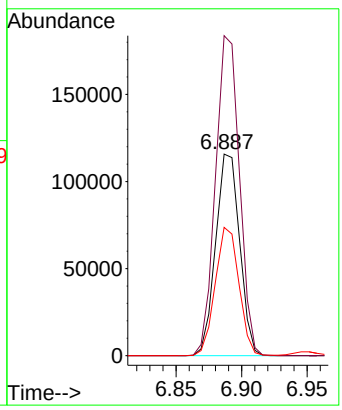


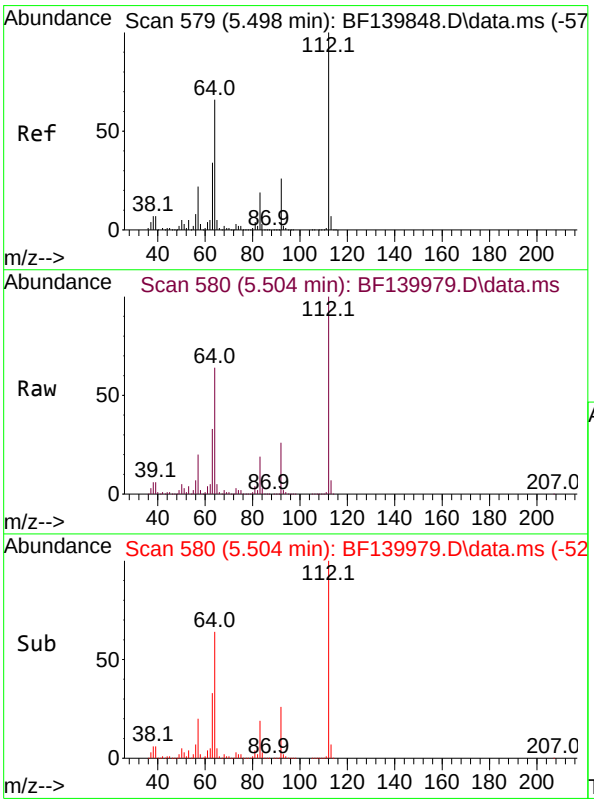
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:152 Resp: 147308

Ion	Ratio	Lower	Upper
152	100		
150	158.8	130.2	195.2
115	63.7	51.4	77.2

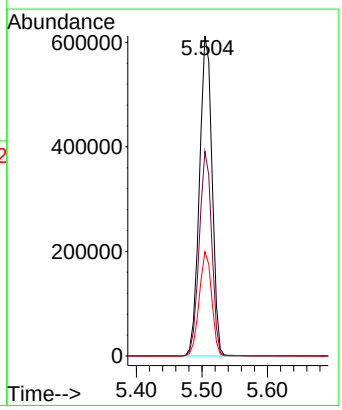


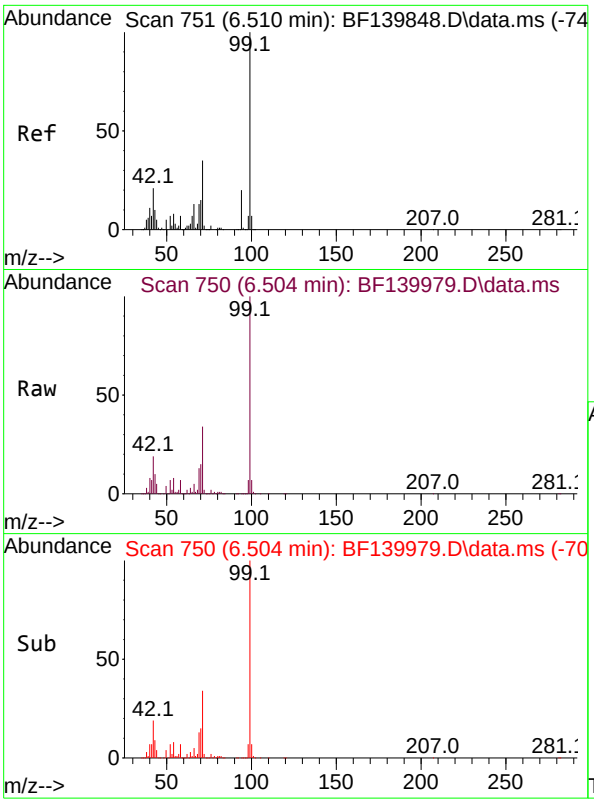


#5
2-Fluorophenol
Concen: 87.483 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:112 Resp: 823186

Ion	Ratio	Lower	Upper
112	100		
64	63.9	53.0	79.6
63	32.6	27.0	40.4



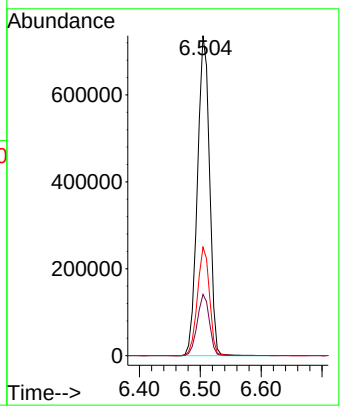


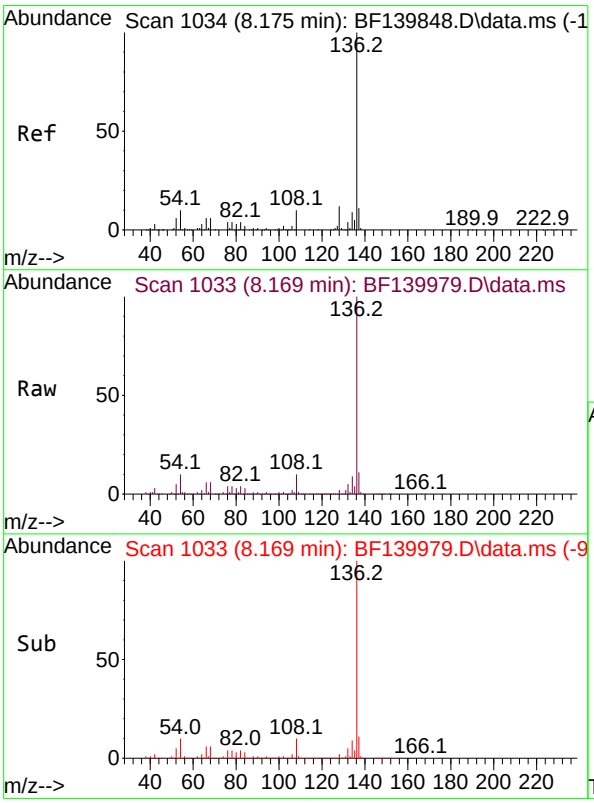
#7
Phenol-d6
Concen: 83.256 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion: 99 Resp: 1014654

Ion	Ratio	Lower	Upper
99	100		
42	19.2	16.7	25.1
71	33.9	27.7	41.5

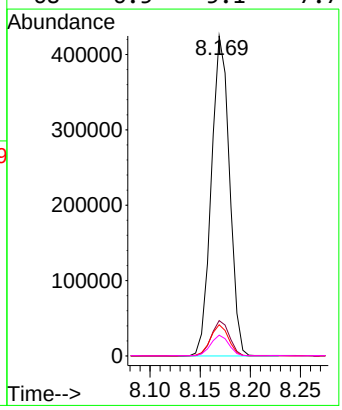


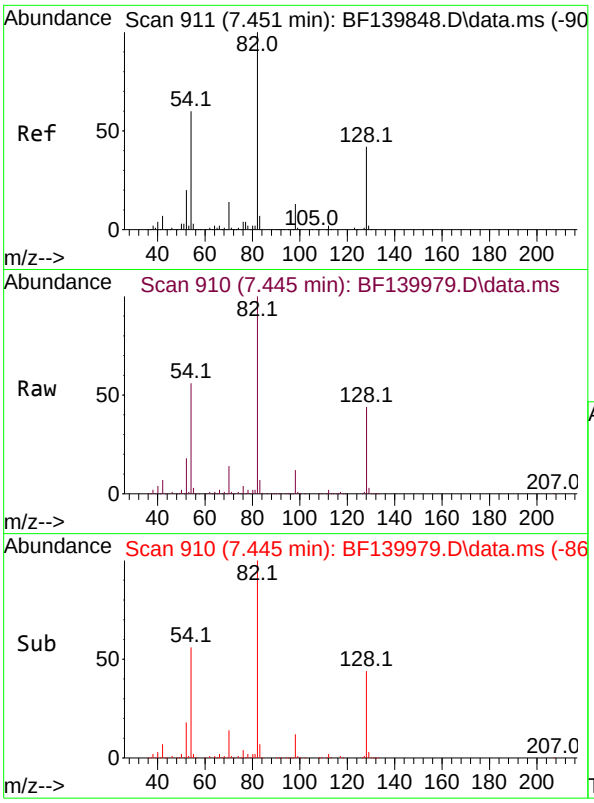


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:136 Resp: 535162

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.8	8.4	12.6
68	6.5	5.1	7.7



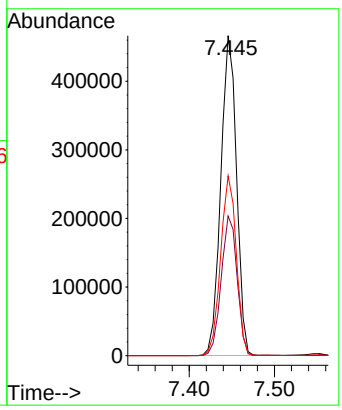


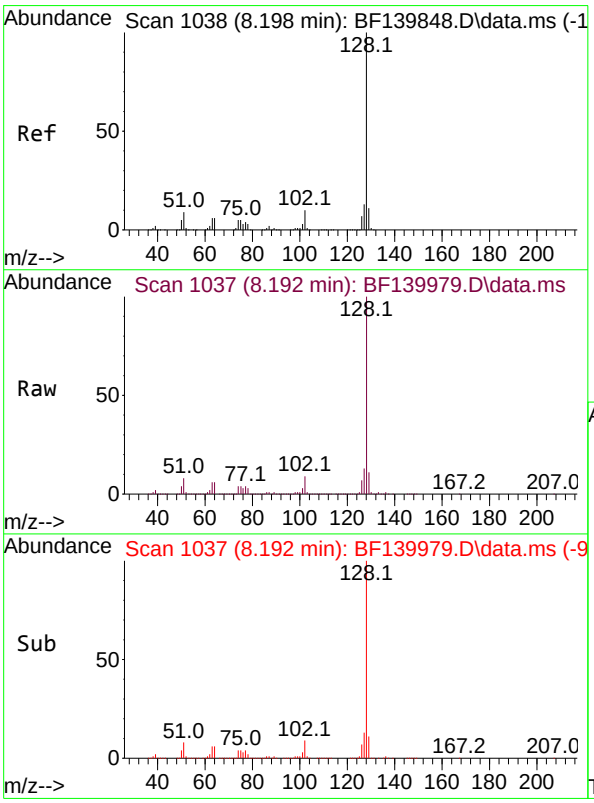
#23
Nitrobenzene-d5
Concen: 61.929 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion: 82 Resp: 597976

Ion	Ratio	Lower	Upper
82	100		
128	43.6	33.4	50.0
54	56.2	47.8	71.8

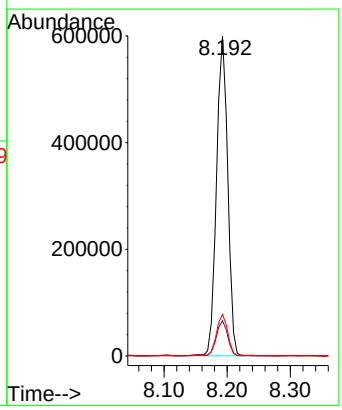


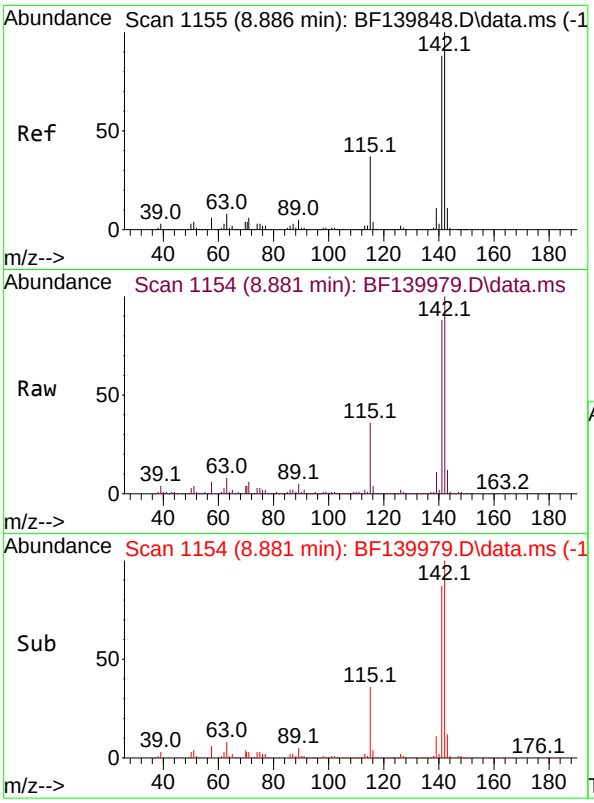


#31
Naphthalene
Concen: 26.754 ng
RT: 8.192 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:128 Resp: 738416

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.0	10.6	16.0



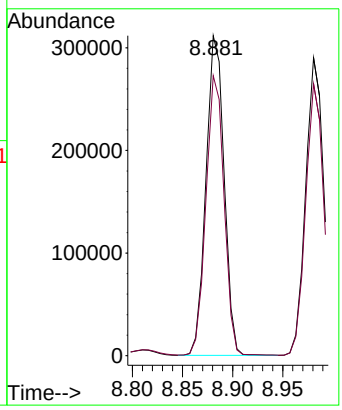


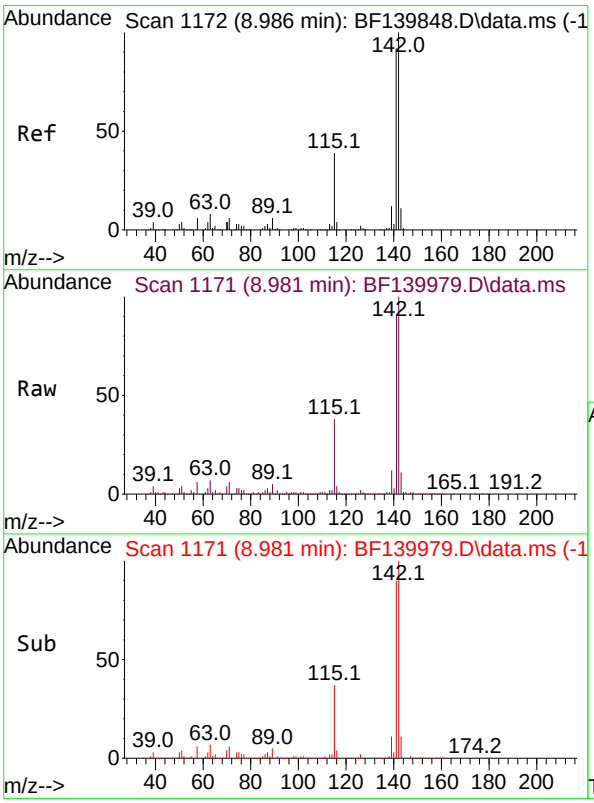
#37
2-Methylnaphthalene
Concen: 23.205 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:142 Resp: 392241

Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.8	106.2

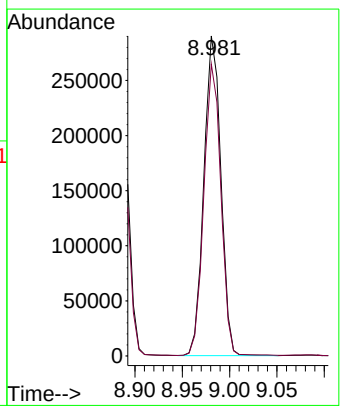


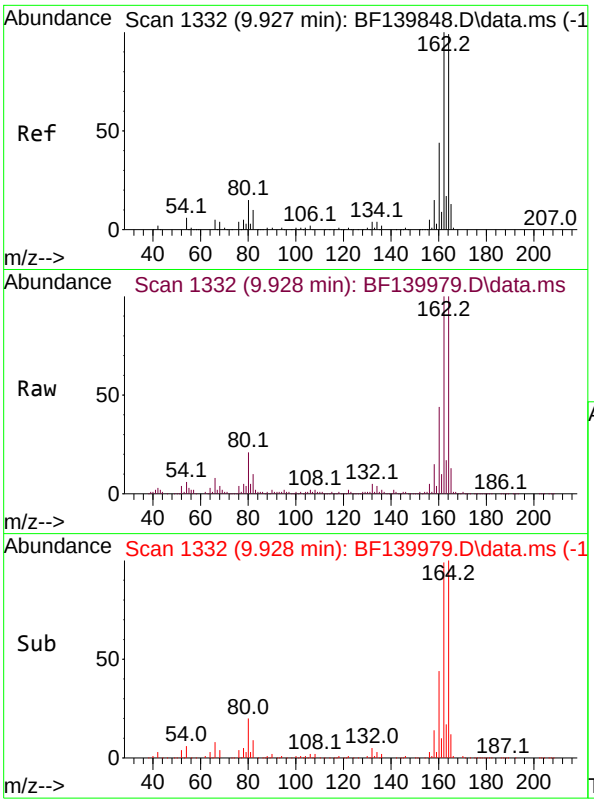


#38
1-Methylnaphthalene
Concen: 21.806 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:142 Resp: 361633

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.5	110.3



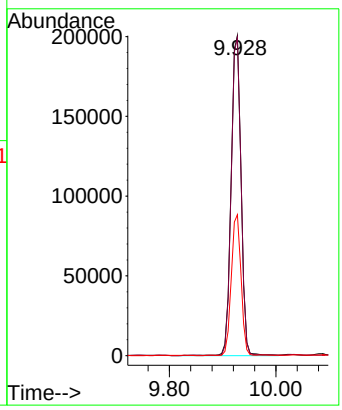


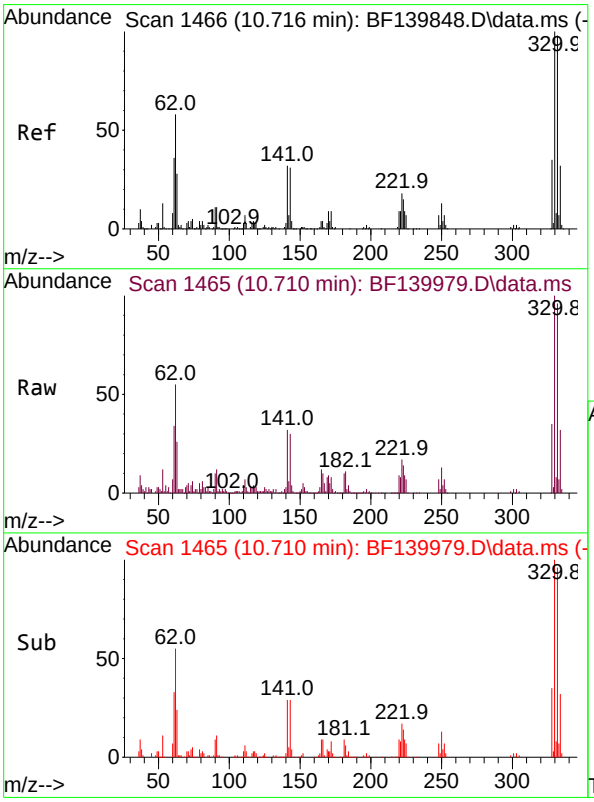
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:164 Resp: 259896

Ion	Ratio	Lower	Upper
164	100		
162	99.5	81.0	121.4
160	44.0	35.4	53.0

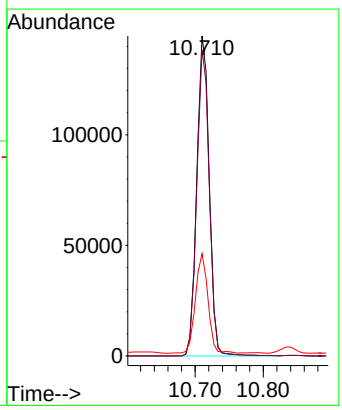


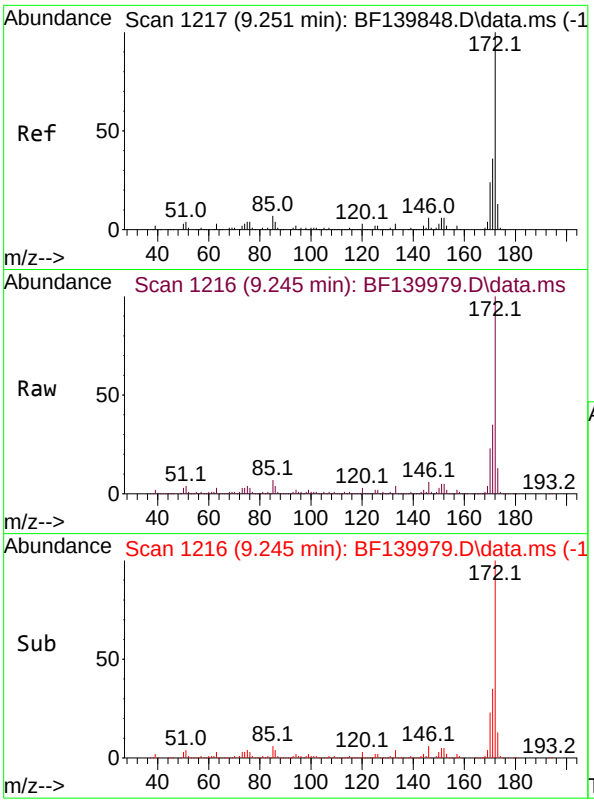


#42
2,4,6-Tribromophenol
Concen: 75.736 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:330 Resp: 184112

Ion	Ratio	Lower	Upper
330	100		
332	96.0	78.1	117.1
141	31.3	26.6	39.8



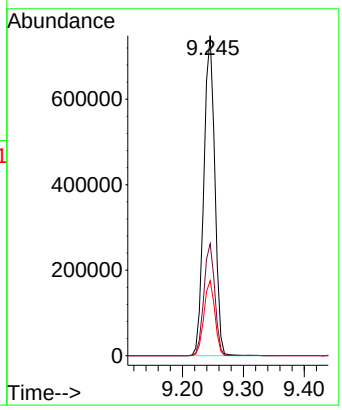


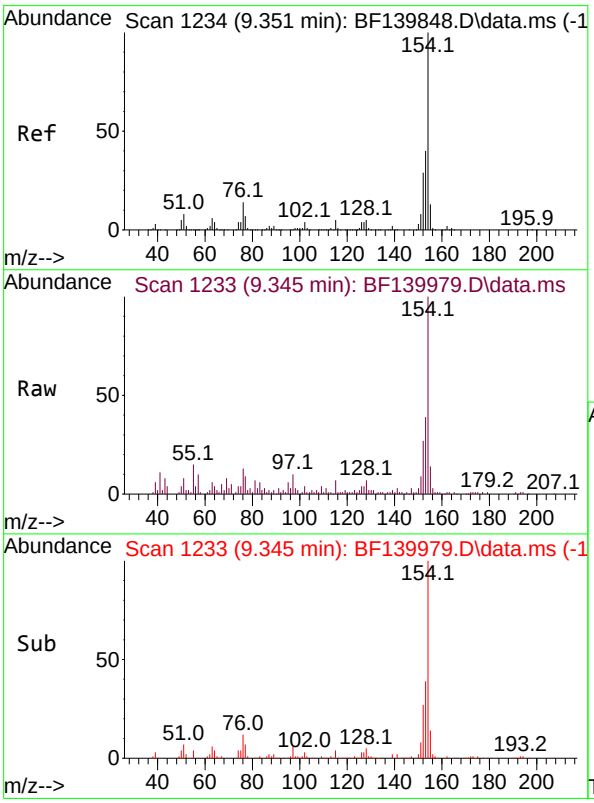
#45
2-Fluorobiphenyl
Concen: 59.565 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:172 Resp: 936691

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	43.0
170	23.5	19.1	28.7

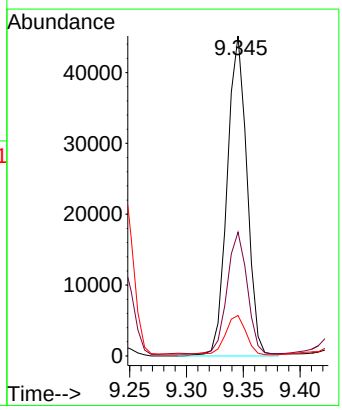


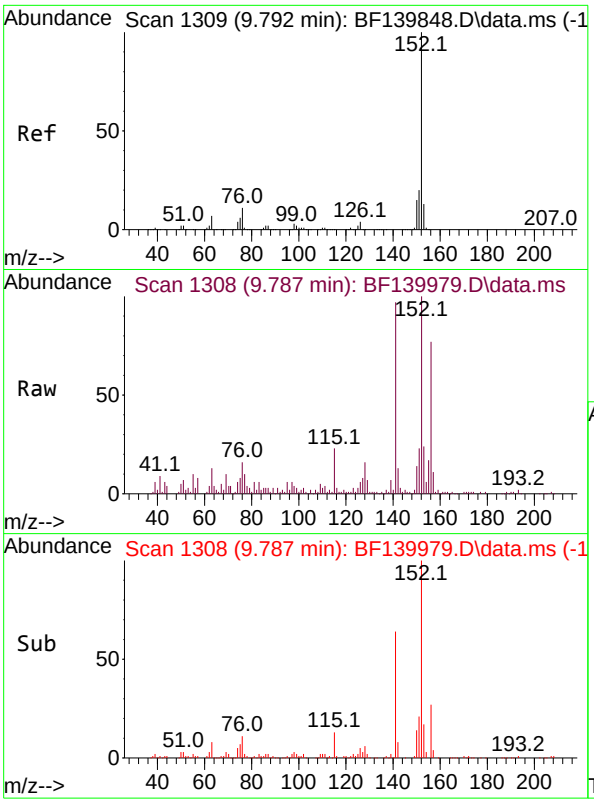


#46
1,1'-Biphenyl
Concen: 3.029 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:154 Resp: 54794

Ion	Ratio	Lower	Upper
154	100		
153	38.7	20.3	60.3
76	12.6	0.0	33.9



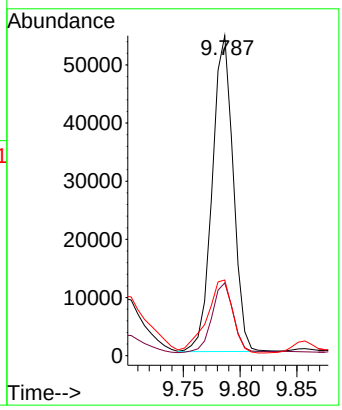


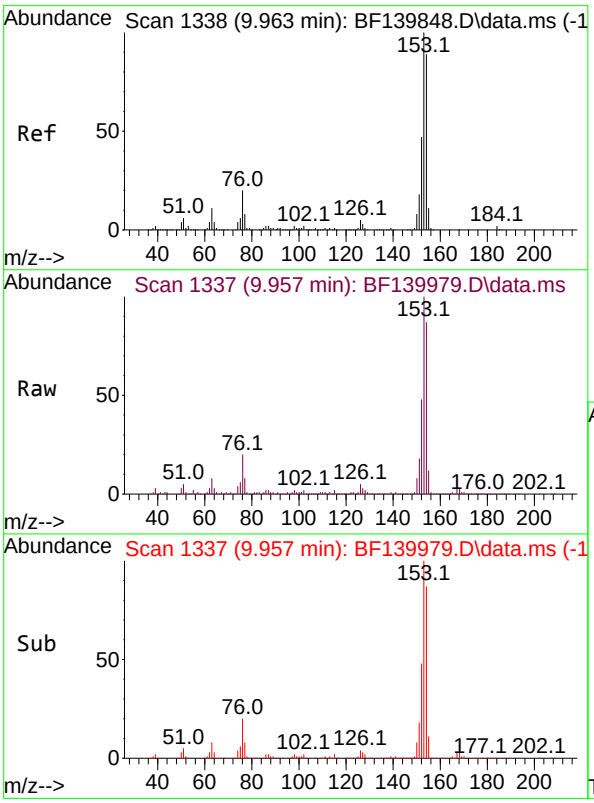
#49
Acenaphthylene
Concen: 3.312 ng
RT: 9.787 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:152 Resp: 69778

Ion	Ratio	Lower	Upper
152	100		
151	22.7	15.9	23.9
153	23.6	10.7	16.1#

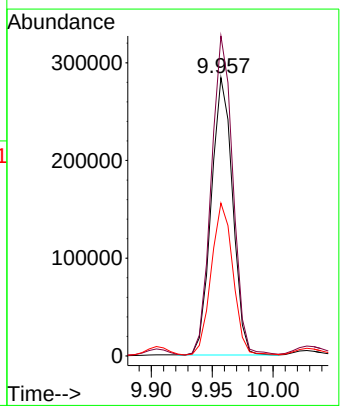


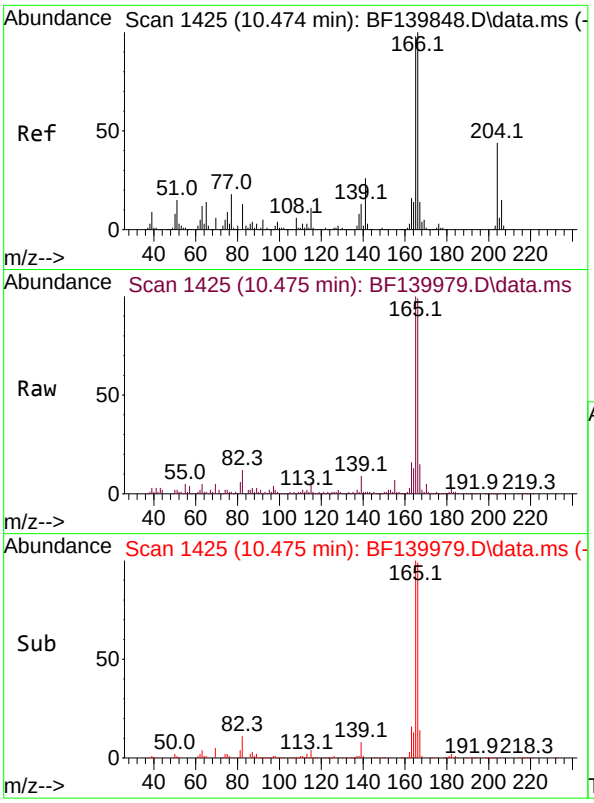


#52
Acenaphthene
Concen: 25.420 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:154 Resp: 346417

Ion	Ratio	Lower	Upper
154	100		
153	114.9	89.8	134.6
152	54.9	42.4	63.6



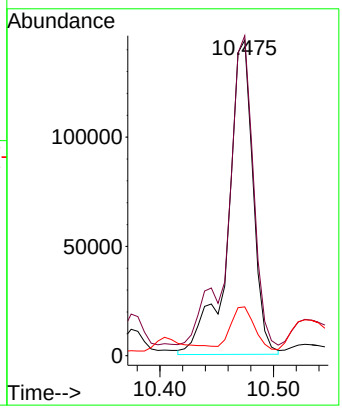


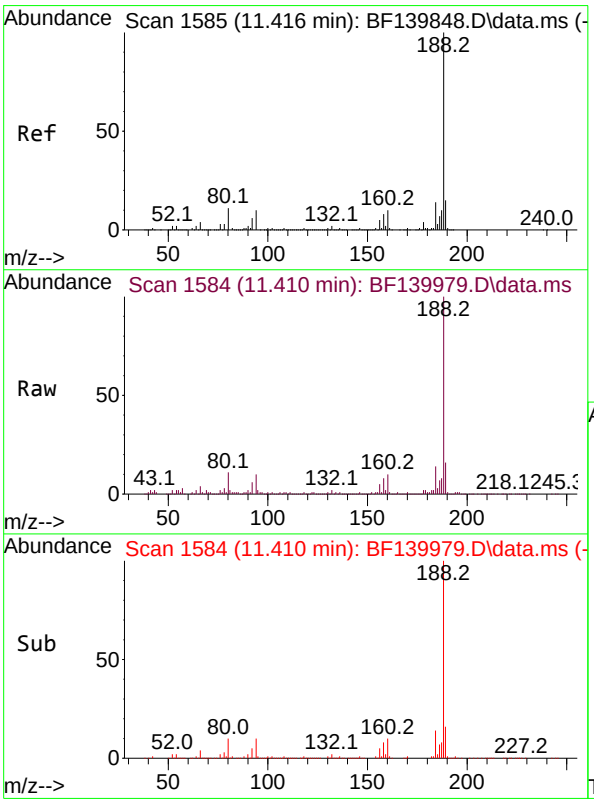
#58
Fluorene
Concen: 14.808 ng
RT: 10.475 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:166 Resp: 220529

Ion	Ratio	Lower	Upper
166	100		
165	101.4	78.5	117.7
167	15.5	10.9	16.3

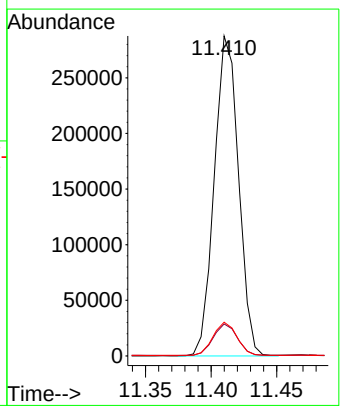


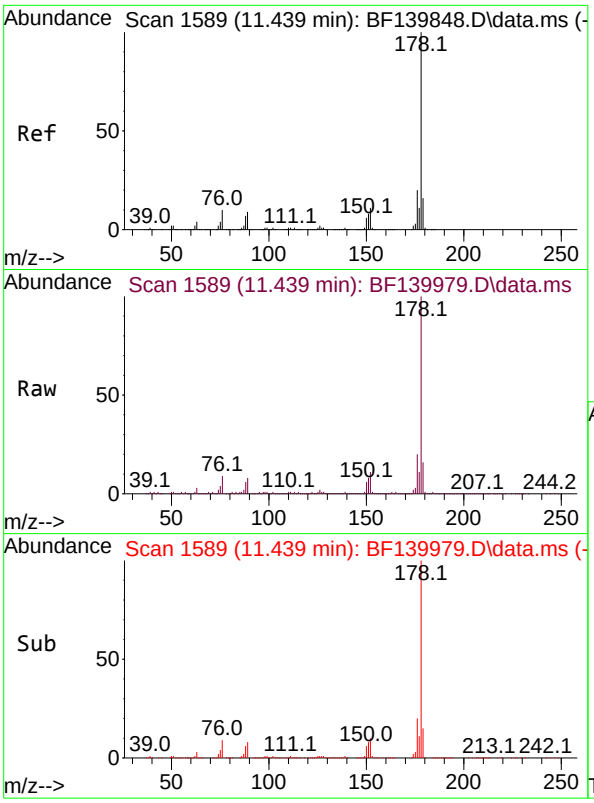


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:188 Resp: 369608

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.9	11.9
80	10.5	9.0	13.4



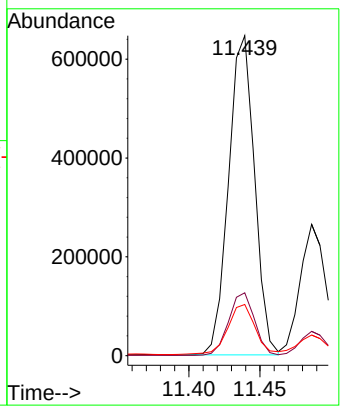


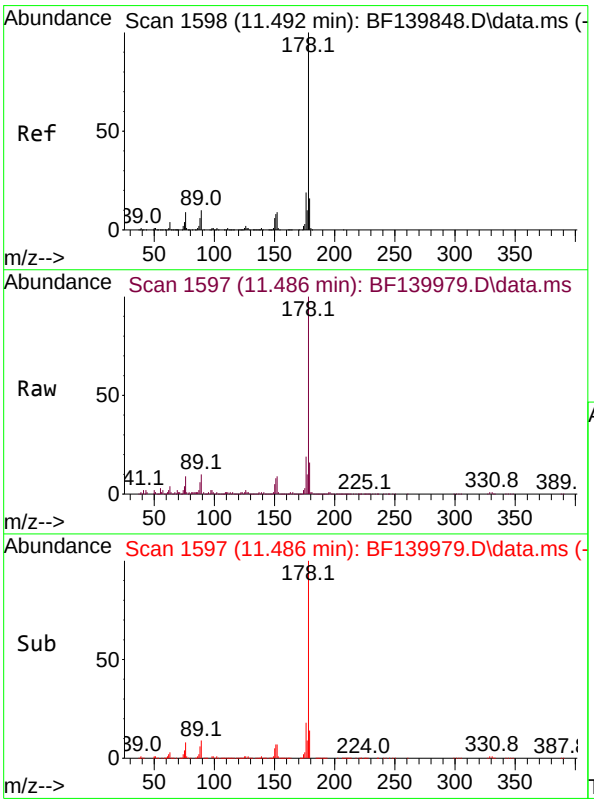
#71
Phenanthrene
Concen: 47.091 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:178 Resp: 822142

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	16.0	12.6	18.8

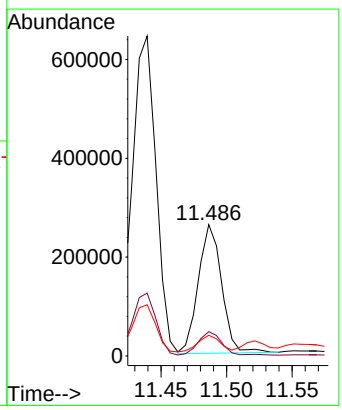


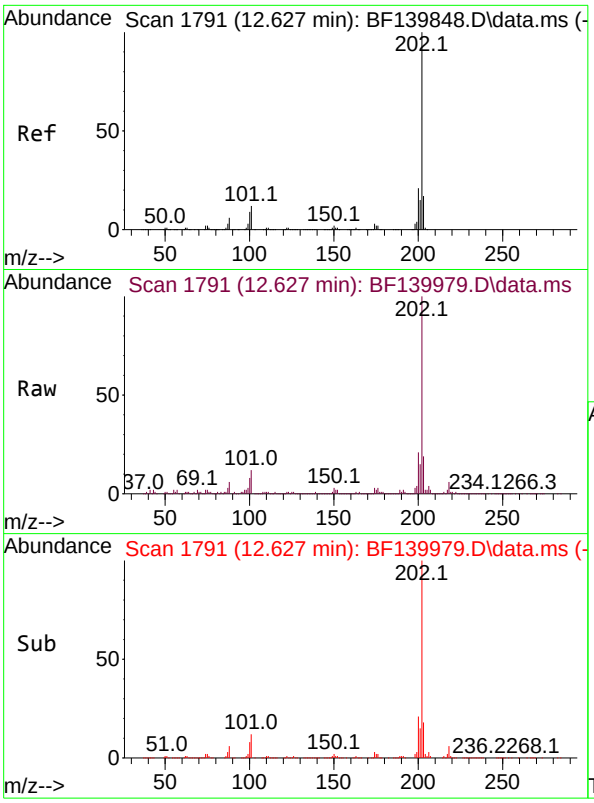


#72
Anthracene
Concen: 19.044 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:178 Resp: 324395

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.3	22.9
179	15.7	12.4	18.6



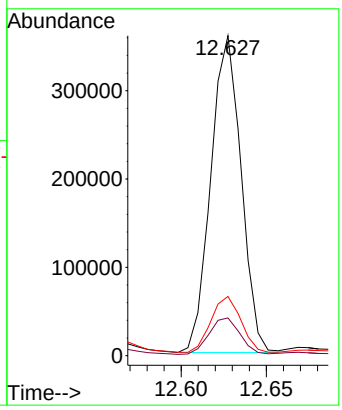


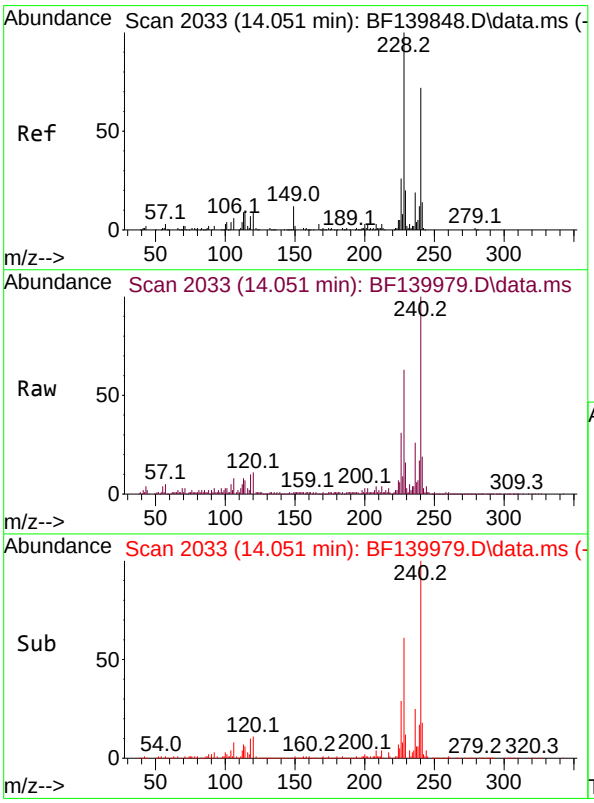
#75
Fluoranthene
Concen: 25.153 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:202 Resp: 443928

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.9
203	18.5	0.0	37.5

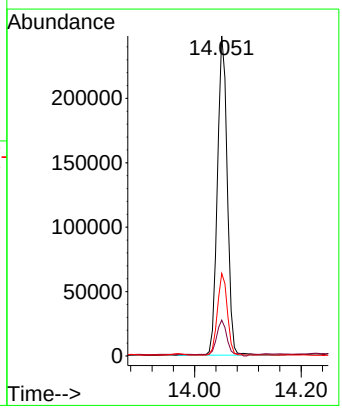


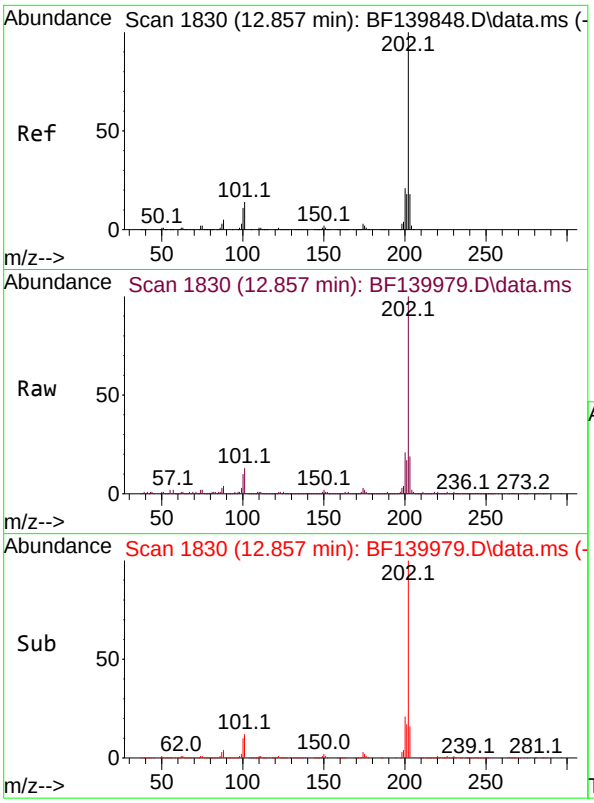


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:240 Resp: 318909

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	25.8	20.9	31.3



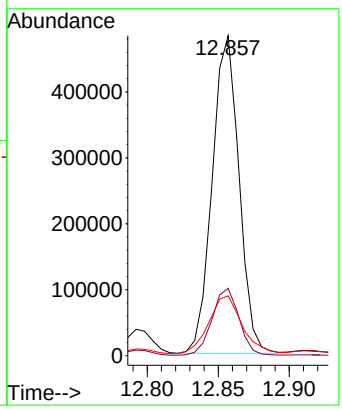


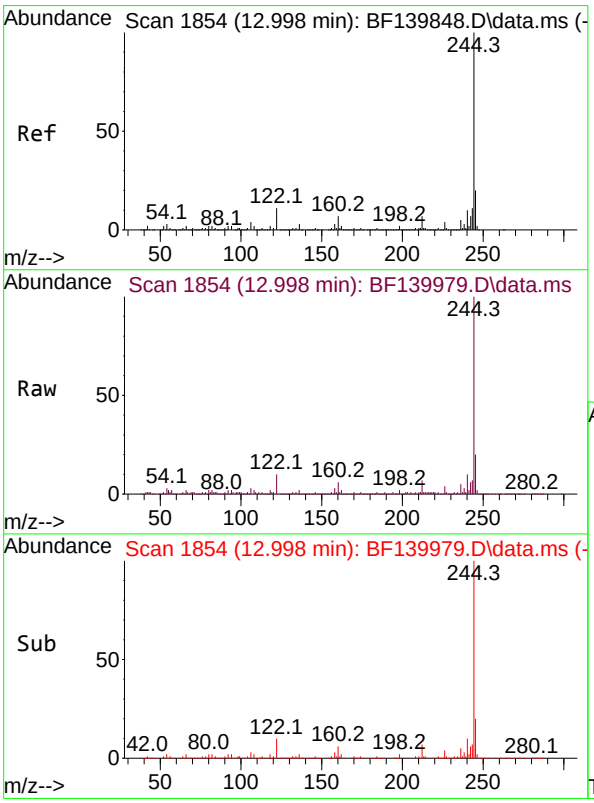
#78
Pyrene
Concen: 22.634 ng
RT: 12.857 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:202 Resp: 631843

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.2	25.8
203	18.7	14.2	21.4

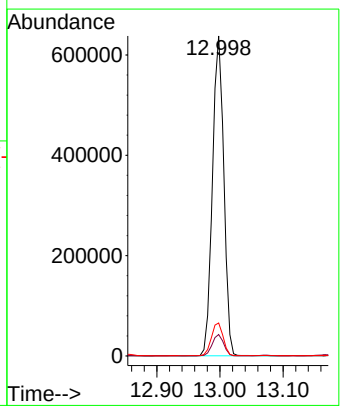


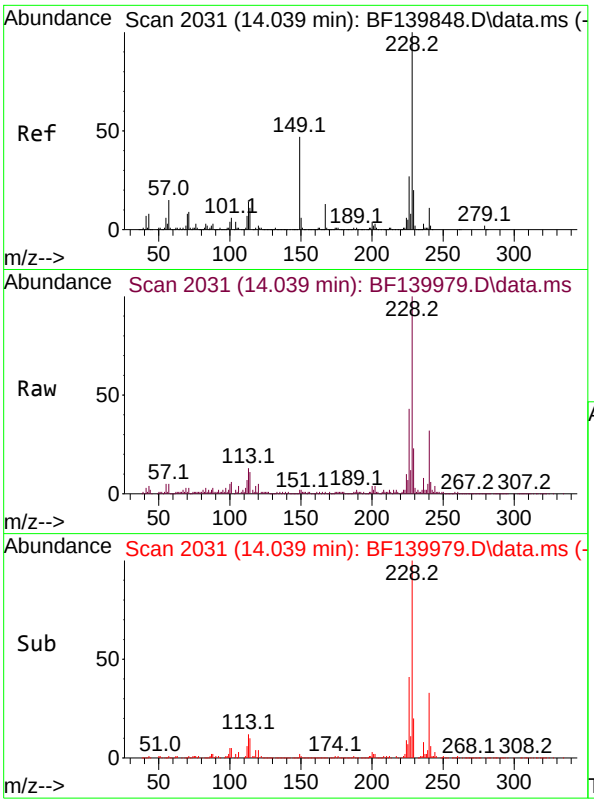


#79
Terphenyl-d14
Concen: 40.609 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:244 Resp: 794759

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	10.3	8.6	13.0



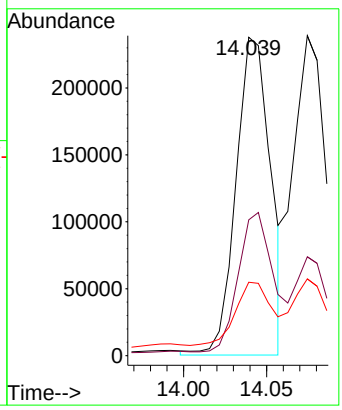


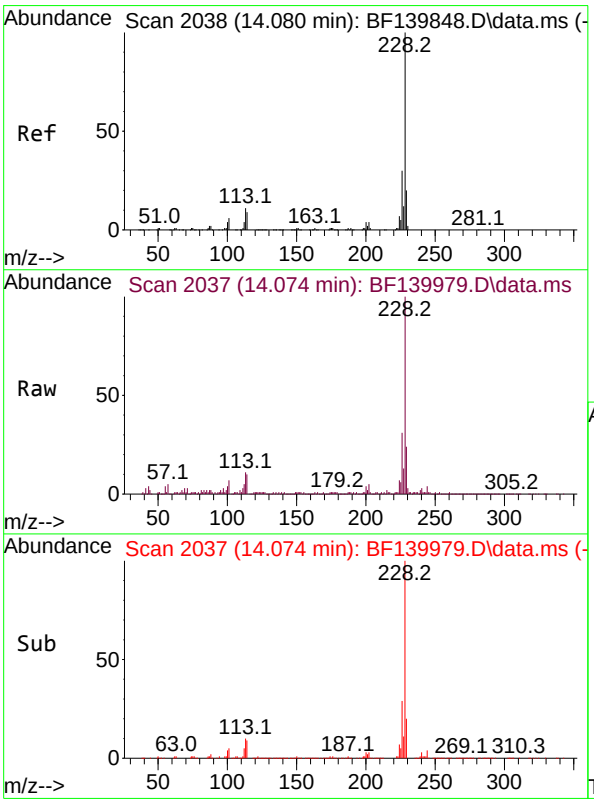
#81
Benzo(a)anthracene
Concen: 16.518 ng m
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:228 Resp: 342920

Ion	Ratio	Lower	Upper
228	100		
226	42.7	21.6	32.4#
229	23.1	16.1	24.1

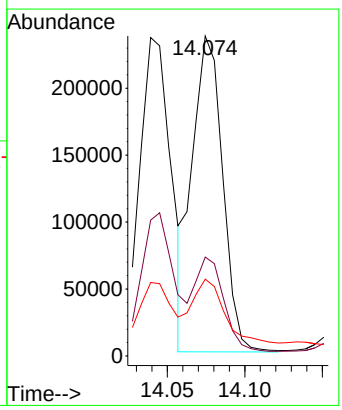


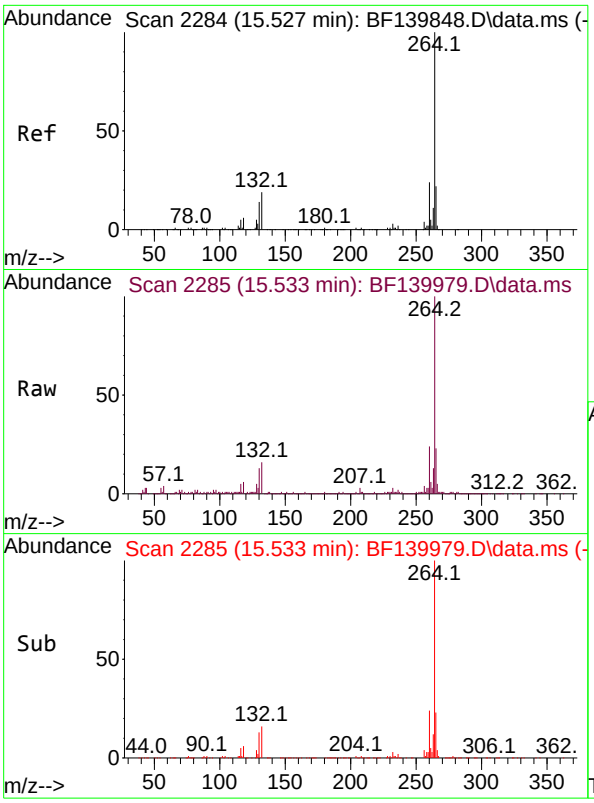


#83
Chrysene
Concen: 16.995 ng
RT: 14.074 min Scan# 2037
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:228 Resp: 323494

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.1	36.1
229	24.0	15.8	23.6#



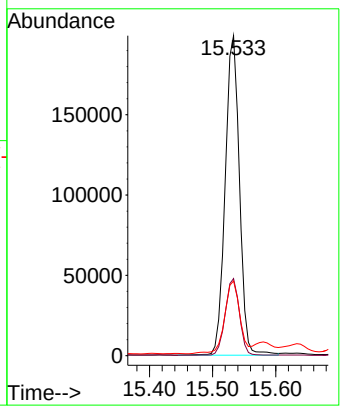


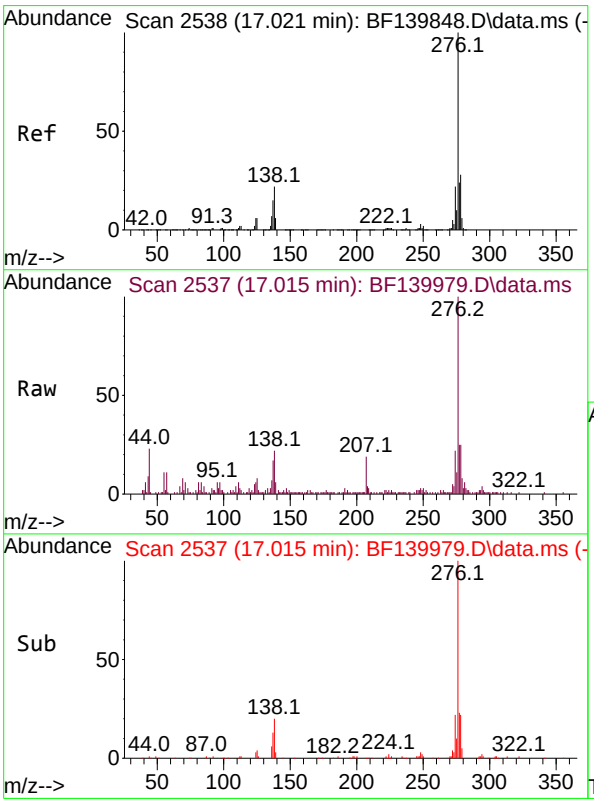
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:264 Resp: 311630

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.4	29.2
265	23.4	17.4	26.0

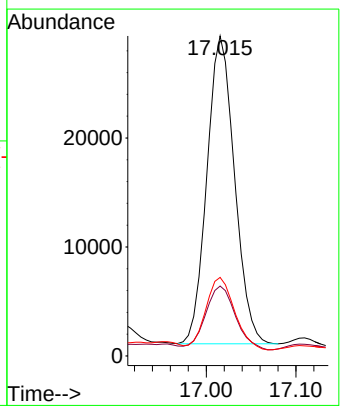


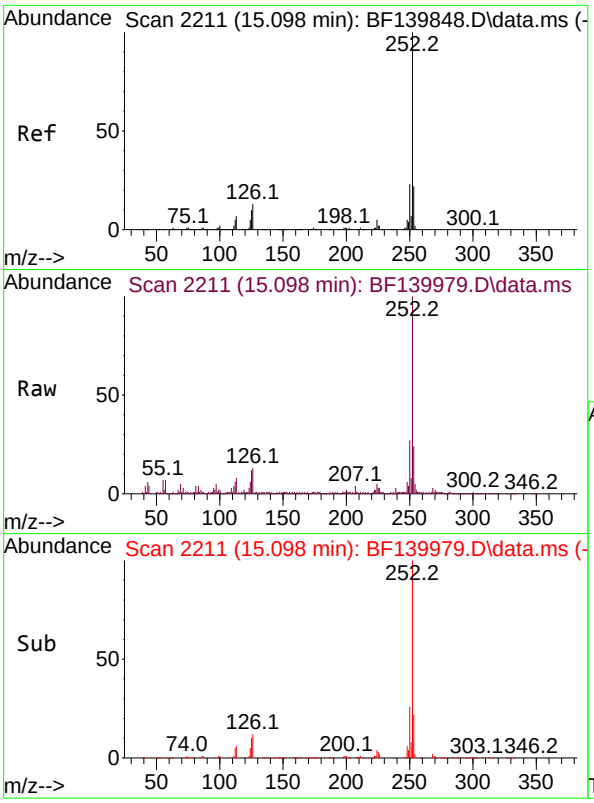


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.009 ng
RT: 17.015 min Scan# 2537
Delta R.T. -0.006 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:276 Resp: 60334

Ion	Ratio	Lower	Upper
276	100		
138	22.4	20.4	30.6
277	24.6	20.2	30.4



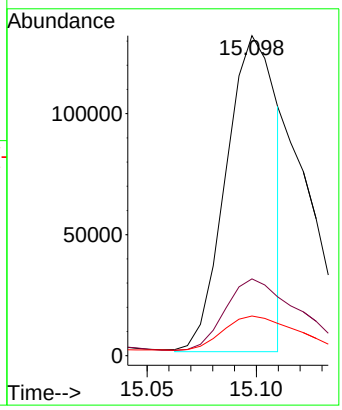


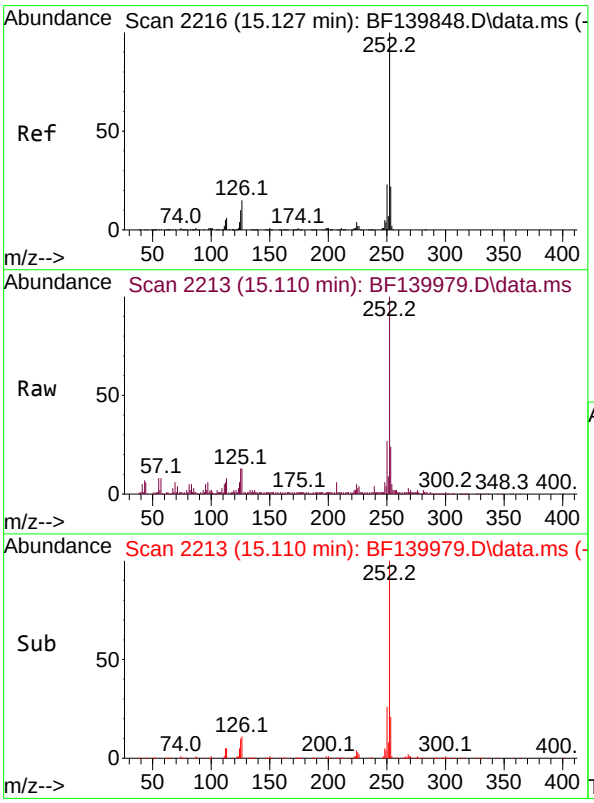
#88
Benzo(b)fluoranthene
Concen: 11.008 ng m
RT: 15.098 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:252 Resp: 208966

Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.6	26.4
125	12.4	7.9	11.9#

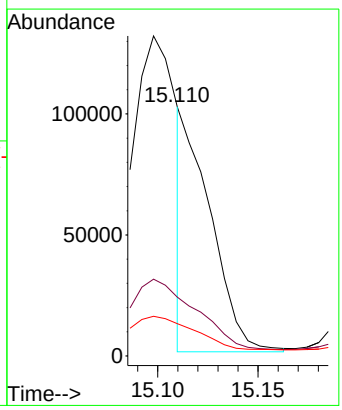


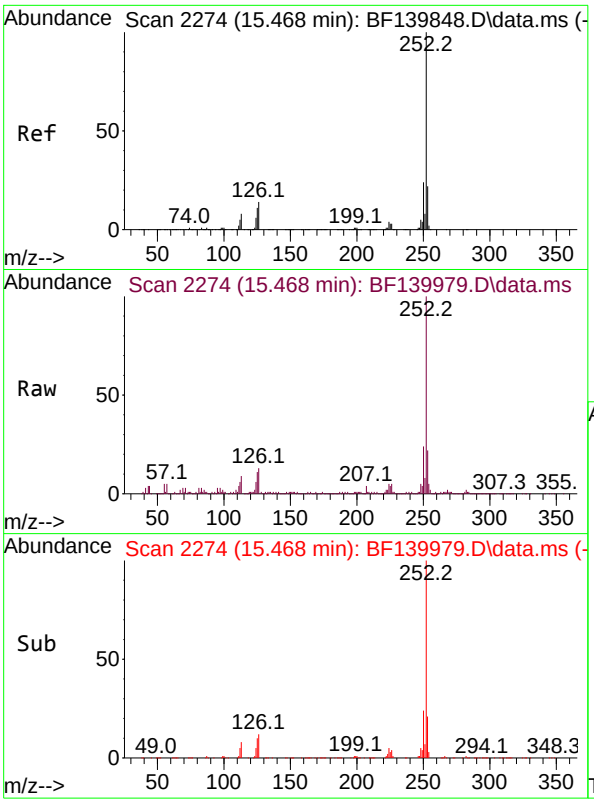


#89
Benzo(k)fluoranthene
Concen: 5.781 ng m
RT: 15.110 min Scan# 2213
Delta R.T. -0.017 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:252 Resp: 94638

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.6	26.4
125	13.0	7.9	11.9#



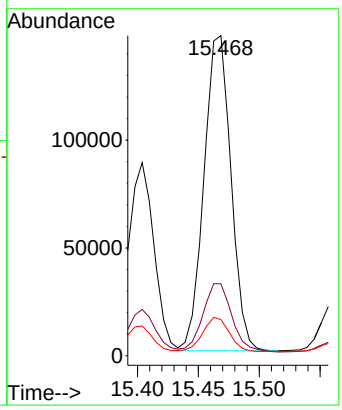


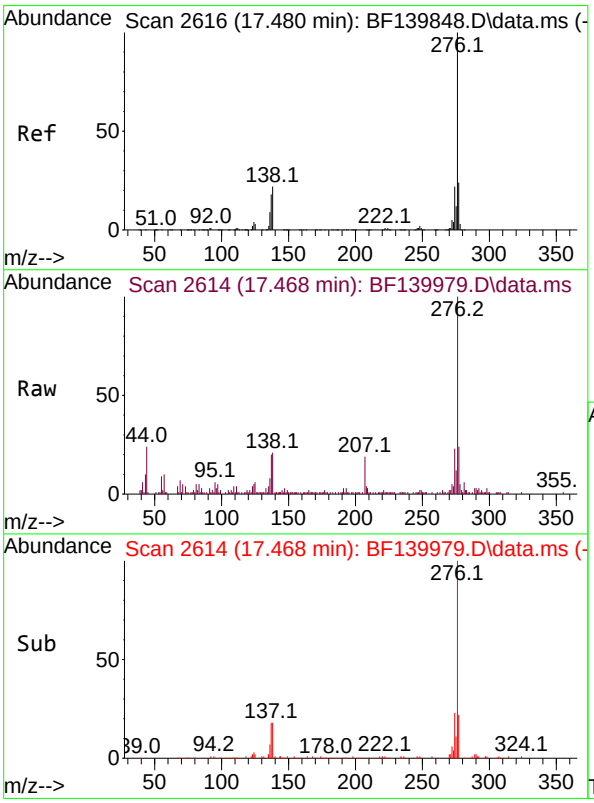
#90
Benzo(a)pyrene
Concen: 14.438 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Tgt Ion:252 Resp: 225515

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	11.3	8.7	13.1

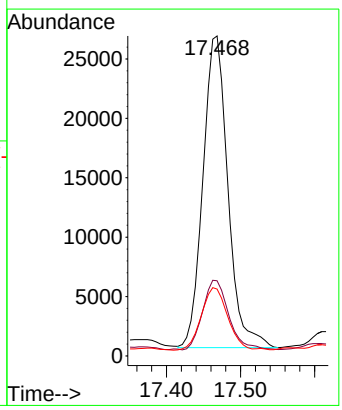




#92
Benzo(g,h,i)perylene
Concen: 3.678 ng
RT: 17.468 min Scan# 2614
Delta R.T. -0.012 min
Lab File: BF139979.D
Acq: 23 Oct 2024 22:17

Tgt Ion:276 Resp: 61435

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.6
138	20.9	17.4	26.0



Sample Results: **BF139979.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.205	9	19	29	rVB	2212116	3596286	100.00%	5.857%
2	4.005	314	325	335	rBV	78942	128518	3.57%	0.209%
3	5.116	506	514	523	rVB	141179	212968	5.92%	0.347%
4	5.504	574	580	585	rBV	2211927	2949739	82.02%	4.804%
5	6.504	744	750	759	rVV	2092979	2930953	81.50%	4.773%
6	6.716	782	786	791	rBV2	41698	63301	1.76%	0.103%
7	6.887	810	815	822	rBV	717457	911517	25.35%	1.484%
8	7.069	842	846	852	rVB	63326	77963	2.17%	0.127%
9	7.145	852	859	865	rBV3	55102	102965	2.86%	0.168%
10	7.204	865	869	877	rVB	42956	65361	1.82%	0.106%
11	7.445	901	910	915	rBV	1399760	1921915	53.44%	3.130%
12	7.693	947	952	958	rVB3	53086	109322	3.04%	0.178%
13	7.793	958	969	971	rBV4	24925	68261	1.90%	0.111%
14	7.840	974	977	982	rVB2	57794	78197	2.17%	0.127%
15	7.910	982	989	993	rBV2	102299	173972	4.84%	0.283%
16	7.951	993	996	1000	rBV2	63572	87544	2.43%	0.143%
17	8.169	1026	1033	1035	rBV	910205	1388362	38.61%	2.261%
18	8.192	1035	1037	1041	rVV	1238651	1315232	36.57%	2.142%
19	8.381	1064	1069	1076	rVV7	32864	65822	1.83%	0.107%
20	8.675	1116	1119	1124	rVB4	69664	95087	2.64%	0.155%
21	8.757	1130	1133	1137	rVV	65533	79357	2.21%	0.129%
22	8.810	1137	1142	1149	rVV5	55658	146664	4.08%	0.239%
23	8.881	1149	1154	1159	rVB	1036143	1303126	36.24%	2.122%
24	8.981	1166	1171	1176	rBV	978589	1226156	34.10%	1.997%
25	9.187	1204	1206	1210	rVB	62489	74323	2.07%	0.121%
26	9.245	1210	1216	1221	rBV	2147128	2689193	74.78%	4.379%
27	9.345	1226	1233	1239	rVV2	135772	269388	7.49%	0.439%
28	9.439	1244	1249	1255	rVB	498961	723120	20.11%	1.178%
29	9.510	1255	1261	1265	rBV	414583	647111	17.99%	1.054%
30	9.581	1268	1273	1276	rVV	686102	988490	27.49%	1.610%
31	9.610	1276	1278	1281	rVV	373426	412295	11.46%	0.671%
32	9.645	1281	1284	1289	rVV3	129502	185893	5.17%	0.303%
33	9.698	1289	1293	1301	rVB	334947	516809	14.37%	0.842%
34	9.787	1302	1308	1312	rVB2	313274	451673	12.56%	0.736%
35	9.851	1314	1319	1323	rBV2	43197	77936	2.17%	0.127%
36	9.928	1324	1332	1334	rBV2	840074	1301200	36.18%	2.119%

Sample Results: **BF139979.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	9.957	1334	1337	1342	rVV	1227086	1500408	41.72%	2.443%
38	10.028	1345	1349	1354	rBV	183827	264798	7.36%	0.431%
39	10.081	1354	1358	1361	rBV3	96821	150362	4.18%	0.245%
40	10.122	1361	1365	1369	rVV2	260834	371044	10.32%	0.604%
41	10.163	1369	1372	1380	rVB	175802	249871	6.95%	0.407%
42	10.239	1381	1385	1388	rBV3	189098	289639	8.05%	0.472%
43	10.269	1388	1390	1396	rVB2	139928	176997	4.92%	0.288%
44	10.328	1396	1400	1406	rBV	169304	346991	9.65%	0.565%
45	10.416	1411	1415	1418	rVV4	102776	198050	5.51%	0.323%
46	10.469	1421	1424	1430	rVV	500142	692863	19.27%	1.128%
47	10.528	1430	1434	1438	rVV2	198392	402426	11.19%	0.655%
48	10.581	1440	1443	1447	rVV2	269573	404188	11.24%	0.658%
49	10.634	1448	1452	1459	rVB2	484871	712153	19.80%	1.160%
50	10.710	1459	1465	1470	rBV2	1160631	1627494	45.25%	2.650%
51	10.839	1482	1487	1493	rVB3	233663	347836	9.67%	0.566%
52	10.945	1502	1505	1508	rVB3	81564	89290	2.48%	0.145%
53	11.016	1513	1517	1520	rVV	250953	394317	10.96%	0.642%
54	11.045	1520	1522	1526	rVV2	175910	235606	6.55%	0.384%
55	11.104	1529	1532	1535	rVB	126296	150965	4.20%	0.246%
56	11.222	1549	1552	1555	rVB2	94069	112336	3.12%	0.183%
57	11.304	1562	1566	1574	rVB2	247876	380348	10.58%	0.619%
58	11.410	1580	1584	1586	rBV	698650	959149	26.67%	1.562%
59	11.439	1586	1589	1593	rVV	1512094	1874567	52.13%	3.053%
60	11.486	1593	1597	1601	rVV	571237	719796	20.01%	1.172%
61	11.522	1601	1603	1606	rVB2	77337	79352	2.21%	0.129%
62	11.745	1638	1641	1651	rVB3	129116	208544	5.80%	0.340%
63	11.828	1652	1655	1658	rVB	77666	96360	2.68%	0.157%
64	11.916	1666	1670	1672	rBV	460095	667700	18.57%	1.087%
65	11.939	1672	1674	1679	rVV	654537	774649	21.54%	1.262%
66	11.986	1679	1682	1685	rVV	268848	379886	10.56%	0.619%
67	12.028	1685	1689	1697	rVB	761456	1553179	43.19%	2.529%
68	12.210	1716	1720	1728	rVB2	213603	327048	9.09%	0.533%
69	12.357	1743	1745	1748	rVB	98361	101108	2.81%	0.165%
70	12.392	1748	1751	1757	rVB2	114012	201861	5.61%	0.329%
71	12.463	1759	1763	1766	rBV	362761	499821	13.90%	0.814%
72	12.498	1766	1769	1775	rVV2	255167	462255	12.85%	0.753%
73	12.557	1775	1779	1786	rVB4	148041	319061	8.87%	0.520%
74	12.627	1786	1791	1794	rBV	862867	1079828	30.03%	1.759%
75	12.669	1794	1798	1803	rVV	787103	1014866	28.22%	1.653%
76	12.722	1803	1807	1814	rVB	304909	413506	11.50%	0.673%

Sample Results: **BF139979.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	12.792	1815	1819	1824	rVB3	98911	167115	4.65%	0.272%
78	12.857	1824	1830	1836	rBV	1073423	1567924	43.60%	2.553%
79	12.910	1836	1839	1843	rVB2	94493	118181	3.29%	0.192%
80	12.998	1849	1854	1862	rVB	1640688	2217286	61.65%	3.611%
81	13.069	1863	1866	1873	rBV2	189445	320992	8.93%	0.523%
82	13.180	1879	1885	1889	rVB	403797	739695	20.57%	1.205%
83	13.251	1893	1897	1900	rVV2	292344	432392	12.02%	0.704%
84	13.286	1900	1903	1910	rVV	236289	361896	10.06%	0.589%
85	13.351	1911	1914	1916	rVV	180202	236370	6.57%	0.385%
86	13.380	1916	1919	1921	rVV	220827	294271	8.18%	0.479%
87	13.410	1921	1924	1933	rVB2	237408	364708	10.14%	0.594%
88	14.045	2027	2032	2036	rBV2	1105009	1995549	55.49%	3.250%
89	14.439	2095	2099	2102	rBV	208379	264646	7.36%	0.431%
90	15.098	2206	2211	2221	rVB	309058	682840	18.99%	1.112%
91	15.204	2226	2229	2234	rVB	117084	160468	4.46%	0.261%
92	15.404	2259	2263	2268	rVB	209936	302334	8.41%	0.492%
93	15.463	2269	2273	2279	rVV	351952	540909	15.04%	0.881%
94	15.533	2280	2285	2297	rVB	511205	927302	25.78%	1.510%
95	16.463	2438	2443	2451	rVB2	188098	336317	9.35%	0.548%
96	17.015	2532	2537	2544	rVB2	75292	151341	4.21%	0.246%
97	17.298	2580	2585	2594	rVB	148226	322215	8.96%	0.525%
98	17.462	2609	2613	2619	rVB	52375	100717	2.80%	0.164%
99	17.539	2621	2626	2630	rBV5	49138	121011	3.36%	0.197%
100	18.233	2737	2744	2760	rVB7	119482	412017	11.46%	0.671%

Sum of corrected areas: 61405033

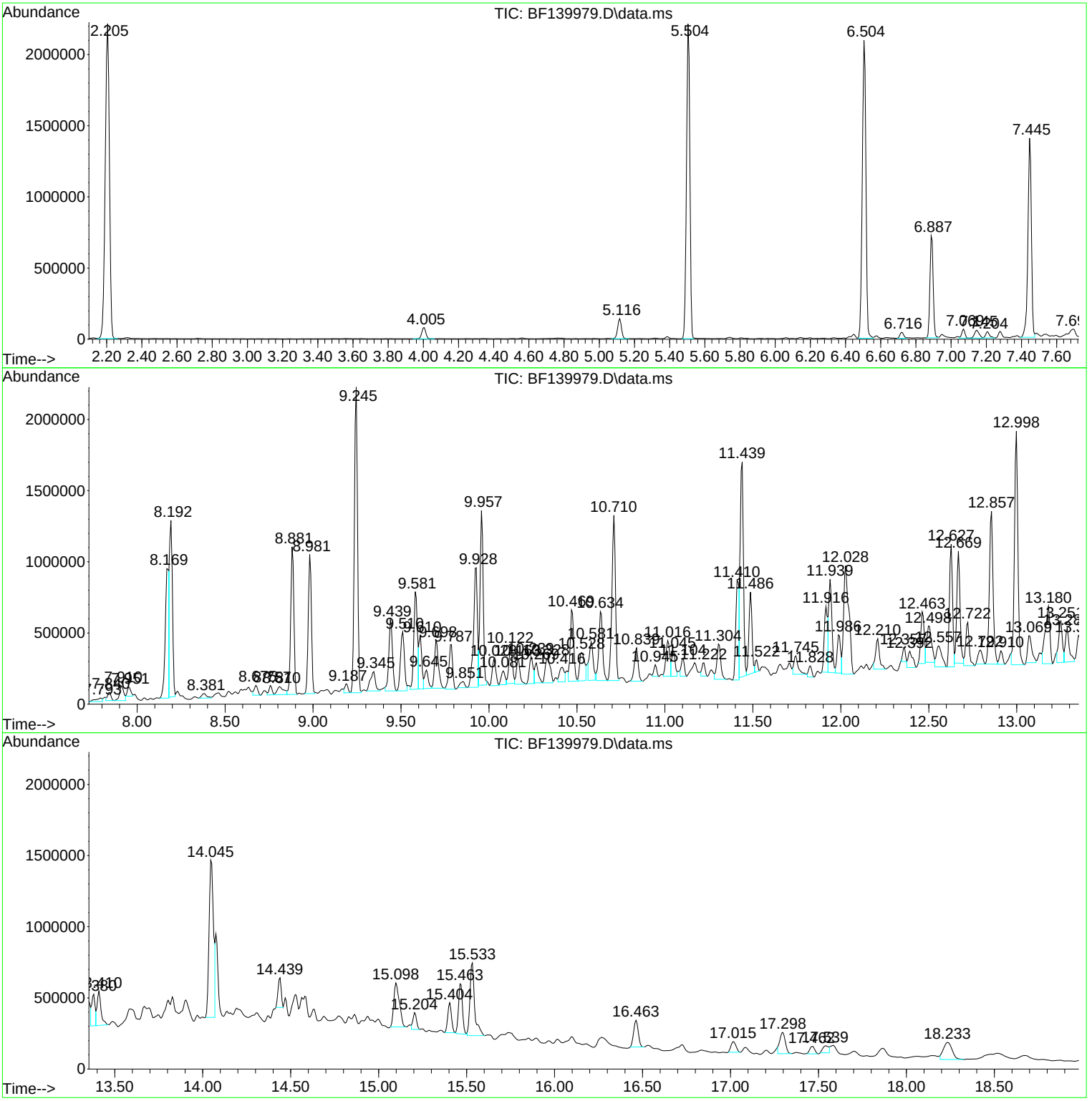
Sample Results: **BF139979.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

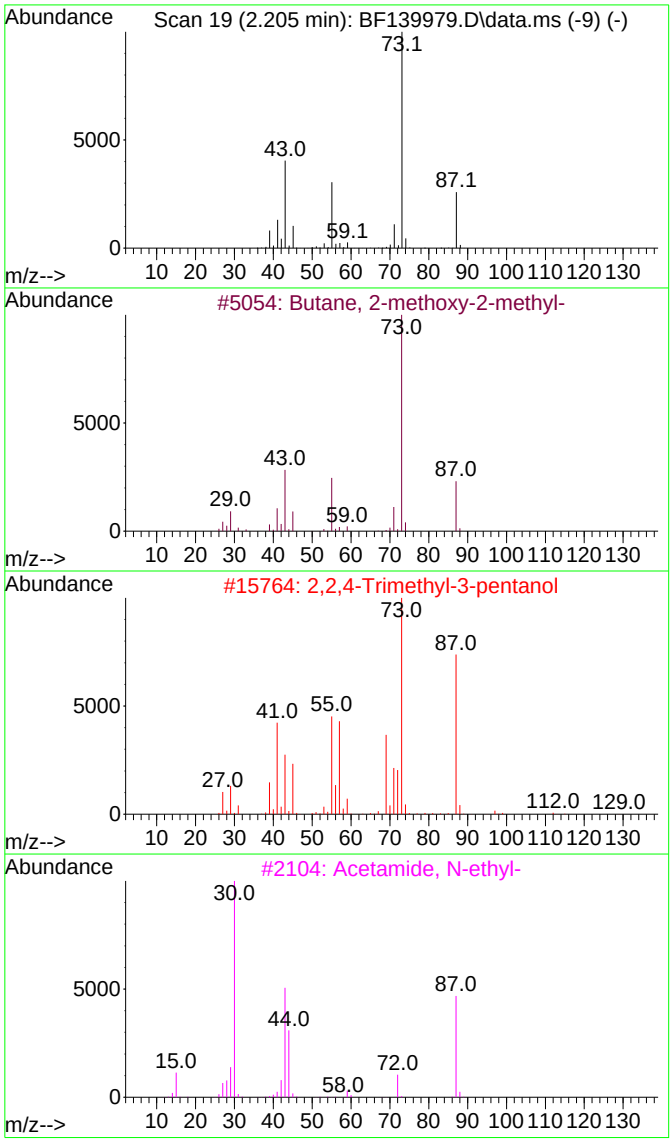
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

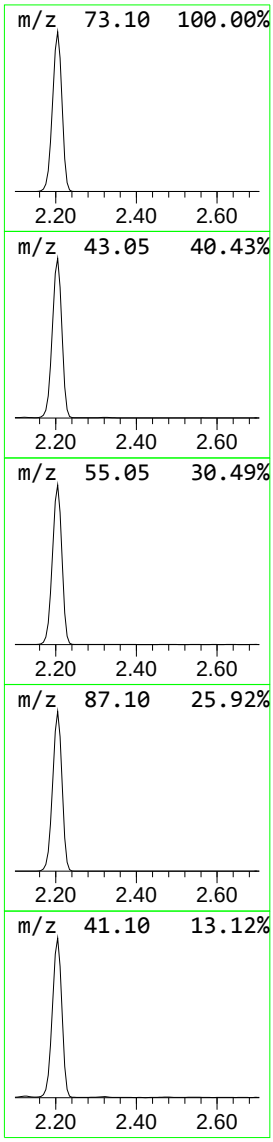
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.205	78.91 ng	3596290	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

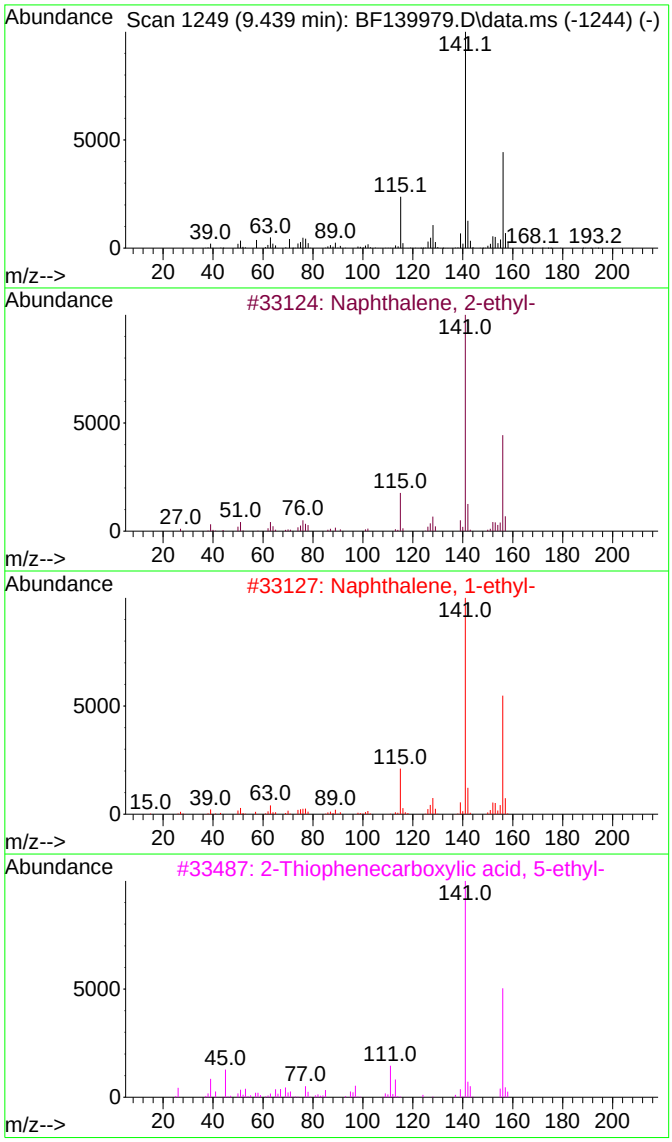
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

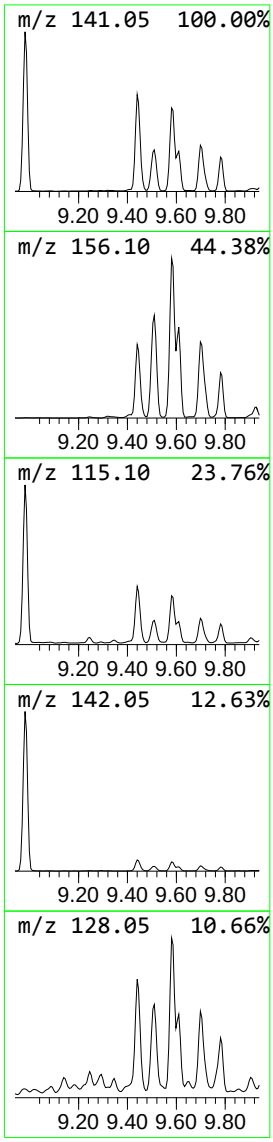
****

Peak Number 2 Naphthalene, 2-ethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.439	11.11 ng	723120	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	97
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	96
3	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	64
4	2-Amino-4-tertbutylthiazole	156	C7H12N2S	074370-93-7	59
5	4-(Methylsulfinyl)phenol	156	C7H8O2S	014763-64-5	58





Sample Results: **BF139979.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

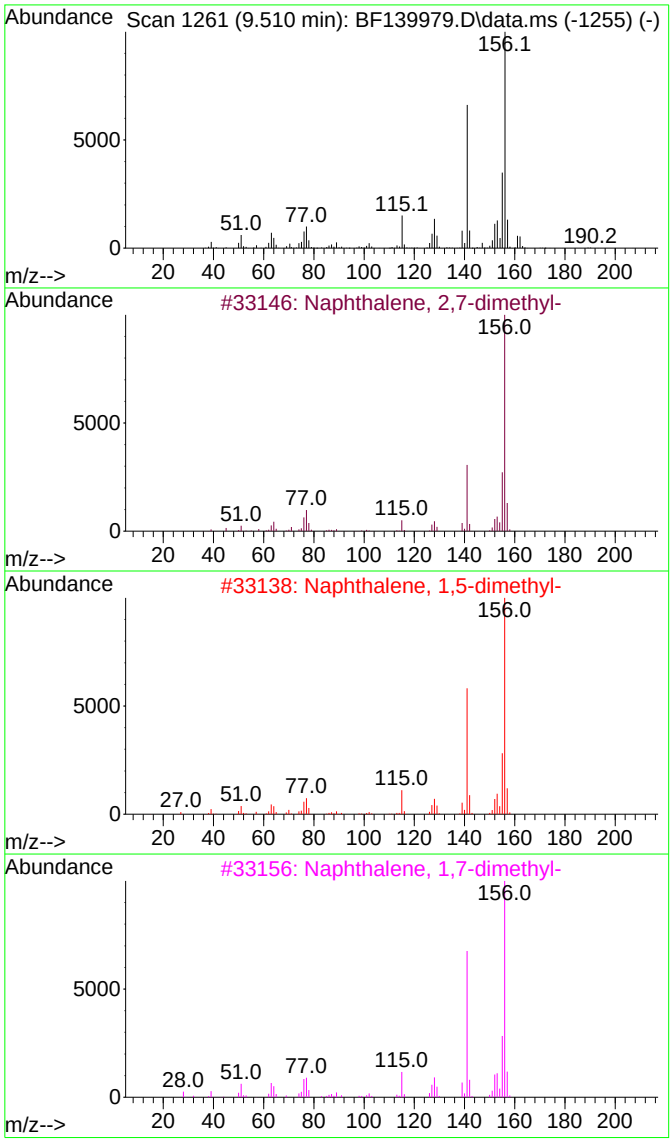
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

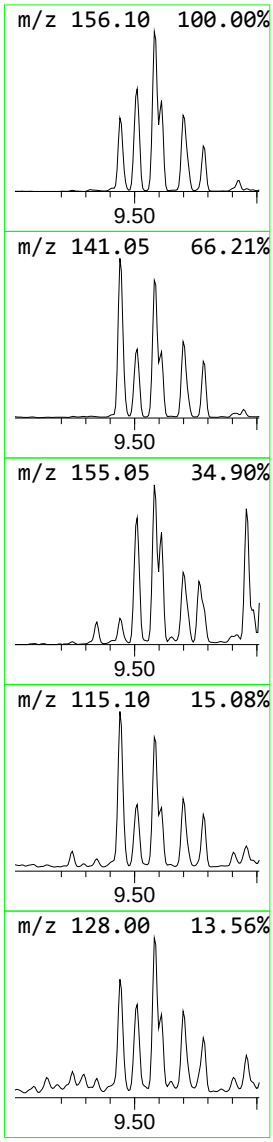
****

Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.510	9.95 ng	647111	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

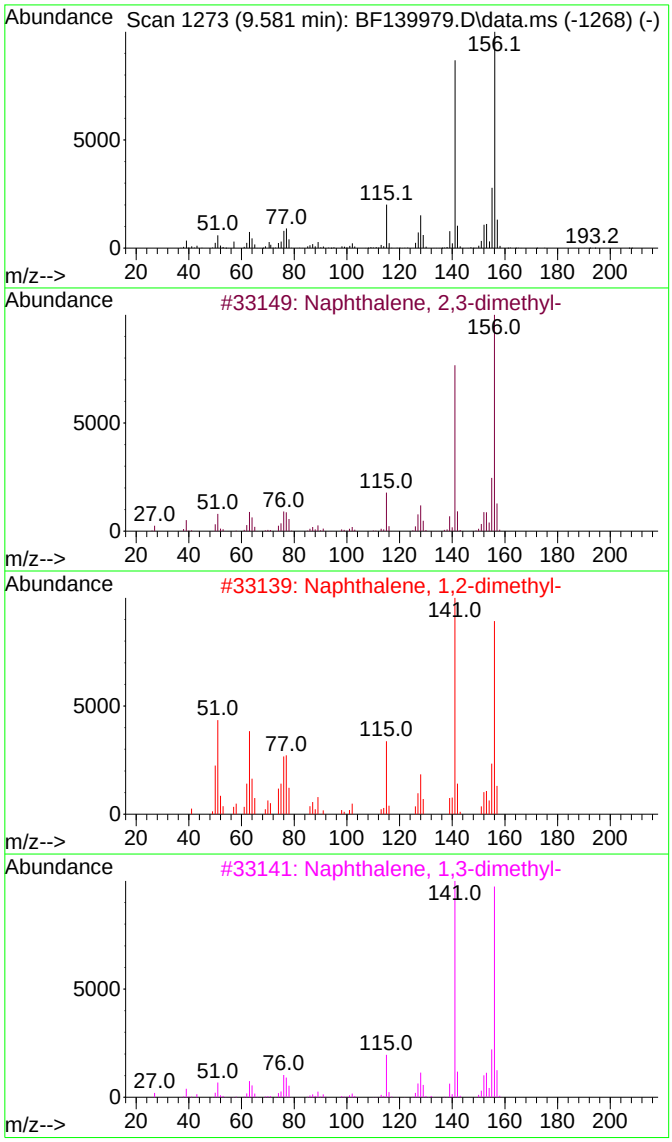
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

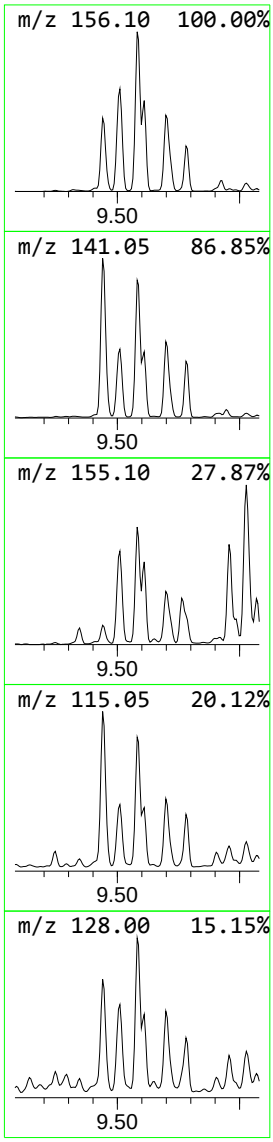
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.581	15.19 ng	988490	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

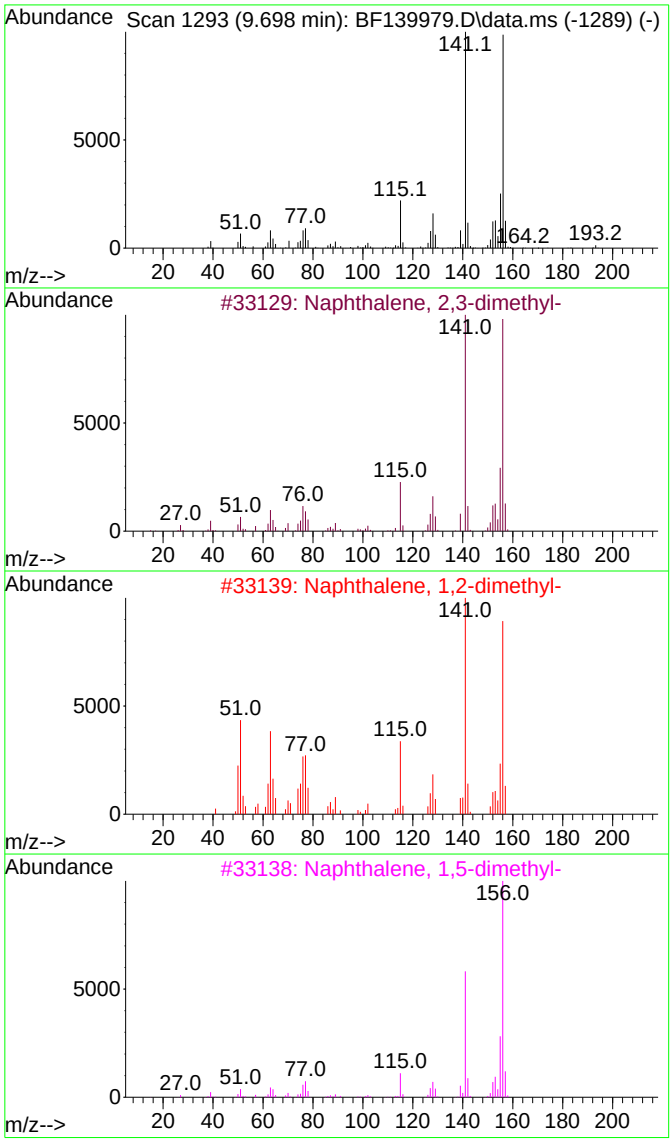
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

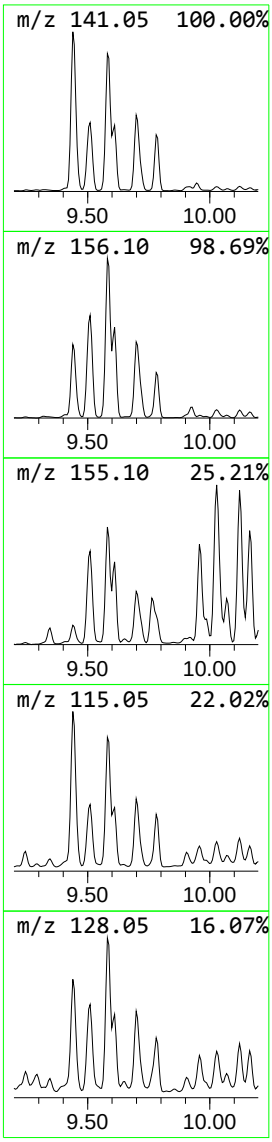
****

Peak Number 5 Naphthalene, 1,2-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.698	7.94 ng	516809	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





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Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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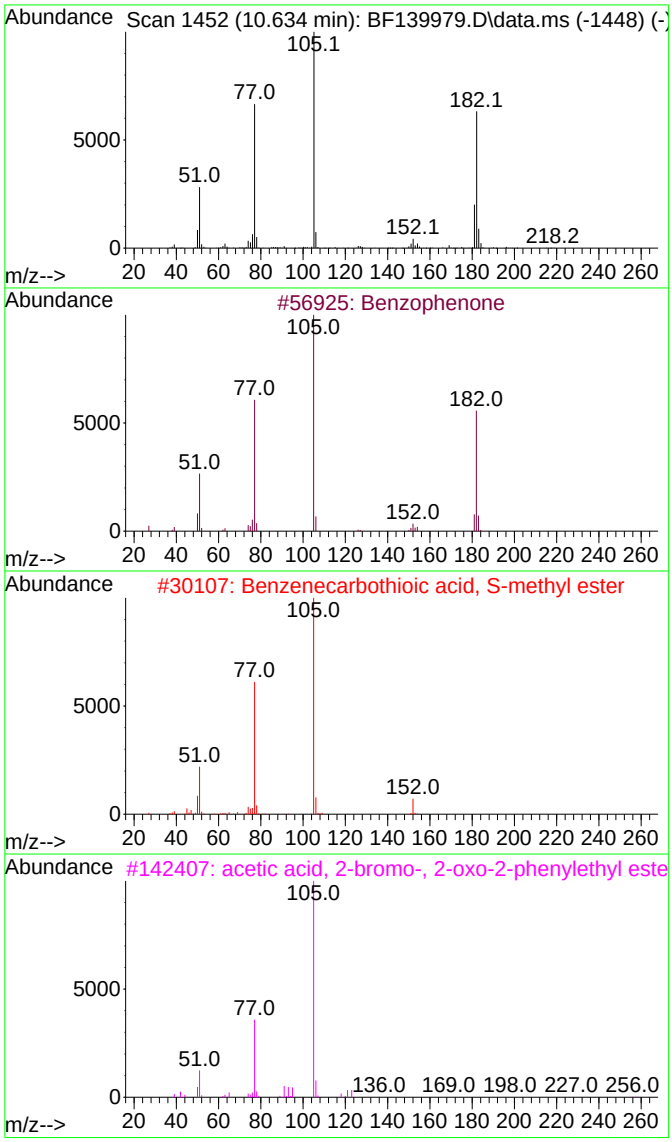
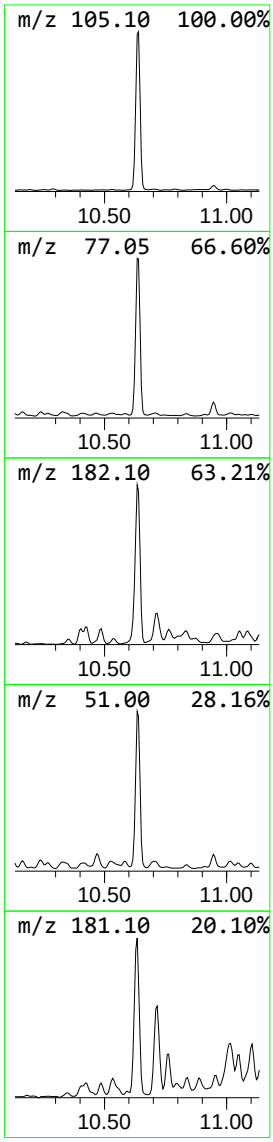
Peak Number 6 Benzophenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	10.95 ng	712153	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	95
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	46
3	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	43
4	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	43
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	43





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Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

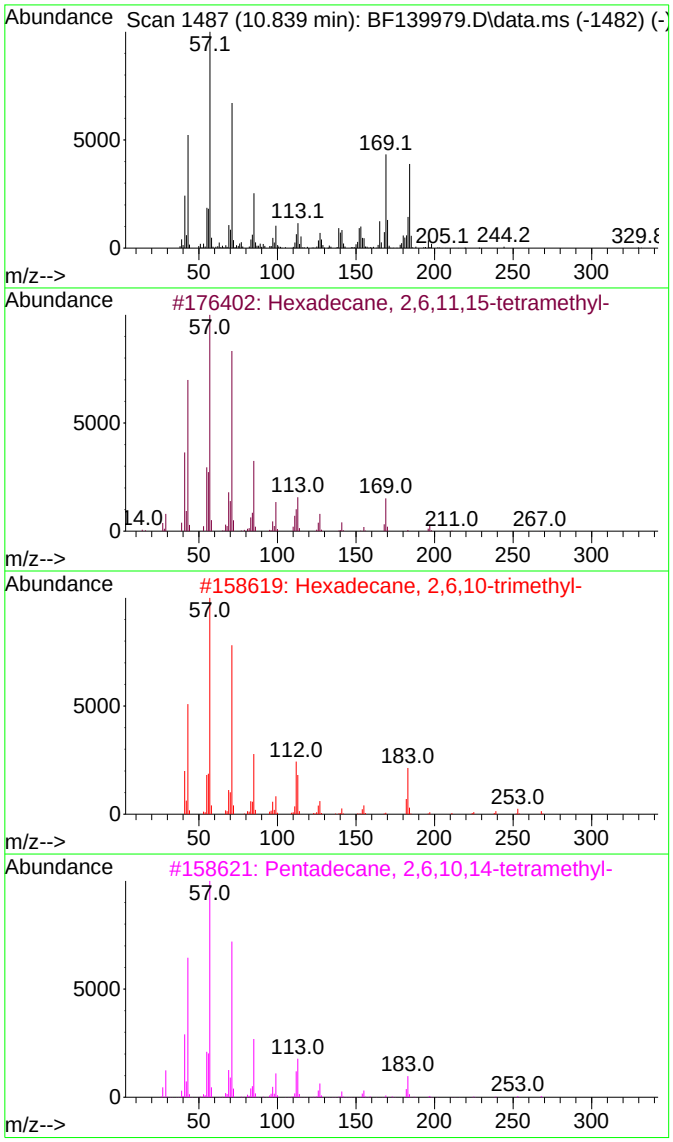
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

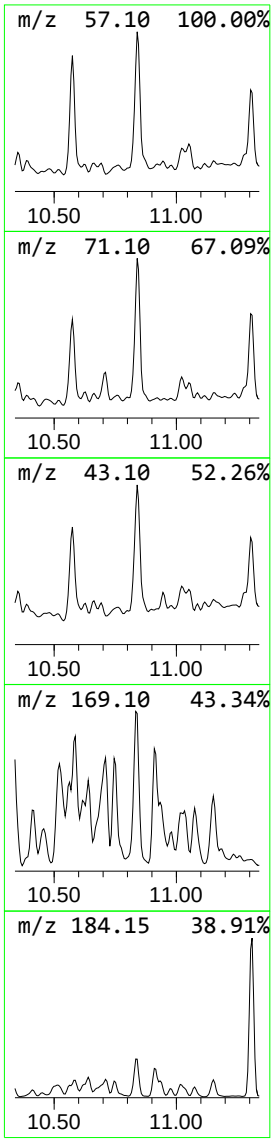
****

Peak Number 7 unknown10.839 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.839	7.25 ng	347836	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	30
2	Hexadecane, 2,6,10-trimethyl-	268	C19H40	055000-52-7	30
3	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	30
4	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	25
5	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	25





Sample Results: **BF139979.D**

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Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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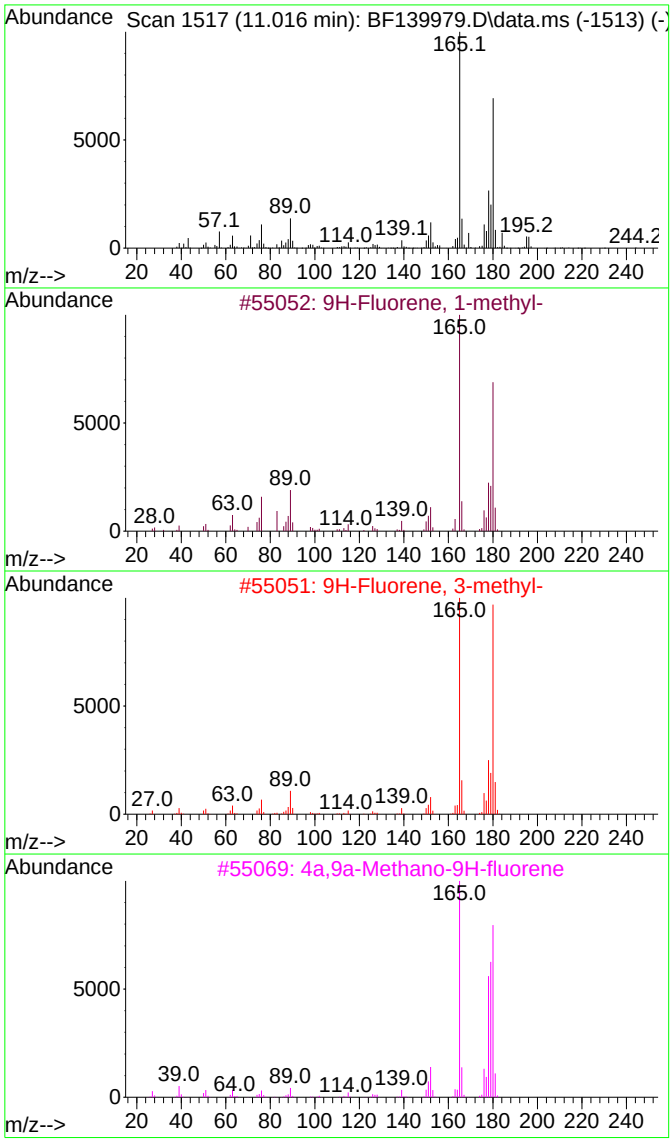
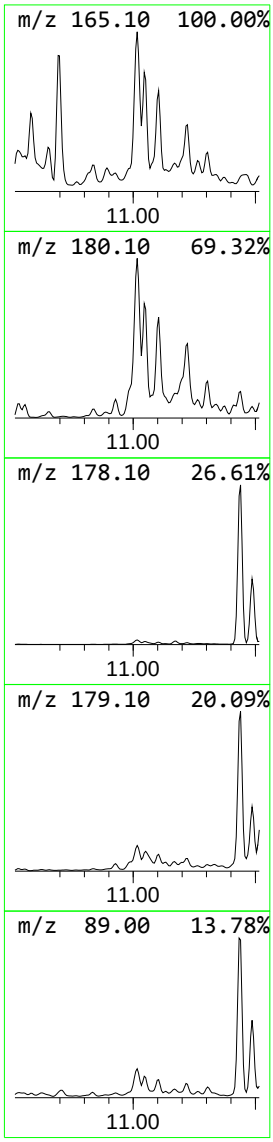
Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.016	8.22 ng	394317	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
3	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	91
4	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	72
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	68





Sample Results: **BF139979.D**

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Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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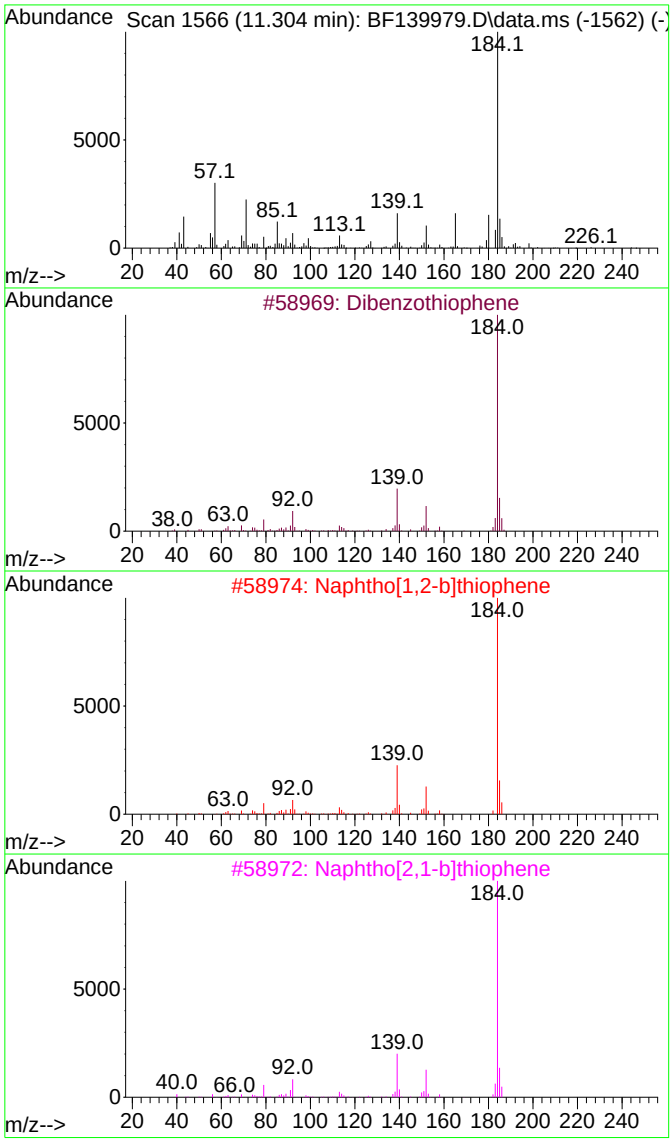
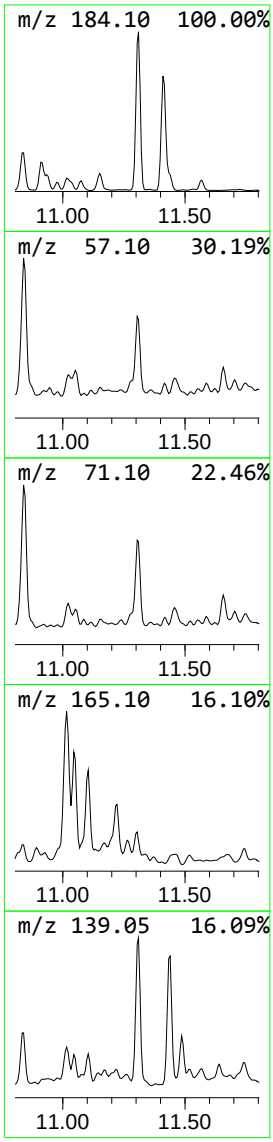
Peak Number 9 Dibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.304	7.93 ng	380348	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	83
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	83
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	64
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	64





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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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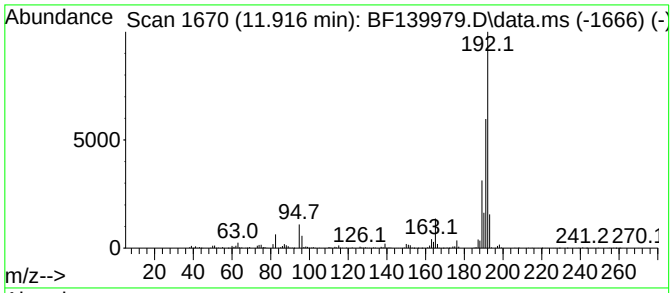
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

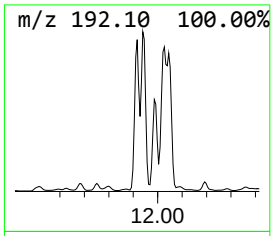
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

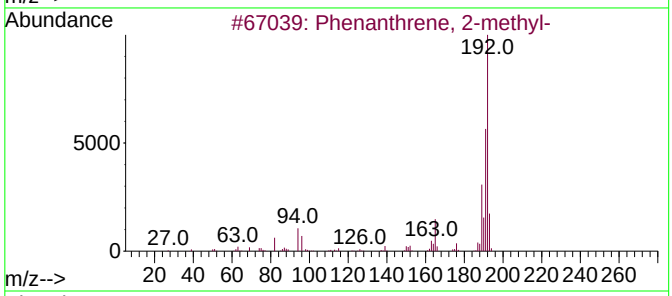
****
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 5

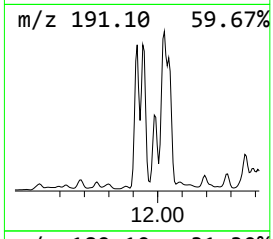
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	13.92 ng	667700	Phenanthrene-d10	11.410

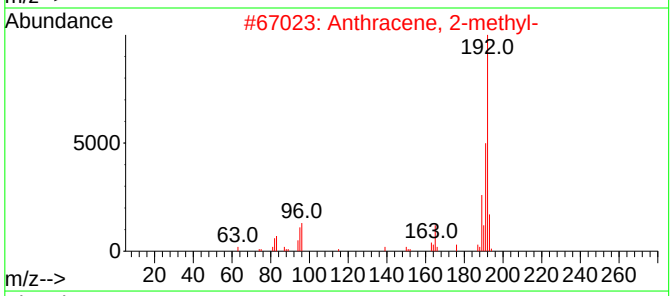
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90

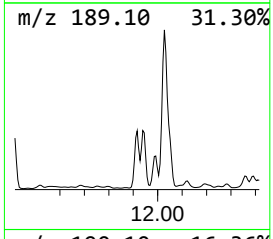


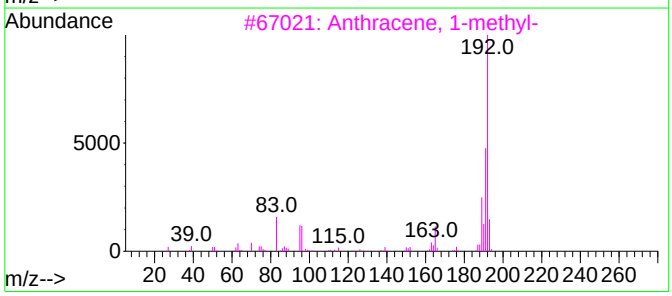


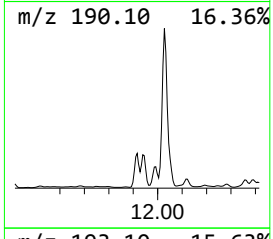


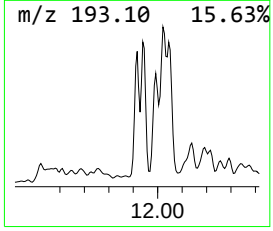












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Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

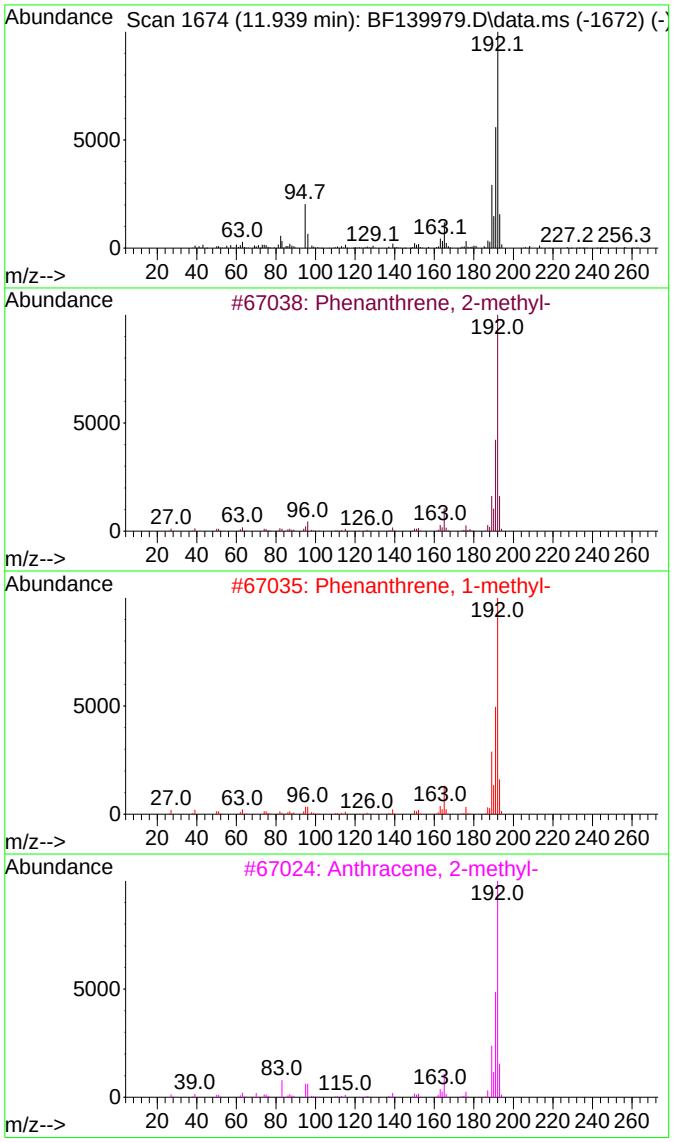
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

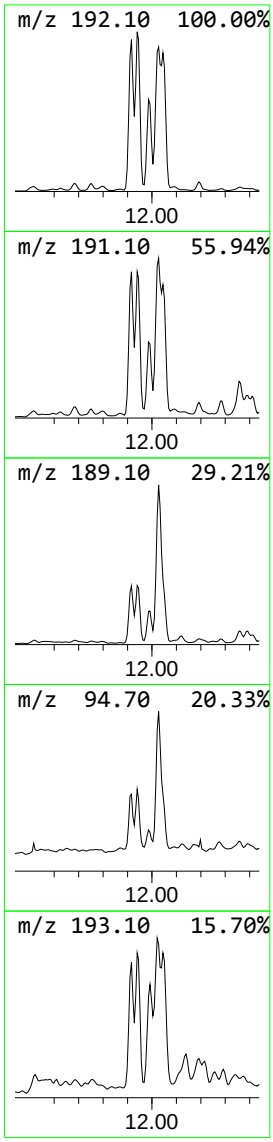
****

Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.939	16.15 ng	774649	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





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Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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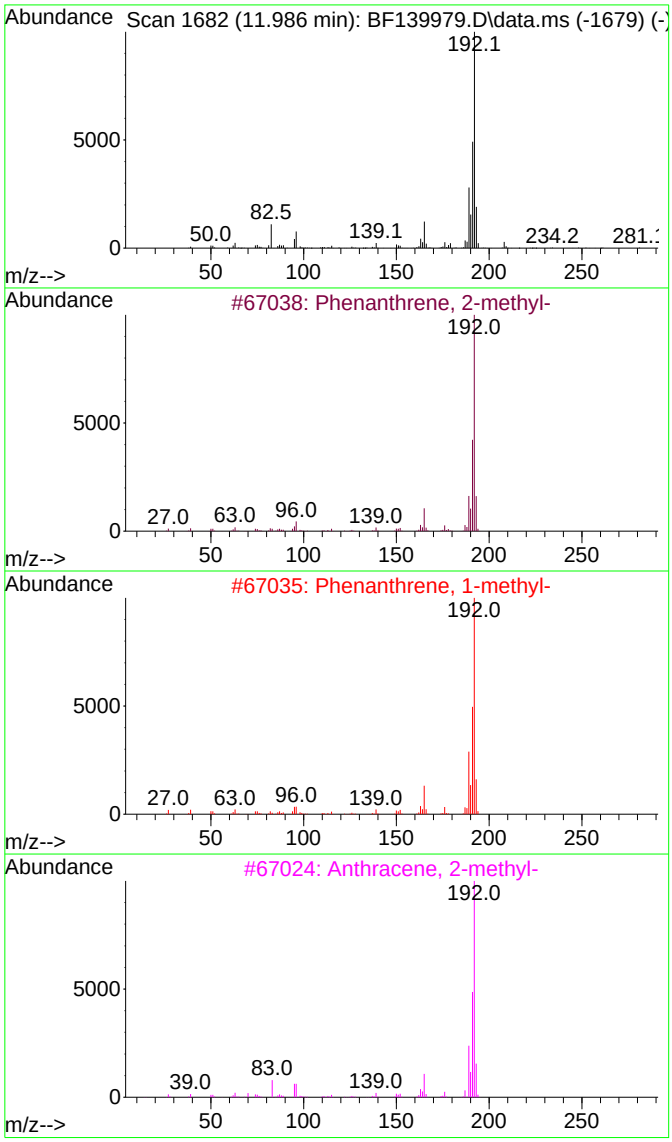
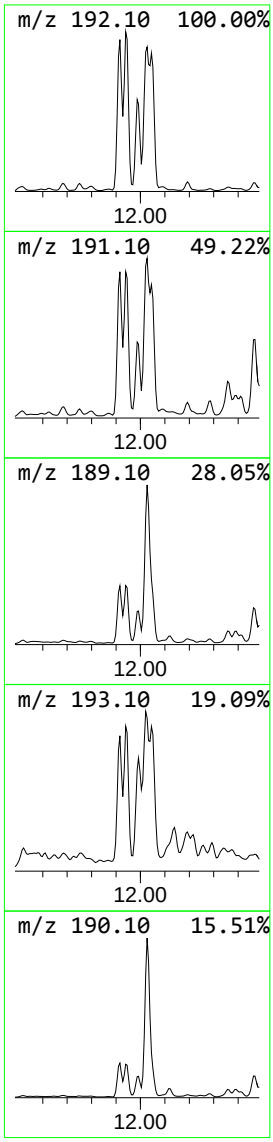
Peak Number 12 Anthracene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.986	7.92 ng	379886	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93





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ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :
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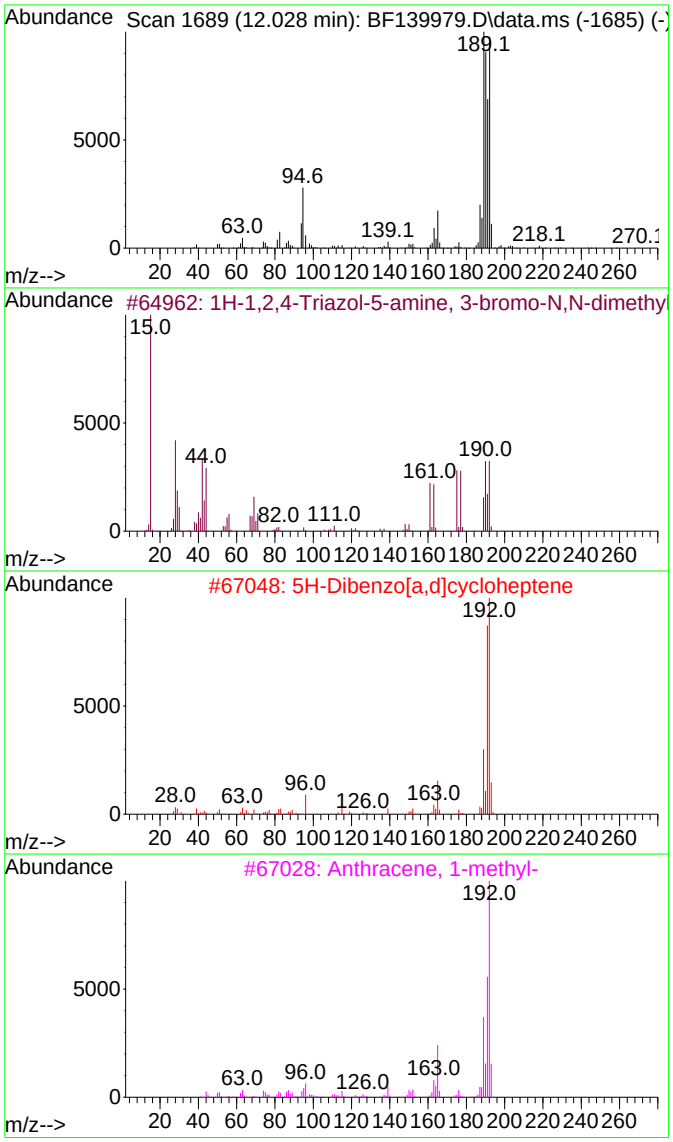
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

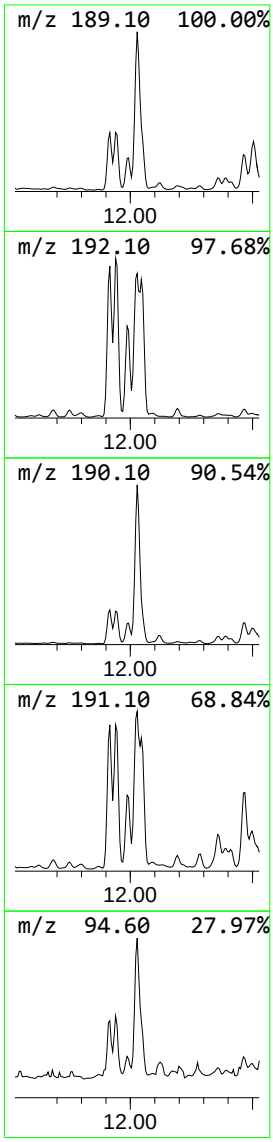
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 1H-1,2,4-Triazol-5-amine, 3... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.028	32.39 ng	1553180	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	50
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	42
4	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	38
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	38





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ALS Vial : 16 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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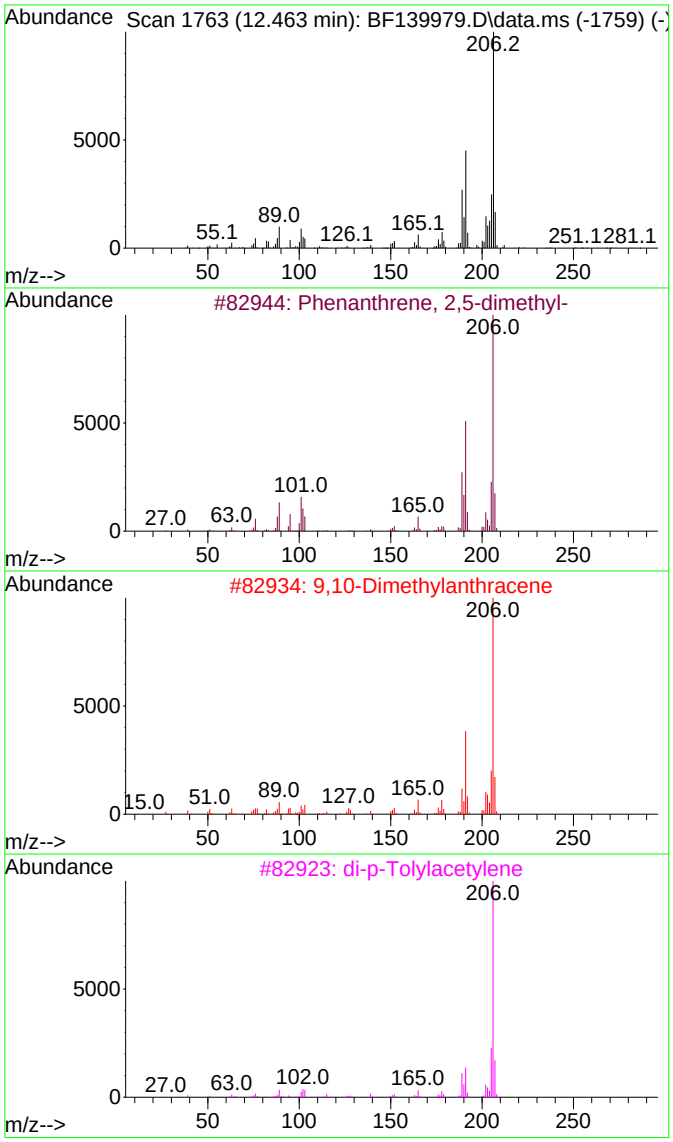
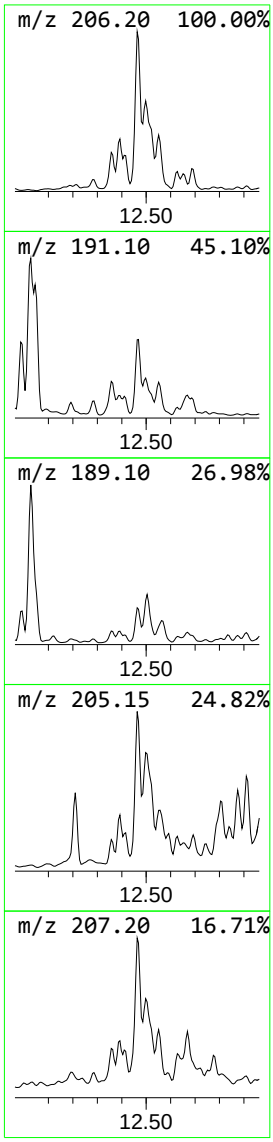
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.463	10.42 ng	499821	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

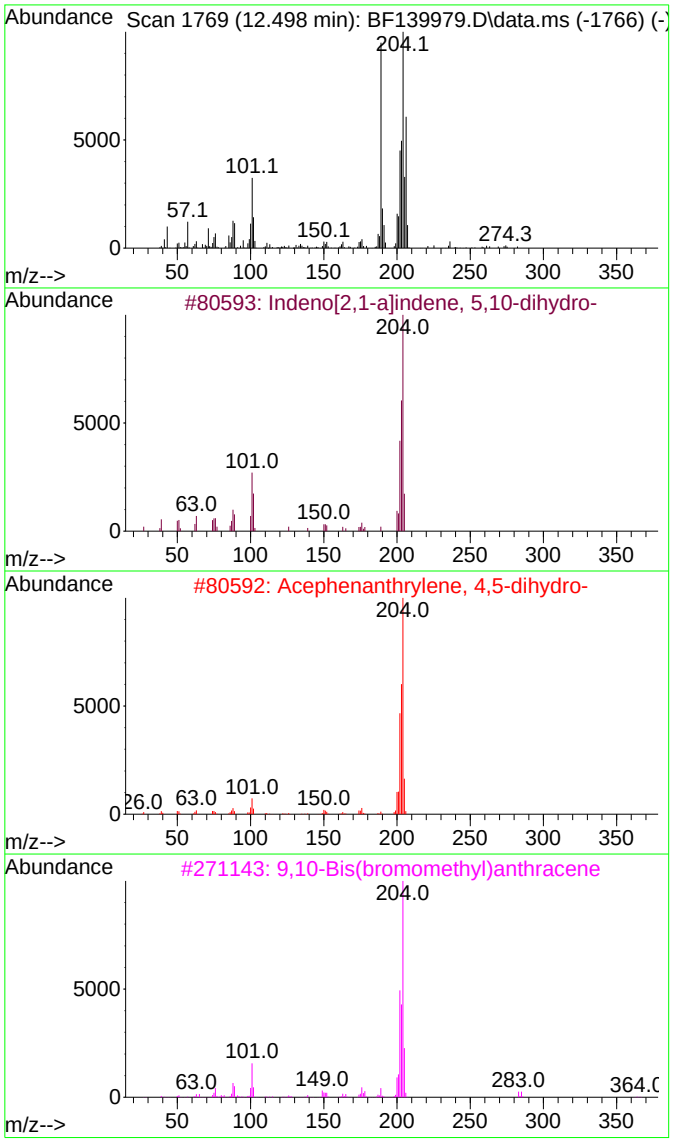
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

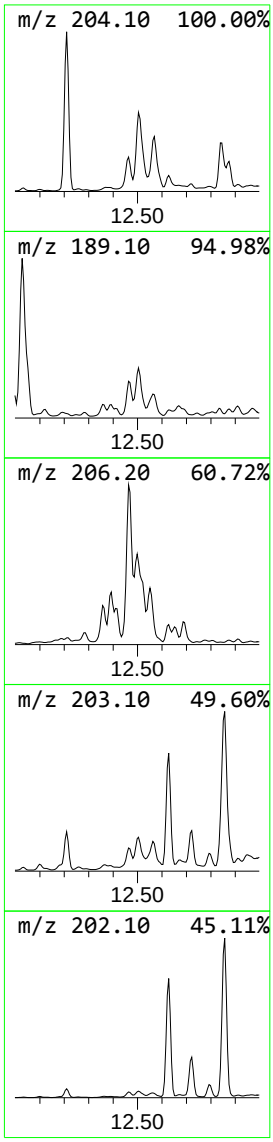
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 Indeno[2,1-a]indene, 5,10-d... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.498	9.64 ng	462255	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	86
2	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	60
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

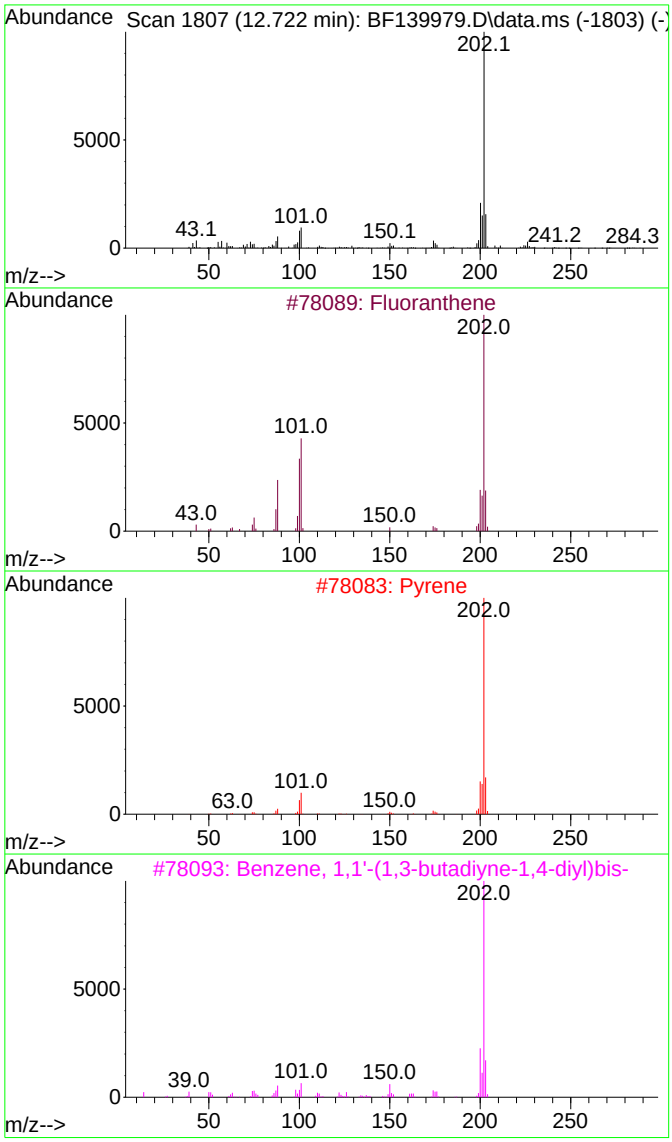
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

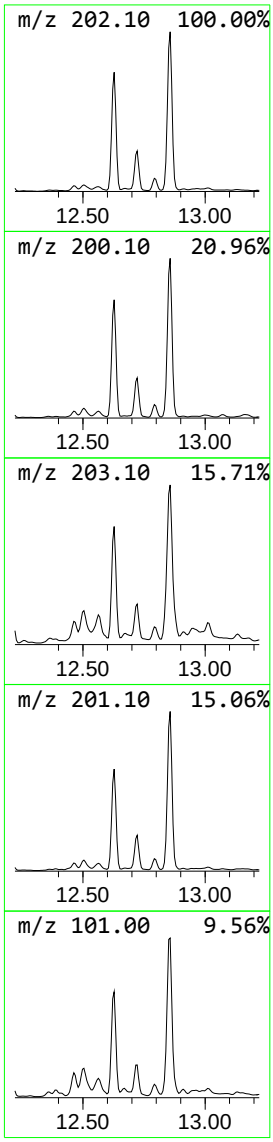
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.722	8.62 ng	413506	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	81
2	Pyrene	202	C16H10	000129-00-0	81
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	72
4	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	60
5	7H-Furo[3,2-g][1]benzopyran-7-on...	202	C11H6O4	002009-24-7	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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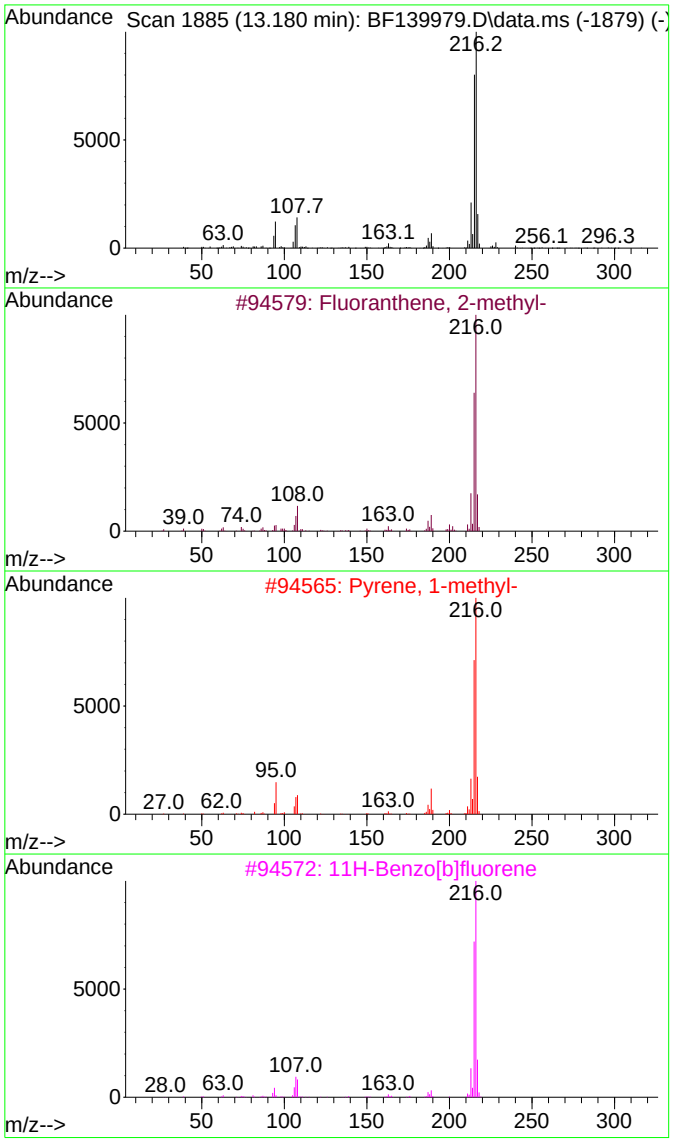
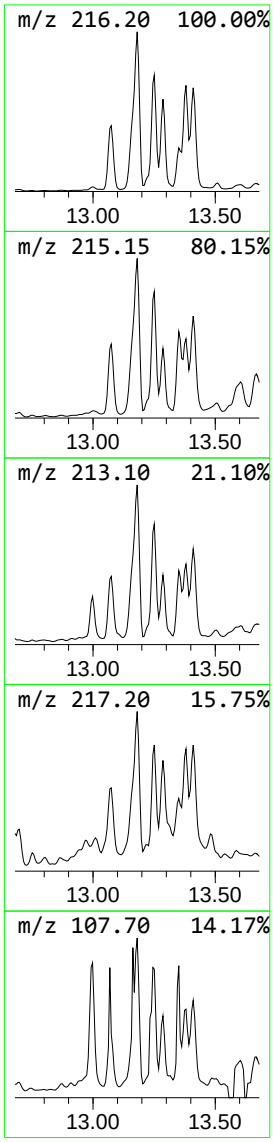
Peak Number 17 Fluoranthene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.180	7.41 ng	739695	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	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\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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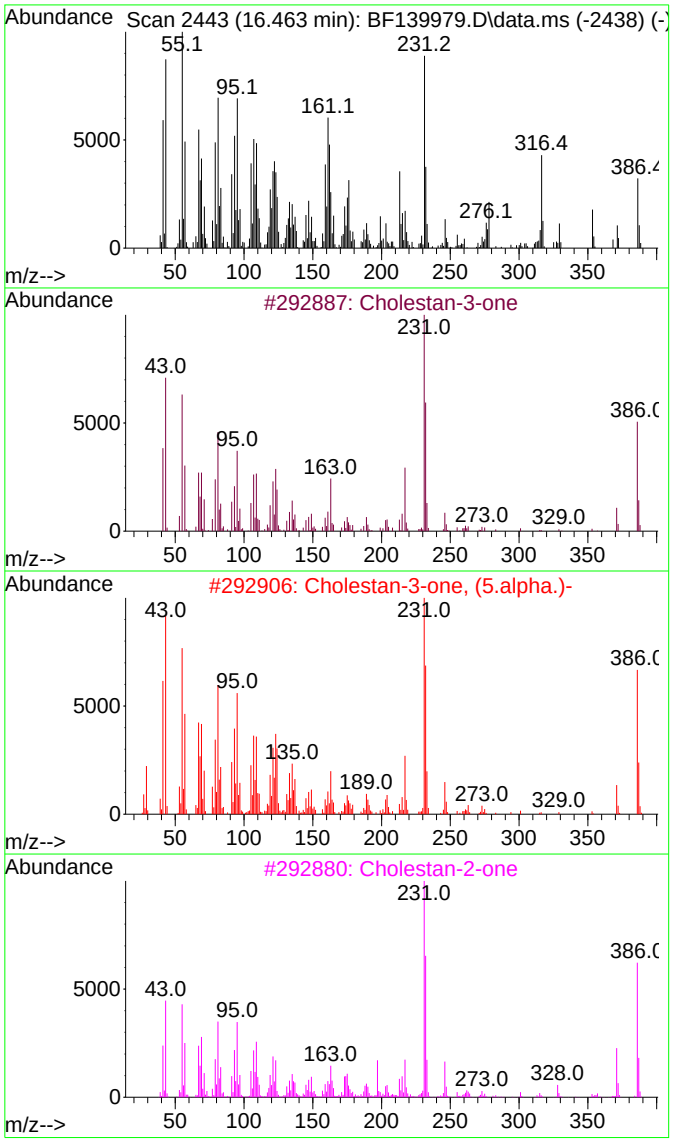
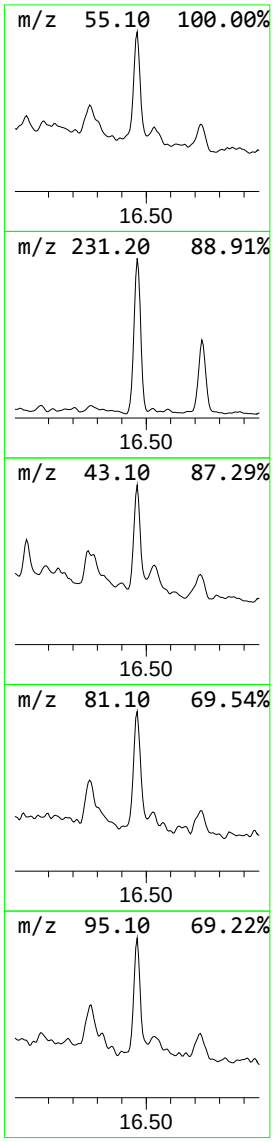
Peak Number 18 Cholestan-3-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.462	7.25 ng	336317	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3-one	386	C27H46O	015600-08-5	90
2	Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	90
3	Cholestan-2-one	386	C27H46O	1010210-43-4	68
4	Cholestan-3-one, (5.beta.)-	386	C27H46O	000601-53-6	43
5	Arnicolide A (isomer 1)	306	C17H22O5	1000495-69-7	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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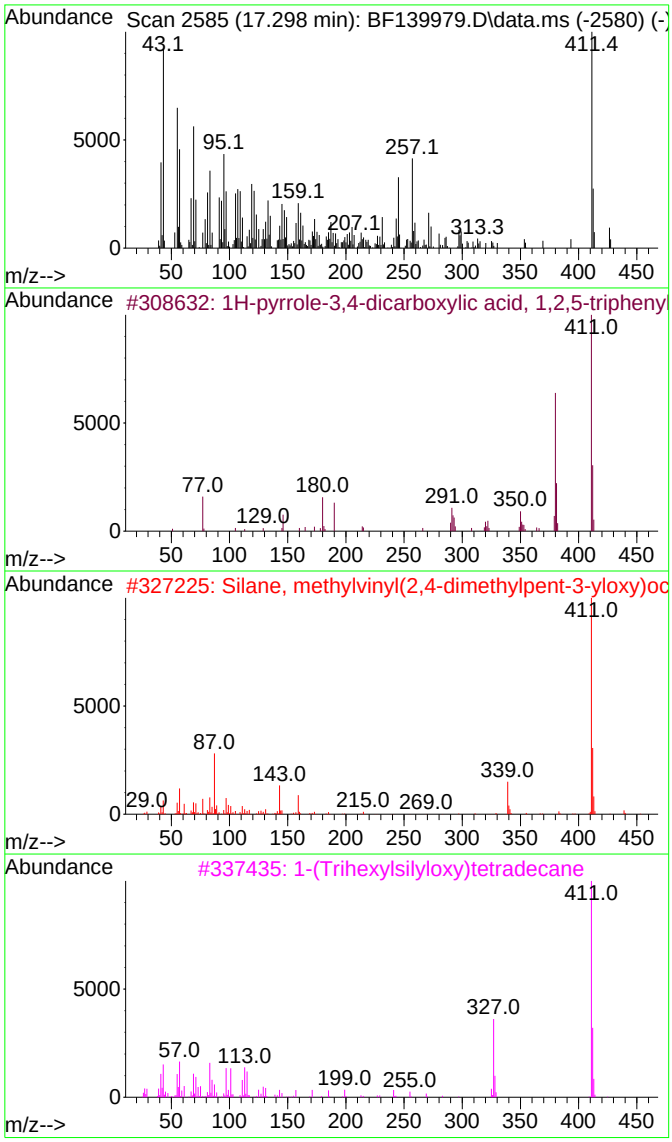
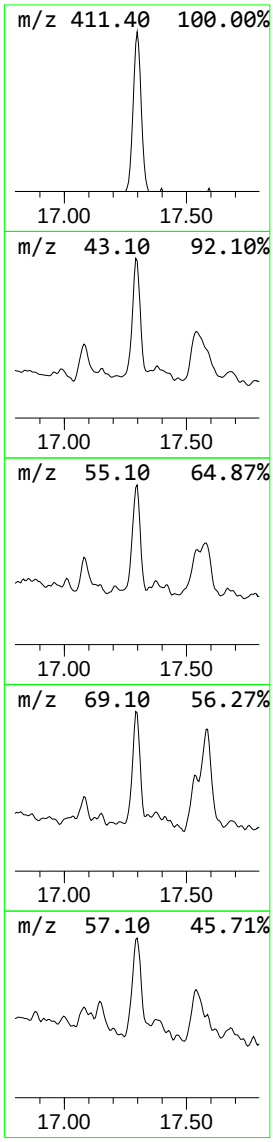
Peak Number 19 unknown17.298 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.298	6.95 ng	322215	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-pyrrole-3,4-dicarboxylic acid...	411	C26H21NO4	1000399-06-9	27
2	Silane, methylvinyl(2,4-dimethyl...	454	C28H58O2Si	1010416-92-1	27
3	1-(Trihexylsilyloxy)tetradecane	497	C32H68OSi	1000308-32-9	27
4	Tricosanoic acid, TBDMS derivative	468	C29H60O2Si	1000352-40-3	27
5	2,4-Diamino-N-[3,4-dichlorobenzy...	411	C16H15Cl2N5O2S	092144-31-5	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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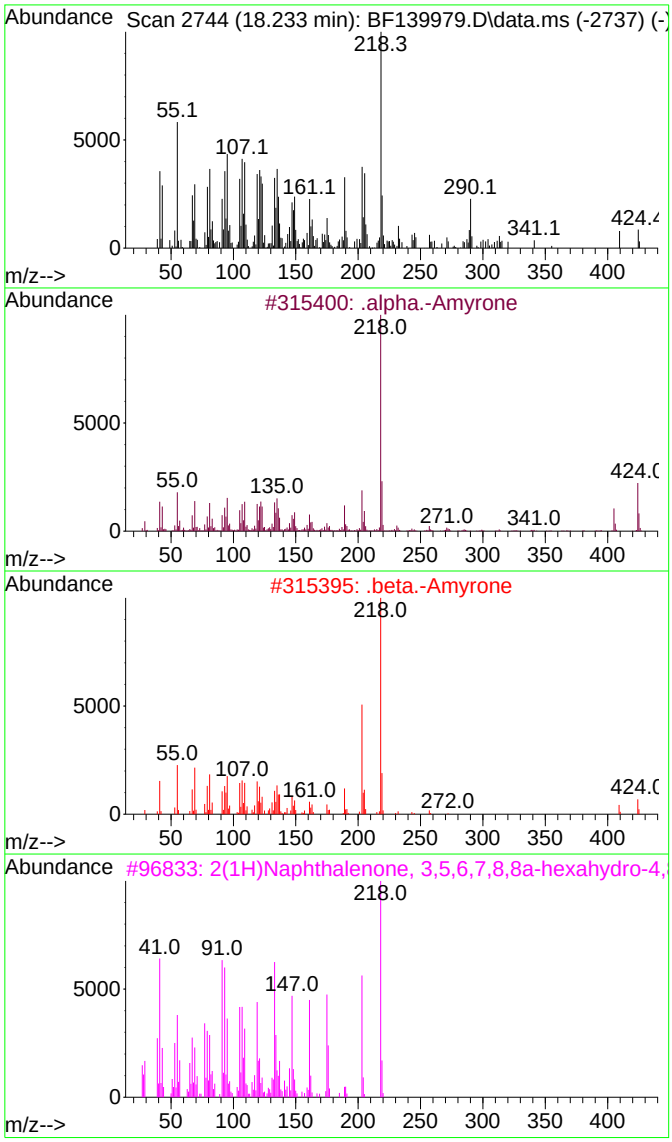
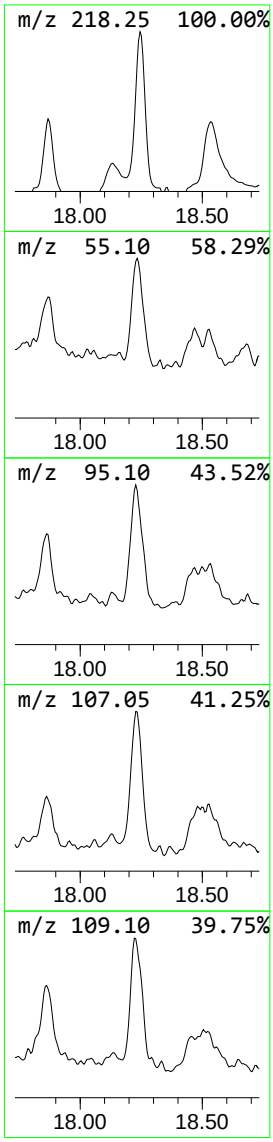
Peak Number 20 .alpha.-Amyrone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.233	8.89 ng	412017	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Amyrone	424	C30H48O	000638-96-0	97
2	.beta.-Amyrone	424	C30H48O	000638-97-1	87
3	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	72
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	64
5	7-Isopropenyl-1,4a-dimethyl-4,4a...	218	C15H22O	000473-08-5	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139979.D
Acq On : 23 Oct 2024 22:17
Operator : RC/JU
Sample : P4397-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.205	78.9	ng	3596290	1	6.887	911517	20.0
Naphthalene, 2-...	9.439	11.1	ng	723120	3	9.928	1301200	20.0
Naphthalene, 2,...	9.510	9.9	ng	647111	3	9.928	1301200	20.0
Naphthalene, 2,...	9.581	15.2	ng	988490	3	9.928	1301200	20.0
Naphthalene, 1,...	9.698	7.9	ng	516809	3	9.928	1301200	20.0
Benzophenone	10.634	10.9	ng	712153	3	9.928	1301200	20.0
unknown10.839	10.839	7.3	ng	347836	4	11.410	959149	20.0
9H-Fluorene, 1-...	11.016	8.2	ng	394317	4	11.410	959149	20.0
Dibenzothiophene	11.304	7.9	ng	380348	4	11.410	959149	20.0
Phenanthrene, 2...	11.916	13.9	ng	667700	4	11.410	959149	20.0
Phenanthrene, 1...	11.939	16.1	ng	774649	4	11.410	959149	20.0
Anthracene, 2-m...	11.986	7.9	ng	379886	4	11.410	959149	20.0
1H-1,2,4-Triazo...	12.028	32.4	ng	1553180	4	11.410	959149	20.0
Phenanthrene, 2...	12.463	10.4	ng	499821	4	11.410	959149	20.0
Indeno[2,1-a]in...	12.498	9.6	ng	462255	4	11.410	959149	20.0
Benzene, 1,1'-(...	12.722	8.6	ng	413506	4	11.410	959149	20.0
Fluoranthene, 2...	13.180	7.4	ng	739695	5	14.051	1995550	20.0
Cholestan-3-one	16.462	7.3	ng	336317	6	15.533	927302	20.0
unknown17.298	17.298	7.0	ng	322215	6	15.533	927302	20.0
.alpha.-Amyrone	18.233	8.9	ng	412017	6	15.533	927302	20.0

Raw Data: **BF139976.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	240	U	240	430	ug/Kg
108-95-2	Phenol	110	U	110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	220	ug/Kg
95-48-7	2-Methylphenol	110	U	110	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	220	ug/Kg
98-86-2	Acetophenone	110	U	110	220	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.0	U	53.0	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	220	ug/Kg
78-59-1	Isophorone	110	U	110	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	99.3	U	99.3	220	ug/Kg
91-20-3	Naphthalene	110	U	110	220	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	220	ug/Kg
105-60-2	Caprolactam	110	U	110	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	100	U	100	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	UQ	210	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	93.9	U	93.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	97.3	U	97.3	220	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	220	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	220	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	220	ug/Kg

Raw Data: **BF139976.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	220	ug/Kg
99-09-2	3-Nitroaniline	120	UQ	120	220	ug/Kg
83-32-9	Acenaphthene	140	J	110	220	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	320	430	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	430	ug/Kg
132-64-9	Dibenzofuran	110	U	110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	220	ug/Kg
84-66-2	Diethylphthalate	110	U	110	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	220	ug/Kg
86-73-7	Fluorene	110	U	110	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	UQ	150	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	220	ug/Kg
1912-24-9	Atrazine	120	U	120	220	ug/Kg
87-86-5	Pentachlorophenol	100	U	100	430	ug/Kg
85-01-8	Phenanthrene	330		110	220	ug/Kg
120-12-7	Anthracene	110	J	110	220	ug/Kg
86-74-8	Carbazole	110	U	110	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	220	ug/Kg
206-44-0	Fluoranthene	150	J	110	220	ug/Kg
129-00-0	Pyrene	130	J	110	220	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	430	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	220	ug/Kg
218-01-9	Chrysene	100	U	100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	U	110	220	ug/Kg

Raw Data: **BF139976.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	98.2	U	98.2	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	113		30 (18) - 130 (112)	76%	SPK: 150
13127-88-3	Phenol-d6	108		30 (15) - 130 (107)	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.8		30 (18) - 130 (107)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.6		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	57.6		30 (10) - 130 (105)	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	146000	6.893			
1146-65-2	Naphthalene-d8	542000	8.169			
15067-26-2	Acenaphthene-d10	263000	9.922			
1517-22-2	Phenanthrene-d10	381000	11.41			
1719-03-5	Chrysene-d12	321000	14.051			
1520-96-3	Perylene-d12	307000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4000	JB		2.22	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.12	ug/Kg
000544-76-3	Hexadecane	91.6	J		9.32	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	110	J		9.58	ug/Kg
000629-92-5	Nonadecane	91.2	J		10.4	ug/Kg
000119-61-9	Benzophenone	690	J		10.6	ug/Kg
013187-99-0	2-Bromo dodecane	110	J		10.8	ug/Kg

Raw Data: **BF139976.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139976.D	1	10/14/24 10:40	10/23/24 20:51	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	96.9	J		10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	340	J		11.9	ug/Kg
	unknown12.022	150	J		12.0	ug/Kg
	unknown12.498	100	J		12.5	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	160	J		13.9	ug/Kg
015600-08-5	Cholestan-3-one	100	J		16.5	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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Time: Oct 24 01:12:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

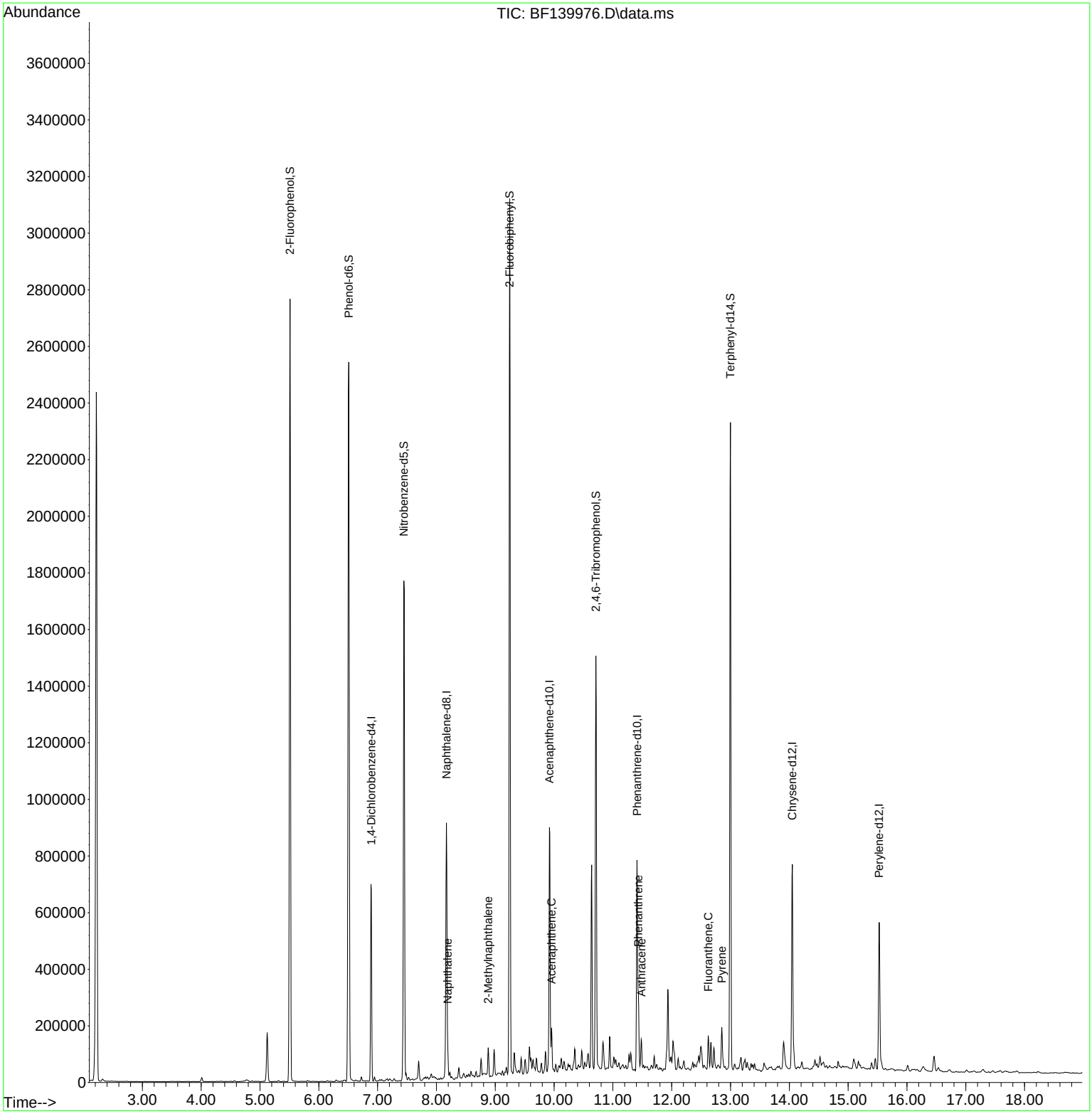
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	146113	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	542139	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	263407	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	381099	20.000	ng	0.00
76) Chrysene-d12	14.051	240	321287	20.000	ng	0.00
86) Perylene-d12	15.527	264	306800	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1058310	113.390	ng	0.01
7) Phenol-d6	6.510	99	1308970	108.285	ng	0.00
23) Nitrobenzene-d5	7.445	82	819717	83.801	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	251339	102.012	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1364688	85.625	ng	0.00
79) Terphenyl-d14	12.998	244	1135897	57.610	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.192	128	56302	2.014	ng	99
37) 2-Methylnaphthalene	8.881	142	37673	2.200	ng	98
52) Acenaphthene	9.957	154	43848	3.175	ng	98
71) Phenanthrene	11.433	178	135628	7.534	ng	99
72) Anthracene	11.486	178	43687	2.487	ng	99
75) Fluoranthene	12.622	202	61855	3.399	ng	100
78) Pyrene	12.851	202	81427	2.895	ng	99

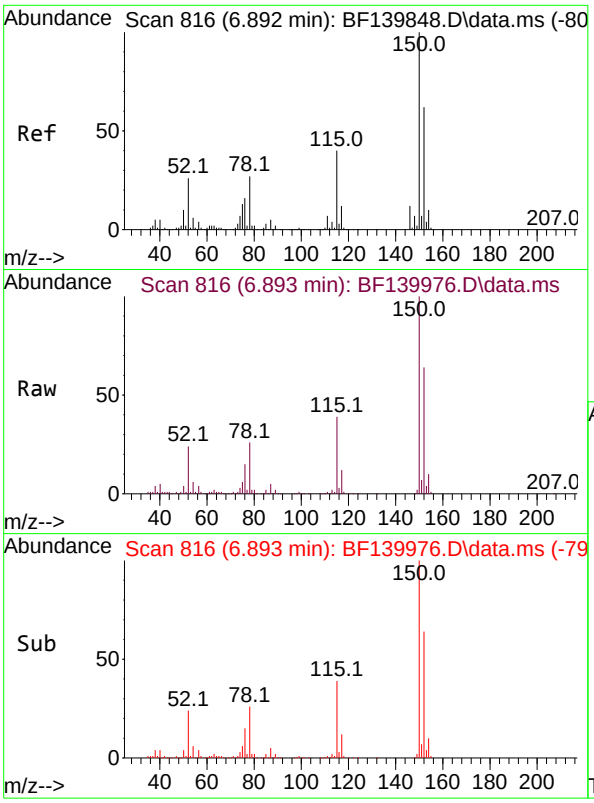
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Time: Oct 24 01:12:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



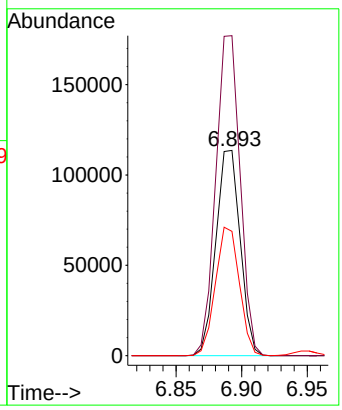


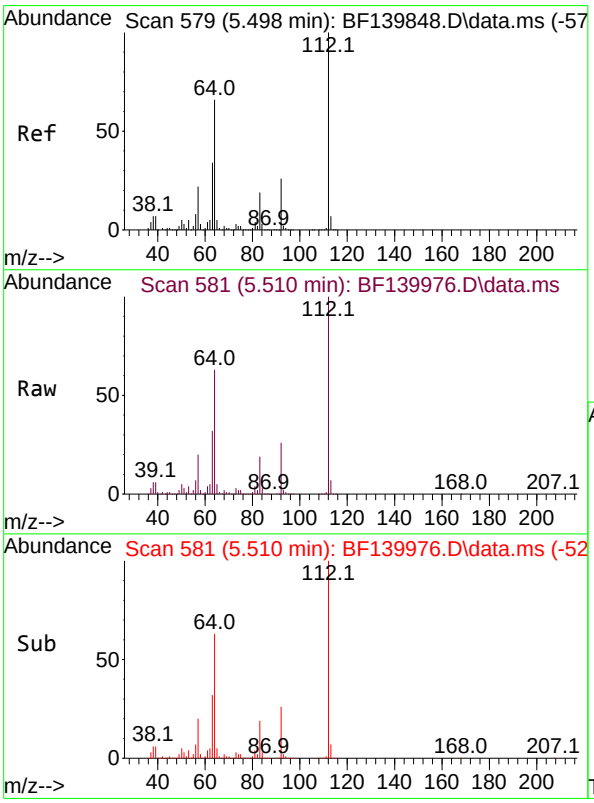
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:152 Resp: 146113

Ion	Ratio	Lower	Upper
152	100		
150	155.9	130.2	195.2
115	60.5	51.4	77.2

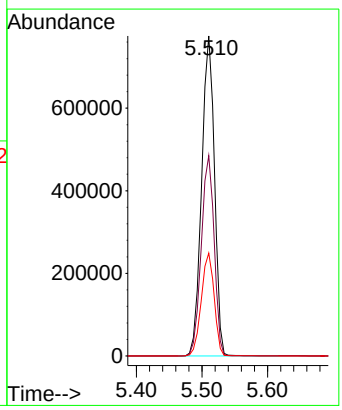


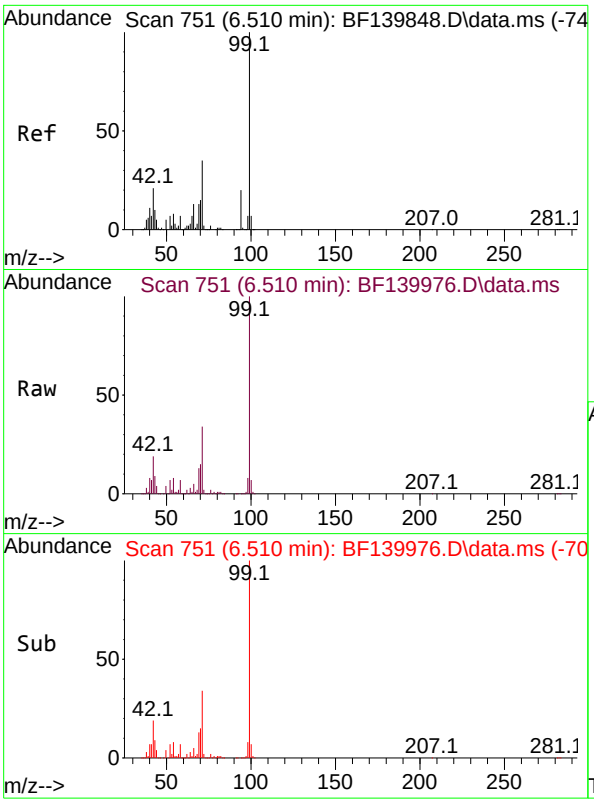


#5
2-Fluorophenol
Concen: 113.390 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:112 Resp: 1058310

Ion	Ratio	Lower	Upper
112	100		
64	62.6	53.0	79.6
63	32.2	27.0	40.4



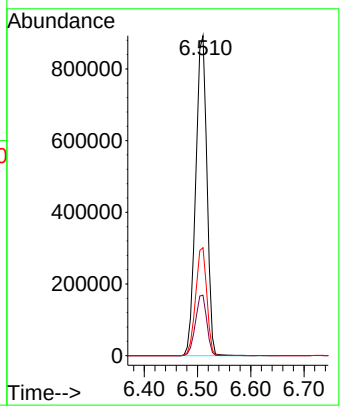


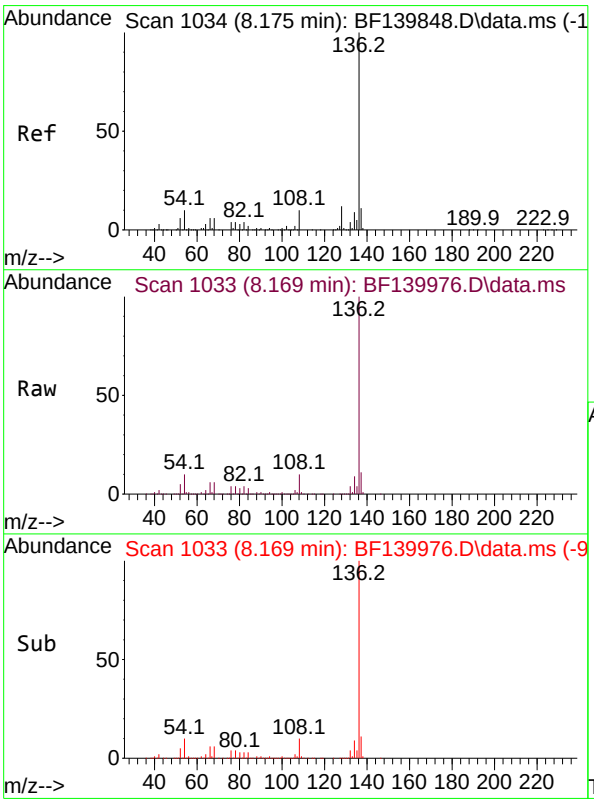
#7
Phenol-d6
Concen: 108.285 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion: 99 Resp: 1308970

Ion	Ratio	Lower	Upper
99	100		
42	18.9	16.7	25.1
71	33.7	27.7	41.5

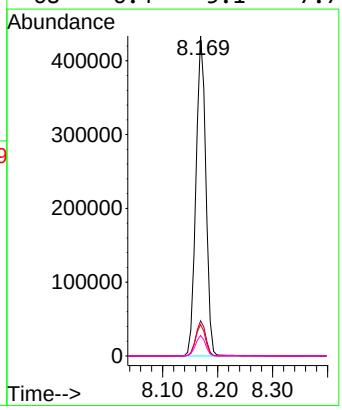


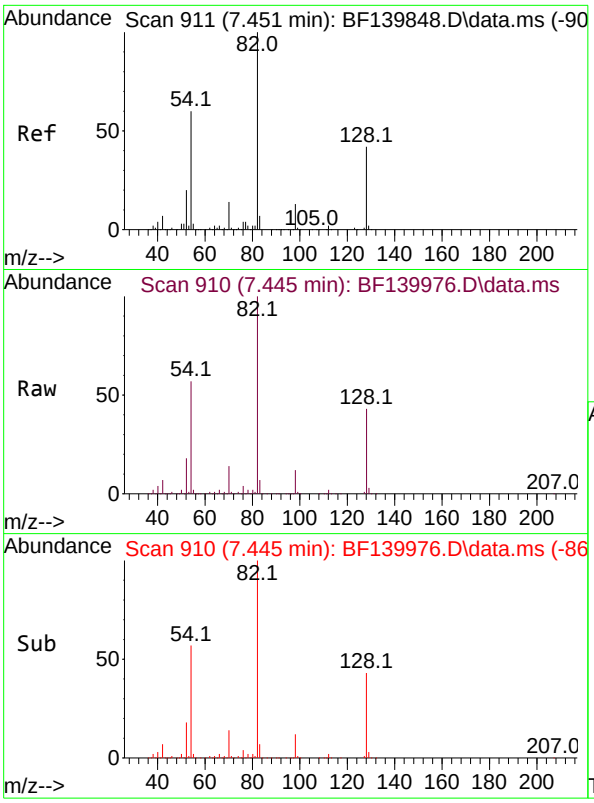


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:136 Resp: 542139

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.8	8.4	12.6
68	6.4	5.1	7.7



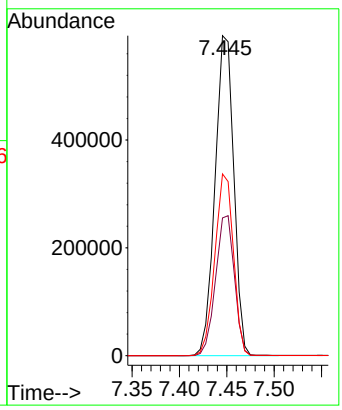


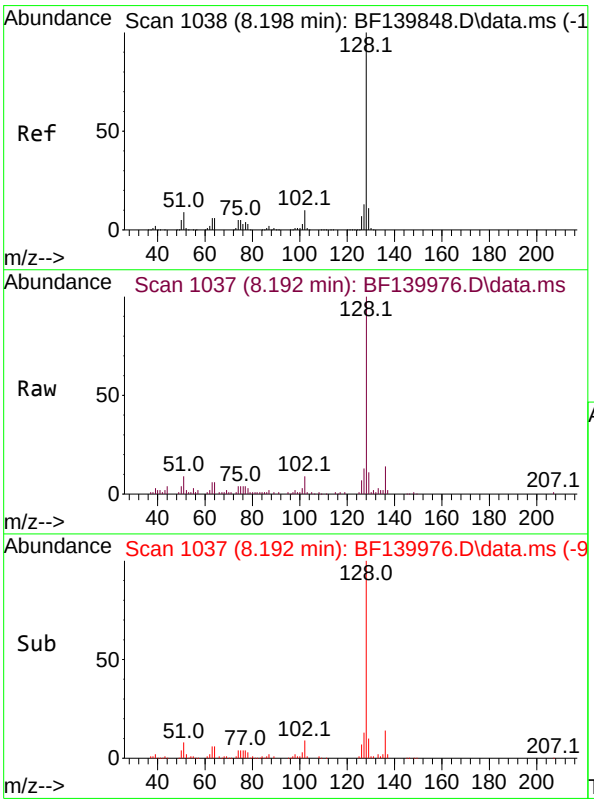
#23
Nitrobenzene-d5
Concen: 83.801 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion: 82 Resp: 819717

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.4	50.0
54	56.8	47.8	71.8

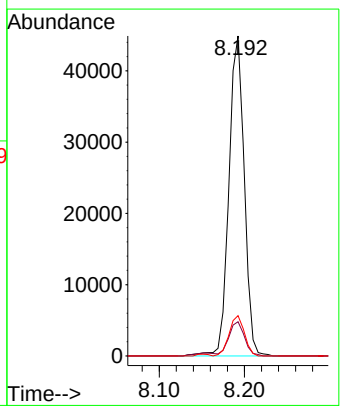


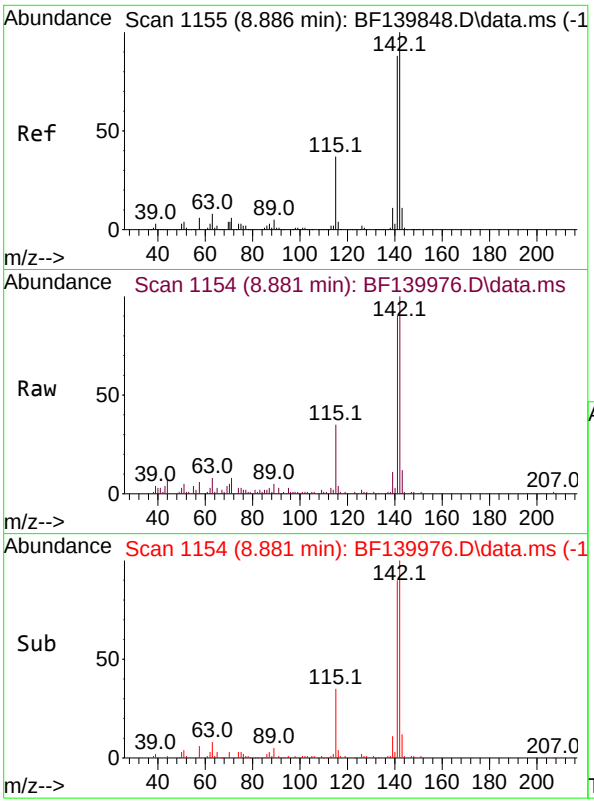


#31
Naphthalene
Concen: 2.014 ng
RT: 8.192 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:128 Resp: 56302

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	12.6	10.6	16.0



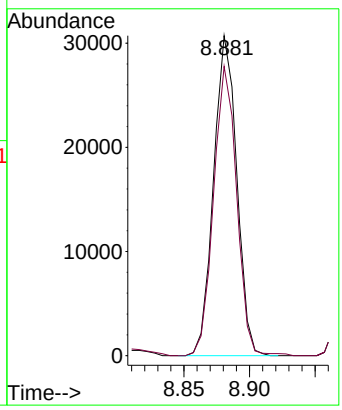


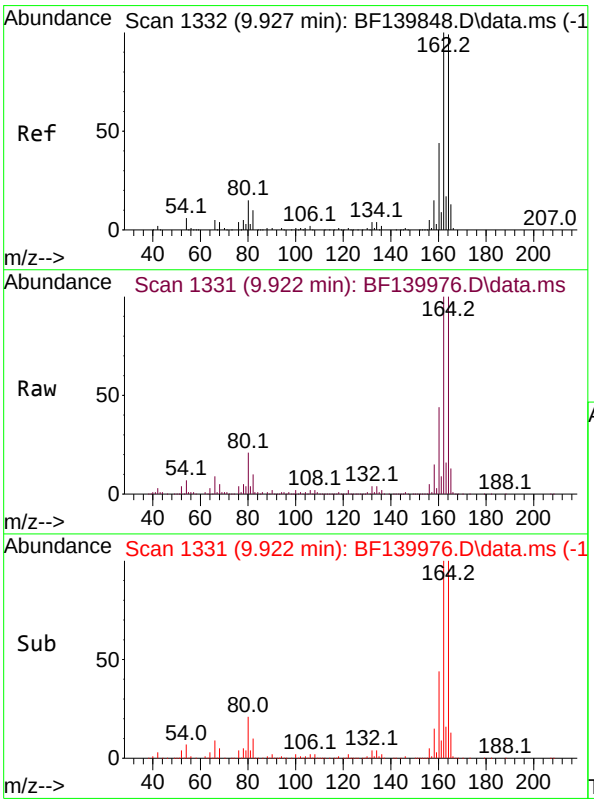
#37
2-Methylnaphthalene
Concen: 2.200 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:142 Resp: 37673

Ion	Ratio	Lower	Upper
142	100		
141	90.4	70.8	106.2

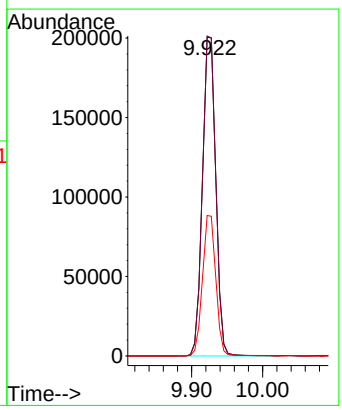


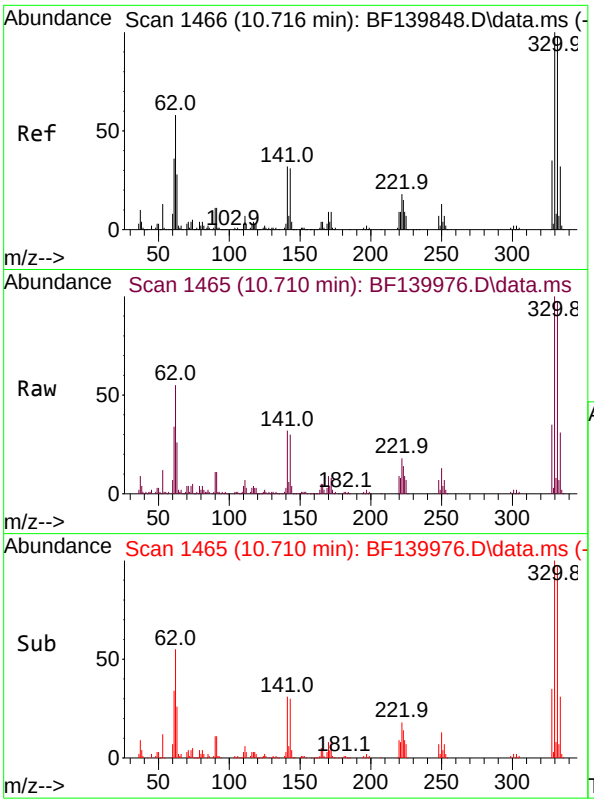


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:164 Resp: 263407

Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.0	121.4
160	44.0	35.4	53.0



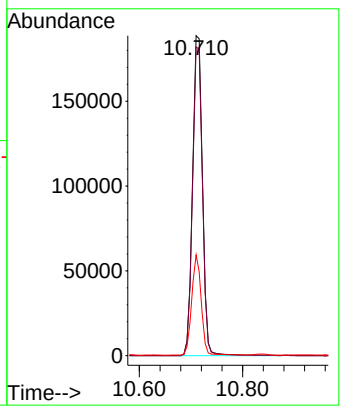


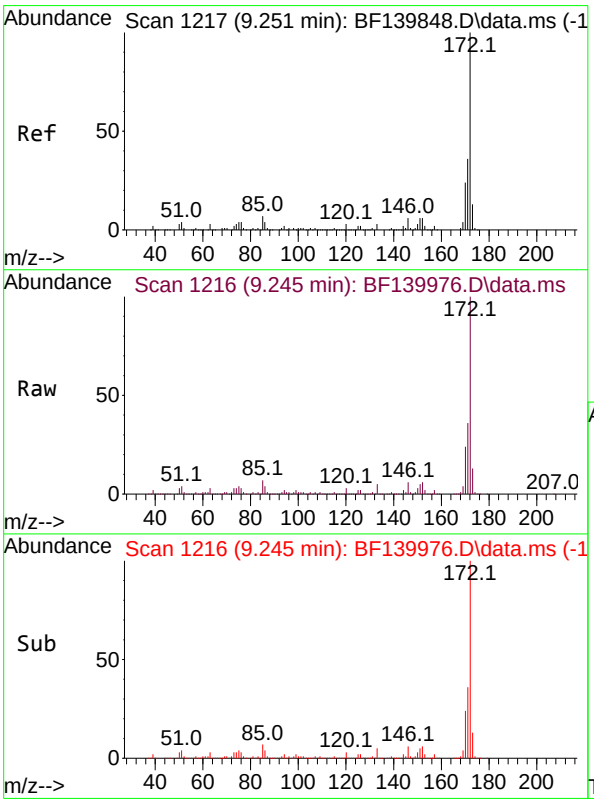
#42
2,4,6-Tribromophenol
Concen: 102.012 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:330 Resp: 251339

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.1	117.1
141	30.0	26.6	39.8

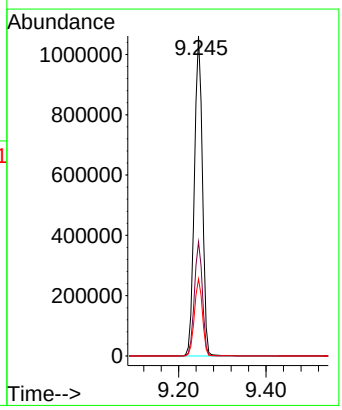


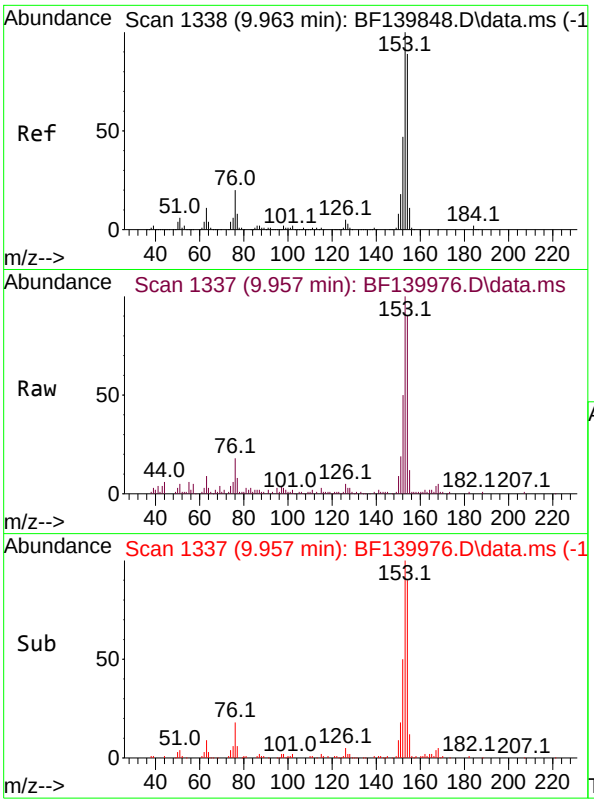


#45
2-Fluorobiphenyl
Concen: 85.625 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:172 Resp: 1364688

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.1	19.1	28.7



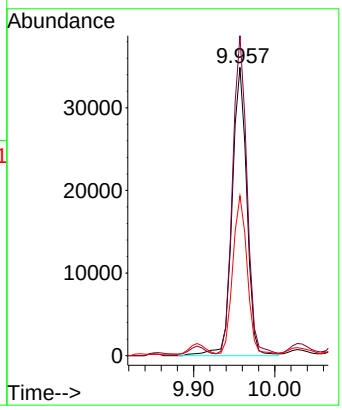


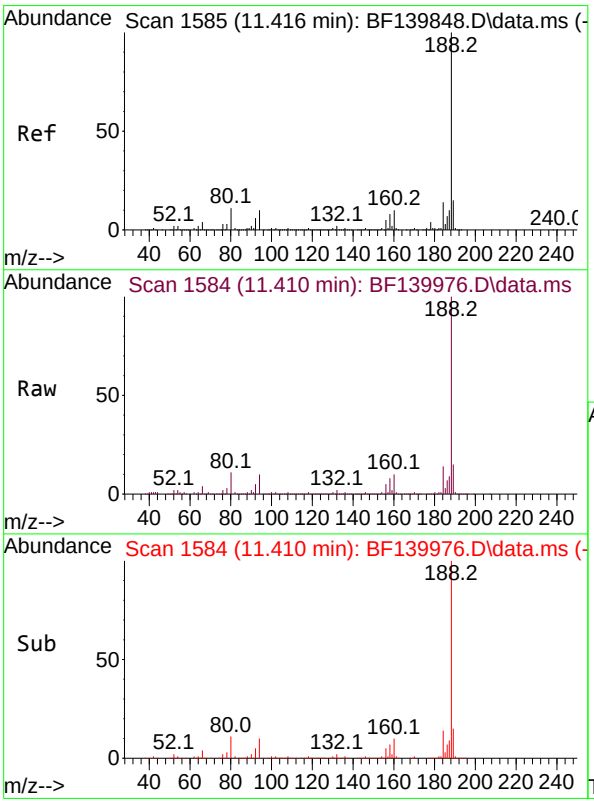
#52
Acenaphthene
Concen: 3.175 ng
RT: 9.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:154 Resp: 43848

Ion	Ratio	Lower	Upper
154	100		
153	111.0	89.8	134.6
152	55.5	42.4	63.6

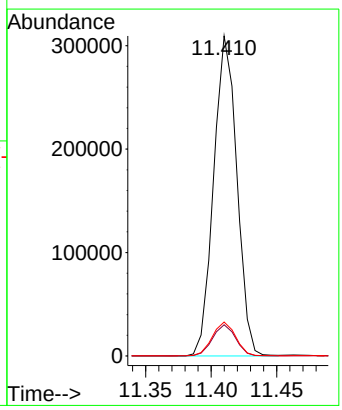


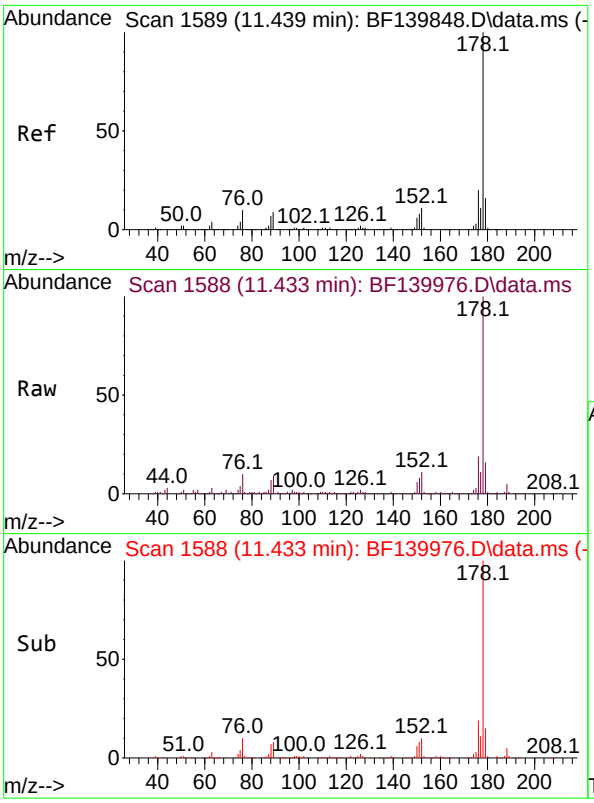


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:188 Resp: 381099

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	10.6	9.0	13.4



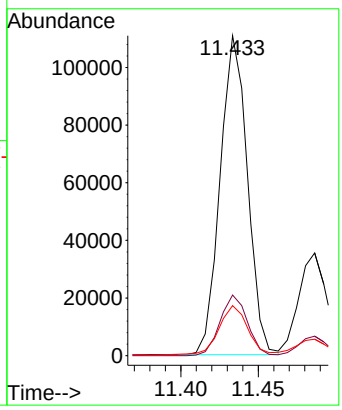


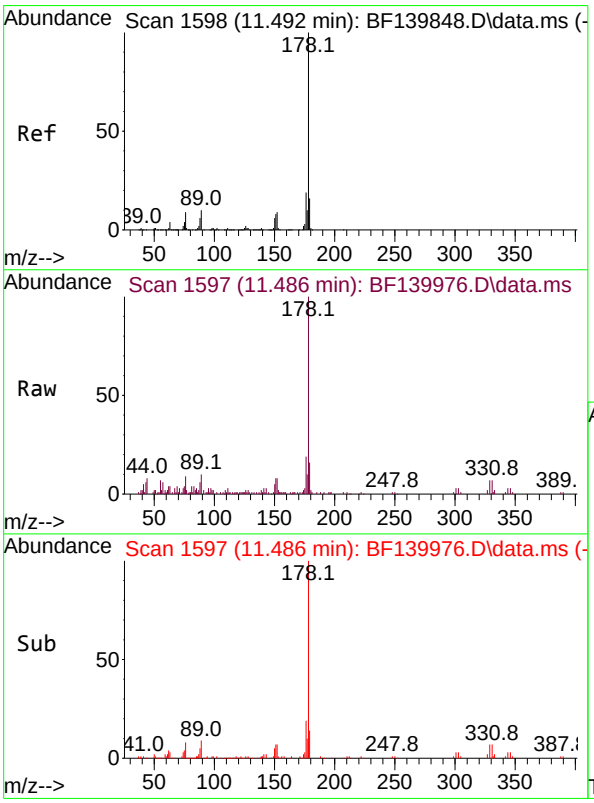
#71
Phenanthrene
Concen: 7.534 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:178 Resp: 135628

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.6
179	15.6	12.6	18.8

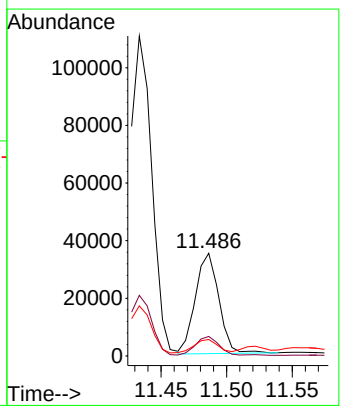


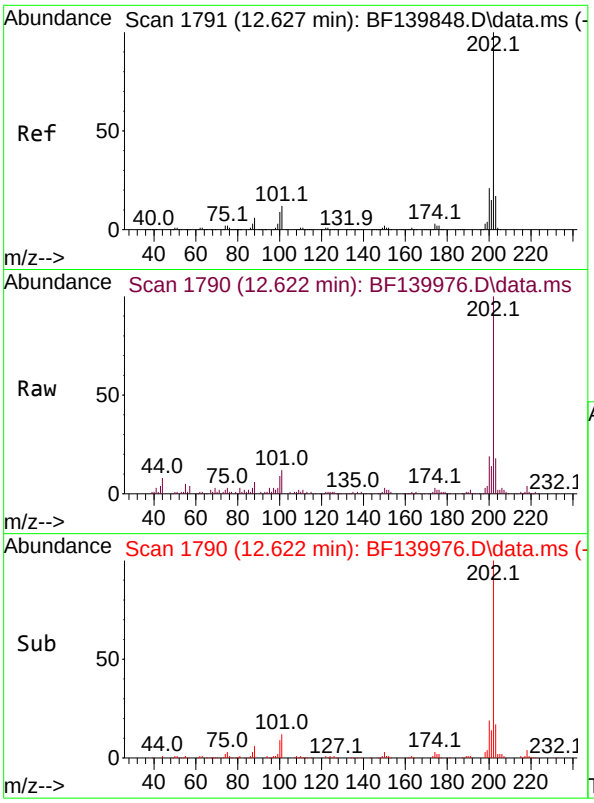


#72
Anthracene
Concen: 2.487 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:178 Resp: 43687

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	16.0	12.4	18.6



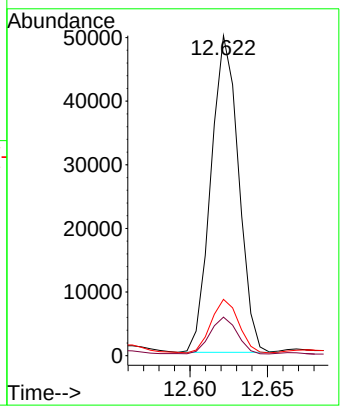


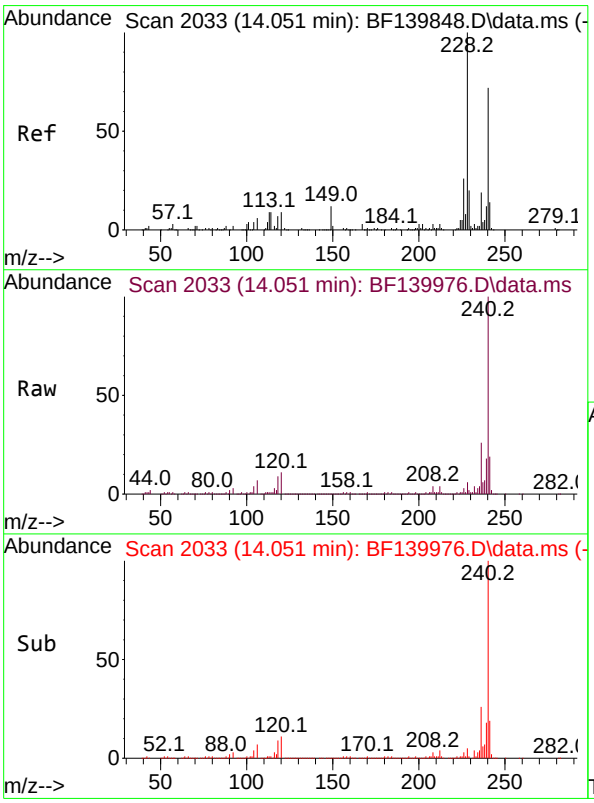
#75
Fluoranthene
Concen: 3.399 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:202 Resp: 61855

Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	31.9
203	17.6	0.0	37.5

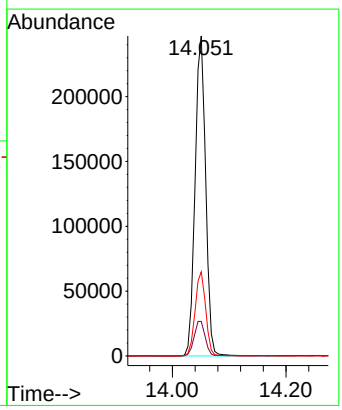


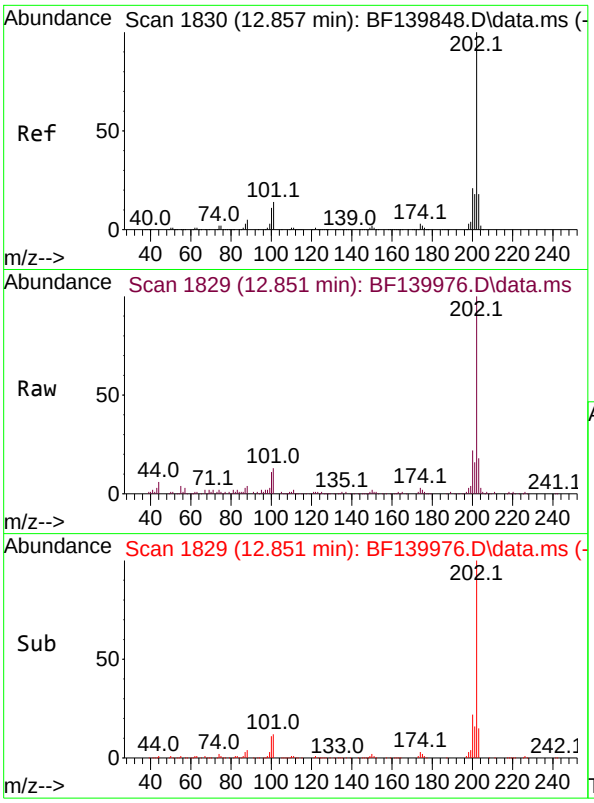


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:240 Resp: 321287

Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.4	14.2
236	26.3	20.9	31.3



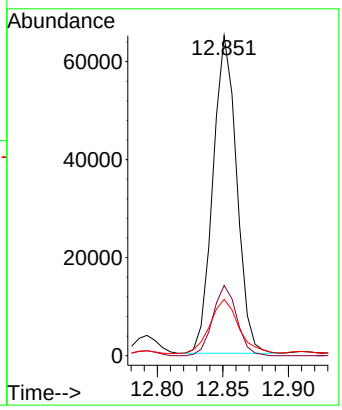


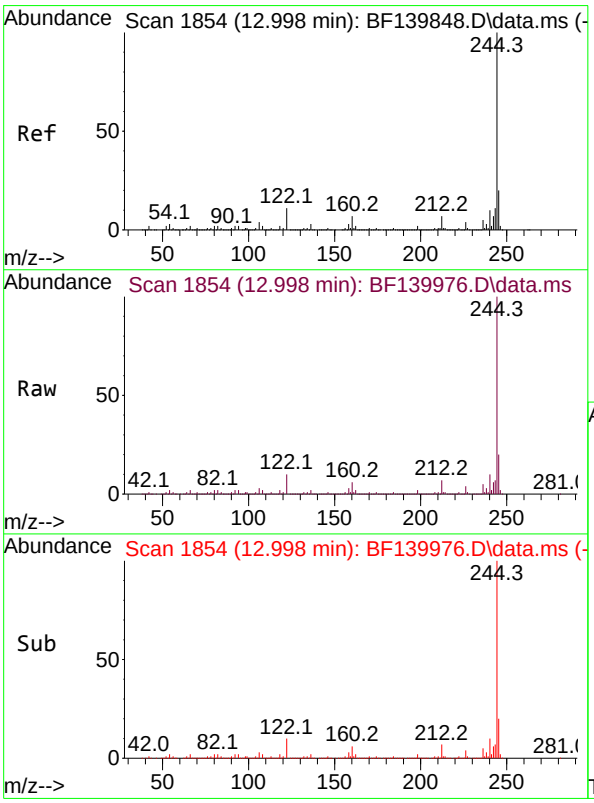
#78
Pyrene
Concen: 2.895 ng
RT: 12.851 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:202 Resp: 81427

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.2	25.8
203	17.6	14.2	21.4

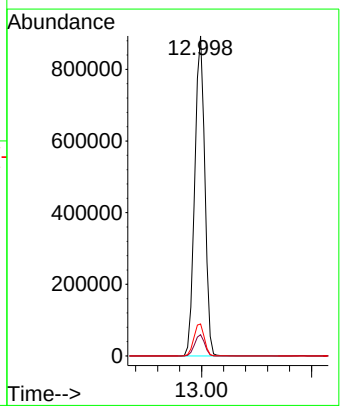


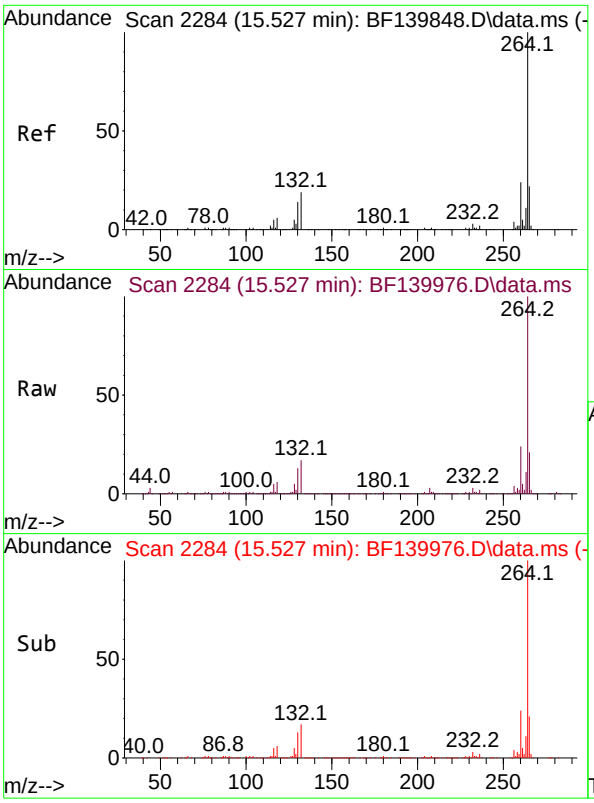


#79
Terphenyl-d14
Concen: 57.610 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Tgt Ion:244 Resp: 1135897

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.7	8.5
122	10.0	8.6	13.0



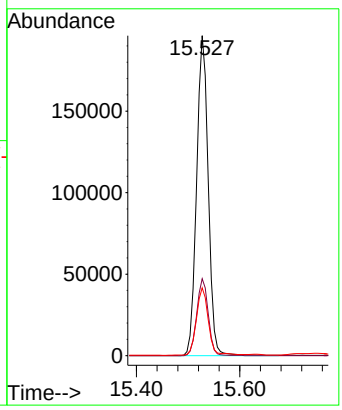


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF139976.D
Acq: 23 Oct 2024 20:51

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Tgt Ion:264 Resp: 306800

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.2	17.4	26.0



Sample Results: **BF139976.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139976.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.216	10	21	28	rVB	2431762	4065405	100.00%	11.478%
2	5.122	506	515	528	rVB	173047	278004	6.84%	0.785%
3	5.510	574	581	586	rBV	2764132	3777013	92.91%	10.664%
4	6.510	743	751	756	rBV	2540938	3732051	91.80%	10.537%
5	6.887	810	815	821	rVB	695541	890804	21.91%	2.515%
6	7.445	901	910	915	rBV	1767329	2475355	60.89%	6.989%
7	7.698	939	953	961	rVB2	69390	113349	2.79%	0.320%
8	8.169	1020	1033	1041	rBV	905543	1323958	32.57%	3.738%
9	8.381	1064	1069	1074	rBV3	35403	50789	1.25%	0.143%
10	8.757	1129	1133	1137	rBV	60558	75631	1.86%	0.214%
11	8.881	1150	1154	1158	rVB	102811	124666	3.07%	0.352%
12	8.981	1166	1171	1178	rBV	94201	128383	3.16%	0.362%
13	9.245	1210	1216	1221	rBV	3092076	3934185	96.77%	11.107%
14	9.322	1225	1229	1238	rBV2	73189	122086	3.00%	0.345%
15	9.439	1245	1249	1255	rVB	57361	80064	1.97%	0.226%
16	9.510	1255	1261	1265	rBV	51493	84760	2.08%	0.239%
17	9.581	1268	1273	1276	rVV	92135	141082	3.47%	0.398%
18	9.645	1280	1284	1290	rVV2	44412	85400	2.10%	0.241%
19	9.698	1290	1293	1299	rVB2	47020	66063	1.63%	0.187%
20	9.786	1304	1308	1312	rVB	35749	49364	1.21%	0.139%
21	9.851	1313	1319	1324	rBV	75758	113694	2.80%	0.321%
22	9.922	1324	1331	1335	rBV	862177	1170242	28.79%	3.304%
23	9.957	1335	1337	1341	rVB	146519	151563	3.73%	0.428%
24	10.122	1361	1365	1369	rVB3	35872	49949	1.23%	0.141%
25	10.169	1370	1373	1379	rVB3	29810	44269	1.09%	0.125%
26	10.351	1397	1404	1408	rBV2	74149	121830	3.00%	0.344%
27	10.469	1421	1424	1430	rVB	64682	87044	2.14%	0.246%
28	10.575	1437	1442	1447	rVV2	54490	102080	2.51%	0.288%
29	10.639	1448	1453	1459	rVV	721046	924341	22.74%	2.610%
30	10.710	1459	1465	1477	rVV	1460209	1920274	47.23%	5.421%
31	10.833	1481	1486	1493	rVB2	95483	164008	4.03%	0.463%
32	10.945	1501	1505	1510	rBV	112652	138645	3.41%	0.391%
33	11.016	1513	1517	1520	rVV2	36296	53467	1.32%	0.151%
34	11.275	1557	1561	1564	rBV	47692	69222	1.70%	0.195%
35	11.304	1564	1566	1573	rVB2	60732	78127	1.92%	0.221%
36	11.410	1579	1584	1592	rBV2	743655	1255857	30.89%	3.546%

Sample Results: **BF139976.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.480	1592	1596	1600	rVB	100303	136514	3.36%	0.385%
38	11.704	1630	1634	1638	rBV2	42617	50748	1.25%	0.143%
39	11.933	1665	1673	1679	rBV3	283289	491754	12.10%	1.388%
40	12.022	1685	1688	1697	rVB	100512	208224	5.12%	0.588%
41	12.110	1699	1703	1707	rBV2	37099	50042	1.23%	0.141%
42	12.204	1716	1719	1726	rVB2	30332	46614	1.15%	0.132%
43	12.498	1765	1769	1775	rVB4	74975	144103	3.54%	0.407%
44	12.622	1786	1790	1794	rBV	118592	154092	3.79%	0.435%
45	12.669	1794	1798	1803	rVV	92619	129157	3.18%	0.365%
46	12.716	1803	1806	1814	rVB	72759	106036	2.61%	0.299%
47	12.851	1824	1829	1836	rBV	144684	216119	5.32%	0.610%
48	12.998	1848	1854	1862	rVB	2286489	2956436	72.72%	8.347%
49	13.174	1878	1884	1889	rVB	45346	85110	2.09%	0.240%
50	13.245	1889	1896	1899	rBV2	37871	78449	1.93%	0.221%
51	13.280	1900	1902	1910	rVB	27474	42662	1.05%	0.120%
52	13.569	1948	1951	1960	rVB3	22609	43233	1.06%	0.122%
53	13.904	2003	2008	2022	rVB	94163	205404	5.05%	0.580%
54	14.051	2027	2033	2044	rVB	722537	1105543	27.19%	3.121%
55	14.521	2109	2113	2117	rBV3	33965	50114	1.23%	0.141%
56	15.098	2206	2211	2219	rVB	32885	73371	1.80%	0.207%
57	15.463	2268	2273	2278	rVV	37536	57651	1.42%	0.163%
58	15.527	2278	2284	2298	rVB	519712	846010	20.81%	2.389%
59	16.463	2437	2443	2449	rBV2	51720	99288	2.44%	0.280%

Sum of corrected areas: 35419698

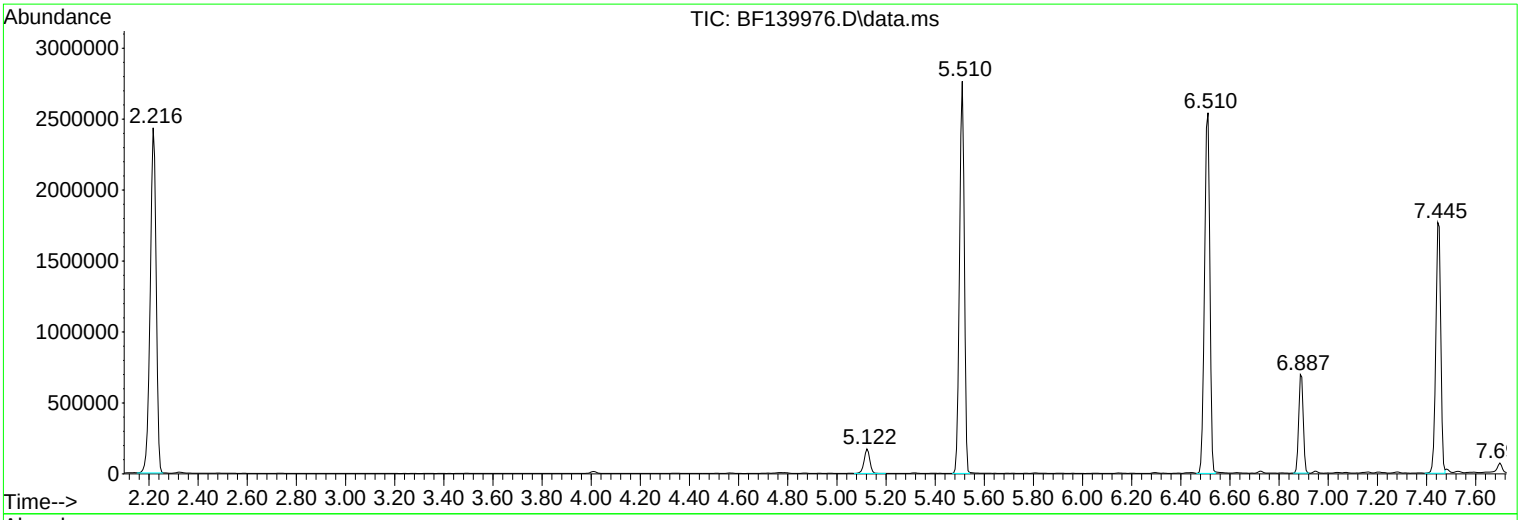
Sample Results: **BF139976.D**

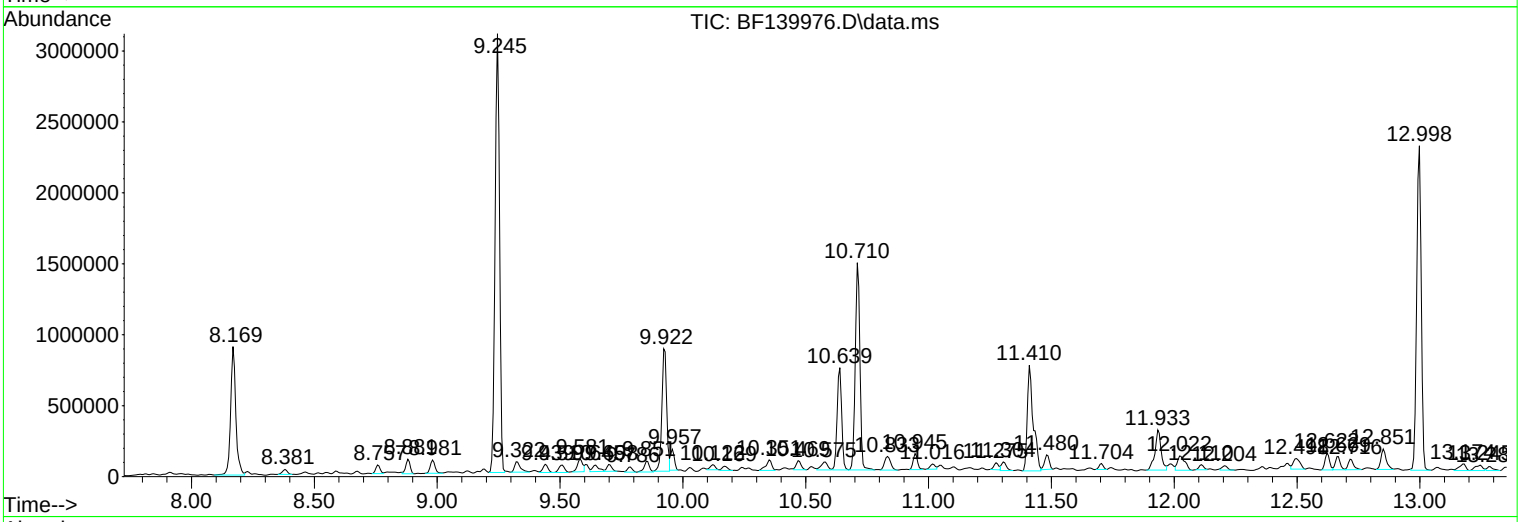
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

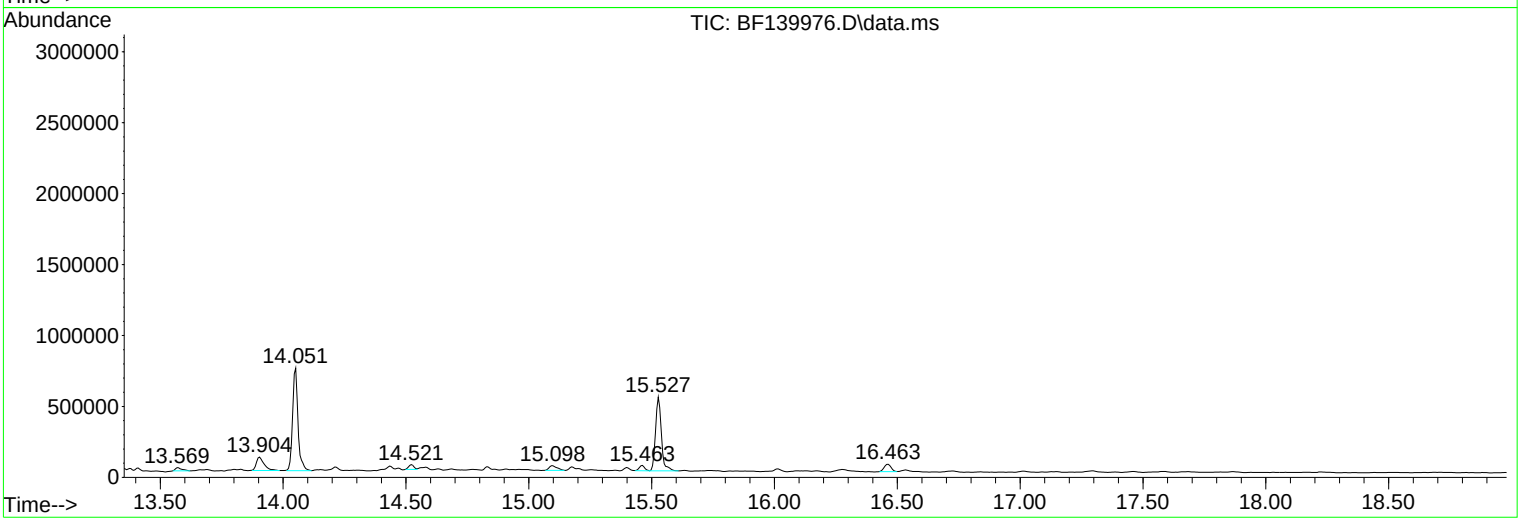
Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

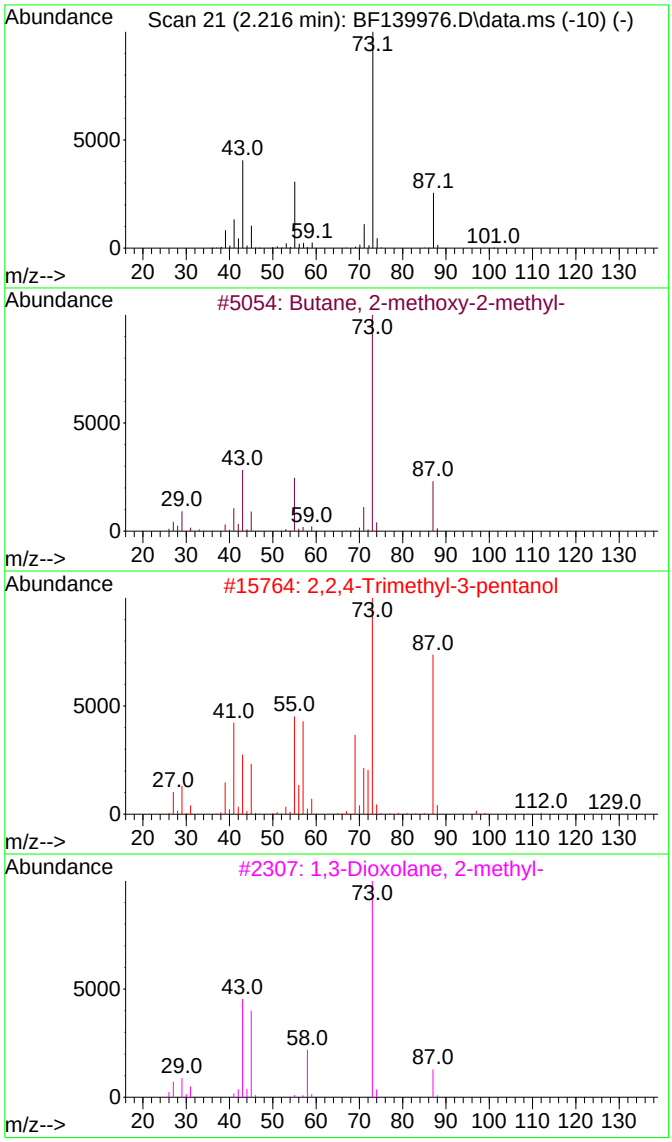
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

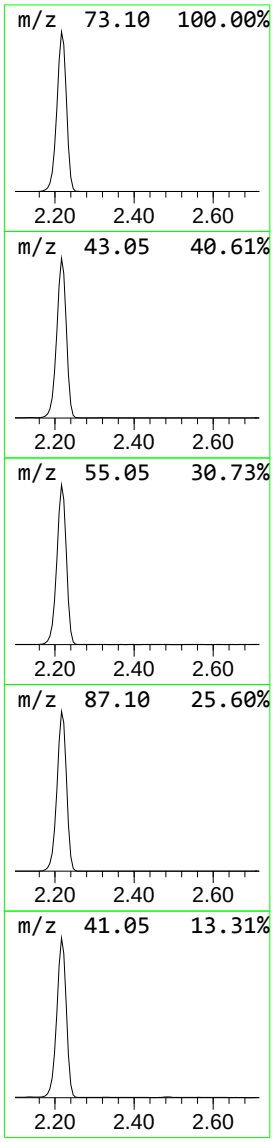
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.216	91.28 ng	4065410	1,4-Dichlorobenzene-d4	6.893

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Sample Results: **BF139976.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

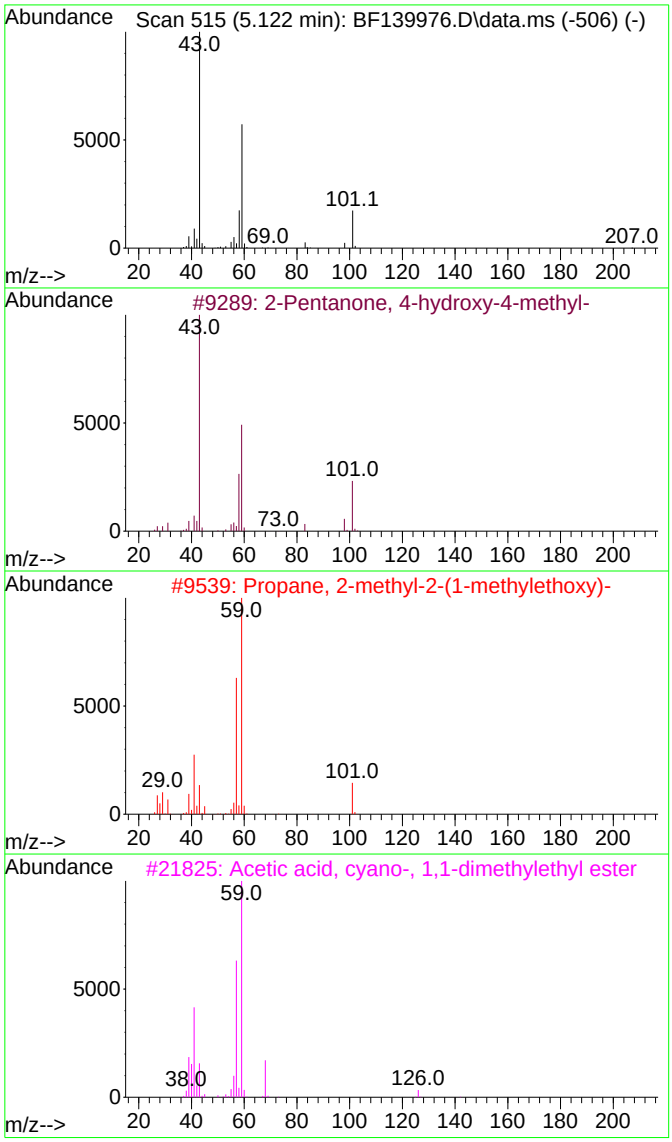
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

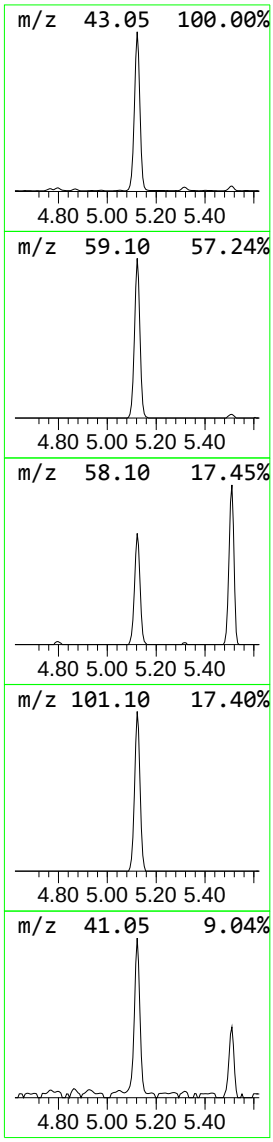
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	6.24 ng	278004	1,4-Dichlorobenzene-d4	6.893

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	42
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28





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

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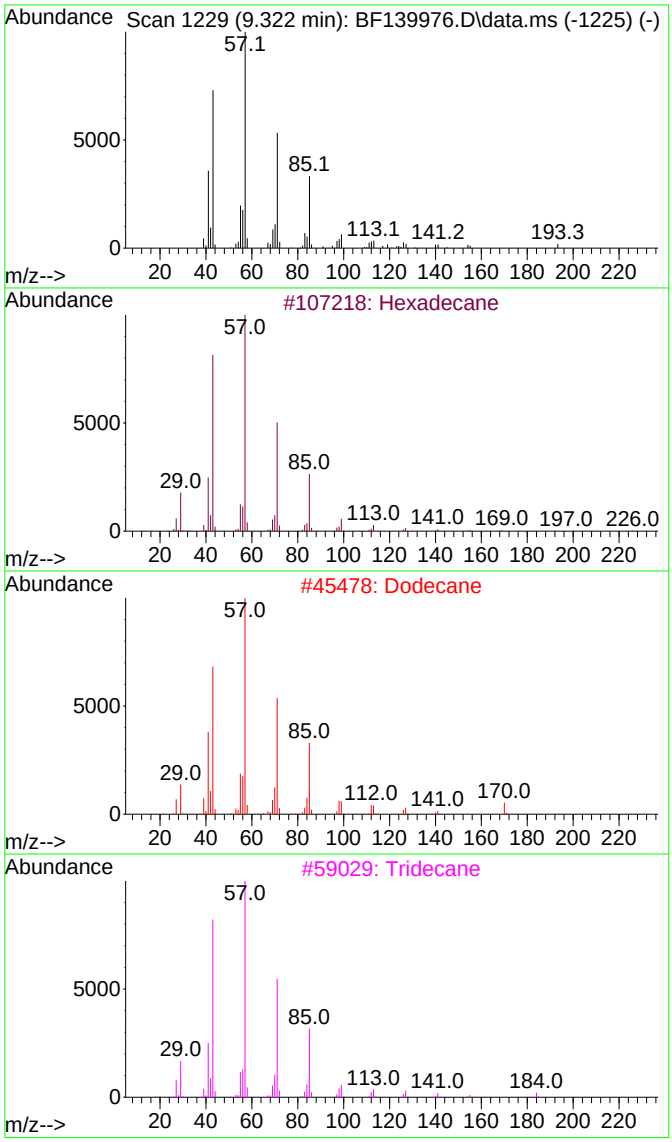
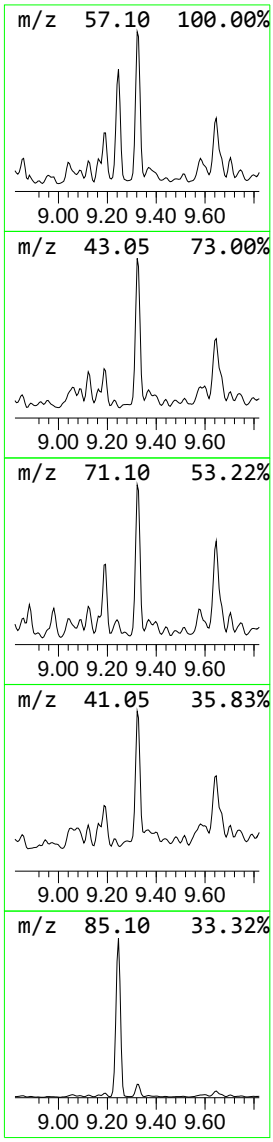
Peak Number 3 Hexadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.322	2.09 ng	122086	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Dodecane	170	C12H26	000112-40-3	90
3	Tridecane	184	C13H28	000629-50-5	86
4	Tetradecane	198	C14H30	000629-59-4	86
5	Pentadecane	212	C15H32	000629-62-9	86





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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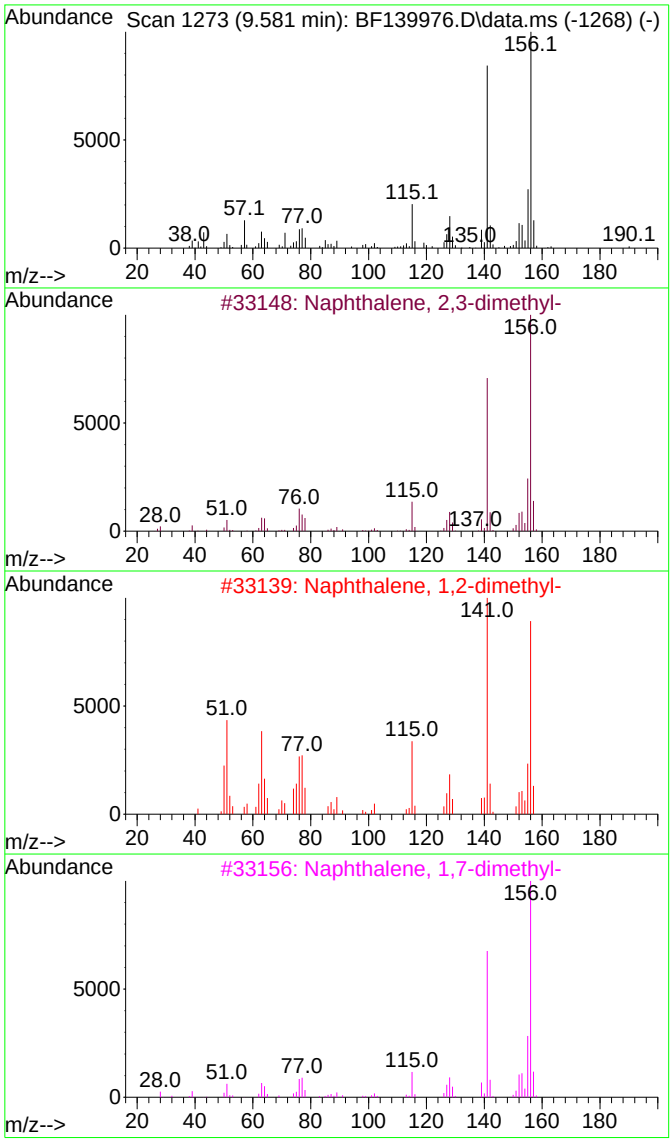
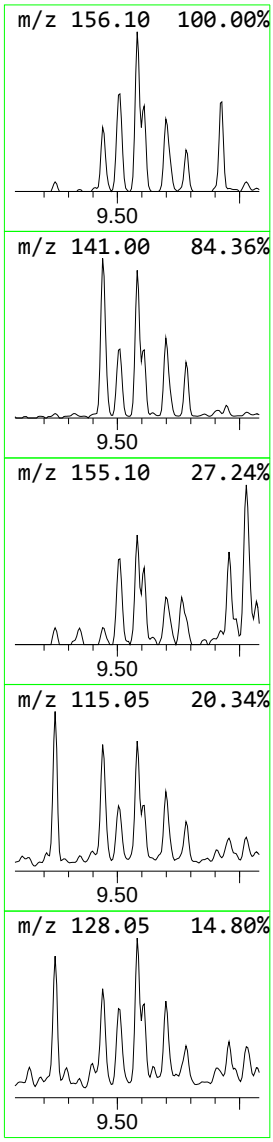
Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.581	2.41 ng	141082	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





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

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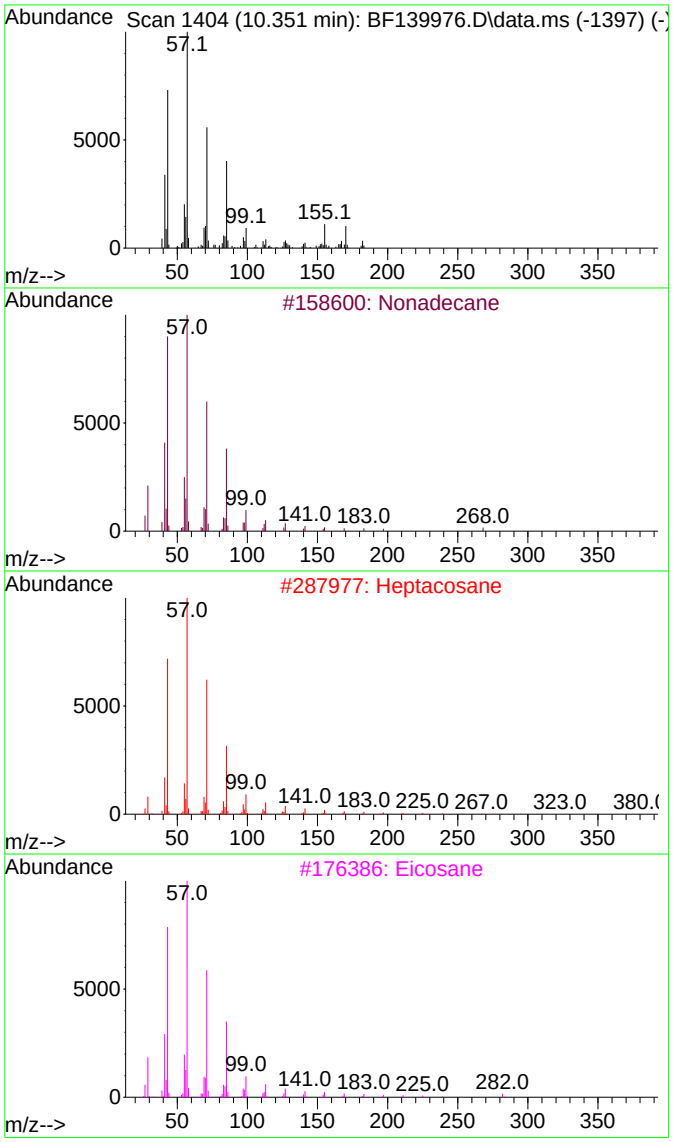
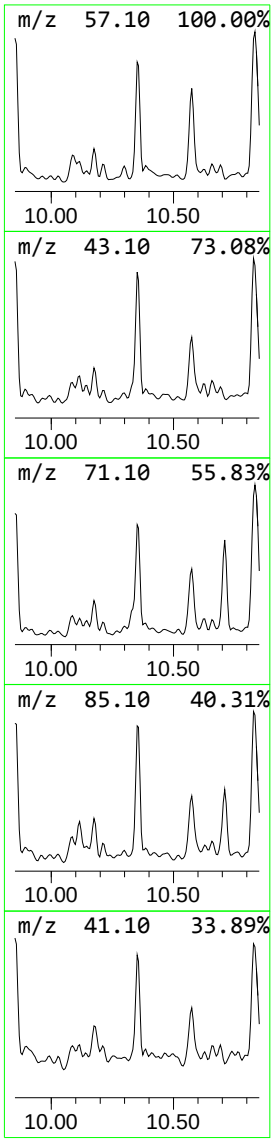
Peak Number 5 Nonadecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.351	2.08 ng	121830	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	81
2	Heptacosane	380	C27H56	000593-49-7	74
3	Eicosane	282	C20H42	000112-95-8	74
4	Heptadecane	240	C17H36	000629-78-7	74
5	Pentadecane	212	C15H32	000629-62-9	72





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

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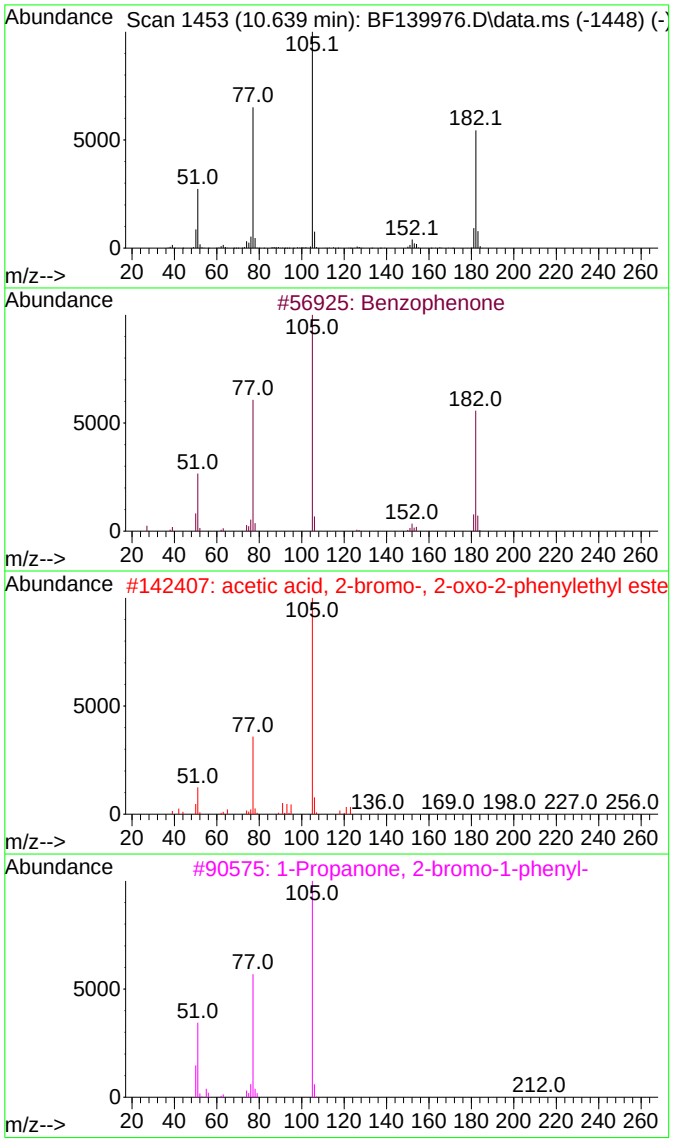
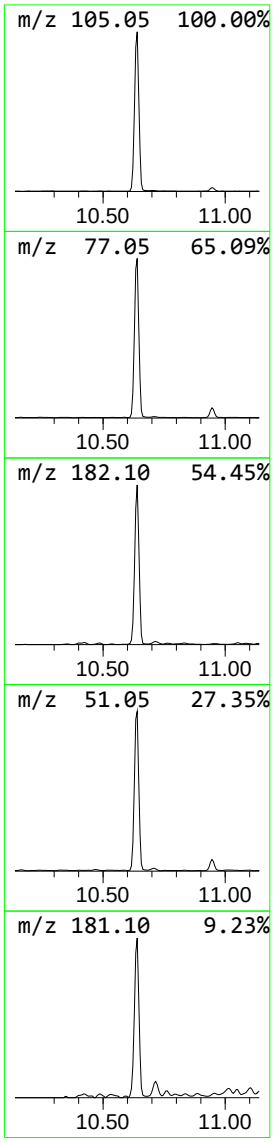
Peak Number 6 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	15.80 ng	924341	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47
5	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	47





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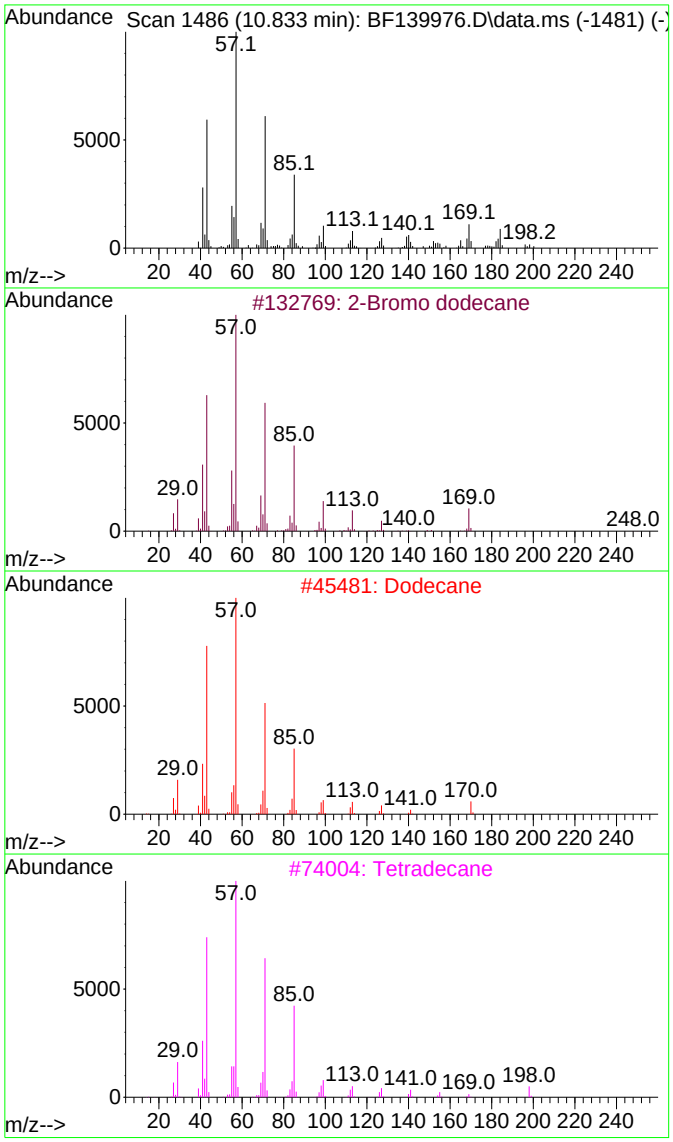
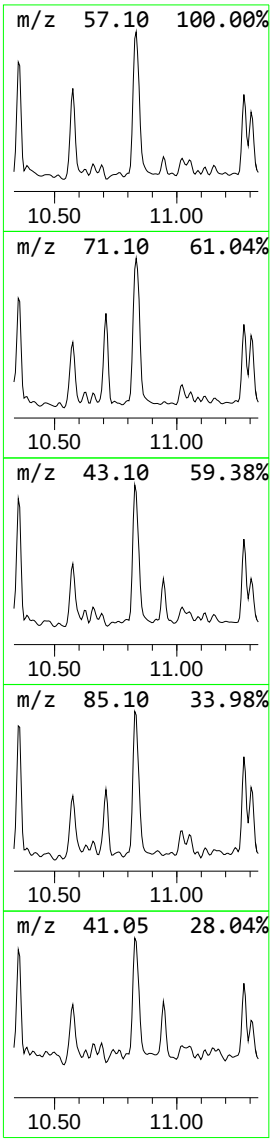
Peak Number 7 2-Bromo dodecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.834	2.61 ng	164008	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	80
2	Dodecane	170	C12H26	000112-40-3	76
3	Tetradecane	198	C14H30	000629-59-4	76
4	Heneicosane	296	C21H44	000629-94-7	74
5	Octacosane	394	C28H58	000630-02-4	74





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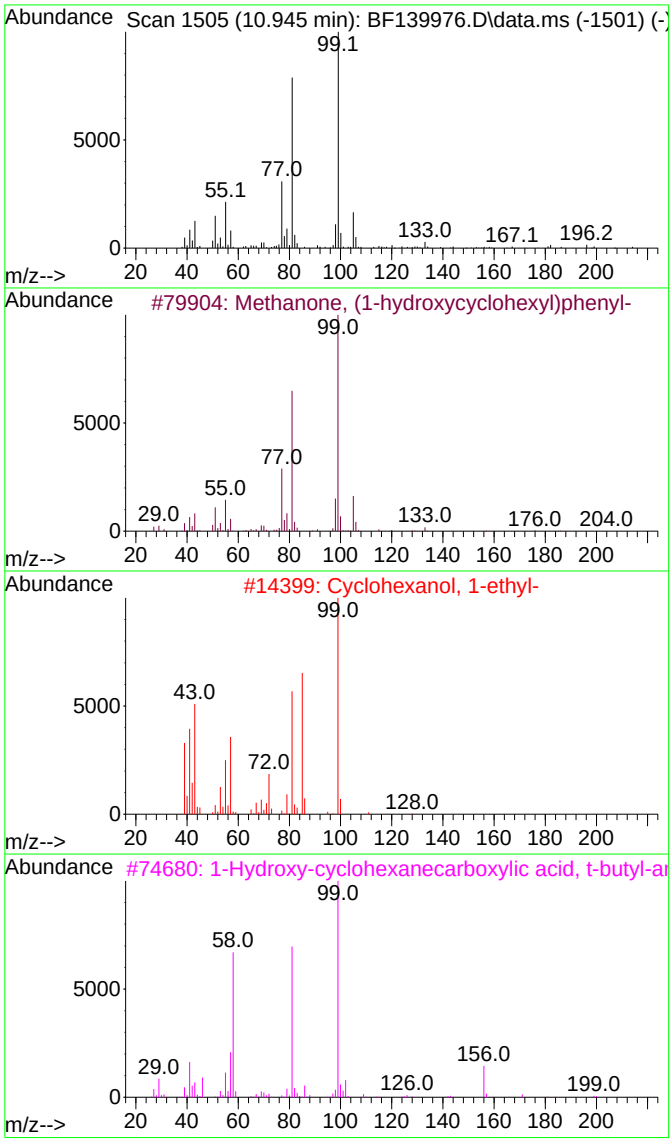
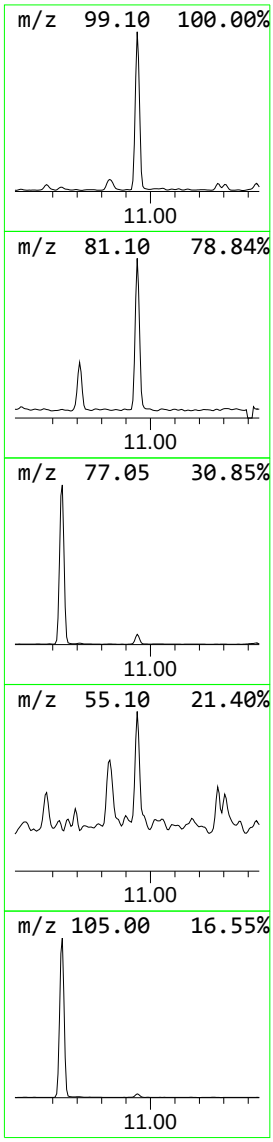
Peak Number 8 Methanone, (1-hydroxycycloh... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.945	2.21 ng	138645	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	90
2	Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	59
3	1-Hydroxy-cyclohexanecarboxylic ...	199	C11H21NO2	004933-47-5	53
4	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	47
5	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	45





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

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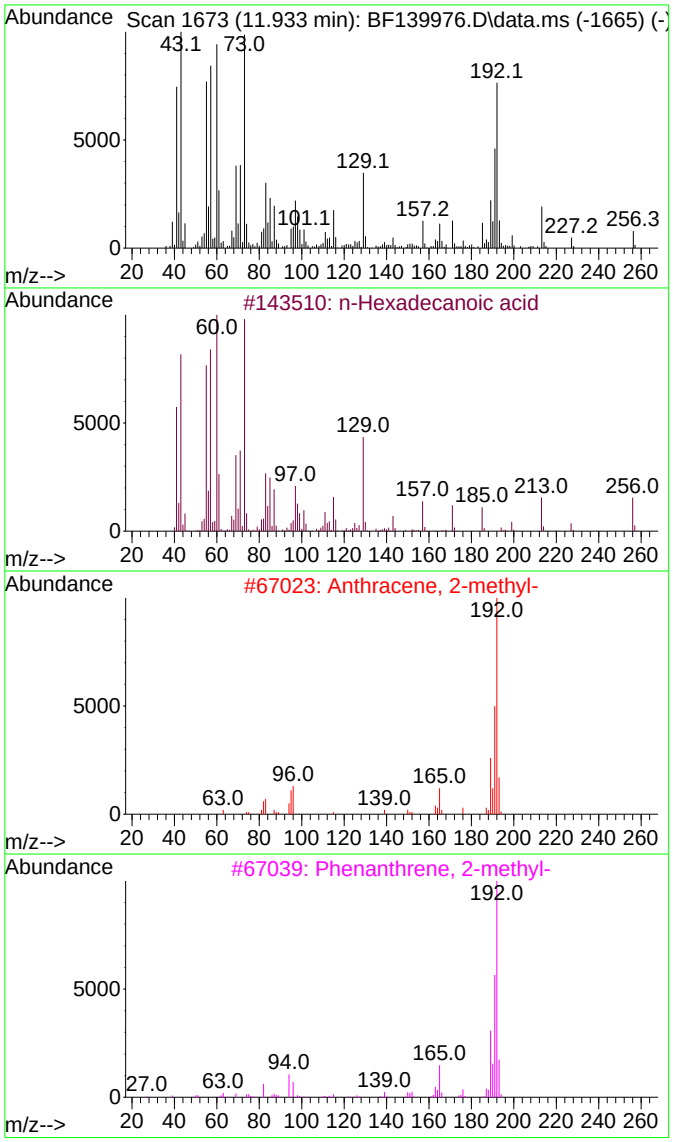
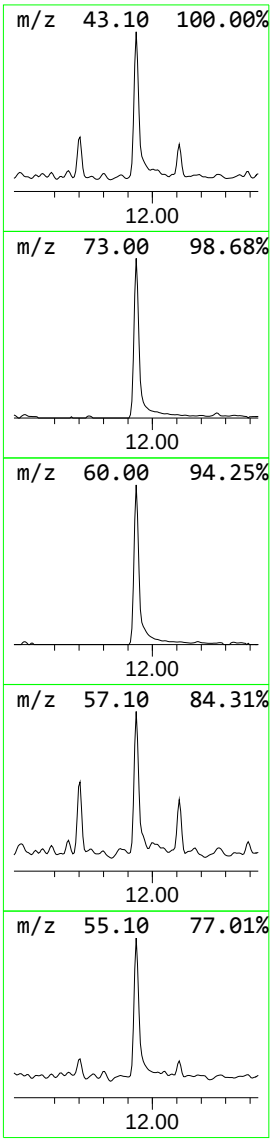
Peak Number 9 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	7.83 ng	491754	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	92
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92





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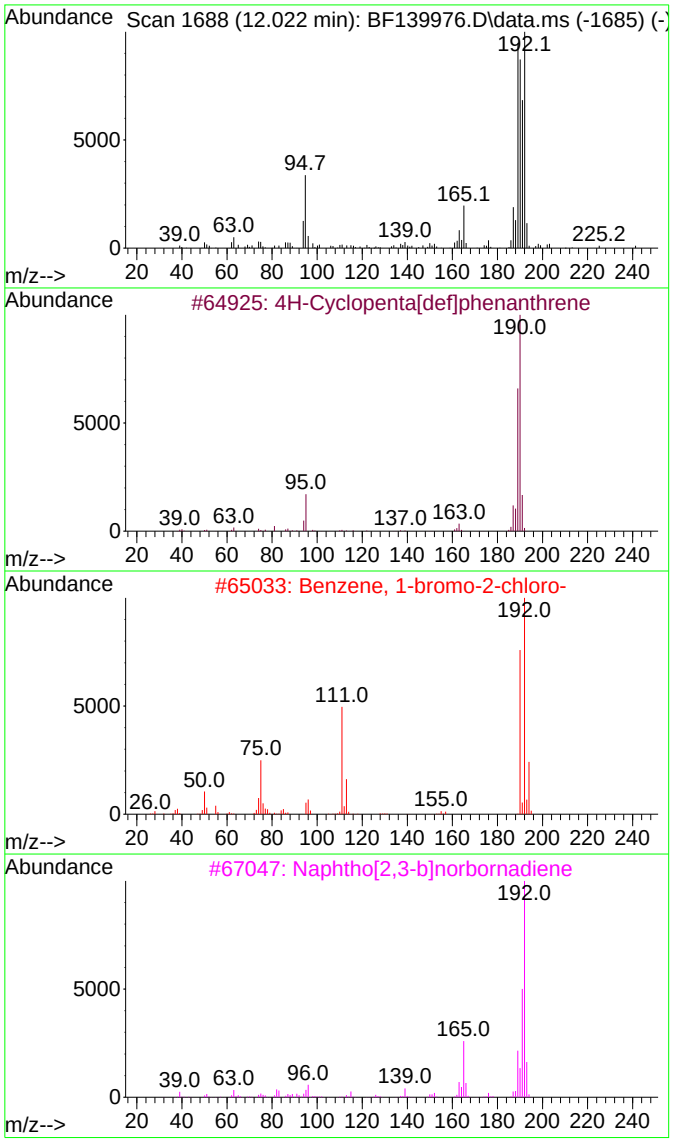
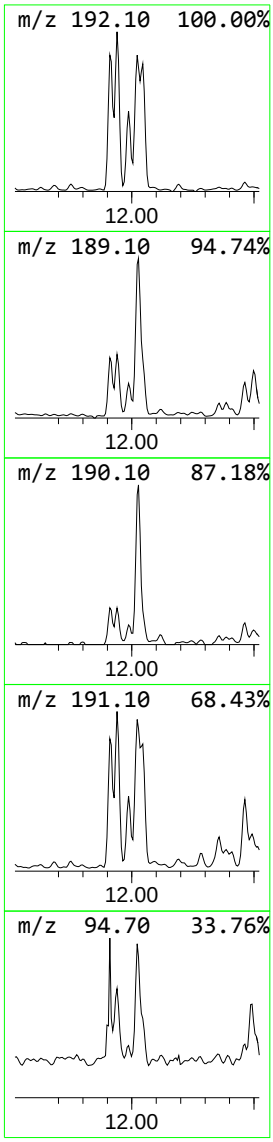
Peak Number 10 unknown12.022 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.022	3.32 ng	208224	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43
2	Benzene, 1-bromo-2-chloro-	190	C6H4BrCl	000694-80-4	43
3	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	42
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	41
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	41





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TIC Library : C:\Database\NIST20.L
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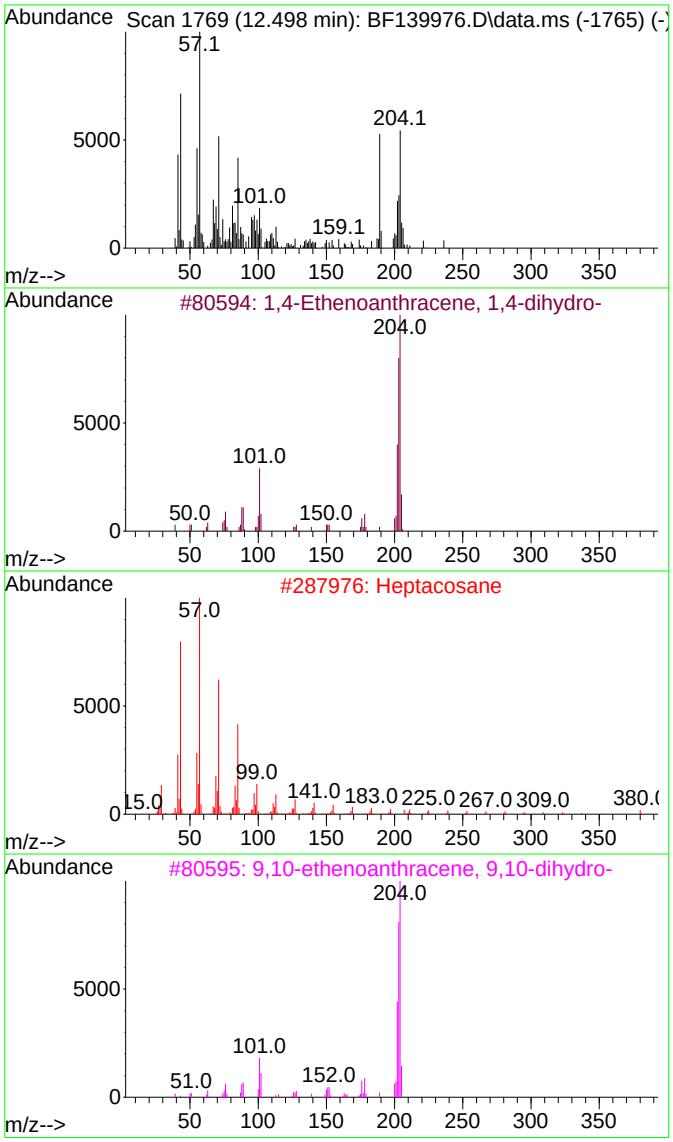
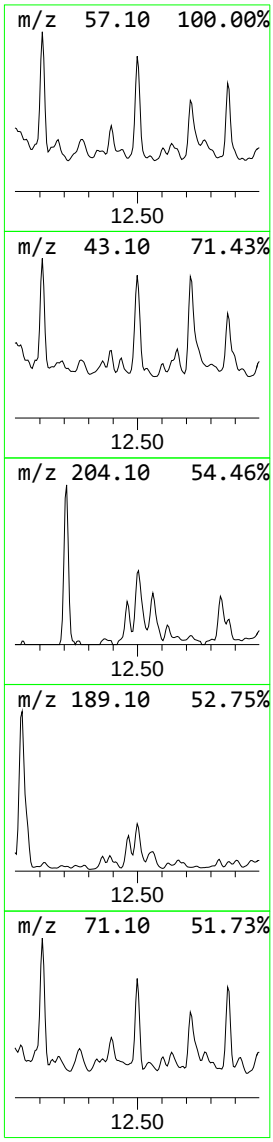
Peak Number 11 unknown12.498 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.498	2.29 ng	144103	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	41
2	Heptacosane	380	C27H56	000593-49-7	30
3	9,10-ethenoanthracene, 9,10-dihy...	204	C16H12	1000400-47-8	25
4	Pentadecane	212	C15H32	000629-62-9	25
5	Pentadecane, 7-(bromomethyl)-	304	C16H33Br	052997-43-0	25





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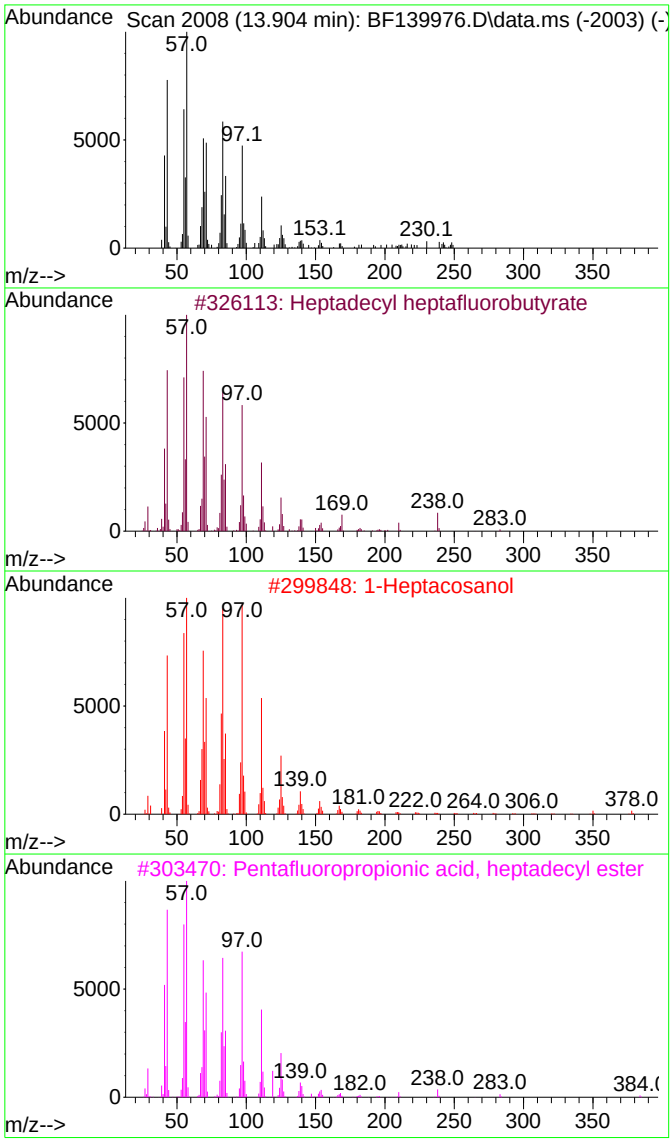
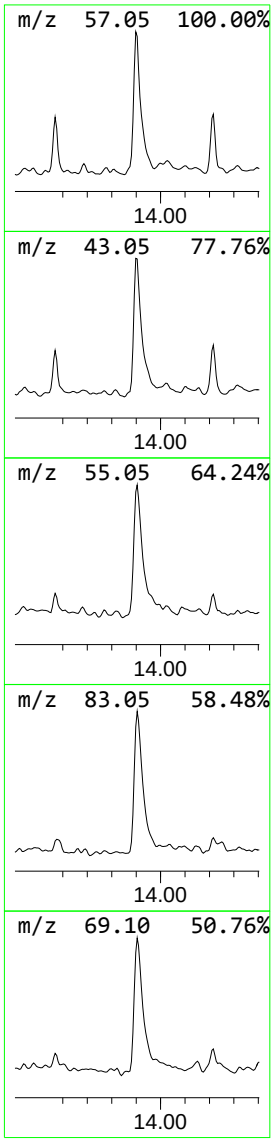
Peak Number 12 Heptadecyl heptafluorobutyrate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.72 ng	205404	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
2	1-Heptacosanol	396	C27H56O	002004-39-9	91
3	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	91
4	Butyl hexacosyl ether	438	C30H62O	1000406-41-0	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





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ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

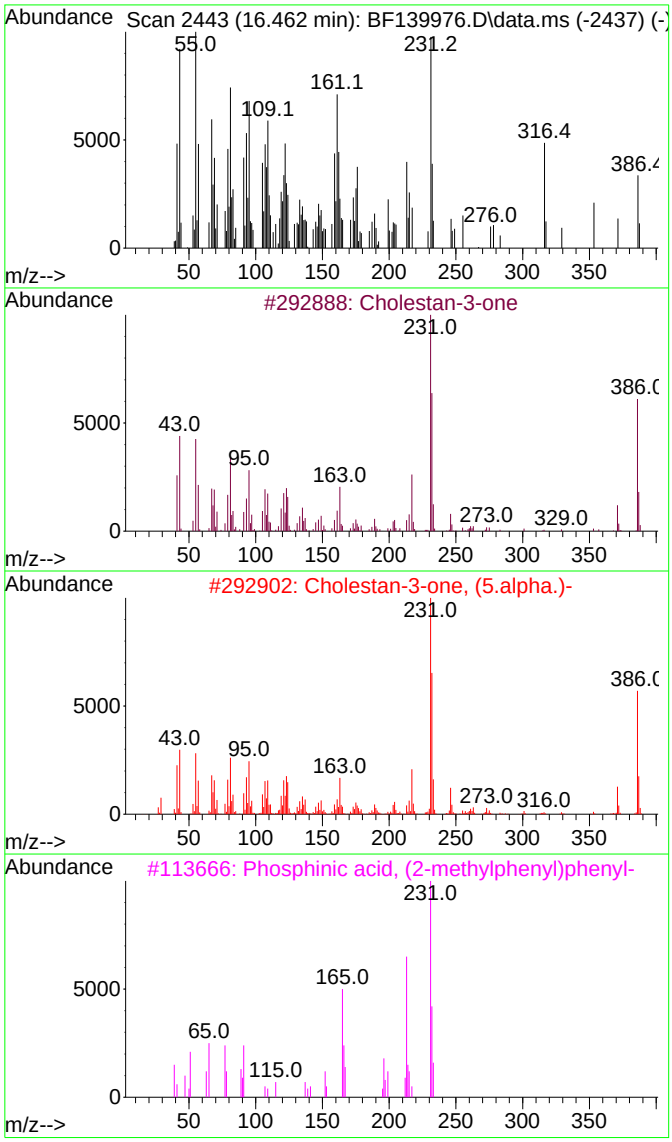
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

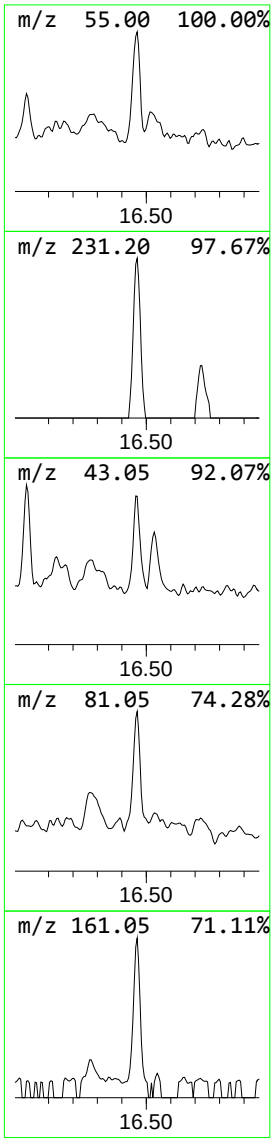
****

Peak Number 13 Cholestan-3-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.462	2.35 ng	99288	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3-one	386	C27H46O	015600-08-5	90
2	Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	56
3	Phosphinic acid, (2-methylphenyl...	232	C13H13O2P	018593-18-5	27
4	Cholestan-3-one, (5.beta.)-	386	C27H46O	000601-53-6	20
5	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	15





Sample Results: **BF139976.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139976.D
Acq On : 23 Oct 2024 20:51
Operator : RC/JU
Sample : P4397-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.216	91.3	ng	4065410	1	6.893	890804	20.0
2-Pentanone, 4-...	5.122	6.2	ng	278004	1	6.893	890804	20.0
Hexadecane	9.322	2.1	ng	122086	3	9.922	1170240	20.0
Naphthalene, 2,...	9.581	2.4	ng	141082	3	9.922	1170240	20.0
Nonadecane	10.351	2.1	ng	121830	3	9.922	1170240	20.0
Benzophenone	10.639	15.8	ng	924341	3	9.922	1170240	20.0
2-Bromo dodecane	10.834	2.6	ng	164008	4	11.410	1255860	20.0
Methanone, (1-h...	10.945	2.2	ng	138645	4	11.410	1255860	20.0
n-Hexadecanoic ...	11.933	7.8	ng	491754	4	11.410	1255860	20.0
unknown12.022	12.022	3.3	ng	208224	4	11.410	1255860	20.0
unknown12.498	12.498	2.3	ng	144103	4	11.410	1255860	20.0
Heptadecyl hept...	13.904	3.7	ng	205404	5	14.051	1105540	20.0
Cholestan-3-one	16.462	2.4	ng	99288	6	15.527	846010	20.0

Raw Data: **BF139975.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.20	U	4.20	10.4	ug/L
108-95-2	Phenol	0.97	U	0.97	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.20	ug/L
95-57-8	2-Chlorophenol	0.74	U	0.74	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.20	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.60	U	1.60	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.92	U	0.92	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	0.88	U	0.88	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	5.20	UQ	5.20	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	0.93	U	0.93	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.20	ug/L
92-52-4	1,1-Biphenyl	0.95	U	0.95	5.20	ug/L
91-58-7	2-Chloronaphthalene	1.00	U	1.00	5.20	ug/L
88-74-4	2-Nitroaniline	1.50	U	1.50	5.20	ug/L
131-11-3	Dimethylphthalate	0.97	U	0.97	5.20	ug/L

Raw Data: **BF139975.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
99-09-2	3-Nitroaniline	1.40	UQ	1.40	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.70	U	6.70	10.4	ug/L
100-02-7	4-Nitrophenol	2.10	U	2.10	10.4	ug/L
132-64-9	Dibenzofuran	0.97	U	0.97	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.20	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.20	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.20	UQ	3.20	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	0.93	U	0.93	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.99	U	0.99	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.4	ug/L
85-01-8	Phenanthrene	0.93	U	0.93	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.20	U	2.20	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	UQ	1.30	10.4	ug/L
56-55-3	Benzo(a)anthracene	0.98	U	0.98	5.20	ug/L
218-01-9	Chrysene	0.90	U	0.90	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L

Raw Data: **BF139975.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.82	U	0.82	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	63.8		15 (10) - 110 (139)	43%	SPK: 150
13127-88-3	Phenol-d6	44.2		15 (10) - 110 (134)	29%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		30 (49) - 130 (133)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.7		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		15 (44) - 110 (137)	75%	SPK: 150
1718-51-0	Terphenyl-d14	67.3		30 (48) - 130 (125)	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.887			
1146-65-2	Naphthalene-d8	542000	8.169			
15067-26-2	Acenaphthene-d10	276000	9.922			
1517-22-2	Phenanthrene-d10	397000	11.41			
1719-03-5	Chrysene-d12	341000	14.051			
1520-96-3	Perylene-d12	312000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	220	JB		2.20	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.60	AB		5.11	ug/L
000119-61-9	Benzophenone	2.60	J		10.6	ug/L
000057-10-3	n-Hexadecanoic acid	2.10	J		11.9	ug/L

Raw Data: **BF139975.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139975.D	1	10/15/24 08:40	10/23/24 20:22	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **BF139975.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Time: Oct 24 01:12:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

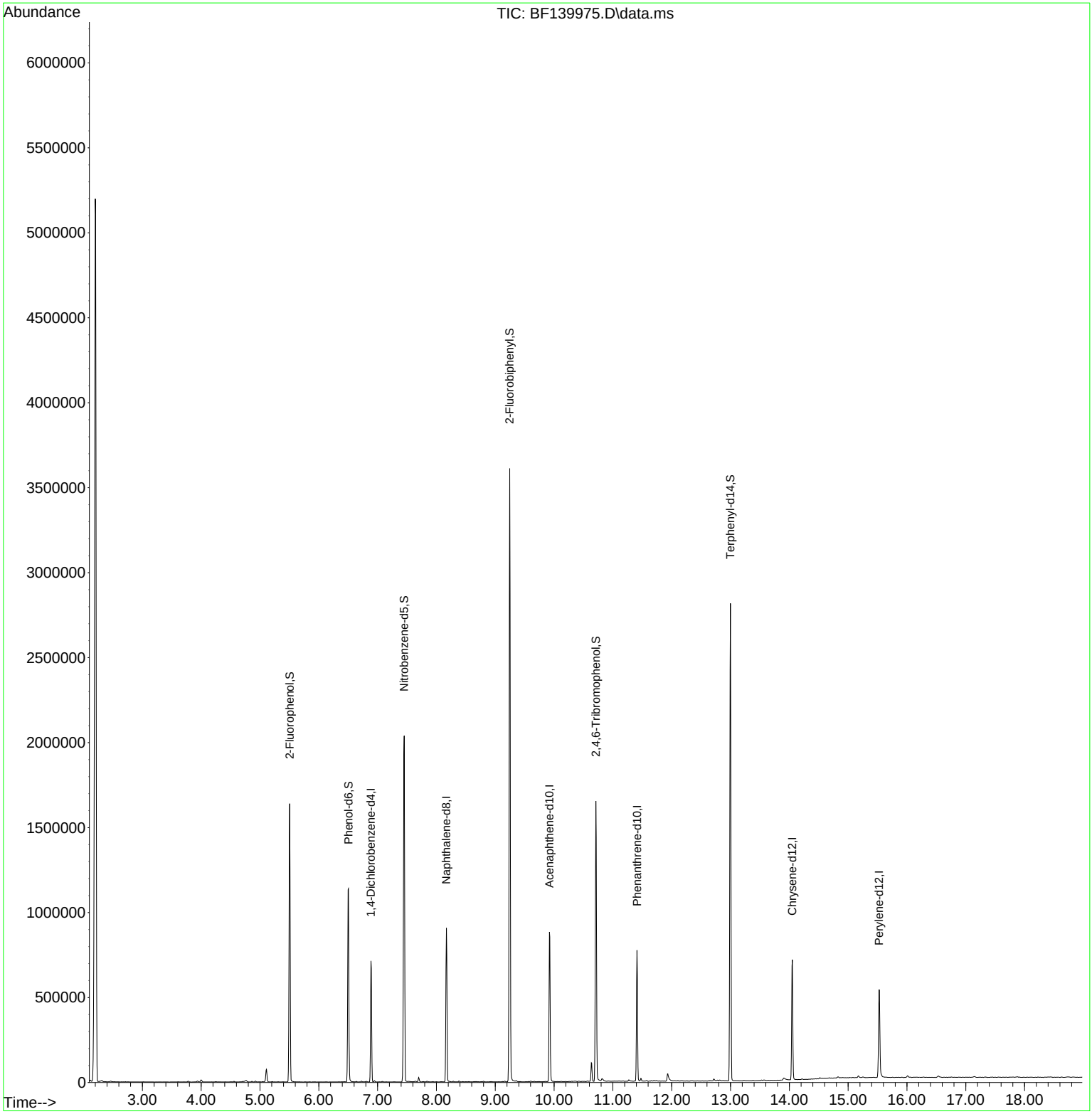
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	146831	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	541523	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	276437	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	397037	20.000	ng	0.00
76) Chrysene-d12	14.051	240	340671	20.000	ng	0.00
86) Perylene-d12	15.527	264	311683	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	598372	63.797	ng	0.00
7) Phenol-d6	6.504	99	536909	44.199	ng	0.00
23) Nitrobenzene-d5	7.451	82	946599	96.882	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	290864	112.489	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1600028	95.659	ng	0.00
79) Terphenyl-d14	12.998	244	1406116	67.257	ng	0.00
Target Compounds						Qvalue

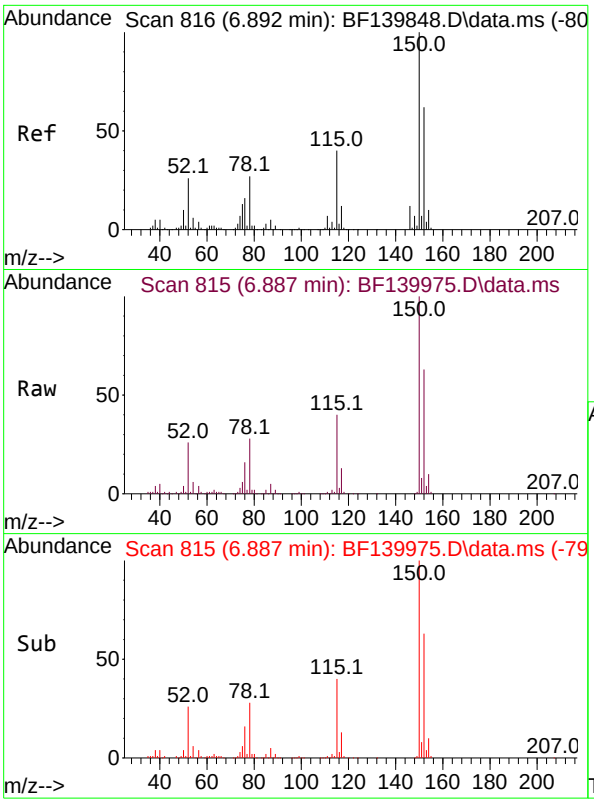
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Time: Oct 24 01:12:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



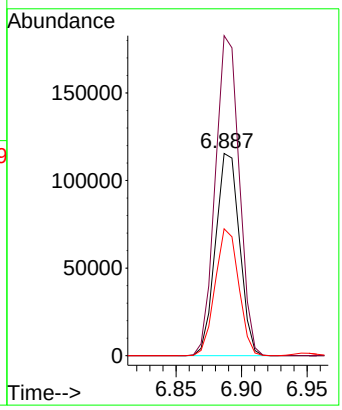


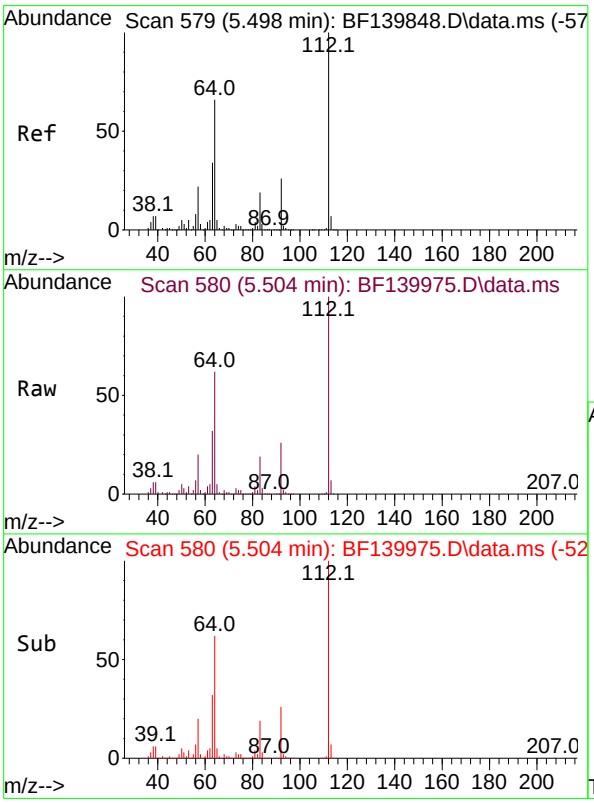
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:152 Resp: 146831

Ion	Ratio	Lower	Upper
152	100		
150	158.2	130.2	195.2
115	62.8	51.4	77.2

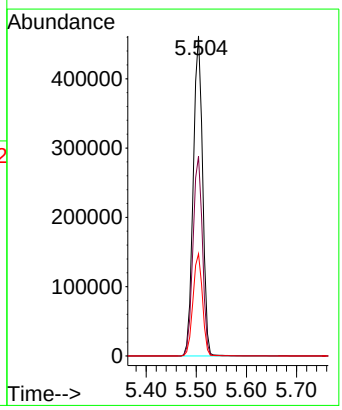


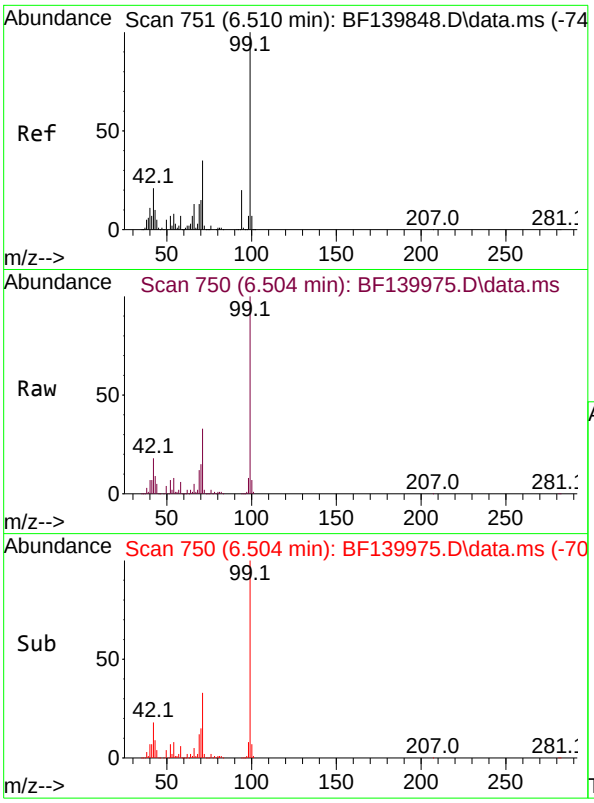


#5
2-Fluorophenol
Concen: 63.797 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:112 Resp: 598372

Ion	Ratio	Lower	Upper
112	100		
64	62.4	53.0	79.6
63	31.9	27.0	40.4



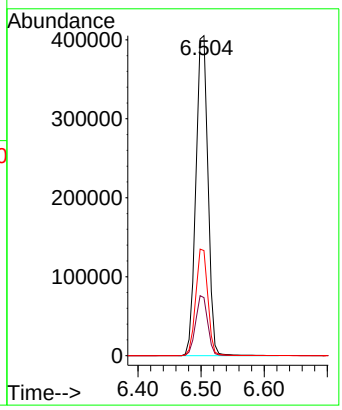


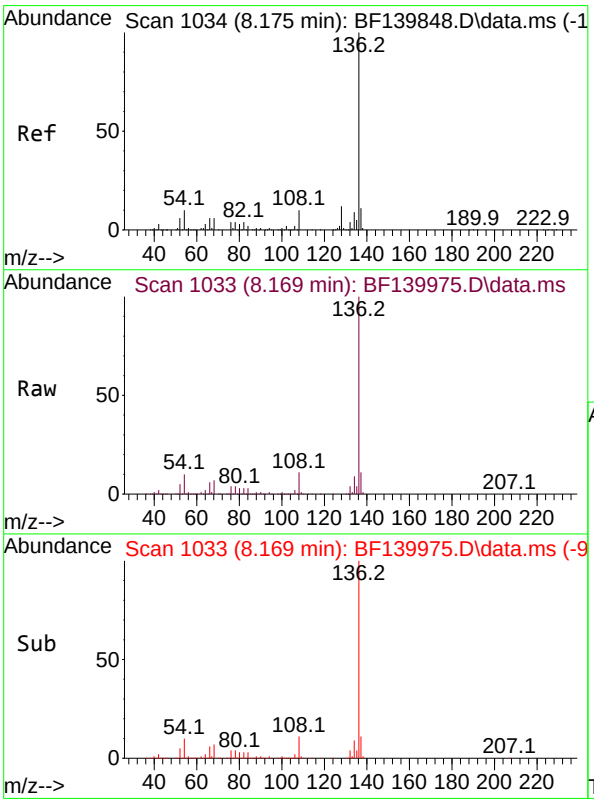
#7
Phenol-d6
Concen: 44.199 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion: 99 Resp: 536909

Ion	Ratio	Lower	Upper
99	100		
42	18.1	16.7	25.1
71	32.8	27.7	41.5

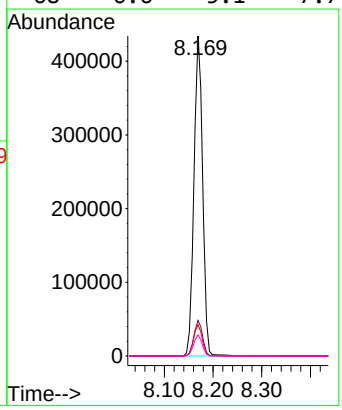


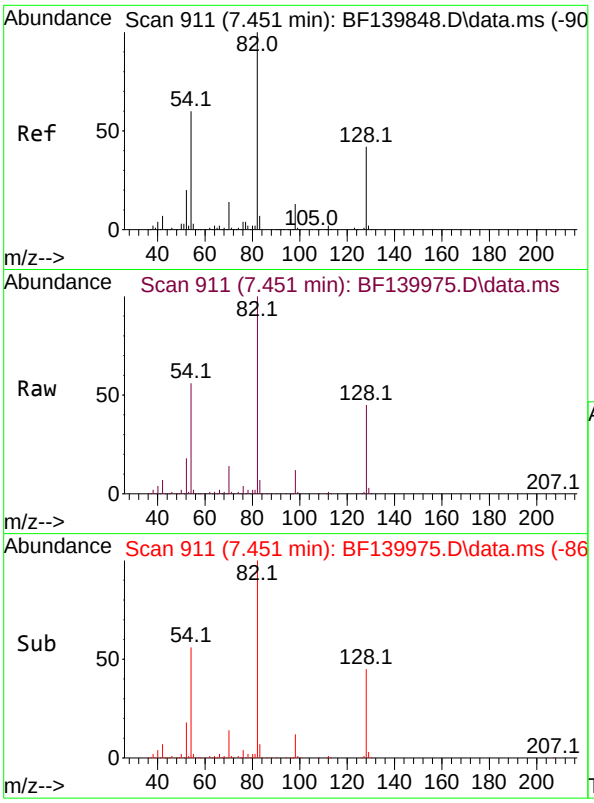


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:136 Resp: 541523

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	9.8	8.4	12.6
68	6.6	5.1	7.7



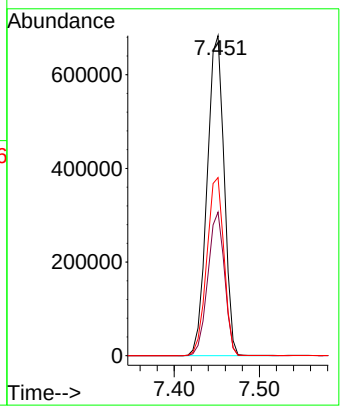


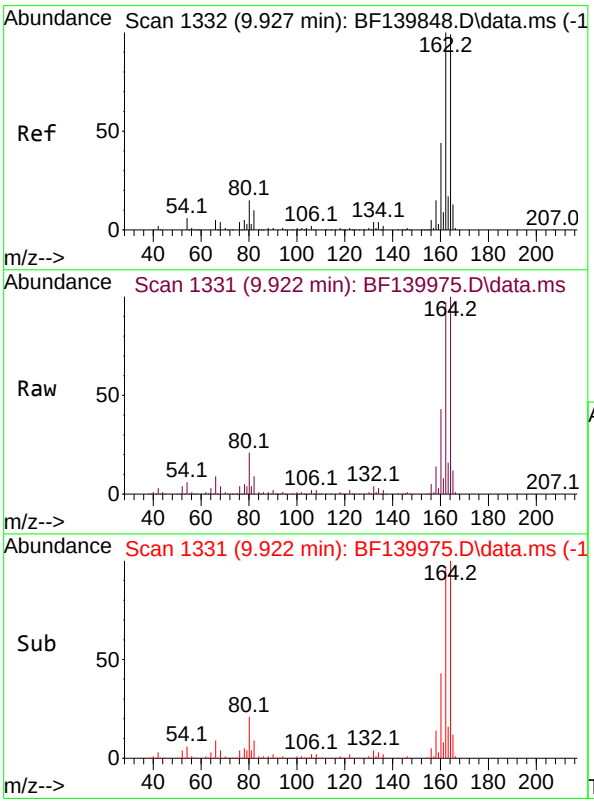
#23
Nitrobenzene-d5
Concen: 96.882 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion: 82 Resp: 946599

Ion	Ratio	Lower	Upper
82	100		
128	44.9	33.4	50.0
54	55.6	47.8	71.8

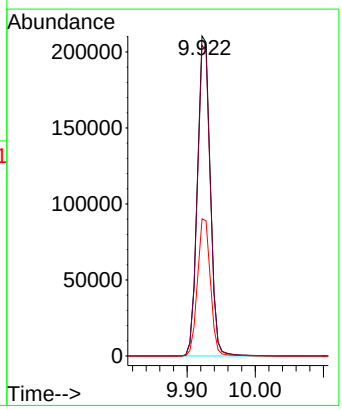


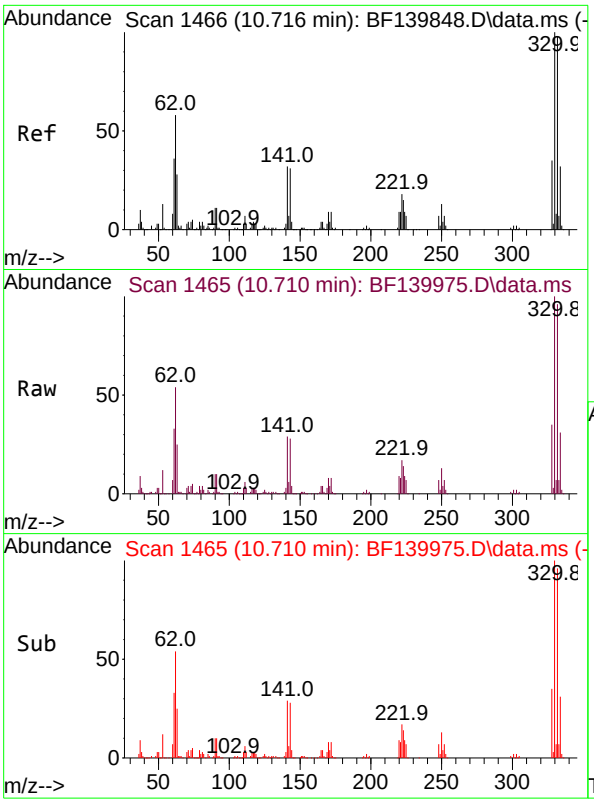


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:164 Resp: 276437

Ion	Ratio	Lower	Upper
164	100		
162	97.1	81.0	121.4
160	42.9	35.4	53.0



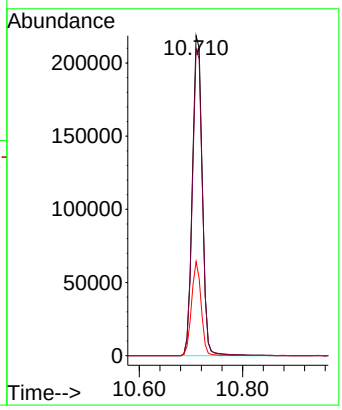


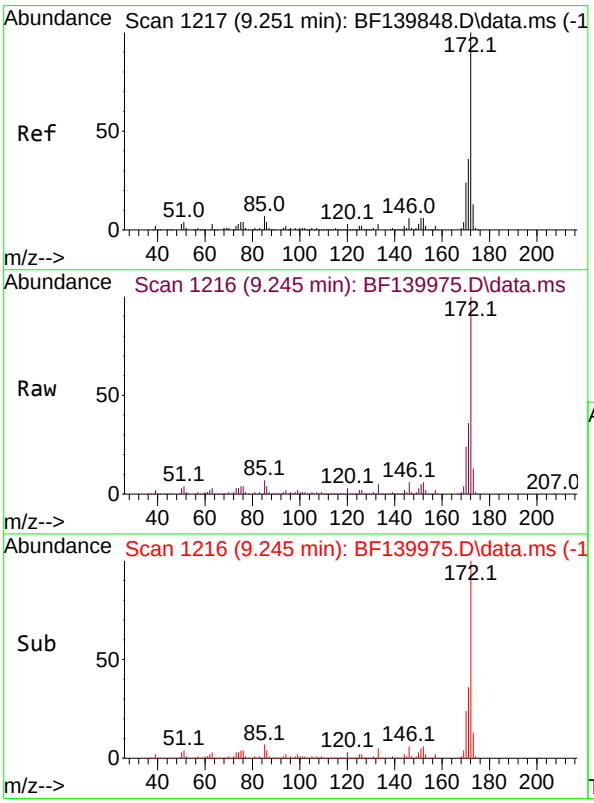
#42
2,4,6-Tribromophenol
Concen: 112.489 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:330 Resp: 290864

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	28.8	26.6	39.8

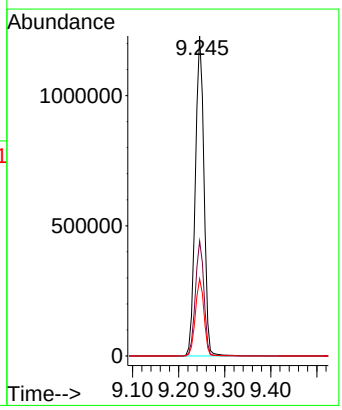


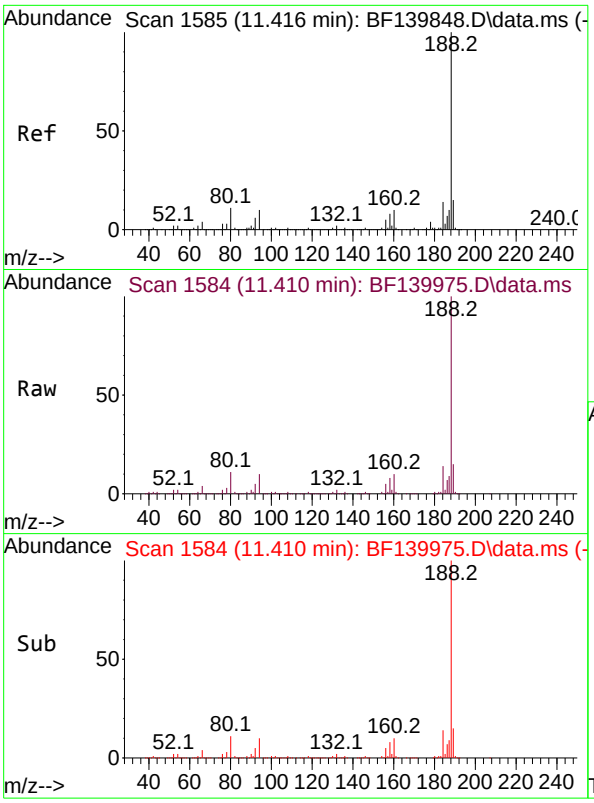


#45
2-Fluorobiphenyl
Concen: 95.659 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:172 Resp: 1600028

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.1	19.1	28.7



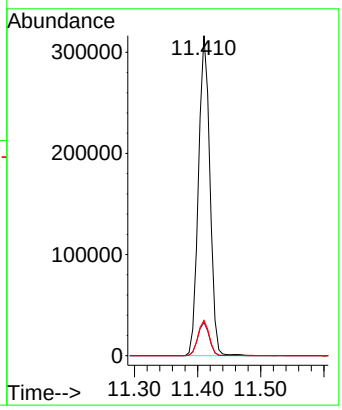


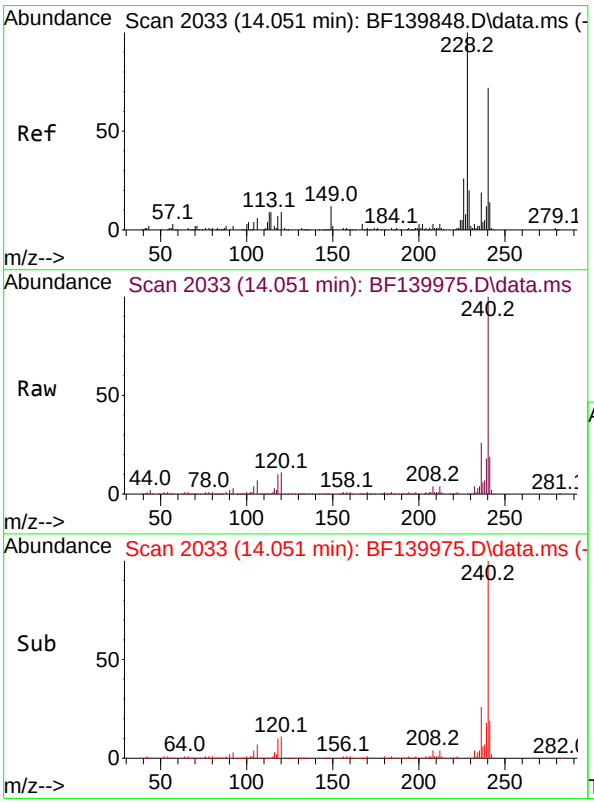
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:188 Resp: 397037

Ion	Ratio	Lower	Upper
188	100		
94	10.4	7.9	11.9
80	11.0	9.0	13.4

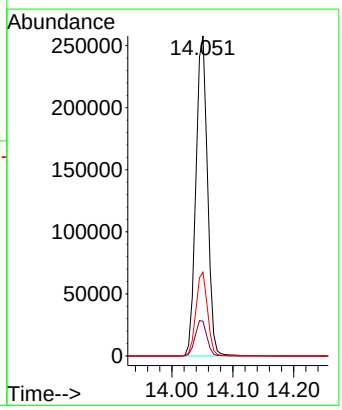


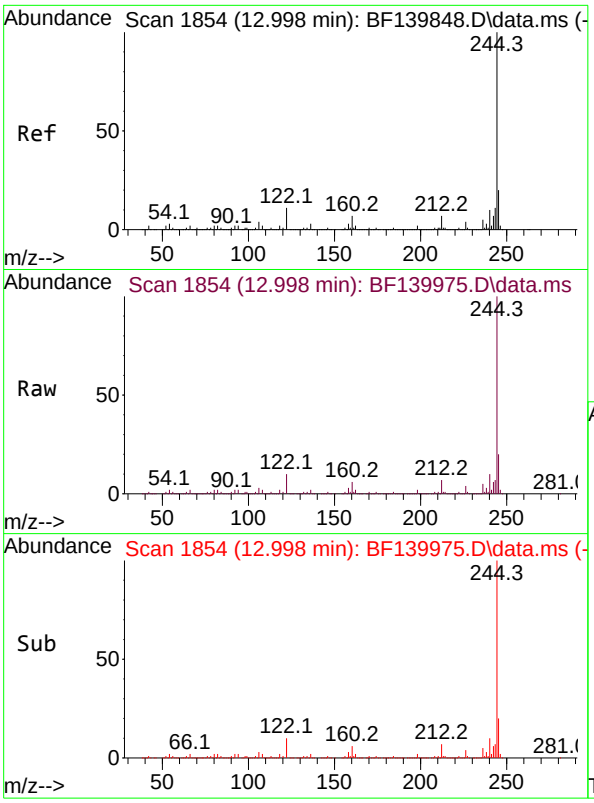


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:240 Resp: 340671

Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.4	14.2
236	26.2	20.9	31.3



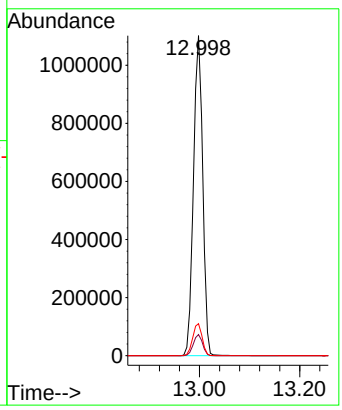


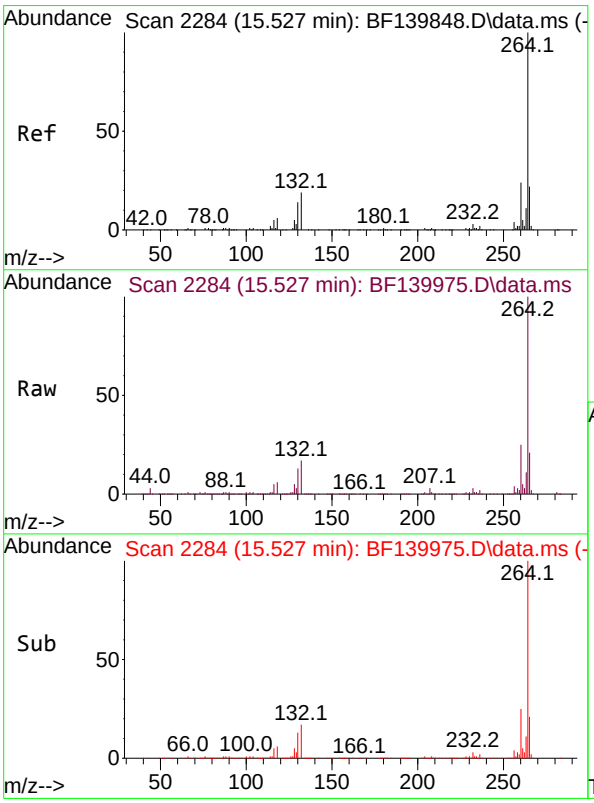
#79
Terphenyl-d14
Concen: 67.257 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Tgt Ion:244 Resp: 1406116

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	10.0	8.6	13.0

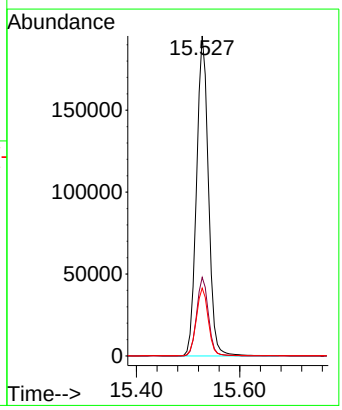




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139975.D
Acq: 23 Oct 2024 20:22

Tgt Ion:264 Resp: 311683

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	21.2	17.4	26.0



Sample Results: **BF139975.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139975.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.199	8	18	25	rVB	5193508	9482581	100.00%	29.069%
2	5.110	505	513	521	rVB	74064	113426	1.20%	0.348%
3	5.504	574	580	585	rBV	1637936	2128310	22.44%	6.524%
4	6.504	744	750	764	rBV	1135868	1525513	16.09%	4.676%
5	6.887	810	815	821	rBV	712057	895974	9.45%	2.747%
6	7.451	904	911	916	rBV	2036614	2821277	29.75%	8.649%
7	8.169	1028	1033	1038	rBV	904722	1118375	11.79%	3.428%
8	9.245	1210	1216	1221	rBV	3608402	4641242	48.94%	14.228%
9	9.922	1326	1331	1341	rBV	879459	1147142	12.10%	3.517%
10	10.634	1447	1452	1459	rVB	109546	142989	1.51%	0.438%
11	10.710	1459	1465	1479	rBV	1649776	2163165	22.81%	6.631%
12	11.410	1579	1584	1592	rBV	770201	963887	10.16%	2.955%
13	11.933	1667	1673	1688	rBV3	42912	99209	1.05%	0.304%
14	12.998	1848	1854	1859	rBV	2809282	3601174	37.98%	11.039%
15	14.051	2027	2033	2040	rBV	705842	941026	9.92%	2.885%
16	15.527	2278	2284	2300	rBV	516363	835896	8.82%	2.562%

Sum of corrected areas: 32621186

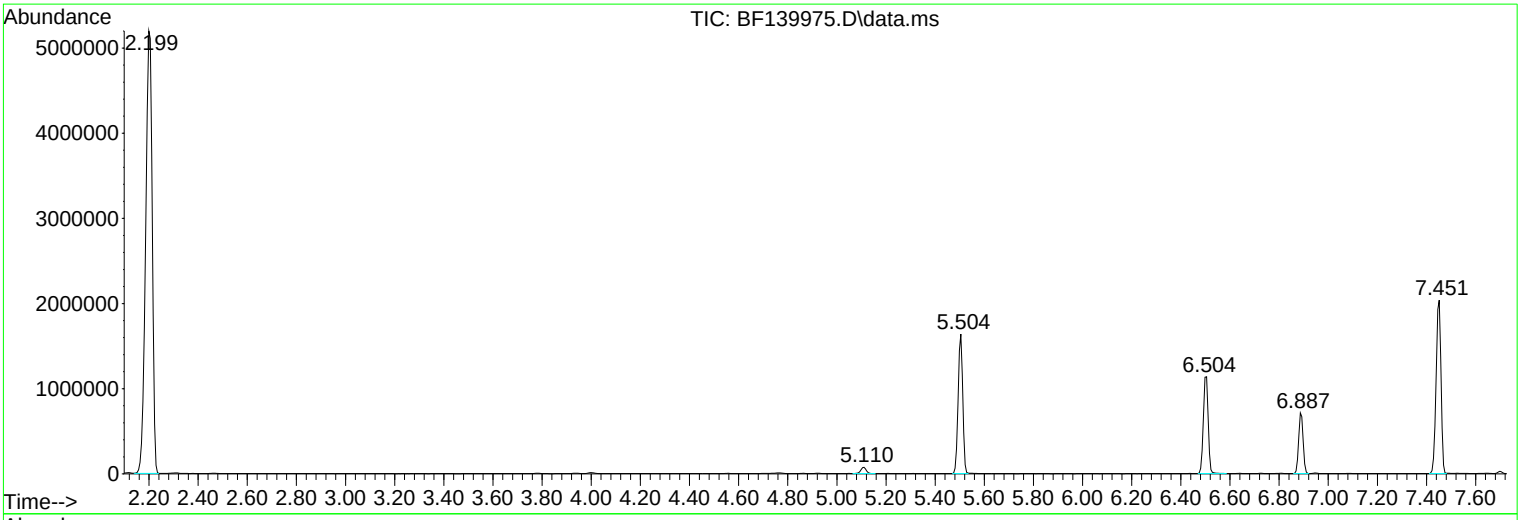
Sample Results: **BF139975.D**

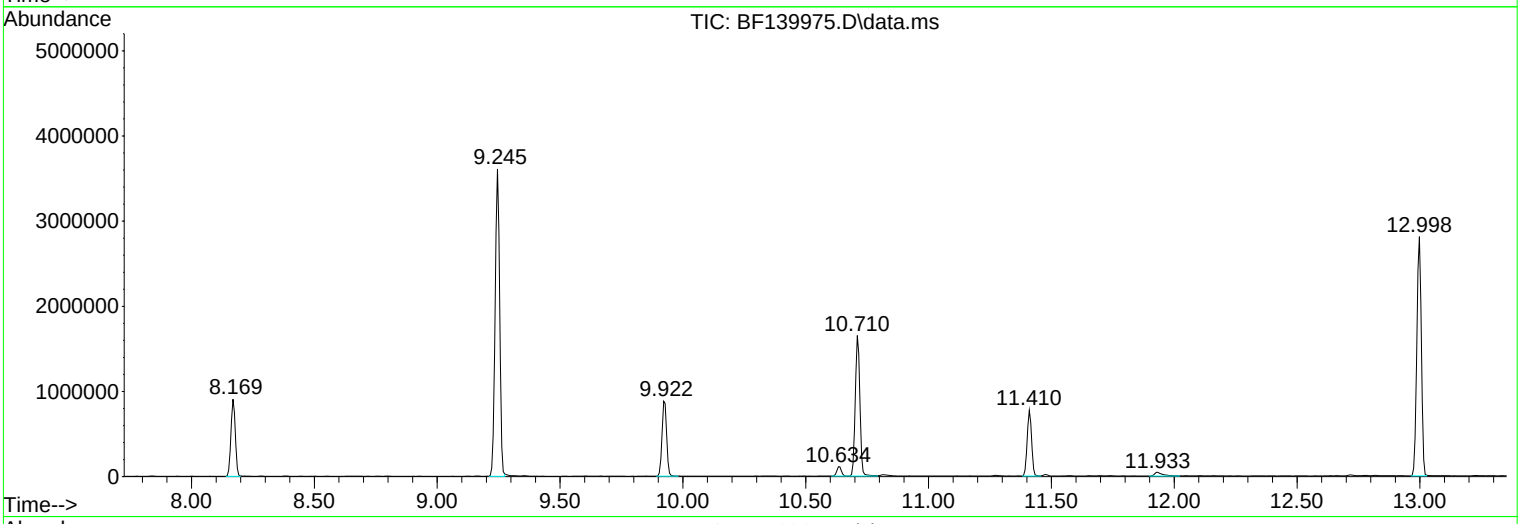
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

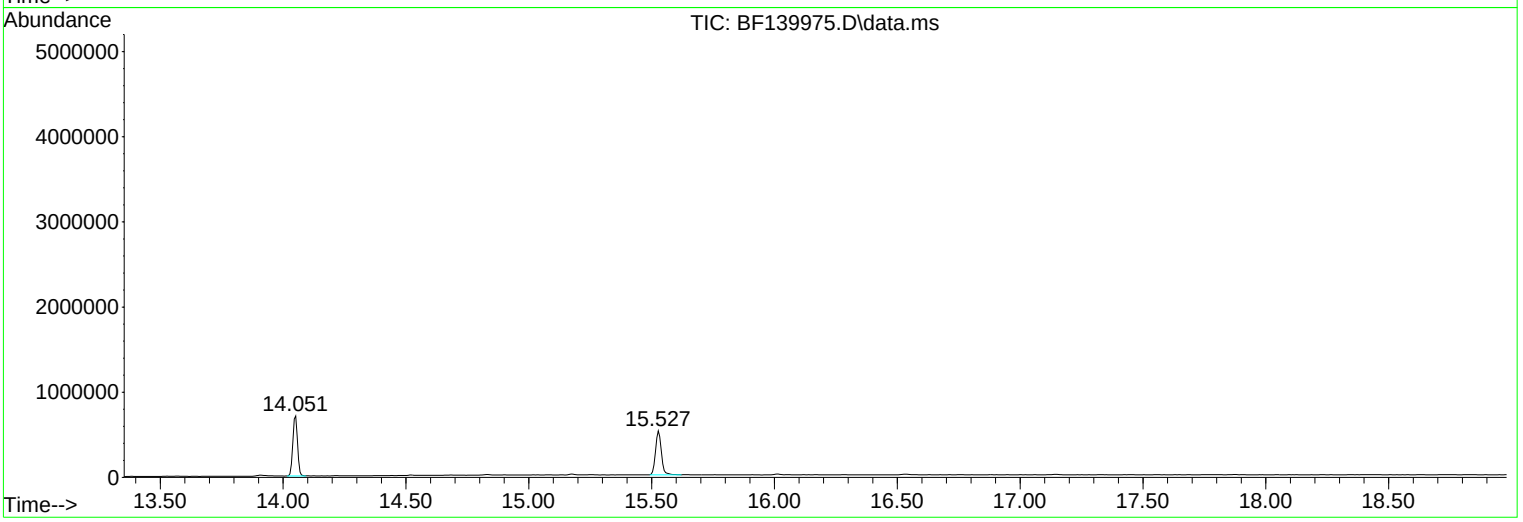
Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Sample Results: **BF139975.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

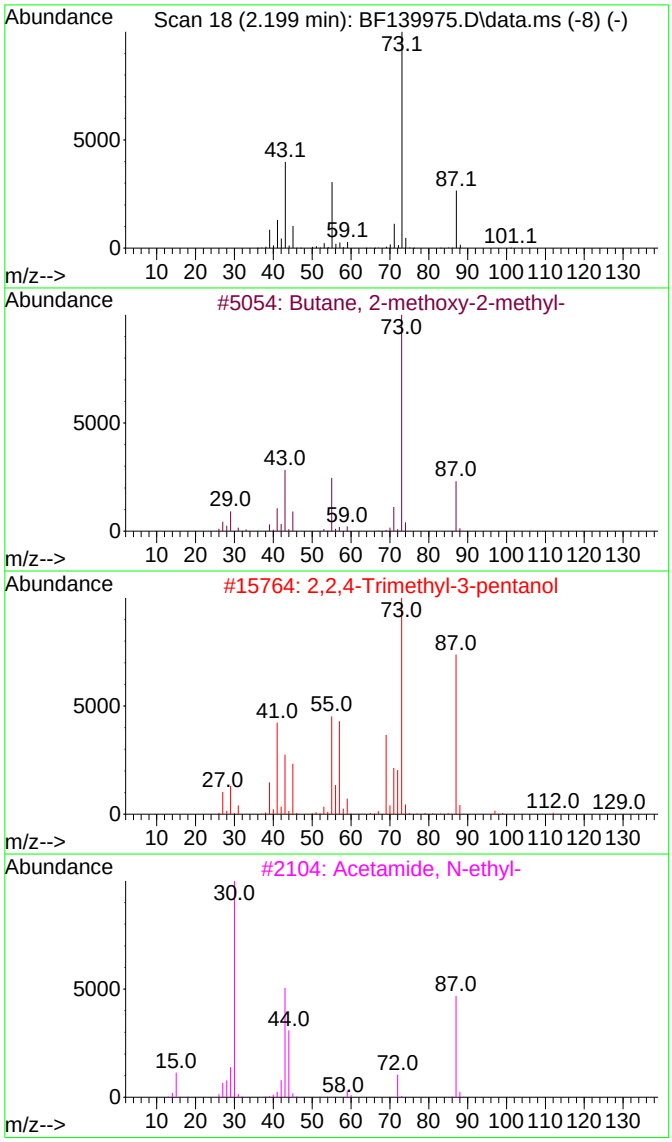
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

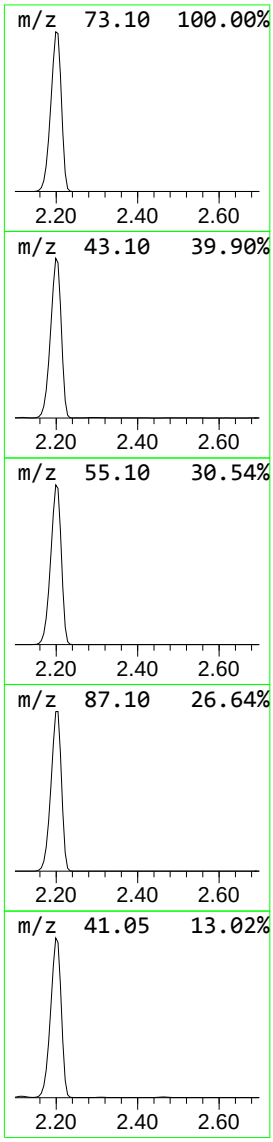
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.199	211.67 ng	9482580	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Sample Results: **BF139975.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

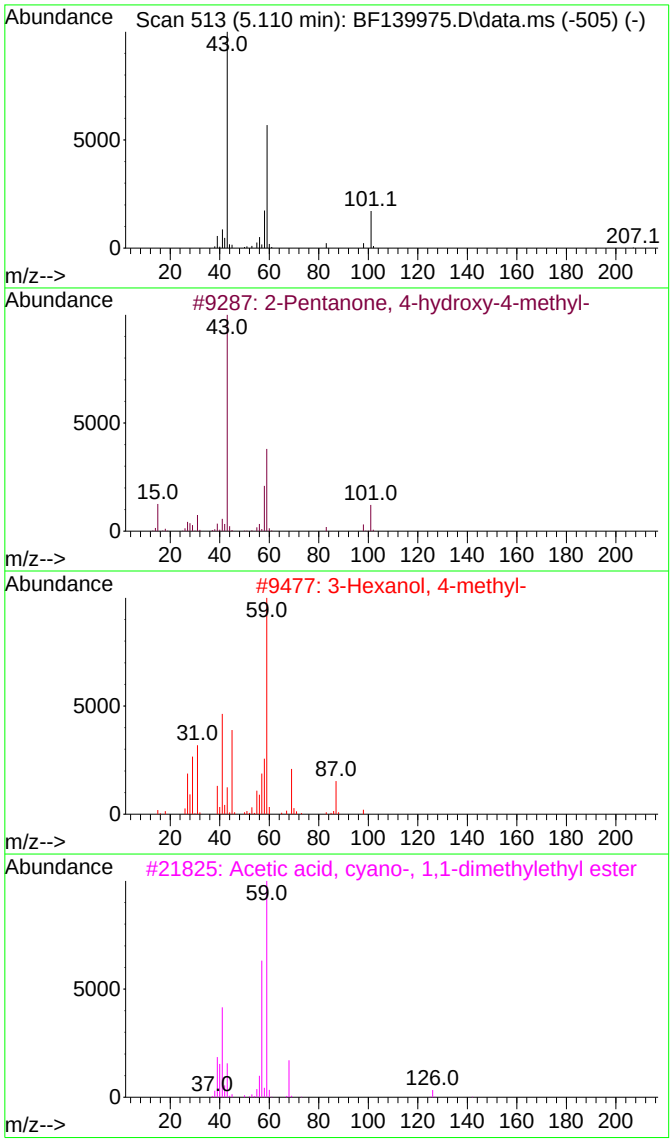
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

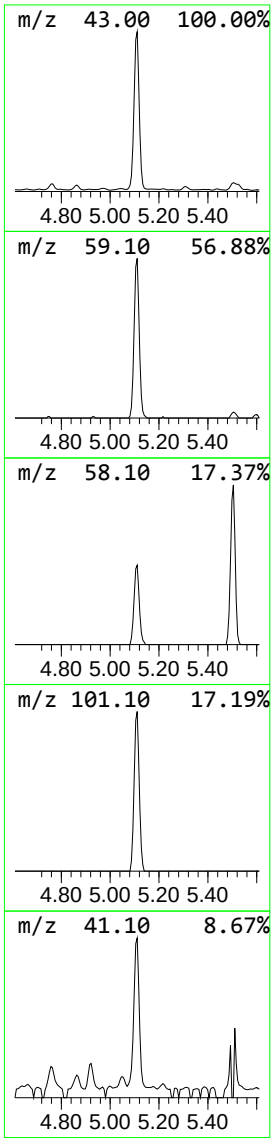
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	2.53 ng	113426	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
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	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	23
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

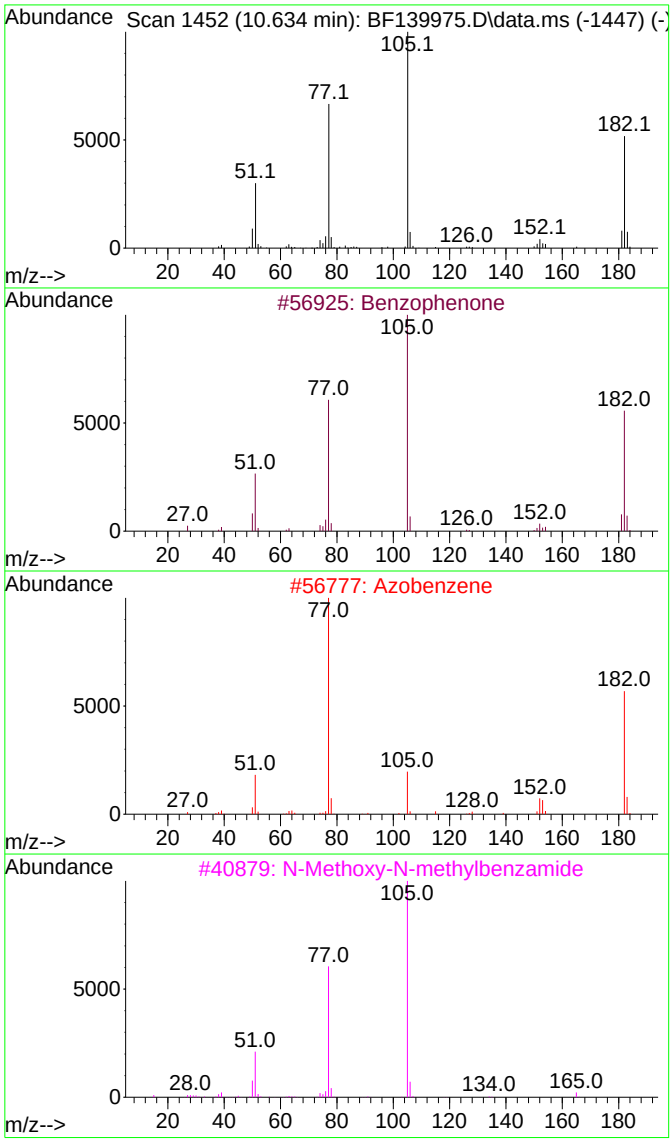
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

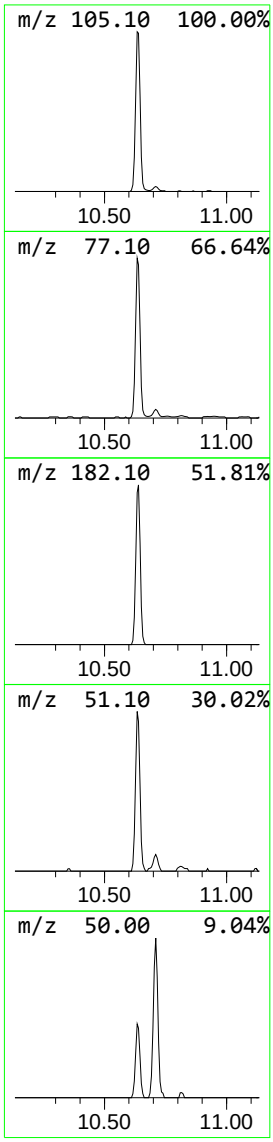
****

Peak Number 3 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	2.49 ng	142989	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	58
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	50
4	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	50
5	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

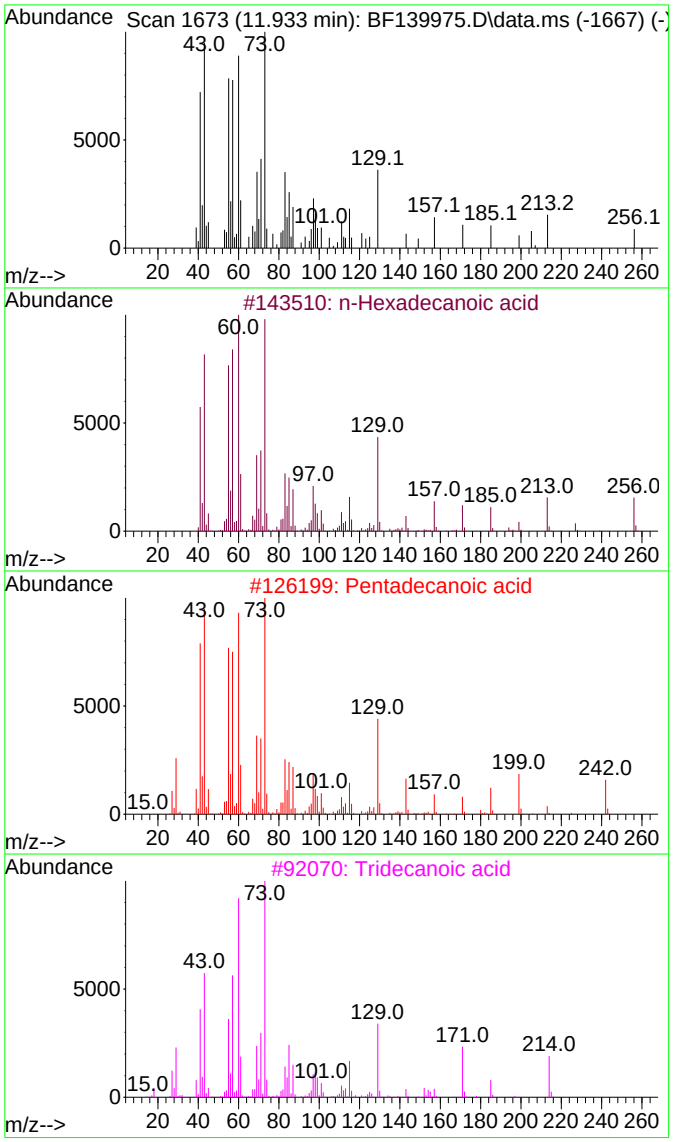
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

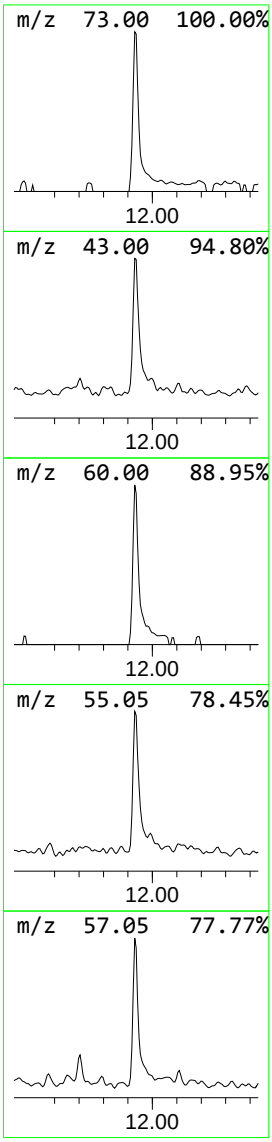
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	2.06 ng	99209	Phenanthrene-d10	11.410

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	87
3	Tridecanoic acid	214	C13H26O2	000638-53-9	80
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	Oxalic acid, allyl hexadecyl ester	354	C21H38O4	1000309-24-4	20





Sample Results: **BF139975.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139975.D
Acq On : 23 Oct 2024 20:22
Operator : RC/JU
Sample : P4397-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.199	211.7	ng	9482580	1	6.887	895974	20.0
2-Pentanone, 4-...	5.110	2.5	ng	113426	1	6.887	895974	20.0
Benzophenone	10.634	2.5	ng	142989	3	9.922	1147140	20.0
n-Hexadecanoic ...	11.933	2.1	ng	99209	4	11.410	963887	20.0

CALIBRATION SUMMARY

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.278	10.1
Benzaldehyde			1.137	1.042	0.940	0.873	0.931	15.2
Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.655	10.1
Phenol		1.952	1.832	1.760	1.712	1.583	1.706	9.2
bis(2-Chloroethyl)ether		1.470	1.423	1.359	1.294	1.251	1.319	7.8
2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.306	10.2
2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.114	7.7
2,2-oxybis(1-Chloropropane)		2.524	2.409	2.353	2.255	2.117	2.248	8.7
Acetophenone		0.578	0.533	0.516	0.481	0.452	0.490	11.4
3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.424	12.4
n-Nitroso-di-n-propylamine	1.105	1.141	1.066	1.025	0.974	0.921	1.004	9.6
Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.361	2.9
Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.534	7.1
Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.396	4.1
Isophorone		0.755	0.709	0.702	0.679	0.652	0.685	5.9
2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.149	9.2
2,4-Dimethylphenol		0.285	0.259	0.256	0.248	0.237	0.249	8.1
bis(2-Chloroethoxy)methane		0.468	0.440	0.432	0.412	0.394	0.415	8.2
2,4-Dichlorophenol		0.308	0.297	0.293	0.283	0.272	0.283	6.2
Naphthalene		1.209	1.121	1.091	1.023	0.958	1.031	11.2
4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.352	9.3
Hexachlorobutadiene		0.224	0.206	0.203	0.197	0.185	0.197	8.0
Caprolactam		0.092	0.092	0.092	0.092	0.088	0.090	2.9
4-Chloro-3-methylphenol		0.341	0.328	0.324	0.315	0.299	0.314	6.0
2-Methylnaphthalene		0.740	0.689	0.666	0.621	0.587	0.632	11.1
Hexachlorocyclopentadiene		0.185	0.193	0.198	0.198	0.186	0.188	5.3
2,4,6-Trichlorophenol		0.405	0.382	0.400	0.387	0.363	0.382	4.8
2-Fluorobiphenyl		1.512	1.396	1.280	1.162	1.088	1.210	16.0
2,4,5-Trichlorophenol		0.426	0.425	0.398	0.401	0.381	0.394	6.6
1,1-Biphenyl		1.640	1.536	1.483	1.379	1.285	1.392	12.2
2-Chloronaphthalene		1.288	1.225	1.164	1.111	1.048	1.121	10.0
2-Nitroaniline		0.299	0.318	0.353	0.365	0.354	0.343	7.2
Dimethylphthalate		1.410	1.344	1.283	1.237	1.172	1.246	8.6
Acenaphthylene		1.854	1.756	1.717	1.615	1.507	1.621	10.1

All other compounds must meet a minimum RRF of 0.010.

Raw Data

Alliance TECHNICAL GROUP

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.256	0.266	0.278	0.280	0.273	0.270	3.4
3-Nitroaniline		0.270	0.275	0.296	0.292	0.276	0.278	4.8
Acenaphthene		1.200	1.136	1.089	1.044	0.977	1.049	9.5
2,4-Dinitrophenol			0.056	0.077	0.101	0.101	0.093	23.9
4-Nitrophenol		0.187	0.207	0.225	0.232	0.219	0.214	6.8
Dibenzofuran		1.767	1.659	1.579	1.486	1.389	1.505	11.5
2,4-Dinitrotoluene		0.280	0.314	0.337	0.356	0.344	0.332	7.9
Diethylphthalate		1.366	1.308	1.267	1.214	1.165	1.223	8.0
4-Chlorophenyl-phenylether		0.698	0.638	0.617	0.569	0.526	0.579	13.1
Fluorene		1.409	1.309	1.201	1.110	1.029	1.146	14.7
4-Nitroaniline		0.249	0.259	0.270	0.275	0.263	0.263	3.6
4,6-Dinitro-2-methylphenol			0.055	0.072	0.087	0.090	0.082	18.6
n-Nitrosodiphenylamine		0.672	0.641	0.621	0.595	0.568	0.599	8.1
2,4,6-Tribromophenol		0.201	0.196	0.193	0.188	0.179	0.187	5.5
4-Bromophenyl-phenylether		0.230	0.217	0.211	0.202	0.197	0.206	7.0
Hexachlorobenzene		0.258	0.245	0.237	0.231	0.217	0.232	7.2
Atrazine		0.189	0.175	0.156	0.175	0.135	0.162	11.4
Pentachlorophenol		0.118	0.137	0.148	0.152	0.145	0.141	8.0
Phenanthrene		1.121	1.035	0.994	0.933	0.863	0.945	11.8
Anthracene		1.082	1.014	0.972	0.913	0.851	0.922	11.5
Carbazole		1.002	0.964	0.923	0.846	0.776	0.857	12.6
Di-n-butylphthalate		1.104	1.071	1.062	1.014	0.923	0.990	9.8
Fluoranthene		1.149	1.108	1.036	0.943	0.842	0.955	15.3
Pyrene		1.892	1.828	1.900	1.805	1.685	1.751	8.4
Terphenyl-d14		1.381	1.335	1.340	1.244	1.154	1.227	11.0
Butylbenzylphthalate		0.490	0.513	0.536	0.555	0.535	0.525	4.0
3,3-Dichlorobenzidine		0.368	0.372	0.390	0.387	0.374	0.380	2.2
Benzo(a)anthracene		1.425	1.355	1.329	1.331	1.267	1.302	6.5
Chrysene		1.325	1.244	1.234	1.167	1.134	1.194	6.5
Bis(2-ethylhexyl)phthalate		0.520	0.539	0.577	0.626	0.620	0.589	7.5
Di-n-octyl phthalate			0.786	0.930	1.135	1.182	1.071	16.1
Benzo(b)fluoranthene		1.317	1.240	1.319	1.196	1.105	1.218	7.1
Benzo(k)fluoranthene		1.213	1.177	0.992	1.066	1.030	1.051	10.4
Benzo(a)pyrene		1.030	1.024	1.018	1.025	0.974	1.002	3.1
Indeno(1,2,3-cd)pyrene		1.209	1.261	1.307	1.352	1.299	1.287	3.8

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024

Calibration Time(s): 10:27 13:46

LAB FILE ID: RRF2.5 = BF139844.D RRF005 = BF139845.D RRF010 = BF139846.D
RRF020 = BF139847.D RRF040 = BF139848.D RRF050 = BF139849.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.021	1.064	1.103	1.120	1.083	1.073	3.3
Benzo(g,h,i)perylene		1.030	1.046	1.090	1.128	1.081	1.072	3.4
1,2,4,5-Tetrachlorobenzene		0.609	0.579	0.562	0.537	0.512	0.540	8.7
1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.596	5.7
2,3,4,6-Tetrachlorophenol		0.334	0.322	0.326	0.310	0.296	0.309	6.3

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

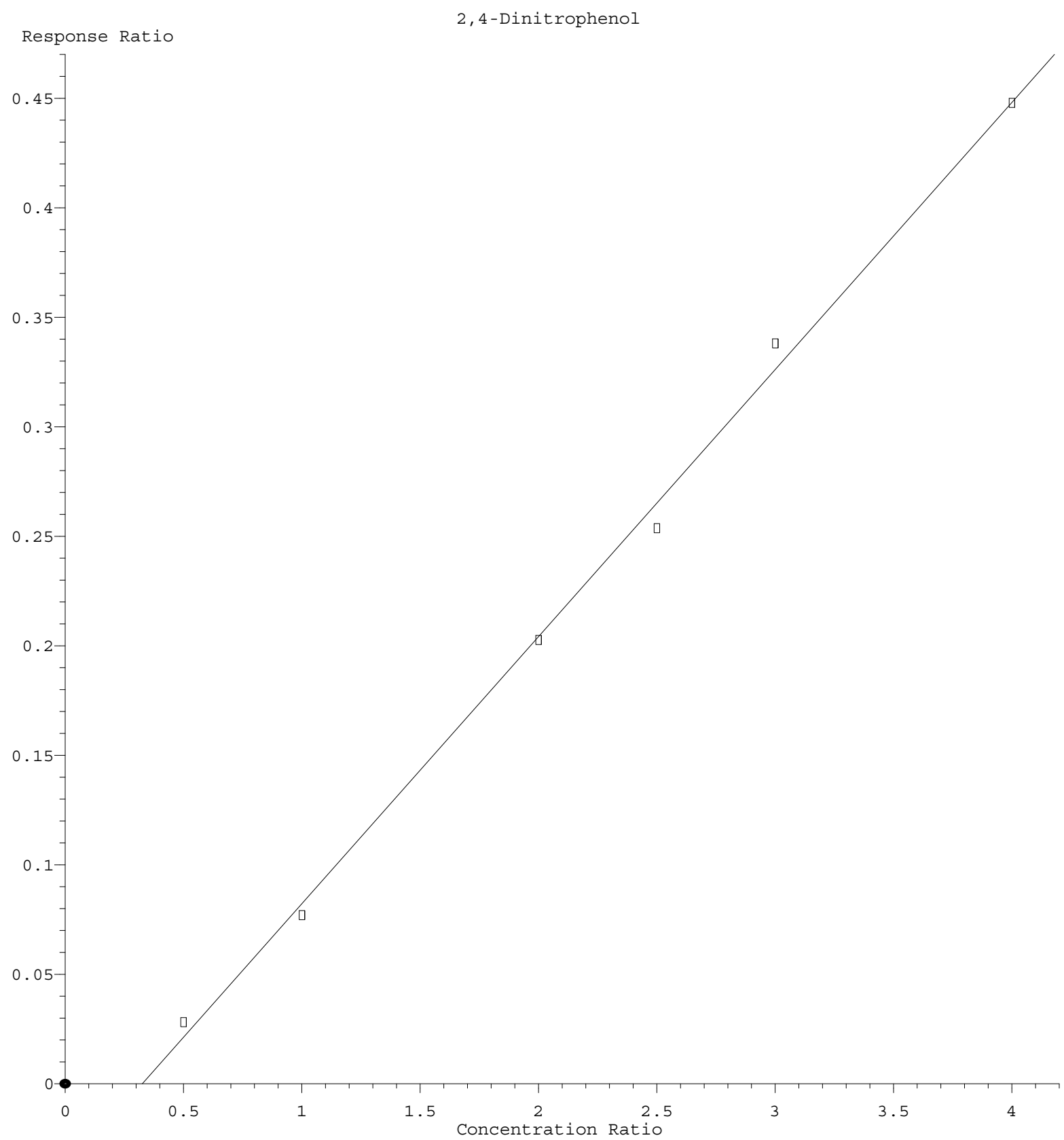
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range



Response = 1.220e-001 * Amt - 3.983e-002
Coef of Det (r^2) = 0.997175 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF101824.M
Calibration Table Last Updated: Fri Oct 18 15:07:50 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	190003	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	748539	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	423999	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	760140	20.000	ng	0.00
76) Chrysene-d12	14.051	240	519381	20.000	ng	0.00
86) Perylene-d12	15.527	264	410408	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.287	70	26252	2.754	ng	94

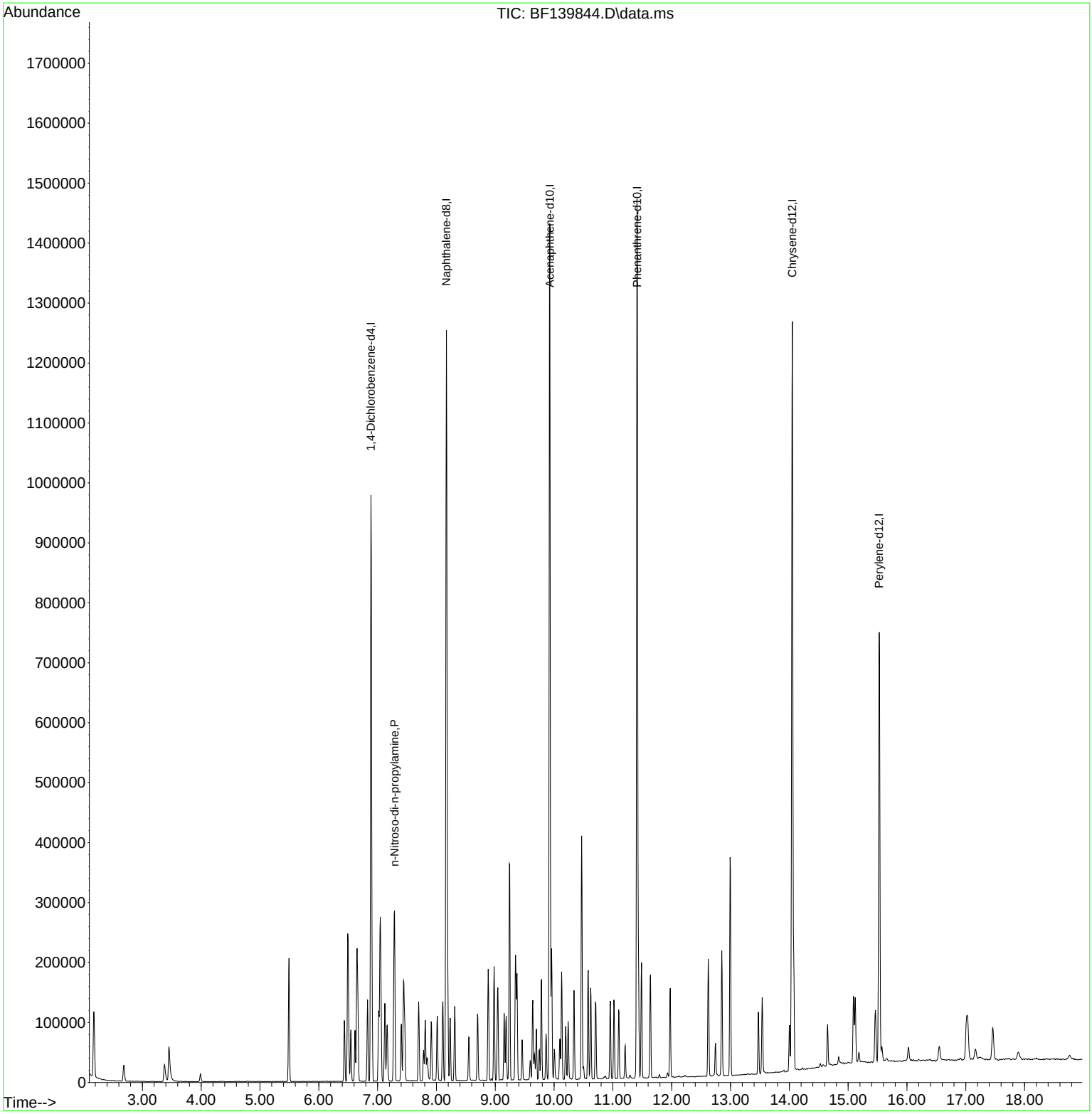
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	189112	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	737062	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	414324	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	741430	20.000	ng		0.00
76) Chrysene-d12	14.051	240	477223	20.000	ng		0.00
86) Perylene-d12	15.527	264	377685	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	138495	11.465	ng		0.00
7) Phenol-d6	6.493	99	179648	11.482	ng		-0.02
23) Nitrobenzene-d5	7.445	82	134439	10.109	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	41682	10.755	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	313171	12.492	ng		0.00
79) Terphenyl-d14	12.992	244	329424	11.248	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	30759	5.461	ng		97
3) Pyridine	3.452	79	76703	5.494	ng		98
4) n-Nitrosodimethylamine	3.375	42	38552	5.140	ng	#	96
6) Aniline	6.545	93	79083	5.424	ng		98
8) 2-Chlorophenol	6.669	128	71065	5.754	ng		98
10) Phenol	6.510	94	92287	5.620	ng		95
11) bis(2-Chloroethyl)ether	6.616	93	69504	5.575	ng		98
12) 1,3-Dichlorobenzene	6.828	146	81239	5.731	ng		99
13) 1,4-Dichlorobenzene	6.904	146	81442	5.750	ng		99
14) 1,2-Dichlorobenzene	7.057	146	78458	5.936	ng		97
15) Benzyl Alcohol	7.016	79	64060	5.582	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	119350	5.614	ng		100
17) 2-Methylphenol	7.122	107	59770	5.676	ng		96
18) Hexachloroethane	7.404	117	27566	5.458	ng		96
19) n-Nitroso-di-n-propyla...	7.287	70	53958	5.686	ng		97
20) 3+4-Methylphenols	7.275	107	79329	5.890	ng		92
22) Acetophenone	7.287	105	106522	5.900	ng		98
24) Nitrobenzene	7.463	77	76831	5.269	ng		96
25) Isophorone	7.698	82	139084	5.510	ng		100
26) 2-Nitrophenol	7.781	139	22867	4.157	ng		95
27) 2,4-Dimethylphenol	7.810	122	52430	5.716	ng		97
28) bis(2-Chloroethoxy)met...	7.916	93	86298	5.643	ng		99
29) 2,4-Dichlorophenol	8.016	162	56772	5.434	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	64640	5.592	ng		99
31) Naphthalene	8.192	128	222725	5.859	ng		99
33) 4-Chloroaniline	8.234	127	73196	5.647	ng		99
34) Hexachlorobutadiene	8.310	225	41186	5.670	ng		97
35) Caprolactam	8.557	113	16989	5.114	ng		98
36) 4-Chloro-3-methylphenol	8.704	107	62903	5.438	ng		99
37) 2-Methylnaphthalene	8.881	142	136292	5.854	ng		99
38) 1-Methylnaphthalene	8.981	142	133747	5.856	ng		100
40) 1,2,4,5-Tetrachloroben...	9.045	216	63046	5.640	ng		100
41) Hexachlorocyclopentadiene	9.039	237	19121	4.916	ng		97
43) 2,4,6-Trichlorophenol	9.151	196	41997	5.307	ng		98
44) 2,4,5-Trichlorophenol	9.187	196	44086	5.399	ng		99
46) 1,1'-Biphenyl	9.345	154	169920	5.891	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 2-Chloronaphthalene	9.369	162	133456	5.745	ng		99
48) 2-Nitroaniline	9.457	65	30999	4.363	ng		99
49) Acenaphthylene	9.786	152	192014	5.717	ng		99
50) Dimethylphthalate	9.639	163	146096	5.661	ng		100
51) 2,6-Dinitrotoluene	9.698	165	26490	4.741	ng		96
52) Acenaphthene	9.957	154	124288	5.721	ng		100
53) 3-Nitroaniline	9.863	138	27995	4.858	ng	#	94
55) Dibenzofuran	10.128	168	182985	5.870	ng		98
56) 4-Nitrophenol	10.004	139	19402	4.376	ng		89
57) 2,4-Dinitrotoluene	10.098	165	29038	4.226	ng		92
58) Fluorene	10.469	166	145913	6.146	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	34636	5.411	ng		97
60) Diethylphthalate	10.339	149	141466	5.583	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	72331	6.033	ng		96
62) 4-Nitroaniline	10.469	138	25747	4.731	ng		96
63) Azobenzene	10.622	77	151158	5.627	ng		99
66) n-Nitrosodiphenylamine	10.581	169	124472	5.609	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	42707	5.591	ng		94
68) Hexachlorobenzene	11.016	284	47895	5.575	ng		98
69) Atrazine	11.104	200	35075	5.835	ng		99
70) Pentachlorophenol	11.210	266	21781	4.178	ng		93
71) Phenanthrene	11.433	178	207716	5.931	ng		98
72) Anthracene	11.486	178	200621	5.871	ng		99
73) Carbazole	11.639	167	185743	5.845	ng		99
74) Di-n-butylphthalate	11.975	149	204647	5.574	ng		99
75) Fluoranthene	12.622	202	213038	6.017	ng		100
77) Benzidine	12.745	184	54501	7.022	ng		99
78) Pyrene	12.851	202	225742	5.404	ng		99
80) Butylbenzylphthalate	13.474	149	58502	4.671	ng		100
81) Benzo(a)anthracene	14.039	228	170026	5.473	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	43937	4.851	ng		100
83) Chrysene	14.074	228	158121	5.551	ng		98
84) Bis(2-ethylhexyl)phtha...	14.033	149	62085	4.419	ng		97
87) Indeno(1,2,3-cd)pyrene	17.010	276	114185	4.699	ng		98
88) Benzo(b)fluoranthene	15.092	252	124353	5.405	ng		100
89) Benzo(k)fluoranthene	15.121	252	114525	5.772	ng		99
90) Benzo(a)pyrene	15.463	252	97243	5.137	ng		100
91) Dibenzo(a,h)anthracene	17.033	278	96416	4.757	ng		99
92) Benzo(g,h,i)perylene	17.457	276	97292	4.805	ng		99

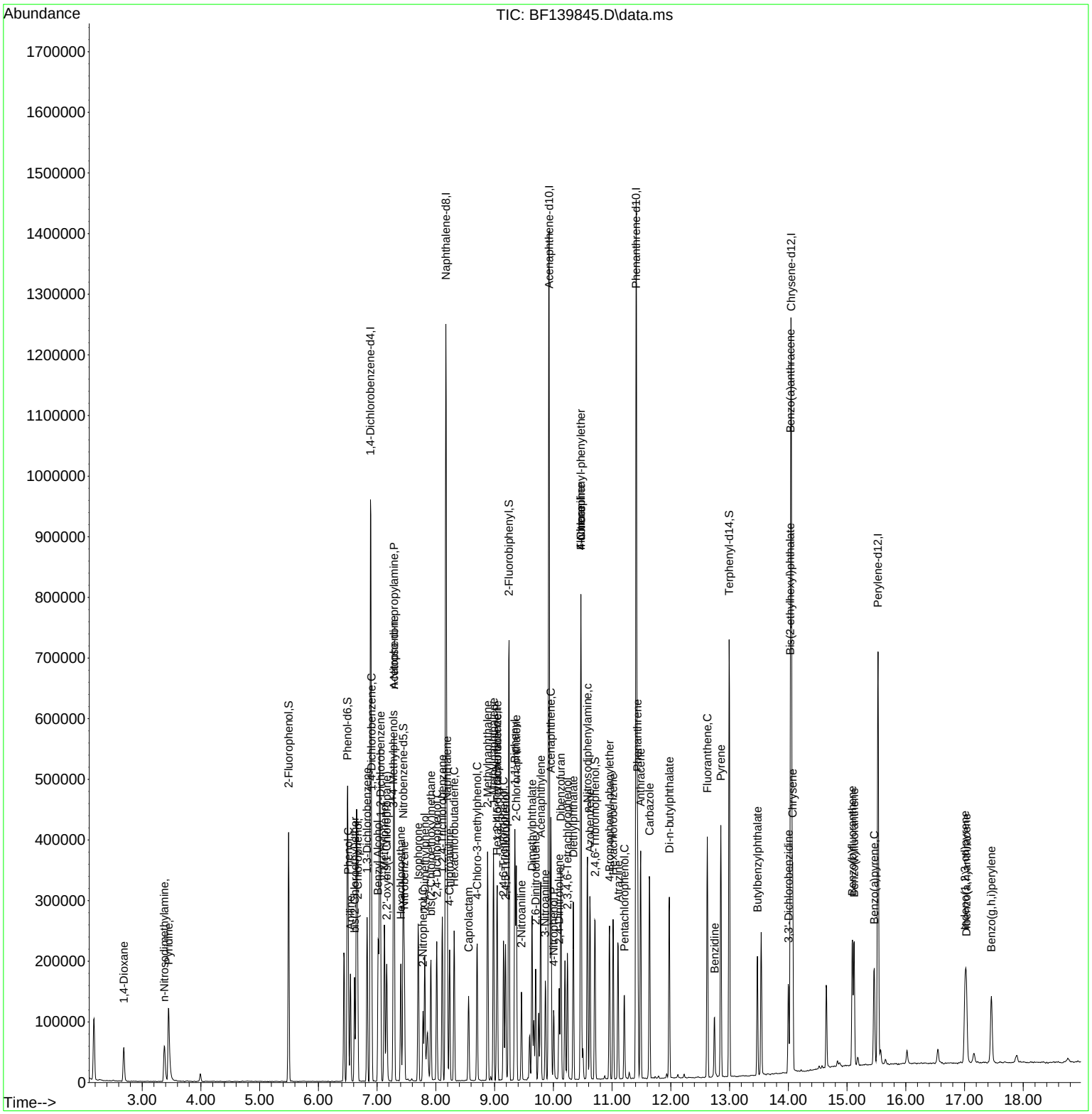
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139845.D
Acq On : 18 Oct 2024 10:55
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	188831	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	733621	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	411556	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	732661	20.000	ng		0.00
76) Chrysene-d12	14.051	240	452443	20.000	ng		0.00
86) Perylene-d12	15.527	264	375863	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	264054	21.891	ng		0.00
7) Phenol-d6	6.498	99	343334	21.977	ng		-0.01
23) Nitrobenzene-d5	7.445	82	268128	20.257	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	80655	20.952	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	574563	23.073	ng		0.00
79) Terphenyl-d14	12.998	244	603787	21.745	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	58969	10.485	ng		97
3) Pyridine	3.440	79	148260	10.636	ng		97
4) n-Nitrosodimethylamine	3.375	42	75504	10.081	ng		96
6) Aniline	6.546	93	155680	10.692	ng		98
8) 2-Chlorophenol	6.669	128	134290	10.890	ng		99
9) Benzaldehyde	6.440	77	107330	12.213	ng		98
10) Phenol	6.510	94	172965	10.549	ng		98
11) bis(2-Chloroethyl)ether	6.616	93	134367	10.794	ng		100
12) 1,3-Dichlorobenzene	6.828	146	156338	11.045	ng		99
13) 1,4-Dichlorobenzene	6.904	146	154957	10.957	ng		99
14) 1,2-Dichlorobenzene	7.057	146	149129	11.299	ng		98
15) Benzyl Alcohol	7.022	79	122669	10.704	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	227443	10.715	ng		99
17) 2-Methylphenol	7.128	107	109901	10.452	ng		98
18) Hexachloroethane	7.404	117	53892	10.686	ng		99
19) n-Nitroso-di-n-propyla...	7.293	70	100635	10.621	ng		98
20) 3+4-Methylphenols	7.275	107	148497	11.041	ng	#	90
22) Acetophenone	7.293	105	195595	10.885	ng		96
24) Nitrobenzene	7.463	77	147356	10.154	ng		98
25) Isophorone	7.698	82	260247	10.359	ng		98
26) 2-Nitrophenol	7.781	139	50159	9.162	ng		100
27) 2,4-Dimethylphenol	7.810	122	94947	10.400	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	161423	10.605	ng		99
29) 2,4-Dichlorophenol	8.016	162	109102	10.492	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	121232	10.537	ng		99
31) Naphthalene	8.192	128	411053	10.864	ng		99
32) Benzoic acid	7.869	122	64294	8.075	ng		99
33) 4-Chloroaniline	8.234	127	140021	10.853	ng		100
34) Hexachlorobutadiene	8.310	225	75740	10.477	ng		99
35) Caprolactam	8.569	113	33908	10.256	ng		99
36) 4-Chloro-3-methylphenol	8.704	107	120339	10.452	ng		98
37) 2-Methylnaphthalene	8.881	142	252554	10.899	ng		99
38) 1-Methylnaphthalene	8.981	142	250609	11.023	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	119227	10.738	ng		99
41) Hexachlorocyclopentadiene	9.039	237	39754	10.290	ng		98
43) 2,4,6-Trichlorophenol	9.151	196	78578	9.996	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

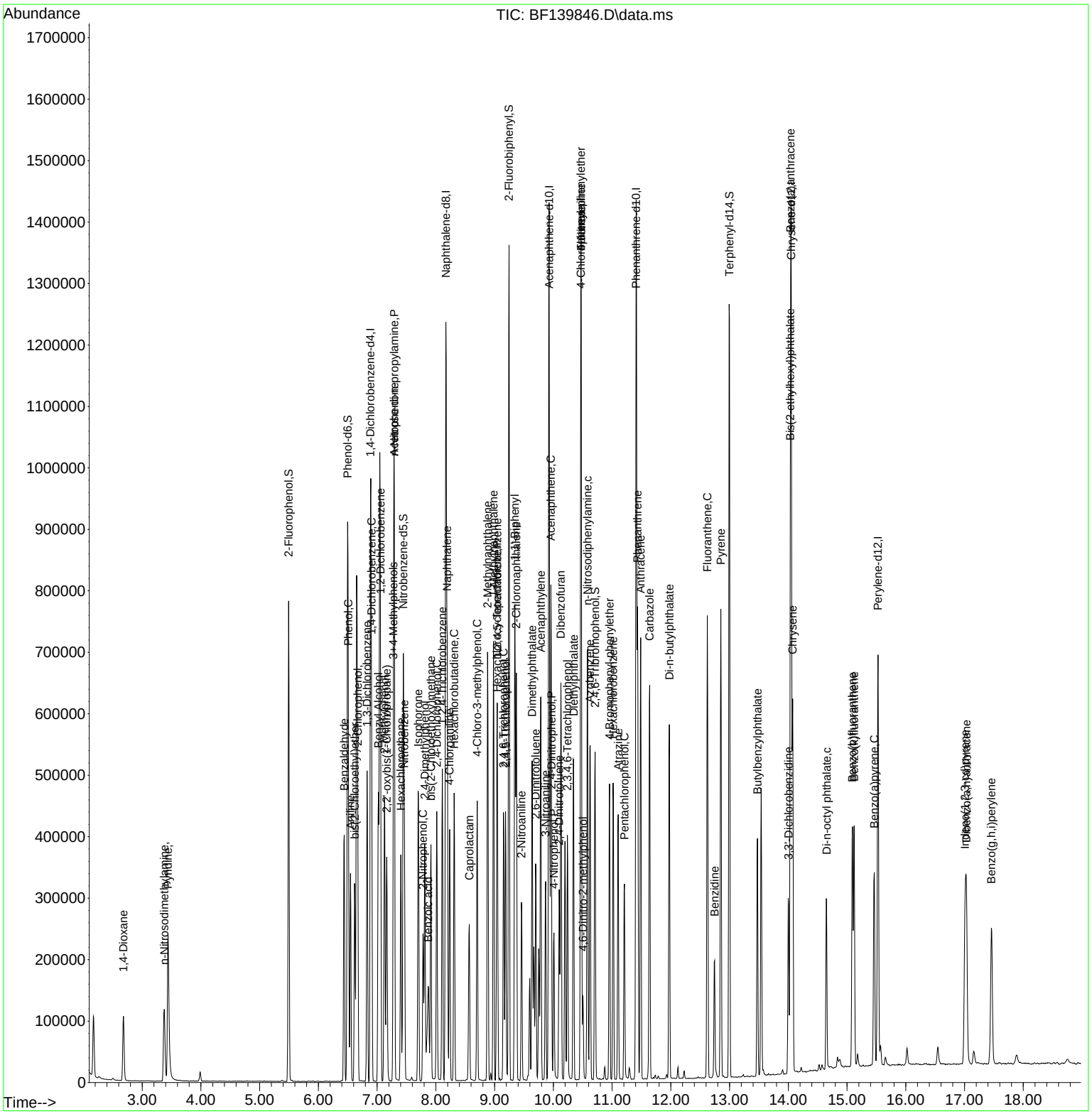
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	87482	10.787	ng		100
46) 1,1'-Biphenyl	9.345	154	316146	11.035	ng		99
47) 2-Chloronaphthalene	9.369	162	252140	10.927	ng		98
48) 2-Nitroaniline	9.457	65	65425	9.270	ng		98
49) Acenaphthylene	9.787	152	361398	10.833	ng		99
50) Dimethylphthalate	9.639	163	276645	10.792	ng		99
51) 2,6-Dinitrotoluene	9.698	165	54824	9.877	ng		95
52) Acenaphthene	9.957	154	233749	10.832	ng		98
53) 3-Nitroaniline	9.869	138	56574	9.884	ng	#	98
54) 2,4-Dinitrophenol	9.969	184	11577	11.138	ng	#	1
55) Dibenzofuran	10.128	168	341446	11.028	ng		98
56) 4-Nitrophenol	10.010	139	42688	9.694	ng		98
57) 2,4-Dinitrotoluene	10.098	165	64666	9.474	ng		94
58) Fluorene	10.475	166	269323	11.420	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	66170	10.408	ng		97
60) Diethylphthalate	10.345	149	269178	10.694	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	131191	11.016	ng		97
62) 4-Nitroaniline	10.475	138	53288	9.857	ng		98
63) Azobenzene	10.622	77	284960	10.679	ng		100
65) 4,6-Dinitro-2-methylph...	10.504	198	20120	6.732	ng		97
66) n-Nitrosodiphenylamine	10.581	169	234741	10.705	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	79420	10.522	ng		98
68) Hexachlorobenzene	11.016	284	89927	10.594	ng		98
69) Atrazine	11.104	200	64267	10.819	ng		99
70) Pentachlorophenol	11.210	266	50361	9.775	ng		100
71) Phenanthrene	11.433	178	379233	10.958	ng		99
72) Anthracene	11.486	178	371391	10.999	ng		99
73) Carbazole	11.639	167	353253	11.249	ng		99
74) Di-n-butylphthalate	11.975	149	392482	10.818	ng		99
75) Fluoranthene	12.622	202	405919	11.602	ng		99
77) Benzidine	12.745	184	104253	14.168	ng		99
78) Pyrene	12.851	202	413606	10.444	ng		99
80) Butylbenzylphthalate	13.474	149	116053	9.774	ng		100
81) Benzo(a)anthracene	14.039	228	306594	10.410	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	84205	9.806	ng		99
83) Chrysene	14.074	228	281467	10.423	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	121932	9.153	ng		99
85) Di-n-octyl phthalate	14.651	149	177824	7.339	ng		99
87) Indeno(1,2,3-cd)pyrene	17.010	276	236914	9.798	ng		99
88) Benzo(b)fluoranthene	15.092	252	232988	10.176	ng		99
89) Benzo(k)fluoranthene	15.121	252	221219	11.203	ng		99
90) Benzo(a)pyrene	15.463	252	192493	10.217	ng		100
91) Dibenzo(a,h)anthracene	17.033	278	199946	9.912	ng		99
92) Benzo(g,h,i)perylene	17.457	276	196609	9.758	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	192582	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	735124	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	413023	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	724973	20.000	ng	0.00
76) Chrysene-d12	14.051	240	402251	20.000	ng	0.00
86) Perylene-d12	15.527	264	371811	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	512648	41.673	ng	0.00
7) Phenol-d6	6.504	99	658086	41.304	ng	0.00
23) Nitrobenzene-d5	7.451	82	546550	41.206	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	159165	41.199	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1057523	42.316	ng	0.00
79) Terphenyl-d14	12.998	244	1078101	43.673	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.681	88	116188	20.257	ng	98
3) Pyridine	3.440	79	293019	20.611	ng	98
4) n-Nitrosodimethylamine	3.381	42	153824	20.138	ng	99
6) Aniline	6.551	93	311561	20.982	ng	99
8) 2-Chlorophenol	6.669	128	261502	20.794	ng	98
9) Benzaldehyde	6.440	77	200586	22.379	ng	98
10) Phenol	6.516	94	338933	20.269	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	261690	20.612	ng	99
12) 1,3-Dichlorobenzene	6.828	146	297432	20.603	ng	99
13) 1,4-Dichlorobenzene	6.910	146	300107	20.808	ng	98
14) 1,2-Dichlorobenzene	7.063	146	284645	21.146	ng	99
15) Benzyl Alcohol	7.022	79	242106	20.715	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	453174	20.933	ng	99
17) 2-Methylphenol	7.128	107	218455	20.371	ng	99
18) Hexachloroethane	7.404	117	105775	20.566	ng	98
19) n-Nitroso-di-n-propyla...	7.293	70	197390	20.427	ng	97
20) 3+4-Methylphenols	7.281	107	292795	21.346	ng	96
22) Acetophenone	7.293	105	379127	21.056	ng	99
24) Nitrobenzene	7.469	77	299625	20.604	ng	99
25) Isophorone	7.704	82	516119	20.502	ng	100
26) 2-Nitrophenol	7.787	139	110497	20.141	ng	97
27) 2,4-Dimethylphenol	7.816	122	187930	20.544	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	317497	20.816	ng	99
29) 2,4-Dichlorophenol	8.016	162	215409	20.673	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	238559	20.691	ng	100
31) Naphthalene	8.192	128	801971	21.153	ng	99
32) Benzoic acid	7.892	122	152028	19.054	ng	99
33) 4-Chloroaniline	8.239	127	270435	20.919	ng	98
34) Hexachlorobutadiene	8.310	225	149527	20.641	ng	100
35) Caprolactam	8.587	113	67624	20.411	ng	100
36) 4-Chloro-3-methylphenol	8.704	107	238461	20.668	ng	100
37) 2-Methylnaphthalene	8.881	142	489343	21.075	ng	100
38) 1-Methylnaphthalene	8.981	142	481797	21.149	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	232025	20.823	ng	99
41) Hexachlorocyclopentadiene	9.039	237	81579	21.041	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	165112	20.930	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	164517	20.213	ng		98
46) 1,1'-Biphenyl	9.345	154	612342	21.297	ng		99
47) 2-Chloronaphthalene	9.375	162	480916	20.767	ng		99
48) 2-Nitroaniline	9.463	65	146002	20.614	ng		98
49) Acenaphthylene	9.786	152	709161	21.182	ng		99
50) Dimethylphthalate	9.645	163	529745	20.592	ng		100
51) 2,6-Dinitrotoluene	9.704	165	114726	20.596	ng		98
52) Acenaphthene	9.963	154	449770	20.768	ng		99
53) 3-Nitroaniline	9.869	138	122186	21.271	ng		99
54) 2,4-Dinitrophenol	9.975	184	31801	19.148	ng	#	67
55) Dibenzofuran	10.134	168	652249	20.991	ng		98
56) 4-Nitrophenol	10.010	139	93060	21.057	ng		95
57) 2,4-Dinitrotoluene	10.104	165	139381	20.348	ng		98
58) Fluorene	10.475	166	496012	20.958	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	134842	21.133	ng		98
60) Diethylphthalate	10.345	149	523458	20.723	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	254950	21.331	ng		97
62) 4-Nitroaniline	10.481	138	111683	20.586	ng		98
63) Azobenzene	10.628	77	559837	20.906	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	52180	17.645	ng		100
66) n-Nitrosodiphenylamine	10.581	169	449925	20.736	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	153196	20.512	ng		98
68) Hexachlorobenzene	11.022	284	172091	20.488	ng		99
69) Atrazine	11.104	200	113089	19.240	ng		99
70) Pentachlorophenol	11.210	266	107595	21.106	ng		99
71) Phenanthrene	11.439	178	720363	21.036	ng		100
72) Anthracene	11.486	178	704417	21.083	ng		99
73) Carbazole	11.639	167	669328	21.540	ng		100
74) Di-n-butylphthalate	11.975	149	769779	21.442	ng		99
75) Fluoranthene	12.622	202	751337	21.703	ng		99
77) Benzidine	12.745	184	118035	18.042	ng		100
78) Pyrene	12.851	202	764077	21.700	ng		100
80) Butylbenzylphthalate	13.474	149	215683	20.432	ng		98
81) Benzo(a)anthracene	14.039	228	534525	20.413	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	156770	20.534	ng		100
83) Chrysene	14.074	228	496447	20.678	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	232200	19.606	ng		99
85) Di-n-octyl phthalate	14.651	149	373952	17.359	ng		100
87) Indeno(1,2,3-cd)pyrene	17.015	276	485858	20.312	ng		100
88) Benzo(b)fluoranthene	15.092	252	490566	21.659	ng		100
89) Benzo(k)fluoranthene	15.121	252	368835	18.883	ng		99
90) Benzo(a)pyrene	15.463	252	378617	20.316	ng		100
91) Dibenzo(a,h)anthracene	17.039	278	410285	20.561	ng		99
92) Benzo(g,h,i)perylene	17.468	276	405140	20.326	ng		99

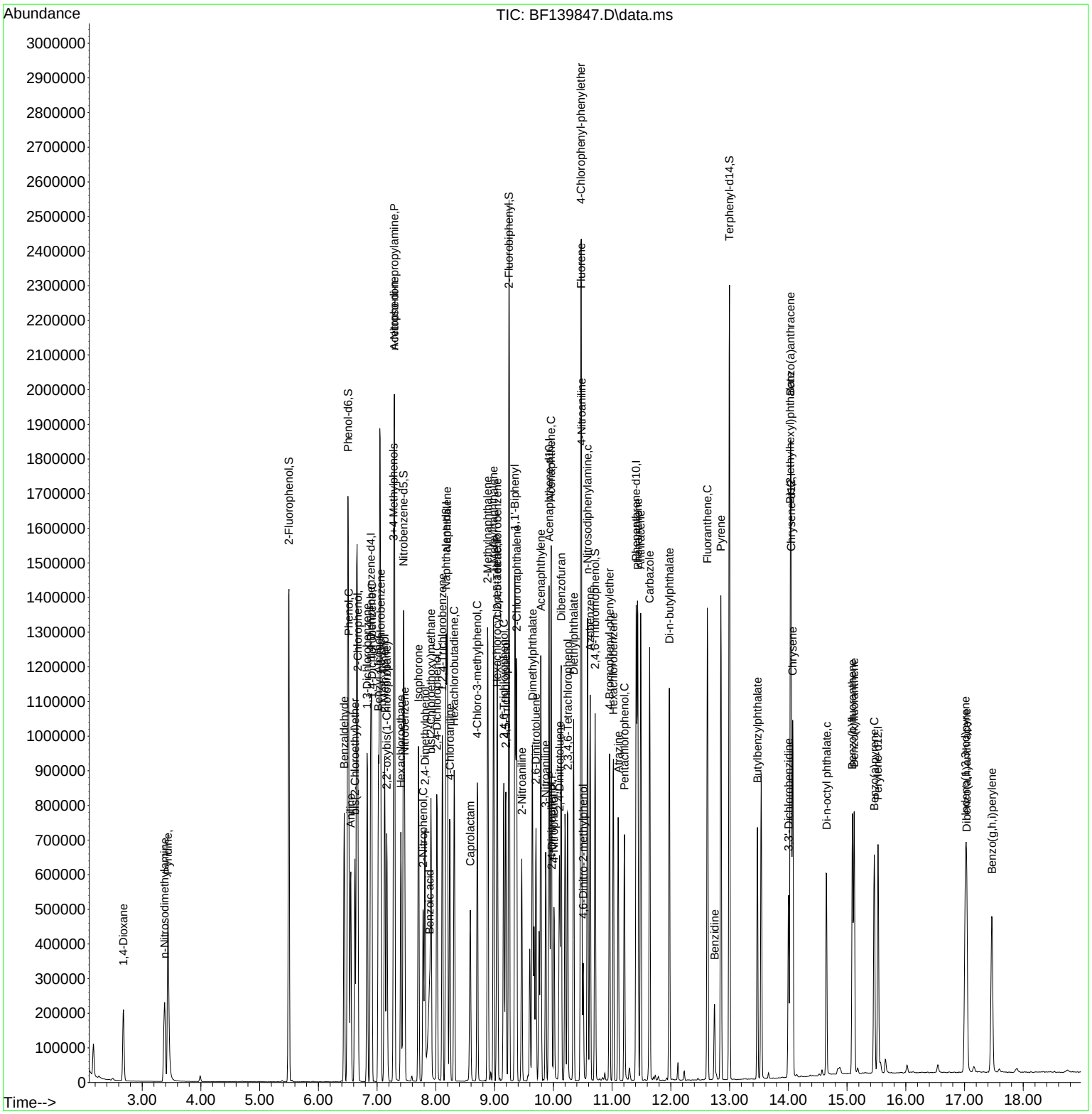
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139847.D
Acq On : 18 Oct 2024 11:52
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Oct 18 14:18:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	181899	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	688880	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	379753	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	663459	20.000	ng	0.00
76) Chrysene-d12	14.051	240	345800	20.000	ng	0.00
86) Perylene-d12	15.527	264	365076	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	929569	80.002	ng	0.00
7) Phenol-d6	6.510	99	1197998	79.607	ng	0.00
23) Nitrobenzene-d5	7.451	82	1021808	82.209	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	285205	80.292	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1764495	76.791	ng	0.00
79) Terphenyl-d14	12.998	244	1721125	81.103	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.687	88	214958	39.679	ng	100
3) Pyridine	3.446	79	547145	40.746	ng	100
4) n-Nitrosodimethylamine	3.398	42	293138	40.631	ng	100
6) Aniline	6.551	93	575402	41.026	ng	100
8) 2-Chlorophenol	6.675	128	476614	40.124	ng	100
9) Benzaldehyde	6.439	77	341959	40.393	ng	100
10) Phenol	6.522	94	622748m	39.429	ng	
11) bis(2-Chloroethyl)ether	6.628	93	470765	39.258	ng	100
12) 1,3-Dichlorobenzene	6.834	146	545252	39.988	ng	100
13) 1,4-Dichlorobenzene	6.910	146	541068	39.718	ng	100
14) 1,2-Dichlorobenzene	7.063	146	501857	39.473	ng	100
15) Benzyl Alcohol	7.028	79	441461	39.991	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.169	45	820216	40.113	ng	100
17) 2-Methylphenol	7.133	107	405109	39.996	ng	100
18) Hexachloroethane	7.404	117	196637	40.478	ng	100
19) n-Nitroso-di-n-propyla...	7.304	70	354454	38.835	ng	100
20) 3+4-Methylphenols	7.286	107	515857	39.818	ng	100
22) Acetophenone	7.298	105	663304	39.312	ng	100
24) Nitrobenzene	7.475	77	555115	40.735	ng	100
25) Isophorone	7.710	82	935400	39.651	ng	100
26) 2-Nitrophenol	7.786	139	216916	42.193	ng	100
27) 2,4-Dimethylphenol	7.816	122	341985	39.894	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	567188	39.683	ng	100
29) 2,4-Dichlorophenol	8.022	162	390330	39.976	ng	100
30) 1,2,4-Trichlorobenzene	8.116	180	434274	40.195	ng	100
31) Naphthalene	8.198	128	1409796	39.681	ng	100
32) Benzoic acid	7.922	122	302443	40.451	ng	100
33) 4-Chloroaniline	8.239	127	483982	39.950	ng	100
34) Hexachlorobutadiene	8.316	225	271315	39.967	ng	100
35) Caprolactam	8.610	113	126585	40.772	ng	100
36) 4-Chloro-3-methylphenol	8.710	107	433727	40.116	ng	100
37) 2-Methylnaphthalene	8.886	142	856111	39.345	ng	100
38) 1-Methylnaphthalene	8.986	142	842638	39.471	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	407511	39.776	ng	100
41) Hexachlorocyclopentadiene	9.039	237	150540	42.229	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	293577	40.474	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	304213	40.651	ng	100
46) 1,1'-Biphenyl	9.351	154	1047094	39.608	ng	100
47) 2-Chloronaphthalene	9.375	162	843452	39.613	ng	100
48) 2-Nitroaniline	9.463	65	277165	42.562	ng	100
49) Acenaphthylene	9.792	152	1226273	39.837	ng	100
50) Dimethylphthalate	9.651	163	939670	39.726	ng	100
51) 2,6-Dinitrotoluene	9.710	165	212956	41.580	ng	100
52) Acenaphthene	9.963	154	792756	39.811	ng	100
53) 3-Nitroaniline	9.874	138	222098	42.051	ng	100
54) 2,4-Dinitrophenol	9.974	184	76948	39.739	ng	100
55) Dibenzofuran	10.133	168	1128670	39.505	ng	100
56) 4-Nitrophenol	10.022	139	175913	43.292	ng	100
57) 2,4-Dinitrotoluene	10.110	165	270604	42.965	ng	100
58) Fluorene	10.474	166	843048	38.742	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	235175	40.087	ng	100
60) Diethylphthalate	10.351	149	922384	39.715	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	432393	39.347	ng	100
62) 4-Nitroaniline	10.486	138	208926	41.884	ng	100
63) Azobenzene	10.627	77	991989	40.289	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	115824	42.799	ng	100
66) n-Nitrosodiphenylamine	10.586	169	789753	39.772	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	268509	39.285	ng	100
68) Hexachlorobenzene	11.021	284	306919	39.927	ng	100
69) Atrazine	11.110	200	232078	43.145	ng	100
70) Pentachlorophenol	11.210	266	201559	43.204	ng	100
71) Phenanthrene	11.439	178	1238155	39.508	ng	100
72) Anthracene	11.492	178	1211718	39.628	ng	100
73) Carbazole	11.639	167	1122566	39.475	ng	100
74) Di-n-butylphthalate	11.974	149	1345878	40.965	ng	100
75) Fluoranthene	12.627	202	1251202	39.493	ng	100
77) Benzidine	12.745	184	252893	44.967	ng	100
78) Pyrene	12.857	202	1248309	41.241	ng	100
80) Butylbenzylphthalate	13.474	149	383831	42.297	ng	100
81) Benzo(a)anthracene	14.039	228	920698	40.901	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	267769	40.798	ng	100
83) Chrysene	14.080	228	806950	39.098	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	432750	42.504	ng	100
85) Di-n-octyl phthalate	14.651	149	785179	42.399	ng	100
87) Indeno(1,2,3-cd)pyrene	17.021	276	987345	42.039	ng	100
88) Benzo(b)fluoranthene	15.098	252	873168	39.263	ng	100
89) Benzo(k)fluoranthene	15.127	252	778470	40.589	ng	100
90) Benzo(a)pyrene	15.468	252	748507	40.905	ng	100
91) Dibenzo(a,h)anthracene	17.045	278	818044	41.752	ng	100
92) Benzo(g,h,i)perylene	17.480	276	823727	42.090	ng	100

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

ICAL Form

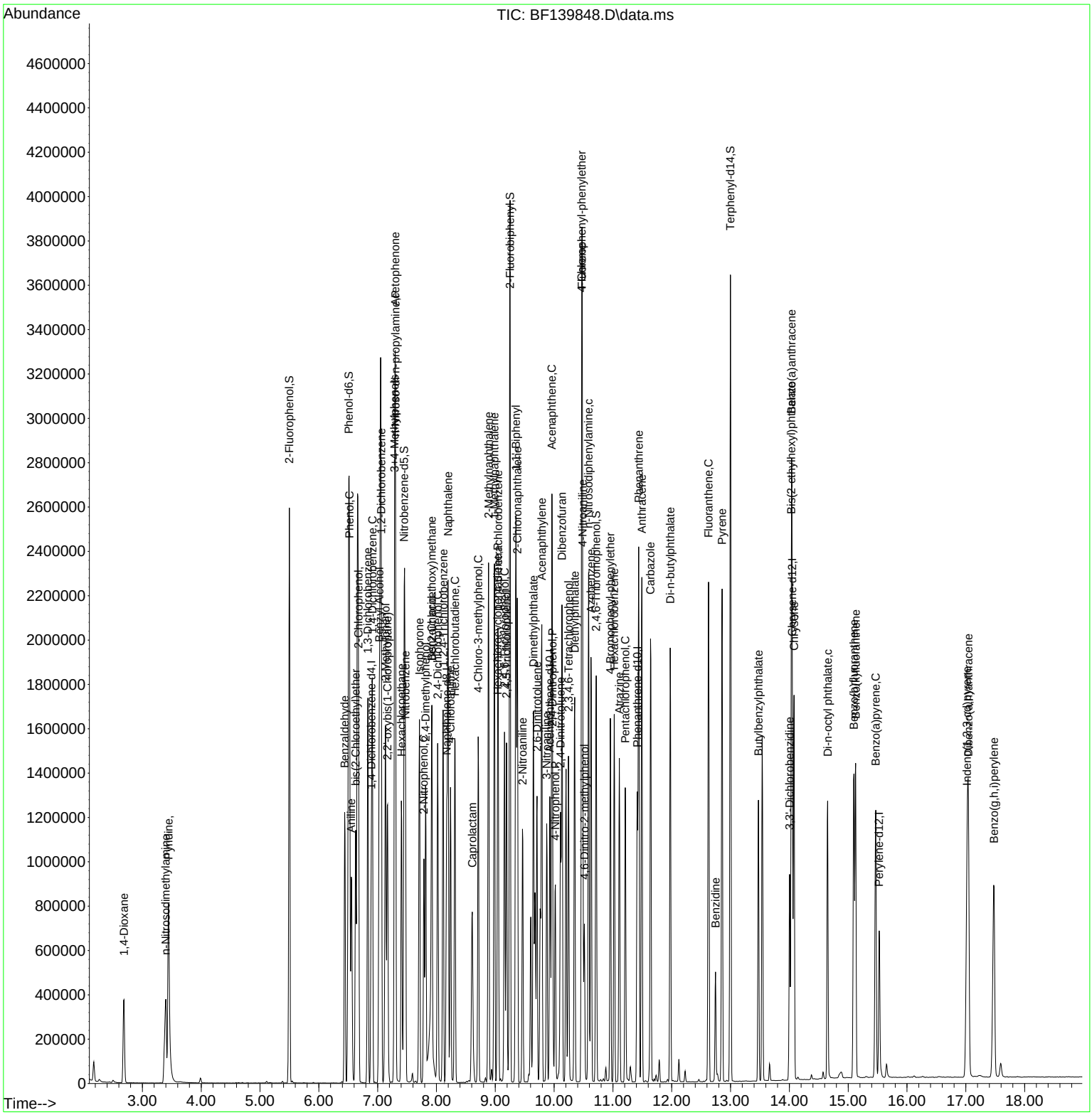
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	197235	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	739665	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	405194	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	694873	20.000	ng		0.00
76) Chrysene-d12	14.051	240	349496	20.000	ng		0.00
86) Perylene-d12	15.527	264	390757	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1162820	92.295	ng		0.00
7) Phenol-d6	6.510	99	1517079	92.972	ng		0.00
23) Nitrobenzene-d5	7.457	82	1310450	98.193	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	362330	95.600	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	2204460	89.915	ng		0.00
79) Terphenyl-d14	12.998	244	2015874	93.988	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	281572	47.933	ng		99
3) Pyridine	3.446	79	683175	46.920	ng		99
4) n-Nitrosodimethylamine	3.404	42	385387	49.264	ng		97
6) Aniline	6.557	93	725204	47.686	ng		98
8) 2-Chlorophenol	6.675	128	597810	46.414	ng		98
9) Benzaldehyde	6.439	77	430623	46.911	ng		100
10) Phenol	6.528	94	780406m	45.569	ng		
11) bis(2-Chloroethyl)ether	6.628	93	617014	47.453	ng		99
12) 1,3-Dichlorobenzene	6.834	146	686600	46.439	ng		99
13) 1,4-Dichlorobenzene	6.910	146	686616	46.483	ng		99
14) 1,2-Dichlorobenzene	7.063	146	627851	45.543	ng		99
15) Benzyl Alcohol	7.028	79	569012	47.538	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1043921	47.084	ng		100
17) 2-Methylphenol	7.134	107	519035	47.259	ng		99
18) Hexachloroethane	7.404	117	250100	47.480	ng		100
19) n-Nitroso-di-n-propyla...	7.310	70	454173	45.892	ng		99
20) 3+4-Methylphenols	7.292	107	645650	45.961	ng	#	88
22) Acetophenone	7.304	105	835908	46.140	ng		97
24) Nitrobenzene	7.475	77	707970	48.385	ng		100
25) Isophorone	7.710	82	1205277	47.583	ng		99
26) 2-Nitrophenol	7.786	139	292634	53.013	ng		99
27) 2,4-Dimethylphenol	7.822	122	439040	47.699	ng		98
28) bis(2-Chloroethoxy)met...	7.922	93	728968	47.500	ng		100
29) 2,4-Dichlorophenol	8.028	162	502930	47.971	ng		98
30) 1,2,4-Trichlorobenzene	8.116	180	550757	47.476	ng		99
31) Naphthalene	8.198	128	1770616	46.415	ng		100
32) Benzoic acid	7.933	122	426532	53.131	ng		100
33) 4-Chloroaniline	8.245	127	613822	47.189	ng		99
34) Hexachlorobutadiene	8.316	225	343002	47.058	ng		100
35) Caprolactam	8.616	113	162260	48.675	ng		98
36) 4-Chloro-3-methylphenol	8.716	107	553487	47.678	ng		99
37) 2-Methylnaphthalene	8.886	142	1085491	46.462	ng		99
38) 1-Methylnaphthalene	8.986	142	1052879	45.933	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	518960	47.474	ng		99
41) Hexachlorocyclopentadiene	9.039	237	188234	49.488	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	367373	47.468	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	385963	48.336	ng		98
46) 1,1'-Biphenyl	9.351	154	1301562	46.143	ng		99
47) 2-Chloronaphthalene	9.375	162	1061417	46.720	ng		99
48) 2-Nitroaniline	9.469	65	358283	51.564	ng		97
49) Acenaphthylene	9.792	152	1526583	46.479	ng		99
50) Dimethylphthalate	9.651	163	1187472	47.050	ng		99
51) 2,6-Dinitrotoluene	9.710	165	277023	50.693	ng		99
52) Acenaphthene	9.963	154	989603	46.576	ng		100
53) 3-Nitroaniline	9.880	138	279467	49.591	ng		100
54) 2,4-Dinitrophenol	9.980	184	102786	48.105	ng	#	18
55) Dibenzofuran	10.133	168	1407211	46.162	ng		99
56) 4-Nitrophenol	10.022	139	221410	51.068	ng		97
57) 2,4-Dinitrotoluene	10.110	165	348628	51.878	ng		97
58) Fluorene	10.480	166	1042268	44.889	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	300306	47.975	ng		99
60) Diethylphthalate	10.351	149	1180411	47.634	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	532654	45.427	ng		98
62) 4-Nitroaniline	10.492	138	266320	50.037	ng		99
63) Azobenzene	10.633	77	1231644	46.881	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	156461	55.202	ng		94
66) n-Nitrosodiphenylamine	10.586	169	987295	47.472	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	341790	47.746	ng		97
68) Hexachlorobenzene	11.027	284	376968	46.823	ng		98
69) Atrazine	11.110	200	234998	41.713	ng		99
70) Pentachlorophenol	11.216	266	252064	51.587	ng		98
71) Phenanthrene	11.439	178	1500010	45.700	ng		99
72) Anthracene	11.492	178	1478655	46.172	ng		99
73) Carbazole	11.645	167	1348098	45.263	ng		99
74) Di-n-butylphthalate	11.974	149	1602928	46.583	ng		100
75) Fluoranthene	12.627	202	1462936	44.089	ng		99
77) Benzidine	12.745	184	240940	42.388	ng		99
78) Pyrene	12.857	202	1471893	48.113	ng		100
80) Butylbenzylphthalate	13.474	149	467242	50.944	ng		100
81) Benzo(a)anthracene	14.045	228	1107235	48.667	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	326706	49.251	ng		98
83) Chrysene	14.080	228	990517	47.484	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	541828	52.655	ng		100
85) Di-n-octyl phthalate	14.651	149	1033054	55.195	ng		100
87) Indeno(1,2,3-cd)pyrene	17.027	276	1268552	50.463	ng		100
88) Benzo(b)fluoranthene	15.098	252	1079928	45.369	ng		100
89) Benzo(k)fluoranthene	15.127	252	1006425	49.026	ng		99
90) Benzo(a)pyrene	15.468	252	951346	48.573	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	1058119	50.456	ng		100
92) Benzo(g,h,i)perylene	17.480	276	1055618	50.394	ng		99

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

ICAL Form

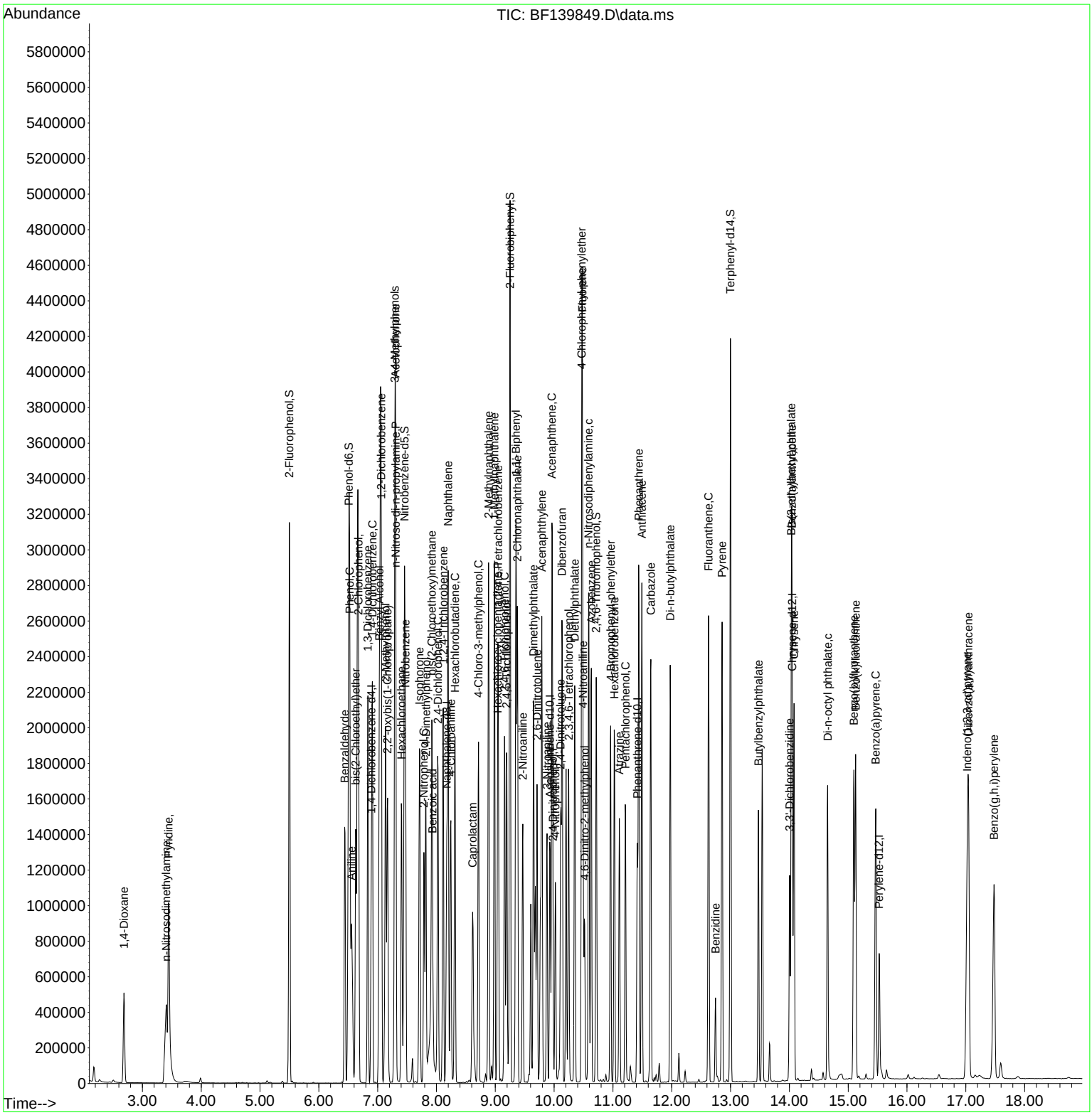
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	189346	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	712033	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	389299	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	667372	20.000	ng	0.00
76) Chrysene-d12	14.057	240	337032	20.000	ng	0.00
86) Perylene-d12	15.527	264	377203	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1347774	111.432	ng	0.00
7) Phenol-d6	6.516	99	1748088	111.592	ng	0.00
23) Nitrobenzene-d5	7.457	82	1523975	118.624	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	420891	115.586	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	2475821	105.106	ng	0.00
79) Terphenyl-d14	13.004	244	2266127	109.563	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.687	88	330127	58.541	ng	98
3) Pyridine	3.446	79	798529	57.127	ng	99
4) n-Nitrosodimethylamine	3.410	42	451209	60.081	ng	98
6) Aniline	6.551	93	840113	57.544	ng	100
8) 2-Chlorophenol	6.675	128	693549	56.091	ng	96
9) Benzaldehyde	6.440	77	484510	54.980	ng	99
10) Phenol	6.528	94	909456m	55.317	ng	
11) bis(2-Chloroethyl)ether	6.628	93	709494	56.838	ng	99
12) 1,3-Dichlorobenzene	6.834	146	790296	55.679	ng	98
13) 1,4-Dichlorobenzene	6.910	146	790397	55.738	ng	99
14) 1,2-Dichlorobenzene	7.063	146	719470	54.363	ng	99
15) Benzyl Alcohol	7.028	79	650971	56.651	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1201584	56.453	ng	99
17) 2-Methylphenol	7.134	107	603882	57.276	ng	99
18) Hexachloroethane	7.404	117	290250	57.398	ng	100
19) n-Nitroso-di-n-propyla...	7.310	70	526516	55.418	ng	99
20) 3+4-Methylphenols	7.293	107	738542	54.764	ng	93
22) Acetophenone	7.304	105	969975	55.618	ng	99
24) Nitrobenzene	7.475	77	828015	58.785	ng	98
25) Isophorone	7.716	82	1409786	57.816	ng	100
26) 2-Nitrophenol	7.787	139	344300	64.793	ng	100
27) 2,4-Dimethylphenol	7.822	122	500332	56.468	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	832755	56.369	ng	99
29) 2,4-Dichlorophenol	8.028	162	584871	57.952	ng	99
30) 1,2,4-Trichlorobenzene	8.116	180	635946	56.947	ng	99
31) Naphthalene	8.198	128	2016330	54.907	ng	99
32) Benzoic acid	7.945	122	502169	64.980	ng	98
33) 4-Chloroaniline	8.245	127	695566	55.548	ng	99
34) Hexachlorobutadiene	8.316	225	399483	56.934	ng	99
35) Caprolactam	8.622	113	188948	58.880	ng	97
36) 4-Chloro-3-methylphenol	8.716	107	646732	57.872	ng	100
37) 2-Methylnaphthalene	8.887	142	1245977	55.401	ng	99
38) 1-Methylnaphthalene	8.987	142	1211981	54.926	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	591461	56.315	ng	100
41) Hexachlorocyclopentadiene	9.039	237	216567	59.262	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	447702	60.209	ng	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	431080	56.191	ng		99
46) 1,1'-Biphenyl	9.351	154	1474193	54.396	ng		99
47) 2-Chloronaphthalene	9.375	162	1214856	55.657	ng		98
48) 2-Nitroaniline	9.469	65	423080	63.375	ng		97
49) Acenaphthylene	9.792	152	1758248	55.718	ng		99
50) Dimethylphthalate	9.657	163	1358812	56.037	ng		100
51) 2,6-Dinitrotoluene	9.710	165	320076	60.963	ng		97
52) Acenaphthene	9.969	154	1148095	56.242	ng		98
53) 3-Nitroaniline	9.881	138	328790	60.726	ng		98
54) 2,4-Dinitrophenol	9.981	184	131611	61.938	ng	#	29
55) Dibenzofuran	10.139	168	1605572	54.819	ng		100
56) 4-Nitrophenol	10.028	139	256728	61.631	ng		100
57) 2,4-Dinitrotoluene	10.116	165	410361	63.558	ng		99
58) Fluorene	10.481	166	1192018	53.435	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	342475	56.946	ng		99
60) Diethylphthalate	10.351	149	1355992	56.954	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	606730	53.858	ng		98
62) 4-Nitroaniline	10.498	138	314525	61.507	ng		98
63) Azobenzene	10.633	77	1415762	56.090	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	184974	67.951	ng		99
66) n-Nitrosodiphenylamine	10.592	169	1122831	56.214	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	392570	57.100	ng		98
68) Hexachlorobenzene	11.028	284	442187	57.187	ng		98
69) Atrazine	11.116	200	307149	56.767	ng		99
70) Pentachlorophenol	11.216	266	289014	61.587	ng		99
71) Phenanthrene	11.439	178	1721763	54.618	ng		99
72) Anthracene	11.492	178	1667221	54.206	ng		99
73) Carbazole	11.645	167	1545085	54.015	ng		99
74) Di-n-butylphthalate	11.975	149	1819929	55.069	ng		100
75) Fluoranthene	12.627	202	1671405	52.448	ng		99
77) Benzidine	12.745	184	205548	37.499	ng		99
78) Pyrene	12.857	202	1667489	56.522	ng		99
80) Butylbenzylphthalate	13.474	149	537039	60.719	ng		98
81) Benzo(a)anthracene	14.045	228	1250382	56.992	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	386072	60.353	ng		99
83) Chrysene	14.080	228	1163808	57.855	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	632594	63.749	ng		100
85) Di-n-octyl phthalate	14.651	149	1220737	67.634	ng		100
87) Indeno(1,2,3-cd)pyrene	17.027	276	1500084	61.817	ng		99
88) Benzo(b)fluoranthene	15.098	252	1402395	61.033	ng		100
89) Benzo(k)fluoranthene	15.127	252	1051303	53.053	ng		100
90) Benzo(a)pyrene	15.468	252	1129942	59.764	ng		100
91) Dibenzo(a,h)anthracene	17.051	278	1228124	60.667	ng		99
92) Benzo(g,h,i)perylene	17.486	276	1238955	61.272	ng		100

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

ICAL Form

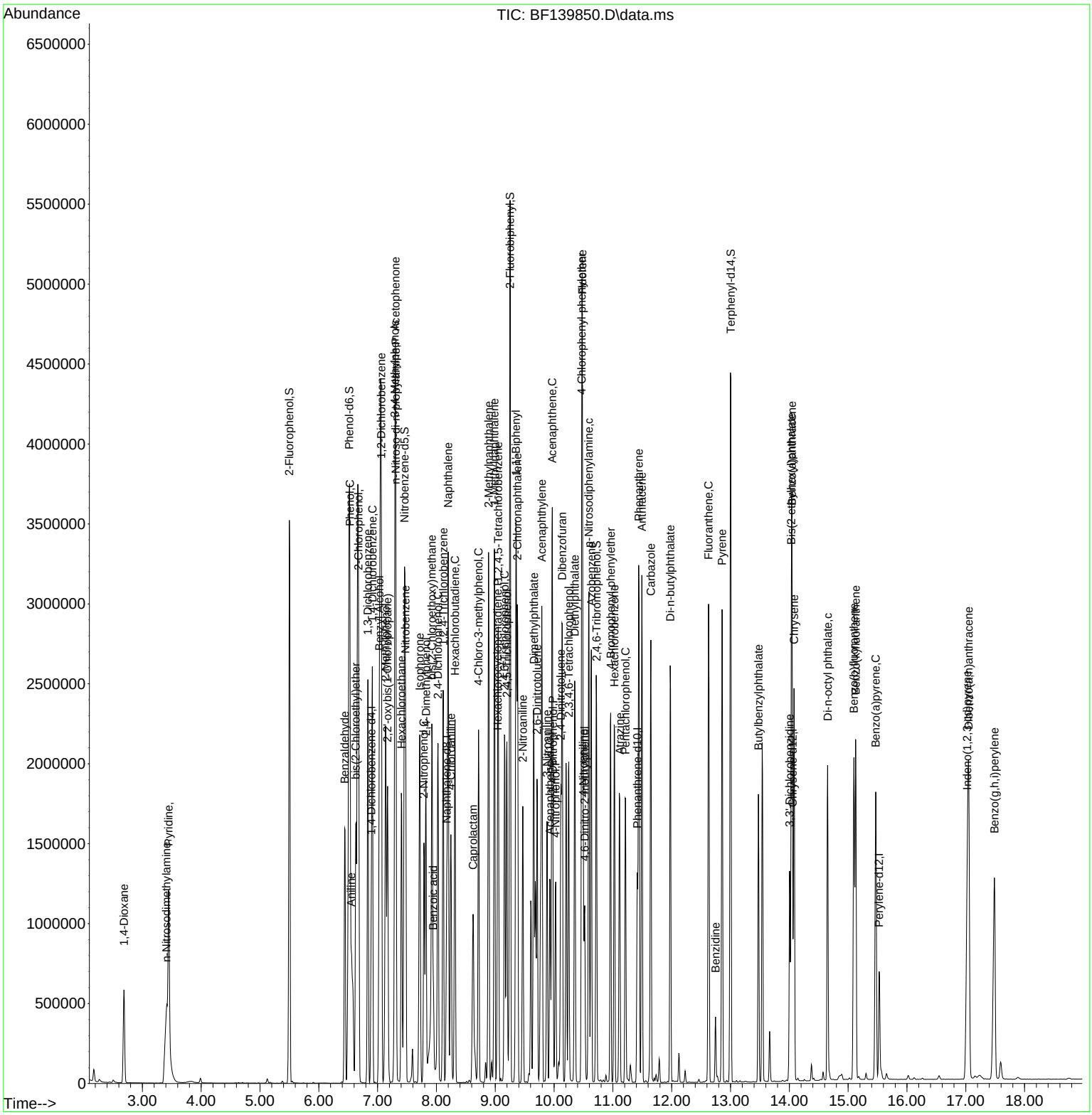
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	187399	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	693285	20.000	ng		0.00
39) Acenaphthene-d10	9.933	164	377723	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	633721	20.000	ng		0.00
76) Chrysene-d12	14.057	240	323513	20.000	ng		0.00
86) Perylene-d12	15.533	264	374491	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	1657822	138.491	ng		0.00
7) Phenol-d6	6.522	99	2147173	138.492	ng		0.01
23) Nitrobenzene-d5	7.463	82	1897374	151.683	ng		0.01
42) 2,4,6-Tribromophenol	10.722	330	522350	147.845	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	2941186	128.689	ng		0.00
79) Terphenyl-d14	13.004	244	2634676	132.704	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.693	88	410806	73.604	ng		99
3) Pyridine	3.452	79	993777	71.834	ng		99
4) n-Nitrosodimethylamine	3.422	42	567647	76.370	ng		98
6) Aniline	6.598	93	992375m	68.680	ng		
8) 2-Chlorophenol	6.681	128	836233	68.333	ng		98
9) Benzaldehyde	6.445	77	554983	63.632	ng		99
10) Phenol	6.534	94	1125558	69.172	ng		95
11) bis(2-Chloroethyl)ether	6.634	93	886786	71.780	ng		99
12) 1,3-Dichlorobenzene	6.834	146	969627	69.024	ng		98
13) 1,4-Dichlorobenzene	6.910	146	968088	68.978	ng		99
14) 1,2-Dichlorobenzene	7.069	146	861333	65.758	ng		99
15) Benzyl Alcohol	7.034	79	803101	70.616	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1472196	69.886	ng		99
17) 2-Methylphenol	7.140	107	752459	72.109	ng		99
18) Hexachloroethane	7.410	117	357637	71.459	ng		97
19) n-Nitroso-di-n-propyla...	7.316	70	651048	69.238	ng		99
20) 3+4-Methylphenols	7.298	107	878987	65.856	ng	#	85
22) Acetophenone	7.310	105	1149288	67.682	ng		98
24) Nitrobenzene	7.481	77	1025571	74.779	ng		99
25) Isophorone	7.722	82	1767234	74.436	ng		100
26) 2-Nitrophenol	7.792	139	434755	84.029	ng		99
27) 2,4-Dimethylphenol	7.822	122	619136	71.765	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	1022457	71.081	ng		100
29) 2,4-Dichlorophenol	8.028	162	711892	72.445	ng		99
30) 1,2,4-Trichlorobenzene	8.116	180	774108	71.194	ng		99
31) Naphthalene	8.198	128	2427578	67.894	ng		99
32) Benzoic acid	7.963	122	651887	86.634	ng		99
33) 4-Chloroaniline	8.251	127	849601	69.684	ng		99
34) Hexachlorobutadiene	8.316	225	490203	71.753	ng		99
35) Caprolactam	8.634	113	239184	76.550	ng		99
36) 4-Chloro-3-methylphenol	8.722	107	794640	73.031	ng		99
37) 2-Methylnaphthalene	8.886	142	1487841	67.944	ng		100
38) 1-Methylnaphthalene	8.986	142	1457890	67.858	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	712936	69.962	ng		100
41) Hexachlorocyclopentadiene	9.039	237	256007	72.201	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	535533	74.228	ng		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	542663	72.904	ng		99
46) 1,1'-Biphenyl	9.357	154	1753952	66.703	ng		99
47) 2-Chloronaphthalene	9.381	162	1470012	69.411	ng		99
48) 2-Nitroaniline	9.469	65	527552	81.447	ng		99
49) Acenaphthylene	9.792	152	2106357	68.796	ng		99
50) Dimethylphthalate	9.657	163	1676969	71.277	ng		99
51) 2,6-Dinitrotoluene	9.716	165	393234	77.193	ng		99
52) Acenaphthene	9.969	154	1378724	69.610	ng		99
53) 3-Nitroaniline	9.886	138	387157	73.697	ng		96
54) 2,4-Dinitrophenol	9.986	184	169167	79.932	ng	#	1
55) Dibenzofuran	10.139	168	1930402	67.930	ng		99
56) 4-Nitrophenol	10.033	139	314170	77.732	ng		99
57) 2,4-Dinitrotoluene	10.116	165	510703	81.523	ng		97
58) Fluorene	10.480	166	1426794	65.920	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	424598	72.764	ng		99
60) Diethylphthalate	10.357	149	1631842	70.641	ng		100
61) 4-Chlorophenyl-phenyle...	10.475	204	730565	66.837	ng		100
62) 4-Nitroaniline	10.504	138	383383	77.270	ng		98
63) Azobenzene	10.633	77	1727533	70.539	ng		99
65) 4,6-Dinitro-2-methylph...	10.528	198	235323	91.037	ng		98
66) n-Nitrosodiphenylamine	10.592	169	1350839	71.220	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	477995	73.216	ng		99
68) Hexachlorobenzene	11.028	284	536511	73.070	ng		98
69) Atrazine	11.116	200	382294	74.406	ng		99
70) Pentachlorophenol	11.216	266	354105	79.464	ng		99
71) Phenanthrene	11.445	178	2045577	68.336	ng		100
72) Anthracene	11.492	178	1995750	68.333	ng		99
73) Carbazole	11.645	167	1818340	66.943	ng		99
74) Di-n-butylphthalate	11.980	149	2153517	68.623	ng		100
75) Fluoranthene	12.627	202	1955847	64.632	ng		99
77) Benzidine	12.745	184	318678	60.567	ng		99
78) Pyrene	12.857	202	1935829	68.360	ng		99
80) Butylbenzylphthalate	13.474	149	664532	78.274	ng		98
81) Benzo(a)anthracene	14.045	228	1512920	71.840	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	496976	80.937	ng		98
83) Chrysene	14.080	228	1424522	73.774	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	794387	83.399	ng		99
85) Di-n-octyl phthalate	14.651	149	1534331	88.561	ng		100
87) Indeno(1,2,3-cd)pyrene	17.033	276	1877616	77.935	ng		99
88) Benzo(b)fluoranthene	15.098	252	1664856	72.980	ng		99
89) Benzo(k)fluoranthene	15.133	252	1419158	72.134	ng		99
90) Benzo(a)pyrene	15.474	252	1419026	75.598	ng		100
91) Dibenzo(a,h)anthracene	17.057	278	1552091	77.226	ng		99
92) Benzo(g,h,i)perylene	17.492	276	1550622	77.240	ng		100

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

ICAL Form

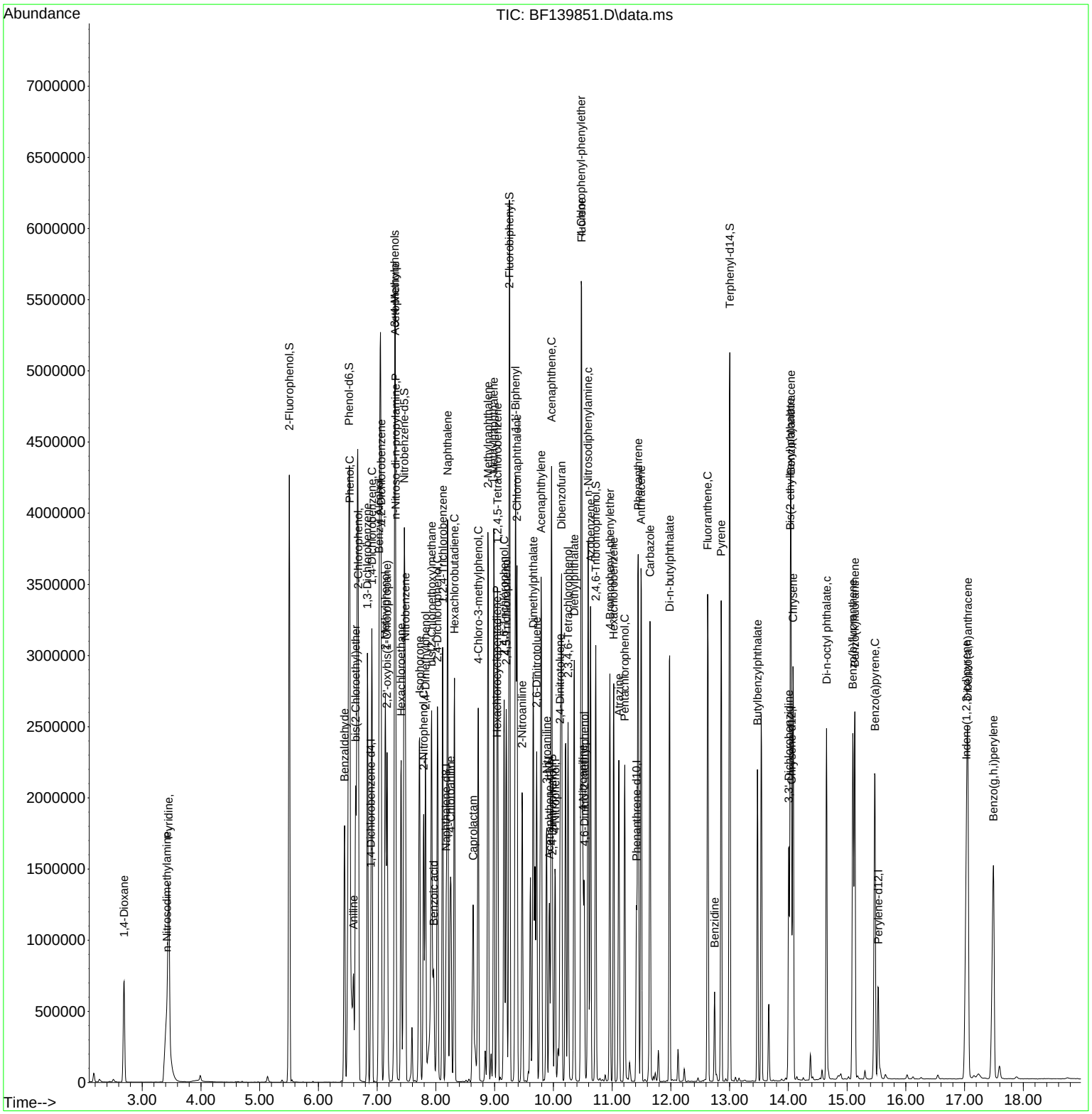
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024



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: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/21/2024 09:57

Lab File ID: BF139892.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.253		-2.0	
Benzaldehyde	0.931	0.814		-12.6	
Phenol-d6	1.655	1.618		-2.2	
Phenol	1.706	1.701		-0.3	20.0
bis(2-Chloroethyl)ether	1.319	1.298		-1.6	
2-Chlorophenol	1.306	1.302		-0.3	
2-Methylphenol	1.114	1.099		-1.3	
2,2-oxybis(1-Chloropropane)	2.248	2.201		-2.1	
Acetophenone	0.490	0.481		-1.8	
3+4-Methylphenols	1.424	1.398		-1.8	
n-Nitroso-di-n-propylamine	1.004	0.965	0.050	-3.9	
Nitrobenzene-d5	0.361	0.370		2.5	
Hexachloroethane	0.534	0.539		0.9	
Nitrobenzene	0.396	0.395		-0.3	
Isophorone	0.685	0.677		-1.2	
2-Nitrophenol	0.149	0.157		5.4	20.0
2,4-Dimethylphenol	0.249	0.243		-2.4	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.286		1.1	20.0
Naphthalene	1.031	1.026		-0.5	
4-Chloroaniline	0.352	0.354		0.6	
Hexachlorobutadiene	0.197	0.202		2.5	20.0
Caprolactam	0.090	0.085		-5.6	
4-Chloro-3-methylphenol	0.314	0.311		-1.0	20.0
2-Methylnaphthalene	0.632	0.627		-0.8	
Hexachlorocyclopentadiene	0.188	0.209	0.050	11.2	
2,4,6-Trichlorophenol	0.382	0.378		-1.0	20.0
2-Fluorobiphenyl	1.210	1.182		-2.3	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
1,1-Biphenyl	1.392	1.400		0.6	
2-Chloronaphthalene	1.121	1.125		0.4	
2-Nitroaniline	0.343	0.354		3.2	
Dimethylphthalate	1.246	1.237		-0.7	
Acenaphthylene	1.621	1.614		-0.4	
2,6-Dinitrotoluene	0.270	0.275		1.9	
3-Nitroaniline	0.278	0.282		1.4	
Acenaphthene	1.049	1.050		0.1	20.0
2,4-Dinitrophenol	0.093	0.104	0.050	11.8	
4-Nitrophenol	0.214	0.218	0.050	1.9	

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/21/2024 09:57

Lab File ID: BF139892.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.506		0.1	
2,4-Dinitrotoluene	0.332	0.343		3.3	
Diethylphthalate	1.223	1.206		-1.4	
4-Chlorophenyl-phenylether	0.579	0.575		-0.7	
Fluorene	1.146	1.118		-2.4	
4-Nitroaniline	0.263	0.269		2.3	
4,6-Dinitro-2-methylphenol	0.082	0.091		11.0	
n-Nitrosodiphenylamine	0.599	0.601		0.3	20.0
2,4,6-Tribromophenol	0.187	0.195		4.3	
4-Bromophenyl-phenylether	0.206	0.215		4.4	
Hexachlorobenzene	0.232	0.240		3.4	
Atrazine	0.162	0.162		0.0	
Pentachlorophenol	0.141	0.155		9.9	20.0
Phenanthrene	0.945	0.931		-1.5	
Anthracene	0.922	0.920		-0.2	
Carbazole	0.857	0.827		-3.5	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.907		-5.0	20.0
Pyrene	1.751	1.911		9.1	
Terphenyl-d14	1.227	1.303		6.2	
Butylbenzylphthalate	0.525	0.537		2.3	
3,3-Dichlorobenzidine	0.380	0.390		2.6	
Benzo(a)anthracene	1.302	1.326		1.8	
Chrysene	1.194	1.209		1.3	
Bis(2-ethylhexyl)phthalate	0.589	0.666		13.1	
Di-n-octyl phthalate	1.071	1.261		17.7	20.0
Benzo(b)fluoranthene	1.218	1.234		1.3	
Benzo(k)fluoranthene	1.051	0.938		-10.8	
Benzo(a)pyrene	1.002	1.009		0.7	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.495		16.2	
Dibenzo(a,h)anthracene	1.073	1.250		16.5	
Benzo(g,h,i)perylene	1.072	1.278		19.2	
1,2,4,5-Tetrachlorobenzene	0.540	0.552		2.2	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.313		1.3	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF139892.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	170135	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	645389	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	355580	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	607097	20.000	ng	0.00
76) Chrysene-d12	14.057	240	292847	20.000	ng	0.00
86) Perylene-d12	15.533	264	323975	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	852833	78.473	ng	0.00
7) Phenol-d6	6.510	99	1101025	78.222	ng	0.00
23) Nitrobenzene-d5	7.451	82	956226	82.117	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	276916	83.258	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1681335	78.147	ng	0.00
79) Terphenyl-d14	12.998	244	1526835	84.957	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	198660	39.206	ng	97
3) Pyridine	3.434	79	486923	38.768	ng	99
4) n-Nitrosodimethylamine	3.381	42	259266	38.421	ng	98
6) Aniline	6.557	93	525691	40.073	ng	98
8) 2-Chlorophenol	6.675	128	442965	39.870	ng	99
9) Benzaldehyde	6.439	77	277125	34.998	ng	99
10) Phenol	6.522	94	578952m	39.897	ng	
11) bis(2-Chloroethyl)ether	6.628	93	441519	39.365	ng	99
12) 1,3-Dichlorobenzene	6.834	146	511517	40.108	ng	99
13) 1,4-Dichlorobenzene	6.910	146	508709	39.925	ng	99
14) 1,2-Dichlorobenzene	7.063	146	474456	39.898	ng	99
15) Benzyl Alcohol	7.028	79	413380	40.037	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	748982	39.162	ng	99
17) 2-Methylphenol	7.133	107	374026	39.480	ng	99
18) Hexachloroethane	7.404	117	183296	40.341	ng	99
19) n-Nitroso-di-n-propyla...	7.304	70	328439	38.473	ng	98
20) 3+4-Methylphenols	7.286	107	475818	39.267	ng	99
22) Acetophenone	7.298	105	621128	39.293	ng	99
24) Nitrobenzene	7.475	77	509579	39.913	ng	99
25) Isophorone	7.710	82	873343	39.515	ng	100
26) 2-Nitrophenol	7.786	139	202148	41.970	ng	99
27) 2,4-Dimethylphenol	7.816	122	313417	39.025	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	539718	40.306	ng	100
29) 2,4-Dichlorophenol	8.022	162	369566	40.400	ng	99
30) 1,2,4-Trichlorobenzene	8.116	180	408787	40.386	ng	100
31) Naphthalene	8.198	128	1323858	39.773	ng	100
32) Benzoic acid	7.922	122	286875	40.954	ng	96
33) 4-Chloroaniline	8.239	127	457382	40.298	ng	99
34) Hexachlorobutadiene	8.316	225	261109	41.056	ng	100
35) Caprolactam	8.610	113	110005	37.820	ng	94
36) 4-Chloro-3-methylphenol	8.710	107	401252	39.613	ng	99
37) 2-Methylnaphthalene	8.886	142	808847	39.678	ng	100
38) 1-Methylnaphthalene	8.986	142	792930	39.646	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	392227	40.887	ng	100
41) Hexachlorocyclopentadiene	9.039	237	148729	44.558	ng	98
43) 2,4,6-Trichlorophenol	9.157	196	268594	39.547	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	295085	42.112	ng		99
46) 1,1'-Biphenyl	9.351	154	995589	40.220	ng		100
47) 2-Chloronaphthalene	9.375	162	799914	40.122	ng		100
48) 2-Nitroaniline	9.469	65	251607	41.264	ng		94
49) Acenaphthylene	9.792	152	1148104	39.833	ng		99
50) Dimethylphthalate	9.651	163	879827	39.724	ng		100
51) 2,6-Dinitrotoluene	9.710	165	195500	40.767	ng		99
52) Acenaphthene	9.963	154	746612	40.043	ng		99
53) 3-Nitroaniline	9.874	138	200727	40.589	ng		100
54) 2,4-Dinitrophenol	9.980	184	74172	40.717	ng	#	8
55) Dibenzofuran	10.133	168	1071125	40.040	ng		99
56) 4-Nitrophenol	10.022	139	155361	40.833	ng		99
57) 2,4-Dinitrotoluene	10.110	165	244072	41.387	ng		99
58) Fluorene	10.480	166	794988	39.017	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	222700	40.541	ng		98
60) Diethylphthalate	10.351	149	857886	39.449	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	409196	39.768	ng		99
62) 4-Nitroaniline	10.486	138	191601	41.022	ng		96
63) Azobenzene	10.627	77	899920	39.034	ng		99
65) 4,6-Dinitro-2-methylph...	10.516	198	110117	44.468	ng		96
66) n-Nitrosodiphenylamine	10.586	169	730047	40.178	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	260610	41.669	ng		95
68) Hexachlorobenzene	11.027	284	291695	41.470	ng		95
69) Atrazine	11.110	200	197008	40.026	ng		99
70) Pentachlorophenol	11.216	266	188257	44.099	ng		98
71) Phenanthrene	11.439	178	1130558	39.424	ng		99
72) Anthracene	11.492	178	1117198	39.929	ng		100
73) Carbazole	11.645	167	1004203	38.591	ng		99
74) Di-n-butylphthalate	11.974	149	1148788	38.212	ng		99
75) Fluoranthene	12.627	202	1100841	37.973	ng		99
77) Benzidine	12.745	184	191523	39.773	ng		98
78) Pyrene	12.857	202	1119226	43.662	ng		100
80) Butylbenzylphthalate	13.474	149	314526	40.927	ng		99
81) Benzo(a)anthracene	14.045	228	776819	40.749	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	228522	41.114	ng		99
83) Chrysene	14.080	228	708340	40.526	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	390286	45.265	ng		99
85) Di-n-octyl phthalate	14.651	149	738371	47.081	ng		99
87) Indeno(1,2,3-cd)pyrene	17.027	276	968452	46.466	ng		99
88) Benzo(b)fluoranthene	15.098	252	799312	40.502	ng		100
89) Benzo(k)fluoranthene	15.127	252	607856	35.714	ng		100
90) Benzo(a)pyrene	15.468	252	653872	40.266	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	809776	46.574	ng		99
92) Benzo(g,h,i)perylene	17.486	276	828102	47.682	ng		99

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

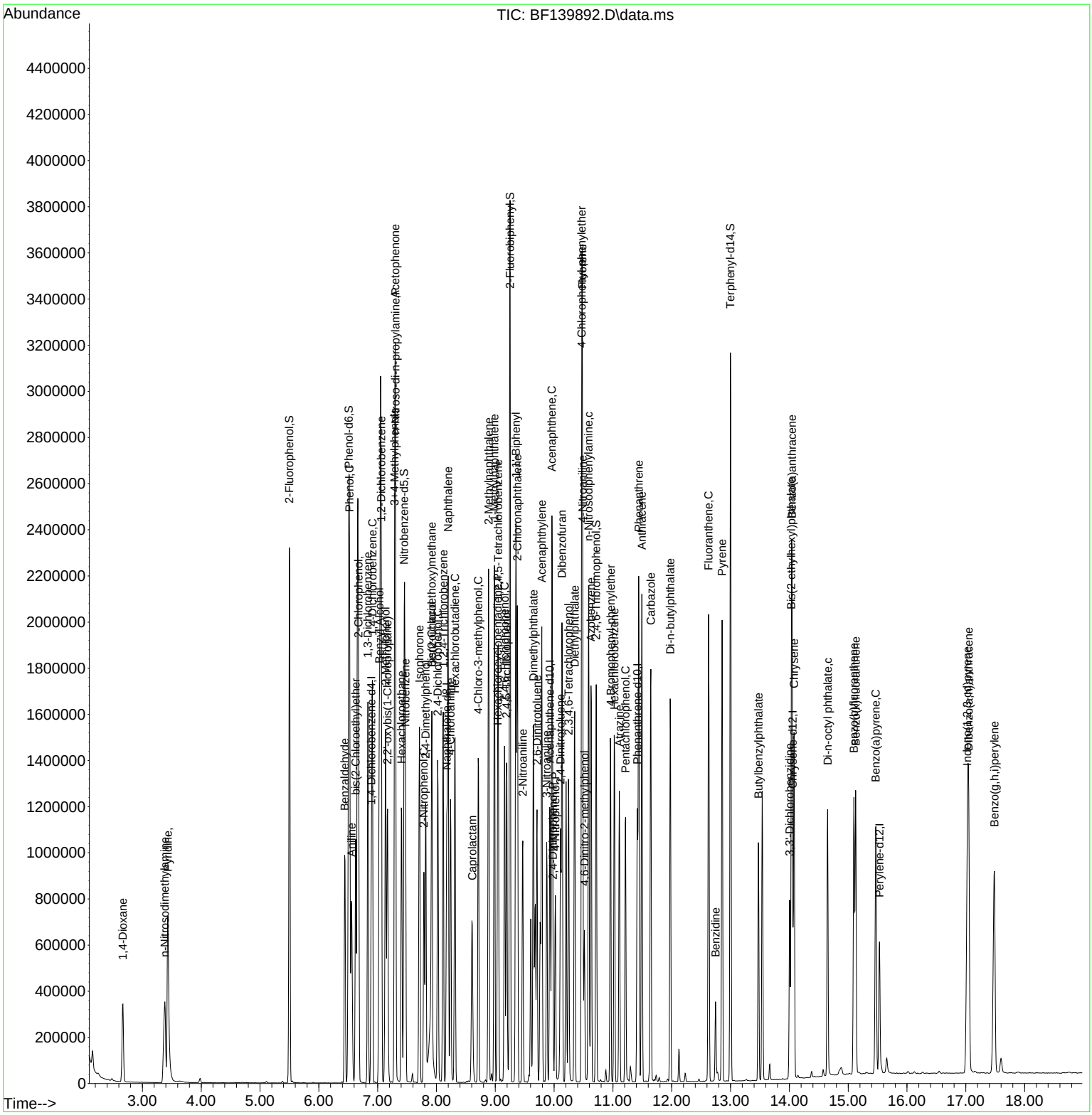
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :mohammad ahmed 10/23/2024



Sample Results: **BF139892.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
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Instrument :
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LabSampleId :
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Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2		1,4-Dioxane	0.596	0.584	2.0	92	-0.02
3		Pyridine	1.476	1.431	3.0	89	-0.01
4		n-Nitrosodimethylamine	0.793	0.762	3.9	88	-0.02
5	S	2-Fluorophenol	1.278	1.253	2.0	92	0.00
6		Aniline	1.542	1.545	-0.2	91	0.00
7	S	Phenol-d6	1.655	1.618	2.2	92	0.00
8		2-Chlorophenol	1.306	1.302	0.3	93	0.00
9		Benzaldehyde	0.931	0.814	12.6	81	0.00
10	C	Phenol	1.706	1.701	0.3	93	0.00
11		bis(2-Chloroethyl)ether	1.319	1.298	1.6	94	0.00
12		1,3-Dichlorobenzene	1.499	1.503	-0.3	94	0.00
13	C	1,4-Dichlorobenzene	1.498	1.495	0.2	94	0.00
14		1,2-Dichlorobenzene	1.398	1.394	0.3	95	0.00
15		Benzyl Alcohol	1.214	1.215	-0.1	94	0.00
16		2,2'-oxybis(1-Chloropropane	2.248	2.201	2.1	91	0.00
17		2-Methylphenol	1.114	1.099	1.3	92	0.00
18		Hexachloroethane	0.534	0.539	-0.9	93	0.00
19	P	n-Nitroso-di-n-propylamine	1.004	0.965	3.9	93	0.00
20		3+4-Methylphenols	1.424	1.398	1.8	92	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
22		Acetophenone	0.490	0.481	1.8	94	0.00
23	S	Nitrobenzene-d5	0.361	0.370	-2.5	94	0.00
24		Nitrobenzene	0.396	0.395	0.3	92	0.00
25		Isophorone	0.685	0.677	1.2	93	0.00
26	C	2-Nitrophenol	0.149	0.157	-5.4	93	0.00
27		2,4-Dimethylphenol	0.249	0.243	2.4	92	0.00
28		bis(2-Chloroethoxy)methane	0.415	0.418	-0.7	95	0.00
29	C	2,4-Dichlorophenol	0.283	0.286	-1.1	95	0.00
30		1,2,4-Trichlorobenzene	0.314	0.317	-1.0	94	0.00
31		Naphthalene	1.031	1.026	0.5	94	0.00
32		Benzoic acid	0.217	0.222	-2.3	95	0.00
33		4-Chloroaniline	0.352	0.354	-0.6	95	0.00
34	C	Hexachlorobutadiene	0.197	0.202	-2.5	96	0.00
35		Caprolactam	0.090	0.085	5.6	87	0.00
36	C	4-Chloro-3-methylphenol	0.314	0.311	1.0	93	0.00
37		2-Methylnaphthalene	0.632	0.627	0.8	94	0.00
38		1-Methylnaphthalene	0.620	0.614	1.0	94	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	94	0.00
40		1,2,4,5-Tetrachlorobenzene	0.540	0.552	-2.2	96	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.209	-11.2	99	0.00
42	S	2,4,6-Tribromophenol	0.187	0.195	-4.3	97	0.00
43	C	2,4,6-Trichlorophenol	0.382	0.378	1.0	91	0.00
44		2,4,5-Trichlorophenol	0.394	0.415	-5.3	97	0.00
45	S	2-Fluorobiphenyl	1.210	1.182	2.3	95	0.00
46		1,1'-Biphenyl	1.392	1.400	-0.6	95	0.00
47		2-Chloronaphthalene	1.121	1.125	-0.4	95	0.00

Sample Results: **BF139892.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.343	0.354	-3.2	91	0.00
49		Acenaphthylene	1.621	1.614	0.4	94	0.00
50		Dimethylphthalate	1.246	1.237	0.7	94	0.00
51		2,6-Dinitrotoluene	0.270	0.275	-1.9	92	0.00
52	C	Acenaphthene	1.049	1.050	-0.1	94	0.00
53		3-Nitroaniline	0.278	0.282	-1.4	90	0.00
54	P	2,4-Dinitrophenol	0.093	0.104	-11.8	96	0.00
55		Dibenzofuran	1.505	1.506	-0.1	95	0.00
56	P	4-Nitrophenol	0.214	0.218	-1.9	88	0.00
57		2,4-Dinitrotoluene	0.332	0.343	-3.3	90	0.00
58		Fluorene	1.146	1.118	2.4	94	0.00
59		2,3,4,6-Tetrachlorophenol	0.309	0.313	-1.3	95	0.00
60		Diethylphthalate	1.223	1.206	1.4	93	0.00
61		4-Chlorophenyl-phenylether	0.579	0.575	0.7	95	0.00
62		4-Nitroaniline	0.263	0.269	-2.3	92	0.00
63		Azobenzene	1.297	1.265	2.5	91	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00
65		4,6-Dinitro-2-methylphenol	0.082	0.091	-11.0	95	0.00
66	c	n-Nitrosodiphenylamine	0.599	0.601	-0.3	92	0.00
67		4-Bromophenyl-phenylether	0.206	0.215	-4.4	97	0.00
68		Hexachlorobenzene	0.232	0.240	-3.4	95	0.00
69		Atrazine	0.162	0.162	0.0	85	0.00
70	C	Pentachlorophenol	0.141	0.155	-9.9	93	0.00
71		Phenanthrene	0.945	0.931	1.5	91	0.00
72		Anthracene	0.922	0.920	0.2	92	0.00
73		Carbazole	0.857	0.827	3.5	89	0.00
74		Di-n-butylphthalate	0.990	0.946	4.4	85	0.00
75	C	Fluoranthene	0.955	0.907	5.0	88	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	85	0.00
77		Benzidine	0.329	0.327	0.6	76	0.00
78		Pyrene	1.751	1.911	-9.1	90	0.00
79	S	Terphenyl-d14	1.227	1.303	-6.2	89	0.00
80		Butylbenzylphthalate	0.525	0.537	-2.3	82	0.00
81		Benzo(a)anthracene	1.302	1.326	-1.8	84	0.00
82		3,3'-Dichlorobenzidine	0.380	0.390	-2.6	85	0.00
83		Chrysene	1.194	1.209	-1.3	88	0.00
84		Bis(2-ethylhexyl)phthalate	0.589	0.666	-13.1	90	0.00
85	c	Di-n-octyl phthalate	1.071	1.261	-17.7	94	0.00
86	I	Perylene-d12	1.000	1.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	1.287	1.495	-16.2	98	0.00
88		Benzo(b)fluoranthene	1.218	1.234	-1.3	92	0.00
89		Benzo(k)fluoranthene	1.051	0.938	10.8	78	0.00
90	C	Benzo(a)pyrene	1.002	1.009	-0.7	87	0.00
91		Dibenzo(a,h)anthracene	1.073	1.250	-16.5	99	0.00
92		Benzo(g,h,i)perylene	1.072	1.278	-19.2	101	0.00

Sample Results: **BF139892.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF139892.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
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BNA_F
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SSTDCCC040

Quant Time: Oct 21 17:36:14 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	94	0.00
2		1,4-Dioxane	40.000	39.206	2.0	92	-0.02
3		Pyridine	40.000	38.768	3.1	89	-0.01
4		n-Nitrosodimethylamine	40.000	38.421	3.9	88	-0.02
5	S	2-Fluorophenol	80.000	78.473	1.9	92	0.00
6		Aniline	40.000	40.073	-0.2	91	0.00
7	S	Phenol-d6	80.000	78.222	2.2	92	0.00
8		2-Chlorophenol	40.000	39.870	0.3	93	0.00
9		Benzaldehyde	40.000	34.998	12.5	81	0.00
10	C	Phenol	40.000	39.897	0.3	93	0.00
11		bis(2-Chloroethyl)ether	40.000	39.365	1.6	94	0.00
12		1,3-Dichlorobenzene	40.000	40.108	-0.3	94	0.00
13	C	1,4-Dichlorobenzene	40.000	39.925	0.2	94	0.00
14		1,2-Dichlorobenzene	40.000	39.898	0.3	95	0.00
15		Benzyl Alcohol	40.000	40.037	-0.1	94	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	39.162	2.1	91	0.00
17		2-Methylphenol	40.000	39.480	1.3	92	0.00
18		Hexachloroethane	40.000	40.341	-0.9	93	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.473	3.8	93	0.00
20		3+4-Methylphenols	40.000	39.267	1.8	92	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	94	0.00
22		Acetophenone	40.000	39.293	1.8	94	0.00
23	S	Nitrobenzene-d5	80.000	82.117	-2.6	94	0.00
24		Nitrobenzene	40.000	39.913	0.2	92	0.00
25		Isophorone	40.000	39.515	1.2	93	0.00
26	C	2-Nitrophenol	40.000	41.970	-4.9	93	0.00
27		2,4-Dimethylphenol	40.000	39.025	2.4	92	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.306	-0.8	95	0.00
29	C	2,4-Dichlorophenol	40.000	40.400	-1.0	95	0.00
30		1,2,4-Trichlorobenzene	40.000	40.386	-1.0	94	0.00
31		Naphthalene	40.000	39.773	0.6	94	0.00
32		Benzoic acid	40.000	40.954	-2.4	95	0.00
33		4-Chloroaniline	40.000	40.298	-0.7	95	0.00
34	C	Hexachlorobutadiene	40.000	41.056	-2.6	96	0.00
35		Caprolactam	40.000	37.820	5.4	87	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.613	1.0	93	0.00
37		2-Methylnaphthalene	40.000	39.678	0.8	94	0.00
38		1-Methylnaphthalene	40.000	39.646	0.9	94	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	94	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.887	-2.2	96	0.00
41	P	Hexachlorocyclopentadiene	40.000	44.558	-11.4	99	0.00
42	S	2,4,6-Tribromophenol	80.000	83.258	-4.1	97	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.547	1.1	91	0.00
44		2,4,5-Trichlorophenol	40.000	42.112	-5.3	97	0.00
45	S	2-Fluorobiphenyl	80.000	78.147	2.3	95	0.00
46		1,1'-Biphenyl	40.000	40.220	-0.5	95	0.00
47		2-Chloronaphthalene	40.000	40.122	-0.3	95	0.00

Sample Results: **BF139892.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	41.264	-3.2	91	0.00
49		Acenaphthylene	40.000	39.833	0.4	94	0.00
50		Dimethylphthalate	40.000	39.724	0.7	94	0.00
51		2,6-Dinitrotoluene	40.000	40.767	-1.9	92	0.00
52	C	Acenaphthene	40.000	40.043	-0.1	94	0.00
53		3-Nitroaniline	40.000	40.589	-1.5	90	0.00
54	P	2,4-Dinitrophenol	40.000	40.717	-1.8	96	0.00
55		Dibenzofuran	40.000	40.040	-0.1	95	0.00
56	P	4-Nitrophenol	40.000	40.833	-2.1	88	0.00
57		2,4-Dinitrotoluene	40.000	41.387	-3.5	90	0.00
58		Fluorene	40.000	39.017	2.5	94	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.541	-1.4	95	0.00
60		Diethylphthalate	40.000	39.449	1.4	93	0.00
61		4-Chlorophenyl-phenylether	40.000	39.768	0.6	95	0.00
62		4-Nitroaniline	40.000	41.022	-2.6	92	0.00
63		Azobenzene	40.000	39.034	2.4	91	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	92	0.00
65		4,6-Dinitro-2-methylphenol	40.000	44.468	-11.2	95	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.178	-0.4	92	0.00
67		4-Bromophenyl-phenylether	40.000	41.669	-4.2	97	0.00
68		Hexachlorobenzene	40.000	41.470	-3.7	95	0.00
69		Atrazine	40.000	40.026	-0.1	85	0.00
70	C	Pentachlorophenol	40.000	44.099	-10.2	93	0.00
71		Phenanthrene	40.000	39.424	1.4	91	0.00
72		Anthracene	40.000	39.929	0.2	92	0.00
73		Carbazole	40.000	38.591	3.5	89	0.00
74		Di-n-butylphthalate	40.000	38.212	4.5	85	0.00
75	C	Fluoranthene	40.000	37.973	5.1	88	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	85	0.00
77		Benzidine	40.000	39.773	0.6	76	0.00
78		Pyrene	40.000	43.662	-9.2	90	0.00
79	S	Terphenyl-d14	80.000	84.957	-6.2	89	0.00
80		Butylbenzylphthalate	40.000	40.927	-2.3	82	0.00
81		Benzo(a)anthracene	40.000	40.749	-1.9	84	0.00
82		3,3'-Dichlorobenzidine	40.000	41.114	-2.8	85	0.00
83		Chrysene	40.000	40.526	-1.3	88	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	45.265	-13.2	90	0.00
85	c	Di-n-octyl phthalate	40.000	47.081	-17.7	94	0.00
86	I	Perylene-d12	20.000	20.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	46.466	-16.2	98	0.00
88		Benzo(b)fluoranthene	40.000	40.502	-1.3	92	0.00
89		Benzo(k)fluoranthene	40.000	35.714	10.7	78	0.00
90	C	Benzo(a)pyrene	40.000	40.266	-0.7	87	0.00
91		Dibenzo(a,h)anthracene	40.000	46.574	-16.4	99	0.00
92		Benzo(g,h,i)perylene	40.000	47.682	-19.2	101	0.00

Sample Results: **BF139892.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139892.D
Acq On : 21 Oct 2024 09:57
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 21 17:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BF139927.D**

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: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/22/2024 14:28

Lab File ID: BF139927.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.238		-3.1	
Benzaldehyde	0.931	0.957		2.8	
Phenol-d6	1.655	1.570		-5.1	
Phenol	1.706	1.639		-3.9	20.0
bis(2-Chloroethyl)ether	1.319	1.272		-3.6	
2-Chlorophenol	1.306	1.287		-1.5	
2-Methylphenol	1.114	1.070		-4.0	
2,2-oxybis(1-Chloropropane)	2.248	2.090		-7.0	
Acetophenone	0.490	0.474		-3.3	
3+4-Methylphenols	1.424	1.367		-4.0	
n-Nitroso-di-n-propylamine	1.004	0.934	0.050	-7.0	
Nitrobenzene-d5	0.361	0.377		4.4	
Hexachloroethane	0.534	0.531		-0.6	
Nitrobenzene	0.396	0.401		1.3	
Isophorone	0.685	0.658		-3.9	
2-Nitrophenol	0.149	0.178		19.5	20.0
2,4-Dimethylphenol	0.249	0.243		-2.4	
bis(2-Chloroethoxy)methane	0.415	0.406		-2.2	
2,4-Dichlorophenol	0.283	0.285		0.7	20.0
Naphthalene	1.031	1.017		-1.4	
4-Chloroaniline	0.352	0.346		-1.7	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.086		-4.4	
4-Chloro-3-methylphenol	0.314	0.306		-2.5	20.0
2-Methylnaphthalene	0.632	0.625		-1.1	
Hexachlorocyclopentadiene	0.188	0.217	0.050	15.4	
2,4,6-Trichlorophenol	0.382	0.396		3.7	20.0
2-Fluorobiphenyl	1.210	1.202		-0.7	
2,4,5-Trichlorophenol	0.394	0.423		7.4	
1,1-Biphenyl	1.392	1.411		1.4	
2-Chloronaphthalene	1.121	1.140		1.7	
2-Nitroaniline	0.343	0.368		7.3	
Dimethylphthalate	1.246	1.230		-1.3	
Acenaphthylene	1.621	1.627		0.4	
2,6-Dinitrotoluene	0.270	0.289		7.0	
3-Nitroaniline	0.278	0.287		3.2	
Acenaphthene	1.049	1.066		1.6	20.0
2,4-Dinitrophenol	0.093	0.132	0.050	41.9	
4-Nitrophenol	0.214	0.223	0.050	4.2	

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: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/22/2024 14:28

Lab File ID: BF139927.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.499		-0.4	
2,4-Dinitrotoluene	0.332	0.373		12.3	
Diethylphthalate	1.223	1.185		-3.1	
4-Chlorophenyl-phenylether	0.579	0.580		0.2	
Fluorene	1.146	1.117		-2.5	
4-Nitroaniline	0.263	0.268		1.9	
4,6-Dinitro-2-methylphenol	0.082	0.112		36.6	
n-Nitrosodiphenylamine	0.599	0.598		-0.2	20.0
2,4,6-Tribromophenol	0.187	0.201		7.5	
4-Bromophenyl-phenylether	0.206	0.216		4.9	
Hexachlorobenzene	0.232	0.239		3.0	
Atrazine	0.162	0.155		-4.3	
Pentachlorophenol	0.141	0.160		13.5	20.0
Phenanthrene	0.945	0.925		-2.1	
Anthracene	0.922	0.916		-0.7	
Carbazole	0.857	0.810		-5.5	
Di-n-butylphthalate	0.990	0.919		-7.2	
Fluoranthene	0.955	0.875		-8.5	20.0
Pyrene	1.751	1.852		5.8	
Terphenyl-d14	1.227	1.269		3.4	
Butylbenzylphthalate	0.525	0.539		2.7	
3,3-Dichlorobenzidine	0.380	0.452		18.9	
Benzo(a)anthracene	1.302	1.303		0.1	
Chrysene	1.194	1.167		-2.3	
Bis(2-ethylhexyl)phthalate	0.589	0.693		17.7	
Di-n-octyl phthalate	1.071	1.312		22.5	20.0
Benzo(b)fluoranthene	1.218	1.229		0.9	
Benzo(k)fluoranthene	1.051	0.899		-14.5	
Benzo(a)pyrene	1.002	1.008		0.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.437		11.7	
Dibenzo(a,h)anthracene	1.073	1.186		10.5	
Benzo(g,h,i)perylene	1.072	1.213		13.2	
1,2,4,5-Tetrachlorobenzene	0.540	0.557		3.1	
1,4-Dioxane	0.596	0.561		-5.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.321		3.9	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF139927.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/23/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	169434	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	628861	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	340877	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	576195	20.000	ng	0.00
76) Chrysene-d12	14.051	240	272427	20.000	ng	0.00
86) Perylene-d12	15.533	264	340524	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	838903	77.511	ng	0.00
7) Phenol-d6	6.510	99	1063943	75.900	ng	0.00
23) Nitrobenzene-d5	7.451	82	947718	83.526	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	274276	86.022	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1638873	79.459	ng	0.00
79) Terphenyl-d14	12.998	244	1382323	82.682	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.658	88	189974	37.647	ng	96
3) Pyridine	3.428	79	475369	38.005	ng	98
4) n-Nitrosodimethylamine	3.375	42	247041	36.761	ng	99
6) Aniline	6.557	93	502045	38.429	ng	98
8) 2-Chlorophenol	6.675	128	436183	39.422	ng	100
9) Benzaldehyde	6.440	77	324199	41.112	ng	99
10) Phenol	6.528	94	555529m	38.441	ng	
11) bis(2-Chloroethyl)ether	6.628	93	431014	38.587	ng	99
12) 1,3-Dichlorobenzene	6.834	146	498447	39.244	ng	99
13) 1,4-Dichlorobenzene	6.910	146	500537	39.446	ng	99
14) 1,2-Dichlorobenzene	7.063	146	465761	39.329	ng	99
15) Benzyl Alcohol	7.028	79	393531	38.272	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	708262	37.186	ng	99
17) 2-Methylphenol	7.134	107	362428	38.414	ng	100
18) Hexachloroethane	7.404	117	179977	39.774	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	316358	37.211	ng	98
20) 3+4-Methylphenols	7.287	107	463128	38.378	ng	98
22) Acetophenone	7.298	105	595699	38.675	ng	99
24) Nitrobenzene	7.475	77	504935	40.589	ng	98
25) Isophorone	7.710	82	827301	38.416	ng	99
26) 2-Nitrophenol	7.787	139	224110	47.753	ng	97
27) 2,4-Dimethylphenol	7.816	122	305033	38.979	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	510973	39.162	ng	100
29) 2,4-Dichlorophenol	8.028	162	359008	40.277	ng	98
30) 1,2,4-Trichlorobenzene	8.116	180	403971	40.959	ng	99
31) Naphthalene	8.198	128	1278754	39.428	ng	100
32) Benzoic acid	7.922	122	296735	43.475	ng	98
33) 4-Chloroaniline	8.239	127	434948	39.329	ng	99
34) Hexachlorobutadiene	8.316	225	257175	41.500	ng	100
35) Caprolactam	8.610	113	107774	38.027	ng	95
36) 4-Chloro-3-methylphenol	8.716	107	385163	39.024	ng	97
37) 2-Methylnaphthalene	8.886	142	786050	39.573	ng	100
38) 1-Methylnaphthalene	8.986	142	770716	39.548	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	380030	41.324	ng	99
41) Hexachlorocyclopentadiene	9.039	237	148115	46.288	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	269749	41.430	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/23/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	288478	42.944	ng		97
46) 1,1'-Biphenyl	9.351	154	962207	40.548	ng		100
47) 2-Chloronaphthalene	9.375	162	777191	40.664	ng		99
48) 2-Nitroaniline	9.469	65	250791	42.904	ng		92
49) Acenaphthylene	9.792	152	1109171	40.142	ng		100
50) Dimethylphthalate	9.651	163	838437	39.488	ng		100
51) 2,6-Dinitrotoluene	9.710	165	197329	42.923	ng		96
52) Acenaphthene	9.963	154	726834	40.664	ng		99
53) 3-Nitroaniline	9.875	138	195560	41.250	ng		98
54) 2,4-Dinitrophenol	9.981	184	90213	49.904	ng	#	2
55) Dibenzofuran	10.133	168	1022078	39.854	ng		99
56) 4-Nitrophenol	10.022	139	151806	41.620	ng		99
57) 2,4-Dinitrotoluene	10.110	165	254584	45.032	ng		97
58) Fluorene	10.481	166	761265	38.973	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	218559	41.504	ng		97
60) Diethylphthalate	10.351	149	807640	38.741	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	395251	40.069	ng		98
62) 4-Nitroaniline	10.486	138	182487	40.756	ng		96
63) Azobenzene	10.628	77	842674	38.128	ng		99
65) 4,6-Dinitro-2-methylph...	10.516	198	128598	54.716	ng		93
66) n-Nitrosodiphenylamine	10.586	169	689056	39.956	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	249054	41.957	ng		95
68) Hexachlorobenzene	11.028	284	274913	41.180	ng		95
69) Atrazine	11.110	200	179047	38.327	ng		99
70) Pentachlorophenol	11.216	266	184808	45.613	ng		99
71) Phenanthrene	11.439	178	1065463	39.147	ng		100
72) Anthracene	11.492	178	1055100	39.732	ng		100
73) Carbazole	11.645	167	933027	37.779	ng		99
74) Di-n-butylphthalate	11.975	149	1059052	37.116	ng		100
75) Fluoranthene	12.627	202	1007765	36.627	ng		99
77) Benzidine	12.745	184	321761	71.828	ng		99
78) Pyrene	12.857	202	1009031	42.314	ng		100
80) Butylbenzylphthalate	13.474	149	293771	41.091	ng		99
81) Benzo(a)anthracene	14.045	228	709829	40.026	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	246362	47.646	ng		99
83) Chrysene	14.080	228	635621	39.091	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	377843	47.106	ng		99
85) Di-n-octyl phthalate	14.645	149	714675	48.986	ng		98
87) Indeno(1,2,3-cd)pyrene	17.027	276	978527	44.668	ng		98
88) Benzo(b)fluoranthene	15.098	252	836843	40.343	ng		100
89) Benzo(k)fluoranthene	15.127	252	612231	34.223	ng		100
90) Benzo(a)pyrene	15.468	252	686191	40.203	ng		100
91) Dibenzo(a,h)anthracene	17.051	278	808047	44.216	ng		99
92) Benzo(g,h,i)perylene	17.486	276	825853	45.241	ng		98

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

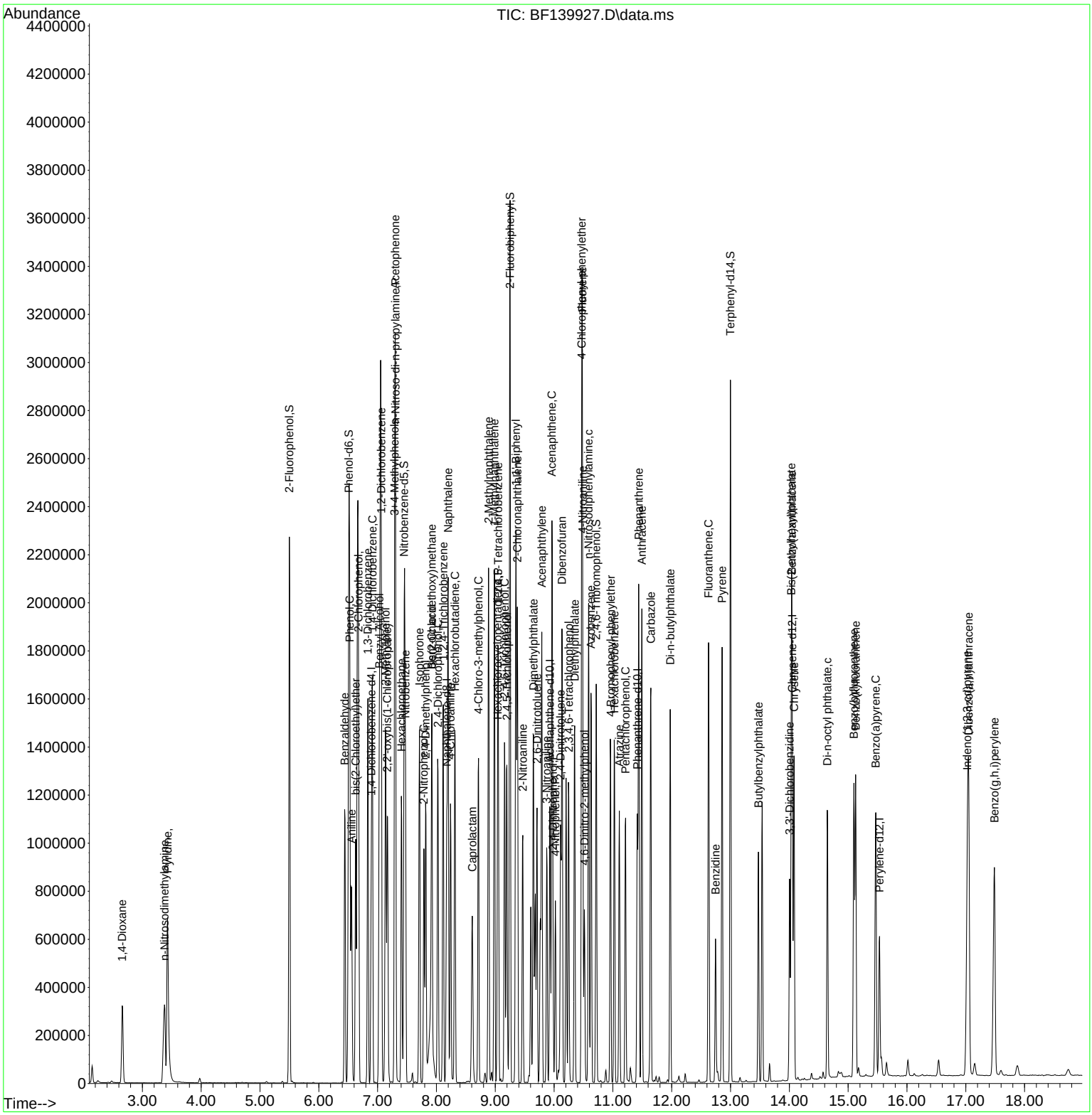
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/23/2024
Supervised By :mohammad ahmed 10/24/2024



Sample Results: **BF139927.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		1,4-Dioxane	0.596	0.561	5.9	88	-0.03
3		Pyridine	1.476	1.403	4.9	87	-0.02
4		n-Nitrosodimethylamine	0.793	0.729	8.1	84	-0.02
5	S	2-Fluorophenol	1.278	1.238	3.1	90	0.00
6		Aniline	1.542	1.482	3.9	87	0.00
7	S	Phenol-d6	1.655	1.570	5.1	89	0.00
8		2-Chlorophenol	1.306	1.287	1.5	92	0.00
9		Benzaldehyde	0.931	0.957	-2.8	95	0.00
10	C	Phenol	1.706	1.639	3.9	89	0.00
11		bis(2-Chloroethyl)ether	1.319	1.272	3.6	92	0.00
12		1,3-Dichlorobenzene	1.499	1.471	1.9	91	0.00
13	C	1,4-Dichlorobenzene	1.498	1.477	1.4	93	0.00
14		1,2-Dichlorobenzene	1.398	1.374	1.7	93	0.00
15		Benzyl Alcohol	1.214	1.161	4.4	89	0.00
16		2,2'-oxybis(1-Chloropropane	2.248	2.090	7.0	86	0.00
17		2-Methylphenol	1.114	1.070	3.9	89	0.00
18		Hexachloroethane	0.534	0.531	0.6	92	0.00
19	P	n-Nitroso-di-n-propylamine	1.004	0.934	7.0	89	0.00
20		3+4-Methylphenols	1.424	1.367	4.0	90	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00
22		Acetophenone	0.490	0.474	3.3	90	0.00
23	S	Nitrobenzene-d5	0.361	0.377	-4.4	93	0.00
24		Nitrobenzene	0.396	0.401	-1.3	91	0.00
25		Isophorone	0.685	0.658	3.9	88	0.00
26	C	2-Nitrophenol	0.149	0.178	-19.5	103	0.00
27		2,4-Dimethylphenol	0.249	0.243	2.4	89	0.00
28		bis(2-Chloroethoxy)methane	0.415	0.406	2.2	90	0.00
29	C	2,4-Dichlorophenol	0.283	0.285	-0.7	92	0.00
30		1,2,4-Trichlorobenzene	0.314	0.321	-2.2	93	0.00
31		Naphthalene	1.031	1.017	1.4	91	0.00
32		Benzoic acid	0.217	0.236	-8.8	98	0.00
33		4-Chloroaniline	0.352	0.346	1.7	90	0.00
34	C	Hexachlorobutadiene	0.197	0.204	-3.6	95	0.00
35		Caprolactam	0.090	0.086	4.4	85	0.00
36	C	4-Chloro-3-methylphenol	0.314	0.306	2.5	89	0.00
37		2-Methylnaphthalene	0.632	0.625	1.1	92	0.00
38		1-Methylnaphthalene	0.620	0.613	1.1	91	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
40		1,2,4,5-Tetrachlorobenzene	0.540	0.557	-3.1	93	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.217	-15.4	98	0.00
42	S	2,4,6-Tribromophenol	0.187	0.201	-7.5	96	0.00
43	C	2,4,6-Trichlorophenol	0.382	0.396	-3.7	92	0.00
44		2,4,5-Trichlorophenol	0.394	0.423	-7.4	95	0.00
45	S	2-Fluorobiphenyl	1.210	1.202	0.7	93	0.00
46		1,1'-Biphenyl	1.392	1.411	-1.4	92	0.00
47		2-Chloronaphthalene	1.121	1.140	-1.7	92	0.00

Sample Results: **BF139927.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.343	0.368	-7.3	90	0.00
49		Acenaphthylene	1.621	1.627	-0.4	90	0.00
50		Dimethylphthalate	1.246	1.230	1.3	89	0.00
51		2,6-Dinitrotoluene	0.270	0.289	-7.0	93	0.00
52	C	Acenaphthene	1.049	1.066	-1.6	92	0.00
53		3-Nitroaniline	0.278	0.287	-3.2	88	0.00
54	P	2,4-Dinitrophenol	0.093	0.132	-41.9#	117	0.00
55		Dibenzofuran	1.505	1.499	0.4	91	0.00
56	P	4-Nitrophenol	0.214	0.223	-4.2	86	0.00
57		2,4-Dinitrotoluene	0.332	0.373	-12.3	94	0.00
58		Fluorene	1.146	1.117	2.5	90	0.00
59		2,3,4,6-Tetrachlorophenol	0.309	0.321	-3.9	93	0.00
60		Diethylphthalate	1.223	1.185	3.1	88	0.00
61		4-Chlorophenyl-phenylether	0.579	0.580	-0.2	91	0.00
62		4-Nitroaniline	0.263	0.268	-1.9	87	0.00
63		Azobenzene	1.297	1.236	4.7	85	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00
65		4,6-Dinitro-2-methylphenol	0.082	0.112	-36.6#	111	0.00
66	c	n-Nitrosodiphenylamine	0.599	0.598	0.2	87	0.00
67		4-Bromophenyl-phenylether	0.206	0.216	-4.9	93	0.00
68		Hexachlorobenzene	0.232	0.239	-3.0	90	0.00
69		Atrazine	0.162	0.155	4.3	77	0.00
70	C	Pentachlorophenol	0.141	0.160	-13.5	92	0.00
71		Phenanthrene	0.945	0.925	2.1	86	0.00
72		Anthracene	0.922	0.916	0.7	87	0.00
73		Carbazole	0.857	0.810	5.5	83	0.00
74		Di-n-butylphthalate	0.990	0.919	7.2	79	0.00
75	C	Fluoranthene	0.955	0.874	8.5	81	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	79	0.00
77		Benzidine	0.329	0.591	-79.6#	127	0.00
78		Pyrene	1.751	1.852	-5.8	81	0.00
79	S	Terphenyl-d14	1.227	1.269	-3.4	80	0.00
80		Butylbenzylphthalate	0.525	0.539	-2.7	77	0.00
81		Benzo(a)anthracene	1.302	1.303	-0.1	77	0.00
82		3,3'-Dichlorobenzidine	0.380	0.452	-18.9	92	0.00
83		Chrysene	1.194	1.167	2.3	79	0.00
84		Bis(2-ethylhexyl)phthalate	0.589	0.693	-17.7	87	0.00
85	c	Di-n-octyl phthalate	1.071	1.312	-22.5#	91	0.00
86	I	Perylene-d12	1.000	1.000	0.0	93	0.00
87		Indeno(1,2,3-cd)pyrene	1.287	1.437	-11.7	99	0.00
88		Benzo(b)fluoranthene	1.218	1.229	-0.9	96	0.00
89		Benzo(k)fluoranthene	1.051	0.899	14.5	79	0.00
90	C	Benzo(a)pyrene	1.002	1.008	-0.6	92	0.00
91		Dibenzo(a,h)anthracene	1.073	1.186	-10.5	99	0.00
92		Benzo(g,h,i)perylene	1.072	1.213	-13.2	100	0.00

Sample Results: **BF139927.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Sample Results: **BF139927.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
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SSTDCCC040

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	93	0.00
2		1,4-Dioxane	40.000	37.647	5.9	88	-0.03
3		Pyridine	40.000	38.005	5.0	87	-0.02
4		n-Nitrosodimethylamine	40.000	36.761	8.1	84	-0.02
5	S	2-Fluorophenol	80.000	77.511	3.1	90	0.00
6		Aniline	40.000	38.429	3.9	87	0.00
7	S	Phenol-d6	80.000	75.900	5.1	89	0.00
8		2-Chlorophenol	40.000	39.422	1.4	92	0.00
9		Benzaldehyde	40.000	41.112	-2.8	95	0.00
10	C	Phenol	40.000	38.441	3.9	89	0.00
11		bis(2-Chloroethyl)ether	40.000	38.587	3.5	92	0.00
12		1,3-Dichlorobenzene	40.000	39.244	1.9	91	0.00
13	C	1,4-Dichlorobenzene	40.000	39.446	1.4	93	0.00
14		1,2-Dichlorobenzene	40.000	39.329	1.7	93	0.00
15		Benzyl Alcohol	40.000	38.272	4.3	89	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.186	7.0	86	0.00
17		2-Methylphenol	40.000	38.414	4.0	89	0.00
18		Hexachloroethane	40.000	39.774	0.6	92	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.211	7.0	89	0.00
20		3+4-Methylphenols	40.000	38.378	4.1	90	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	91	0.00
22		Acetophenone	40.000	38.675	3.3	90	0.00
23	S	Nitrobenzene-d5	80.000	83.526	-4.4	93	0.00
24		Nitrobenzene	40.000	40.589	-1.5	91	0.00
25		Isophorone	40.000	38.416	4.0	88	0.00
26	C	2-Nitrophenol	40.000	47.753	-19.4	103	0.00
27		2,4-Dimethylphenol	40.000	38.979	2.6	89	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.162	2.1	90	0.00
29	C	2,4-Dichlorophenol	40.000	40.277	-0.7	92	0.00
30		1,2,4-Trichlorobenzene	40.000	40.959	-2.4	93	0.00
31		Naphthalene	40.000	39.428	1.4	91	0.00
32		Benzoic acid	40.000	43.475	-8.7	98	0.00
33		4-Chloroaniline	40.000	39.329	1.7	90	0.00
34	C	Hexachlorobutadiene	40.000	41.500	-3.8	95	0.00
35		Caprolactam	40.000	38.027	4.9	85	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.024	2.4	89	0.00
37		2-Methylnaphthalene	40.000	39.573	1.1	92	0.00
38		1-Methylnaphthalene	40.000	39.548	1.1	91	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	90	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.324	-3.3	93	0.00
41	P	Hexachlorocyclopentadiene	40.000	46.288	-15.7	98	0.00
42	S	2,4,6-Tribromophenol	80.000	86.022	-7.5	96	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.430	-3.6	92	0.00
44		2,4,5-Trichlorophenol	40.000	42.944	-7.4	95	0.00
45	S	2-Fluorobiphenyl	80.000	79.459	0.7	93	0.00
46		1,1'-Biphenyl	40.000	40.548	-1.4	92	0.00
47		2-Chloronaphthalene	40.000	40.664	-1.7	92	0.00

Sample Results: **BF139927.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	42.904	-7.3	90	0.00
49		Acenaphthylene	40.000	40.142	-0.4	90	0.00
50		Dimethylphthalate	40.000	39.488	1.3	89	0.00
51		2,6-Dinitrotoluene	40.000	42.923	-7.3	93	0.00
52	C	Acenaphthene	40.000	40.664	-1.7	92	0.00
53		3-Nitroaniline	40.000	41.250	-3.1	88	0.00
54	P	2,4-Dinitrophenol	40.000	49.904	-24.8	117	0.00
55		Dibenzofuran	40.000	39.854	0.4	91	0.00
56	P	4-Nitrophenol	40.000	41.620	-4.0	86	0.00
57		2,4-Dinitrotoluene	40.000	45.032	-12.6	94	0.00
58		Fluorene	40.000	38.973	2.6	90	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.504	-3.8	93	0.00
60		Diethylphthalate	40.000	38.741	3.1	88	0.00
61		4-Chlorophenyl-phenylether	40.000	40.069	-0.2	91	0.00
62		4-Nitroaniline	40.000	40.756	-1.9	87	0.00
63		Azobenzene	40.000	38.128	4.7	85	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	87	0.00
65		4,6-Dinitro-2-methylphenol	40.000	54.716	-36.8#	111	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.956	0.1	87	0.00
67		4-Bromophenyl-phenylether	40.000	41.957	-4.9	93	0.00
68		Hexachlorobenzene	40.000	41.180	-2.9	90	0.00
69		Atrazine	40.000	38.327	4.2	77	0.00
70	C	Pentachlorophenol	40.000	45.613	-14.0	92	0.00
71		Phenanthrene	40.000	39.147	2.1	86	0.00
72		Anthracene	40.000	39.732	0.7	87	0.00
73		Carbazole	40.000	37.779	5.6	83	0.00
74		Di-n-butylphthalate	40.000	37.116	7.2	79	0.00
75	C	Fluoranthene	40.000	36.627	8.4	81	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	79	0.00
77		Benzidine	40.000	71.828	-79.6#	127	0.00
78		Pyrene	40.000	42.314	-5.8	81	0.00
79	S	Terphenyl-d14	80.000	82.682	-3.4	80	0.00
80		Butylbenzylphthalate	40.000	41.091	-2.7	77	0.00
81		Benzo(a)anthracene	40.000	40.026	-0.1	77	0.00
82		3,3'-Dichlorobenzidine	40.000	47.646	-19.1	92	0.00
83		Chrysene	40.000	39.091	2.3	79	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	47.106	-17.8	87	0.00
85	c	Di-n-octyl phthalate	40.000	48.986	-22.5#	91	0.00
86	I	Perylene-d12	20.000	20.000	0.0	93	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	44.668	-11.7	99	0.00
88		Benzo(b)fluoranthene	40.000	40.343	-0.9	96	0.00
89		Benzo(k)fluoranthene	40.000	34.223	14.4	79	0.00
90	C	Benzo(a)pyrene	40.000	40.203	-0.5	92	0.00
91		Dibenzo(a,h)anthracene	40.000	44.216	-10.5	99	0.00
92		Benzo(g,h,i)perylene	40.000	45.241	-13.1	100	0.00

Sample Results: **BF139927.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139927.D
Acq On : 22 Oct 2024 14:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 22 14:55:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

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: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 09:20

Lab File ID: BF139952.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.208		-5.5	
Benzaldehyde	0.931	0.814		-12.6	
Phenol-d6	1.655	1.535		-7.3	
Phenol	1.706	1.607		-5.8	20.0
bis(2-Chloroethyl)ether	1.319	1.234		-6.4	
2-Chlorophenol	1.306	1.268		-2.9	
2-Methylphenol	1.114	1.068		-4.1	
2,2-oxybis(1-Chloropropane)	2.248	2.003		-10.9	
Acetophenone	0.490	0.464		-5.3	
3+4-Methylphenols	1.424	1.338		-6.0	
n-Nitroso-di-n-propylamine	1.004	0.910	0.050	-9.4	
Nitrobenzene-d5	0.361	0.367		1.7	
Hexachloroethane	0.534	0.522		-2.2	
Nitrobenzene	0.396	0.388		-2.0	
Isophorone	0.685	0.648		-5.4	
2-Nitrophenol	0.149	0.174		16.8	20.0
2,4-Dimethylphenol	0.249	0.236		-5.2	
bis(2-Chloroethoxy)methane	0.415	0.398		-4.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.008		-2.2	
4-Chloroaniline	0.352	0.342		-2.8	
Hexachlorobutadiene	0.197	0.200		1.5	20.0
Caprolactam	0.090	0.090		0.0	
4-Chloro-3-methylphenol	0.314	0.305		-2.9	20.0
2-Methylnaphthalene	0.632	0.620		-1.9	
Hexachlorocyclopentadiene	0.188	0.204	0.050	8.5	
2,4,6-Trichlorophenol	0.382	0.403		5.5	20.0
2-Fluorobiphenyl	1.210	1.162		-4.0	
2,4,5-Trichlorophenol	0.394	0.393		-0.3	
1,1-Biphenyl	1.392	1.355		-2.7	
2-Chloronaphthalene	1.121	1.098		-2.1	
2-Nitroaniline	0.343	0.363		5.8	
Dimethylphthalate	1.246	1.215		-2.5	
Acenaphthylene	1.621	1.589		-2.0	
2,6-Dinitrotoluene	0.270	0.288		6.7	
3-Nitroaniline	0.278	0.293		5.4	
Acenaphthene	1.049	1.047		-0.2	20.0
2,4-Dinitrophenol	0.093	0.140	0.050	50.5	
4-Nitrophenol	0.214	0.233	0.050	8.9	

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: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 09:20

Lab File ID: BF139952.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.468		-2.5	
2,4-Dinitrotoluene	0.332	0.372		12.0	
Diethylphthalate	1.223	1.192		-2.5	
4-Chlorophenyl-phenylether	0.579	0.584		0.9	
Fluorene	1.146	1.120		-2.3	
4-Nitroaniline	0.263	0.278		5.7	
4,6-Dinitro-2-methylphenol	0.082	0.113		37.8	
n-Nitrosodiphenylamine	0.599	0.579		-3.3	20.0
2,4,6-Tribromophenol	0.187	0.206		10.2	
4-Bromophenyl-phenylether	0.206	0.211		2.4	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.165		1.9	
Pentachlorophenol	0.141	0.161		14.2	20.0
Phenanthrene	0.945	0.906		-4.1	
Anthracene	0.922	0.896		-2.8	
Carbazole	0.857	0.815		-4.9	
Di-n-butylphthalate	0.990	0.951		-3.9	
Fluoranthene	0.955	0.921		-3.6	20.0
Pyrene	1.751	1.747		-0.2	
Terphenyl-d14	1.227	1.236		0.7	
Butylbenzylphthalate	0.525	0.536		2.1	
3,3-Dichlorobenzidine	0.380	0.427		12.4	
Benzo(a)anthracene	1.302	1.273		-2.2	
Chrysene	1.194	1.169		-2.1	
Bis(2-ethylhexyl)phthalate	0.589	0.652		10.7	
Di-n-octyl phthalate	1.071	1.163		8.6	20.0
Benzo(b)fluoranthene	1.218	1.240		1.8	
Benzo(k)fluoranthene	1.051	0.912		-13.2	
Benzo(a)pyrene	1.002	0.988		-1.4	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.393		8.2	
Dibenzo(a,h)anthracene	1.073	1.155		7.6	
Benzo(g,h,i)perylene	1.072	1.184		10.4	
1,2,4,5-Tetrachlorobenzene	0.540	0.541		0.2	
1,4-Dioxane	0.596	0.552		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.318		2.9	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

10/24/2024
Supervised By :mohammad ahmed

10/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	156634	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	590130	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	329153	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	576587	20.000	ng	0.00
76) Chrysene-d12	14.057	240	299183	20.000	ng	0.00
86) Perylene-d12	15.533	264	329130	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	756653	75.624	ng	0.00
7) Phenol-d6	6.510	99	961945	74.232	ng	0.00
23) Nitrobenzene-d5	7.451	82	865501	81.286	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	271250	88.103	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1530540	76.849	ng	0.00
79) Terphenyl-d14	12.998	244	1479656	80.588	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.663	88	172780	37.037	ng	95
3) Pyridine	3.434	79	426509	36.885	ng	97
4) n-Nitrosodimethylamine	3.381	42	221378	35.634	ng	97
6) Aniline	6.557	93	456412	37.791	ng	97
8) 2-Chlorophenol	6.675	128	397094	38.822	ng	99
9) Benzaldehyde	6.440	77	254907	34.967	ng	99
10) Phenol	6.528	94	503534m	37.690	ng	
11) bis(2-Chloroethyl)ether	6.628	93	386484	37.428	ng	98
12) 1,3-Dichlorobenzene	6.834	146	455424	38.787	ng	99
13) 1,4-Dichlorobenzene	6.910	146	458258	39.065	ng	99
14) 1,2-Dichlorobenzene	7.063	146	427711	39.067	ng	98
15) Benzyl Alcohol	7.028	79	360813	37.958	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	627431	35.635	ng	99
17) 2-Methylphenol	7.134	107	334711	38.376	ng	99
18) Hexachloroethane	7.404	117	163379	39.057	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	285035	36.267	ng	97
20) 3+4-Methylphenols	7.287	107	419114	37.569	ng	99
22) Acetophenone	7.298	105	547698	37.892	ng	98
24) Nitrobenzene	7.475	77	457518	39.191	ng	98
25) Isophorone	7.710	82	765148	37.861	ng	99
26) 2-Nitrophenol	7.787	139	205936	46.760	ng	96
27) 2,4-Dimethylphenol	7.816	122	278267	37.893	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	469945	38.381	ng	100
29) 2,4-Dichlorophenol	8.022	162	330949	39.566	ng	100
30) 1,2,4-Trichlorobenzene	8.116	180	368190	39.781	ng	100
31) Naphthalene	8.198	128	1189876	39.095	ng	100
32) Benzoic acid	7.922	122	280518	43.797	ng	97
33) 4-Chloroaniline	8.240	127	403424	38.873	ng	99
34) Hexachlorobutadiene	8.310	225	236438	40.658	ng	98
35) Caprolactam	8.610	113	106703	40.120	ng	91
36) 4-Chloro-3-methylphenol	8.716	107	359470	38.812	ng	96
37) 2-Methylnaphthalene	8.887	142	731192	39.227	ng	100
38) 1-Methylnaphthalene	8.987	142	715426	39.120	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	355865	40.075	ng	100
41) Hexachlorocyclopentadiene	9.040	237	134320	43.472	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	265016	42.153	ng	100

Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
10/24/2024
Supervised By :mohammad ahmed
10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	258543	39.859	ng		97
46) 1,1'-Biphenyl	9.351	154	891770	38.918	ng		99
47) 2-Chloronaphthalene	9.375	162	723091	39.181	ng		100
48) 2-Nitroaniline	9.469	65	238757	42.300	ng		92
49) Acenaphthylene	9.792	152	1045886	39.200	ng		100
50) Dimethylphthalate	9.651	163	799846	39.013	ng		100
51) 2,6-Dinitrotoluene	9.710	165	189348	42.654	ng		95
52) Acenaphthene	9.963	154	689265	39.935	ng		99
53) 3-Nitroaniline	9.875	138	192935	42.145	ng		97
54) 2,4-Dinitrophenol	9.981	184	92435	52.556	ng	#	1
55) Dibenzofuran	10.134	168	966623	39.034	ng		99
56) 4-Nitrophenol	10.028	139	153534	43.593	ng		97
57) 2,4-Dinitrotoluene	10.110	165	244656	44.817	ng		98
58) Fluorene	10.481	166	737183	39.085	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	209605	41.221	ng		97
60) Diethylphthalate	10.351	149	784653	38.979	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	384427	40.360	ng		98
62) 4-Nitroaniline	10.492	138	183216	42.376	ng		96
63) Azobenzene	10.628	77	800436	37.507	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	130520	55.496	ng		94
66) n-Nitrosodiphenylamine	10.586	169	668240	38.723	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	243222	40.947	ng		94
68) Hexachlorobenzene	11.028	284	269072	40.278	ng		95
69) Atrazine	11.110	200	189938	40.631	ng		100
70) Pentachlorophenol	11.216	266	186013	45.879	ng		99
71) Phenanthrene	11.439	178	1045223	38.377	ng		100
72) Anthracene	11.492	178	1032769	38.865	ng		100
73) Carbazole	11.645	167	939679	38.023	ng		99
74) Di-n-butylphthalate	11.975	149	1096390	38.399	ng		100
75) Fluoranthene	12.628	202	1062550	38.592	ng		100
77) Benzidine	12.745	184	245338	49.870	ng		99
78) Pyrene	12.857	202	1045514	39.923	ng		100
80) Butylbenzylphthalate	13.475	149	320762	40.854	ng		99
81) Benzo(a)anthracene	14.045	228	761588	39.104	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	255392	44.975	ng		100
83) Chrysene	14.080	228	699768	39.187	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	390057	44.280	ng		99
85) Di-n-octyl phthalate	14.645	149	695957	43.437	ng		98
87) Indeno(1,2,3-cd)pyrene	17.033	276	917265	43.321	ng		98
88) Benzo(b)fluoranthene	15.098	252	815990	40.699	ng		100
89) Benzo(k)fluoranthene	15.127	252	600268	34.716	ng		99
90) Benzo(a)pyrene	15.469	252	650166	39.411	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	760210	43.038	ng		99
92) Benzo(g,h,i)perylene	17.486	276	779486	44.179	ng		99

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

Sample Results: **BF139952.D**

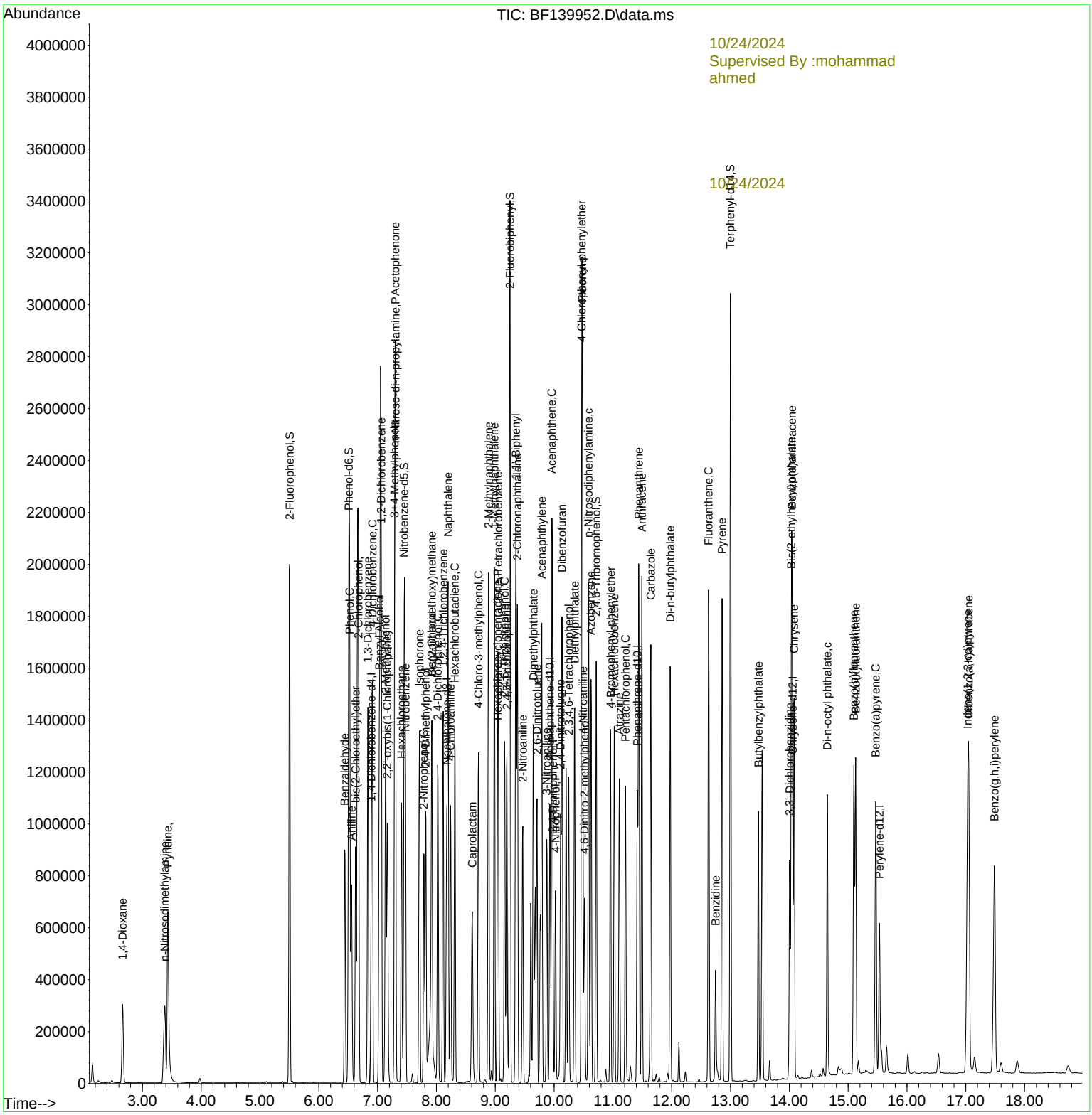
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel



Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
2		1,4-Dioxane	0.596	0.552	7.4	80	-0.02
3		Pyridine	1.476	1.361	7.8	78	-0.01
4		n-Nitrosodimethylamine	0.793	0.707	10.8	76	-0.02
5	S	2-Fluorophenol	1.278	1.208	5.5	81	0.00
6		Aniline	1.542	1.457	5.5	79	0.00
7	S	Phenol-d6	1.655	1.535	7.3	80	0.00
8		2-Chlorophenol	1.306	1.268	2.9	83	0.00
9		Benzaldehyde	0.931	0.814	12.6	75	0.00
10	C	Phenol	1.706	1.607	5.8	81	0.00
11		bis(2-Chloroethyl)ether	1.319	1.234	6.4	82	0.00
12		1,3-Dichlorobenzene	1.499	1.454	3.0	84	0.00
13	C	1,4-Dichlorobenzene	1.498	1.463	2.3	85	0.00
14		1,2-Dichlorobenzene	1.398	1.365	2.4	85	0.00
15		Benzyl Alcohol	1.214	1.152	5.1	82	0.00
16		2,2'-oxybis(1-Chloropropane	2.248	2.003	10.9	76	0.00
17		2-Methylphenol	1.114	1.068	4.1	83	0.00
18		Hexachloroethane	0.534	0.522	2.2	83	0.00
19	P	n-Nitroso-di-n-propylamine	1.004	0.910	9.4	80	0.00
20		3+4-Methylphenols	1.424	1.338	6.0	81	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	86	0.00
22		Acetophenone	0.490	0.464	5.3	83	0.00
23	S	Nitrobenzene-d5	0.361	0.367	-1.7	85	0.00
24		Nitrobenzene	0.396	0.388	2.0	82	0.00
25		Isophorone	0.685	0.648	5.4	82	0.00
26	C	2-Nitrophenol	0.149	0.174	-16.8	95	0.00
27		2,4-Dimethylphenol	0.249	0.236	5.2	81	0.00
28		bis(2-Chloroethoxy)methane	0.415	0.398	4.1	83	0.00
29	C	2,4-Dichlorophenol	0.283	0.280	1.1	85	0.00
30		1,2,4-Trichlorobenzene	0.314	0.312	0.6	85	0.00
31		Naphthalene	1.031	1.008	2.2	84	0.00
32		Benzoic acid	0.217	0.238	-9.7	93	0.00
33		4-Chloroaniline	0.352	0.342	2.8	83	0.00
34	C	Hexachlorobutadiene	0.197	0.200	-1.5	87	0.00
35		Caprolactam	0.090	0.090	0.0	84	0.00
36	C	4-Chloro-3-methylphenol	0.314	0.305	2.9	83	0.00
37		2-Methylnaphthalene	0.632	0.620	1.9	85	0.00
38		1-Methylnaphthalene	0.620	0.606	2.3	85	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
40		1,2,4,5-Tetrachlorobenzene	0.540	0.541	-0.2	87	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.204	-8.5	89	0.00
42	S	2,4,6-Tribromophenol	0.187	0.206	-10.2	95	0.00
43	C	2,4,6-Trichlorophenol	0.382	0.403	-5.5	90	0.00
44		2,4,5-Trichlorophenol	0.394	0.393	0.3	85	0.00
45	S	2-Fluorobiphenyl	1.210	1.162	4.0	87	0.00
46		1,1'-Biphenyl	1.392	1.355	2.7	85	0.00
47		2-Chloronaphthalene	1.121	1.098	2.1	86	0.00

Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.343	0.363	-5.8	86	0.00
49		Acenaphthylene	1.621	1.589	2.0	85	0.00
50		Dimethylphthalate	1.246	1.215	2.5	85	0.00
51		2,6-Dinitrotoluene	0.270	0.288	-6.7	89	0.00
52	C	Acenaphthene	1.049	1.047	0.2	87	0.00
53		3-Nitroaniline	0.278	0.293	-5.4	87	0.00
54	P	2,4-Dinitrophenol	0.093	0.140	-50.5#	120	0.00
55		Dibenzofuran	1.505	1.468	2.5	86	0.00
56	P	4-Nitrophenol	0.214	0.233	-8.9	87	0.00
57		2,4-Dinitrotoluene	0.332	0.372	-12.0	90	0.00
58		Fluorene	1.146	1.120	2.3	87	0.00
59		2,3,4,6-Tetrachlorophenol	0.309	0.318	-2.9	89	0.00
60		Diethylphthalate	1.223	1.192	2.5	85	0.00
61		4-Chlorophenyl-phenylether	0.579	0.584	-0.9	89	0.00
62		4-Nitroaniline	0.263	0.278	-5.7	88	0.00
63		Azobenzene	1.297	1.216	6.2	81	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00
65		4,6-Dinitro-2-methylphenol	0.082	0.113	-37.8#	113	0.00
66	c	n-Nitrosodiphenylamine	0.599	0.579	3.3	85	0.00
67		4-Bromophenyl-phenylether	0.206	0.211	-2.4	91	0.00
68		Hexachlorobenzene	0.232	0.233	-0.4	88	0.00
69		Atrazine	0.162	0.165	-1.9	82	0.00
70	C	Pentachlorophenol	0.141	0.161	-14.2	92	0.00
71		Phenanthrene	0.945	0.906	4.1	84	0.00
72		Anthracene	0.922	0.896	2.8	85	0.00
73		Carbazole	0.857	0.815	4.9	84	0.00
74		Di-n-butylphthalate	0.990	0.951	3.9	81	0.00
75	C	Fluoranthene	0.955	0.921	3.6	85	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	87	0.00
77		Benzidine	0.329	0.410	-24.6	97	0.00
78		Pyrene	1.751	1.747	0.2	84	0.00
79	S	Terphenyl-d14	1.227	1.236	-0.7	86	0.00
80		Butylbenzylphthalate	0.525	0.536	-2.1	84	0.00
81		Benzo(a)anthracene	1.302	1.273	2.2	83	0.00
82		3,3'-Dichlorobenzidine	0.380	0.427	-12.4	95	0.00
83		Chrysene	1.194	1.169	2.1	87	0.00
84		Bis(2-ethylhexyl)phthalate	0.589	0.652	-10.7	90	0.00
85	c	Di-n-octyl phthalate	1.071	1.163	-8.6	89	0.00
86	I	Perylene-d12	1.000	1.000	0.0	90	0.00
87		Indeno(1,2,3-cd)pyrene	1.287	1.393	-8.2	93	0.01
88		Benzo(b)fluoranthene	1.218	1.240	-1.8	93	0.00
89		Benzo(k)fluoranthene	1.051	0.912	13.2	77	0.00
90	C	Benzo(a)pyrene	1.002	0.988	1.4	87	0.00
91		Dibenzo(a,h)anthracene	1.073	1.155	-7.6	93	0.00
92		Benzo(g,h,i)perylene	1.072	1.184	-10.4	95	0.00

Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	86	0.00
2		1,4-Dioxane	40.000	37.037	7.4	80	-0.02
3		Pyridine	40.000	36.885	7.8	78	-0.01
4		n-Nitrosodimethylamine	40.000	35.634	10.9	76	-0.02
5	S	2-Fluorophenol	80.000	75.624	5.5	81	0.00
6		Aniline	40.000	37.791	5.5	79	0.00
7	S	Phenol-d6	80.000	74.232	7.2	80	0.00
8		2-Chlorophenol	40.000	38.822	2.9	83	0.00
9		Benzaldehyde	40.000	34.967	12.6	75	0.00
10	C	Phenol	40.000	37.690	5.8	81	0.00
11		bis(2-Chloroethyl)ether	40.000	37.428	6.4	82	0.00
12		1,3-Dichlorobenzene	40.000	38.787	3.0	84	0.00
13	C	1,4-Dichlorobenzene	40.000	39.065	2.3	85	0.00
14		1,2-Dichlorobenzene	40.000	39.067	2.3	85	0.00
15		Benzyl Alcohol	40.000	37.958	5.1	82	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.635	10.9	76	0.00
17		2-Methylphenol	40.000	38.376	4.1	83	0.00
18		Hexachloroethane	40.000	39.057	2.4	83	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.267	9.3	80	0.00
20		3+4-Methylphenols	40.000	37.569	6.1	81	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	86	0.00
22		Acetophenone	40.000	37.892	5.3	83	0.00
23	S	Nitrobenzene-d5	80.000	81.286	-1.6	85	0.00
24		Nitrobenzene	40.000	39.191	2.0	82	0.00
25		Isophorone	40.000	37.861	5.3	82	0.00
26	C	2-Nitrophenol	40.000	46.760	-16.9	95	0.00
27		2,4-Dimethylphenol	40.000	37.893	5.3	81	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.381	4.0	83	0.00
29	C	2,4-Dichlorophenol	40.000	39.566	1.1	85	0.00
30		1,2,4-Trichlorobenzene	40.000	39.781	0.5	85	0.00
31		Naphthalene	40.000	39.095	2.3	84	0.00
32		Benzoic acid	40.000	43.797	-9.5	93	0.00
33		4-Chloroaniline	40.000	38.873	2.8	83	0.00
34	C	Hexachlorobutadiene	40.000	40.658	-1.6	87	0.00
35		Caprolactam	40.000	40.120	-0.3	84	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.812	3.0	83	0.00
37		2-Methylnaphthalene	40.000	39.227	1.9	85	0.00
38		1-Methylnaphthalene	40.000	39.120	2.2	85	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	87	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.075	-0.2	87	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.472	-8.7	89	0.00
42	S	2,4,6-Tribromophenol	80.000	88.103	-10.1	95	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.153	-5.4	90	0.00
44		2,4,5-Trichlorophenol	40.000	39.859	0.4	85	0.00
45	S	2-Fluorobiphenyl	80.000	76.849	3.9	87	0.00
46		1,1'-Biphenyl	40.000	38.918	2.7	85	0.00
47		2-Chloronaphthalene	40.000	39.181	2.0	86	0.00

Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	42.300	-5.7	86	0.00
49		Acenaphthylene	40.000	39.200	2.0	85	0.00
50		Dimethylphthalate	40.000	39.013	2.5	85	0.00
51		2,6-Dinitrotoluene	40.000	42.654	-6.6	89	0.00
52	C	Acenaphthene	40.000	39.935	0.2	87	0.00
53		3-Nitroaniline	40.000	42.145	-5.4	87	0.00
54	P	2,4-Dinitrophenol	40.000	52.556	-31.4#	120	0.00
55		Dibenzofuran	40.000	39.034	2.4	86	0.00
56	P	4-Nitrophenol	40.000	43.593	-9.0	87	0.00
57		2,4-Dinitrotoluene	40.000	44.817	-12.0	90	0.00
58		Fluorene	40.000	39.085	2.3	87	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.221	-3.1	89	0.00
60		Diethylphthalate	40.000	38.979	2.6	85	0.00
61		4-Chlorophenyl-phenylether	40.000	40.360	-0.9	89	0.00
62		4-Nitroaniline	40.000	42.376	-5.9	88	0.00
63		Azobenzene	40.000	37.507	6.2	81	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	87	0.00
65		4,6-Dinitro-2-methylphenol	40.000	55.496	-38.7#	113	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.723	3.2	85	0.00
67		4-Bromophenyl-phenylether	40.000	40.947	-2.4	91	0.00
68		Hexachlorobenzene	40.000	40.278	-0.7	88	0.00
69		Atrazine	40.000	40.631	-1.6	82	0.00
70	C	Pentachlorophenol	40.000	45.879	-14.7	92	0.00
71		Phenanthrene	40.000	38.377	4.1	84	0.00
72		Anthracene	40.000	38.865	2.8	85	0.00
73		Carbazole	40.000	38.023	4.9	84	0.00
74		Di-n-butylphthalate	40.000	38.399	4.0	81	0.00
75	C	Fluoranthene	40.000	38.592	3.5	85	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	87	0.00
77		Benzidine	40.000	49.870	-24.7	97	0.00
78		Pyrene	40.000	39.923	0.2	84	0.00
79	S	Terphenyl-d14	80.000	80.588	-0.7	86	0.00
80		Butylbenzylphthalate	40.000	40.854	-2.1	84	0.00
81		Benzo(a)anthracene	40.000	39.104	2.2	83	0.00
82		3,3'-Dichlorobenzidine	40.000	44.975	-12.4	95	0.00
83		Chrysene	40.000	39.187	2.0	87	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.280	-10.7	90	0.00
85	c	Di-n-octyl phthalate	40.000	43.437	-8.6	89	0.00
86	I	Perylene-d12	20.000	20.000	0.0	90	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	43.321	-8.3	93	0.01
88		Benzo(b)fluoranthene	40.000	40.699	-1.7	93	0.00
89		Benzo(k)fluoranthene	40.000	34.716	13.2	77	0.00
90	C	Benzo(a)pyrene	40.000	39.411	1.5	87	0.00
91		Dibenzo(a,h)anthracene	40.000	43.038	-7.6	93	0.00
92		Benzo(g,h,i)perylene	40.000	44.179	-10.4	95	0.00

Sample Results: **BF139952.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139952.D
Acq On : 23 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 11:08:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BF139965.D**

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: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 15:30

Lab File ID: BF139965.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.233		-3.5	
Benzaldehyde	0.931	0.939		0.9	
Phenol-d6	1.655	1.579		-4.6	
Phenol	1.706	1.663		-2.5	20.0
bis(2-Chloroethyl)ether	1.319	1.273		-3.5	
2-Chlorophenol	1.306	1.291		-1.1	
2-Methylphenol	1.114	1.099		-1.3	
2,2-oxybis(1-Chloropropane)	2.248	2.018		-10.2	
Acetophenone	0.490	0.467		-4.7	
3+4-Methylphenols	1.424	1.388		-2.5	
n-Nitroso-di-n-propylamine	1.004	0.918	0.050	-8.6	
Nitrobenzene-d5	0.361	0.370		2.5	
Hexachloroethane	0.534	0.530		-0.7	
Nitrobenzene	0.396	0.391		-1.3	
Isophorone	0.685	0.651		-5.0	
2-Nitrophenol	0.149	0.175		17.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.397		-4.3	
2,4-Dichlorophenol	0.283	0.283		0.0	20.0
Naphthalene	1.031	1.011		-1.9	
4-Chloroaniline	0.352	0.340		-3.4	
Hexachlorobutadiene	0.197	0.199		1.0	20.0
Caprolactam	0.090	0.092		2.2	
4-Chloro-3-methylphenol	0.314	0.308		-1.9	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.193	0.050	2.7	
2,4,6-Trichlorophenol	0.382	0.381		-0.3	20.0
2-Fluorobiphenyl	1.210	1.169		-3.4	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
1,1-Biphenyl	1.392	1.351		-2.9	
2-Chloronaphthalene	1.121	1.097		-2.1	
2-Nitroaniline	0.343	0.369		7.6	
Dimethylphthalate	1.246	1.226		-1.6	
Acenaphthylene	1.621	1.588		-2.0	
2,6-Dinitrotoluene	0.270	0.289		7.0	
3-Nitroaniline	0.278	0.292		5.0	
Acenaphthene	1.049	1.051		0.2	20.0
2,4-Dinitrophenol	0.093	0.139	0.050	49.5	
4-Nitrophenol	0.214	0.228	0.050	6.5	

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: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 15:30

Lab File ID: BF139965.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.458		-3.1	
2,4-Dinitrotoluene	0.332	0.379		14.2	
Diethylphthalate	1.223	1.211		-1.0	
4-Chlorophenyl-phenylether	0.579	0.574		-0.9	
Fluorene	1.146	1.118		-2.4	
4-Nitroaniline	0.263	0.280		6.5	
4,6-Dinitro-2-methylphenol	0.082	0.112		36.6	
n-Nitrosodiphenylamine	0.599	0.583		-2.7	20.0
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.211		2.4	
Hexachlorobenzene	0.232	0.234		0.9	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.157		11.3	20.0
Phenanthrene	0.945	0.920		-2.6	
Anthracene	0.922	0.894		-3.0	
Carbazole	0.857	0.815		-4.9	
Di-n-butylphthalate	0.990	0.956		-3.4	
Fluoranthene	0.955	0.893		-6.5	20.0
Pyrene	1.751	1.731		-1.1	
Terphenyl-d14	1.227	1.227		0.0	
Butylbenzylphthalate	0.525	0.540		2.9	
3,3-Dichlorobenzidine	0.380	0.447		17.6	
Benzo(a)anthracene	1.302	1.293		-0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.666		13.1	
Di-n-octyl phthalate	1.071	1.198		11.9	20.0
Benzo(b)fluoranthene	1.218	1.083		-11.1	
Benzo(k)fluoranthene	1.051	1.048		-0.3	
Benzo(a)pyrene	1.002	0.978		-2.4	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.280		-0.5	
Dibenzo(a,h)anthracene	1.073	1.060		-1.2	
Benzo(g,h,i)perylene	1.072	1.053		-1.8	
1,2,4,5-Tetrachlorobenzene	0.540	0.540		0.0	
1,4-Dioxane	0.596	0.581		-2.5	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF139965.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	159858	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	611382	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	340124	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	597021	20.000	ng	0.00
76) Chrysene-d12	14.057	240	306092	20.000	ng	0.00
86) Perylene-d12	15.533	264	358871	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	788397	77.208	ng	0.00
7) Phenol-d6	6.510	99	1009467	76.328	ng	0.00
23) Nitrobenzene-d5	7.451	82	905794	82.113	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	278197	87.444	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1590284	77.274	ng	0.00
79) Terphenyl-d14	12.998	244	1502801	80.002	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	185845	39.035	ng	95
3) Pyridine	3.434	79	459716	38.955	ng	97
4) n-Nitrosodimethylamine	3.381	42	230654	36.378	ng	95
6) Aniline	6.551	93	475331	38.564	ng	98
8) 2-Chlorophenol	6.675	128	412600	39.524	ng	99
9) Benzaldehyde	6.440	77	300182	40.347	ng	98
10) Phenol	6.528	94	531818m	39.005	ng	
11) bis(2-Chloroethyl)ether	6.628	93	406978	38.618	ng	99
12) 1,3-Dichlorobenzene	6.834	146	472163	39.402	ng	98
13) 1,4-Dichlorobenzene	6.910	146	474523	39.636	ng	99
14) 1,2-Dichlorobenzene	7.063	146	442180	39.574	ng	99
15) Benzyl Alcohol	7.028	79	367781	37.910	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	645310	35.911	ng	97
17) 2-Methylphenol	7.134	107	351315	39.467	ng	99
18) Hexachloroethane	7.404	117	169360	39.670	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	293648	36.609	ng	96
20) 3+4-Methylphenols	7.287	107	443838	38.982	ng	100
22) Acetophenone	7.298	105	571315	38.152	ng	97
24) Nitrobenzene	7.475	77	478277	39.545	ng	97
25) Isophorone	7.710	82	795494	37.995	ng	100
26) 2-Nitrophenol	7.787	139	213698	46.836	ng	95
27) 2,4-Dimethylphenol	7.816	122	292012	38.382	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	485228	38.252	ng	99
29) 2,4-Dichlorophenol	8.022	162	346373	39.971	ng	99
30) 1,2,4-Trichlorobenzene	8.116	180	379629	39.591	ng	99
31) Naphthalene	8.198	128	1236297	39.208	ng	100
32) Benzoic acid	7.922	122	295264	44.497	ng	96
33) 4-Chloroaniline	8.239	127	415421	38.637	ng	98
34) Hexachlorobutadiene	8.310	225	243614	40.436	ng	99
35) Caprolactam	8.610	113	112811	40.942	ng	91
36) 4-Chloro-3-methylphenol	8.716	107	376721	39.260	ng	97
37) 2-Methylnaphthalene	8.886	142	755327	39.114	ng	100
38) 1-Methylnaphthalene	8.986	142	735901	38.841	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	367476	40.047	ng	99
41) Hexachlorocyclopentadiene	9.039	237	131046	41.044	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	259164	39.893	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	282398	42.132	ng		97
46) 1,1'-Biphenyl	9.351	154	919167	38.820	ng		99
47) 2-Chloronaphthalene	9.375	162	746122	39.125	ng		100
48) 2-Nitroaniline	9.463	65	251224	43.073	ng		96
49) Acenaphthylene	9.792	152	1080134	39.178	ng		99
50) Dimethylphthalate	9.651	163	833862	39.360	ng		100
51) 2,6-Dinitrotoluene	9.710	165	196730	42.888	ng		94
52) Acenaphthene	9.963	154	714969	40.088	ng		99
53) 3-Nitroaniline	9.875	138	198559	41.975	ng		97
54) 2,4-Dinitrophenol	9.981	184	94482	52.057	ng	#	1
55) Dibenzofuran	10.133	168	991506	38.748	ng		99
56) 4-Nitrophenol	10.022	139	155364	42.690	ng		98
57) 2,4-Dinitrotoluene	10.110	165	257878	45.716	ng		96
58) Fluorene	10.475	166	760625	39.027	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	220241	41.916	ng		96
60) Diethylphthalate	10.345	149	823444	39.586	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	390596	39.685	ng		97
62) 4-Nitroaniline	10.486	138	190350	42.606	ng		97
63) Azobenzene	10.628	77	834020	37.820	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	133203	54.698	ng		94
66) n-Nitrosodiphenylamine	10.586	169	696657	38.988	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	251419	40.878	ng		98
68) Hexachlorobenzene	11.022	284	279424	40.396	ng		99
69) Atrazine	11.110	200	198207	40.949	ng		99
70) Pentachlorophenol	11.216	266	187195	44.591	ng		99
71) Phenanthrene	11.439	178	1098645	38.958	ng		99
72) Anthracene	11.492	178	1067309	38.790	ng		100
73) Carbazole	11.645	167	973648	38.049	ng		99
74) Di-n-butylphthalate	11.975	149	1141943	38.625	ng		100
75) Fluoranthene	12.627	202	1066456	37.408	ng		99
77) Benzidine	12.745	184	315575	62.699	ng		100
78) Pyrene	12.857	202	1059713	39.552	ng		100
80) Butylbenzylphthalate	13.474	149	330514	41.146	ng		99
81) Benzo(a)anthracene	14.045	228	791290	39.712	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	273674	47.107	ng		99
83) Chrysene	14.080	228	708425	38.777	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	407600	45.227	ng		100
85) Di-n-octyl phthalate	14.645	149	733157	44.726	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	918984	39.805	ng		98
88) Benzo(b)fluoranthene	15.098	252	777166	35.551	ng		100
89) Benzo(k)fluoranthene	15.127	252	752337	39.905	ng		99
90) Benzo(a)pyrene	15.468	252	702054	39.029	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	760841	39.504	ng		98
92) Benzo(g,h,i)perylene	17.480	276	756017	39.298	ng		100

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

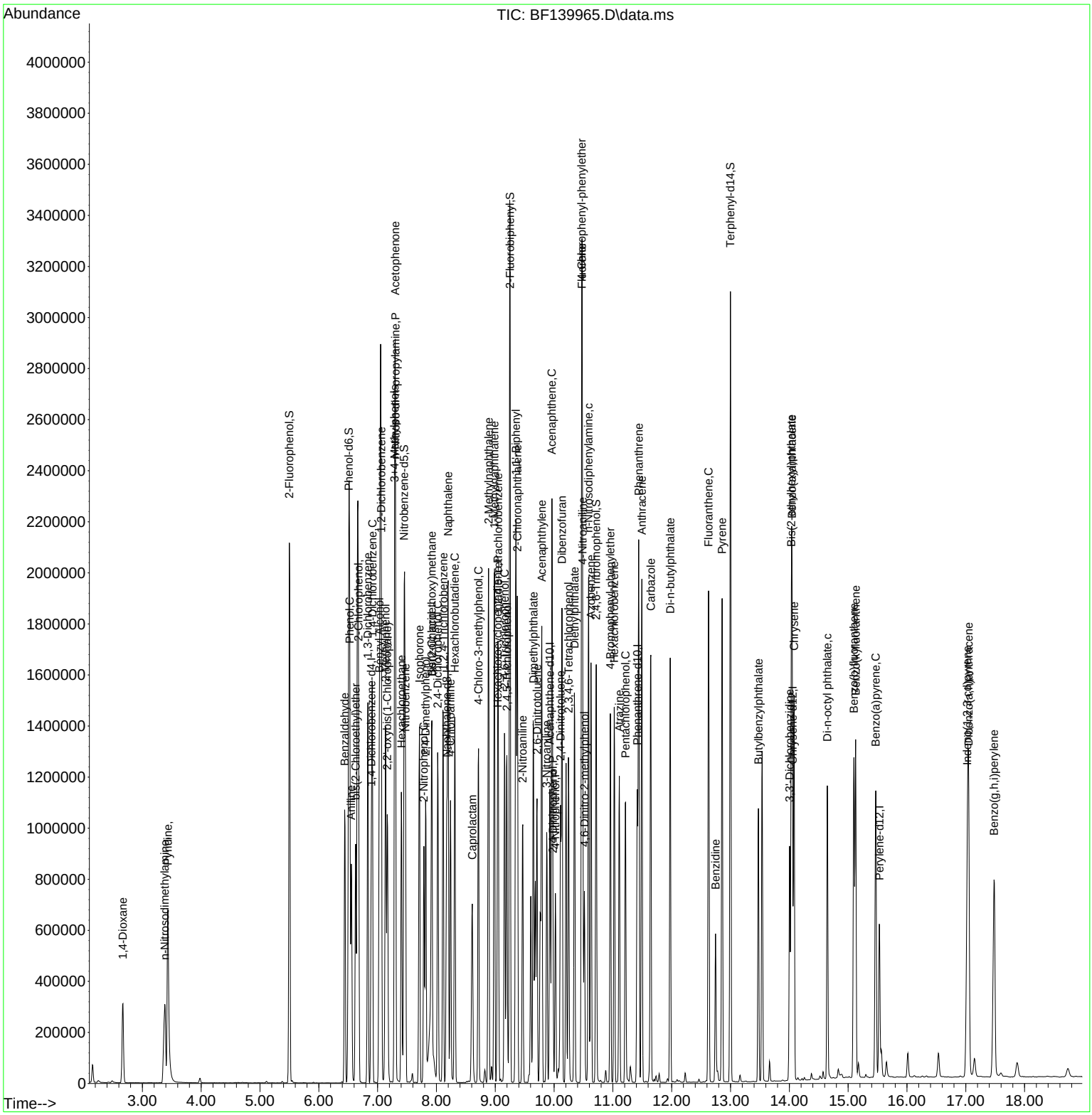
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024



Sample Results: **BF139965.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2		1,4-Dioxane	0.596	0.581	2.5	86	-0.02
3		Pyridine	1.476	1.438	2.6	84	-0.01
4		n-Nitrosodimethylamine	0.793	0.721	9.1	79	-0.02
5	S	2-Fluorophenol	1.278	1.233	3.5	85	0.00
6		Aniline	1.542	1.487	3.6	83	0.00
7	S	Phenol-d6	1.655	1.579	4.6	84	0.00
8		2-Chlorophenol	1.306	1.291	1.1	87	0.00
9		Benzaldehyde	0.931	0.939	-0.9	88	0.00
10	C	Phenol	1.706	1.663	2.5	85	0.00
11		bis(2-Chloroethyl)ether	1.319	1.273	3.5	86	0.00
12		1,3-Dichlorobenzene	1.499	1.477	1.5	87	0.00
13	C	1,4-Dichlorobenzene	1.498	1.484	0.9	88	0.00
14		1,2-Dichlorobenzene	1.398	1.383	1.1	88	0.00
15		Benzyl Alcohol	1.214	1.150	5.3	83	0.00
16		2,2'-oxybis(1-Chloropropane	2.248	2.018	10.2	79	0.00
17		2-Methylphenol	1.114	1.099	1.3	87	0.00
18		Hexachloroethane	0.534	0.530	0.7	86	0.00
19	P	n-Nitroso-di-n-propylamine	1.004	0.918	8.6	83	0.00
20		3+4-Methylphenols	1.424	1.388	2.5	86	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	89	0.00
22		Acetophenone	0.490	0.467	4.7	86	0.00
23	S	Nitrobenzene-d5	0.361	0.370	-2.5	89	0.00
24		Nitrobenzene	0.396	0.391	1.3	86	0.00
25		Isophorone	0.685	0.651	5.0	85	0.00
26	C	2-Nitrophenol	0.149	0.175	-17.4	99	0.00
27		2,4-Dimethylphenol	0.249	0.239	4.0	85	0.00
28		bis(2-Chloroethoxy)methane	0.415	0.397	4.3	86	0.00
29	C	2,4-Dichlorophenol	0.283	0.283	0.0	89	0.00
30		1,2,4-Trichlorobenzene	0.314	0.310	1.3	87	0.00
31		Naphthalene	1.031	1.011	1.9	88	0.00
32		Benzoic acid	0.217	0.241	-11.1	98	0.00
33		4-Chloroaniline	0.352	0.340	3.4	86	0.00
34	C	Hexachlorobutadiene	0.197	0.199	-1.0	90	0.00
35		Caprolactam	0.090	0.092	-2.2	89	0.00
36	C	4-Chloro-3-methylphenol	0.314	0.308	1.9	87	0.00
37		2-Methylnaphthalene	0.632	0.618	2.2	88	0.00
38		1-Methylnaphthalene	0.620	0.602	2.9	87	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
40		1,2,4,5-Tetrachlorobenzene	0.540	0.540	0.0	90	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.193	-2.7	87	0.00
42	S	2,4,6-Tribromophenol	0.187	0.204	-9.1	98	0.00
43	C	2,4,6-Trichlorophenol	0.382	0.381	0.3	88	0.00
44		2,4,5-Trichlorophenol	0.394	0.415	-5.3	93	0.00
45	S	2-Fluorobiphenyl	1.210	1.169	3.4	90	0.00
46		1,1'-Biphenyl	1.392	1.351	2.9	88	0.00
47		2-Chloronaphthalene	1.121	1.097	2.1	88	0.00

Sample Results: **BF139965.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.343	0.369	-7.6	91	0.00
49		Acenaphthylene	1.621	1.588	2.0	88	0.00
50		Dimethylphthalate	1.246	1.226	1.6	89	0.00
51		2,6-Dinitrotoluene	0.270	0.289	-7.0	92	0.00
52	C	Acenaphthene	1.049	1.051	-0.2	90	0.00
53		3-Nitroaniline	0.278	0.292	-5.0	89	0.00
54	P	2,4-Dinitrophenol	0.093	0.139	-49.5#	123	0.00
55		Dibenzofuran	1.505	1.458	3.1	88	0.00
56	P	4-Nitrophenol	0.214	0.228	-6.5	88	0.00
57		2,4-Dinitrotoluene	0.332	0.379	-14.2	95	0.00
58		Fluorene	1.146	1.118	2.4	90	0.00
59		2,3,4,6-Tetrachlorophenol	0.309	0.324	-4.9	94	0.00
60		Diethylphthalate	1.223	1.211	1.0	89	0.00
61		4-Chlorophenyl-phenylether	0.579	0.574	0.9	90	0.00
62		4-Nitroaniline	0.263	0.280	-6.5	91	0.00
63		Azobenzene	1.297	1.226	5.5	84	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
65		4,6-Dinitro-2-methylphenol	0.082	0.112	-36.6#	115	0.00
66	c	n-Nitrosodiphenylamine	0.599	0.583	2.7	88	0.00
67		4-Bromophenyl-phenylether	0.206	0.211	-2.4	94	0.00
68		Hexachlorobenzene	0.232	0.234	-0.9	91	0.00
69		Atrazine	0.162	0.166	-2.5	85	0.00
70	C	Pentachlorophenol	0.141	0.157	-11.3	93	0.00
71		Phenanthrene	0.945	0.920	2.6	89	0.00
72		Anthracene	0.922	0.894	3.0	88	0.00
73		Carbazole	0.857	0.815	4.9	87	0.00
74		Di-n-butylphthalate	0.990	0.956	3.4	85	0.00
75	C	Fluoranthene	0.955	0.893	6.5	85	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	89	0.00
77		Benzidine	0.329	0.515	-56.5#	125	0.00
78		Pyrene	1.751	1.731	1.1	85	0.00
79	S	Terphenyl-d14	1.227	1.227	0.0	87	0.00
80		Butylbenzylphthalate	0.525	0.540	-2.9	86	0.00
81		Benzo(a)anthracene	1.302	1.293	0.7	86	0.00
82		3,3'-Dichlorobenzidine	0.380	0.447	-17.6	102	0.00
83		Chrysene	1.194	1.157	3.1	88	0.00
84		Bis(2-ethylhexyl)phthalate	0.589	0.666	-13.1	94	0.00
85	c	Di-n-octyl phthalate	1.071	1.198	-11.9	93	0.00
86	I	Perylene-d12	1.000	1.000	0.0	98	0.00
87		Indeno(1,2,3-cd)pyrene	1.287	1.280	0.5	93	0.00
88		Benzo(b)fluoranthene	1.218	1.083	11.1	89	0.00
89		Benzo(k)fluoranthene	1.051	1.048	0.3	97	0.00
90	C	Benzo(a)pyrene	1.002	0.978	2.4	94	0.00
91		Dibenzo(a,h)anthracene	1.073	1.060	1.2	93	0.00
92		Benzo(g,h,i)perylene	1.072	1.053	1.8	92	0.00

Sample Results: **BF139965.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF139965.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	88	0.00
2		1,4-Dioxane	40.000	39.035	2.4	86	-0.02
3		Pyridine	40.000	38.955	2.6	84	-0.01
4		n-Nitrosodimethylamine	40.000	36.378	9.1	79	-0.02
5	S	2-Fluorophenol	80.000	77.208	3.5	85	0.00
6		Aniline	40.000	38.564	3.6	83	0.00
7	S	Phenol-d6	80.000	76.328	4.6	84	0.00
8		2-Chlorophenol	40.000	39.524	1.2	87	0.00
9		Benzaldehyde	40.000	40.347	-0.9	88	0.00
10	C	Phenol	40.000	39.005	2.5	85	0.00
11		bis(2-Chloroethyl)ether	40.000	38.618	3.5	86	0.00
12		1,3-Dichlorobenzene	40.000	39.402	1.5	87	0.00
13	C	1,4-Dichlorobenzene	40.000	39.636	0.9	88	0.00
14		1,2-Dichlorobenzene	40.000	39.574	1.1	88	0.00
15		Benzyl Alcohol	40.000	37.910	5.2	83	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.911	10.2	79	0.00
17		2-Methylphenol	40.000	39.467	1.3	87	0.00
18		Hexachloroethane	40.000	39.670	0.8	86	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.609	8.5	83	0.00
20		3+4-Methylphenols	40.000	38.982	2.5	86	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	89	0.00
22		Acetophenone	40.000	38.152	4.6	86	0.00
23	S	Nitrobenzene-d5	80.000	82.113	-2.6	89	0.00
24		Nitrobenzene	40.000	39.545	1.1	86	0.00
25		Isophorone	40.000	37.995	5.0	85	0.00
26	C	2-Nitrophenol	40.000	46.836	-17.1	99	0.00
27		2,4-Dimethylphenol	40.000	38.382	4.0	85	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.252	4.4	86	0.00
29	C	2,4-Dichlorophenol	40.000	39.971	0.1	89	0.00
30		1,2,4-Trichlorobenzene	40.000	39.591	1.0	87	0.00
31		Naphthalene	40.000	39.208	2.0	88	0.00
32		Benzoic acid	40.000	44.497	-11.2	98	0.00
33		4-Chloroaniline	40.000	38.637	3.4	86	0.00
34	C	Hexachlorobutadiene	40.000	40.436	-1.1	90	0.00
35		Caprolactam	40.000	40.942	-2.4	89	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.260	1.9	87	0.00
37		2-Methylnaphthalene	40.000	39.114	2.2	88	0.00
38		1-Methylnaphthalene	40.000	38.841	2.9	87	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	90	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.047	-0.1	90	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.044	-2.6	87	0.00
42	S	2,4,6-Tribromophenol	80.000	87.444	-9.3	98	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.893	0.3	88	0.00
44		2,4,5-Trichlorophenol	40.000	42.132	-5.3	93	0.00
45	S	2-Fluorobiphenyl	80.000	77.274	3.4	90	0.00
46		1,1'-Biphenyl	40.000	38.820	2.9	88	0.00
47		2-Chloronaphthalene	40.000	39.125	2.2	88	0.00

Sample Results: **BF139965.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	43.073	-7.7	91	0.00
49		Acenaphthylene	40.000	39.178	2.1	88	0.00
50		Dimethylphthalate	40.000	39.360	1.6	89	0.00
51		2,6-Dinitrotoluene	40.000	42.888	-7.2	92	0.00
52	C	Acenaphthene	40.000	40.088	-0.2	90	0.00
53		3-Nitroaniline	40.000	41.975	-4.9	89	0.00
54	P	2,4-Dinitrophenol	40.000	52.057	-30.1#	123	0.00
55		Dibenzofuran	40.000	38.748	3.1	88	0.00
56	P	4-Nitrophenol	40.000	42.690	-6.7	88	0.00
57		2,4-Dinitrotoluene	40.000	45.716	-14.3	95	0.00
58		Fluorene	40.000	39.027	2.4	90	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.916	-4.8	94	0.00
60		Diethylphthalate	40.000	39.586	1.0	89	0.00
61		4-Chlorophenyl-phenylether	40.000	39.685	0.8	90	0.00
62		4-Nitroaniline	40.000	42.606	-6.5	91	0.00
63		Azobenzene	40.000	37.820	5.4	84	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	90	0.00
65		4,6-Dinitro-2-methylphenol	40.000	54.698	-36.7#	115	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.988	2.5	88	0.00
67		4-Bromophenyl-phenylether	40.000	40.878	-2.2	94	0.00
68		Hexachlorobenzene	40.000	40.396	-1.0	91	0.00
69		Atrazine	40.000	40.949	-2.4	85	0.00
70	C	Pentachlorophenol	40.000	44.591	-11.5	93	0.00
71		Phenanthrene	40.000	38.958	2.6	89	0.00
72		Anthracene	40.000	38.790	3.0	88	0.00
73		Carbazole	40.000	38.049	4.9	87	0.00
74		Di-n-butylphthalate	40.000	38.625	3.4	85	0.00
75	C	Fluoranthene	40.000	37.408	6.5	85	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	89	0.00
77		Benzidine	40.000	62.699	-56.7#	125	0.00
78		Pyrene	40.000	39.552	1.1	85	0.00
79	S	Terphenyl-d14	80.000	80.002	-0.0	87	0.00
80		Butylbenzylphthalate	40.000	41.146	-2.9	86	0.00
81		Benzo(a)anthracene	40.000	39.712	0.7	86	0.00
82		3,3'-Dichlorobenzidine	40.000	47.107	-17.8	102	0.00
83		Chrysene	40.000	38.777	3.1	88	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	45.227	-13.1	94	0.00
85	c	Di-n-octyl phthalate	40.000	44.726	-11.8	93	0.00
86	I	Perylene-d12	20.000	20.000	0.0	98	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.805	0.5	93	0.00
88		Benzo(b)fluoranthene	40.000	35.551	11.1	89	0.00
89		Benzo(k)fluoranthene	40.000	39.905	0.2	97	0.00
90	C	Benzo(a)pyrene	40.000	39.029	2.4	94	0.00
91		Dibenzo(a,h)anthracene	40.000	39.504	1.2	93	0.00
92		Benzo(g,h,i)perylene	40.000	39.298	1.8	92	0.00

Sample Results: **BF139965.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139965.D
Acq On : 23 Oct 2024 15:30
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 23 16:12:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

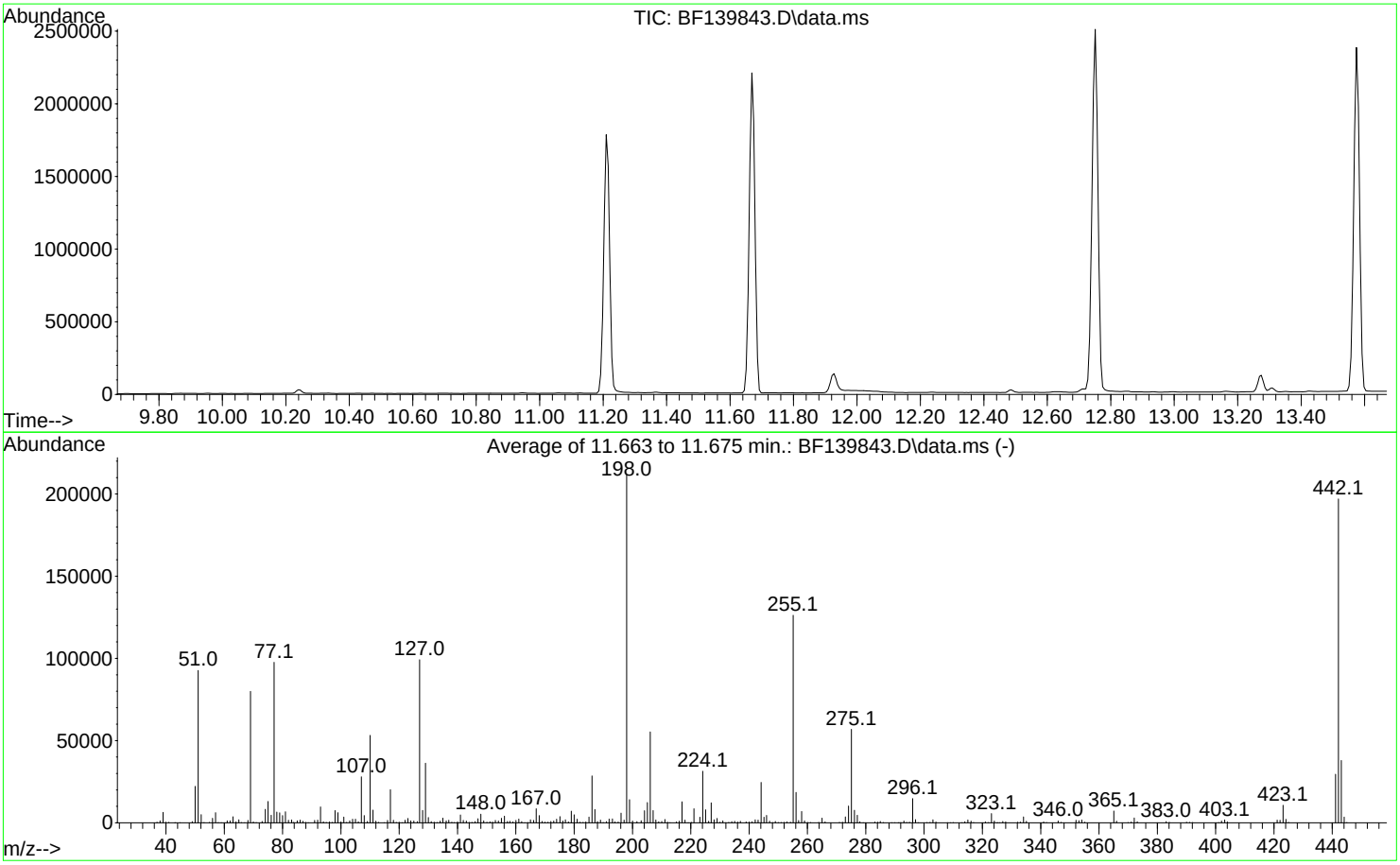
Sample Results: **BF139843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1621

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.8	92701	PASS
68	69	0.00	2	1.9	1486	PASS
69	198	0.00	100	37.8	79959	PASS
70	69	0.00	2	0.7	529	PASS
127	198	10	80	46.9	99176	PASS
197	198	0.00	2	0.8	1650	PASS
198	198	100	100	100.0	211520	PASS
199	198	5	9	6.7	14078	PASS
275	198	10	60	26.9	56867	PASS
365	198	1	100	3.4	7148	PASS
441	198	0.01	100	14.0	29512	PASS
442	442	50	100	100.0	196979	PASS
443	442	15	24	19.2	37896	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/18/2024	BNA_F	BF139843.D
Compound Name	**Response**	**Retention Time**
DDT	585942	13.574
DDD	33558	13.274
DDE	421	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
33979	619921	5.48

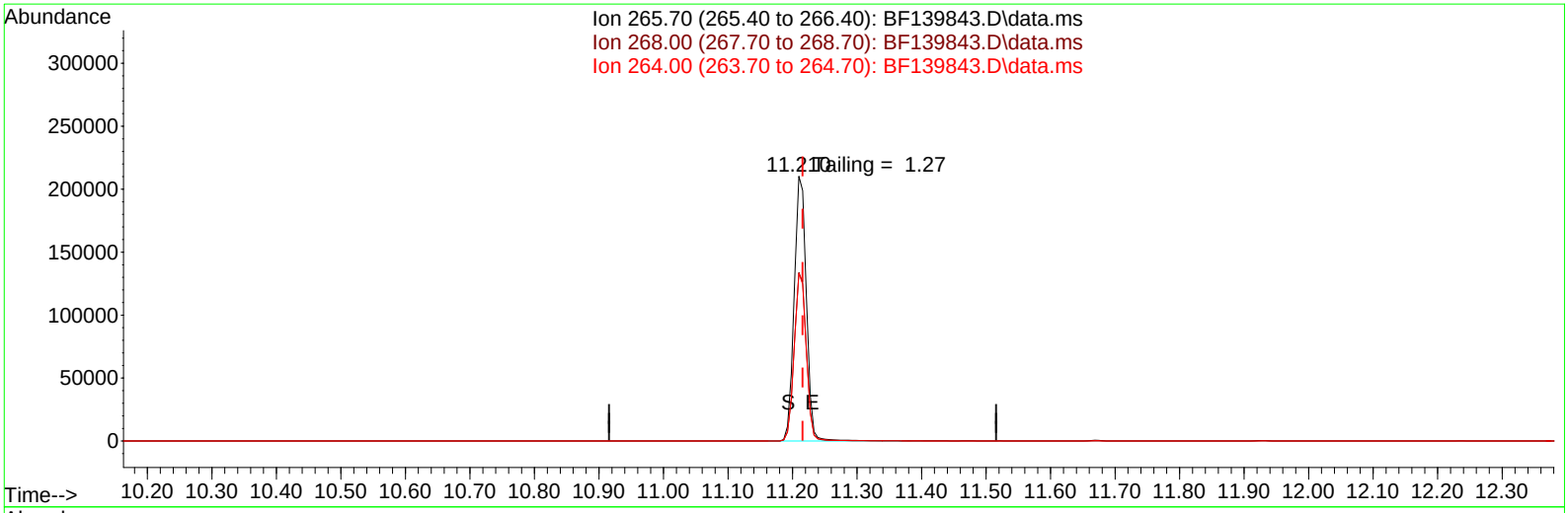
Instrument :
BNA_F
ClientSampleId :
DFTPP

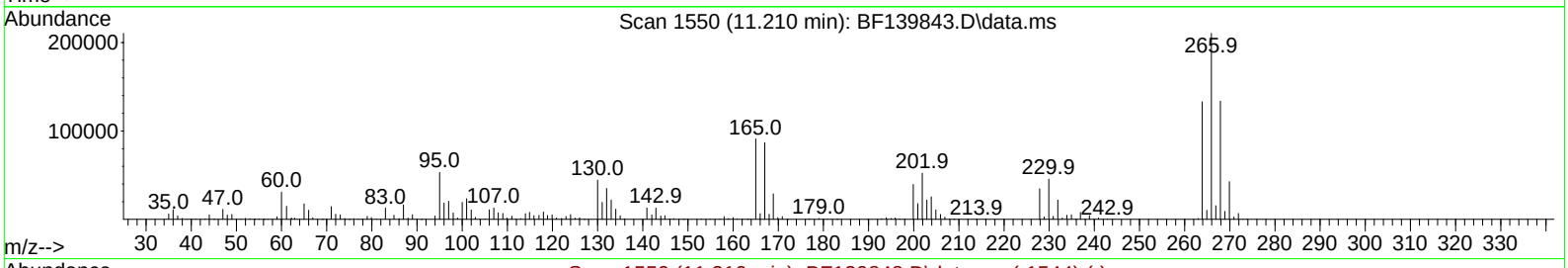
Sample Results: **BF139843.D**

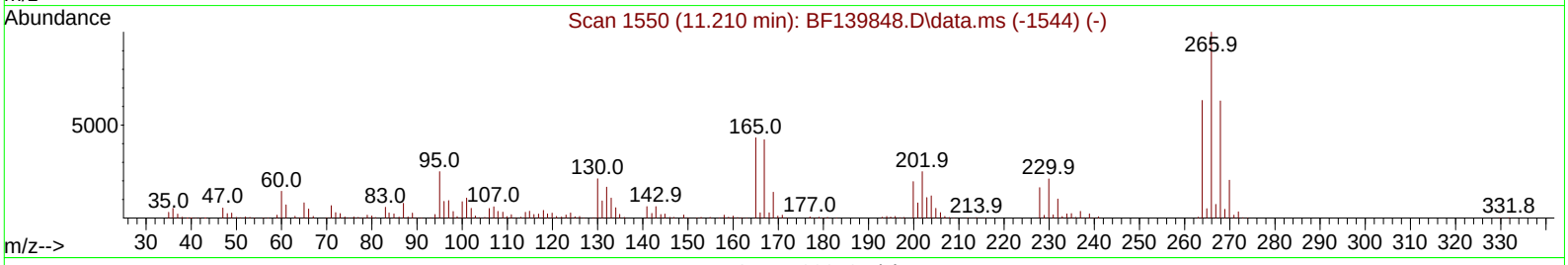
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration







TIC: BF139843.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.006) 60102.24 ng

response 277191

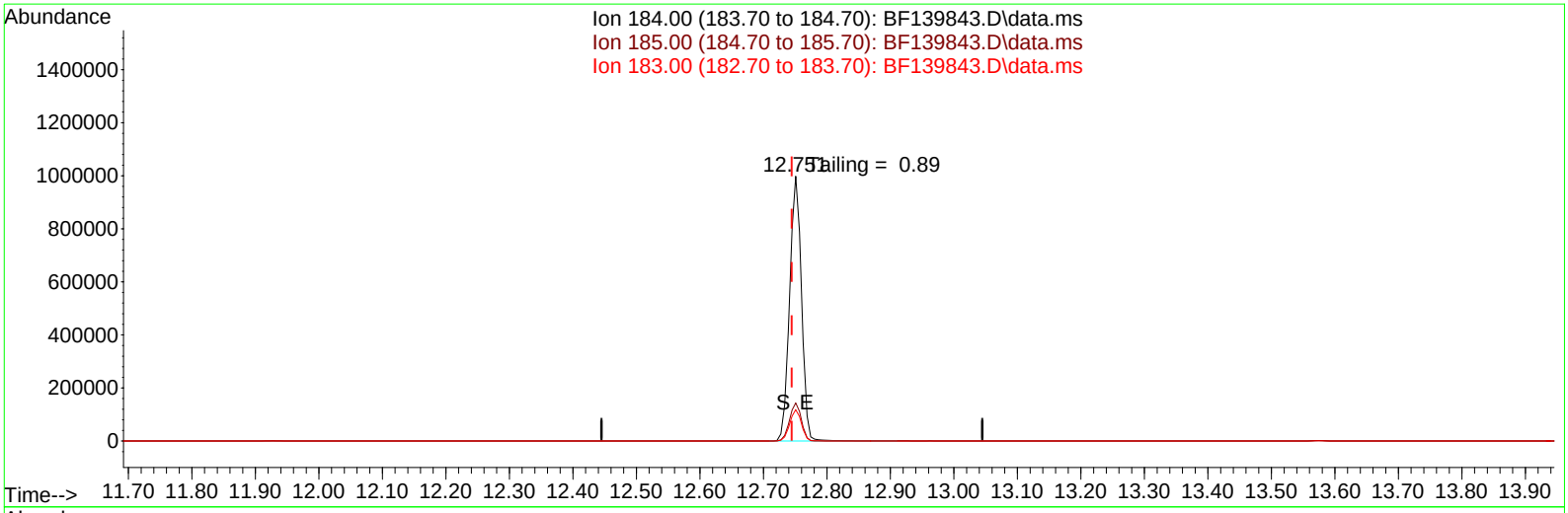
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.60
264.00	62.50	63.30
0.00	0.00	0.00

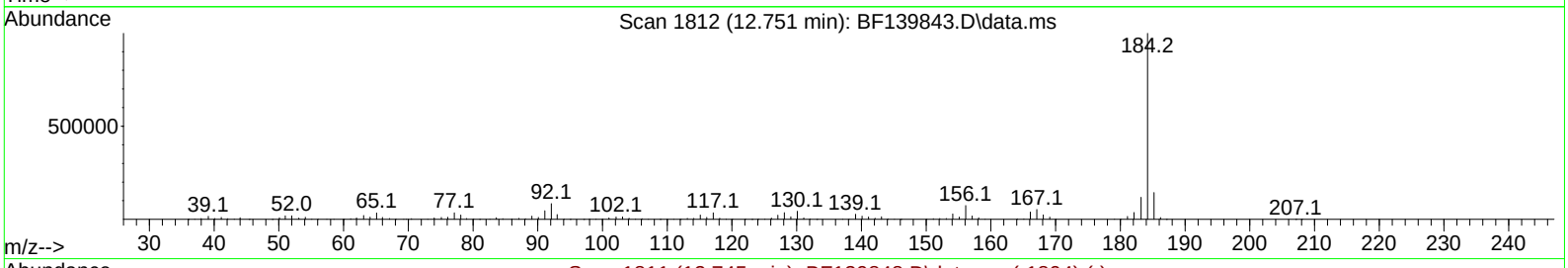
Sample Results: **BF139843.D**

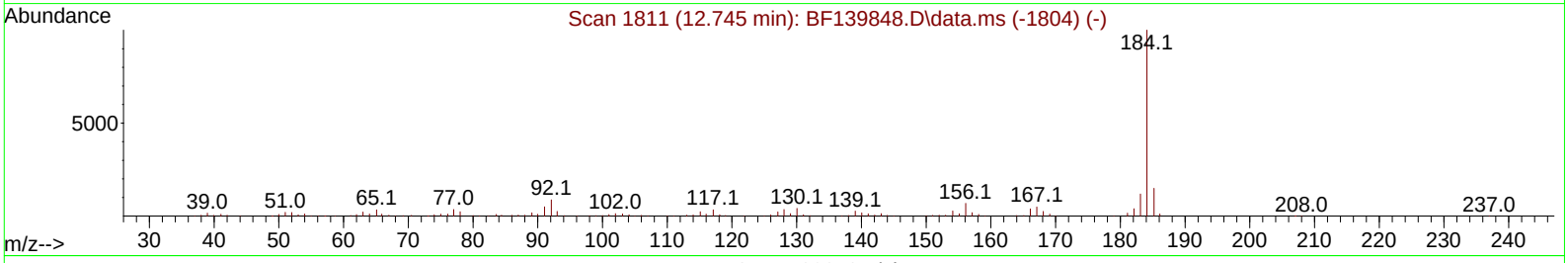
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration







TIC: BF139843.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 86231.01 ng

response 1303015

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.39
183.00	11.70	11.82
0.00	0.00	0.00

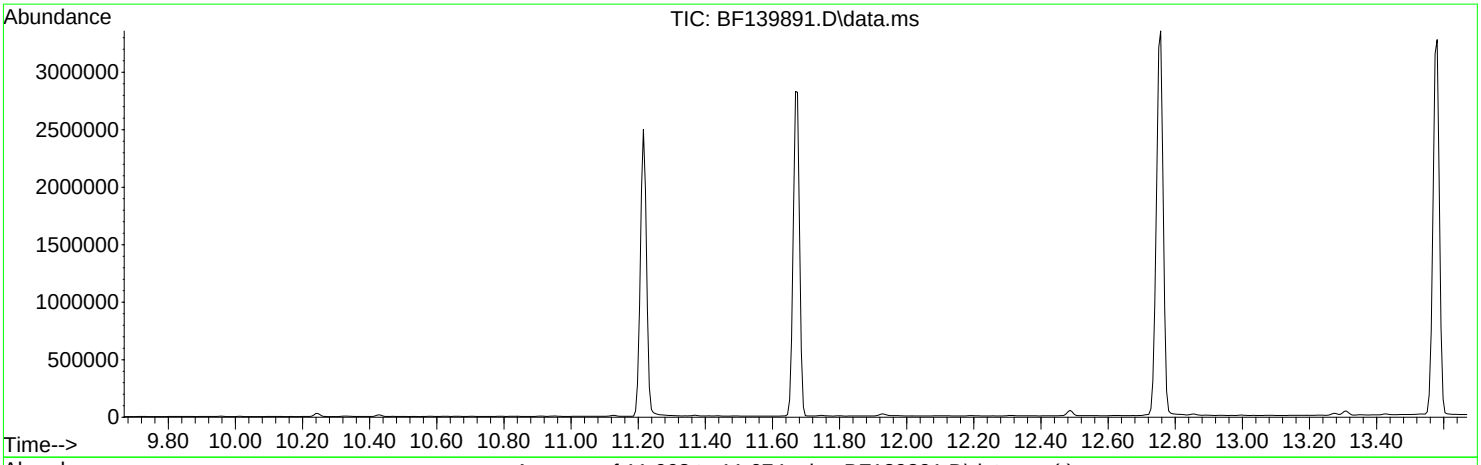
Sample Results: **BF139891.D**

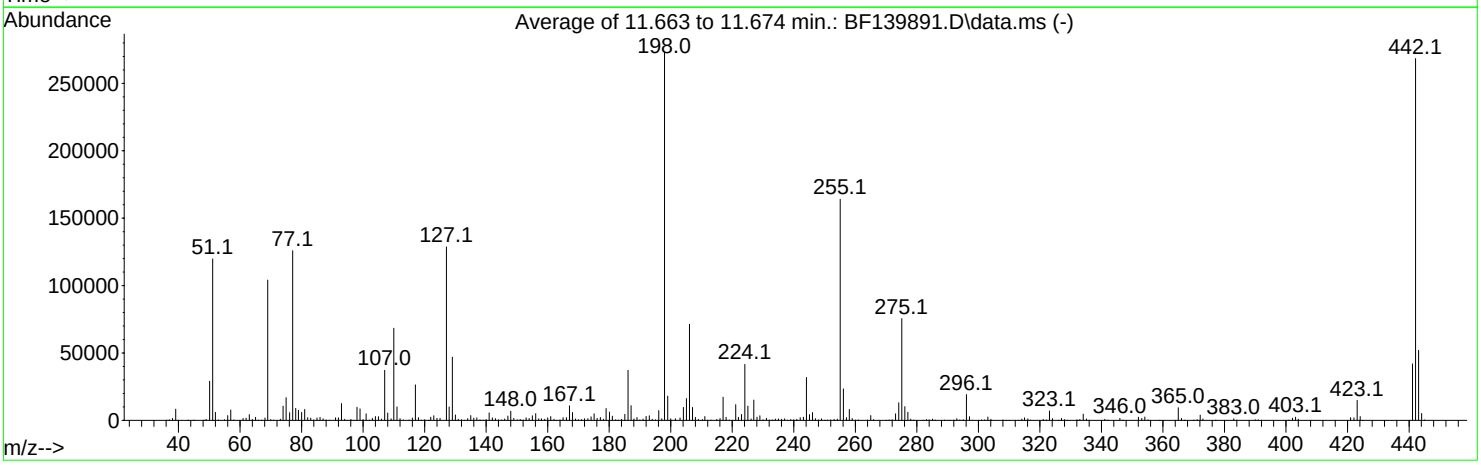
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139891.D
Acq On : 21 Oct 2024 09:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024





AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1621

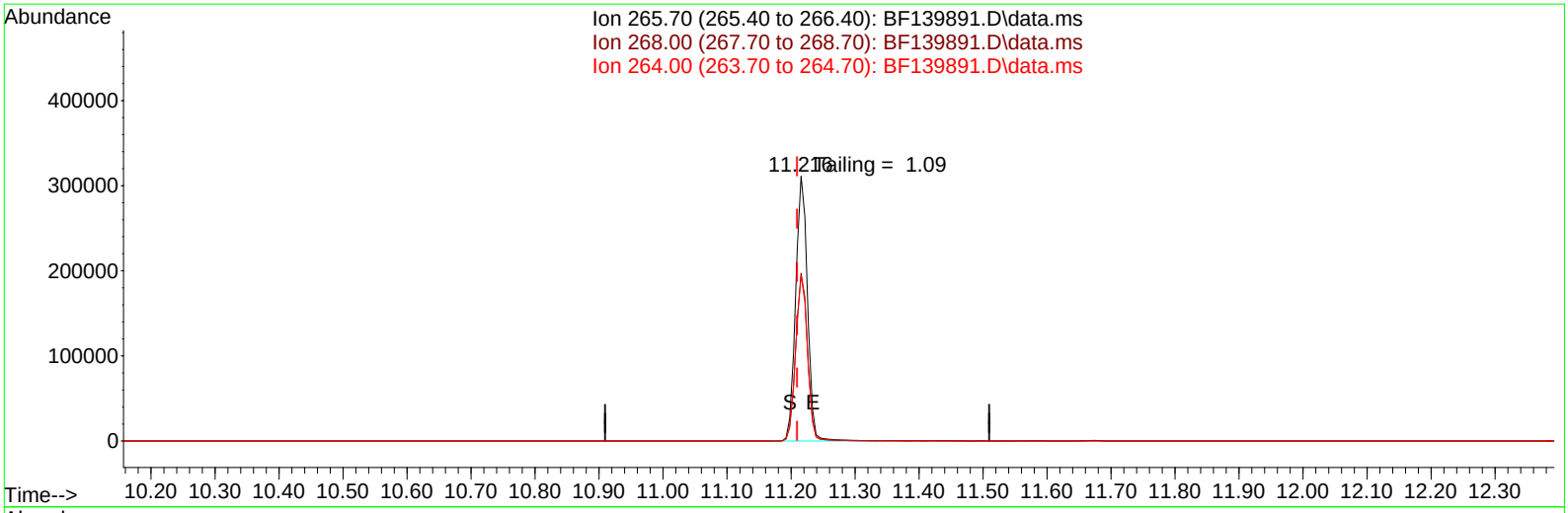
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.9	119787	PASS
68	69	0.00	2	1.7	1765	PASS
69	198	0.00	100	38.2	104142	PASS
70	69	0.00	2	0.6	599	PASS
127	198	10	80	47.1	128648	PASS
197	198	0.00	2	0.4	1218	PASS
198	198	100	100	100.0	272917	PASS
199	198	5	9	6.6	18009	PASS
275	198	10	60	27.7	75493	PASS
365	198	1	100	3.5	9452	PASS
441	198	0.01	100	15.4	41963	PASS
442	442	50	100	100.0	268416	PASS
443	442	15	24	19.4	51981	PASS

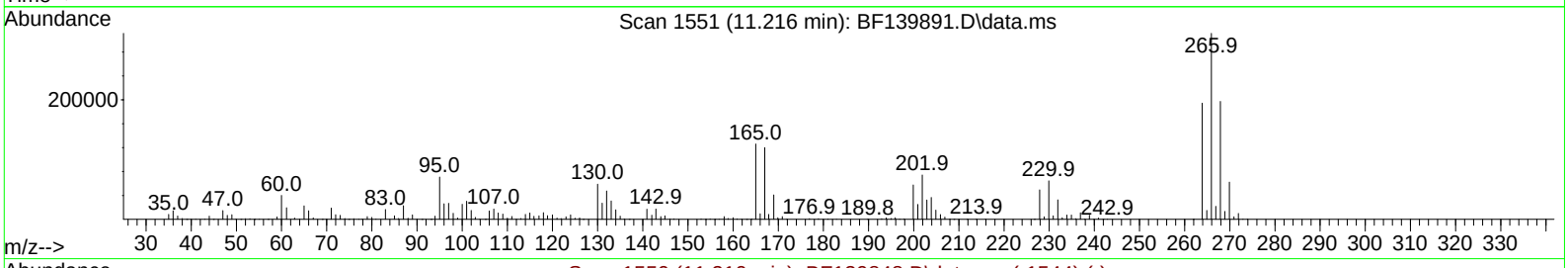
Sample Results: **BF139891.D**

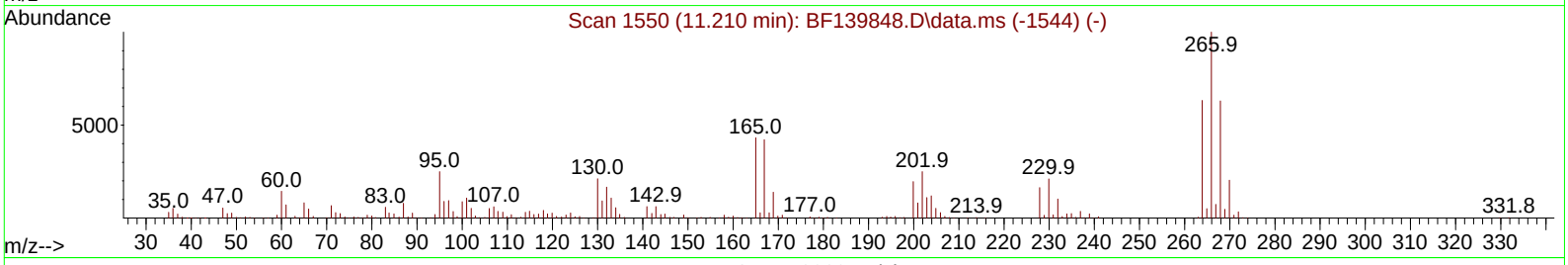
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139891.D
Acq On : 21 Oct 2024 09:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 21 11:06:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139891.D\data.ms

(70) Pentachlorophenol (C)

11.216min (+ 0.006) 62101.95 ng

response 401749

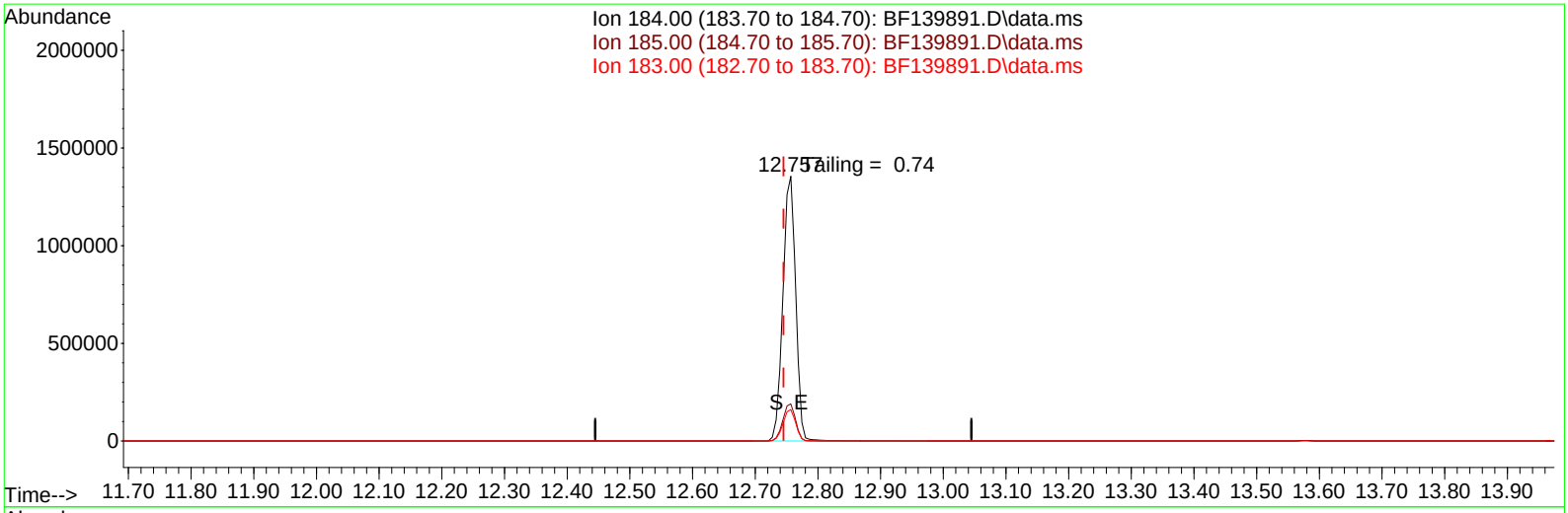
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.39
264.00	63.20	62.51
0.00	0.00	0.00

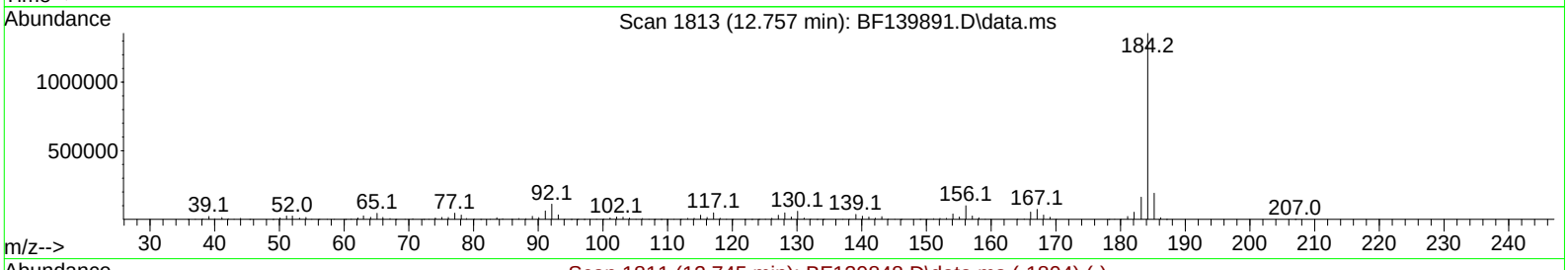
Sample Results: **BF139891.D**

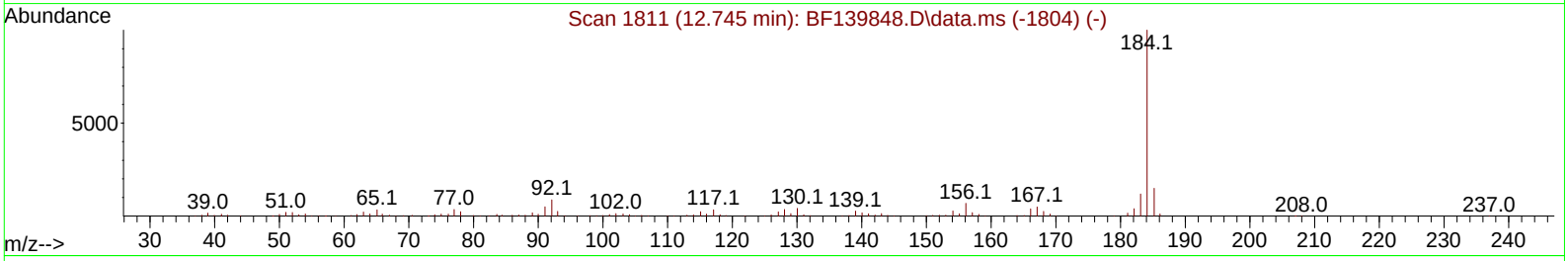
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139891.D
Acq On : 21 Oct 2024 09:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 21 11:06:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139891.D\data.ms

(77) Benzidine

12.757min (+ 0.012) 76266.80 ng

response 1925021

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.03
183.00	11.80	11.90
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/21/2024	BNA_F	BF139891.D
Compound Name	**Response**	**Retention Time**
DDT	854790	13.58
DDD	11947	13.31
DDE	336	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12283	867073	1.42

Instrument :
BNA_F
ClientSampleId :
DFTPP

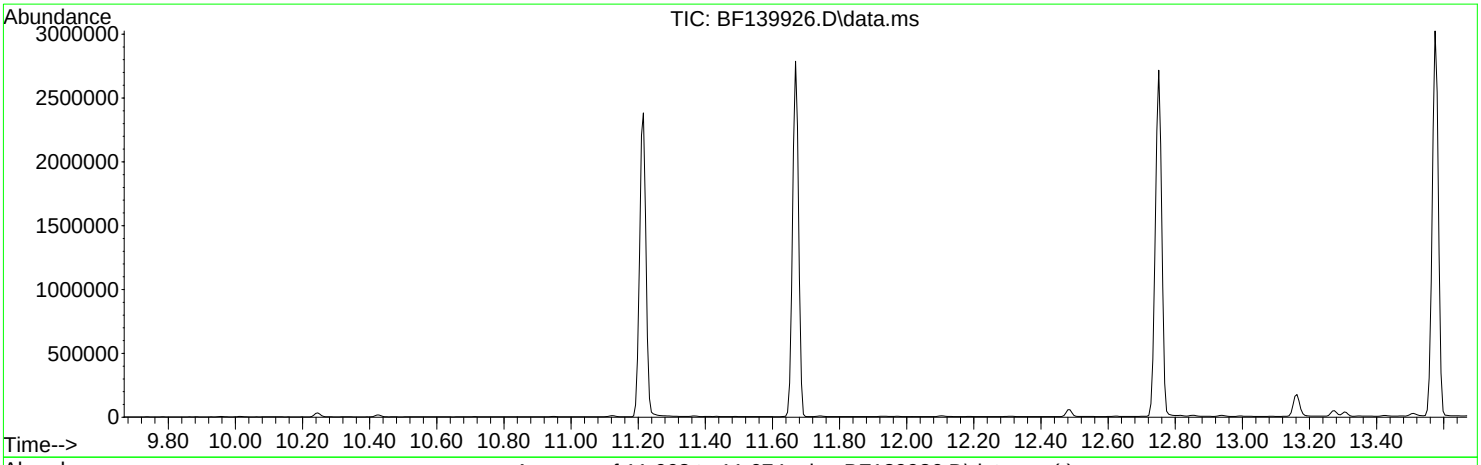
Sample Results: **BF139926.D**

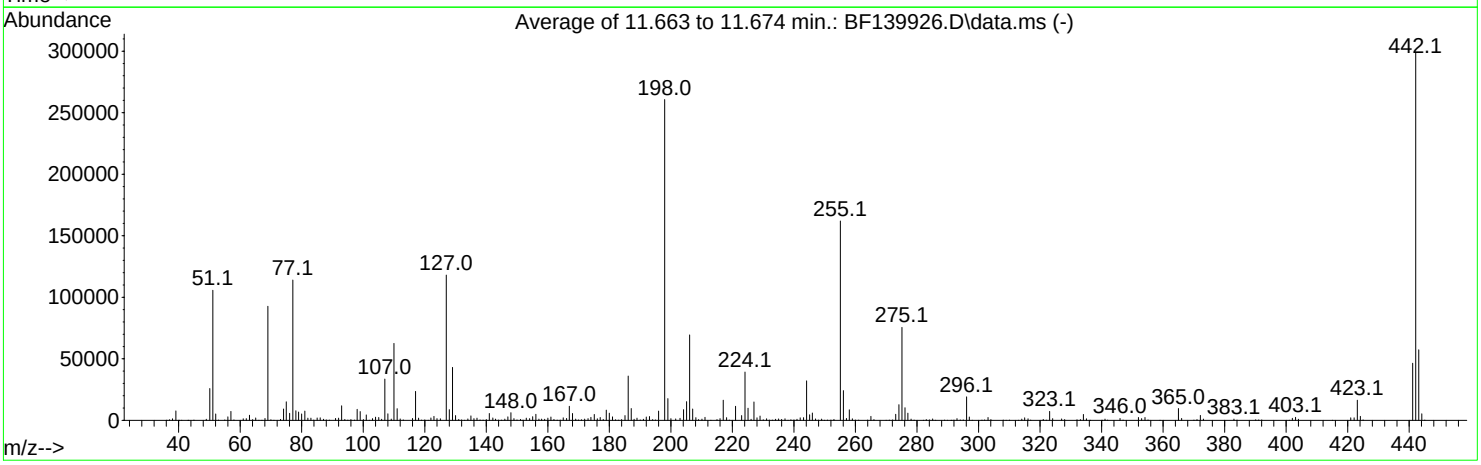
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139926.D
Acq On : 22 Oct 2024 14:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024





AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

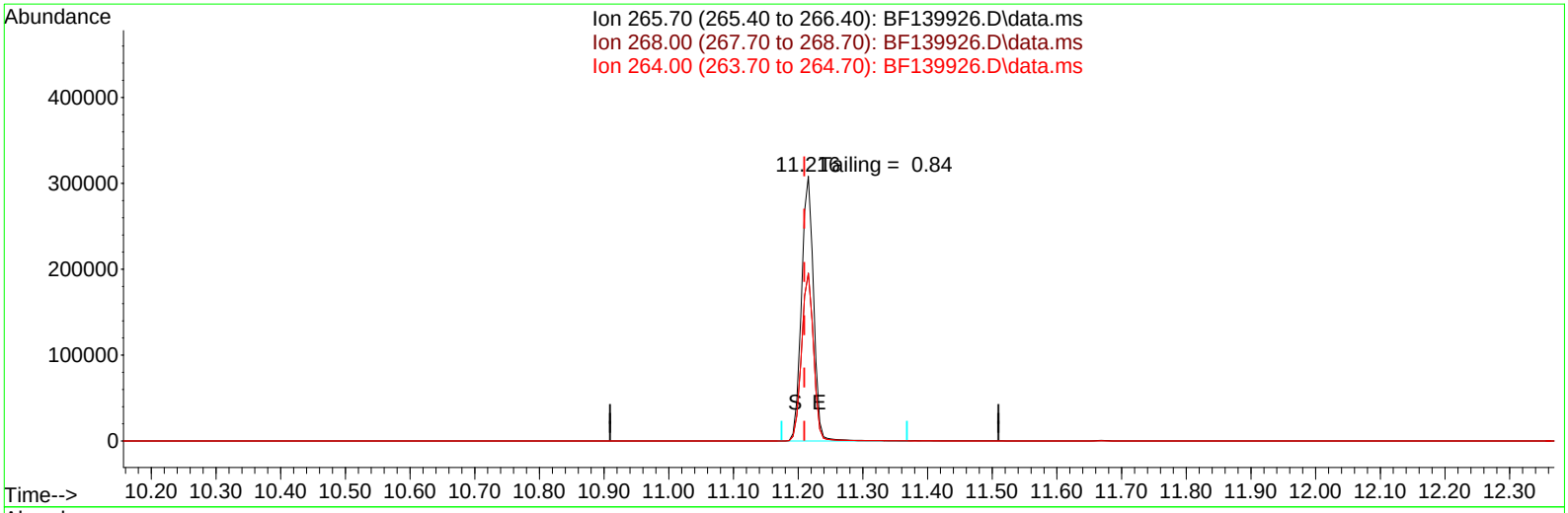
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.6	105765	PASS
68	69	0.00	2	1.7	1602	PASS
69	198	0.00	100	35.6	92720	PASS
70	69	0.00	2	0.6	550	PASS
127	198	10	80	45.3	118056	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	260715	PASS
199	198	5	9	6.8	17717	PASS
275	198	10	60	29.0	75581	PASS
365	198	1	100	3.7	9606	PASS
441	198	0.01	100	17.8	46395	PASS
442	442	50	100	100.0	298923	PASS
443	442	15	24	19.2	57373	PASS

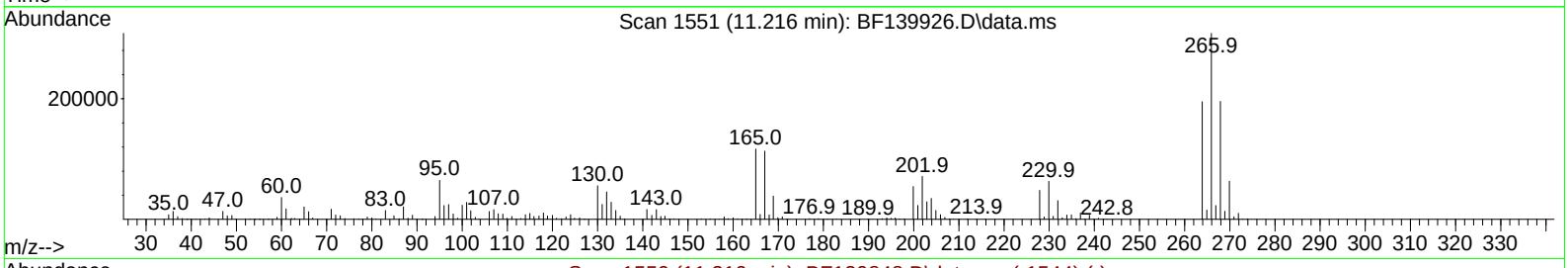
Sample Results: **BF139926.D**

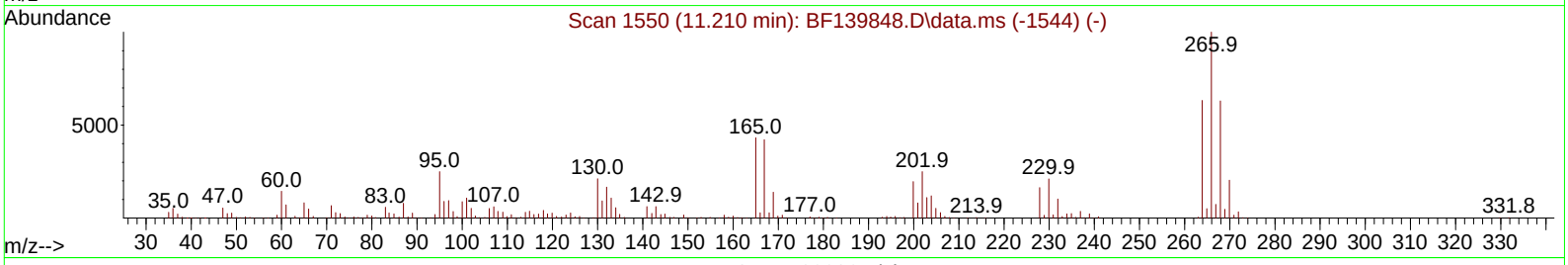
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139926.D
Acq On : 22 Oct 2024 14:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 22 14:41:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139926.D\data.ms

(70) Pentachlorophenol (C)

11.216min (+ 0.006) 57892.68 ng

response 400979

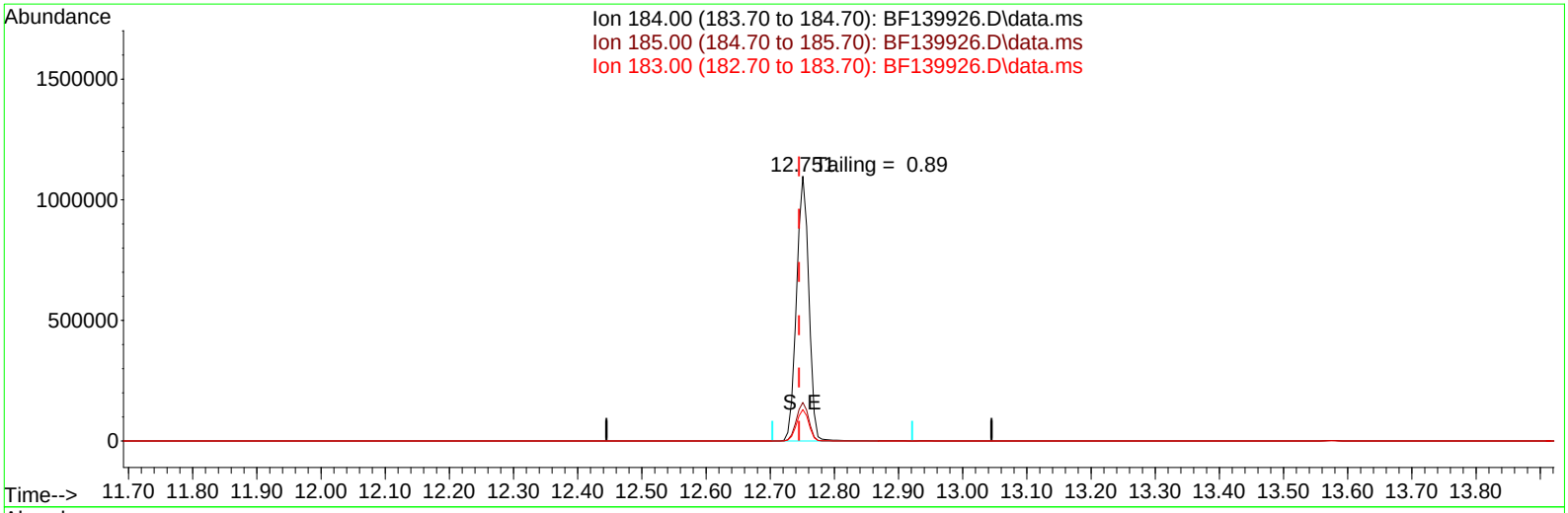
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.45
264.00	63.20	63.28
0.00	0.00	0.00

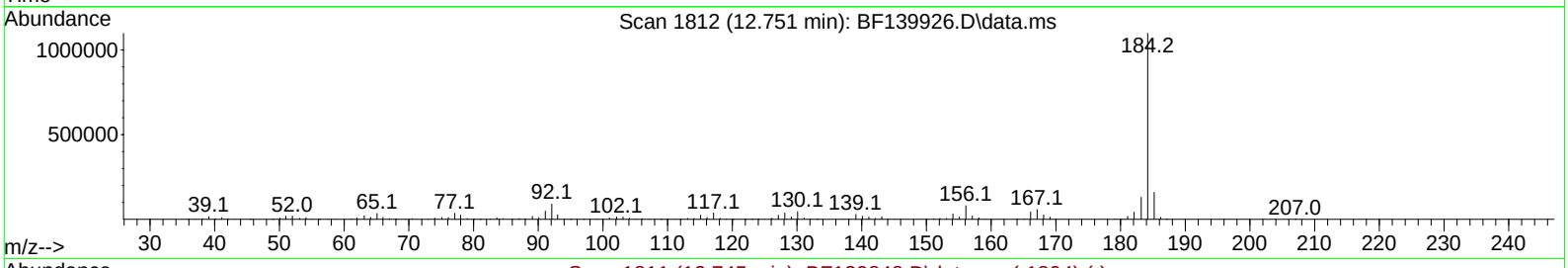
Sample Results: **BF139926.D**

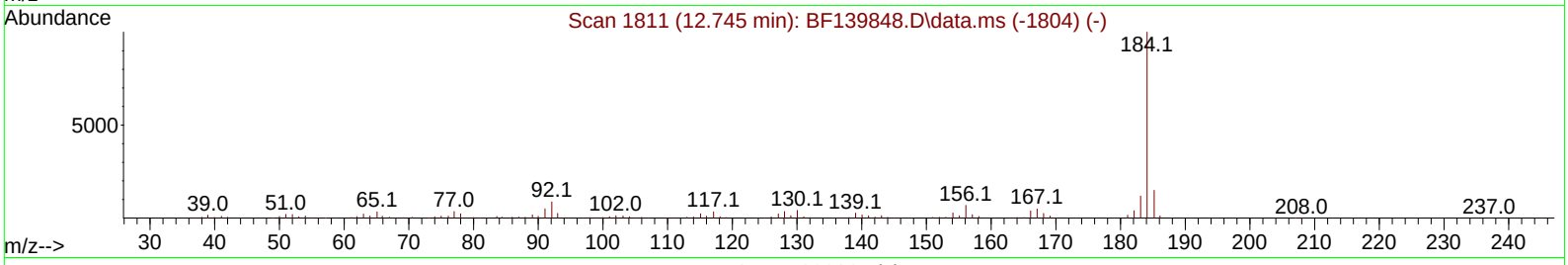
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139926.D
Acq On : 22 Oct 2024 14:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 22 14:41:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139926.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 78165.14 ng

response 1467813

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.58
183.00	11.80	11.86
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/22/2024	BNA_F	BF139926.D
Compound Name	**Response**	**Retention Time**
DDT	777904	13.574
DDD	19547	13.274
DDE	2185	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
21732	799636	2.72

Instrument :
BNA_F
ClientSampleId :
DFTPP

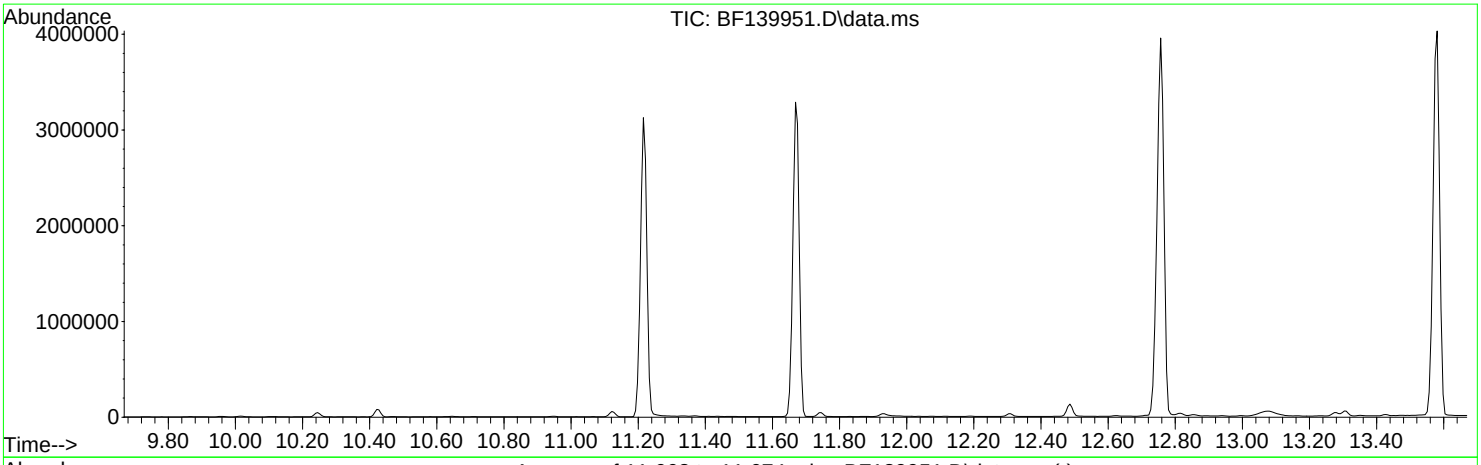
Sample Results: **BF139951.D**

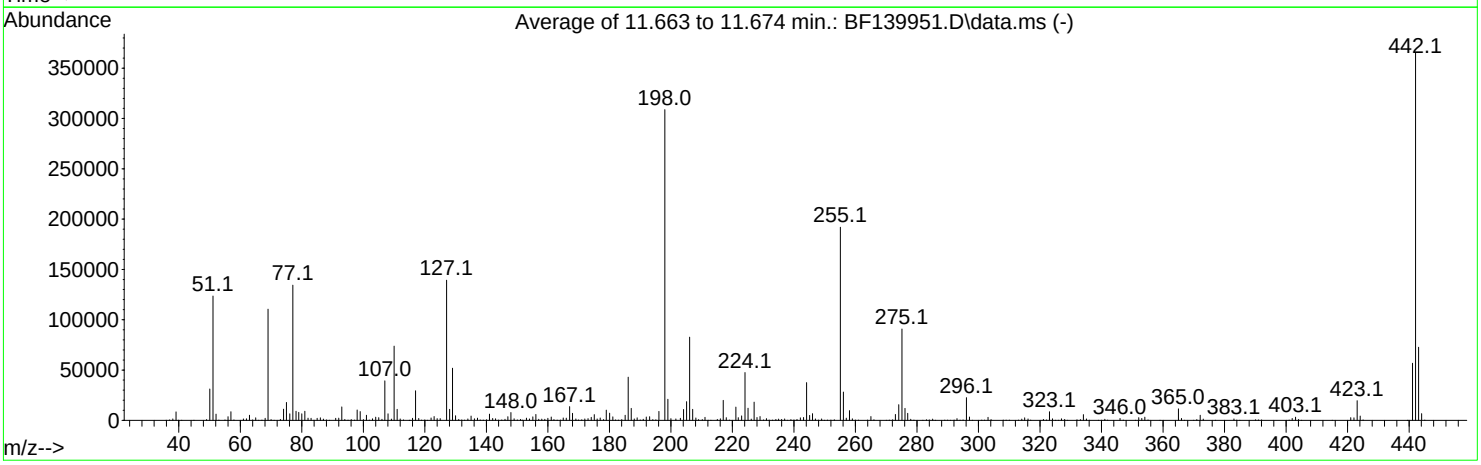
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139951.D
Acq On : 23 Oct 2024 08:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024





AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.0	123525	PASS
68	69	0.00	2	1.8	2014	PASS
69	198	0.00	100	35.8	110510	PASS
70	69	0.00	2	0.7	742	PASS
127	198	10	80	45.1	139315	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	308736	PASS
199	198	5	9	6.8	21040	PASS
275	198	10	60	29.4	90893	PASS
365	198	1	100	3.7	11511	PASS
441	198	0.01	100	18.4	56747	PASS
442	442	50	100	100.0	365589	PASS
443	442	15	24	19.9	72741	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/23/2024	BNA_F	BF139951.D
Compound Name	**Response**	**Retention Time**
DDT	1114000	13.58
DDD	17745	13.31
DDE	1145	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
18890	1132890	1.67

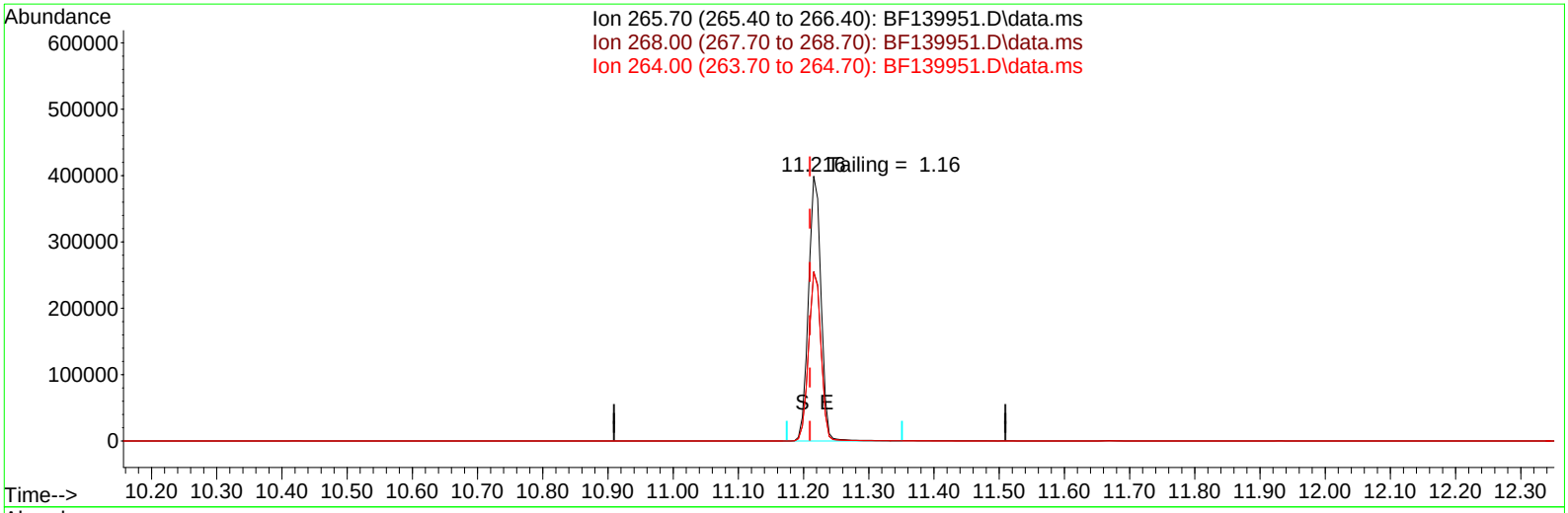
Instrument :
BNA_F
ClientSampleId :
DFTPP

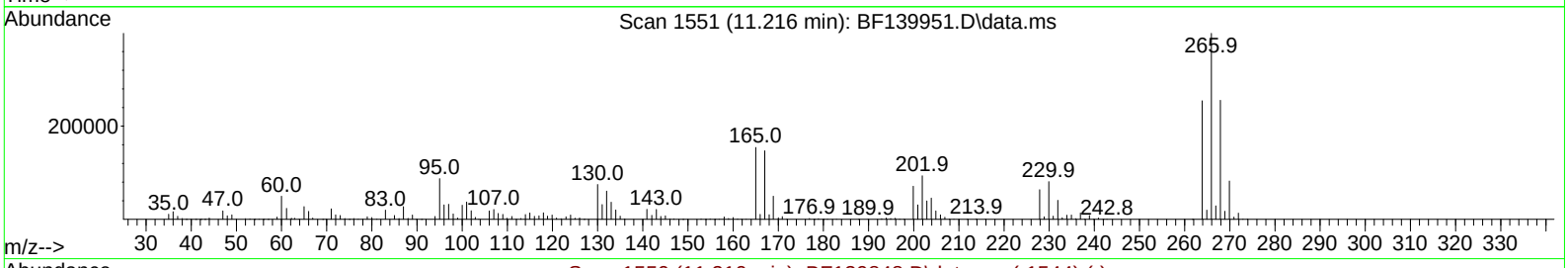
Sample Results: **BF139951.D**

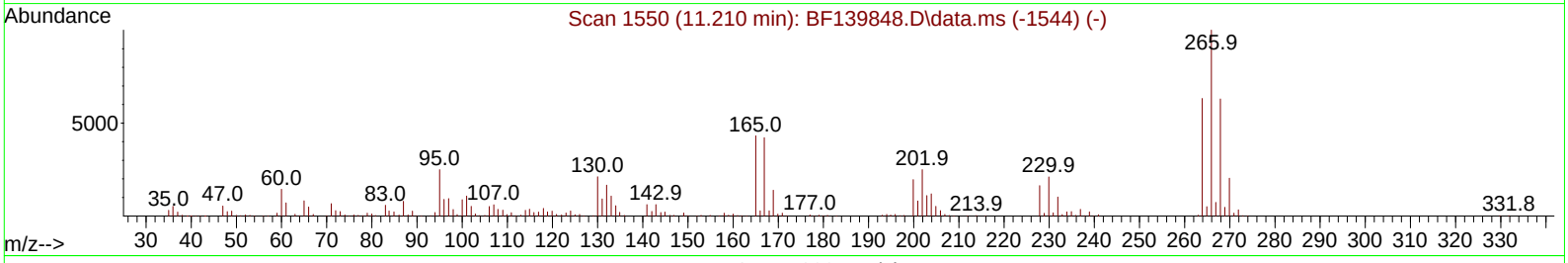
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139951.D
Acq On : 23 Oct 2024 08:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 23 16:03:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139951.D\data.ms

(70) Pentachlorophenol (C)

11.216min (+ 0.006) 71911.08 ng

response 533470

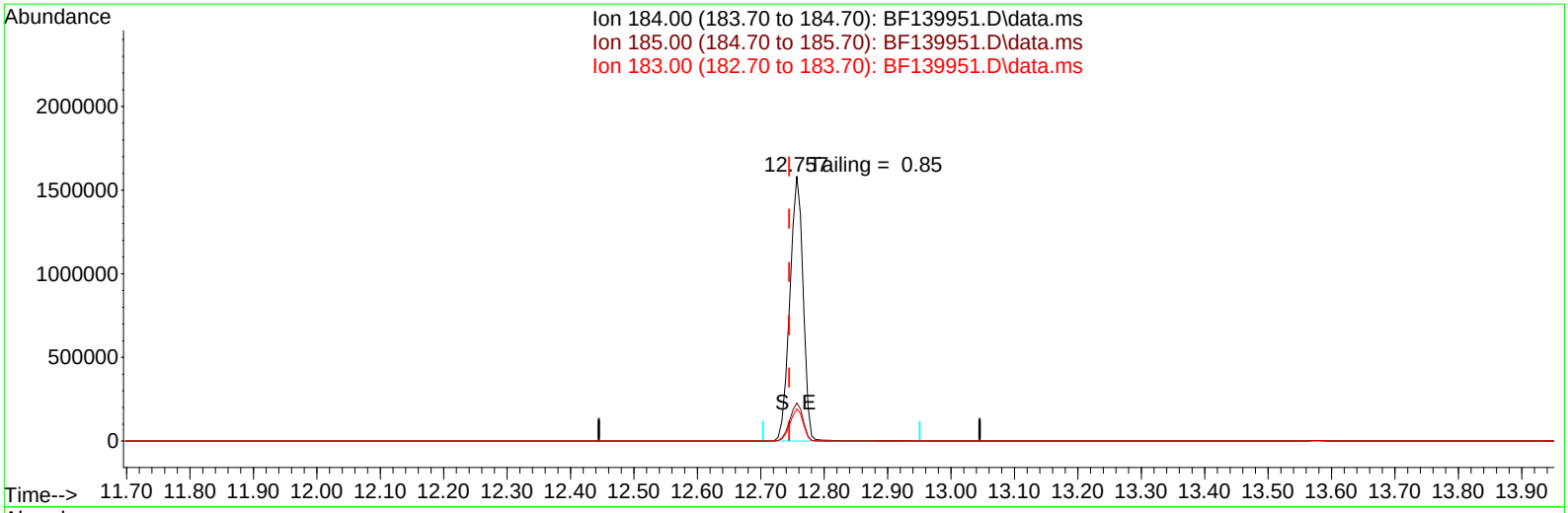
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.99
264.00	63.20	63.77
0.00	0.00	0.00

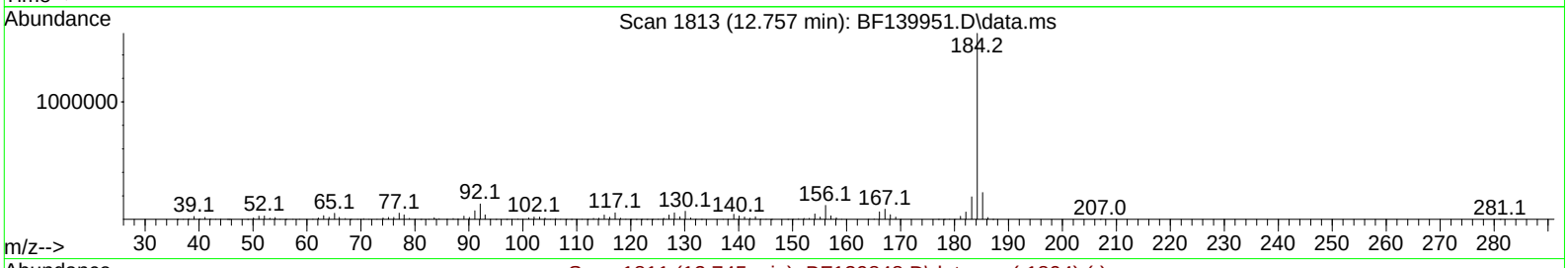
Sample Results: **BF139951.D**

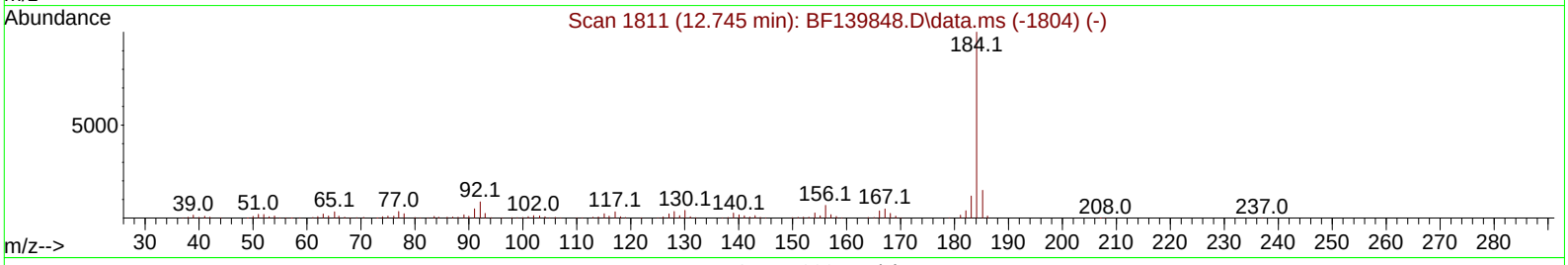
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139951.D
Acq On : 23 Oct 2024 08:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 23 16:03:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139951.D\data.ms

(77) Benzidine

12.757min (+ 0.012) 73198.86 ng

response 2307374

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.40
183.00	11.80	12.12
0.00	0.00	0.00

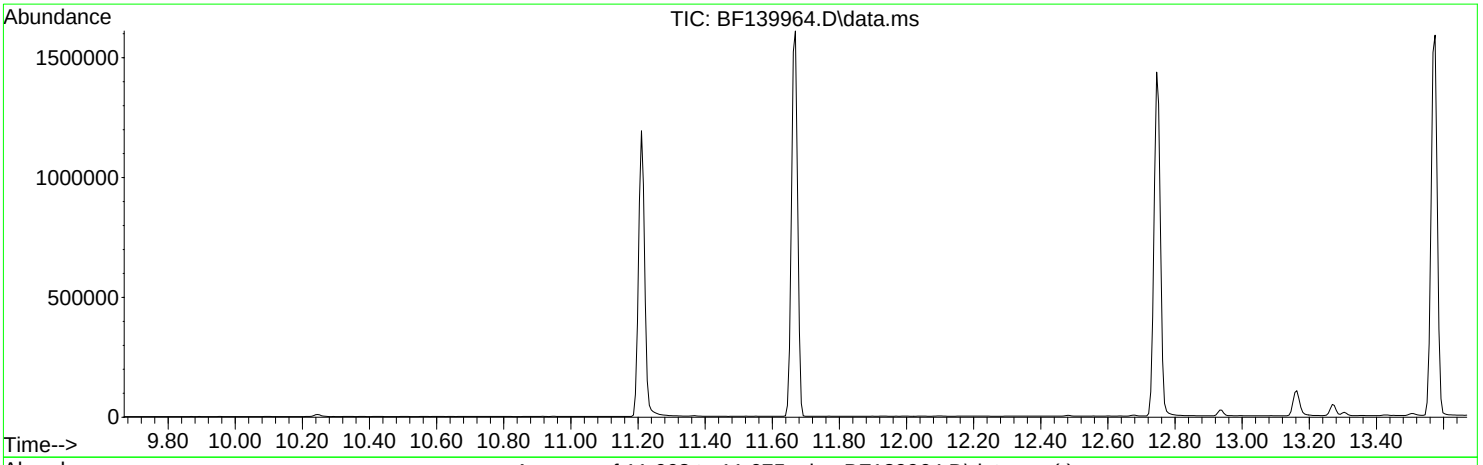
Sample Results: **BF139964.D**

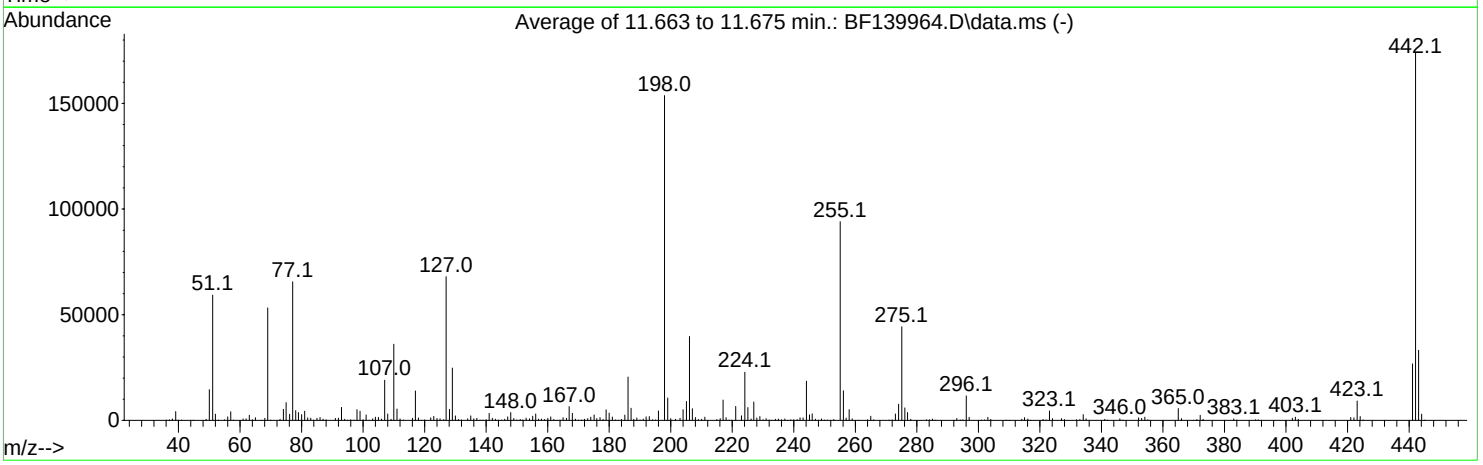
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139964.D
Acq On : 23 Oct 2024 15:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024





AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.6	59323	PASS
68	69	0.00	2	1.8	983	PASS
69	198	0.00	100	34.6	53243	PASS
70	69	0.00	2	0.4	190	PASS
127	198	10	80	44.2	67984	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	153731	PASS
199	198	5	9	6.9	10579	PASS
275	198	10	60	28.8	44264	PASS
365	198	1	100	3.6	5593	PASS
441	198	0.01	100	17.4	26768	PASS
442	442	50	100	100.0	174101	PASS
443	442	15	24	19.1	33184	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/23/2024	BNA_F	BF139964.D
Compound Name	**Response**	**Retention Time**
DDT	418094	13.575
DDD	17070	13.269
DDE	5569	12.933
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
22639	440733	5.14

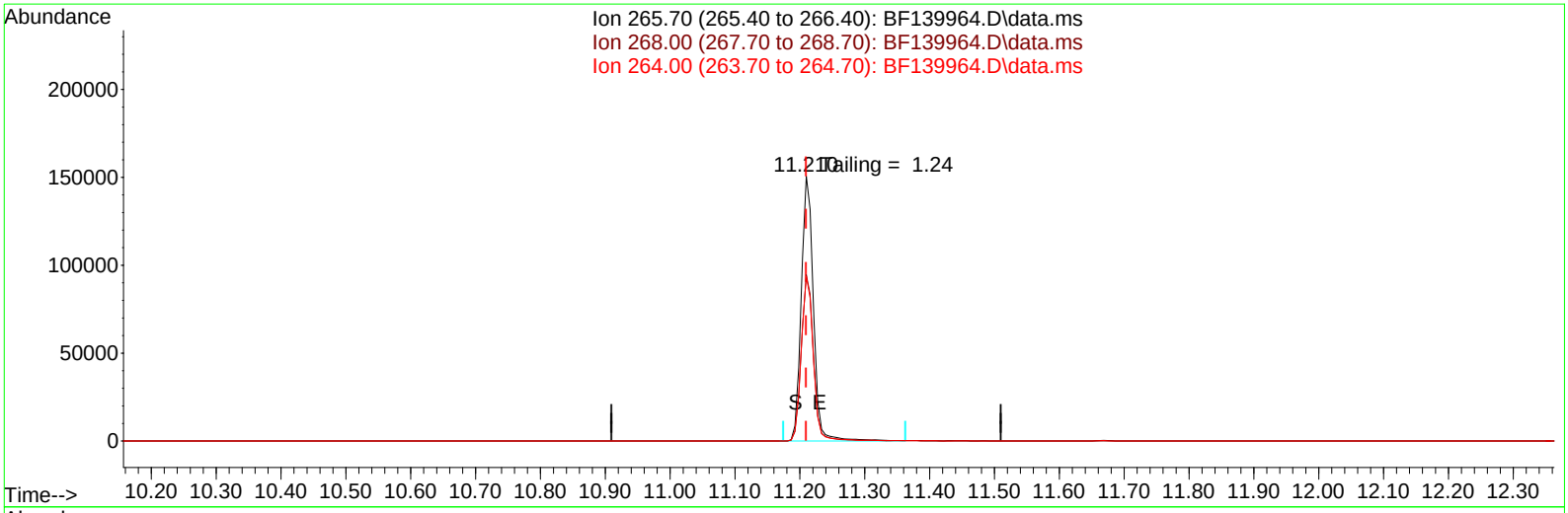
Instrument :
BNA_F
ClientSampleId :
DFTPP

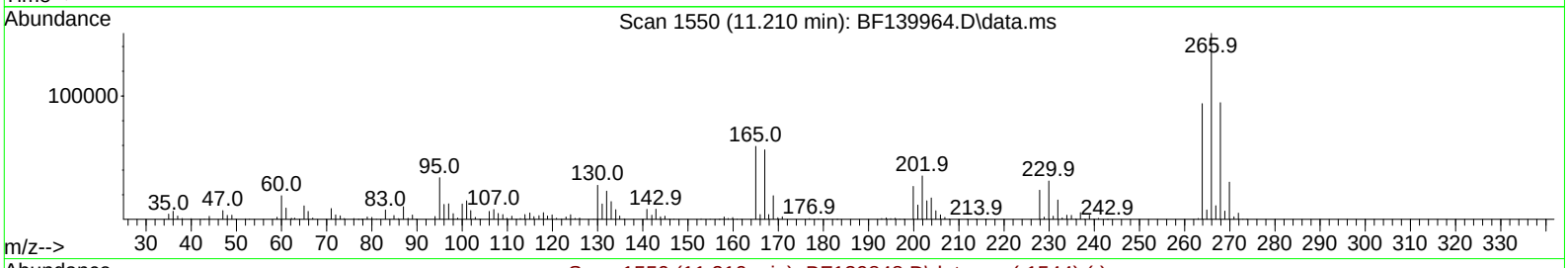
Sample Results: **BF139964.D**

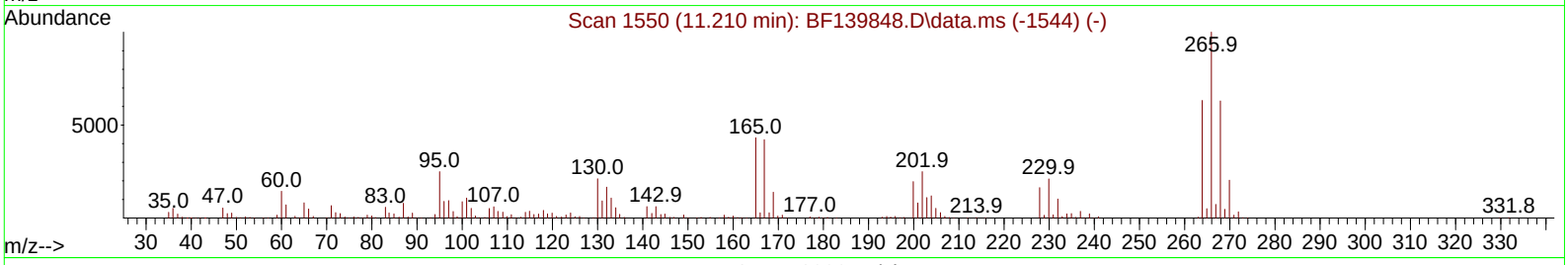
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139964.D
Acq On : 23 Oct 2024 15:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 23 15:33:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139964.D\data.ms

(70) Pentachlorophenol (C)

11.210min (+ 0.000) 37980.39 ng

response 197630

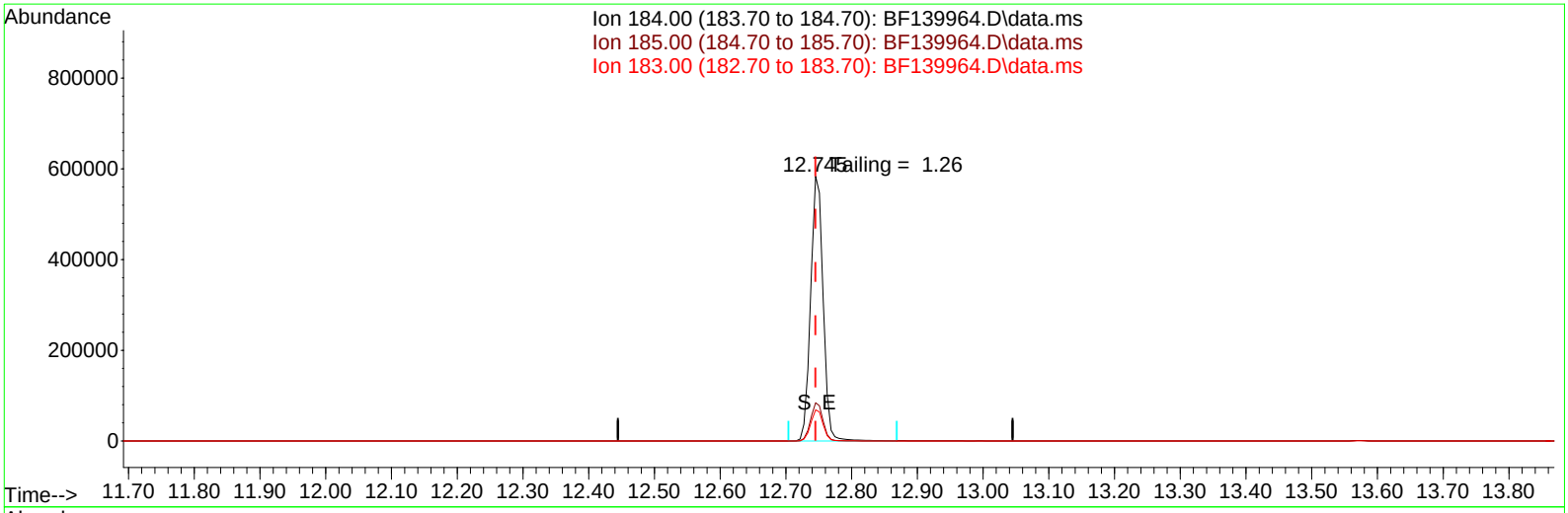
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	62.75
264.00	63.20	62.27
0.00	0.00	0.00

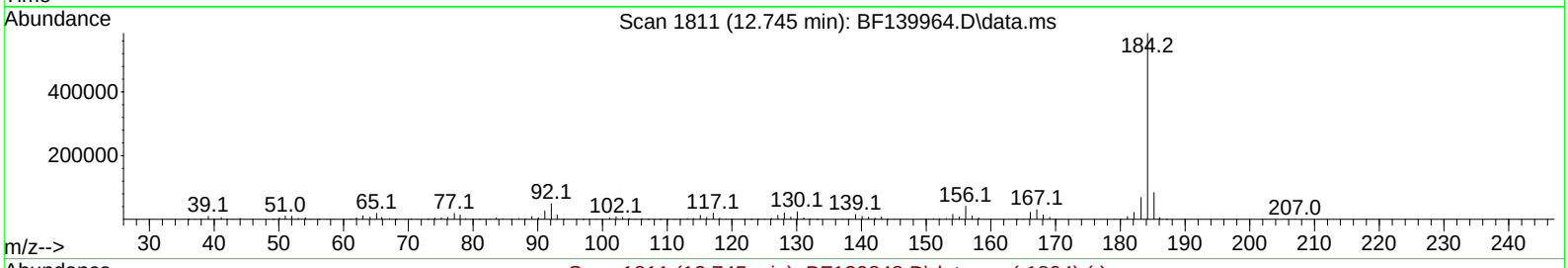
Sample Results: **BF139964.D**

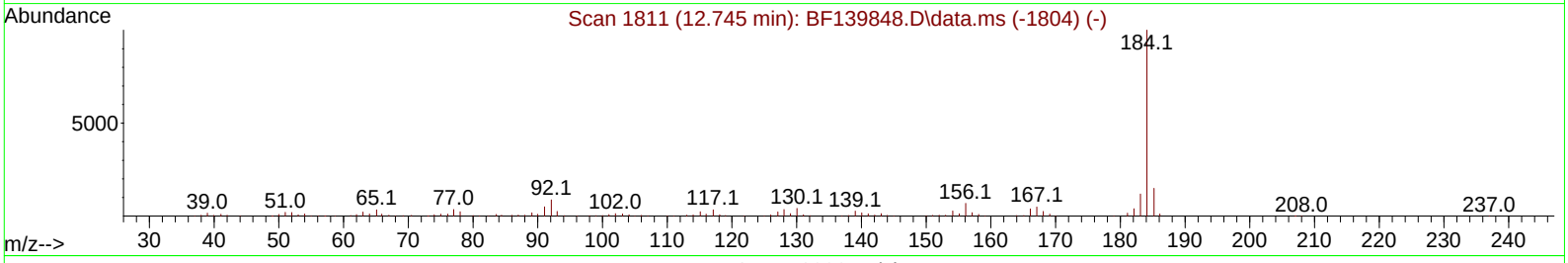
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139964.D
Acq On : 23 Oct 2024 15:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 23 15:33:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF139964.D\data.ms

(77) Benzidine

12.745min (+ 0.000) 0.00 ng

response 775484

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.45
183.00	11.80	11.75
0.00	0.00	0.00

Raw Data: **BF139893.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164123BL	SDG No.:	P4397
Lab Sample ID:	PB164123BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

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

Raw Data: **BF139893.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164123BL	SDG No.:	P4397
Lab Sample ID:	PB164123BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164123BL	SDG No.:	P4397
Lab Sample ID:	PB164123BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.6	U	74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	136		30 (15) - 130 (107)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		30 (18) - 130 (107)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.2		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		30 (10) - 130 (116)	97%	SPK: 150
1718-51-0	Terphenyl-d14	90.4		30 (10) - 130 (105)	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	168000	6.893			
1146-65-2	Naphthalene-d8	683000	8.169			
15067-26-2	Acenaphthene-d10	388000	9.928			
1517-22-2	Phenanthrene-d10	717000	11.41			
1719-03-5	Chrysene-d12	435000	14.051			
1520-96-3	Perylene-d12	328000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	190	J		2.25	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		5.13	ug/Kg
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	240	J		17.3	ug/Kg

Raw Data: **BF139893.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164123BL			SDG No.:	P4397
Lab Sample ID:	PB164123BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139893.D	1	10/14/24 10:40	10/21/24 10:25	PB164123

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

Sample Results: **BF139893.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Time: Oct 21 11:07:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

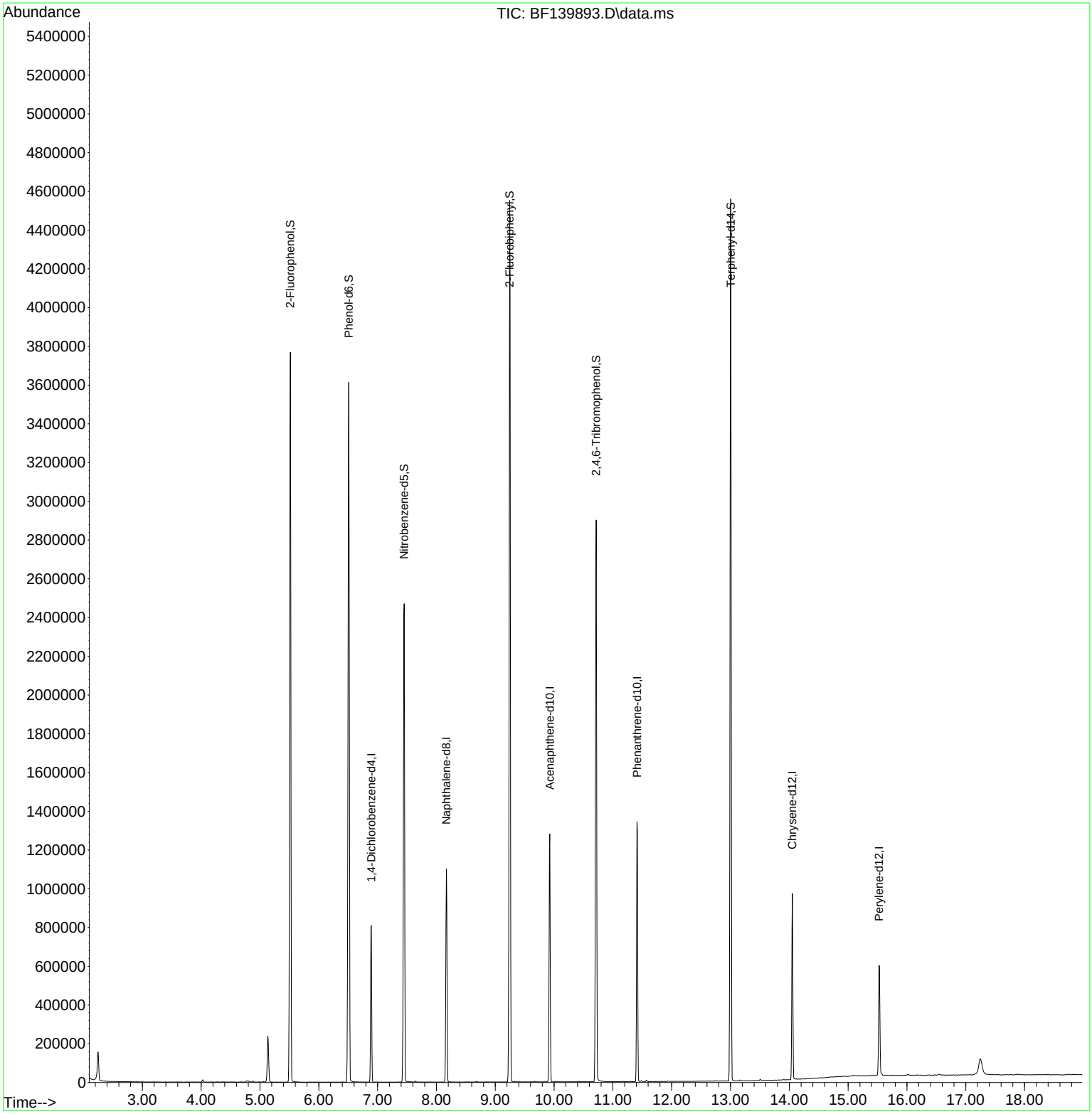
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	167950	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	682521	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	387913	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	717487	20.000	ng	0.00
76) Chrysene-d12	14.051	240	434664	20.000	ng	0.00
86) Perylene-d12	15.527	264	327943	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1477979	137.765	ng	0.02
7) Phenol-d6	6.510	99	1885243	135.679	ng	0.00
23) Nitrobenzene-d5	7.451	82	1193449	96.913	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	526130	145.003	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	2140061	91.177	ng	0.00
79) Terphenyl-d14	13.004	244	2411993	90.421	ng	0.00
Target Compounds						Qvalue

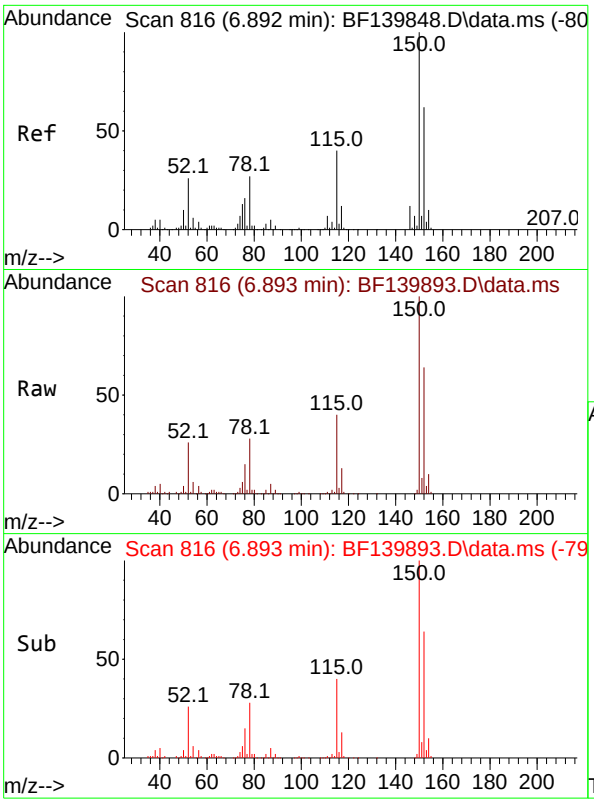
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Time: Oct 21 11:07:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



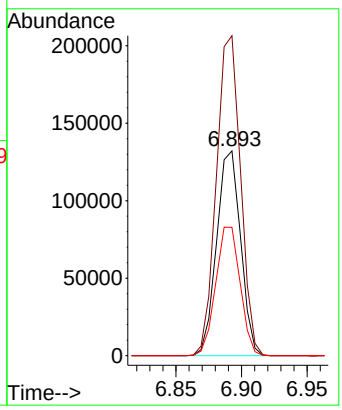


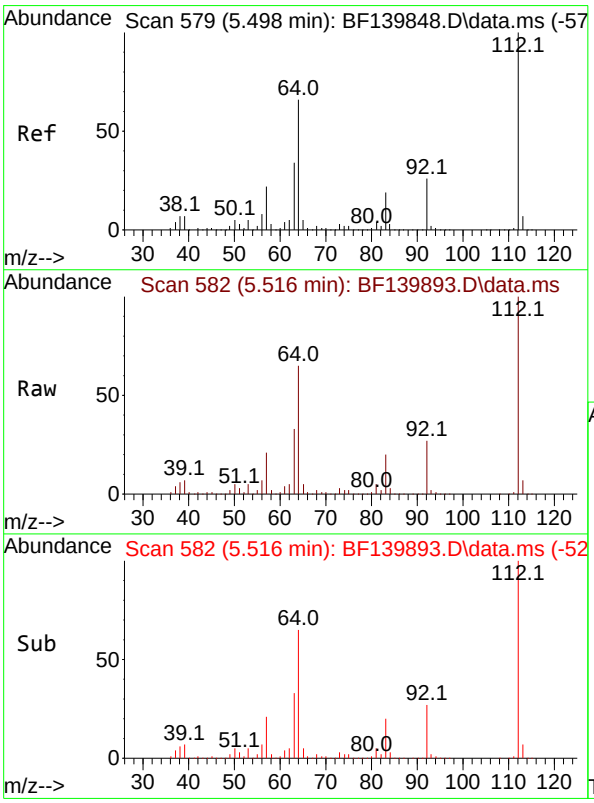
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:152 Resp: 167950

Ion	Ratio	Lower	Upper
152	100		
150	156.3	130.2	195.2
115	62.7	51.4	77.2

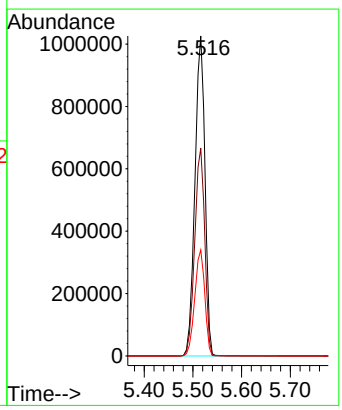


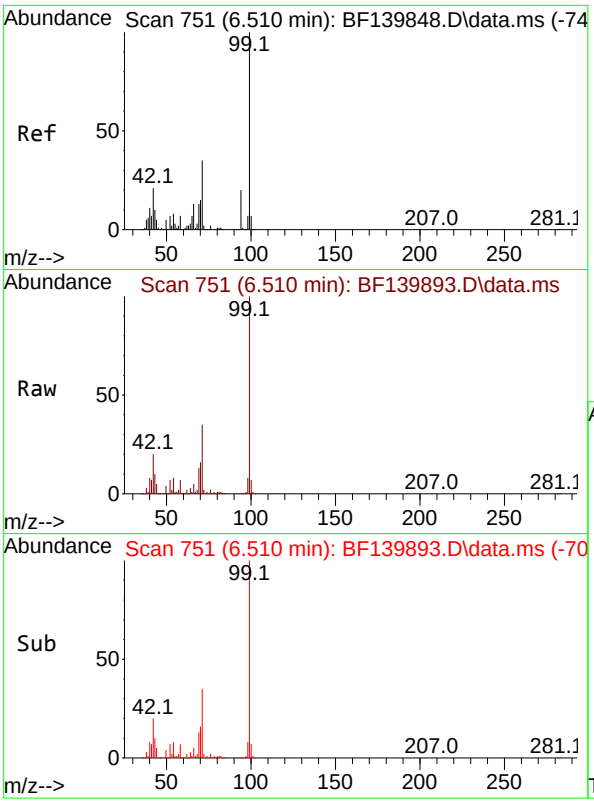


#5
2-Fluorophenol
Concen: 137.765 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:112 Resp: 1477979

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.0	79.6
63	33.2	27.0	40.4



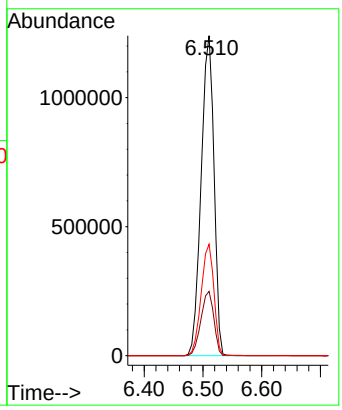


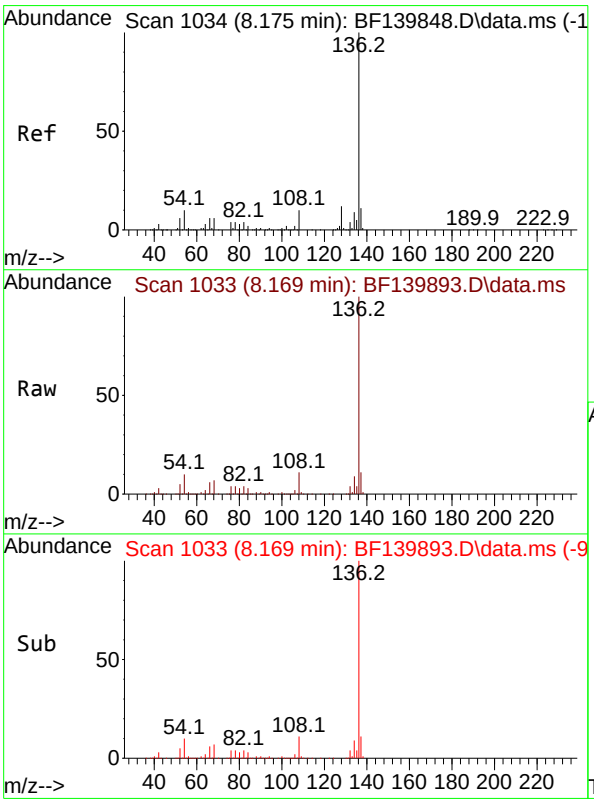
#7
Phenol-d6
Concen: 135.679 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion: 99 Resp: 1885243

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.7	25.1
71	34.9	27.7	41.5

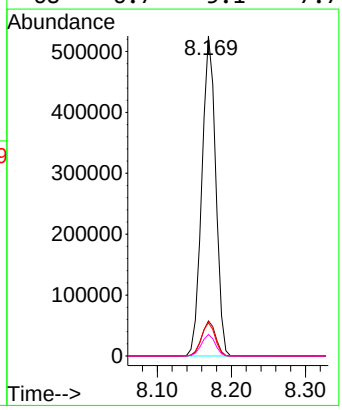


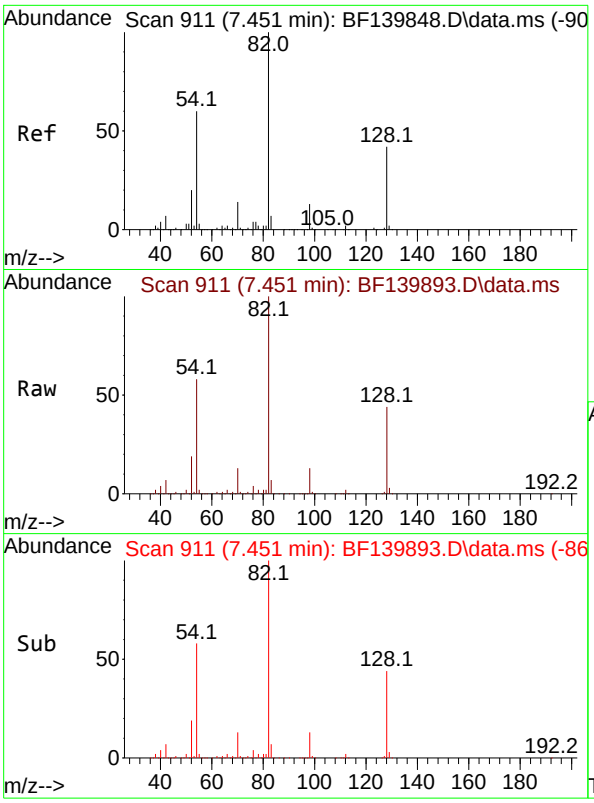


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:136 Resp: 682521

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	10.4	8.4	12.6
68	6.7	5.1	7.7



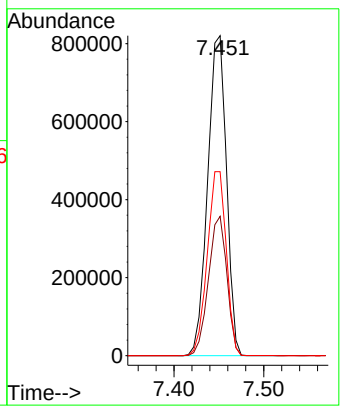


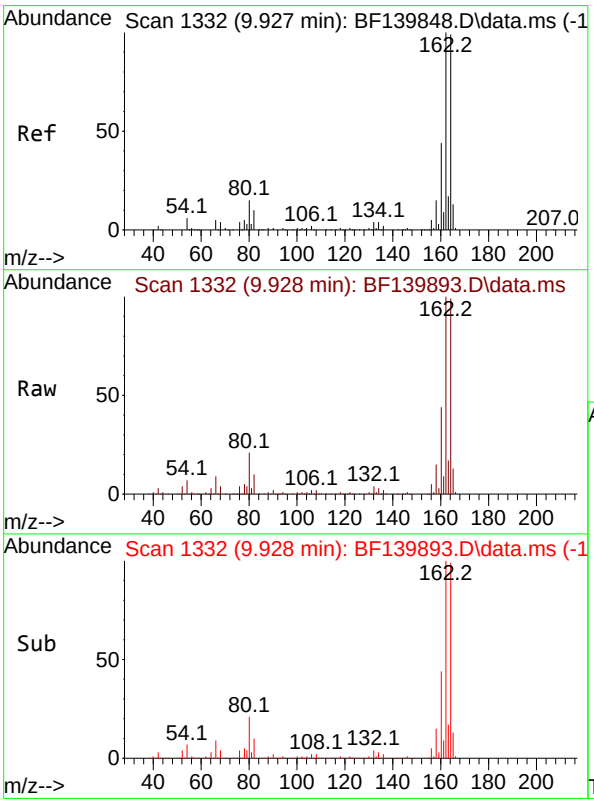
#23
Nitrobenzene-d5
Concen: 96.913 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion: 82 Resp: 1193449

Ion	Ratio	Lower	Upper
82	100		
128	43.6	33.4	50.0
54	57.5	47.8	71.8

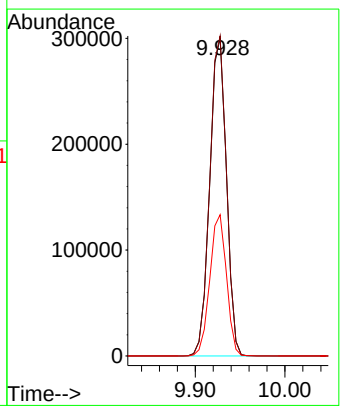


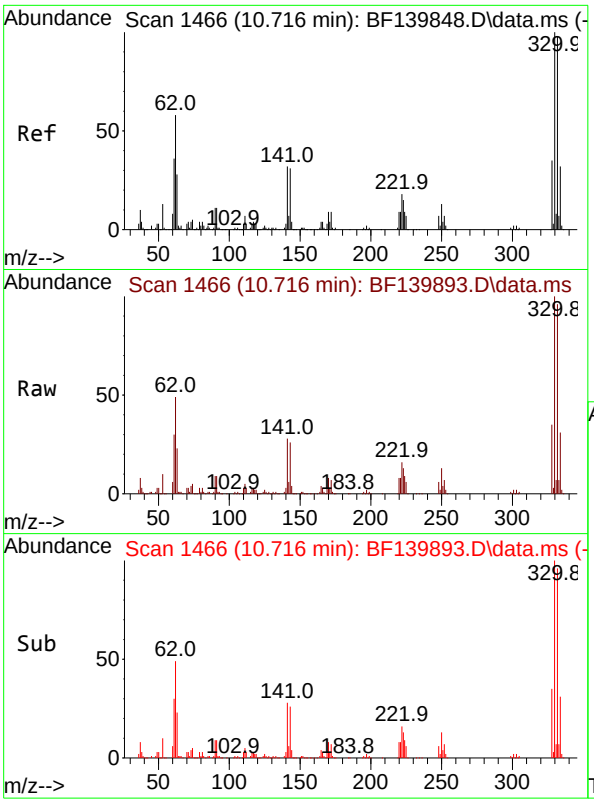


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:164 Resp: 387913

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.0	121.4
160	44.4	35.4	53.0



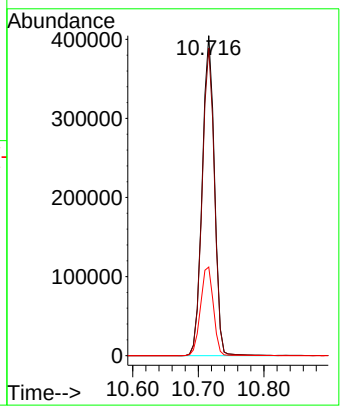


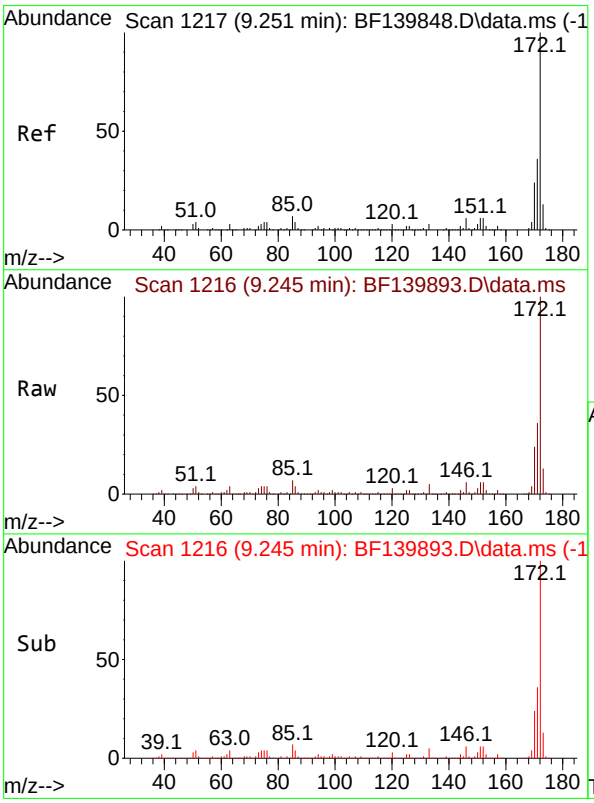
#42
2,4,6-Tribromophenol
Concen: 145.003 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:330 Resp: 526130

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	29.3	26.6	39.8

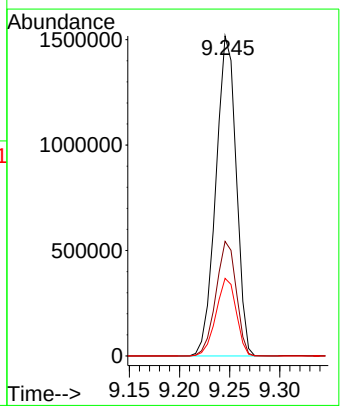


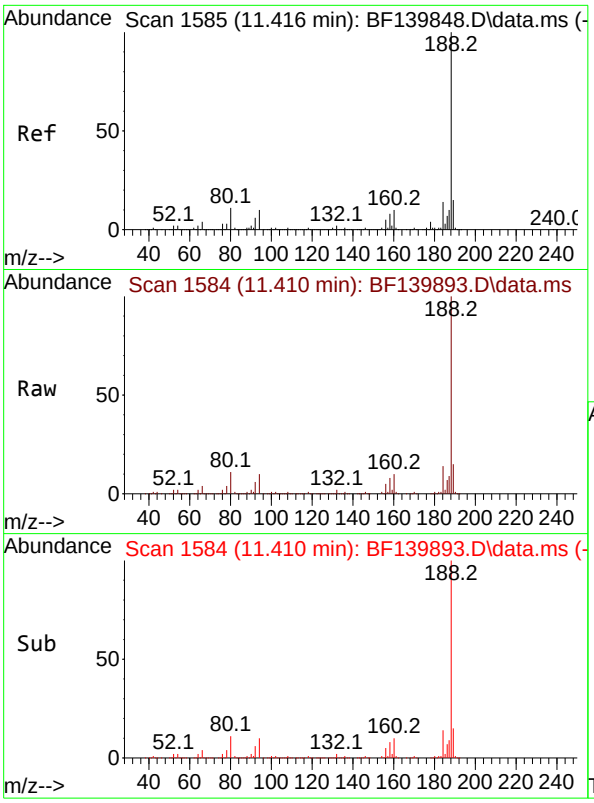


#45
2-Fluorobiphenyl
Concen: 91.177 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:172 Resp: 2140061

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.2	19.1	28.7



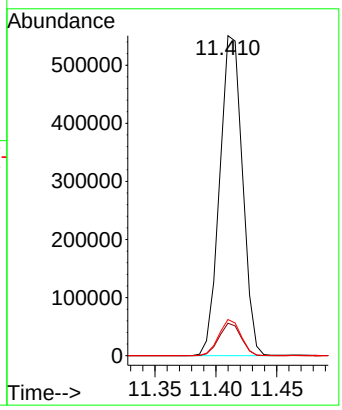


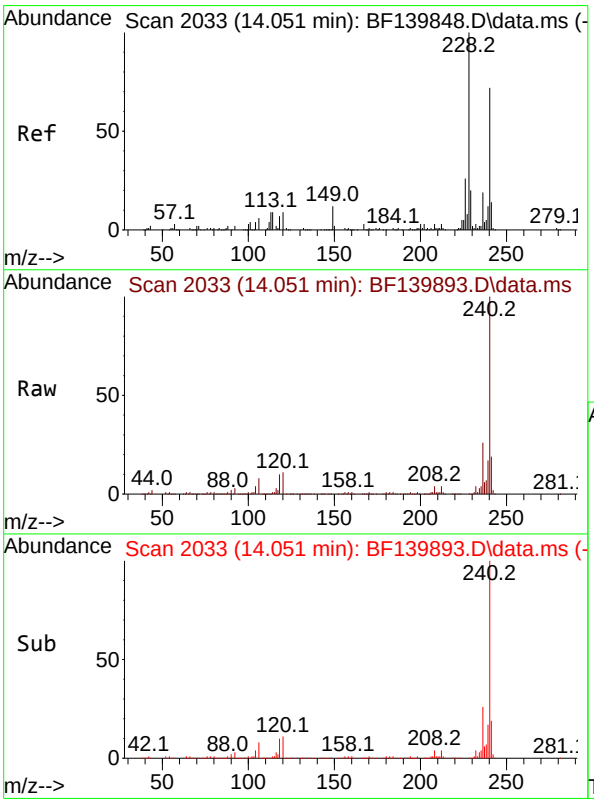
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:188 Resp: 717487

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	11.3	9.0	13.4

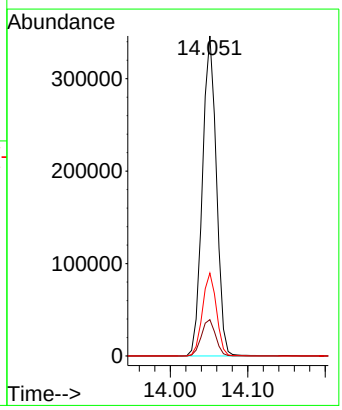


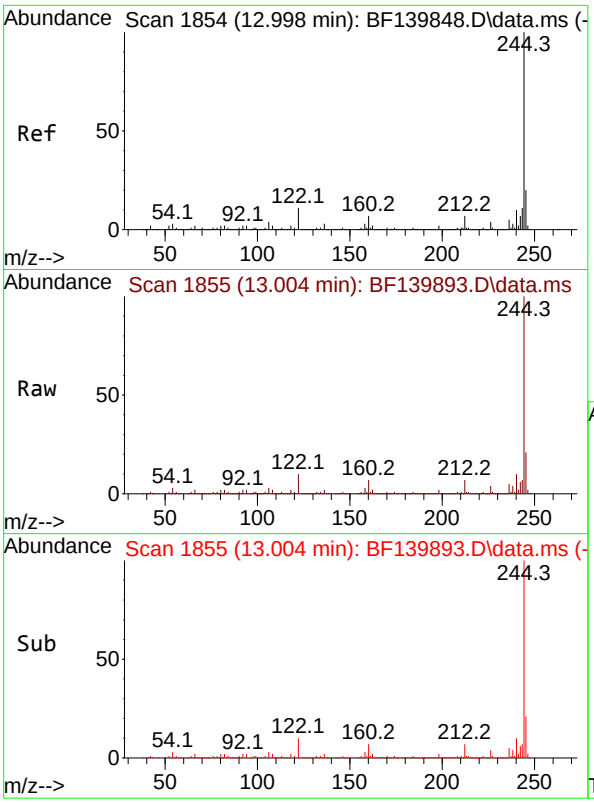


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:240 Resp: 434664

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.4	14.2
236	25.9	20.9	31.3



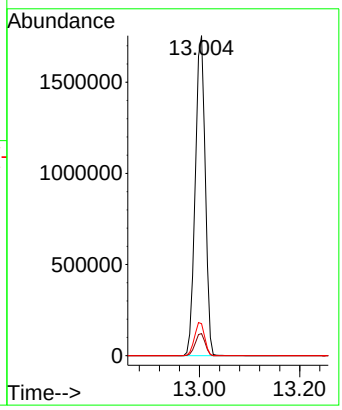


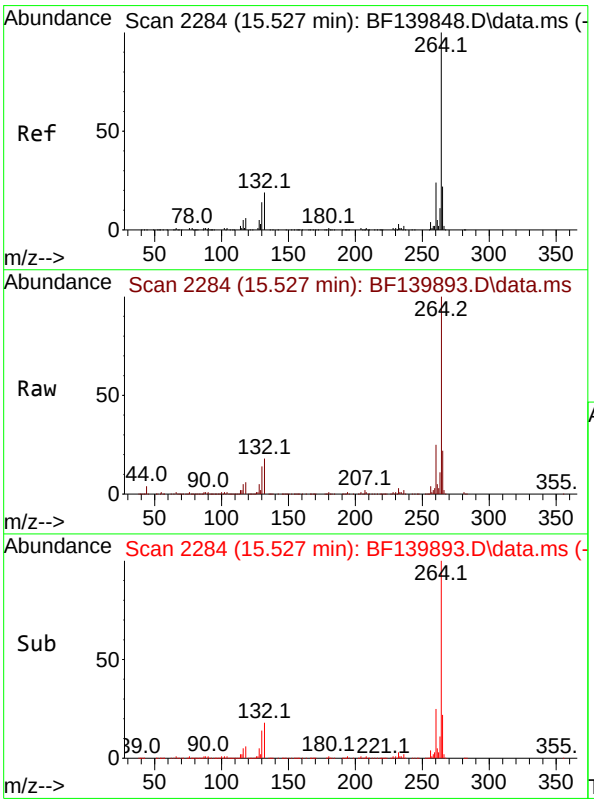
#79
Terphenyl-d14
Concen: 90.421 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Tgt Ion:244 Resp: 2411993

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.0	8.6	13.0

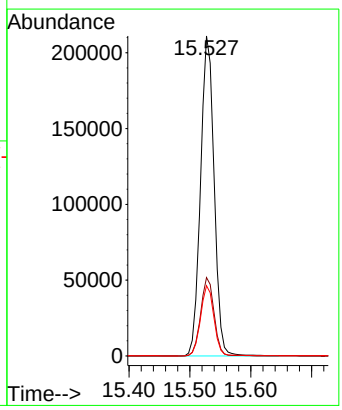




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139893.D
Acq: 21 Oct 2024 10:25

Tgt Ion:264 Resp: 327943

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	22.0	17.4	26.0



Sample Results: **BF139893.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139893.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	15	26	44	rVB	151286	297446	4.69%	0.743%
2	5.134	509	517	529	rVB	237957	395531	6.23%	0.989%
3	5.516	575	582	587	rBV	3767406	5418586	85.41%	13.543%
4	6.510	743	751	756	rBV	3612725	5478088	86.35%	13.691%
5	6.893	810	816	821	rVB	803939	1041515	16.42%	2.603%
6	7.451	904	911	916	rBV	2469764	3601688	56.77%	9.002%
7	8.169	1027	1033	1038	rBV	1100451	1425869	22.48%	3.564%
8	9.245	1209	1216	1221	rBV	4551147	6343970	100.00%	15.855%
9	9.928	1325	1332	1337	rBV	1280335	1661014	26.18%	4.151%
10	10.716	1459	1466	1471	rBV	2900294	3906673	61.58%	9.764%
11	11.410	1579	1584	1590	rBV	1341130	1735066	27.35%	4.336%
12	13.004	1848	1855	1860	rBV	4553710	6304757	99.38%	15.757%
13	14.051	2027	2033	2038	rBV	961627	1208233	19.05%	3.020%
14	15.527	2278	2284	2295	rVB	567270	874191	13.78%	2.185%
15	17.251	2568	2577	2597	rVB2	79164	318735	5.02%	0.797%

Sum of corrected areas: 40011362

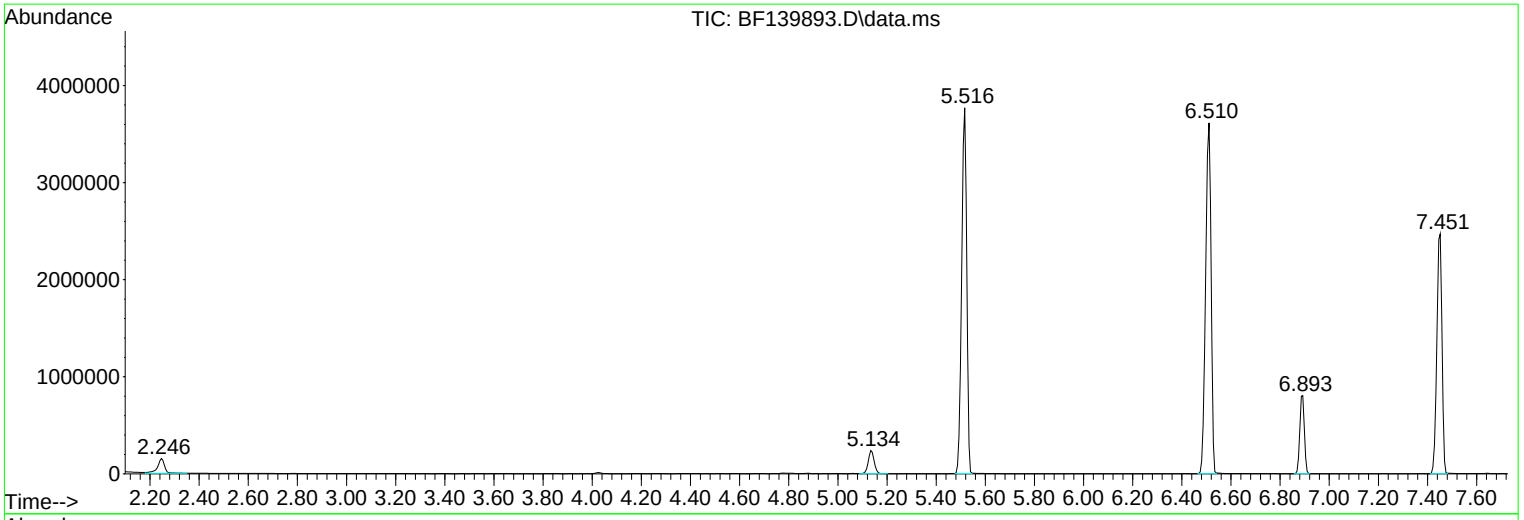
Sample Results: **BF139893.D**

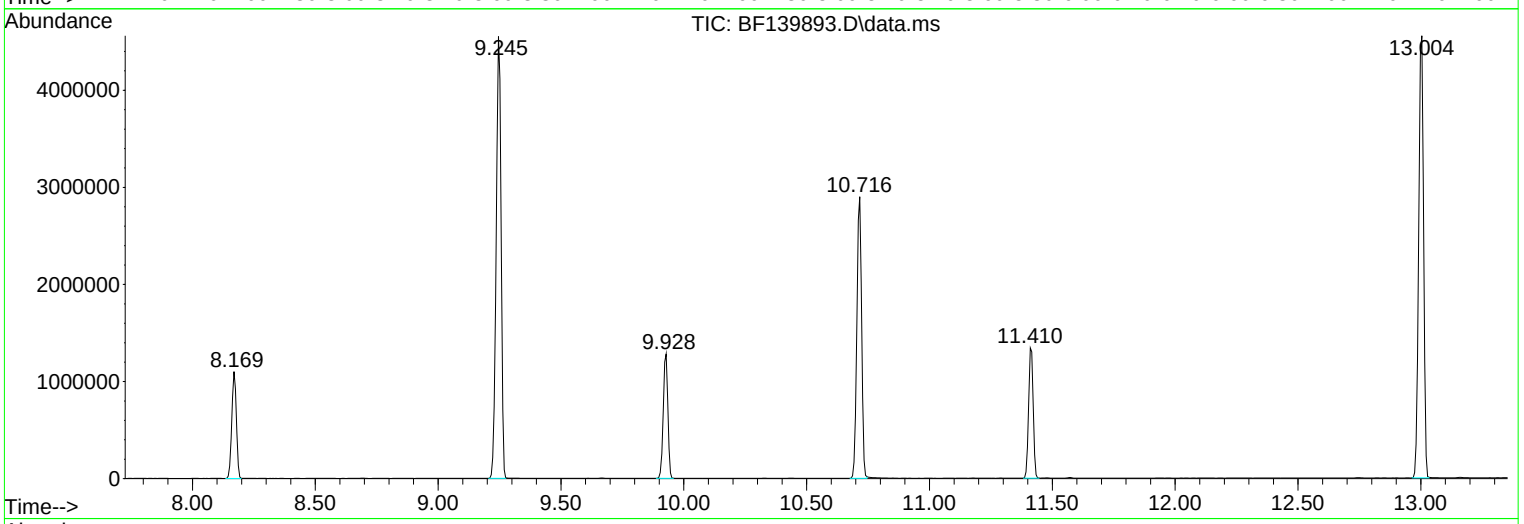
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

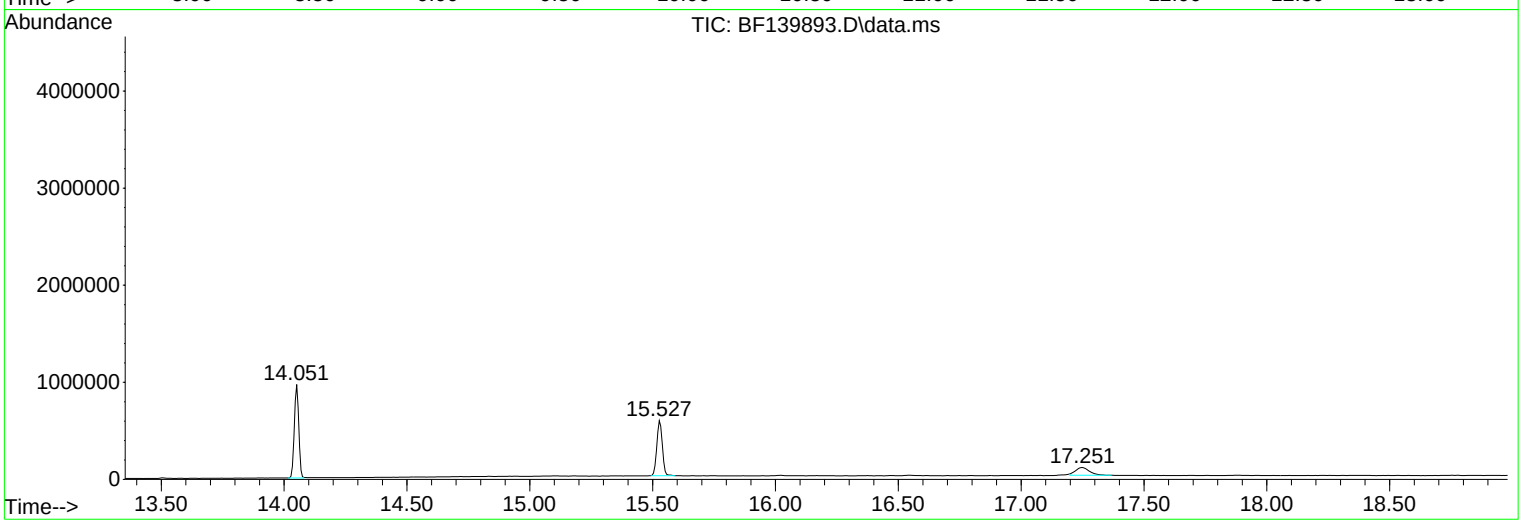
Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

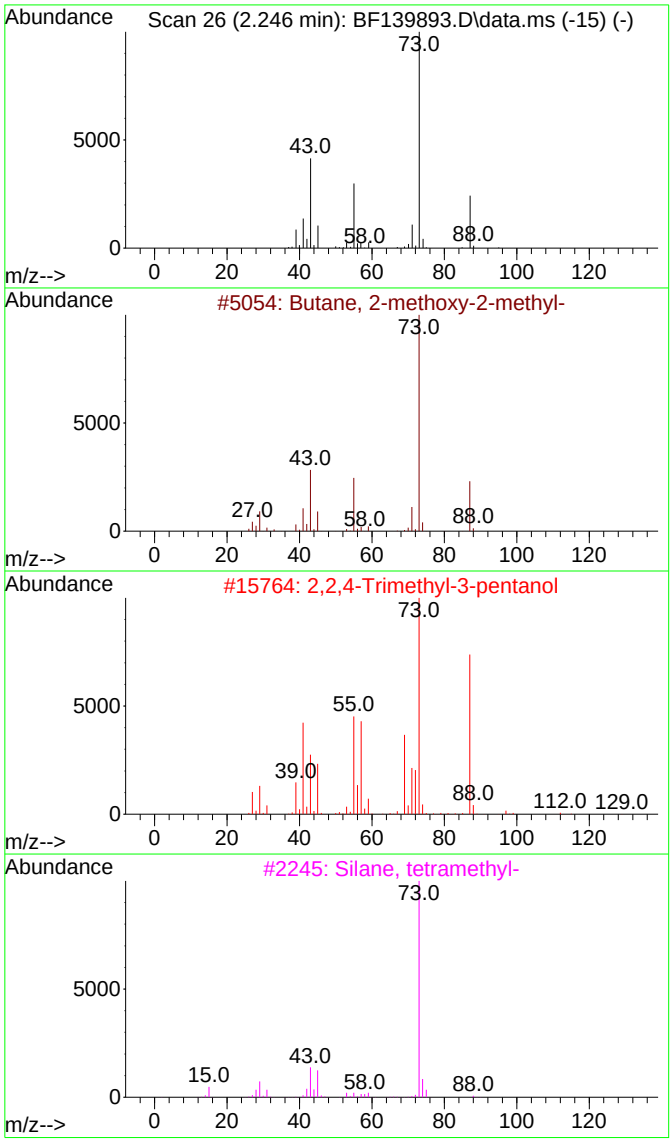
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

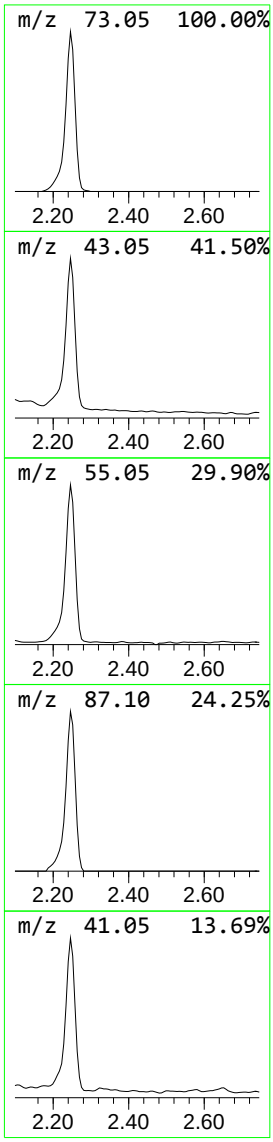
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.246	5.71 ng	297446	1,4-Dichlorobenzene-d4	6.893

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	35
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

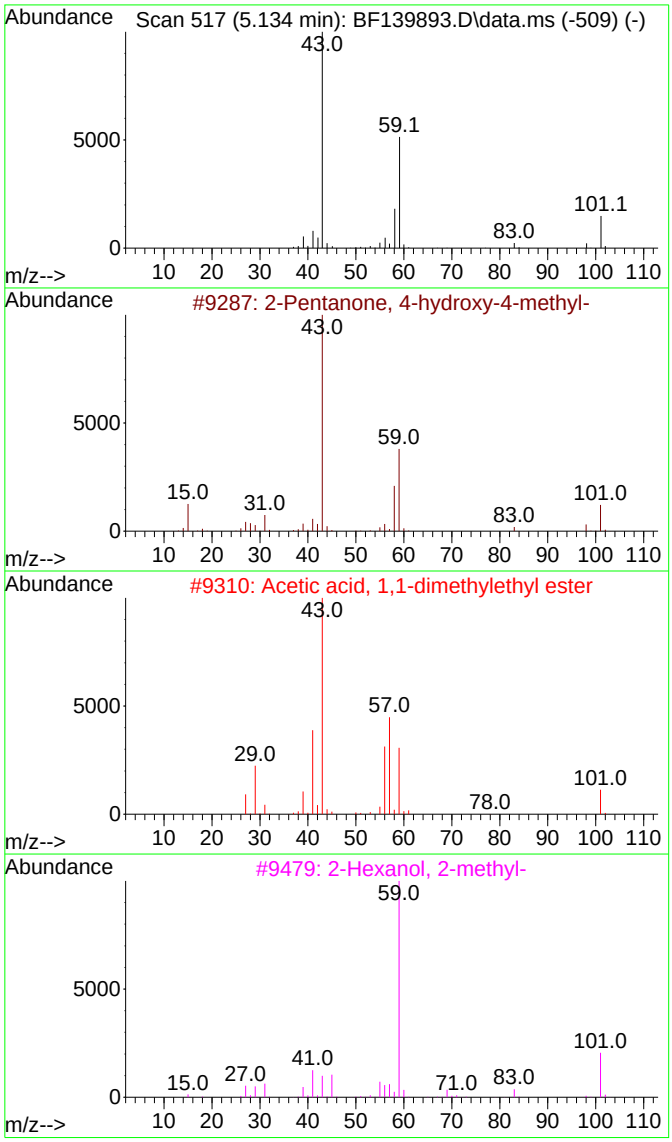
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

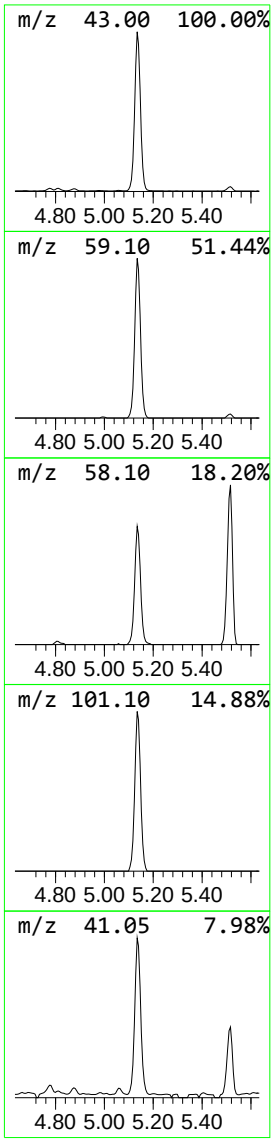
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	7.60 ng	395531	1,4-Dichlorobenzene-d4	6.893

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	28
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	25
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

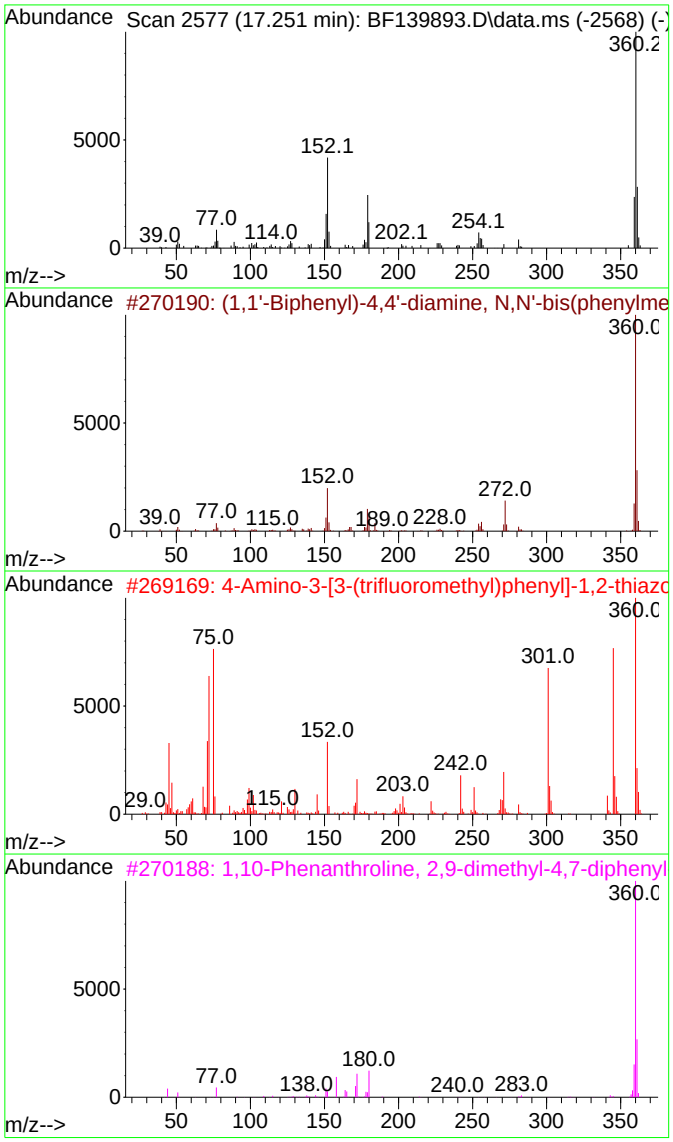
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

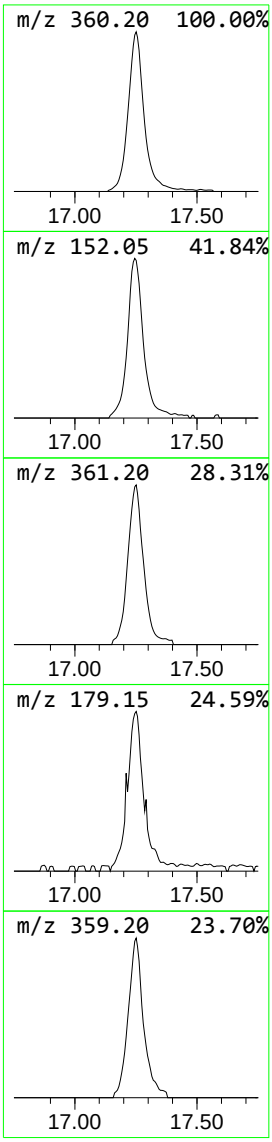
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (1,1'-Biphenyl)-4,4'-diamin... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.251	7.29 ng	318735	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1,1'-Biphenyl)-4,4'-diamine, N,...	360	C26H20N2	006311-48-4	93
2	4-Amino-3-[3-(trifluoromethyl)ph...	360	C14H15F3N2O2SSi	1010500-98-0	58
3	1,10-Phenanthroline, 2,9-dimethy...	360	C26H20N2	004733-39-5	49
4	Benzaldehyde, 4-hydroxy-3,5-dime...	360	C18H20N2O6	014414-32-5	49
5	Androst-4-ene-3,17-dione, 12-hyd...	360	C21H32N2O3	069688-31-9	47





Sample Results: **BF139893.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102124\
Data File : BF139893.D
Acq On : 21 Oct 2024 10:25
Operator : RC/JU
Sample : PB164123BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164123BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.246	5.7	ng	297446	1	6.893	1041520	20.0
2-Pentanone, 4-...	5.134	7.6	ng	395531	1	6.893	1041520	20.0
(1,1'-Biphenyl)...	17.251	7.3	ng	318735	6	15.527	874191	20.0

Raw Data: **BF139928.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

Raw Data: **BF139928.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

Raw Data: **BF139928.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	127		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	125		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.0		30 (49) - 130 (133)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.9		30 (52) - 130 (132)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		15 (44) - 110 (137)	98%	SPK: 150
1718-51-0	Terphenyl-d14	93.8		30 (48) - 130 (125)	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.887			
1146-65-2	Naphthalene-d8	633000	8.169			
15067-26-2	Acenaphthene-d10	358000	9.928			
1517-22-2	Phenanthrene-d10	643000	11.41			
1719-03-5	Chrysene-d12	376000	14.051			
1520-96-3	Perylene-d12	319000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4.00	J		2.24	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	7.20	A		5.13	ug/L

Raw Data: **BF139928.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BL	SDG No.:	P4397
Lab Sample ID:	PB164154BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139928.D	1	10/15/24 08:40	10/22/24 14:58	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Quant Time: Oct 22 15:24:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	163319	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	633200	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	357885	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	642786	20.000	ng	0.00
76) Chrysene-d12	14.051	240	375705	20.000	ng	0.00
86) Perylene-d12	15.527	264	319185	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1329585	127.447	ng	0.02
7) Phenol-d6	6.510	99	1686016	124.782	ng	0.00
23) Nitrobenzene-d5	7.451	82	1085362	95.001	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	490579	146.549	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1924724	88.883	ng	0.00
79) Terphenyl-d14	13.004	244	2163031	93.813	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Time: Oct 22 15:24:16 2024
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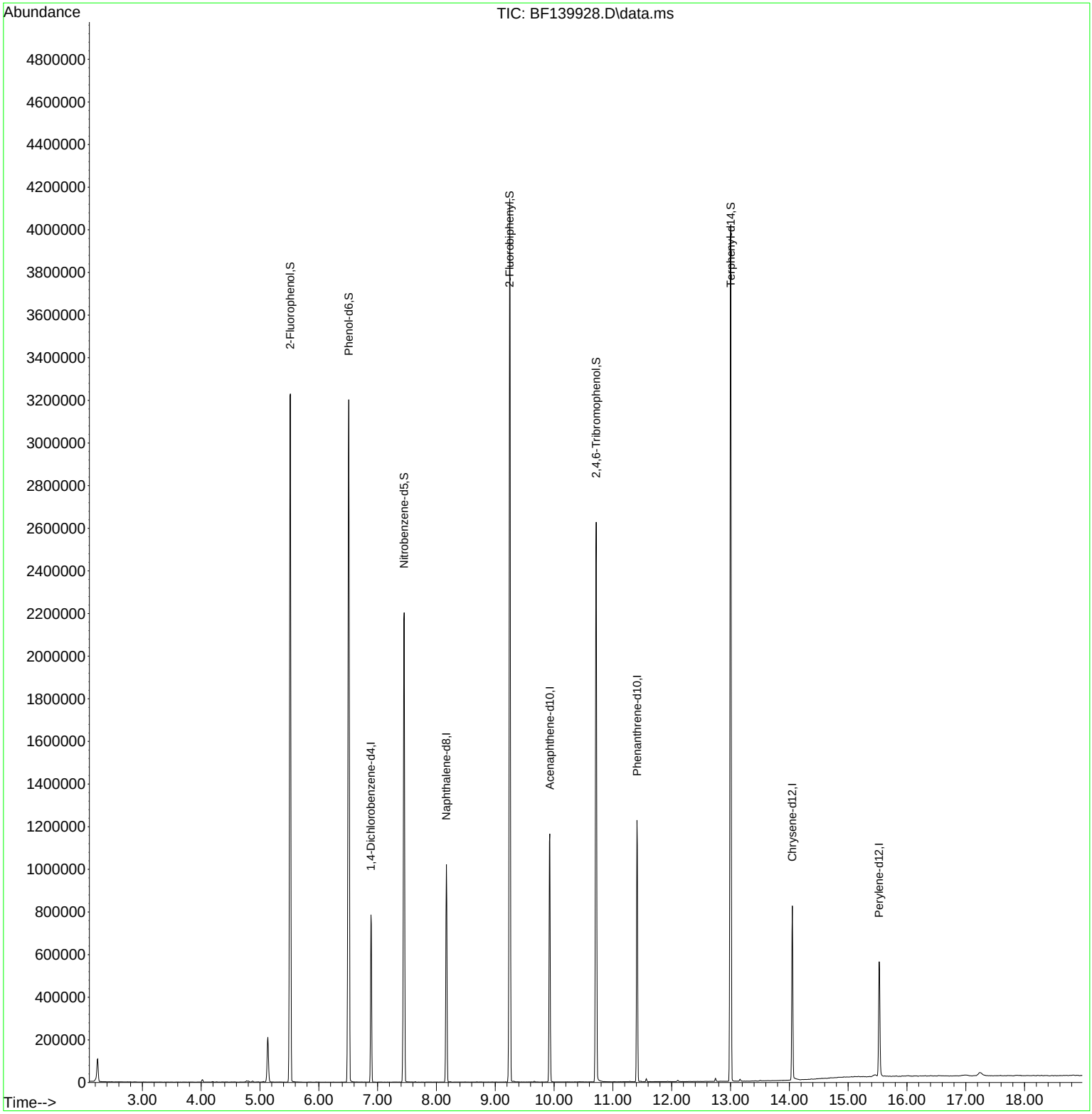
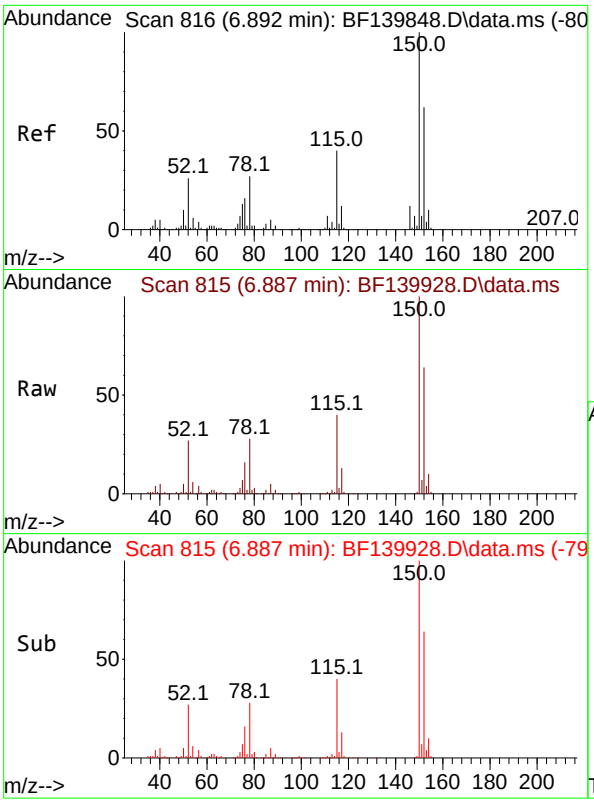
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



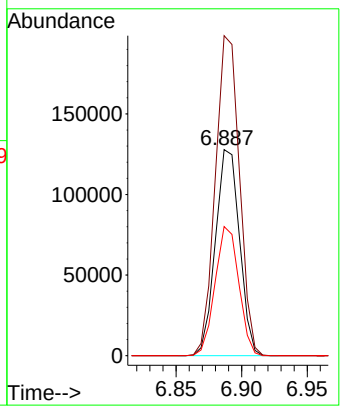


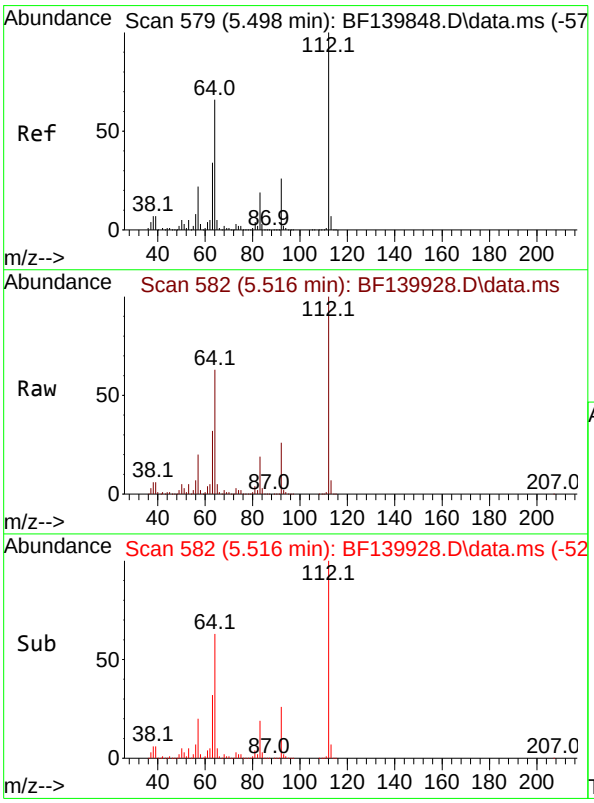
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:152 Resp: 163319

Ion	Ratio	Lower	Upper
152	100		
150	155.2	130.2	195.2
115	62.6	51.4	77.2

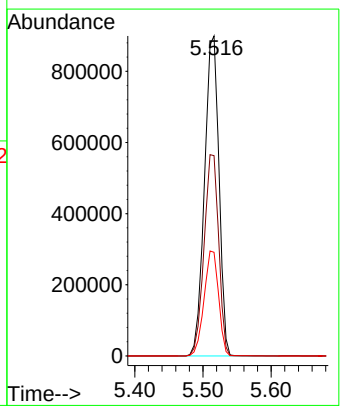


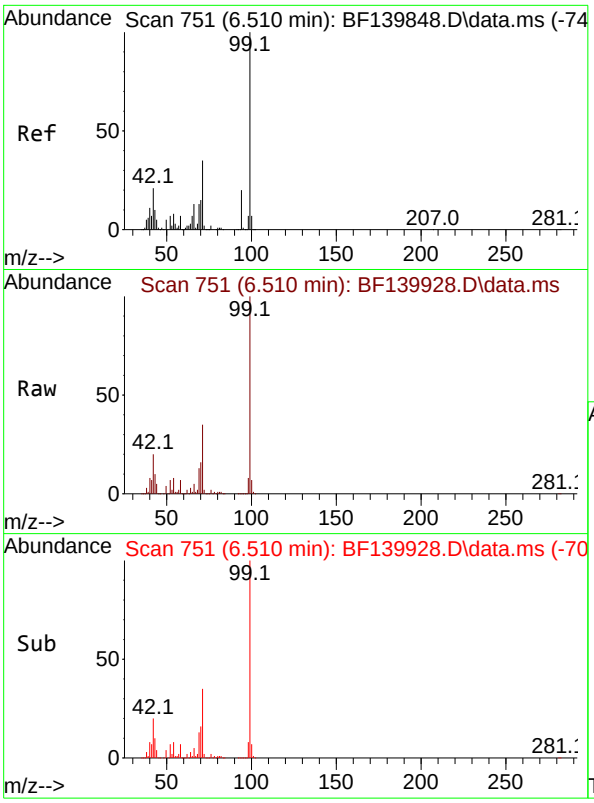


#5
2-Fluorophenol
Concen: 127.447 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:112 Resp: 1329585

Ion	Ratio	Lower	Upper
112	100		
64	62.6	53.0	79.6
63	32.4	27.0	40.4



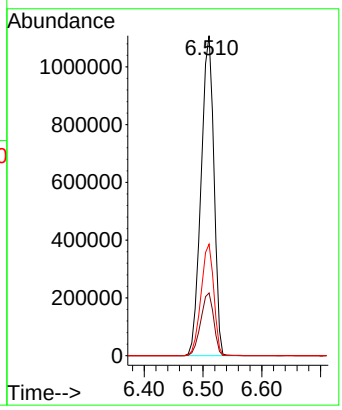


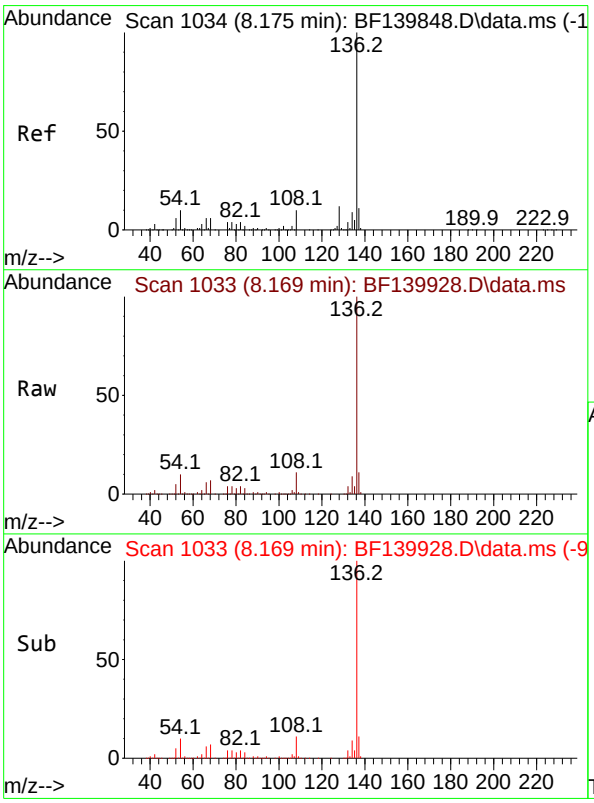
#7
Phenol-d6
Concen: 124.782 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion: 99 Resp: 1686016

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.7	25.1
71	34.9	27.7	41.5

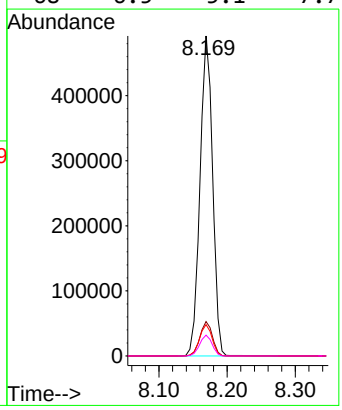


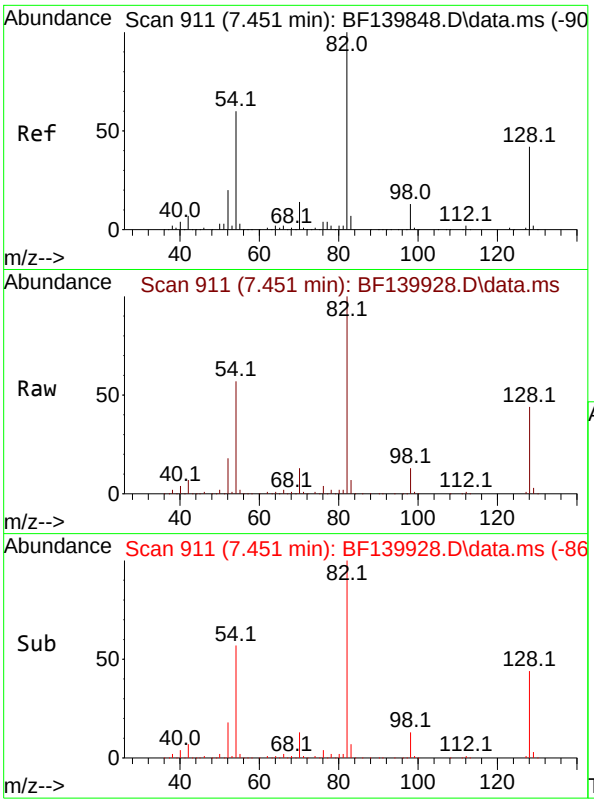


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:136 Resp: 633200

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.8	8.4	12.6
68	6.5	5.1	7.7



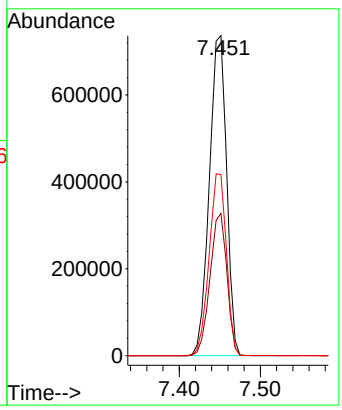


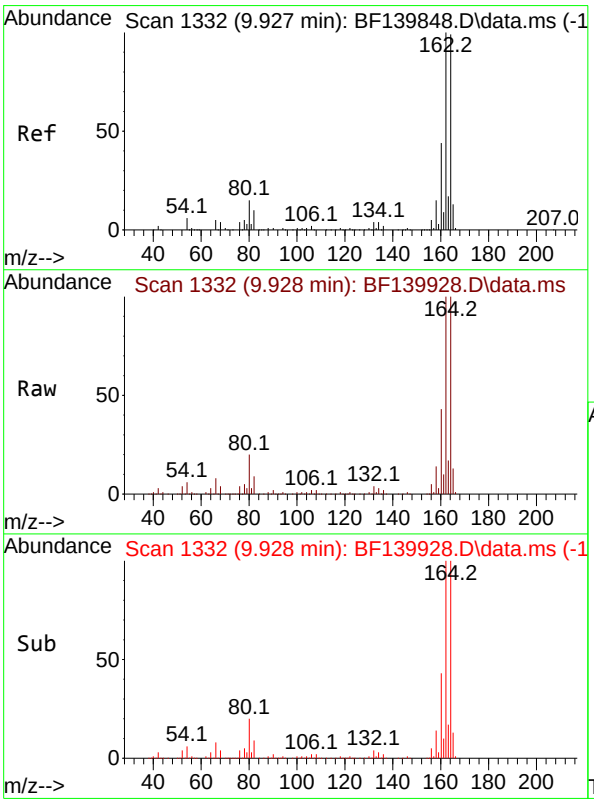
#23
Nitrobenzene-d5
Concen: 95.001 ng
RT: 7.451 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion: 82 Resp: 1085362

Ion	Ratio	Lower	Upper
82	100		
128	44.4	33.4	50.0
54	56.6	47.8	71.8

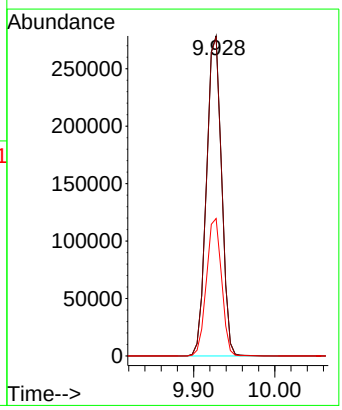


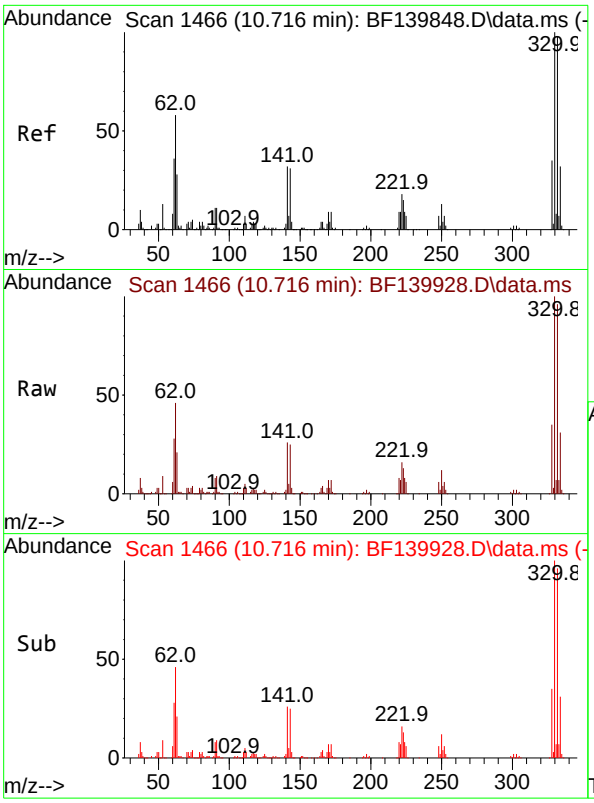


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:164 Resp: 357885

Ion	Ratio	Lower	Upper
164	100		
162	99.6	81.0	121.4
160	43.0	35.4	53.0



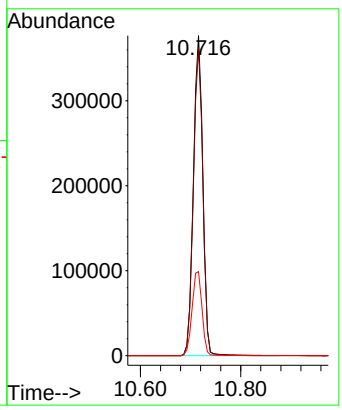


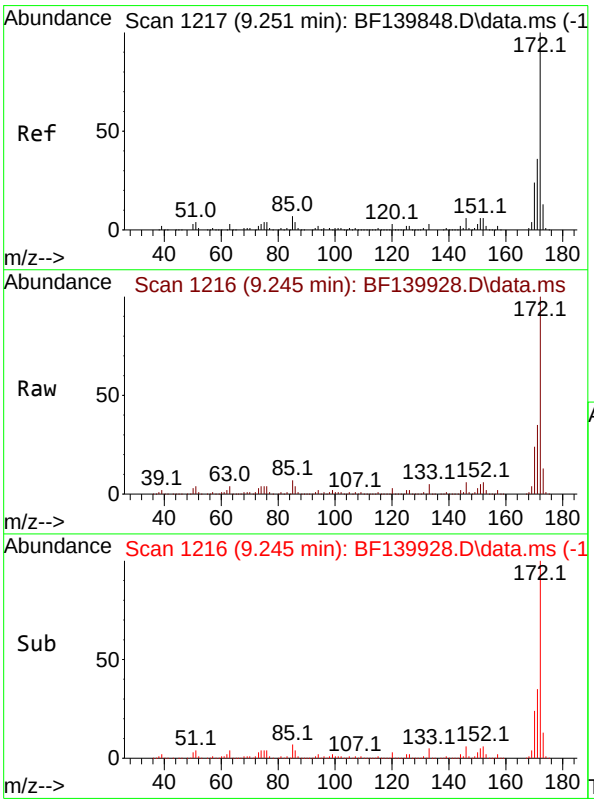
#42
2,4,6-Tribromophenol
Concen: 146.549 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:330 Resp: 490579

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	27.8	26.6	39.8

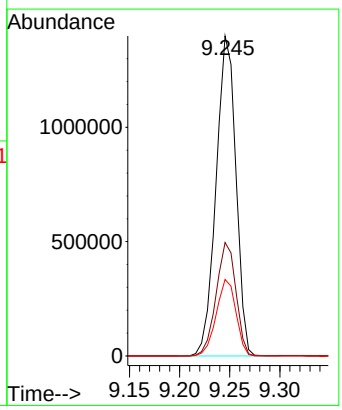


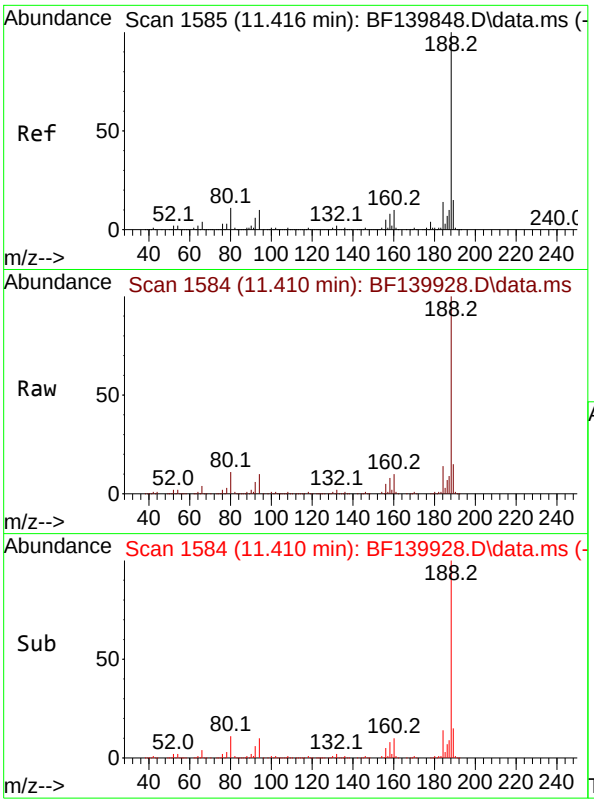


#45
2-Fluorobiphenyl
Concen: 88.883 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:172 Resp: 1924724

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.9	19.1	28.7



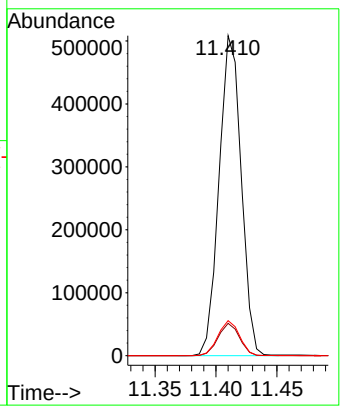


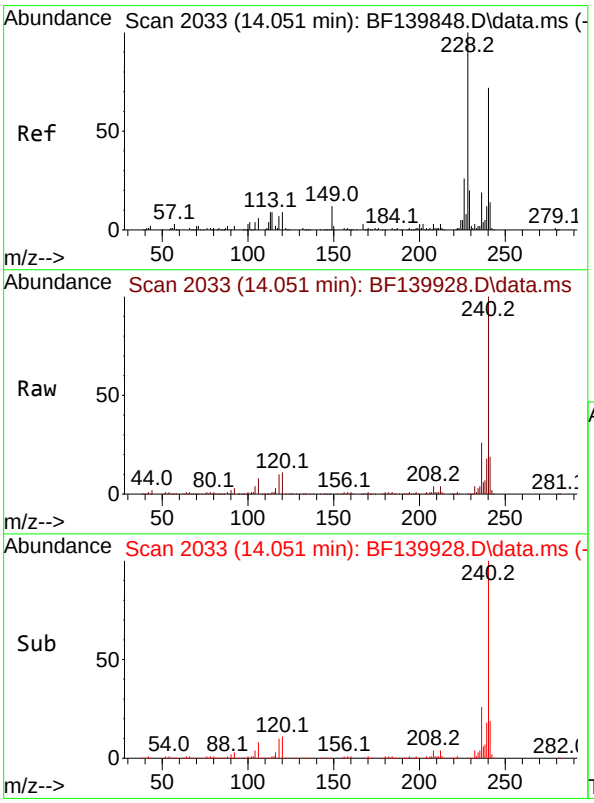
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:188 Resp: 642786

Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.9	11.9
80	11.0	9.0	13.4

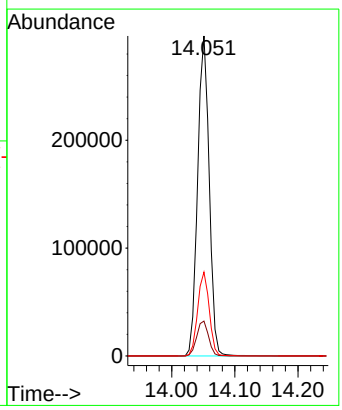


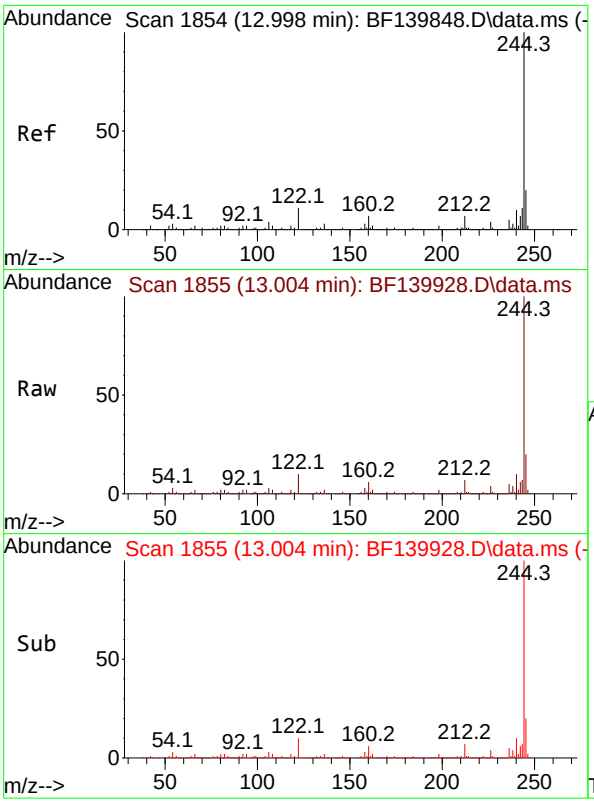


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:240 Resp: 375705

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.2
236	26.2	20.9	31.3



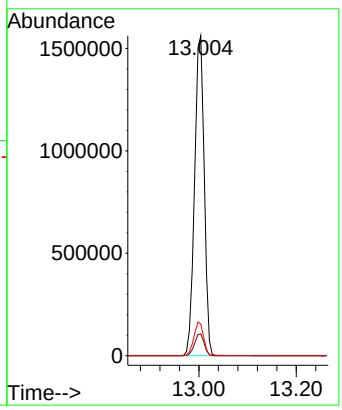


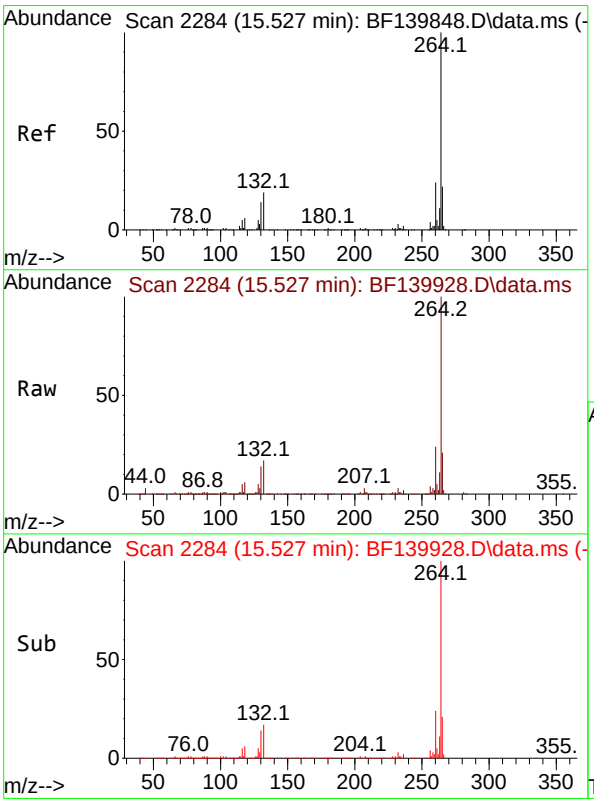
#79
Terphenyl-d14
Concen: 93.813 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Tgt Ion:244 Resp: 2163031

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.9	8.6	13.0

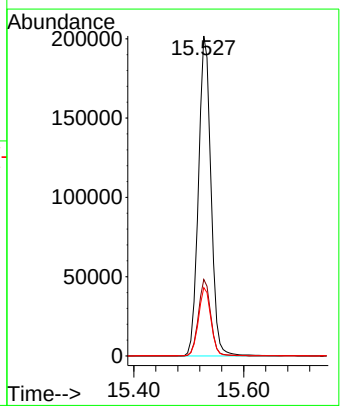




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139928.D
Acq: 22 Oct 2024 14:58

Tgt Ion:264 Resp: 319185

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.4	17.4	26.0



Sample Results: **BF139928.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139928.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	14	25	32	rVB	105942	196094	3.48%	0.552%
2	5.134	508	517	525	rBV	211232	355793	6.31%	1.002%
3	5.516	574	582	587	rBV	3228533	4811074	85.29%	13.548%
4	6.510	743	751	756	rBV	3201342	4863415	86.22%	13.695%
5	6.887	810	815	821	rVB	785314	988889	17.53%	2.785%
6	7.451	904	911	916	rBV	2202504	3245093	57.53%	9.138%
7	8.169	1027	1033	1038	rBV	1021389	1307293	23.18%	3.681%
8	9.245	1209	1216	1221	rBV	4143378	5640850	100.00%	15.884%
9	9.928	1326	1332	1337	rBV	1164032	1504574	26.67%	4.237%
10	10.716	1459	1466	1471	rBV	2625645	3523721	62.47%	9.922%
11	11.410	1579	1584	1590	rBV	1226772	1541456	27.33%	4.341%
12	13.004	1848	1855	1860	rBV	4019094	5615006	99.54%	15.811%
13	14.051	2027	2033	2056	rBV	817601	1077617	19.10%	3.034%
14	15.527	2278	2284	2298	rVB	537431	841650	14.92%	2.370%

Sum of corrected areas: 35512525

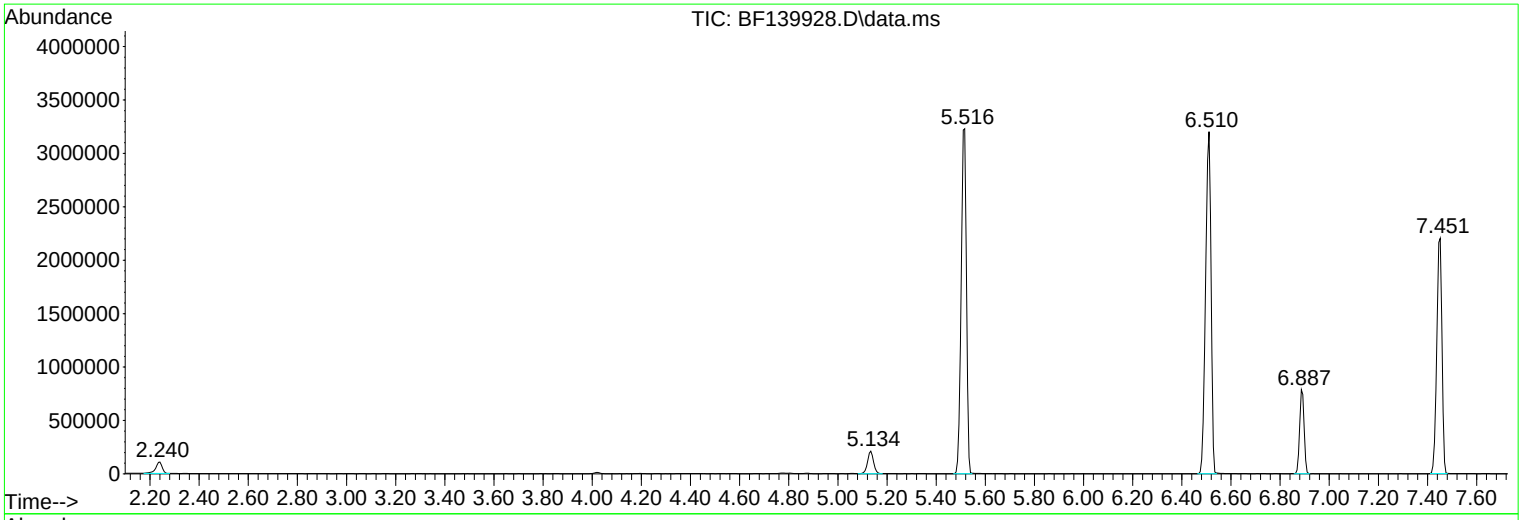
Sample Results: **BF139928.D**

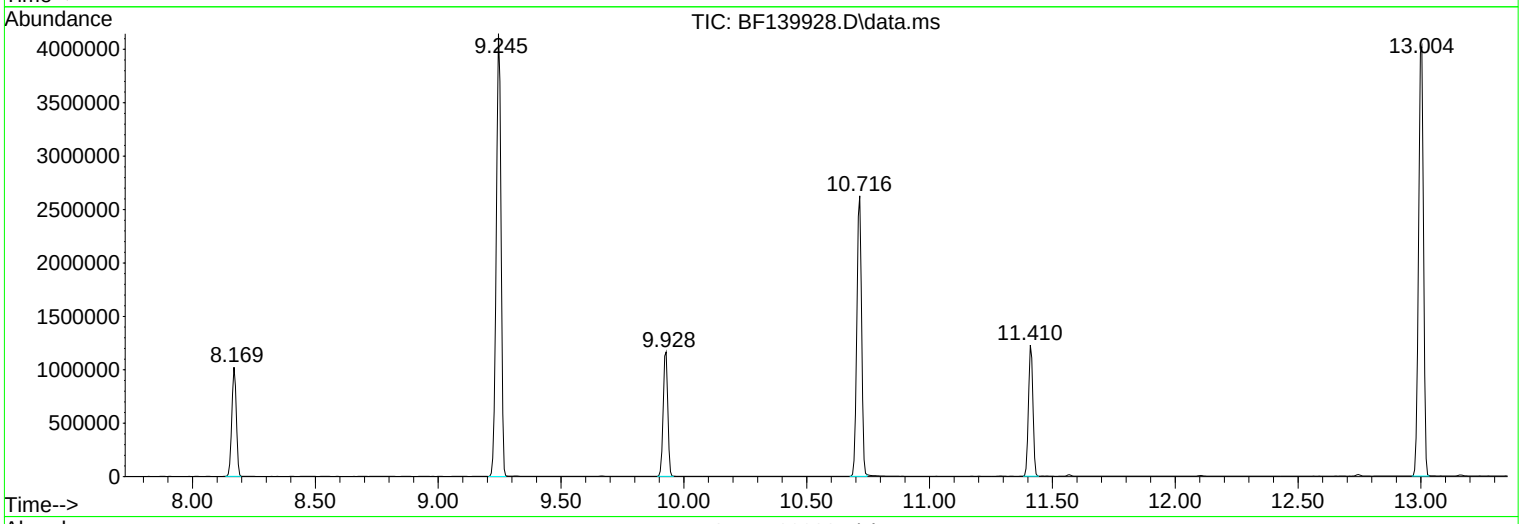
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

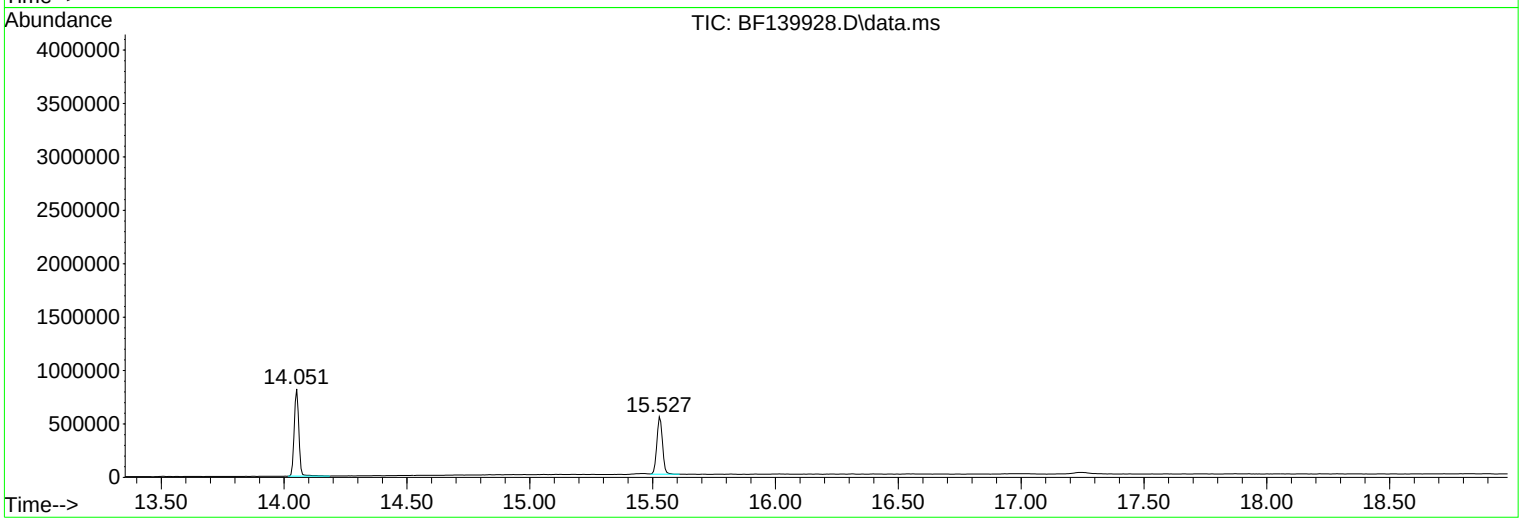
Instrument :
BNA_F
ClientSampleId :
PB164154BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

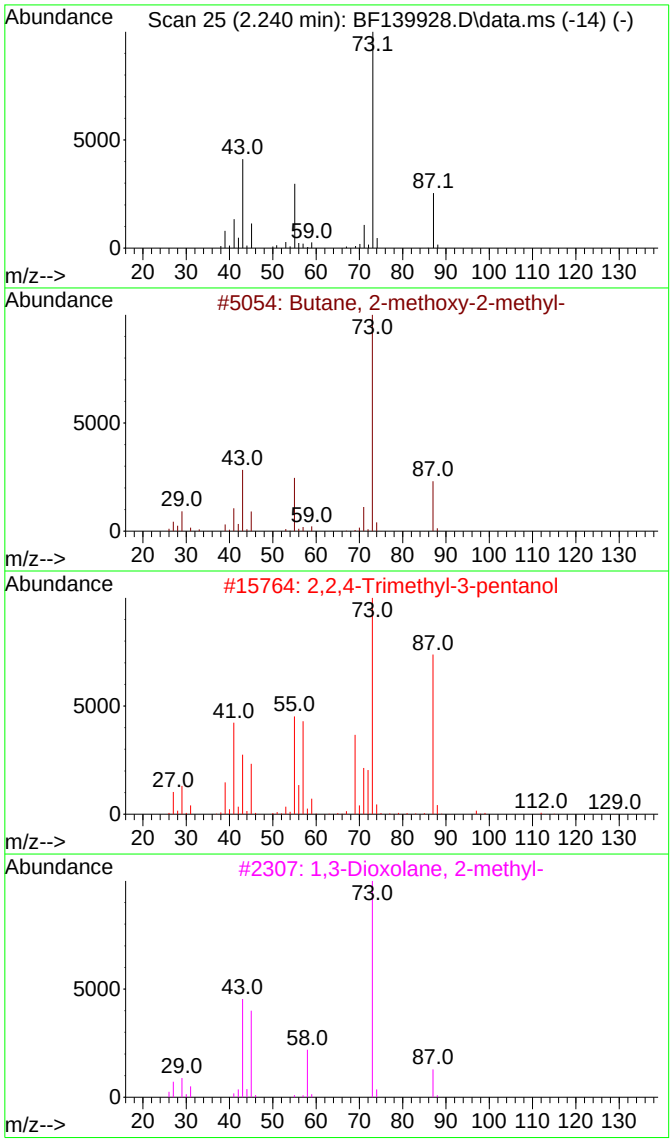
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

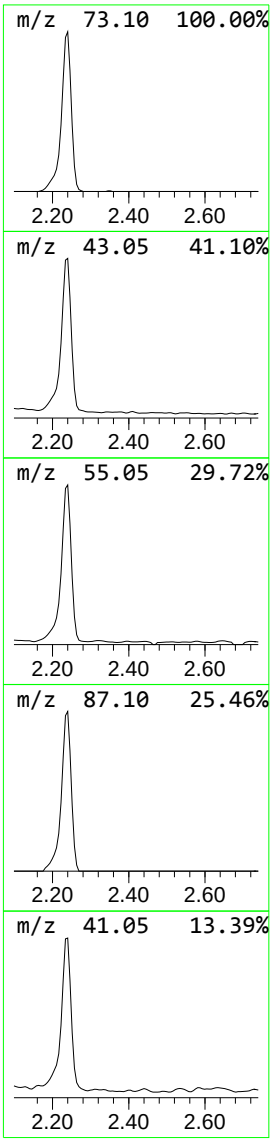
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	3.97 ng	196094	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

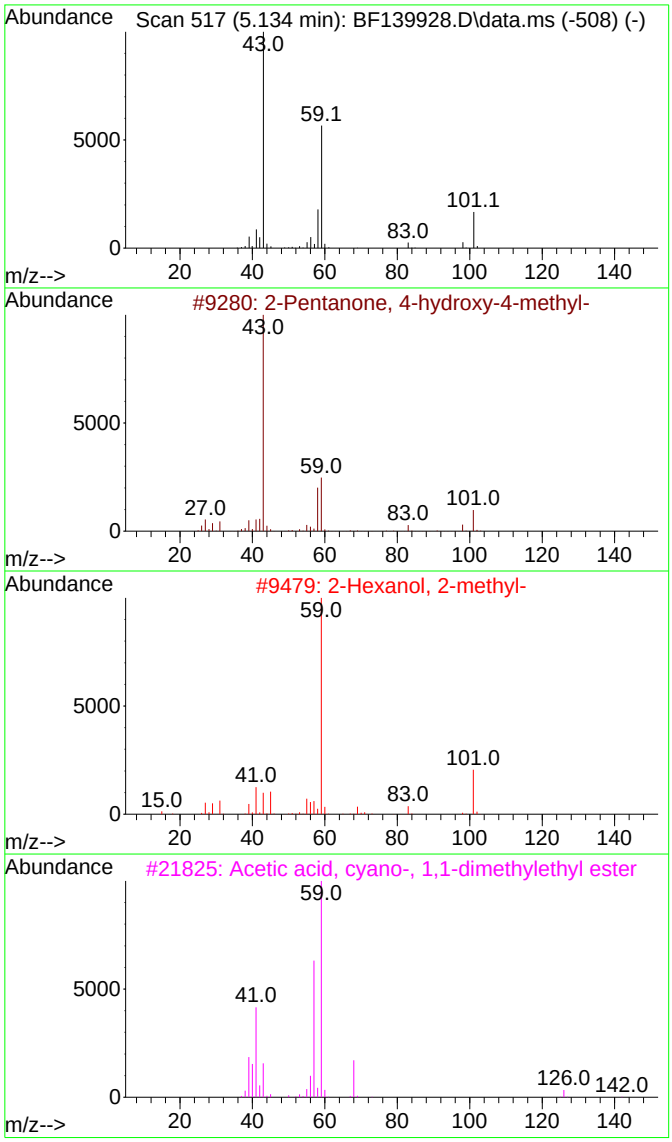
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

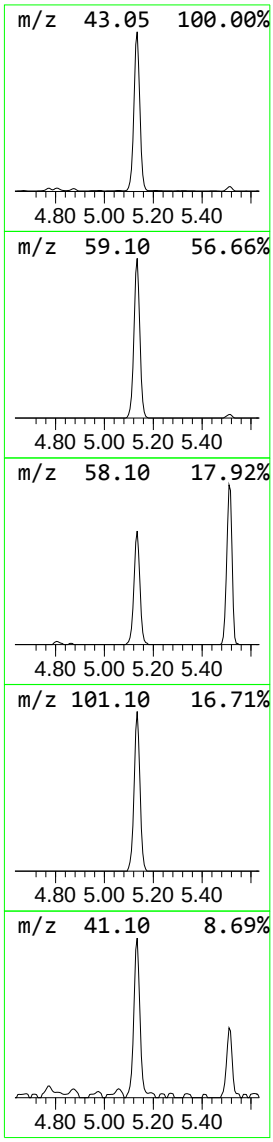
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	7.20 ng	355793	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	38
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
4	3-Octanol	130	C8H18O	000589-98-0	33
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102224\
Data File : BF139928.D
Acq On : 22 Oct 2024 14:58
Operator : RC/JU
Sample : PB164154BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.240	4.0	ng	196094	1	6.887	988889	20.0
2-Pentanone, 4-...	5.134	7.2	ng	355793	1	6.887	988889	20.0

Raw Data: **BF139959.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164123BS	SDG No.:	P4397
Lab Sample ID:	PB164123BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139959.D	1	10/14/24 10:40	10/23/24 12:39	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	580		180	330	ug/Kg
108-95-2	Phenol	1600		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.9	170	ug/Kg
98-86-2	Acetophenone	1500		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.8	170	ug/Kg
78-59-1	Isophorone	1600		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1900		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.5	170	ug/Kg
91-20-3	Naphthalene	1600		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	860		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1800		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.7	170	ug/Kg

Raw Data: **BF139959.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164123BS	SDG No.:	P4397
Lab Sample ID:	PB164123BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139959.D	1	10/14/24 10:40	10/23/24 12:39	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.2	170	ug/Kg
83-32-9	Acenaphthene	1800		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4400	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3500	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1600		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.6	170	ug/Kg
86-73-7	Fluorene	1600		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2300		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	1900		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1600		84.0	170	ug/Kg
120-12-7	Anthracene	1700		84.4	170	ug/Kg
86-74-8	Carbazole	1600		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1600		81.7	170	ug/Kg
129-00-0	Pyrene	1700		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		80.7	170	ug/Kg
218-01-9	Chrysene	1700		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.1	170	ug/Kg

Raw Data: **BF139959.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164123BS	SDG No.:	P4397
Lab Sample ID:	PB164123BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139959.D	1	10/14/24 10:40	10/23/24 12:39	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	131		30 (18) - 130 (112)	87%	SPK: 150
13127-88-3	Phenol-d6	128		30 (15) - 130 (107)	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		30 (18) - 130 (107)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.6		30 (20) - 130 (109)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		30 (10) - 130 (116)	105%	SPK: 150
1718-51-0	Terphenyl-d14	103		30 (10) - 130 (105)	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	157000	6.892			
1146-65-2	Naphthalene-d8	616000	8.175			
15067-26-2	Acenaphthene-d10	348000	9.928			
1517-22-2	Phenanthrene-d10	626000	11.416			
1719-03-5	Chrysene-d12	318000	14.057			
1520-96-3	Perylene-d12	349000	15.533			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139959.D
Acq On : 23 Oct 2024 12:39
Operator : RC/JU
Sample : PB164123BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 13:22:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164123BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	157015	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	616380	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	348472	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	625574	20.000	ng		0.00
76) Chrysene-d12	14.057	240	318250	20.000	ng		0.00
86) Perylene-d12	15.533	264	349349	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1314086	131.018	ng		0.02
7) Phenol-d6	6.516	99	1659988	127.788	ng		0.00
23) Nitrobenzene-d5	7.451	82	1077187	96.858	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	515054	158.016	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1931021	91.582	ng		0.00
79) Terphenyl-d14	13.004	244	2004549	102.635	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.763	88	175992	37.634	ng		96
3) Pyridine	3.516	79	471114	40.644	ng		96
4) n-Nitrosodimethylamine	3.469	42	267760	42.995	ng		95
6) Aniline	6.551	93	557615	46.059	ng		98
8) 2-Chlorophenol	6.675	128	511606	49.896	ng		97
9) Benzaldehyde	6.440	77	126825	17.355	ng		97
10) Phenol	6.528	94	639467m	47.749	ng		
11) bis(2-Chloroethyl)ether	6.628	93	485330	46.886	ng		98
12) 1,3-Dichlorobenzene	6.834	146	537187	45.640	ng		98
13) 1,4-Dichlorobenzene	6.910	146	546217	46.450	ng		99
14) 1,2-Dichlorobenzene	7.063	146	524912	47.829	ng		98
15) Benzyl Alcohol	7.028	79	471637	49.496	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	810592	45.925	ng		97
17) 2-Methylphenol	7.140	107	431652	49.370	ng		99
18) Hexachloroethane	7.404	117	195039	46.512	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	367544	46.651	ng		96
20) 3+4-Methylphenols	7.292	107	518857	46.396	ng	#	81
22) Acetophenone	7.298	105	692884	45.895	ng		99
24) Nitrobenzene	7.475	77	555417	45.551	ng		98
25) Isophorone	7.710	82	1009777	47.838	ng		99
26) 2-Nitrophenol	7.787	139	268407	58.350	ng		95
27) 2,4-Dimethylphenol	7.822	122	428034	55.805	ng		100
28) bis(2-Chloroethoxy)met...	7.922	93	600864	46.984	ng		100
29) 2,4-Dichlorophenol	8.028	162	425845	48.743	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	442395	45.763	ng		99
31) Naphthalene	8.192	128	1480485	46.572	ng		100
32) Benzoic acid	7.934	122	331294	49.522	ng		94
33) 4-Chloroaniline	8.239	127	279577	25.792	ng		98
34) Hexachlorobutadiene	8.310	225	281463	46.339	ng		99
35) Caprolactam	8.610	113	144372m	51.971	ng		
36) 4-Chloro-3-methylphenol	8.716	107	471188	48.707	ng		98
37) 2-Methylnaphthalene	8.886	142	934188	47.983	ng		100
38) 1-Methylnaphthalene	8.986	142	875790	45.850	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	441914	47.006	ng		99
41) Hexachlorocyclopentadiene	9.039	237	575484	175.926	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	338719	50.889	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139959.D
Acq On : 23 Oct 2024 12:39
Operator : RC/JU
Sample : PB164123BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 13:22:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164123BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	339933	49.501	ng		99
46) 1,1'-Biphenyl	9.351	154	1126703	46.445	ng		100
47) 2-Chloronaphthalene	9.375	162	901688	46.150	ng		99
48) 2-Nitroaniline	9.469	65	316703	52.999	ng		93
49) Acenaphthylene	9.792	152	1409992	49.917	ng		99
50) Dimethylphthalate	9.651	163	1070887	49.337	ng		100
51) 2,6-Dinitrotoluene	9.710	165	240598	51.194	ng		97
52) Acenaphthene	9.963	154	980931	53.683	ng		99
53) 3-Nitroaniline	9.881	138	165720	34.194	ng		95
54) 2,4-Dinitrophenol	9.986	184	264001	130.698	ng	#	1
55) Dibenzofuran	10.139	168	1240679	47.324	ng		98
56) 4-Nitrophenol	10.033	139	396279	106.278	ng		100
57) 2,4-Dinitrotoluene	10.116	165	329266	56.973	ng		96
58) Fluorene	10.480	166	935732	46.861	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	289740	53.821	ng		96
60) Diethylphthalate	10.351	149	1041864	48.887	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	475776	47.181	ng		99
62) 4-Nitroaniline	10.498	138	243551	53.208	ng		94
63) Azobenzene	10.633	77	1058273	46.839	ng		96
65) 4,6-Dinitro-2-methylph...	10.522	198	178099	69.796	ng		93
66) n-Nitrosodiphenylamine	10.592	169	894297	47.764	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	313776	48.688	ng		94
68) Hexachlorobenzene	11.028	284	354277	48.879	ng		95
69) Atrazine	11.116	200	291198	57.414	ng		99
70) Pentachlorophenol	11.216	266	442639	100.626	ng		100
71) Phenanthrene	11.445	178	1412519	47.802	ng		100
72) Anthracene	11.492	178	1430590	49.620	ng		99
73) Carbazole	11.645	167	1254503	46.786	ng		100
74) Di-n-butylphthalate	11.975	149	1506787	48.640	ng		100
75) Fluoranthene	12.627	202	1394053	46.667	ng		100
77) Benzidine	12.745	184	329626	62.989	ng		99
78) Pyrene	12.857	202	1391086	49.936	ng		100
80) Butylbenzylphthalate	13.474	149	451349	54.043	ng		98
81) Benzo(a)anthracene	14.045	228	1042409	50.317	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	240244	39.773	ng		98
83) Chrysene	14.080	228	963784	50.739	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	532526	56.832	ng		99
85) Di-n-octyl phthalate	14.645	149	950001	55.741	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	1244594	55.378	ng		98
88) Benzo(b)fluoranthene	15.098	252	1062781	49.941	ng		99
89) Benzo(k)fluoranthene	15.127	252	864638	47.112	ng		100
90) Benzo(a)pyrene	15.468	252	941642	53.776	ng		99
91) Dibenzo(a,h)anthracene	17.057	278	1028811	54.874	ng		98
92) Benzo(g,h,i)perylene	17.486	276	954801	50.984	ng		99

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

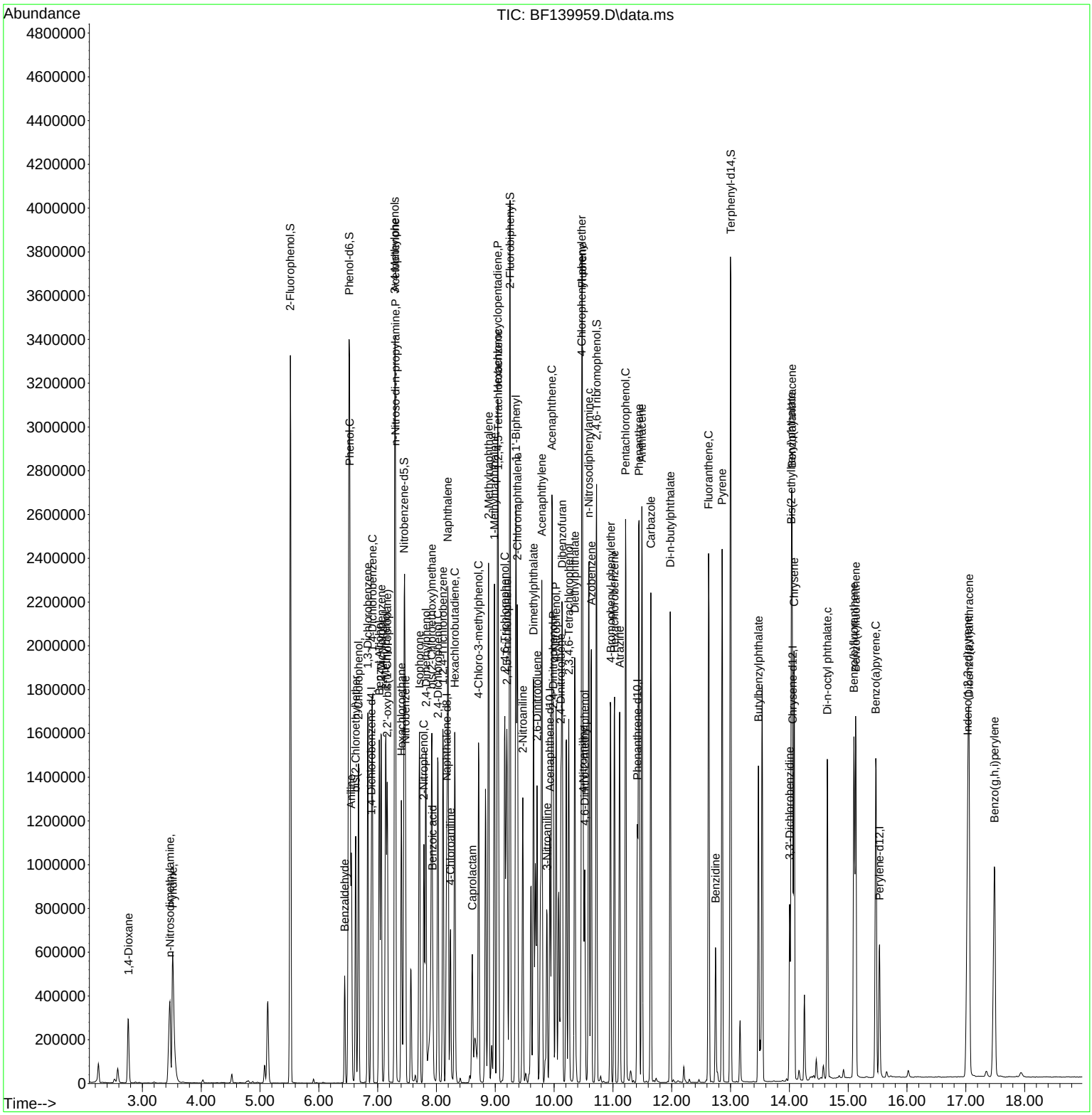
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139959.D
Acq On : 23 Oct 2024 12:39
Operator : RC/JU
Sample : PB164123BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 23 13:22:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164123BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024



Raw Data: **BF139960.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BS	SDG No.:	P4397
Lab Sample ID:	PB164154BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139960.D	1	10/15/24 08:40	10/23/24 13:07	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	17.2		4.00	10.0	ug/L
108-95-2	Phenol	46.9		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	46.9		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	49.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	48.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.0		1.40	5.00	ug/L
98-86-2	Acetophenone	46.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	46.5		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	46.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.2		1.30	5.00	ug/L
78-59-1	Isophorone	48.7		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	58.6		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	57.2		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.3		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	49.9		0.88	5.00	ug/L
91-20-3	Naphthalene	46.9		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	21.5		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	47.9		1.30	5.00	ug/L
105-60-2	Caprolactam	49.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	49.5		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	48.6		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	180	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	52.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.7		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.5		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.5		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	54.0		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	50.5		0.93	5.00	ug/L

Raw Data: **BF139960.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BS	SDG No.:	P4397
Lab Sample ID:	PB164154BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139960.D	1	10/15/24 08:40	10/23/24 13:07	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	50.9		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	52.4		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	31.2		1.40	5.00	ug/L
83-32-9	Acenaphthene	55.1		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	130	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	110	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.2		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	49.9		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	48.4		0.98	5.00	ug/L
86-73-7	Fluorene	48.1		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	52.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	70.2		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	48.0		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.9		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	49.6		1.10	5.00	ug/L
1912-24-9	Atrazine	58.1		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	99.9	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	48.2		0.89	5.00	ug/L
120-12-7	Anthracene	50.3		1.10	5.00	ug/L
86-74-8	Carbazole	46.4		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	49.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	47.2		1.30	5.00	ug/L
129-00-0	Pyrene	48.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.0		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	35.3		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.3		0.94	5.00	ug/L
218-01-9	Chrysene	50.9		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	57.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.1		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	49.8		1.10	5.00	ug/L

Raw Data: **BF139960.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BS	SDG No.:	P4397
Lab Sample ID:	PB164154BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139960.D	1	10/15/24 08:40	10/23/24 13:07	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	48.7		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	53.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	53.2		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	52.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	48.5		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.4		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.2		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	53.8		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	129		15 (10) - 110 (139)	86%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.5		30 (49) - 130 (133)	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.3		30 (52) - 130 (132)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		15 (44) - 110 (137)	106%	SPK: 150
1718-51-0	Terphenyl-d14	98.4		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	155000	6.893			
1146-65-2	Naphthalene-d8	598000	8.175			
15067-26-2	Acenaphthene-d10	337000	9.928			
1517-22-2	Phenanthrene-d10	612000	11.416			
1719-03-5	Chrysene-d12	326000	14.057			
1520-96-3	Perylene-d12	358000	15.533			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139960.D
Acq On : 23 Oct 2024 13:07
Operator : RC/JU
Sample : PB164154BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 23 13:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164154BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	155060	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	598190	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	337425	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	611801	20.000	ng	0.00
76) Chrysene-d12	14.057	240	325970	20.000	ng	0.00
86) Perylene-d12	15.533	264	358287	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1272846	128.507	ng	0.02
7) Phenol-d6	6.516	99	1628123	126.915	ng	0.00
23) Nitrobenzene-d5	7.451	82	1062598	98.452	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	502653	159.261	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1905194	93.316	ng	0.00
79) Terphenyl-d14	12.998	244	1968137	98.385	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	181218	39.241	ng	94
3) Pyridine	3.522	79	479042	41.849	ng	97
4) n-Nitrosodimethylamine	3.475	42	266874	43.393	ng	95
6) Aniline	6.551	93	484680	40.539	ng	98
8) 2-Chlorophenol	6.675	128	503876	49.762	ng	98
9) Benzaldehyde	6.440	77	124231	17.214	ng	98
10) Phenol	6.528	94	619901m	46.872	ng	
11) bis(2-Chloroethyl)ether	6.628	93	479759	46.932	ng	99
12) 1,3-Dichlorobenzene	6.834	146	529493	45.553	ng	99
13) 1,4-Dichlorobenzene	6.910	146	543764	46.825	ng	99
14) 1,2-Dichlorobenzene	7.063	146	520985	48.070	ng	98
15) Benzyl Alcohol	7.028	79	462205	49.118	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	801294	45.971	ng	97
17) 2-Methylphenol	7.140	107	422006	48.876	ng	99
18) Hexachloroethane	7.404	117	195917	47.310	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	363348	46.700	ng	96
20) 3+4-Methylphenols	7.287	107	513204	46.470	ng	93
22) Acetophenone	7.298	105	678917	46.337	ng	99
24) Nitrobenzene	7.469	77	546867	46.214	ng	99
25) Isophorone	7.710	82	996658	48.653	ng	99
26) 2-Nitrophenol	7.787	139	261637	58.608	ng	95
27) 2,4-Dimethylphenol	7.822	122	425922	57.218	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	599138	48.273	ng	100
29) 2,4-Dichlorophenol	8.028	162	422786	49.864	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	437000	46.579	ng	99
31) Naphthalene	8.192	128	1447102	46.906	ng	100
32) Benzoic acid	7.934	122	331855	51.114	ng	96
33) 4-Chloroaniline	8.240	127	226613	21.542	ng	98
34) Hexachlorobutadiene	8.310	225	282324	47.894	ng	99
35) Caprolactam	8.610	113	133451m	49.501	ng	
36) 4-Chloro-3-methylphenol	8.716	107	464991	49.528	ng	99
37) 2-Methylnaphthalene	8.887	142	918290	48.601	ng	100
38) 1-Methylnaphthalene	8.987	142	862092	46.505	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	431129	47.360	ng	99
41) Hexachlorocyclopentadiene	9.039	237	567205	179.072	ng	99
43) 2,4,6-Trichlorophenol	9.163	196	336220	52.168	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139960.D
Acq On : 23 Oct 2024 13:07
Operator : RC/JU
Sample : PB164154BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164154BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Quant Time: Oct 23 13:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	330382	49.686	ng		100
46) 1,1'-Biphenyl	9.351	154	1115152	47.474	ng		100
47) 2-Chloronaphthalene	9.375	162	879879	46.508	ng		100
48) 2-Nitroaniline	9.469	65	312352	53.982	ng		93
49) Acenaphthylene	9.792	152	1392576	50.915	ng		100
50) Dimethylphthalate	9.651	163	1061203	50.491	ng		100
51) 2,6-Dinitrotoluene	9.710	165	238284	52.362	ng		96
52) Acenaphthene	9.963	154	974519	55.078	ng		98
53) 3-Nitroaniline	9.875	138	146617	31.242	ng		95
54) 2,4-Dinitrophenol	9.986	184	261212	133.409	ng	#	1
55) Dibenzofuran	10.134	168	1224268	48.227	ng		99
56) 4-Nitrophenol	10.034	139	393084	108.873	ng		99
57) 2,4-Dinitrotoluene	10.116	165	323562	57.819	ng		96
58) Fluorene	10.481	166	929505	48.073	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	280379	53.788	ng		96
60) Diethylphthalate	10.351	149	1030661	49.945	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	472382	48.378	ng		98
62) 4-Nitroaniline	10.498	138	233090	52.589	ng		96
63) Azobenzene	10.628	77	1048244	47.914	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	175060	70.150	ng		92
66) n-Nitrosodiphenylamine	10.586	169	878190	47.960	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	314317	49.870	ng		94
68) Hexachlorobenzene	11.028	284	351330	49.564	ng		96
69) Atrazine	11.116	200	288364	58.136	ng		99
70) Pentachlorophenol	11.216	266	429890	99.928	ng		99
71) Phenanthrene	11.439	178	1394242	48.246	ng		100
72) Anthracene	11.492	178	1419494	50.343	ng		100
73) Carbazole	11.645	167	1215745	46.362	ng		99
74) Di-n-butylphthalate	11.975	149	1483161	48.955	ng		100
75) Fluoranthene	12.627	202	1377658	47.157	ng		100
77) Benzidine	12.745	184	297260	55.458	ng		99
78) Pyrene	12.857	202	1384172	48.511	ng		100
80) Butylbenzylphthalate	13.475	149	461755	53.979	ng		100
81) Benzo(a)anthracene	14.045	228	1066844	50.276	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	218434	35.306	ng		100
83) Chrysene	14.080	228	989412	50.854	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	554575	57.783	ng	#	98
85) Di-n-octyl phthalate	14.645	149	995907	57.050	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	1227173	53.241	ng		98
88) Benzo(b)fluoranthene	15.098	252	1086886	49.799	ng		100
89) Benzo(k)fluoranthene	15.127	252	916238	48.678	ng		100
90) Benzo(a)pyrene	15.468	252	960094	53.462	ng		100
91) Dibenzo(a,h)anthracene	17.057	278	1006006	52.319	ng		98
92) Benzo(g,h,i)perylene	17.486	276	931789	48.514	ng		99

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

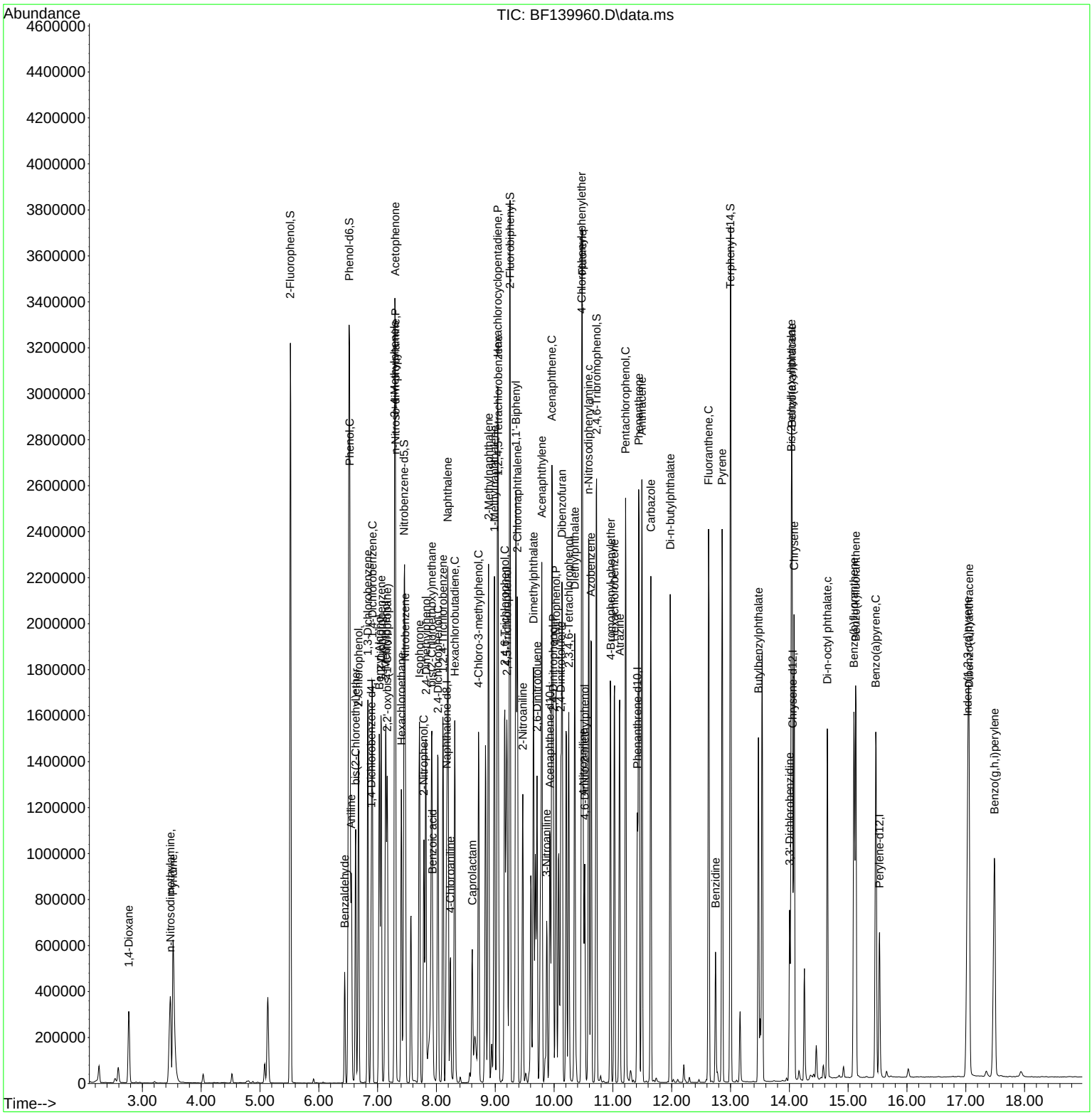
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139960.D
Acq On : 23 Oct 2024 13:07
Operator : RC/JU
Sample : PB164154BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 23 13:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164154BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024



Raw Data: **BF139961.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BSD	SDG No.:	P4397
Lab Sample ID:	PB164154BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139961.D	1	10/15/24 08:40	10/23/24 13:36	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	17.2		4.00	10.0	ug/L
108-95-2	Phenol	46.9		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	46.4		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	49.6		0.71	5.00	ug/L
95-48-7	2-Methylphenol	48.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	45.7		1.40	5.00	ug/L
98-86-2	Acetophenone	45.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.7		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	46.4		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.5		1.30	5.00	ug/L
78-59-1	Isophorone	47.3		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	57.9		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	46.7		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	48.8		0.88	5.00	ug/L
91-20-3	Naphthalene	45.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	19.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.7		1.30	5.00	ug/L
105-60-2	Caprolactam	51.4		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	48.4		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	47.3		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	170	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.6		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	46.7		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.1		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	53.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	49.8		0.93	5.00	ug/L

Raw Data: **BF139961.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BSD	SDG No.:	P4397
Lab Sample ID:	PB164154BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139961.D	1	10/15/24 08:40	10/23/24 13:36	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	50.5		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	52.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	30.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	53.9		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	130	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	110	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	47.6		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	49.0		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.6		0.98	5.00	ug/L
86-73-7	Fluorene	47.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	52.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	70.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	47.7		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	48.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	47.9		1.10	5.00	ug/L
1912-24-9	Atrazine	58.6		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	47.5		0.89	5.00	ug/L
120-12-7	Anthracene	49.3		1.10	5.00	ug/L
86-74-8	Carbazole	46.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	48.8		1.50	5.00	ug/L
206-44-0	Fluoranthene	46.5		1.30	5.00	ug/L
129-00-0	Pyrene	49.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	55.1		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	34.2		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.8		0.94	5.00	ug/L
218-01-9	Chrysene	50.6		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	57.5		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	53.8		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	49.3		1.10	5.00	ug/L

Raw Data: **BF139961.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164154BSD	SDG No.:	P4397
Lab Sample ID:	PB164154BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139961.D	1	10/15/24 08:40	10/23/24 13:36	PB164154

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	48.9		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	54.2		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	54.0		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	53.1		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	48.9		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.8		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.3		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	53.9		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	126		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.3		30 (49) - 130 (133)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.4		30 (52) - 130 (132)	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		15 (44) - 110 (137)	107%	SPK: 150
1718-51-0	Terphenyl-d14	100		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	162000	6.893			
1146-65-2	Naphthalene-d8	636000	8.175			
15067-26-2	Acenaphthene-d10	356000	9.928			
1517-22-2	Phenanthrene-d10	647000	11.416			
1719-03-5	Chrysene-d12	336000	14.057			
1520-96-3	Perylene-d12	358000	15.533			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139961.D
Acq On : 23 Oct 2024 13:36
Operator : RC/JU
Sample : PB164154BSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 13:59:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164154BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.893	152	161665	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	636044	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	355843	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	646570	20.000	ng		0.00
76) Chrysene-d12	14.057	240	335936	20.000	ng		0.00
86) Perylene-d12	15.533	264	357796	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1319109	127.736	ng		0.02
7) Phenol-d6	6.516	99	1685264	126.002	ng		0.00
23) Nitrobenzene-d5	7.451	82	1104799	96.270	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	534646	160.629	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1946395	90.399	ng		0.00
79) Terphenyl-d14	13.004	244	2069951	100.404	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.775	88	189334	39.323	ng		94
3) Pyridine	3.528	79	499060	41.816	ng		95
4) n-Nitrosodimethylamine	3.481	42	277359	43.255	ng		96
6) Aniline	6.551	93	502708	40.329	ng		98
8) 2-Chlorophenol	6.675	128	524066	49.641	ng		98
9) Benzaldehyde	6.440	77	129085	17.156	ng		98
10) Phenol	6.528	94	646060m	46.854	ng		
11) bis(2-Chloroethyl)ether	6.628	93	494832	46.429	ng		99
12) 1,3-Dichlorobenzene	6.834	146	550631	45.436	ng		98
13) 1,4-Dichlorobenzene	6.910	146	559405	46.204	ng		99
14) 1,2-Dichlorobenzene	7.063	146	537705	47.585	ng		98
15) Benzyl Alcohol	7.028	79	478997	48.822	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	831226	45.740	ng		97
17) 2-Methylphenol	7.140	107	436758	48.518	ng		100
18) Hexachloroethane	7.404	117	204069	47.266	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	376708	46.439	ng		96
20) 3+4-Methylphenols	7.293	107	526338	45.712	ng	#	81
22) Acetophenone	7.298	105	705241	45.269	ng		100
24) Nitrobenzene	7.475	77	573014	45.541	ng		98
25) Isophorone	7.710	82	1030410	47.307	ng		99
26) 2-Nitrophenol	7.787	139	274915	57.917	ng		95
27) 2,4-Dimethylphenol	7.822	122	442007	55.845	ng		99
28) bis(2-Chloroethoxy)met...	7.922	93	616428	46.711	ng		100
29) 2,4-Dichlorophenol	8.028	162	439495	48.750	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	454400	45.551	ng		99
31) Naphthalene	8.192	128	1503638	45.838	ng		100
32) Benzoic acid	7.934	122	344080	49.843	ng		97
33) 4-Chloroaniline	8.240	127	220991	19.757	ng		97
34) Hexachlorobutadiene	8.310	225	292600	46.683	ng		99
35) Caprolactam	8.610	113	147240m	51.365	ng		
36) 4-Chloro-3-methylphenol	8.716	107	483040	48.389	ng		99
37) 2-Methylnaphthalene	8.887	142	950365	47.305	ng		99
38) 1-Methylnaphthalene	8.987	142	894132	45.363	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	449111	46.782	ng		99
41) Hexachlorocyclopentadiene	9.039	237	584487	174.977	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	345841	50.883	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139961.D
Acq On : 23 Oct 2024 13:36
Operator : RC/JU
Sample : PB164154BSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 13:59:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164154BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	347946	49.619	ng		98
46) 1,1'-Biphenyl	9.351	154	1156329	46.679	ng		99
47) 2-Chloronaphthalene	9.375	162	919760	46.100	ng		100
48) 2-Nitroaniline	9.469	65	328006	53.753	ng		93
49) Acenaphthylene	9.792	152	1457542	50.532	ng		99
50) Dimethylphthalate	9.651	163	1104702	49.841	ng		99
51) 2,6-Dinitrotoluene	9.710	165	250701	52.239	ng		97
52) Acenaphthene	9.963	154	1005969	53.913	ng		99
53) 3-Nitroaniline	9.881	138	151706	30.654	ng		93
54) 2,4-Dinitrophenol	9.986	184	273036	132.288	ng	#	1
55) Dibenzofuran	10.139	168	1274548	47.609	ng		98
56) 4-Nitrophenol	10.034	139	408257	107.223	ng		100
57) 2,4-Dinitrotoluene	10.116	165	340646	57.721	ng		96
58) Fluorene	10.481	166	967345	47.441	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	296508	53.938	ng		97
60) Diethylphthalate	10.351	149	1066263	48.995	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	489688	47.555	ng		99
62) 4-Nitroaniline	10.498	138	245826	52.592	ng		98
63) Azobenzene	10.633	77	1095176	47.468	ng		96
65) 4,6-Dinitro-2-methylph...	10.522	198	185801	70.450	ng		92
66) n-Nitrosodiphenylamine	10.592	169	922858	47.689	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	324462	48.711	ng		94
68) Hexachlorobenzene	11.028	284	358709	47.884	ng		96
69) Atrazine	11.116	200	307011	58.567	ng		100
70) Pentachlorophenol	11.216	266	454447	99.955	ng		99
71) Phenanthrene	11.445	178	1451375	47.522	ng		100
72) Anthracene	11.492	178	1468169	49.270	ng		99
73) Carbazole	11.645	167	1291336	46.596	ng		99
74) Di-n-butylphthalate	11.975	149	1560879	48.750	ng		100
75) Fluoranthene	12.627	202	1437108	46.546	ng		99
77) Benzidine	12.745	184	310637	56.235	ng		99
78) Pyrene	12.857	202	1455283	49.490	ng		99
80) Butylbenzylphthalate	13.474	149	485460	55.067	ng		99
81) Benzo(a)anthracene	14.045	228	1088912	49.794	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	218064	34.200	ng		99
83) Chrysene	14.080	228	1013566	50.550	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	568264	57.453	ng		99
85) Di-n-octyl phthalate	14.645	149	968166	53.816	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	1241821	53.950	ng		98
88) Benzo(b)fluoranthene	15.098	252	1073628	49.259	ng		99
89) Benzo(k)fluoranthene	15.133	252	919342	48.910	ng		99
90) Benzo(a)pyrene	15.474	252	972366	54.219	ng		98
91) Dibenzo(a,h)anthracene	17.057	278	1019996	53.119	ng		99
92) Benzo(g,h,i)perylene	17.486	276	938810	48.946	ng		99

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

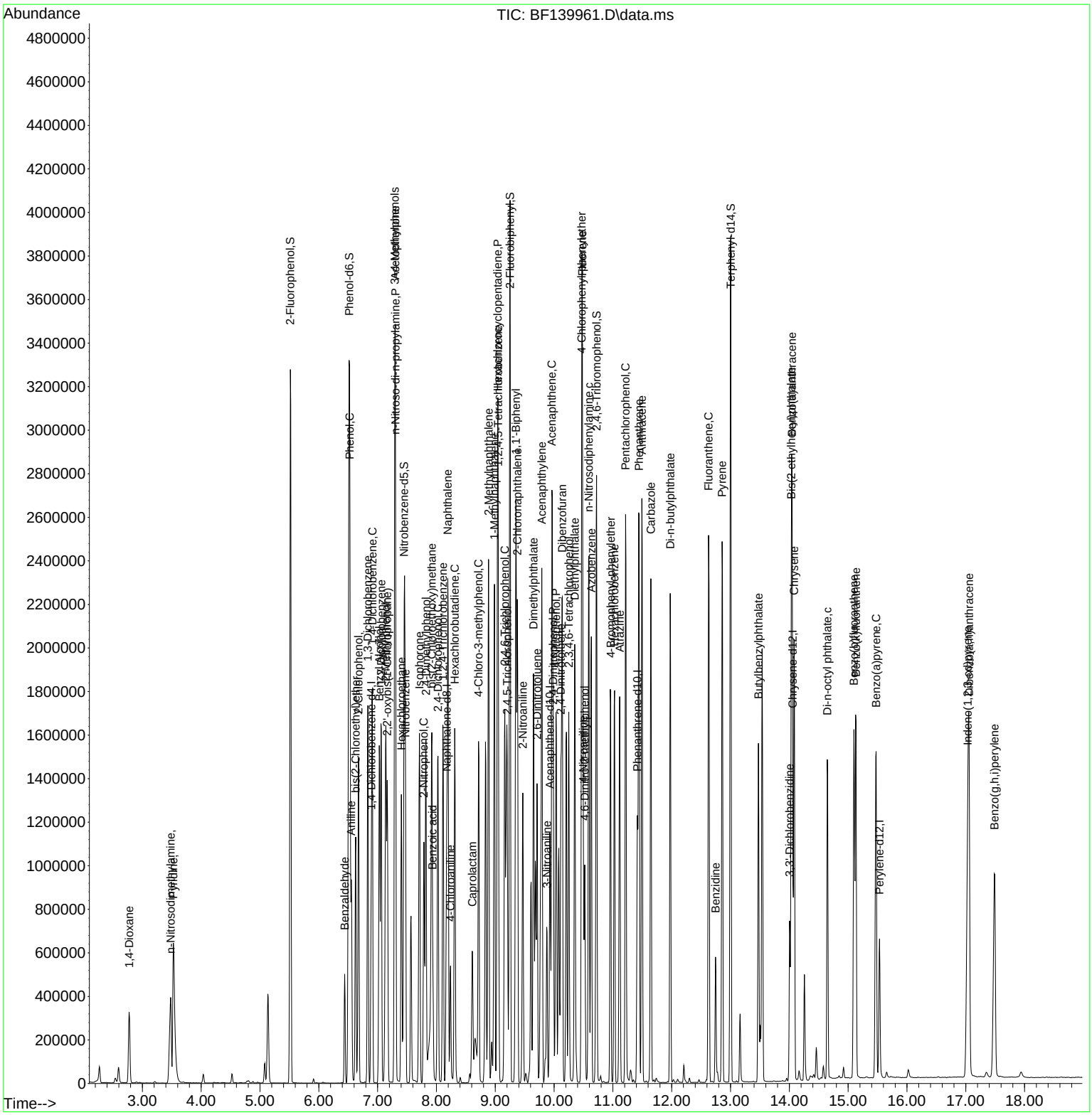
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139961.D
Acq On : 23 Oct 2024 13:36
Operator : RC/JU
Sample : PB164154BSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 23 13:59:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164154BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/24/2024



Raw Data: **BF139977.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMS	SDG No.:	P4397
Lab Sample ID:	P4397-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139977.D	1	10/14/24 10:40	10/23/24 21:20	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	830		240	430	ug/Kg
108-95-2	Phenol	2100		110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2200		110	220	ug/Kg
95-48-7	2-Methylphenol	2200		110	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2100		120	220	ug/Kg
98-86-2	Acetophenone	2200		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2100		100	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		52.9	110	ug/Kg
67-72-1	Hexachloroethane	2100		110	220	ug/Kg
98-95-3	Nitrobenzene	2200		120	220	ug/Kg
78-59-1	Isophorone	2200		110	220	ug/Kg
88-75-5	2-Nitrophenol	2600		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2500		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		99.1	220	ug/Kg
91-20-3	Naphthalene	2200		110	220	ug/Kg
106-47-8	4-Chloroaniline	550		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2200		110	220	ug/Kg
105-60-2	Caprolactam	2100		110	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		100	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100		200	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2400		93.8	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		97.2	220	ug/Kg
92-52-4	1,1-Biphenyl	2300		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2200		110	220	ug/Kg
88-74-4	2-Nitroaniline	2400		120	220	ug/Kg
131-11-3	Dimethylphthalate	2400		110	220	ug/Kg

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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
BF139977.D	1	10/14/24 10:40	10/23/24 21:20	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2300		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2300		110	220	ug/Kg
99-09-2	3-Nitroaniline	1300		120	220	ug/Kg
83-32-9	Acenaphthene	2400		110	220	ug/Kg
51-28-5	2,4-Dinitrophenol	2400		320	430	ug/Kg
100-02-7	4-Nitrophenol	4100	E	150	430	ug/Kg
132-64-9	Dibenzofuran	2200		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2400		110	220	ug/Kg
84-66-2	Diethylphthalate	2200		110	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2200		110	220	ug/Kg
86-73-7	Fluorene	2100		110	220	ug/Kg
100-01-6	4-Nitroaniline	1900		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		150	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2600		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2600		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2400		110	220	ug/Kg
1912-24-9	Atrazine	2900		120	220	ug/Kg
87-86-5	Pentachlorophenol	4400	E	100	430	ug/Kg
85-01-8	Phenanthrene	2600		110	220	ug/Kg
120-12-7	Anthracene	2500		110	220	ug/Kg
86-74-8	Carbazole	2200		110	220	ug/Kg
84-74-2	Di-n-butylphthalate	2500		110	220	ug/Kg
206-44-0	Fluoranthene	2400		110	220	ug/Kg
129-00-0	Pyrene	1800		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2400		130	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		130	430	ug/Kg
56-55-3	Benzo(a)anthracene	2400		110	220	ug/Kg
218-01-9	Chrysene	2400		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3000		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	3100		140	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2600		110	220	ug/Kg

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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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BF139977.D	1	10/14/24 10:40	10/23/24 21:20	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2400		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		110	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		110	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		110	220	ug/Kg
123-91-1	1,4-Dioxane	2100		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		98.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	115		30 (18) - 130 (112)	76%	SPK: 150
13127-88-3	Phenol-d6	111		30 (15) - 130 (107)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.2		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.7		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		30 (10) - 130 (116)	76%	SPK: 150
1718-51-0	Terphenyl-d14	62.7		30 (10) - 130 (105)	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	145000	6.893			
1146-65-2	Naphthalene-d8	535000	8.175			
15067-26-2	Acenaphthene-d10	264000	9.928			
1517-22-2	Phenanthrene-d10	377000	11.416			
1719-03-5	Chrysene-d12	298000	14.057			
1520-96-3	Perylene-d12	304000	15.527			

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139977.D
Acq On : 23 Oct 2024 21:20
Operator : RC/JU
Sample : P4397-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMS

Quant Time: Oct 24 01:12:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	145039	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	535106	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	263539	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	377320	20.000	ng	0.00
76) Chrysene-d12	14.057	240	297713	20.000	ng	0.00
86) Perylene-d12	15.527	264	304160	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1061586	114.583	ng	0.02
7) Phenol-d6	6.516	99	1332741	111.067	ng	0.00
23) Nitrobenzene-d5	7.451	82	842035	87.214	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	280549	113.810	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1397699	87.652	ng	0.00
79) Terphenyl-d14	12.998	244	1145736	62.710	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	203136	47.026	ng	94
3) Pyridine	3.522	79	486426	45.430	ng	96
4) n-Nitrosodimethylamine	3.475	42	271618	47.216	ng	95
6) Aniline	6.551	93	341256	30.515	ng	97
8) 2-Chlorophenol	6.675	128	485993	51.312	ng	97
9) Benzaldehyde	6.440	77	127637	18.908	ng	97
10) Phenol	6.528	94	600141m	48.513	ng	
11) bis(2-Chloroethyl)ether	6.628	93	476724	49.858	ng	98
12) 1,3-Dichlorobenzene	6.834	146	529757	48.725	ng	98
13) 1,4-Dichlorobenzene	6.910	146	536427	49.385	ng	99
14) 1,2-Dichlorobenzene	7.063	146	514070	50.709	ng	97
15) Benzyl Alcohol	7.028	79	437440	49.698	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	777285	47.675	ng	97
17) 2-Methylphenol	7.140	107	399548	49.472	ng	99
18) Hexachloroethane	7.404	117	189431	48.905	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	343817	47.243	ng	95
20) 3+4-Methylphenols	7.287	107	488080	47.248	ng	95
22) Acetophenone	7.298	105	656515	50.091	ng	97
24) Nitrobenzene	7.469	77	521971	49.310	ng	99
25) Isophorone	7.710	82	934740	51.009	ng	99
26) 2-Nitrophenol	7.787	139	239518	59.978	ng	95
27) 2,4-Dimethylphenol	7.816	122	387363	58.173	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	559563	50.400	ng	100
29) 2,4-Dichlorophenol	8.022	162	379393	50.022	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	409284	48.768	ng	100
31) Naphthalene	8.192	128	1392449	50.456	ng	100
32) Benzoic acid	7.916	122	225970	38.908	ng	98
33) 4-Chloroaniline	8.240	127	118687	12.612	ng	97
34) Hexachlorobutadiene	8.310	225	265253	50.303	ng	99
35) Caprolactam	8.604	113	114307m	47.398	ng	
36) 4-Chloro-3-methylphenol	8.716	107	401310	47.785	ng	99
37) 2-Methylnaphthalene	8.887	142	852979	50.467	ng	100
38) 1-Methylnaphthalene	8.987	142	789589	47.615	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	395277	55.595	ng	99
41) Hexachlorocyclopentadiene	9.039	237	174108	70.378	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	277530	55.134	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139977.D
Acq On : 23 Oct 2024 21:20
Operator : RC/JU
Sample : P4397-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMS

Quant Time: Oct 24 01:12:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

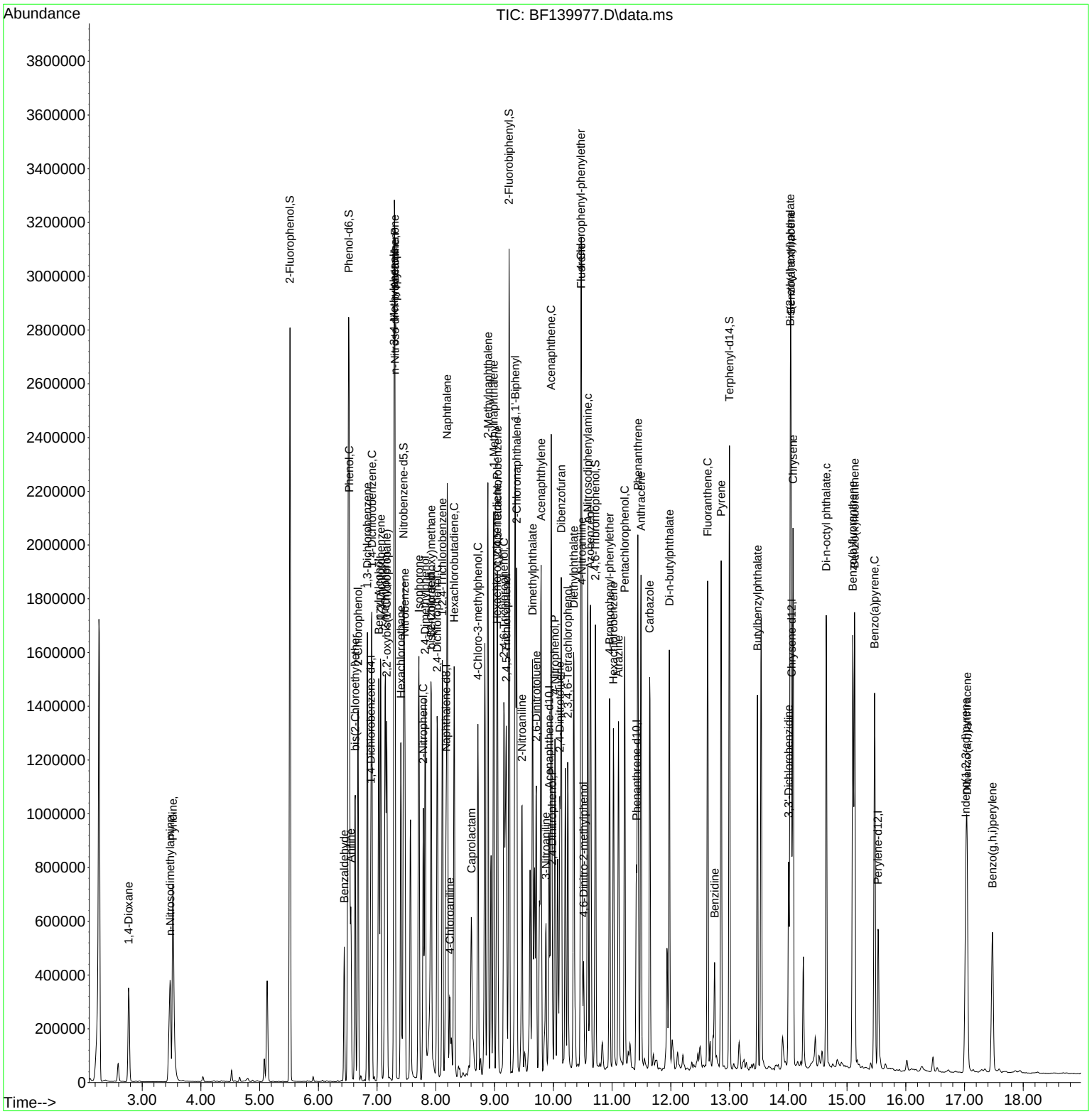
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	259382	49.944	ng		99
46) 1,1'-Biphenyl	9.351	154	972821	53.026	ng		100
47) 2-Chloronaphthalene	9.375	162	754588	51.068	ng		100
48) 2-Nitroaniline	9.463	65	249911	55.300	ng		96
49) Acenaphthylene	9.792	152	1135463	53.153	ng		100
50) Dimethylphthalate	9.645	163	886466	54.003	ng		100
51) 2,6-Dinitrotoluene	9.710	165	186311	52.419	ng		95
52) Acenaphthene	9.963	154	747502	54.092	ng		98
53) 3-Nitroaniline	9.875	138	110802	30.230	ng		96
54) 2,4-Dinitrophenol	9.981	184	77722	54.865	ng	#	1
55) Dibenzofuran	10.134	168	985836	49.722	ng		98
56) 4-Nitrophenol	10.028	139	263177	93.328	ng		98
57) 2,4-Dinitrotoluene	10.110	165	235726	53.932	ng	#	96
58) Fluorene	10.475	166	728456	48.238	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	195193	47.944	ng		95
60) Diethylphthalate	10.345	149	814166	50.515	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	374831	49.150	ng		98
62) 4-Nitroaniline	10.486	138	147678	42.660	ng		96
63) Azobenzene	10.628	77	961318	56.260	ng		93
65) 4,6-Dinitro-2-methylph...	10.516	198	66791	43.397	ng		93
66) n-Nitrosodiphenylamine	10.586	169	664599	58.850	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	226580	58.290	ng		96
68) Hexachlorobenzene	11.022	284	236364	54.067	ng		98
69) Atrazine	11.110	200	203957	66.671	ng		100
70) Pentachlorophenol	11.216	266	268299	101.122	ng		99
71) Phenanthrene	11.439	178	1043799	58.565	ng		100
72) Anthracene	11.492	178	991993	57.045	ng		100
73) Carbazole	11.639	167	826188	51.085	ng		99
74) Di-n-butylphthalate	11.975	149	1064494	56.971	ng		99
75) Fluoranthene	12.627	202	1008266	55.960	ng		99
77) Benzidine	12.745	184	205525	41.983	ng		99
78) Pyrene	12.857	202	1063411	40.807	ng		100
80) Butylbenzylphthalate	13.474	149	435867	55.789	ng		98
81) Benzo(a)anthracene	14.045	228	1050257	54.192	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	231442	40.959	ng		99
83) Chrysene	14.080	228	964181	54.261	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	596526	68.054	ng	#	99
85) Di-n-octyl phthalate	14.645	149	1111486	69.714	ng		97
87) Indeno(1,2,3-cd)pyrene	17.021	276	688441	35.183	ng		98
88) Benzo(b)fluoranthene	15.098	252	1103565	59.562	ng		99
89) Benzo(k)fluoranthene	15.127	252	888283	55.591	ng		100
90) Benzo(a)pyrene	15.468	252	876971	57.523	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	578410	35.434	ng		98
92) Benzo(g,h,i)perylene	17.474	276	490321	30.072	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139977.D
Acq On : 23 Oct 2024 21:20
Operator : RC/JU
Sample : P4397-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMS

Quant Time: Oct 24 01:12:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

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TARGETS						
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111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2300		110	220	ug/Kg
95-48-7	2-Methylphenol	2200		110	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2100		120	220	ug/Kg
98-86-2	Acetophenone	2200		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2100		100	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		52.9	100	ug/Kg
67-72-1	Hexachloroethane	2200		110	220	ug/Kg
98-95-3	Nitrobenzene	2100		120	220	ug/Kg
78-59-1	Isophorone	2200		110	220	ug/Kg
88-75-5	2-Nitrophenol	2700		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2600		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		99.1	220	ug/Kg
91-20-3	Naphthalene	2200		110	220	ug/Kg
106-47-8	4-Chloroaniline	590		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2200		110	220	ug/Kg
105-60-2	Caprolactam	2100		110	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		100	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400		200	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2400		93.7	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		97.1	220	ug/Kg
92-52-4	1,1-Biphenyl	2300		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2200		110	220	ug/Kg
88-74-4	2-Nitroaniline	2400		120	220	ug/Kg
131-11-3	Dimethylphthalate	2300		110	220	ug/Kg

Raw Data: **BF139978.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139978.D	1	10/14/24 10:40	10/23/24 21:49	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2300		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2300		110	220	ug/Kg
99-09-2	3-Nitroaniline	1300		120	220	ug/Kg
83-32-9	Acenaphthene	2400		110	220	ug/Kg
51-28-5	2,4-Dinitrophenol	3000		320	430	ug/Kg
100-02-7	4-Nitrophenol	4200	E	150	430	ug/Kg
132-64-9	Dibenzofuran	2200		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2400		110	220	ug/Kg
84-66-2	Diethylphthalate	2200		110	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		110	220	ug/Kg
86-73-7	Fluorene	2100		110	220	ug/Kg
100-01-6	4-Nitroaniline	1900		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		150	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2500		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2500		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2300		110	220	ug/Kg
1912-24-9	Atrazine	2900		120	220	ug/Kg
87-86-5	Pentachlorophenol	4400	E	100	430	ug/Kg
85-01-8	Phenanthrene	2500		110	220	ug/Kg
120-12-7	Anthracene	2400		110	220	ug/Kg
86-74-8	Carbazole	2200		110	220	ug/Kg
84-74-2	Di-n-butylphthalate	2500		110	220	ug/Kg
206-44-0	Fluoranthene	2400		110	220	ug/Kg
129-00-0	Pyrene	1800		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2500		130	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		130	430	ug/Kg
56-55-3	Benzo(a)anthracene	2300		110	220	ug/Kg
218-01-9	Chrysene	2400		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3000		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	3000		140	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2700		110	220	ug/Kg

Raw Data: **BF139978.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOTMSD	SDG No.:	P4397
Lab Sample ID:	P4397-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	76
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
BF139978.D	1	10/14/24 10:40	10/23/24 21:49	PB164123

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2400		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		110	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		110	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		110	220	ug/Kg
123-91-1	1,4-Dioxane	2100		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		98.0	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	116		30 (18) - 130 (112)	77%	SPK: 150
13127-88-3	Phenol-d6	113		30 (15) - 130 (107)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.7		30 (18) - 130 (107)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.8		30 (20) - 130 (109)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	115		30 (10) - 130 (116)	77%	SPK: 150
1718-51-0	Terphenyl-d14	62.7		30 (10) - 130 (105)	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	145000	6.892			
1146-65-2	Naphthalene-d8	545000	8.175			
15067-26-2	Acenaphthene-d10	275000	9.928			
1517-22-2	Phenanthrene-d10	400000	11.416			
1719-03-5	Chrysene-d12	304000	14.057			
1520-96-3	Perylene-d12	306000	15.533			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139978.D
Acq On : 23 Oct 2024 21:49
Operator : RC/JU
Sample : P4397-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMSD

Quant Time: Oct 24 01:12:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	145043	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	544717	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	274724	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	399778	20.000	ng	0.00
76) Chrysene-d12	14.057	240	304493	20.000	ng	0.00
86) Perylene-d12	15.533	264	305520	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1074370	115.960	ng	0.02
7) Phenol-d6	6.516	99	1355344	112.948	ng	0.00
23) Nitrobenzene-d5	7.451	82	862260	87.733	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	295680	115.065	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1442846	86.799	ng	0.00
79) Terphenyl-d14	12.998	244	1171336	62.684	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	204291	47.292	ng	94
3) Pyridine	3.522	79	503947	47.065	ng	95
4) n-Nitrosodimethylamine	3.475	42	271640	47.218	ng	95
6) Aniline	6.551	93	362373	32.402	ng	98
8) 2-Chlorophenol	6.675	128	491736	51.916	ng	97
9) Benzaldehyde	6.440	77	128567	19.046	ng	96
10) Phenol	6.528	94	609766m	49.289	ng	
11) bis(2-Chloroethyl)ether	6.628	93	482062	50.415	ng	99
12) 1,3-Dichlorobenzene	6.834	146	532430	48.970	ng	98
13) 1,4-Dichlorobenzene	6.910	146	542367	49.930	ng	98
14) 1,2-Dichlorobenzene	7.063	146	515493	50.848	ng	98
15) Benzyl Alcohol	7.028	79	444990	50.554	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	792774	48.623	ng	97
17) 2-Methylphenol	7.140	107	403735	49.989	ng	99
18) Hexachloroethane	7.404	117	191365	49.403	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	352876	48.487	ng	95
20) 3+4-Methylphenols	7.287	107	493800	47.801	ng	94
22) Acetophenone	7.298	105	664685	49.819	ng	98
24) Nitrobenzene	7.469	77	529532	49.142	ng	99
25) Isophorone	7.710	82	951945	51.032	ng	99
26) 2-Nitrophenol	7.787	139	248802	61.204	ng	96
27) 2,4-Dimethylphenol	7.822	122	396741	58.530	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	568638	50.314	ng	99
29) 2,4-Dichlorophenol	8.028	162	392433	50.828	ng	97
30) 1,2,4-Trichlorobenzene	8.110	180	419640	49.120	ng	99
31) Naphthalene	8.192	128	1420023	50.547	ng	99
32) Benzoic acid	7.922	122	255301	43.183	ng	98
33) 4-Chloroaniline	8.239	127	129935	13.564	ng	98
34) Hexachlorobutadiene	8.310	225	274022	51.049	ng	99
35) Caprolactam	8.610	113	118722m	48.360	ng	
36) 4-Chloro-3-methylphenol	8.716	107	409463	47.895	ng	98
37) 2-Methylnaphthalene	8.886	142	876472	50.942	ng	100
38) 1-Methylnaphthalene	8.986	142	813674	48.202	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	409887	55.303	ng	99
41) Hexachlorocyclopentadiene	9.039	237	198824	77.097	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	291428	55.538	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139978.D
Acq On : 23 Oct 2024 21:49
Operator : RC/JU
Sample : P4397-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMSD

Quant Time: Oct 24 01:12:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

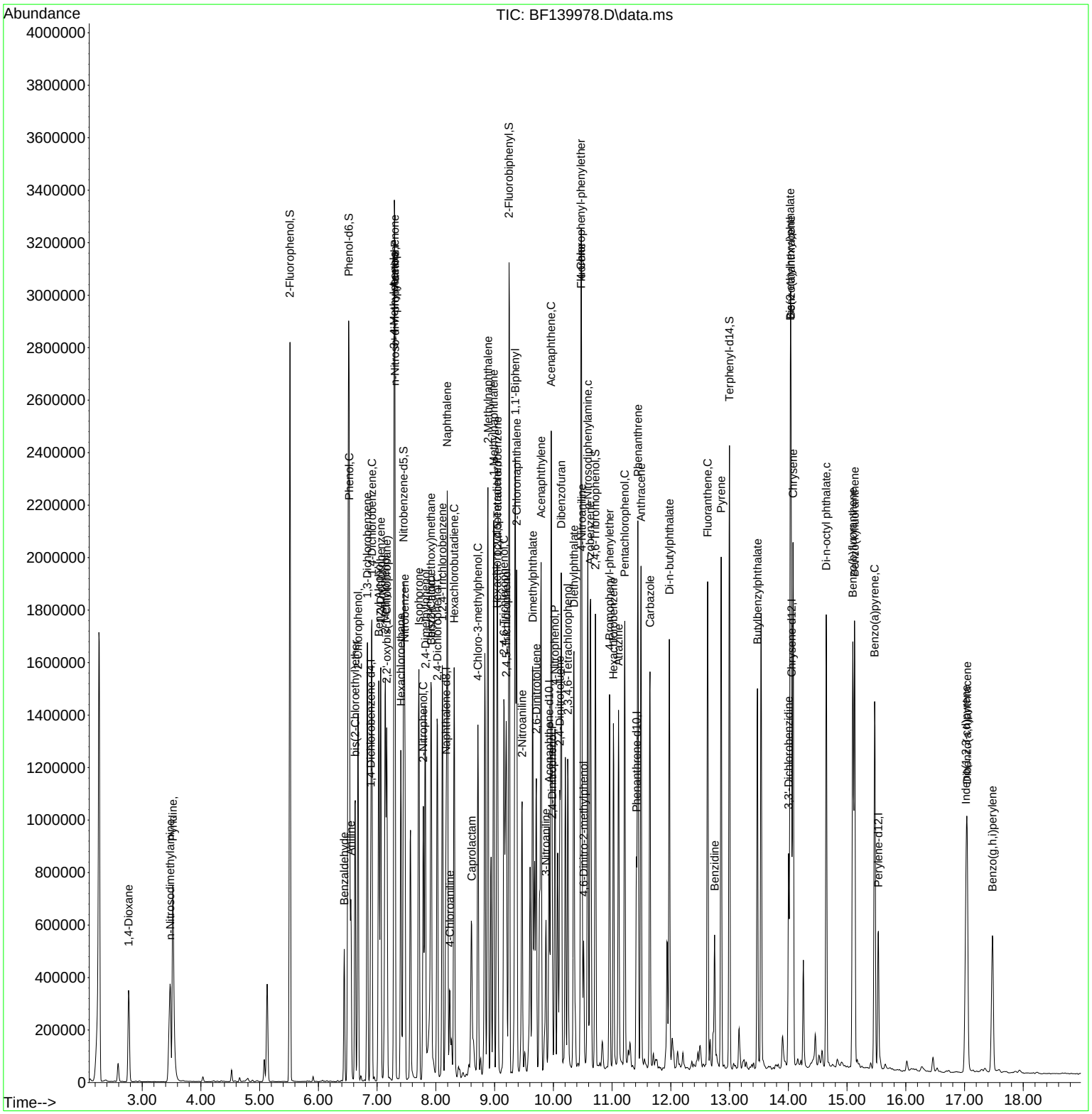
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	275272	50.846	ng		99
46) 1,1'-Biphenyl	9.351	154	1003788	52.486	ng		99
47) 2-Chloronaphthalene	9.375	162	779472	50.604	ng		100
48) 2-Nitroaniline	9.469	65	256306	54.406	ng		90
49) Acenaphthylene	9.792	152	1177711	52.886	ng		99
50) Dimethylphthalate	9.651	163	916630	53.567	ng		100
51) 2,6-Dinitrotoluene	9.710	165	192883	52.059	ng		96
52) Acenaphthene	9.963	154	778766	54.060	ng		99
53) 3-Nitroaniline	9.875	138	115993	30.358	ng		96
54) 2,4-Dinitrophenol	9.981	184	103426	68.232	ng	#	1
55) Dibenzofuran	10.133	168	1024790	49.582	ng		99
56) 4-Nitrophenol	10.028	139	281070	95.616	ng		98
57) 2,4-Dinitrotoluene	10.110	165	249070	54.665	ng		97
58) Fluorene	10.475	166	758915	48.209	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	205763	48.483	ng		96
60) Diethylphthalate	10.351	149	845427	50.319	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	388270	48.840	ng		99
62) 4-Nitroaniline	10.486	138	156078	43.251	ng		97
63) Azobenzene	10.628	77	1004048	56.368	ng		94
65) 4,6-Dinitro-2-methylph...	10.516	198	83406	51.148	ng		95
66) n-Nitrosodiphenylamine	10.586	169	690371	57.698	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	237973	57.782	ng		96
68) Hexachlorobenzene	11.022	284	246849	53.293	ng		99
69) Atrazine	11.110	200	217789	67.194	ng		99
70) Pentachlorophenol	11.216	266	281865	100.268	ng		99
71) Phenanthrene	11.439	178	1078344	57.104	ng		100
72) Anthracene	11.492	178	1021269	55.429	ng		100
73) Carbazole	11.645	167	855533	49.928	ng		99
74) Di-n-butylphthalate	11.975	149	1121037	56.626	ng		100
75) Fluoranthene	12.627	202	1032153	54.068	ng		99
77) Benzidine	12.745	184	267220	53.370	ng		99
78) Pyrene	12.857	202	1096357	41.134	ng		100
80) Butylbenzylphthalate	13.474	149	451808	56.542	ng		99
81) Benzo(a)anthracene	14.045	228	1061721	53.564	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	245824	42.535	ng		99
83) Chrysene	14.080	228	994000	54.694	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	620274	69.187	ng		99
85) Di-n-octyl phthalate	14.645	149	1132521	69.452	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	699702	35.599	ng		98
88) Benzo(b)fluoranthene	15.098	252	1128273	60.624	ng		99
89) Benzo(k)fluoranthene	15.127	252	879963	54.825	ng		99
90) Benzo(a)pyrene	15.468	252	886606	57.896	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	586803	35.788	ng		99
92) Benzo(g,h,i)perylene	17.474	276	500438	30.555	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139978.D
Acq On : 23 Oct 2024 21:49
Operator : RC/JU
Sample : P4397-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-301-BOTMSD

Quant Time: Oct 24 01:12:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139892.D	Phenol	yogesh	10/22/2024 4:37:38 AM	mohammad	10/23/2024 4:28:27 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102224	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139917.D	Phenol	Jagrut	10/23/2024 2:27:27 PM	mohammad	10/24/2024 1:59:10 AM	Peak Integrated by Software
SSTDCCC040	BF139927.D	Phenol	Jagrut	10/23/2024 2:27:40 PM	mohammad	10/24/2024 1:59:10 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139952.D	Phenol	yogesh	10/24/2024 1:42:16 AM	mohammad	10/24/2024 1:59:24 AM	Peak Integrated by Software
PB164123BS	BF139959.D	Caprolactam	yogesh	10/24/2024 1:42:21 AM	mohammad	10/24/2024 1:59:24 AM	Peak Integrated by Software
PB164123BS	BF139959.D	Phenol	yogesh	10/24/2024 1:42:21 AM	mohammad	10/24/2024 1:59:24 AM	Peak Integrated by Software
PB164154BS	BF139960.D	Caprolactam	yogesh	10/24/2024 1:42:23 AM	Jagrut	10/24/2024 10:34:05 AM	Peak Integrated by Software
PB164154BS	BF139960.D	Phenol	yogesh	10/24/2024 1:42:23 AM	Jagrut	10/24/2024 10:34:05 AM	Peak Integrated by Software
PB164154BSD	BF139961.D	Caprolactam	yogesh	10/24/2024 1:42:24 AM	Jagrut	10/24/2024 10:34:08 AM	Peak Integrated by Software
PB164154BSD	BF139961.D	Phenol	yogesh	10/24/2024 1:42:24 AM	Jagrut	10/24/2024 10:34:08 AM	Peak Integrated by Software
SSTDCCC040	BF139965.D	Phenol	yogesh	10/24/2024 1:42:27 AM	mohammad	10/24/2024 1:59:24 AM	Peak Integrated by Software
P4397-02MS	BF139977.D	Caprolactam	Jagrut	10/24/2024 10:34:17 AM			Peak Integrated by Software
P4397-02MS	BF139977.D	Phenol	Jagrut	10/24/2024 10:34:17 AM			Peak Integrated by Software
P4397-02MSD	BF139978.D	Caprolactam	Jagrut	10/24/2024 10:34:19 AM			Peak Integrated by Software
P4397-02MSD	BF139978.D	Phenol	Jagrut	10/24/2024 10:34:19 AM			Peak Integrated by Software
P4397-01	BF139979.D	Benzo(a)anthracene	Jagrut	10/24/2024 10:34:23 AM			Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4397-01	BF139979.D	Benzo(b)fluoranthene	Jagrut	10/24/2024 10:34:23 AM			Peak Integrated by Software
P4397-01	BF139979.D	Benzo(k)fluoranthene	Jagrut	10/24/2024 10:34:23 AM			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 # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM				
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM				
SubDirectory	BF102124	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139891.D	21 Oct 2024 09:28	RC/JU	Ok
2	SSTDCCC040	BF139892.D	21 Oct 2024 09:57	RC/JU	Ok,M
3	PB164123BL	BF139893.D	21 Oct 2024 10:25	RC/JU	Ok
4	P4430-01	BF139894.D	21 Oct 2024 10:58	RC/JU	Ok
5	P4425-07	BF139895.D	21 Oct 2024 11:27	RC/JU	Ok
6	P4425-09	BF139896.D	21 Oct 2024 11:55	RC/JU	Ok
7	P4426-03	BF139897.D	21 Oct 2024 12:24	RC/JU	Ok
8	P4426-07	BF139898.D	21 Oct 2024 12:52	RC/JU	Ok
9	P4426-17	BF139899.D	21 Oct 2024 13:20	RC/JU	Ok
10	P4426-11	BF139900.D	21 Oct 2024 13:49	RC/JU	Ok
11	P4396-01RE	BF139901.D	21 Oct 2024 14:18	RC/JU	Confirms
12	P4385-06MS	BF139902.D	21 Oct 2024 14:47	RC/JU	Ok,M
13	P4385-06MSD	BF139903.D	21 Oct 2024 15:15	RC/JU	Ok,M
14	P4403-01RE	BF139904.D	21 Oct 2024 15:44	RC/JU	Confirms
15	P4410-01RE	BF139905.D	21 Oct 2024 16:12	RC/JU	Confirms
16	P4410-01MS	BF139906.D	21 Oct 2024 16:42	RC/JU	Ok,M
17	P4410-01MSD	BF139907.D	21 Oct 2024 17:11	RC/JU	Ok,M
18	P4395-01RE	BF139908.D	21 Oct 2024 17:39	RC/JU	Confirms
19	P4400-01RE	BF139909.D	21 Oct 2024 18:08	RC/JU	Confirms
20	P4401-01RE	BF139910.D	21 Oct 2024 18:37	RC/JU	Confirms
21	P4406-01RE	BF139911.D	21 Oct 2024 19:06	RC/JU	Confirms

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM				
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM				
SubDirectory	BF102124	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4419-01	BF139912.D	21 Oct 2024 19:34	RC/JU	Ok,M
23	P4419-01MS	BF139913.D	21 Oct 2024 20:03	RC/JU	Ok,M
24	P4419-01MSD	BF139914.D	21 Oct 2024 20:32	RC/JU	Ok,M
25	P4455-01	BF139915.D	21 Oct 2024 21:01	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM				
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM				
SubDirectory	BF102224	HP Acquire Method	BNA_F			HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139916.D	22 Oct 2024 09:11	RC/JU	Ok
2	SSTDCCC040	BF139917.D	22 Oct 2024 09:39	RC/JU	Ok,M
3	PB164152BL	BF139918.D	22 Oct 2024 10:07	RC/JU	Ok
4	PB164152BS	BF139919.D	22 Oct 2024 10:36	RC/JU	Ok,M
5	PB164071BL	BF139920.D	22 Oct 2024 11:05	RC/JU	Ok
6	PB164071BS	BF139921.D	22 Oct 2024 11:34	RC/JU	Ok,M
7	PB164176BL	BF139922.D	22 Oct 2024 12:03	RC/JU	Ok
8	PB164176BS	BF139923.D	22 Oct 2024 12:32	RC/JU	Ok,M
9	PB164246BL	BF139924.D	22 Oct 2024 13:01	RC/JU	Ok
10	PB164246BS	BF139925.D	22 Oct 2024 13:31	RC/JU	Ok,M
11	DFTPP	BF139926.D	22 Oct 2024 14:00	RC/JU	Ok
12	SSTDCCC040	BF139927.D	22 Oct 2024 14:28	RC/JU	Ok,M
13	PB164154BL	BF139928.D	22 Oct 2024 14:58	RC/JU	Ok
14	P4452-01	BF139929.D	22 Oct 2024 15:32	RC/JU	Ok
15	P4419-04	BF139930.D	22 Oct 2024 16:01	RC/JU	Ok
16	P4419-04MS	BF139931.D	22 Oct 2024 16:30	RC/JU	Ok,M
17	P4419-04MSD	BF139932.D	22 Oct 2024 16:59	RC/JU	Ok,M
18	P4458-02	BF139933.D	22 Oct 2024 17:29	RC/JU	Ok
19	P4443-05	BF139934.D	22 Oct 2024 17:58	RC/JU	Ok
20	P4443-10	BF139935.D	22 Oct 2024 18:27	RC/JU	Ok
21	P4385-08	BF139936.D	22 Oct 2024 18:56	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM				
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM				
SubDirectory	BF102224	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4385-04	BF139937.D	22 Oct 2024 19:25	RC/JU	Ok
23	P4385-06	BF139938.D	22 Oct 2024 19:54	RC/JU	Ok
24	P4403-01MSD	BF139939.D	22 Oct 2024 20:22	RC/JU	Ok,M
25	P4403-01MS	BF139940.D	22 Oct 2024 20:51	RC/JU	Ok,M
26	P4385-02	BF139941.D	22 Oct 2024 21:20	RC/JU	Ok
27	P4456-01	BF139942.D	22 Oct 2024 21:49	RC/JU	Ok
28	P4431-01MS	BF139943.D	22 Oct 2024 22:17	RC/JU	Ok,M
29	P4431-01MSD	BF139944.D	22 Oct 2024 22:46	RC/JU	Ok,M
30	P4385-16	BF139945.D	22 Oct 2024 23:14	RC/JU	Ok
31	P4385-18	BF139946.D	22 Oct 2024 23:43	RC/JU	Ok
32	P4385-12	BF139947.D	23 Oct 2024 00:11	RC/JU	Ok
33	P4443-01	BF139948.D	23 Oct 2024 00:40	RC/JU	Ok,M
34	P4385-10	BF139949.D	23 Oct 2024 01:08	RC/JU	Ok
35	P4443-06	BF139950.D	23 Oct 2024 01:36	RC/JU	Dilution

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM				
Supervise By	mohammad	Supervise On	10/24/2024 1:59:24 AM				
SubDirectory	BF102324	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139951.D	23 Oct 2024 08:52	RC/JU	Ok
2	SSTDCCC040	BF139952.D	23 Oct 2024 09:20	RC/JU	Ok,M
3	PB164020BL	BF139953.D	23 Oct 2024 09:48	RC/JU	Ok
4	PB164020BS	BF139954.D	23 Oct 2024 10:17	RC/JU	Ok,M
5	PB164237BL	BF139955.D	23 Oct 2024 10:45	RC/JU	Ok
6	PB164237BS	BF139956.D	23 Oct 2024 11:14	RC/JU	Ok,M
7	PB164208BL	BF139957.D	23 Oct 2024 11:42	RC/JU	Ok
8	PB164216BS	BF139958.D	23 Oct 2024 12:10	RC/JU	Ok,M
9	PB164123BS	BF139959.D	23 Oct 2024 12:39	RC/JU	Ok,M
10	PB164154BS	BF139960.D	23 Oct 2024 13:07	RC/JU	Ok,M
11	PB164154BSD	BF139961.D	23 Oct 2024 13:36	RC/JU	Ok,M
12	PB164286BL	BF139962.D	23 Oct 2024 14:04	RC/JU	Ok
13	PB164286BS	BF139963.D	23 Oct 2024 14:33	RC/JU	Ok,M
14	DFTPP	BF139964.D	23 Oct 2024 15:01	RC/JU	Ok
15	SSTDCCC040	BF139965.D	23 Oct 2024 15:30	RC/JU	Ok,M
16	PB164195TB	BF139966.D	23 Oct 2024 15:58	RC/JU	Ok
17	P4397-06	BF139967.D	23 Oct 2024 16:32	RC/JU	Ok
18	P4443-06DL	BF139968.D	23 Oct 2024 17:01	RC/JU	Ok,M
19	P4458-01	BF139969.D	23 Oct 2024 17:30	RC/JU	Ok,M
20	P4397-06MS	BF139970.D	23 Oct 2024 17:59	RC/JU	Ok,NS
21	P4397-06MSD	BF139971.D	23 Oct 2024 18:28	RC/JU	Ok,NS

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:24 AM		
SubDirectory	BF102324	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4472-04	BF139972.D	23 Oct 2024 18:56	RC/JU	Ok
23	P4468-06	BF139973.D	23 Oct 2024 19:25	RC/JU	Ok
24	P4468-04	BF139974.D	23 Oct 2024 19:54	RC/JU	Ok
25	P4397-04	BF139975.D	23 Oct 2024 20:22	RC/JU	Ok
26	P4397-02	BF139976.D	23 Oct 2024 20:51	RC/JU	Ok
27	P4397-02MS	BF139977.D	23 Oct 2024 21:20	RC/JU	Ok,NS
28	P4397-02MSD	BF139978.D	23 Oct 2024 21:49	RC/JU	Ok,NS
29	P4397-01	BF139979.D	23 Oct 2024 22:17	RC/JU	Ok,NS
30	P4468-05	BF139980.D	23 Oct 2024 22:46	RC/JU	Ok
31	P4472-01	BF139981.D	23 Oct 2024 23:14	RC/JU	Ok
32	P4385-20	BF139982.D	23 Oct 2024 23:43	RC/JU	Ok,NS
33	P4385-14	BF139983.D	24 Oct 2024 00:11	RC/JU	Ok
34	P4474-01	BF139984.D	24 Oct 2024 00:40	RC/JU	Ok
35	P4473-01	BF139985.D	24 Oct 2024 01:08	RC/JU	Ok
36	P4489-01	BF139986.D	24 Oct 2024 01:37	RC/JU	Dilution
37	P4486-01	BF139987.D	24 Oct 2024 02:06	RC/JU	Ok,NS
38	P4468-03	BF139988.D	24 Oct 2024 02:34	RC/JU	Ok,NS

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM		
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM		
SubDirectory	BF102124	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139891.D	21 Oct 2024 09:28		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139892.D	21 Oct 2024 09:57		RC/JU	Ok,M
3	PB164123BL	PB164123BL	BF139893.D	21 Oct 2024 10:25		RC/JU	Ok
4	P4430-01	VNJ-209	BF139894.D	21 Oct 2024 10:58		RC/JU	Ok
5	P4425-07	TP-4	BF139895.D	21 Oct 2024 11:27		RC/JU	Ok
6	P4425-09	TP-5	BF139896.D	21 Oct 2024 11:55		RC/JU	Ok
7	P4426-03	PAD-2	BF139897.D	21 Oct 2024 12:24		RC/JU	Ok
8	P4426-07	PAD-4	BF139898.D	21 Oct 2024 12:52		RC/JU	Ok
9	P4426-17	PAD-9	BF139899.D	21 Oct 2024 13:20		RC/JU	Ok
10	P4426-11	PAD-6	BF139900.D	21 Oct 2024 13:49		RC/JU	Ok
11	P4396-01RE	WASTE-WATER-FRAC	BF139901.D	21 Oct 2024 14:18	Fax is already given	RC/JU	Confirms
12	P4385-06MS	SP-3MS	BF139902.D	21 Oct 2024 14:47		RC/JU	Ok,M
13	P4385-06MSD	SP-3MSD	BF139903.D	21 Oct 2024 15:15		RC/JU	Ok,M
14	P4403-01RE	Hawthorne TP SoilRE	BF139904.D	21 Oct 2024 15:44	Fax is already given	RC/JU	Confirms
15	P4410-01RE	TR-04-101524RE	BF139905.D	21 Oct 2024 16:12	Fax is already given	RC/JU	Confirms
16	P4410-01MS	TR-04-101524MS	BF139906.D	21 Oct 2024 16:42		RC/JU	Ok,M
17	P4410-01MSD	TR-04-101524MSD	BF139907.D	21 Oct 2024 17:11		RC/JU	Ok,M
18	P4395-01RE	F05308-SOLIDRE	BF139908.D	21 Oct 2024 17:39	Fax is already given	RC/JU	Confirms

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102124

Review By	yogesh	Review On	10/22/2024 4:38:40 AM		
Supervise By	mohammad	Supervise On	10/23/2024 4:28:27 AM		
SubDirectory	BF102124	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4400-01RE	NB-08-101424RE	BF139909.D	21 Oct 2024 18:08	Fax is already given	RC/JU	Confirms
20	P4401-01RE	SU-03-101424RE	BF139910.D	21 Oct 2024 18:37	Fax is already given	RC/JU	Confirms
21	P4406-01RE	OK-02-101524RE	BF139911.D	21 Oct 2024 19:06	Fax is already given	RC/JU	Confirms
22	P4419-01	IB-1	BF139912.D	21 Oct 2024 19:34		RC/JU	Ok,M
23	P4419-01MS	IB-1MS	BF139913.D	21 Oct 2024 20:03		RC/JU	Ok,M
24	P4419-01MSD	IB-1MSD	BF139914.D	21 Oct 2024 20:32		RC/JU	Ok,M
25	P4455-01	SU-4-101824	BF139915.D	21 Oct 2024 21:01		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM				
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM				
SubDirectory	BF102224	HP Acquire Method	BNA_F	HP Processing Method	bf101824		

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139916.D	22 Oct 2024 09:11		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139917.D	22 Oct 2024 09:39		RC/JU	Ok,M
3	PB164152BL	PB164152BL	BF139918.D	22 Oct 2024 10:07		RC/JU	Ok
4	PB164152BS	PB164152BS	BF139919.D	22 Oct 2024 10:36		RC/JU	Ok,M
5	PB164071BL	PB164071BL	BF139920.D	22 Oct 2024 11:05		RC/JU	Ok
6	PB164071BS	PB164071BS	BF139921.D	22 Oct 2024 11:34		RC/JU	Ok,M
7	PB164176BL	PB164176BL	BF139922.D	22 Oct 2024 12:03		RC/JU	Ok
8	PB164176BS	PB164176BS	BF139923.D	22 Oct 2024 12:32		RC/JU	Ok,M
9	PB164246BL	PB164246BL	BF139924.D	22 Oct 2024 13:01		RC/JU	Ok
10	PB164246BS	PB164246BS	BF139925.D	22 Oct 2024 13:31		RC/JU	Ok,M
11	DFTPP	DFTPP	BF139926.D	22 Oct 2024 14:00		RC/JU	Ok
12	SSTDCCC040	SSTDCCC040	BF139927.D	22 Oct 2024 14:28		RC/JU	Ok,M
13	PB164154BL	PB164154BL	BF139928.D	22 Oct 2024 14:58		RC/JU	Ok
14	P4452-01	ETGI-285	BF139929.D	22 Oct 2024 15:32		RC/JU	Ok
15	P4419-04	IB-1	BF139930.D	22 Oct 2024 16:01		RC/JU	Ok
16	P4419-04MS	IB-1MS	BF139931.D	22 Oct 2024 16:30		RC/JU	Ok,M
17	P4419-04MSD	IB-1MSD	BF139932.D	22 Oct 2024 16:59		RC/JU	Ok,M
18	P4458-02	280517	BF139933.D	22 Oct 2024 17:29		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102224

Review By	Jagrut	Review On	10/23/2024 2:28:42 PM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:10 AM		
SubDirectory	BF102224	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4443-05	OG-315-HR-502-COMP	BF139934.D	22 Oct 2024 17:58		RC/JU	Ok
20	P4443-10	OG-315-HR-502-COMP	BF139935.D	22 Oct 2024 18:27		RC/JU	Ok
21	P4385-08	SP-4	BF139936.D	22 Oct 2024 18:56		RC/JU	Ok
22	P4385-04	SP-2	BF139937.D	22 Oct 2024 19:25		RC/JU	Ok
23	P4385-06	SP-3	BF139938.D	22 Oct 2024 19:54		RC/JU	Ok
24	P4403-01MSD	Hawthorne TP SoilMSD	BF139939.D	22 Oct 2024 20:22		RC/JU	Ok,M
25	P4403-01MS	Hawthorne TP SoilMS	BF139940.D	22 Oct 2024 20:51		RC/JU	Ok,M
26	P4385-02	SP-1	BF139941.D	22 Oct 2024 21:20		RC/JU	Ok
27	P4456-01	PAD-10182024	BF139942.D	22 Oct 2024 21:49	Internal Standrad Fail	RC/JU	Ok
28	P4431-01MS	72-11934MS	BF139943.D	22 Oct 2024 22:17		RC/JU	Ok,M
29	P4431-01MSD	72-11934MSD	BF139944.D	22 Oct 2024 22:46		RC/JU	Ok,M
30	P4385-16	SP-8	BF139945.D	22 Oct 2024 23:14		RC/JU	Ok
31	P4385-18	SP-9	BF139946.D	22 Oct 2024 23:43		RC/JU	Ok
32	P4385-12	SP-6	BF139947.D	23 Oct 2024 00:11		RC/JU	Ok
33	P4443-01	OG-315-HR-502-COMP	BF139948.D	23 Oct 2024 00:40		RC/JU	Ok,M
34	P4385-10	SP-5	BF139949.D	23 Oct 2024 01:08		RC/JU	Ok
35	P4443-06	OG-315-HR-502-COMP	BF139950.D	23 Oct 2024 01:36	Need further 5X Dilution	RC/JU	Dilution

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:24 AM		
SubDirectory	BF102324	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139951.D	23 Oct 2024 08:52		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139952.D	23 Oct 2024 09:20		RC/JU	Ok,M
3	PB164020BL	PB164020BL	BF139953.D	23 Oct 2024 09:48		RC/JU	Ok
4	PB164020BS	PB164020BS	BF139954.D	23 Oct 2024 10:17		RC/JU	Ok,M
5	PB164237BL	PB164237BL	BF139955.D	23 Oct 2024 10:45		RC/JU	Ok
6	PB164237BS	PB164237BS	BF139956.D	23 Oct 2024 11:14		RC/JU	Ok,M
7	PB164208BL	PB164208BL	BF139957.D	23 Oct 2024 11:42		RC/JU	Ok
8	PB164216BS	PB164216BS	BF139958.D	23 Oct 2024 12:10		RC/JU	Ok,M
9	PB164123BS	PB164123BS	BF139959.D	23 Oct 2024 12:39		RC/JU	Ok,M
10	PB164154BS	PB164154BS	BF139960.D	23 Oct 2024 13:07		RC/JU	Ok,M
11	PB164154BSD	PB164154BSD	BF139961.D	23 Oct 2024 13:36		RC/JU	Ok,M
12	PB164286BL	PB164286BL	BF139962.D	23 Oct 2024 14:04		RC/JU	Ok
13	PB164286BS	PB164286BS	BF139963.D	23 Oct 2024 14:33		RC/JU	Ok,M
14	DFTPP	DFTPP	BF139964.D	23 Oct 2024 15:01		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF139965.D	23 Oct 2024 15:30		RC/JU	Ok,M
16	PB164195TB	PB164195TB	BF139966.D	23 Oct 2024 15:58		RC/JU	Ok
17	P4397-06	WB-301-BOT	BF139967.D	23 Oct 2024 16:32		RC/JU	Ok
18	P4443-06DL	OG-315-HR-502-COMP	BF139968.D	23 Oct 2024 17:01		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:24 AM		
SubDirectory	BF102324	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4458-01	280517	BF139969.D	23 Oct 2024 17:30		RC/JU	Ok,M
20	P4397-06MS	WB-301-BOTMS	BF139970.D	23 Oct 2024 17:59		RC/JU	Ok,NS
21	P4397-06MSD	WB-301-BOTMSD	BF139971.D	23 Oct 2024 18:28		RC/JU	Ok,NS
22	P4472-04	BP-F-28	BF139972.D	23 Oct 2024 18:56		RC/JU	Ok
23	P4468-06	ETGI-345	BF139973.D	23 Oct 2024 19:25		RC/JU	Ok
24	P4468-04	ETGI-329	BF139974.D	23 Oct 2024 19:54		RC/JU	Ok
25	P4397-04	WB-301-SW	BF139975.D	23 Oct 2024 20:22		RC/JU	Ok
26	P4397-02	WB-301-BOT	BF139976.D	23 Oct 2024 20:51		RC/JU	Ok
27	P4397-02MS	WB-301-BOTMS	BF139977.D	23 Oct 2024 21:20		RC/JU	Ok,NS
28	P4397-02MSD	WB-301-BOTMSD	BF139978.D	23 Oct 2024 21:49		RC/JU	Ok,NS
29	P4397-01	WB-301-TOP	BF139979.D	23 Oct 2024 22:17		RC/JU	Ok,NS
30	P4468-05	ETGI-345	BF139980.D	23 Oct 2024 22:46		RC/JU	Ok
31	P4472-01	BP-F-28	BF139981.D	23 Oct 2024 23:14		RC/JU	Ok
32	P4385-20	SP-10	BF139982.D	23 Oct 2024 23:43		RC/JU	Ok,NS
33	P4385-14	SP-7	BF139983.D	24 Oct 2024 00:11		RC/JU	Ok
34	P4474-01	TS-2	BF139984.D	24 Oct 2024 00:40		RC/JU	Ok
35	P4473-01	TS-1	BF139985.D	24 Oct 2024 01:08		RC/JU	Ok
36	P4489-01	RT-2675	BF139986.D	24 Oct 2024 01:37	Internal Standard Failed, Need 5X Dilution	RC/JU	Dilution
37	P4486-01	EO-03-102224	BF139987.D	24 Oct 2024 02:06		RC/JU	Ok,NS

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:24 AM		
SubDirectory	BF102324	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4468-03	ETGI-329	BF139988.D	24 Oct 2024 02:34		RC/JU	Ok,NS

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 10/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 10/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132917

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4391-01	Q119-1A	1	1.15	8.63	9.78	8.17	81.3	
P4391-04	Q119-2A	2	1.15	8.62	9.77	7.58	74.6	
P4391-07	Q119-3A	3	1.13	8.80	9.93	8.36	82.2	
P4391-10	Q119-4A	4	1.15	8.75	9.9	7.98	78.1	
P4391-13	Q119-5A	5	1.16	8.73	9.89	7.3	70.3	
P4391-16	Q119-6A	6	1.18	8.44	9.62	8.31	84.5	
P4391-17	Q119-6B	7	1.15	8.81	9.96	8.06	78.4	
P4391-19	Q119-7B	8	1.17	8.60	9.77	8.61	86.5	
P4391-21	Q119-8B	9	1.16	8.65	9.81	8.26	82.1	
P4391-23	Q119-9A	10	1.16	8.71	9.87	8.81	87.8	
P4391-24	Q119-9B	11	1.19	8.50	9.69	8.48	85.8	
P4391-26	Q119-10A	12	1.17	8.60	9.77	9.00	91.0	
P4391-27	Q119-10B	13	1.15	8.83	9.98	7.53	72.3	
P4391-29	Q119-11A	14	1.17	8.57	9.74	9.36	95.6	
P4391-30	Q119-11B	15	1.18	8.51	9.69	9.16	93.8	
P4391-32	Q119-12A	16	1.15	8.44	9.59	9.28	96.3	
P4391-33	Q119-12B	17	1.15	8.76	9.91	9.13	91.1	
P4392-01	Q119-12C	18	1.18	8.58	9.76	8.71	87.8	
P4392-02	Q119-13B	19	1.18	8.43	9.61	9.11	94.1	
P4392-03	Q119-13C	20	1.11	8.78	9.89	8.92	89.0	
P4392-04	Q119-14B	21	1.13	8.75	9.88	8.98	89.7	
P4392-05	Q119-14C	22	1.15	8.82	9.97	8.66	85.1	
P4392-06	Q119-15A	23	1.15	8.82	9.97	9.13	90.5	
P4392-07	Q119-15B	24	1.18	8.53	9.71	8.34	83.9	
P4392-08	Q119-15C	25	1.15	8.68	9.83	8.41	83.6	
P4392-09	Q119-16A	26	1.13	8.80	9.93	9.12	90.8	
P4392-10	Q119-16B	27	1.15	8.50	9.65	8.89	91.1	
P4392-11	Q119-16C	28	1.18	8.40	9.58	8.75	90.1	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 10/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 10/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132917

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4392-12	Q119-17A	29	1.17	8.60	9.77	9.2	93.4	
P4392-13	Q119-17B	30	1.15	8.53	9.68	8.86	90.4	
P4392-14	Q119-17C	31	1.17	8.46	9.63	8.77	89.8	
P4392-15	Q119-18A	32	1.18	8.66	9.84	9.25	93.2	
P4392-16	Q119-18B	33	1.15	8.38	9.53	8.74	90.6	
P4392-17	Q119-18C	34	1.13	8.73	9.86	9.00	90.1	
P4392-18	Q119-19A	35	1.18	8.50	9.68	8.89	90.7	
P4392-19	Q119-19B	36	1.18	8.63	9.81	9.06	91.3	
P4392-20	Q119-20A	37	1.15	8.80	9.95	9.28	92.4	
P4392-21	Q119-20B	38	1.16	8.40	9.56	8.99	93.2	
P4392-22	Q119-21A	39	1.18	8.71	9.89	9.39	94.3	
P4392-23	Q119-21B	40	1.18	8.42	9.6	9.04	93.3	
P4392-24	Q119-22A	41	1.17	8.55	9.72	9.39	96.1	
P4392-25	Q119-22B	42	1.15	8.82	9.97	9.24	91.7	
P4392-26	Q119-23A	43	1.15	8.50	9.65	9.03	92.7	
P4392-27	Q119-23B	44	1.19	8.67	9.86	9.25	93.0	
P4392-28	Q119-24A	45	1.18	8.50	9.68	8.78	89.4	
P4392-29	Q119-24B	46	1.17	8.75	9.92	8.81	87.3	
P4392-30	Q119-DUP1	47	1.18	8.50	9.68	8.51	86.2	
P4392-31	Q119-DUP2	48	1.18	8.54	9.72	9.35	95.7	
P4392-32	Q119-DUP3	49	1.16	8.80	9.96	9.41	93.7	
P4392-33	Q119-DUP4	50	1.17	8.61	9.78	8.46	84.7	
P4392-34	Q119-DUP5	51	1.18	8.51	9.69	8.92	91.0	
P4392-35	Q119-DUP6	52	1.19	8.52	9.71	7.38	72.7	
P4392-36	Q119-DUP7	53	1.16	8.40	9.56	8.71	89.9	
P4397-01	WB-301-TOP	54	1.15	8.80	9.95	6.72	63.3	
P4397-02	WB-301-BOT	55	1.16	8.63	9.79	7.72	76.0	
P4399-01	1009-A	60	1.00	1.00	2.00	2.00	100.0	debris

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 10/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 10/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB132917

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4400-01	NB-08-101424	61	1.19	8.78	9.97	9.25	91.8	
P4400-02	NB-08-101424-E2	62	1.17	8.57	9.74	9.06	92.1	
P4401-01	SU-03-101424	56	1.15	8.46	9.61	9.35	96.9	
P4401-02	SU-03-101424E2	57	1.18	8.70	9.88	9.52	95.9	
P4403-01	Hawthorne TP Soil	58	1.18	8.58	9.76	8.99	91.0	
P4403-03	Hawthorne TP Soil	59	1.15	8.84	9.99	9.36	92.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 132917

WorkList Name : %1-101424 **WorkList ID :** 184382 **Department :** Wet-Chemistry **Date :** 10-14-2024 07:40:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4391-01	Q119-1A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-04	Q119-2A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-07	Q119-3A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-10	Q119-4A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-13	Q119-5A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-16	Q119-6A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-17	Q119-6B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-19	Q119-7B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-21	Q119-8B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-23	Q119-9A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-24	Q119-9B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-26	Q119-10A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-27	Q119-10B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-29	Q119-11A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-30	Q119-11B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-32	Q119-12A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-33	Q119-12B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-01	Q119-12C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-02	Q119-13B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-03	Q119-13C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-04	Q119-14B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO

Date/Time 10-14-24 1500

Raw Sample Received by: FD (WDC)

Raw Sample Relinquished by:

Date/Time 10-14-24 1700

Raw Sample Received by:

Raw Sample Relinquished by: FD (WDC)

WB132917

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-101424 **WorkList ID :** 184382 **Department :** Wet-Chemistry **Date :** 10-14-2024 07:40:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4392-05	Q119-14C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-06	Q119-15A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-07	Q119-15B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-08	Q119-15C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-09	Q119-16A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-10	Q119-16B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-11	Q119-16C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-12	Q119-17A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-13	Q119-17B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-14	Q119-17C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-15	Q119-18A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-16	Q119-18B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-17	Q119-18C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-18	Q119-19A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-19	Q119-19B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-20	Q119-20A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-21	Q119-20B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-22	Q119-21A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-23	Q119-21B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-24	Q119-22A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-25	Q119-22B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO

Date/Time 10-14-24 15:00

Raw Sample Received by: JD WDC

Raw Sample Relinquished by: [signature]

Date/Time 10-14-24 17:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JD WDC

WORKLIST(Hardcopy Internal Chain)

VB 132917

WorkList Name : %1-101424 **WorkList ID :** 184382 **Department :** Wet-Chemistry **Date :** 10-14-2024 07:40:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4392-26	Q119-23A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-27	Q119-23B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-28	Q119-24A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-29	Q119-24B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-30	Q119-DUP1	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-31	Q119-DUP2	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-32	Q119-DUP3	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-33	Q119-DUP4	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-34	Q119-DUP5	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-35	Q119-DUP6	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-36	Q119-DUP7	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4397-01	WB-301-TOP	Solid	Percent Solids	Cool 4 deg C	PORT06	K32	10/10/2024	Chemtech -SO
P4397-02	WB-301-BOT	Solid	Percent Solids	Cool 4 deg C	PORT06	K32	10/10/2024	Chemtech -SO
P4399-01	1009-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/14/2024	Chemtech -SO
P4400-01	NB-08-101424	Solid	Percent Solids	Cool 4 deg C	PSEG05	K32	10/14/2024	Chemtech -SO
P4400-02	NB-08-101424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K32	10/14/2024	Chemtech -SO
P4401-01	SU-03-101424	Solid	Percent Solids	Cool 4 deg C	PSEG05	K33	10/14/2024	Chemtech -SO
P4401-02	SU-03-101424E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K33	10/14/2024	Chemtech -SO
P4403-01	Hawthorne TP Soil	Solid	Percent Solids	Cool 4 deg C	PSEG03	K11	10/14/2024	Chemtech -SO
P4403-03	Hawthorne TP Soil	Solid	Percent Solids	Cool 4 deg C	PSEG03	K11	10/14/2024	Chemtech -SO

Date/Time 10-14-24 15:00

Raw Sample Received by: SO (wet C)

Raw Sample Relinquished by: [signature]

Date/Time 10-14-24 17:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: SO wet C

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164123

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/14/2024
Matrix :	Solid			**Extraction Start Time :**	10:40
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/14/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:40
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6524
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	EP2538
Baked Na2SO4	N/A	EP2546
Sand	N/A	E2865
Methylene Chloride	N/A	E3817
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/14/24	RP (Ext. Lab)	AC/SVOC
13:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164123

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 10/14/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164123BL	SBLK123	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U6-1
PB164123BS	SLCS123	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
P4395-01	F05308-SOLID	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
P4397-01	WB-301-TOP	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
P4397-02	WB-301-BOT	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
P4397-02MS	WB-301-BOTMS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
P4397-02MS D	WB-301-BOTMSD	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U7-1

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

10/14/24

10:40
10/4/23

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4397S **WorkList ID :** 184414 **Department :** Extraction **Date :** 10-14-2024 10:30:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4395-01	F05308-SOLID	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K33	10/11/2024	8270E
P4397-01	WB-301-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K32	10/10/2024	8270E
P4397-02	WB-301-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K32	10/10/2024	8270E

Date/Time 10/14/24 10:25
Raw Sample Received by: RJ (Eat. (04)
Raw Sample Relinquished by: SM

Date/Time 10/14/24 10:50
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Eat (04)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164154

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/15/2024
Matrix :	Water			**Extraction Start Time :**	08:40
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/15/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:40
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,5,6,7	**Supervisor By :**	rajesh

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6524
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3817
Baked Na2SO4	N/A	EP2546
10N NaoH	N/A	EP2523
H2SO4 1:1	N/A	EP2524
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.

KD Bath ID:	Water bath -01,02	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/15/24	RP (Ext. Lab)	RC/SVOC
13:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164154

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 10/15/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164154BL	SBLK154	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB164154BS	SLCS154	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
PB164154BSD	SLCSD154	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			3
P4396-01	WASTE-WATER-FRAC-TANK	SVOC-TCL BNA -20	990	6	RUPESH	rajesh	1	I		4
P4397-04	WB-301-SW	SVOC-TCL BNA -20	960	6	RUPESH	rajesh	1	F		5

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

10/15/24

10/15/24 8:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4397SV **WorkList ID :** 184445 **Department :** Extraction **Date :** 10-15-2024 08:21:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4396-01	WASTE-WATER-FRAC-TANK	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K32	10/11/2024	8270E
P4397-04	WB-301-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K32	10/10/2024	8270E

Date/Time 10/15/24 8:35
Raw Sample Received by: RJ (Ice) Lobby
Raw Sample Relinquished by: JD (SM)

Date/Time 10/15/24 9:00
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RJ (Ice Mtn)

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4397
QUOTE NO.
COC Number 2042048

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Adam Avenue
CITY Audobon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's replacement of SB
PROJECT NO.: 950000818 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: DRAC@bamsystems.com
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St.
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha. PHONE: 908-788-3138

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

1 TCL VOC +10
2 TCL PAH
3 PCB
4 TAL Metals (+Hg), CA(N)
5 EPH
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2	3	4 (B)	5 (F)	6	7	8	9	COMMENTS
1.	WB-301-TOP	S	X		10/10	10:00	10	X	X	X	X	X	X				
2.	WB-301-BOT	S	X		10/10	12:15	10	X	X	X	X	X	X				
3.	WB-301-SW	GW	X		10/10	11:00	7	X	X	X	X	X					
4.	TB-10102024	W			10/10	LAB	2	X									
5.	Temp. Blank																
6.																	
7.																	
8.																	
9.																	
10.																	

Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Nita Maresca	3:05 PM 10/11/24	1. 1505 10-11-24
2.		2.
3.	1610 10/11/24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.5 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488