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

Order ID : P5093

Project ID : MC054.36 23-8-1 LM - Landing Lane New Brunswick

Client : R3M Engineering, Inc.

Lab Sample Number	Client Sample Number
P5093-01	LL-001
P5093-02	LL-001-FB-12-4-24
P5093-03	TB-12-4-24

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: 12/10/2024

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 #: **P5093**

	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:** **12/10/2024**

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LAB CHRONICLE

OrderID:	P5093	**OrderDate:**	12/4/2024 12:24:38 PM
Client:	R3M Engineering, Inc.	**Project:**	MC054.36 23-8-1 LM - Landing Lane New Brunswick
Contact:	Stacey L. Felts-Bock	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5093-01	**LL-001**	**Water**			**12/04/24**			**12/04/24**
			SVOC-TCL BNA -20	8270E		12/06/24	12/06/24	
P5093-02	**LL-001-FB-12-4-24**	**Water**			**12/04/24**			**12/04/24**
			SVOC-TCL BNA -20	8270E		12/06/24	12/06/24	

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Hit Summary Sheet
SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID : LL-001									
P5093-01	LL-001	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.600	AB	0	0	ug/L
P5093-01	LL-001	WATER	Benzophenone	*	2.900	J	0	0	ug/L
P5093-01	LL-001	WATER	Butane, 2-methoxy-2-methyl-	*	170.000	JB	0	0	ug/L
P5093-01	LL-001	WATER	Supraene	*	2.200	J	0	0	ug/L
			Total Tics :		**178.70**				
			Total Concentration:		**178.70**				
Client ID : LL-001-FB-12-4-24									
P5093-02	LL-001-FB-12-4-24	WATER	1-Propanol, 2-(2-hydroxypropoxy	*	2.200	J	0	0	ug/L
P5093-02	LL-001-FB-12-4-24	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.000	AB	0	0	ug/L
P5093-02	LL-001-FB-12-4-24	WATER	Butane, 2-methoxy-2-methyl-	*	170.000	JB	0	0	ug/L
			Total Tics :		**176.20**				
			Total Concentration:		**176.20**				

QC SUMMARY

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

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5093-01	LL-001	2-Fluorophenol	150	89.8	60		15 (10)	110 (139)
		Phenol-d6	150	60.9	41		15 (10)	110 (134)
		Nitrobenzene-d5	100	95.0	95		30 (49)	130 (133)
		2-Fluorobiphenyl	100	97.5	98		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	75.7	76		30 (48)	130 (125)
P5093-02	LL-001-FB-12-4-24	2-Fluorophenol	150	101	68		15 (10)	110 (139)
		Phenol-d6	150	65.0	43		15 (10)	110 (134)
		Nitrobenzene-d5	100	105	105		30 (49)	130 (133)
		2-Fluorobiphenyl	100	109	109		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	142	95		15 (44)	110 (137)
		Terphenyl-d14	100	103	103		30 (48)	130 (125)
PB165432BL	PB165432BL	2-Fluorophenol	150	150	100		15 (10)	110 (139)
		Phenol-d6	150	144	96		15 (10)	110 (134)
		Nitrobenzene-d5	100	97.8	98		30 (49)	130 (133)
		2-Fluorobiphenyl	100	100.0	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	146	97		15 (44)	110 (137)
		Terphenyl-d14	100	89.1	89		30 (48)	130 (125)
PB165432BS	PB165432BS	2-Fluorophenol	150	142	95		15 (10)	110 (139)
		Phenol-d6	150	140	93		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.7	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.9	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	146	97		15 (44)	110 (137)
		Terphenyl-d14	100	94.4	94		30 (48)	130 (125)
PB165432BSD	PB165432BSD	2-Fluorophenol	150	145	97		15 (10)	110 (139)
		Phenol-d6	150	142	94		15 (10)	110 (134)
		Nitrobenzene-d5	100	95.3	95		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.4	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	150	100		15 (44)	110 (137)
		Terphenyl-d14	100	96.1	96		30 (48)	130 (125)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8270E **DataFile:** BF140785.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165432BS	Benzaldehyde	50	13.9	ug/L	28				20 (10)	160 (162)	
	Phenol	50	49.8	ug/L	100				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	50.6	ug/L	101				70 (62)	130 (103)	
	2-Chlorophenol	50	49.8	ug/L	100				70 (70)	130 (117)	
	2-Methylphenol	50	49.4	ug/L	99				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	48.7	ug/L	97				70 (65)	130 (100)	
	Acetophenone	50	46.1	ug/L	92				70 (60)	130 (104)	
	3+4-Methylphenols	50	50.6	ug/L	101				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	48.8	ug/L	98				70 (57)	130 (107)	
	Hexachloroethane	50	46.3	ug/L	93				20 (76)	160 (118)	
	Nitrobenzene	50	43.9	ug/L	88				70 (58)	130 (106)	
	Isophorone	50	47.9	ug/L	96				70 (61)	130 (102)	
	2-Nitrophenol	50	48.4	ug/L	97				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	60.8	ug/L	122				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	47.0	ug/L	94				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	48.9	ug/L	98				70 (66)	130 (115)	
	Naphthalene	50	46.8	ug/L	94				70 (64)	130 (107)	
	4-Chloroaniline	50	27.1	ug/L	54		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	44.5	ug/L	89				70 (69)	130 (101)	
	Caprolactam	50	49.1	ug/L	98				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	47.8	ug/L	96				70 (65)	130 (114)	
	2-Methylnaphthalene	50	48.6	ug/L	97				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	120	ug/L	120				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	47.3	ug/L	95				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	46.2	ug/L	92				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.4	ug/L	95				70 (72)	130 (98)	
	2-Chloronaphthalene	50	45.9	ug/L	92				70 (59)	130 (106)	
	2-Nitroaniline	50	47.2	ug/L	94				70 (73)	130 (114)	
	Dimethylphthalate	50	48.4	ug/L	97				70 (64)	130 (103)	
	Acenaphthylene	50	50.8	ug/L	102				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	47.0	ug/L	94				70 (64)	130 (110)	
	3-Nitroaniline	50	31.3	ug/L	63		*		70 (28)	130 (100)	
	Acenaphthene	50	48.1	ug/L	96				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	87.8	ug/L	88				20 (36)	160 (166)	
	4-Nitrophenol	100	85.3	ug/L	85				20 (45)	160 (147)	
	Dibenzofuran	50	47.2	ug/L	94				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	47.4	ug/L	95				70 (60)	130 (115)	
	Diethylphthalate	50	47.1	ug/L	94				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	48.4	ug/L	97				70 (61)	130 (104)	
	Fluorene	50	47.8	ug/L	96				70 (64)	130 (107)	
	4-Nitroaniline	50	47.8	ug/L	96				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	52.4	ug/L	105				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	48.9	ug/L	98				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	48.4	ug/L	97				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8270E **DataFile:** BF140785.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165432BS	Hexachlorobenzene	50	46.9	ug/L	94				70 (73)	130 (106)	
	Atrazine	50	55.0	ug/L	110				70 (76)	130 (120)	
	Pentachlorophenol	100	84.0	ug/L	84				20 (47)	160 (114)	
	Phenanthrene	50	49.5	ug/L	99				70 (62)	130 (109)	
	Anthracene	50	51.6	ug/L	103				70 (65)	130 (110)	
	Carbazole	50	50.3	ug/L	101				70 (62)	130 (106)	
	Di-n-butylphthalate	50	48.3	ug/L	97				70 (64)	130 (106)	
	Fluoranthene	50	51.1	ug/L	102				70 (64)	130 (110)	
	Pyrene	50	46.2	ug/L	92				70 (71)	130 (103)	
	Butylbenzylphthalate	50	45.8	ug/L	92				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	34.2	ug/L	68		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	50.2	ug/L	100				70 (62)	130 (107)	
	Chrysene	50	49.5	ug/L	99				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	42.4	ug/L	85				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	40.0	ug/L	80				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	48.0	ug/L	96				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	55.8	ug/L	112				70 (77)	130 (105)	
	Benzo(a)pyrene	50	54.3	ug/L	109				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	51.0	ug/L	102				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	50.3	ug/L	101				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	47.1	ug/L	94				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	46.7	ug/L	93				70 (72)	130 (101)	
	1,4-Dioxane	50	42.9	ug/L	86				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	50.7	ug/L	101				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8270E **DataFile:** BF140786.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165432BSD	Benzaldehyde	50	13.7	ug/L	27	1			20 (10)	160 (162)	20 (20)
	Phenol	50	51.0	ug/L	102	2			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	50.5	ug/L	101	0			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	50.9	ug/L	102	2			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	50.0	ug/L	100	1			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	49.7	ug/L	99	2			70 (65)	130 (100)	20 (20)
	Acetophenone	50	48.2	ug/L	96	4			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	51.4	ug/L	103	2			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	49.7	ug/L	99	2			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	47.2	ug/L	94	2			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	45.6	ug/L	91	4			70 (58)	130 (106)	20 (20)
	Isophorone	50	49.4	ug/L	99	3			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	50.2	ug/L	100	4			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	62.4	ug/L	125	3			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	49.0	ug/L	98	4			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	50.4	ug/L	101	3			70 (66)	130 (115)	20 (20)
	Naphthalene	50	47.8	ug/L	96	2			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	24.4	ug/L	49	10	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	45.5	ug/L	91	2			70 (69)	130 (101)	20 (20)
	Caprolactam	50	51.8	ug/L	104	5			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	49.5	ug/L	99	3			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	49.9	ug/L	100	3			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	130	ug/L	130	8			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	47.6	ug/L	95	1			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	47.4	ug/L	95	3			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	48.1	ug/L	96	1			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	47.3	ug/L	95	3			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	48.5	ug/L	97	3			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	49.9	ug/L	100	3			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	52.0	ug/L	104	2			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	47.6	ug/L	95	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	31.1	ug/L	62	1	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	48.9	ug/L	98	2			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	94.0	ug/L	94	7			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	88.6	ug/L	89	4			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	49.2	ug/L	98	4			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	48.8	ug/L	98	3			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	49.1	ug/L	98	4			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	49.3	ug/L	99	2			70 (61)	130 (104)	20 (20)
	Fluorene	50	49.7	ug/L	99	4			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	49.2	ug/L	98	3			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	56.0	ug/L	112	7			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	50.6	ug/L	101	3			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	49.1	ug/L	98	1			70 (73)	130 (103)	20 (20)

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8270E **DataFile:** BF140786.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165432BSD	Hexachlorobenzene	50	46.9	ug/L	94	0			70 (73)	130 (106)	20 (20)
	Atrazine	50	57.1	ug/L	114	4			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	84.9	ug/L	85	1			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	51.0	ug/L	102	3			70 (62)	130 (109)	20 (20)
	Anthracene	50	53.5	ug/L	107	4			70 (65)	130 (110)	20 (20)
	Carbazole	50	51.1	ug/L	102	2			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	50.2	ug/L	100	4			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	52.3	ug/L	105	2			70 (64)	130 (110)	20 (20)
	Pyrene	50	46.8	ug/L	94	1			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	47.4	ug/L	95	3			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	34.8	ug/L	70	2			70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	51.9	ug/L	104	3			70 (62)	130 (107)	20 (20)
	Chrysene	50	50.8	ug/L	102	3			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	44.5	ug/L	89	5			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	42.2	ug/L	84	5			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	49.8	ug/L	100	4			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	57.9	ug/L	116	4			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	55.5	ug/L	111	2			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	50.5	ug/L	101	1			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	50.0	ug/L	100	1			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	47.2	ug/L	94	0			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	48.0	ug/L	96	3			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	43.3	ug/L	87	1			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	55.3	ug/L	111	9			70 (63)	130 (116)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165432BL

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

Lab File ID: BF140784.D Lab Sample ID: PB165432BL

Instrument ID: BNA_F Date Extracted: 12/06/2024

Matrix: (soil/water) Water Date Analyzed: 12/09/2024

Level: (low/med) LOW Time Analyzed: 12:47

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165432BS	PB165432BS	BF140785.D	12/09/2024
PB165432BSD	PB165432BSD	BF140786.D	12/09/2024
LL-001	P5093-01	BF140765.D	12/06/2024
LL-001-FB-12-4-24	P5093-02	BF140766.D	12/06/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM SAS No.: P5093 SDG NO.: P5093

Lab File ID: BF140526.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	48
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	99.8
443	15.0 - 24.0% of mass 442	18.1 (18.1) 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
SSTDICC2.5	SSTDICC2.5	BF140528.D	11/21/2024	11:13
SSTDICC005	SSTDICC005	BF140529.D	11/21/2024	11:39
SSTDICC010	SSTDICC010	BF140530.D	11/21/2024	12:05
SSTDICC020	SSTDICC020	BF140531.D	11/21/2024	12:32
SSTDICCC040	SSTDICCC040	BF140532.D	11/21/2024	12:58
SSTDICC050	SSTDICC050	BF140533.D	11/21/2024	13:25
SSTDICC060	SSTDICC060	BF140534.D	11/21/2024	13:51
SSTDICC080	SSTDICC080	BF140535.D	11/21/2024	14:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM SAS No.: P5093 SDG NO.: P5093

Lab File ID: BF140759.D DFTPP Injection Date: 12/06/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:41

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 (1.7) 1
69	Mass 69 relative abundance	36.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	28.8
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	99.8
443	15.0 - 24.0% of mass 442	18.9 (19) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140760.D	12/06/2024	12:08
LL-001	P5093-01	BF140765.D	12/06/2024	14:40
LL-001-FB-12-4-24	P5093-02	BF140766.D	12/06/2024	15:06

Raw Data: **BF140782.D**

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM SAS No.: P5093 SDG NO.: P5093

Lab File ID: BF140782.D DFTPP Injection Date: 12/09/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.6
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.5
70	Less than 2.0% of mass 69	0.3 (0.8) 1
127	10.0 - 80.0% of mass 198	47.7
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	6.7
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.7
442	Greater than 50% of mass 198	94.3
443	15.0 - 24.0% of mass 442	17.1 (18.1) 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	BF140783.D	12/09/2024	12:21
PB165432BL	PB165432BL	BF140784.D	12/09/2024	12:47
PB165432BS	PB165432BS	BF140785.D	12/09/2024	13:13
PB165432BSD	PB165432BSD	BF140786.D	12/09/2024	13:39

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/06/2024

Lab File ID: BF140760.D Time Analyzed: 12:08

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	95022	6.875	350541	8.16	200131	9.91
	UPPER LIMIT	190044	7.375	701082	8.657	400262	10.41
	LOWER LIMIT	47511	6.375	175271	7.657	100066	9.41
	EPA SAMPLE NO.						
01	LL-001	64961	6.87	244629	8.15	135499	9.90
02	LL-001-FB-12-4-24	71328	6.87	277405	8.15	168241	9.90

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.: P5093 SAS No.: P5093 SDG NO.: P5093

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/06/2024

Lab File ID: BF140760.D Time Analyzed: 12:08

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	378576	11.404	226669	14.057	194773	15.557
	UPPER LIMIT	757152	11.904	453338	14.557	389546	16.057
	LOWER LIMIT	189288	10.904	113335	13.557	97386.5	15.057
	EPA SAMPLE NO.						
01	LL-001	232952	11.40	138014	14.05	150336	15.56
02	LL-001-FB-12-4-24	294061	11.40	155103	14.05	186876	15.56

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/09/2024

Lab File ID: BF140783.D Time Analyzed: 12:21

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	92885	6.863	346239	8.15	189814	9.90
	UPPER LIMIT	185770	7.363	692478	8.645	379628	10.404
	LOWER LIMIT	46442.5	6.363	173120	7.645	94907	9.404
	EPA SAMPLE NO.						
01	PB165432BL	69444	6.86	265288	8.15	149935	9.90
02	PB165432BS	74041	6.86	285606	8.15	160534	9.90
03	PB165432BSD	73193	6.86	278673	8.15	158385	9.90

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.: P5093 SAS No.: P5093 SDG NO.: P5093

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/09/2024

Lab File ID: BF140783.D Time Analyzed: 12:21

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	363500	11.398	224946	14.051	187010	15.551
	UPPER LIMIT	727000	11.898	449892	14.551	374020	16.051
	LOWER LIMIT	181750	10.898	112473	13.551	93505	15.051
	EPA SAMPLE NO.						
01	PB165432BL	289301	11.39	206484	14.05	167176	15.55
02	PB165432BS	304861	11.40	195558	14.05	141616	15.55
03	PB165432BSD	302865	11.40	197310	14.05	144540	15.55

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.

SAMPLE DATA

Raw Data: **BF140765.D**

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Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	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
BF140765.D	1	12/06/24 09:33	12/06/24 14:40	PB165432

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	UQ	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: **BF140765.D**

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Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	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
BF140765.D	1	12/06/24 09:33	12/06/24 14:40	PB165432

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	UQ	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	UQ	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: **BF140765.D**

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Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	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
BF140765.D	1	12/06/24 09:33	12/06/24 14:40	PB165432

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	89.8		15 (10) - 110 (139)	60%	SPK: 150
13127-88-3	Phenol-d6	60.9		15 (10) - 110 (134)	41%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.0		30 (49) - 130 (133)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.5		30 (52) - 130 (132)	98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	75.7		30 (48) - 130 (125)	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	65000	6.869			
1146-65-2	Naphthalene-d8	245000	8.151			
15067-26-2	Acenaphthene-d10	135000	9.904			
1517-22-2	Phenanthrene-d10	233000	11.398			
1719-03-5	Chrysene-d12	138000	14.051			
1520-96-3	Perylene-d12	150000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	170	JB		2.13	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.60	AB		5.09	ug/L
000119-61-9	Benzophenone	2.90	J		10.6	ug/L
007683-64-9	Supraene	2.20	J		14.9	ug/L

Raw Data: **BF140765.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	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
BF140765.D	1	12/06/24 09:33	12/06/24 14:40	PB165432

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: **BF140765.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140765.D
Acq On : 06 Dec 2024 14:40
Operator : RC/JU
Sample : P5093-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LL-001

Quant Time: Dec 06 14:04:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

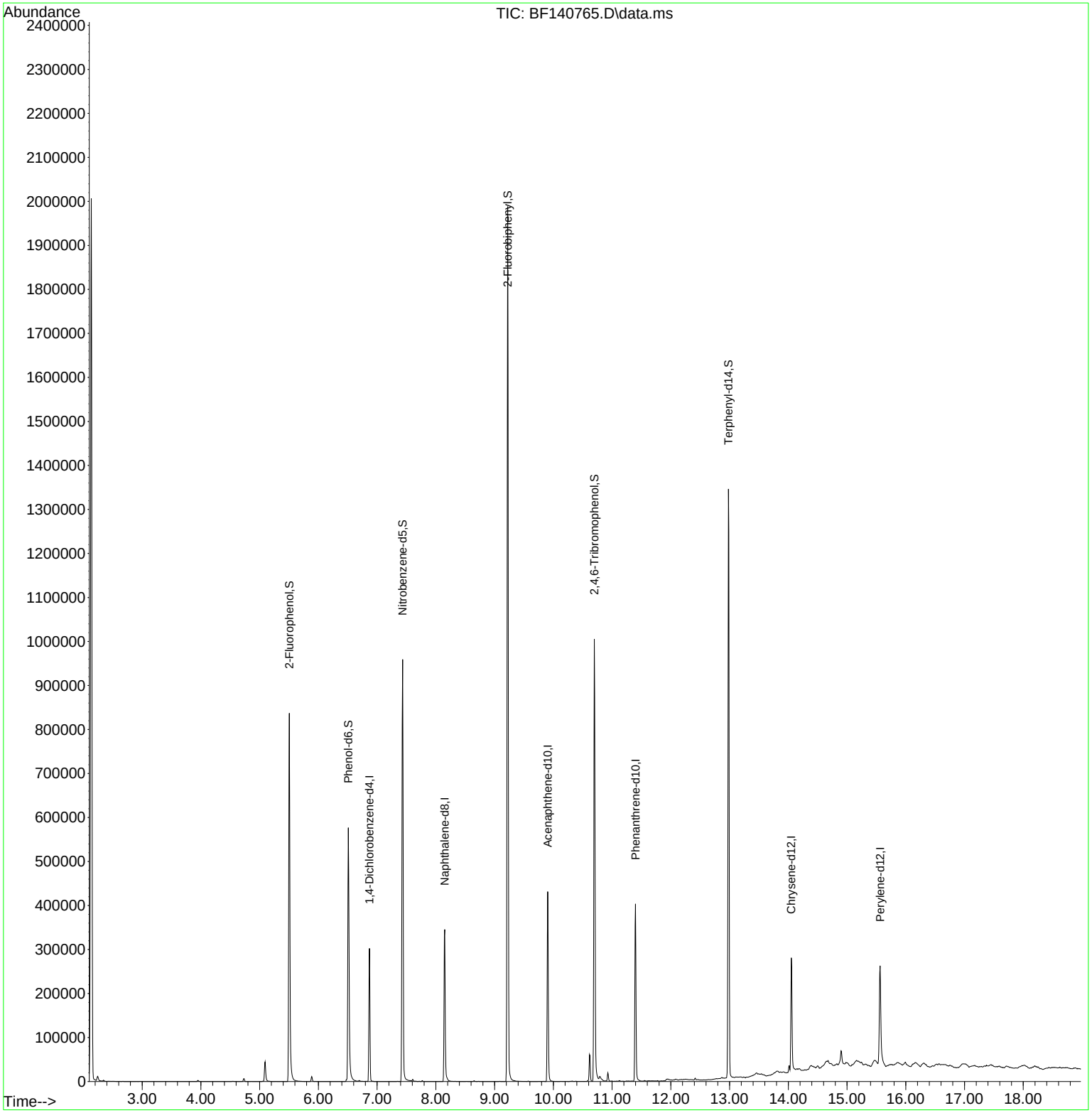
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	64961	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	244629	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	135499	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	232952	20.000	ng	0.00
76) Chrysene-d12	14.051	240	138014	20.000	ng	0.00
86) Perylene-d12	15.563	264	150336	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	341955	89.815	ng	0.00
7) Phenol-d6	6.510	99	306307	60.855	ng	0.00
23) Nitrobenzene-d5	7.434	82	454480	95.029	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	188323	129.952	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	886997	97.534	ng	-0.01
79) Terphenyl-d14	12.980	244	670690	75.670	ng	-0.01
Target Compounds						Qvalue

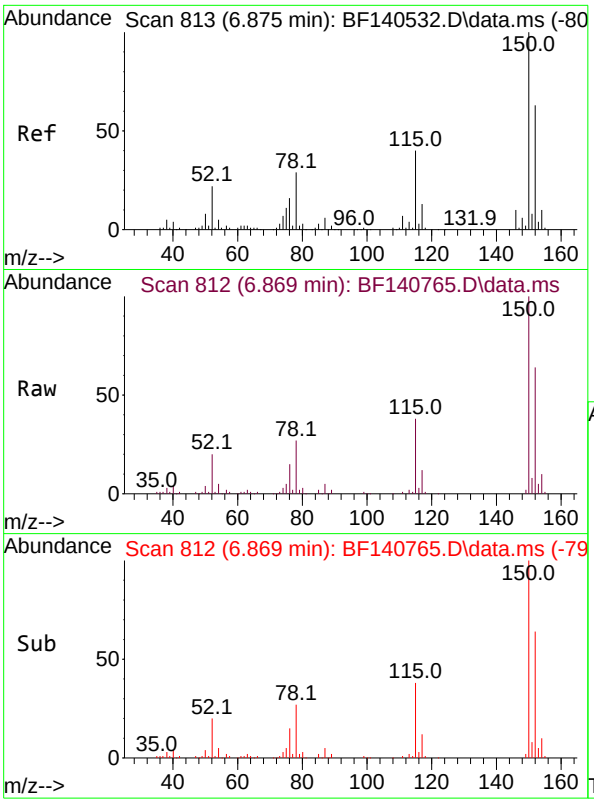
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140765.D
Acq On : 06 Dec 2024 14:40
Operator : RC/JU
Sample : P5093-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LL-001

Quant Time: Dec 06 14:04:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



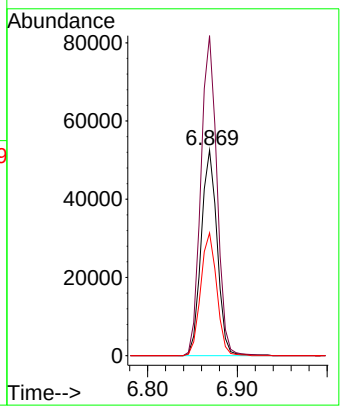


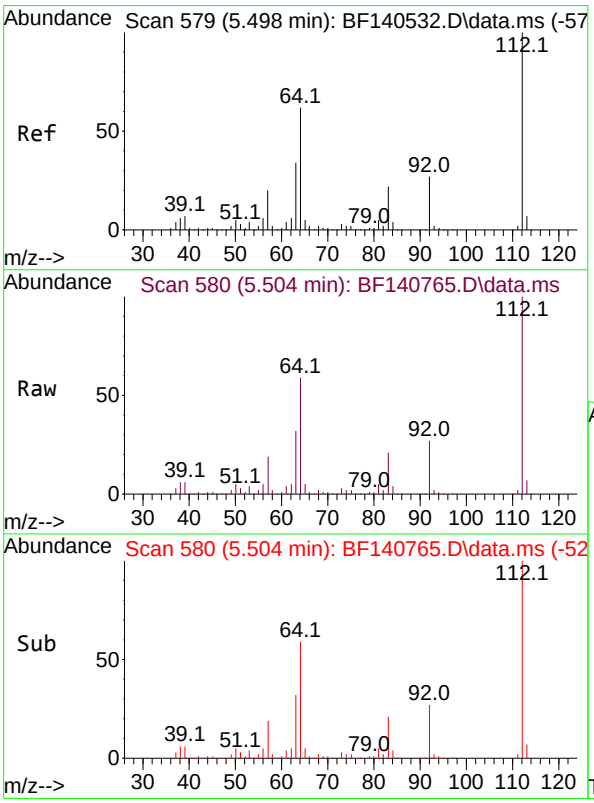
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Instrument :
BNA_F
ClientSampleId :
LL-001

Tgt Ion:152 Resp: 64961

Ion	Ratio	Lower	Upper
152	100		
150	155.8	128.5	192.7
115	59.8	50.2	75.4

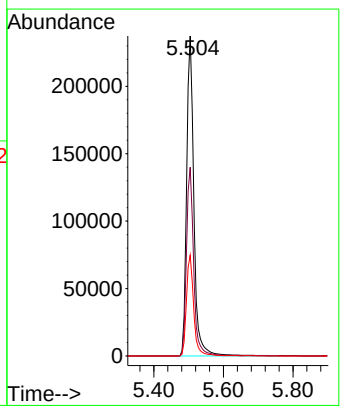


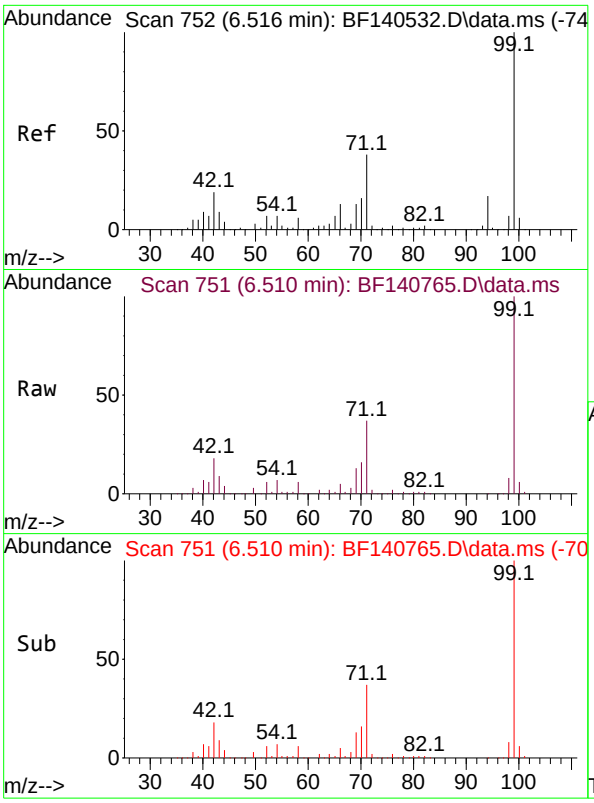


#5
2-Fluorophenol
Concen: 89.815 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Tgt Ion:112 Resp: 341955

Ion	Ratio	Lower	Upper
112	100		
64	58.9	49.2	73.8
63	31.5	27.0	40.4



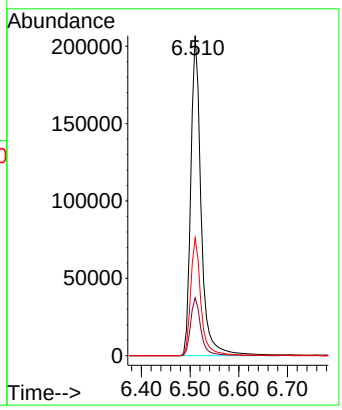


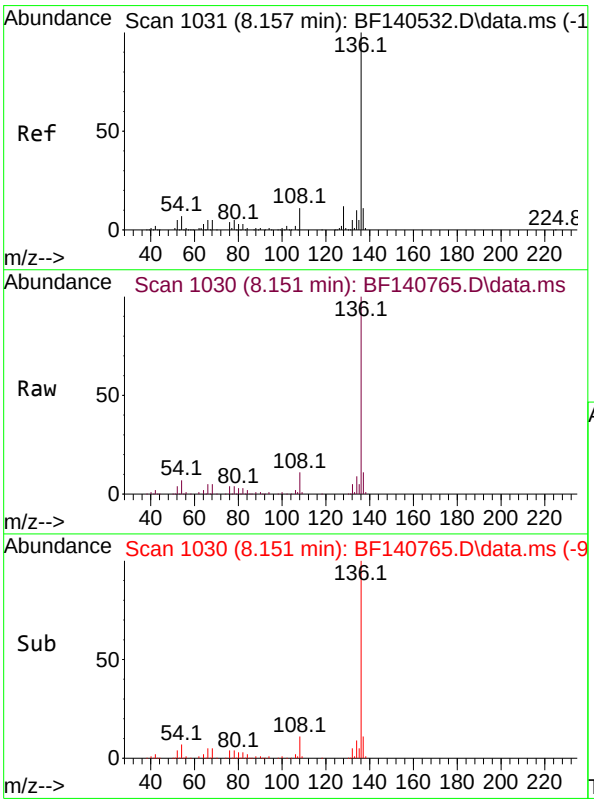
#7
Phenol-d6
Concen: 60.855 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Instrument :
BNA_F
ClientSampleId :
LL-001

Tgt Ion: 99 Resp: 306307

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.4	23.0
71	36.8	30.6	46.0

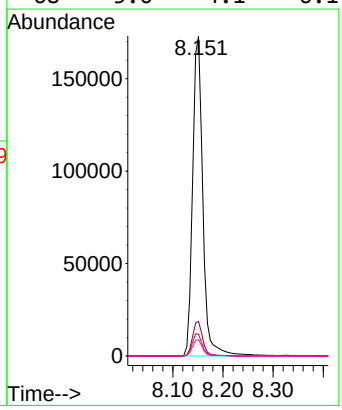


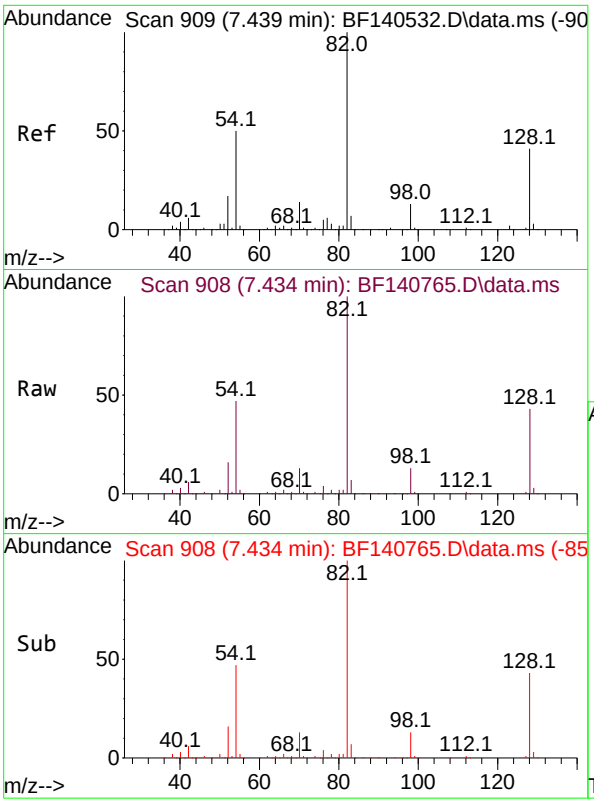


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Tgt Ion:136 Resp: 244629

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	6.8	5.8	8.8
68	5.0	4.1	6.1



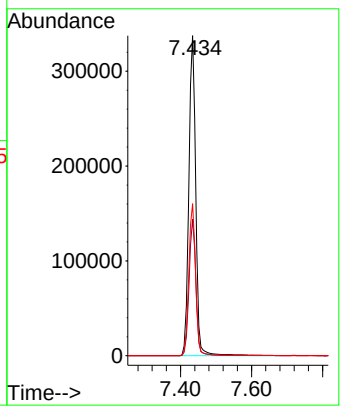


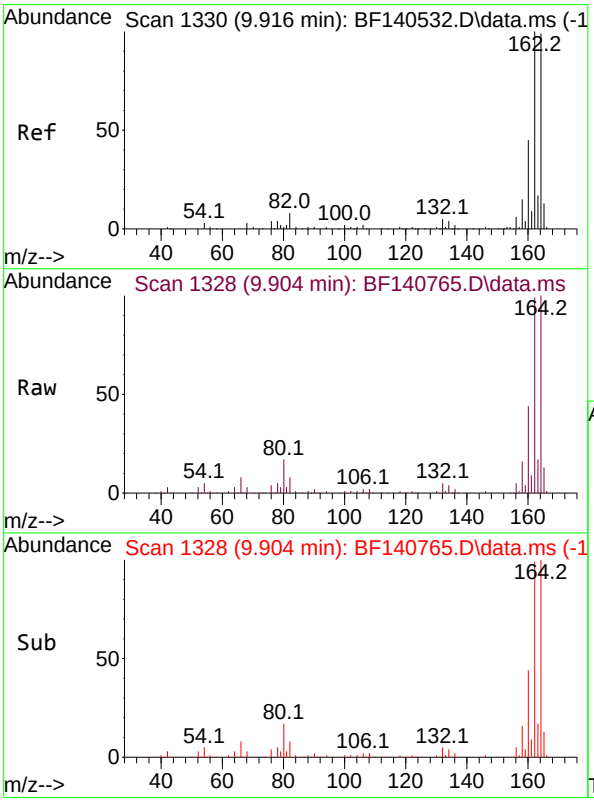
#23
Nitrobenzene-d5
Concen: 95.029 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Instrument :
BNA_F
ClientSampleId :
LL-001

Tgt Ion: 82 Resp: 454480

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.0	49.4
54	47.5	39.5	59.3

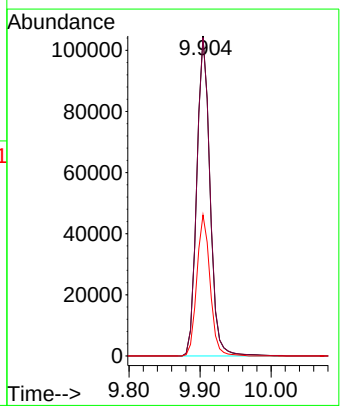


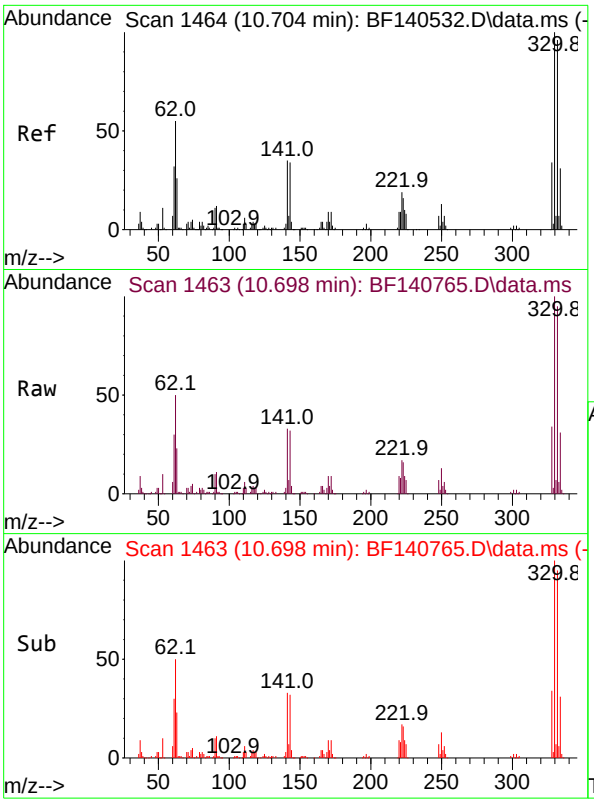


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Tgt Ion:164 Resp: 135499

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.6	120.8
160	44.0	36.2	54.4



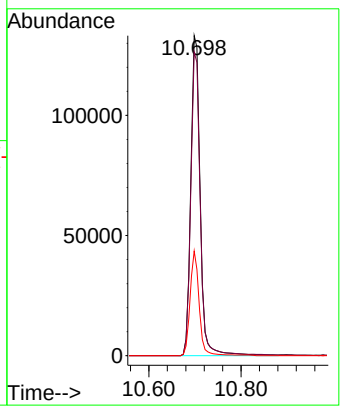


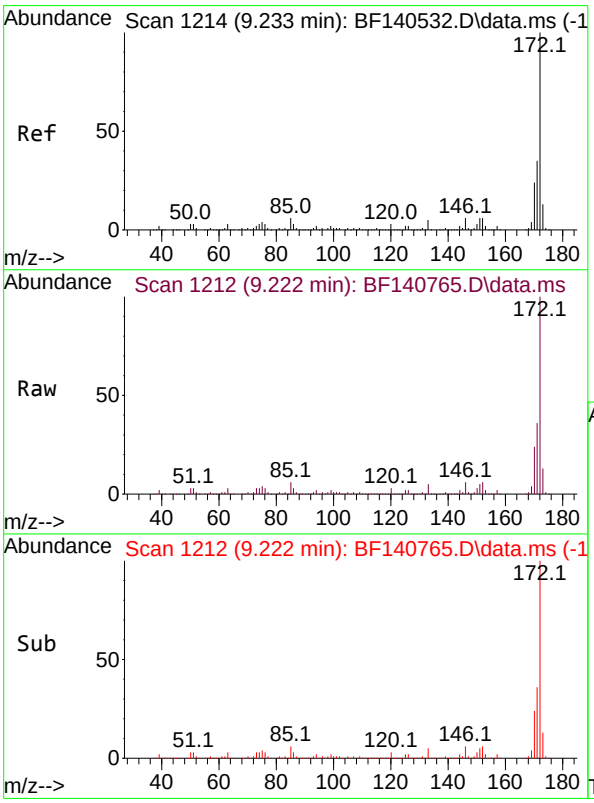
#42
2,4,6-Tribromophenol
Concen: 129.952 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Instrument :
BNA_F
ClientSampleId :
LL-001

Tgt Ion:330 Resp: 188323

Ion	Ratio	Lower	Upper
330	100		
332	94.8	76.9	115.3
141	31.4	26.7	40.1

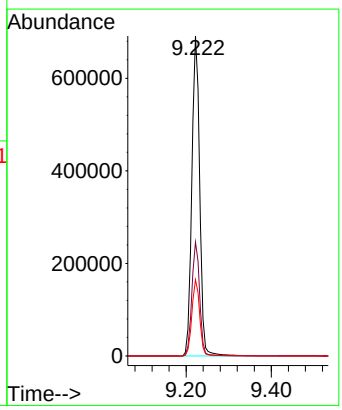


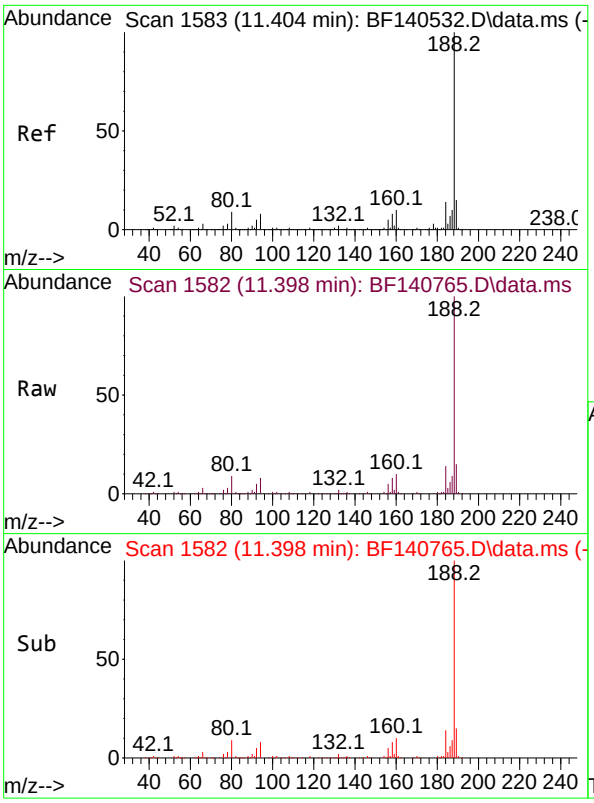


#45
2-Fluorobiphenyl
Concen: 97.534 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Tgt Ion:172 Resp: 886997

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.4	42.6
170	23.8	19.0	28.6



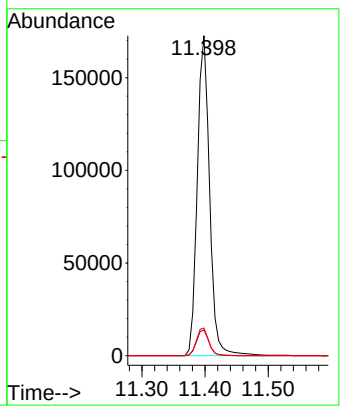


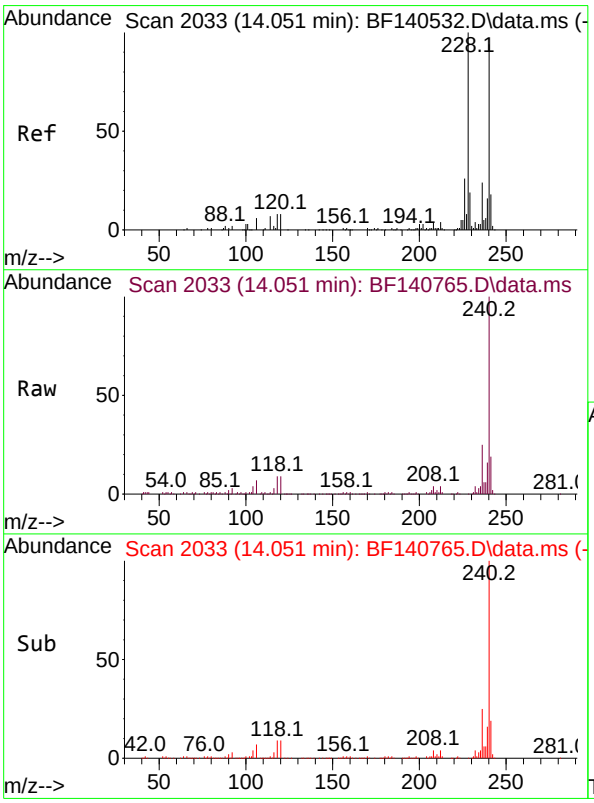
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Instrument :
BNA_F
ClientSampleId :
LL-001

Tgt Ion:188 Resp: 232952

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.4	9.6
80	8.6	6.9	10.3

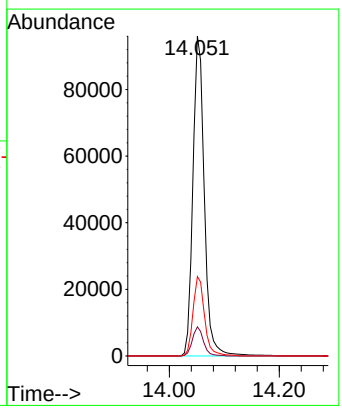


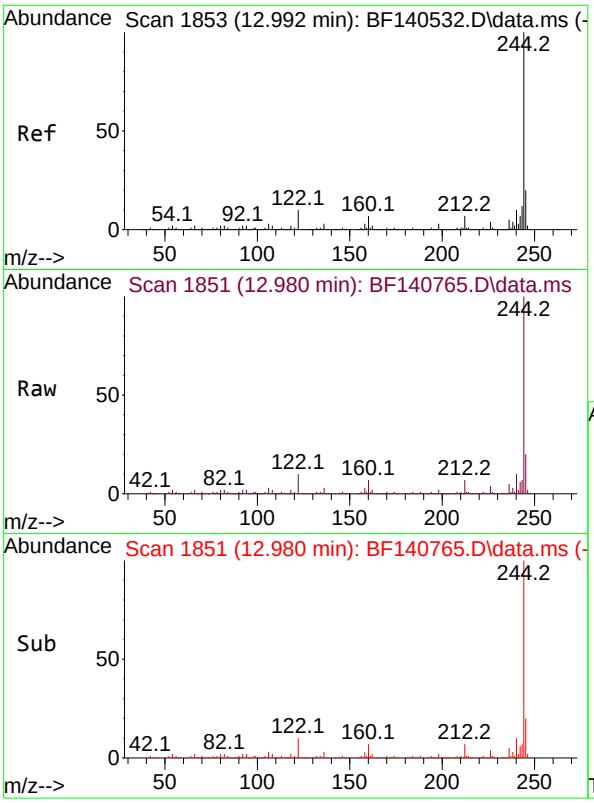


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Tgt Ion:240 Resp: 138014

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.3	10.9
236	24.8	20.6	31.0



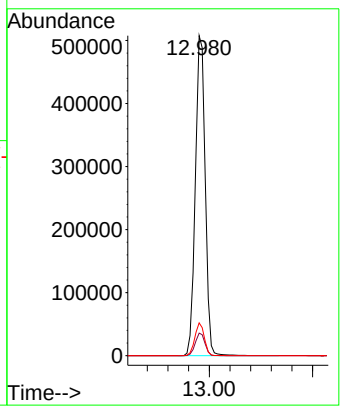


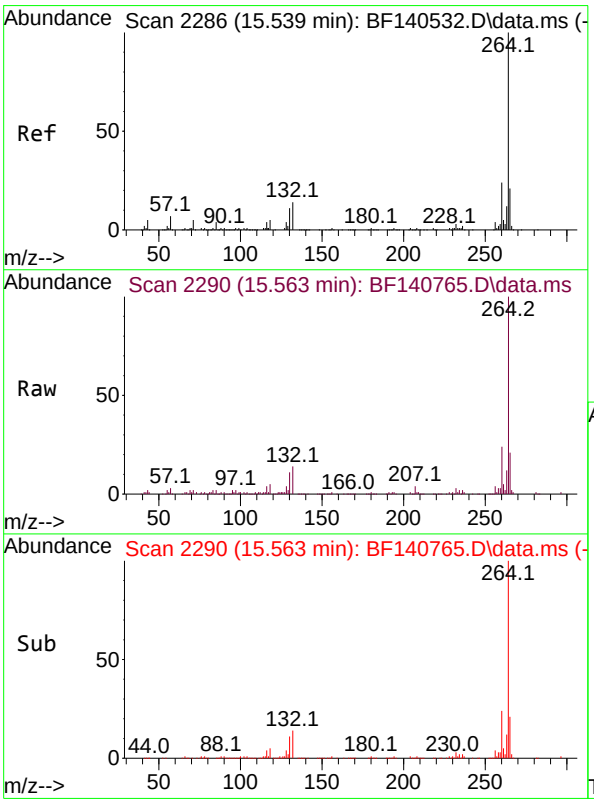
#79
Terphenyl-d14
Concen: 75.670 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Instrument :
BNA_F
ClientSampleId :
LL-001

Tgt Ion:244 Resp: 670690

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	10.3	8.0	12.0

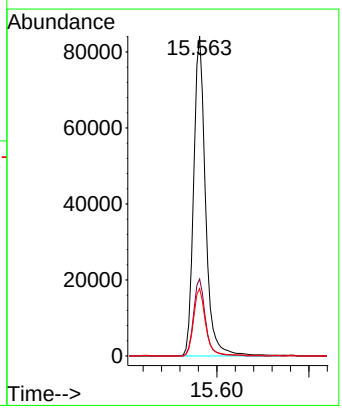




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2290
Delta R.T. 0.024 min
Lab File: BF140765.D
Acq: 06 Dec 2024 14:40

Tgt Ion:264 Resp: 150336

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.0	28.6
265	21.0	16.6	25.0



Raw Data: **BF140766.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	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
BF140766.D	1	12/06/24 09:33	12/06/24 15:06	PB165432

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	UQ	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: **BF140766.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	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
BF140766.D	1	12/06/24 09:33	12/06/24 15:06	PB165432

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	UQ	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	UQ	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: **BF140766.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	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
BF140766.D	1	12/06/24 09:33	12/06/24 15:06	PB165432

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	101		15 (10) - 110 (139)	68%	SPK: 150
13127-88-3	Phenol-d6	65.0		15 (10) - 110 (134)	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (49) - 130 (133)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	109		30 (52) - 130 (132)	109%	SPK: 100
118-79-6	2,4,6-Tribromophenol	142		15 (44) - 110 (137)	95%	SPK: 150
1718-51-0	Terphenyl-d14	103		30 (48) - 130 (125)	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71300	6.869			
1146-65-2	Naphthalene-d8	277000	8.151			
15067-26-2	Acenaphthene-d10	168000	9.904			
1517-22-2	Phenanthrene-d10	294000	11.398			
1719-03-5	Chrysene-d12	155000	14.051			
1520-96-3	Perylene-d12	187000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	170	JB		2.13	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.00	AB		5.09	ug/L
000106-62-7	1-Propanol, 2-(2-hydroxypropoxy)-	2.20	J		8.39	ug/L

Raw Data: **BF140766.D**

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Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	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
BF140766.D	1	12/06/24 09:33	12/06/24 15:06	PB165432

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\BF120624\
Data File : BF140766.D
Acq On : 06 Dec 2024 15:06
Operator : RC/JU
Sample : P5093-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Quant Time: Dec 06 14:32:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

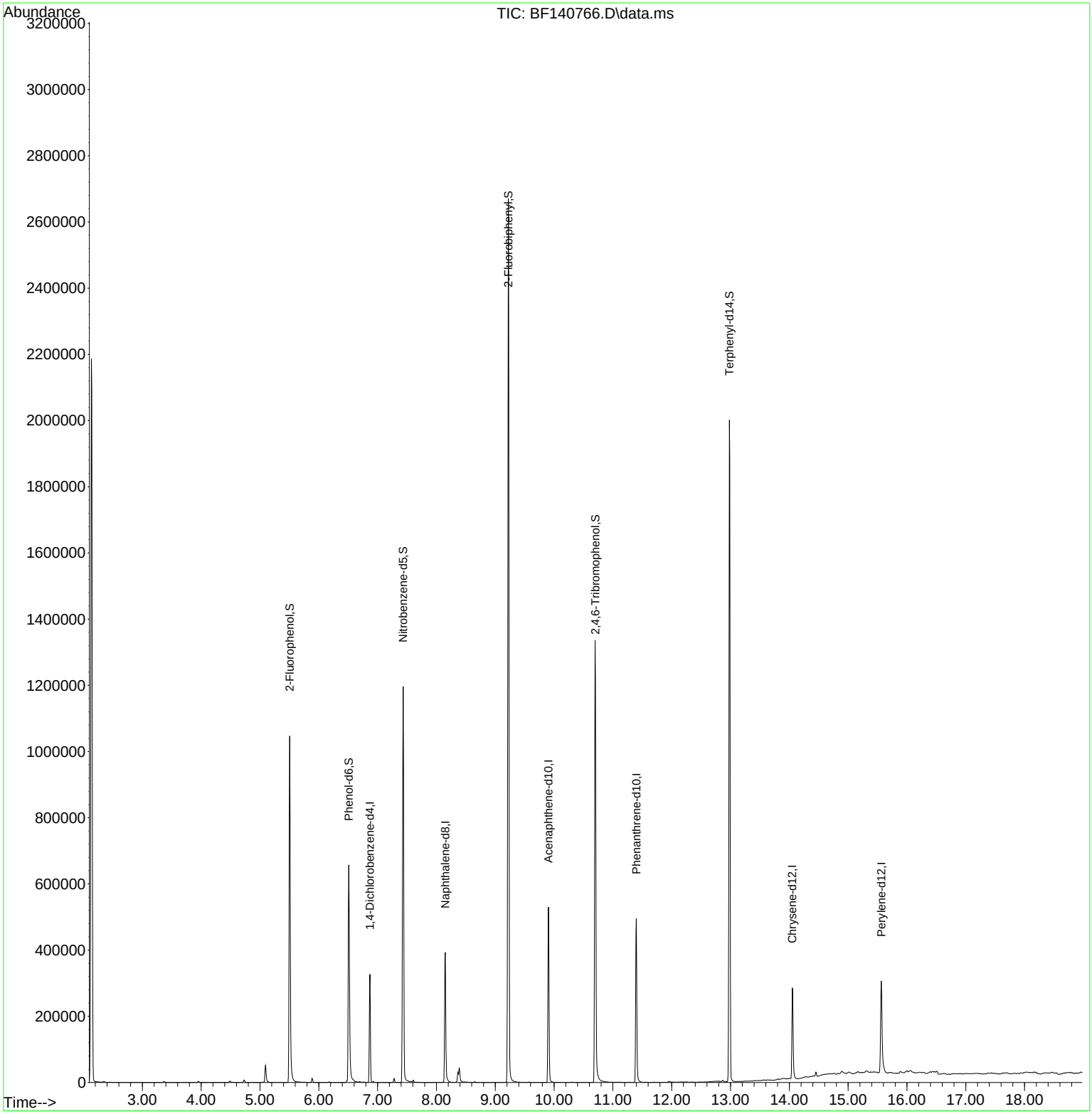
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	71328	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	277405	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	168241	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	294061	20.000	ng	0.00
76) Chrysene-d12	14.051	240	155103	20.000	ng	0.00
86) Perylene-d12	15.563	264	186876	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	423527	101.310	ng	0.00
7) Phenol-d6	6.510	99	359357	65.022	ng	0.00
23) Nitrobenzene-d5	7.434	82	571386	105.357	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	255864	142.198	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	1231975	109.104	ng	-0.01
79) Terphenyl-d14	12.980	244	1029680	103.373	ng	-0.01
Target Compounds						Qvalue

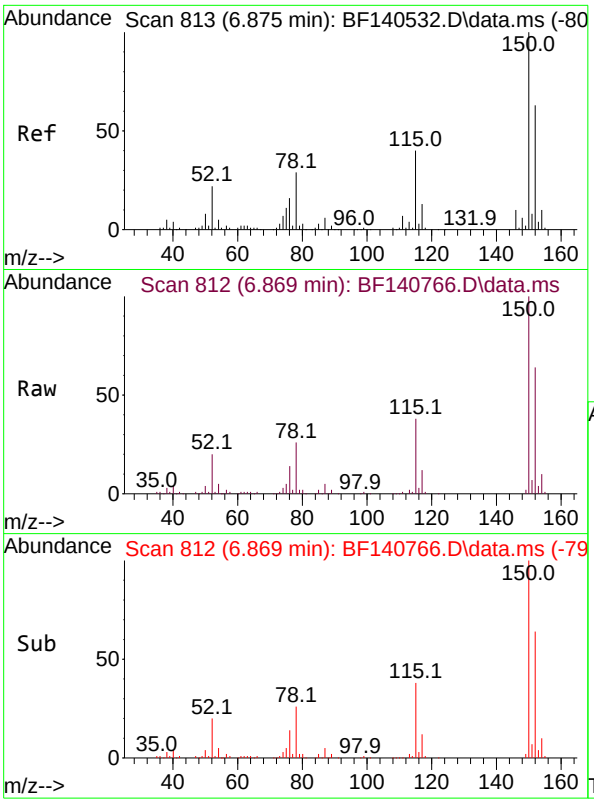
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140766.D
Acq On : 06 Dec 2024 15:06
Operator : RC/JU
Sample : P5093-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Quant Time: Dec 06 14:32:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



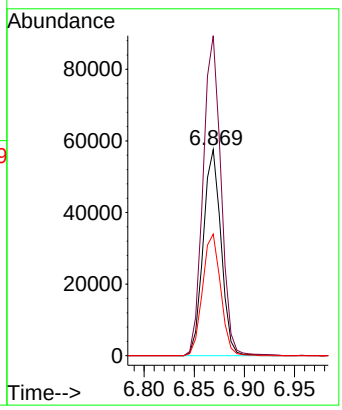


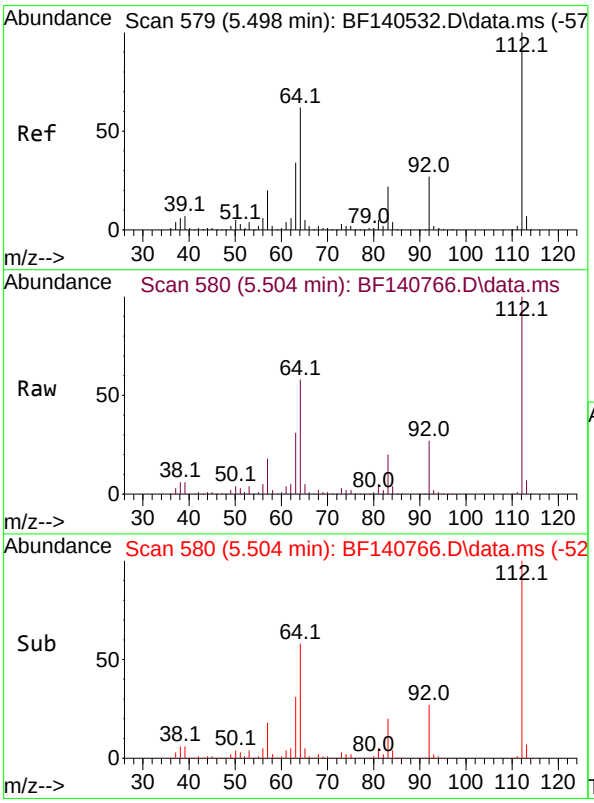
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion:152 Resp: 71328

Ion	Ratio	Lower	Upper
152	100		
150	155.2	128.5	192.7
115	59.0	50.2	75.4

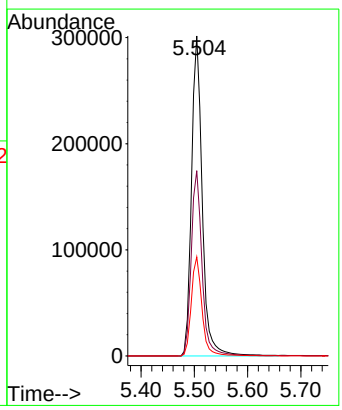


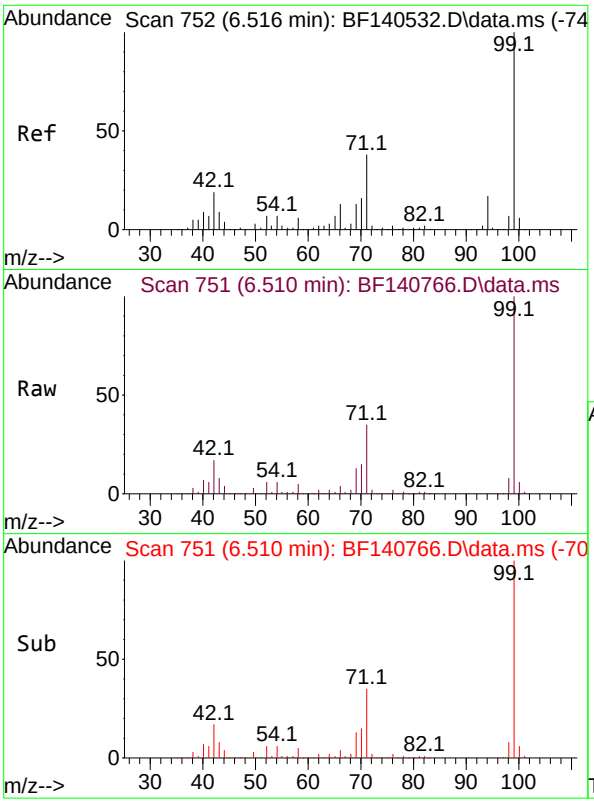


#5
2-Fluorophenol
Concen: 101.310 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Tgt Ion:112 Resp: 423527

Ion	Ratio	Lower	Upper
112	100		
64	57.9	49.2	73.8
63	31.0	27.0	40.4



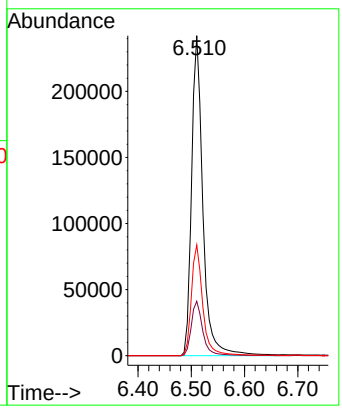


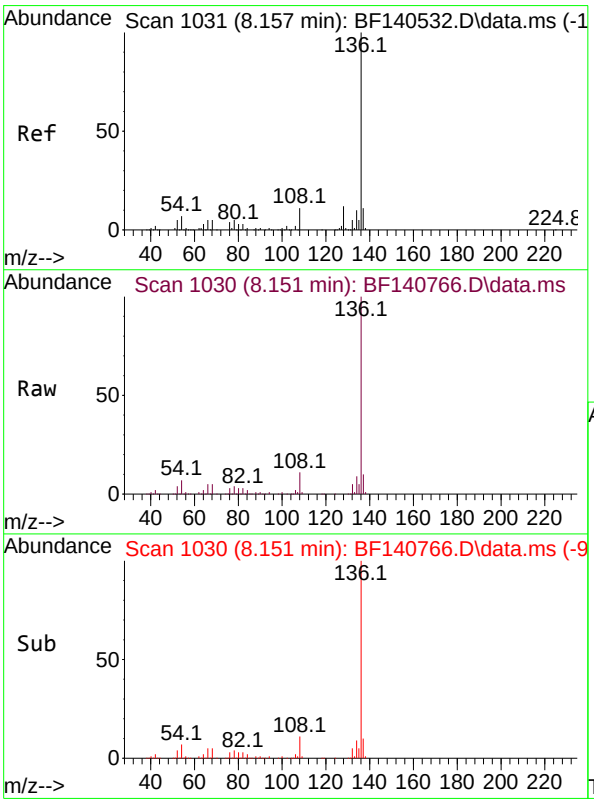
#7
Phenol-d6
Concen: 65.022 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion: 99 Resp: 359357

Ion	Ratio	Lower	Upper
99	100		
42	17.0	15.4	23.0
71	34.6	30.6	46.0

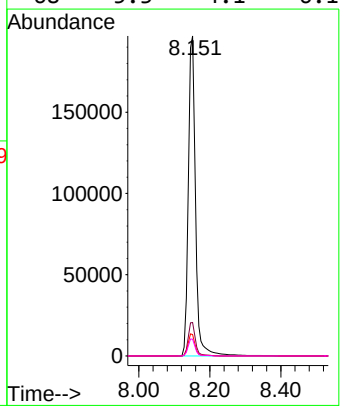


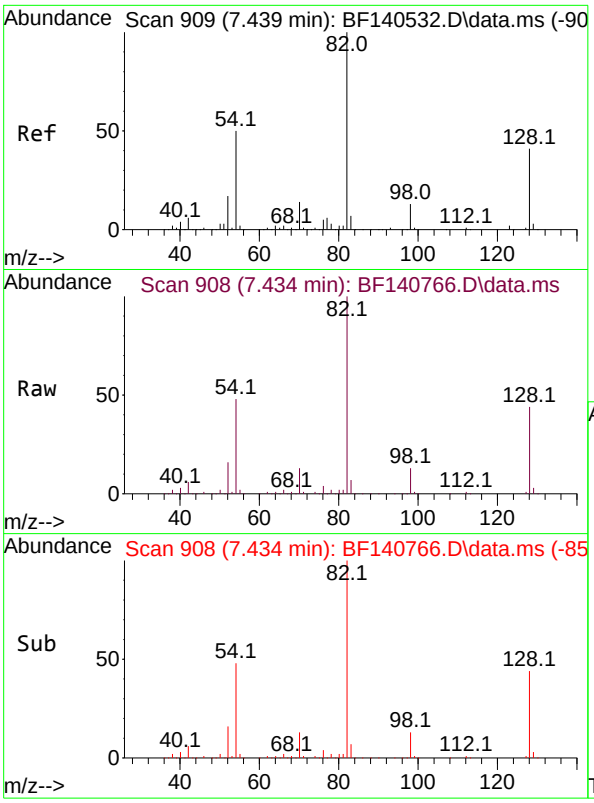


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Tgt Ion:136 Resp: 277405

Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.6	13.0
54	6.7	5.8	8.8
68	5.3	4.1	6.1



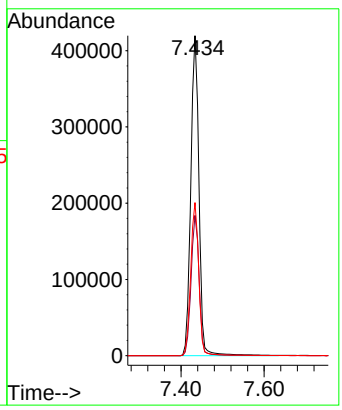


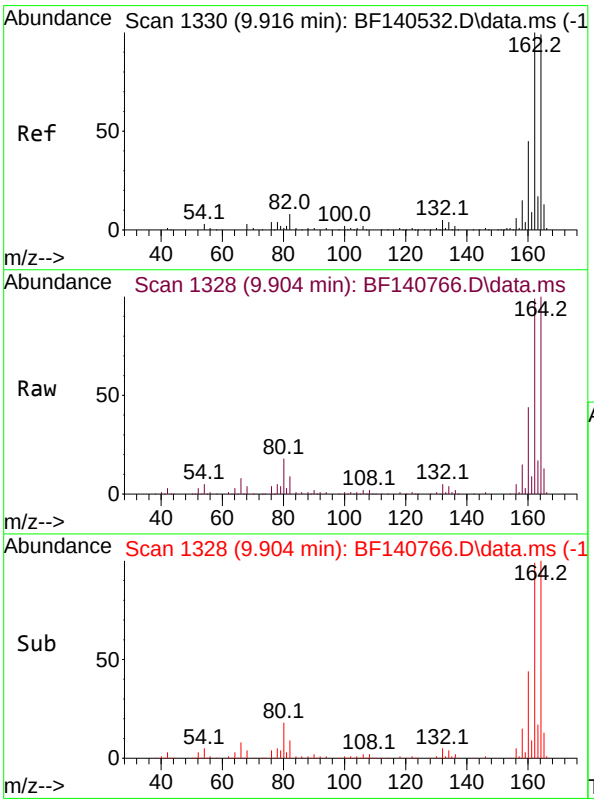
#23
Nitrobenzene-d5
Concen: 105.357 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion: 82 Resp: 571386

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.0	49.4
54	47.8	39.5	59.3

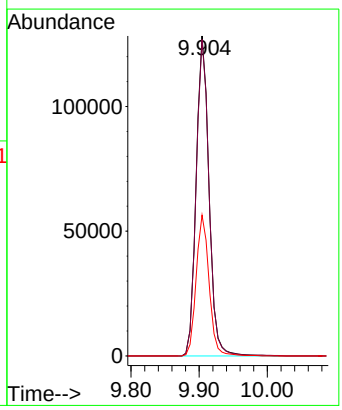


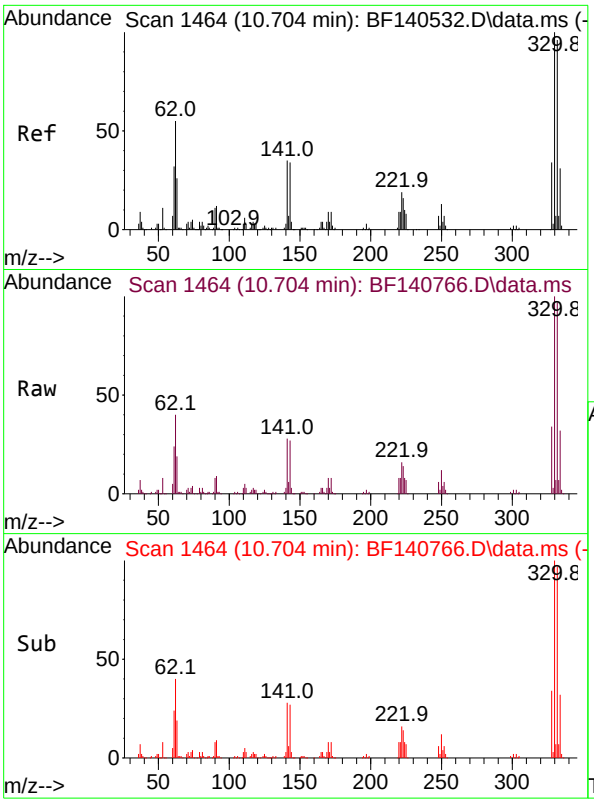


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Tgt Ion:164 Resp: 168241

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.6	120.8
160	44.0	36.2	54.4



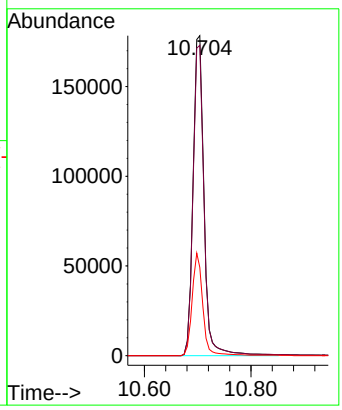


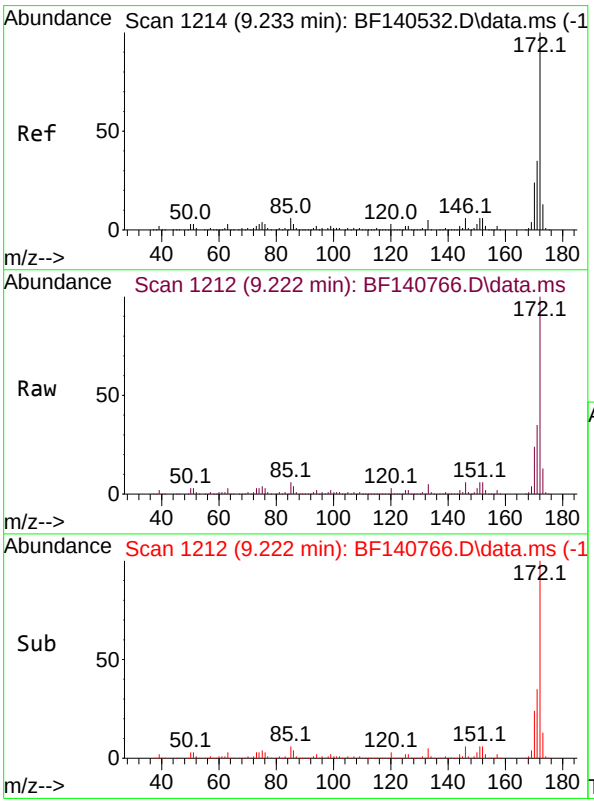
#42
2,4,6-Tribromophenol
Concen: 142.198 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion:330 Resp: 255864

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.9	115.3
141	31.1	26.7	40.1

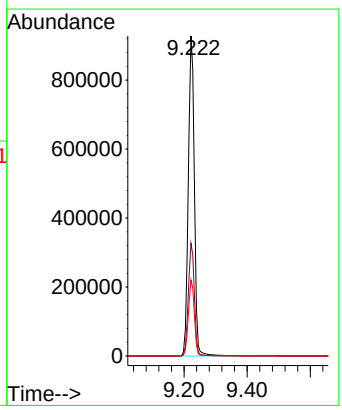


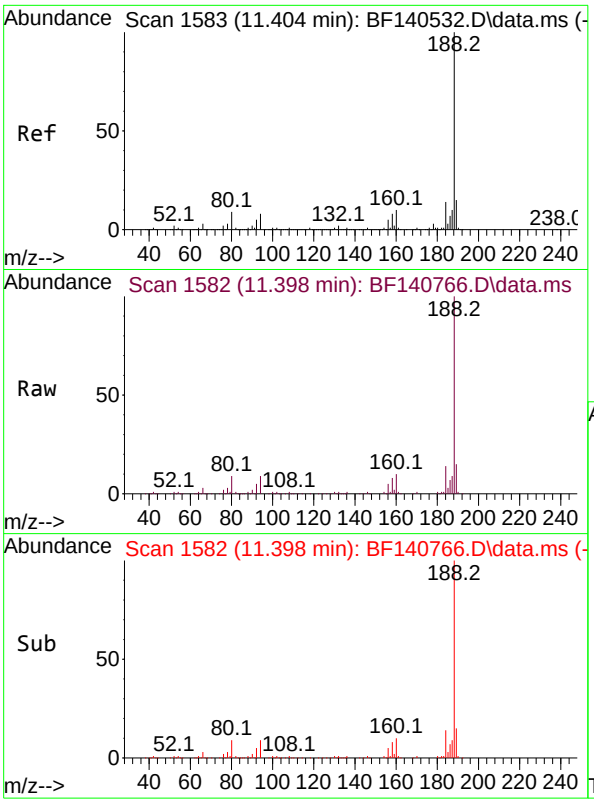


#45
2-Fluorobiphenyl
Concen: 109.104 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Tgt Ion:172 Resp: 1231975

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.8	19.0	28.6



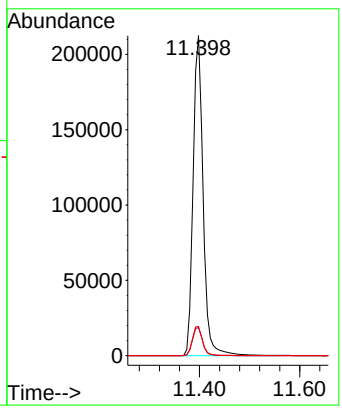


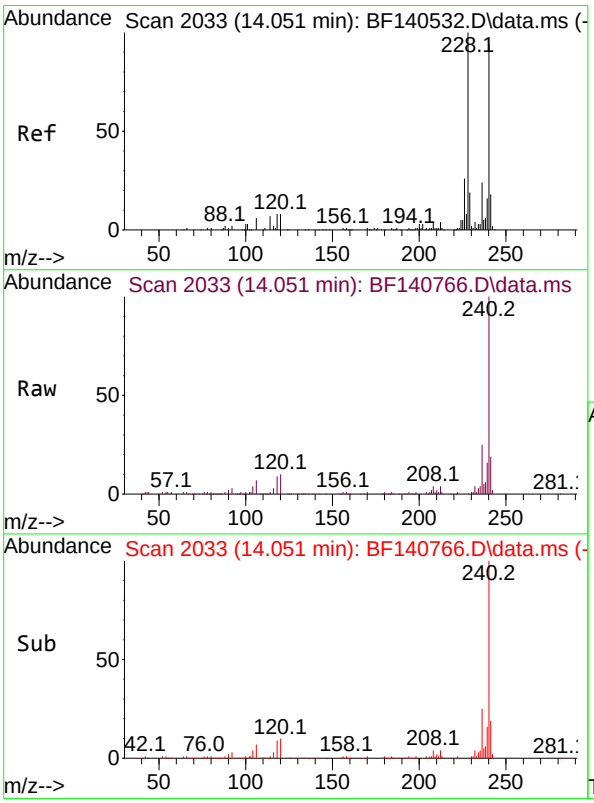
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion:188 Resp: 294061

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.4	9.6
80	9.1	6.9	10.3

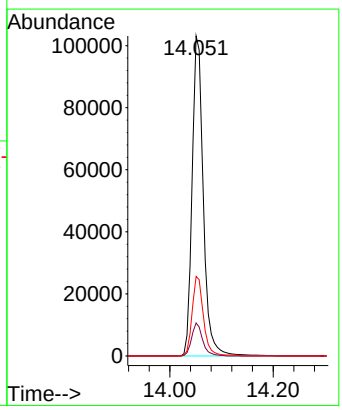


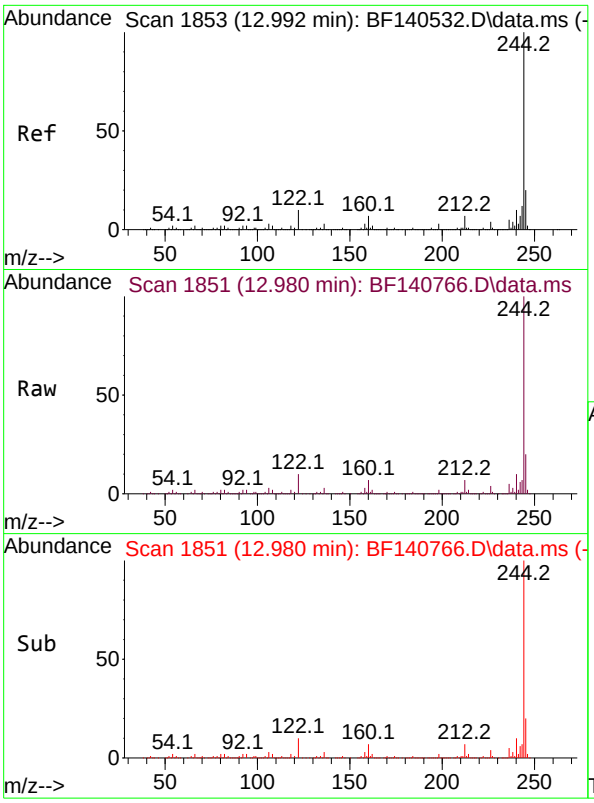


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Tgt Ion:240 Resp: 155103

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.3	10.9
236	24.9	20.6	31.0



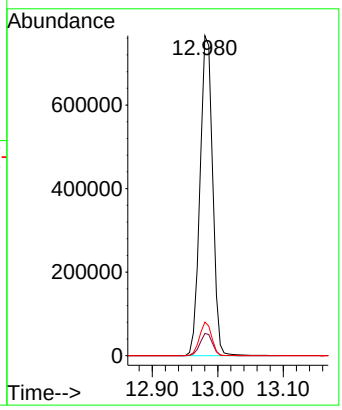


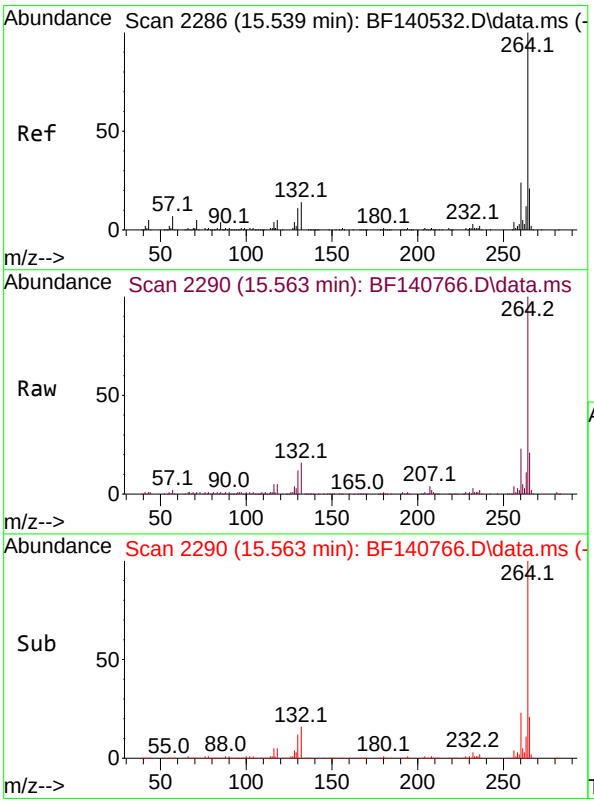
#79
Terphenyl-d14
Concen: 103.373 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Instrument :
BNA_F
ClientSampleId :
LL-001-FB-12-4-24

Tgt Ion:244 Resp: 1029680

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.8
122	10.5	8.0	12.0

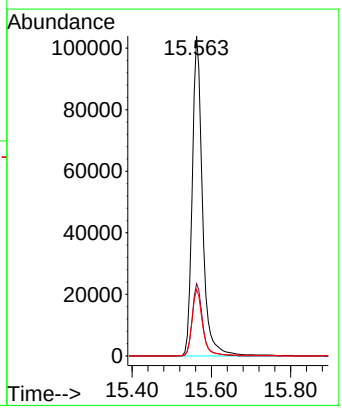




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2290
Delta R.T. 0.024 min
Lab File: BF140766.D
Acq: 06 Dec 2024 15:06

Tgt Ion:264 Resp: 186876

Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.0	28.6
265	20.8	16.6	25.0



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: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: BNA_F Calibration Date(s): 11/21/2024 11/21/2024

Calibration Time(s): 11:13 14:18

LAB FILE ID: RRF2.5 = BF140528.D RRF005 = BF140529.D RRF010 = BF140530.D
RRF020 = BF140531.D RRF040 = BF140532.D RRF050 = BF140533.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.261	1.233	1.202	1.174	1.117	1.172	5.4
Benzaldehyde			1.007	0.970	0.738	0.752	0.820	19.6
Phenol-d6		1.729	1.617	1.559	1.602	1.465	1.550	7.1
Phenol		1.723	1.648	1.620	1.667	1.514	1.583	7.0
bis(2-Chloroethyl)ether		1.292	1.242	1.214	1.246	1.146	1.211	4.6
2-Chlorophenol		1.385	1.328	1.278	1.283	1.201	1.261	6.5
2-Methylphenol		1.121	1.034	1.033	1.042	0.956	1.010	6.7
2,2-oxybis(1-Chloropropane)		1.650	1.480	1.434	1.463	1.335	1.431	8.4
Acetophenone		0.536	0.511	0.494	0.481	0.463	0.488	5.7
3+4-Methylphenols		1.495	1.362	1.305	1.347	1.211	1.298	9.0
n-Nitroso-di-n-propylamine	0.972	1.002	0.949	0.916	0.946	0.856	0.916	6.8
Nitrobenzene-d5		0.409	0.403	0.395	0.392	0.377	0.391	3.2
Hexachloroethane		0.598	0.545	0.549	0.537	0.514	0.536	6.2
Nitrobenzene		0.439	0.409	0.409	0.401	0.388	0.404	4.3
Isophorone		0.694	0.654	0.657	0.662	0.629	0.652	3.4
2-Nitrophenol		0.178	0.172	0.185	0.180	0.178	0.179	2.2
2,4-Dimethylphenol		0.221	0.214	0.213	0.224	0.204	0.214	3.4
bis(2-Chloroethoxy)methane		0.428	0.408	0.403	0.397	0.378	0.397	4.4
2,4-Dichlorophenol		0.301	0.291	0.290	0.282	0.277	0.284	3.8
Naphthalene		1.116	1.075	1.062	1.013	0.993	1.030	5.3
4-Chloroaniline		0.308	0.318	0.309	0.325	0.303	0.308	3.7
Hexachlorobutadiene		0.227	0.225	0.219	0.212	0.209	0.215	4.2
Caprolactam		0.091	0.091	0.091	0.090	0.085	0.088	4.0
4-Chloro-3-methylphenol		0.348	0.318	0.317	0.327	0.307	0.318	5.0
2-Methylnaphthalene		0.724	0.680	0.669	0.650	0.623	0.654	6.1
Hexachlorocyclopentadiene			0.055	0.090	0.114	0.121	0.107	27.8
2,4,6-Trichlorophenol		0.384	0.358	0.375	0.366	0.364	0.367	2.5
2-Fluorobiphenyl		1.550	1.402	1.423	1.291	1.255	1.342	8.9
2,4,5-Trichlorophenol		0.402	0.396	0.410	0.404	0.390	0.399	1.8
1,1-Biphenyl		1.666	1.530	1.563	1.447	1.427	1.493	6.5
2-Chloronaphthalene		1.251	1.145	1.162	1.106	1.082	1.131	5.4
2-Nitroaniline		0.367	0.351	0.379	0.367	0.363	0.363	2.5
Dimethylphthalate		1.455	1.329	1.346	1.299	1.267	1.317	5.3
Acenaphthylene		1.890	1.765	1.808	1.662	1.628	1.710	6.6

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: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: BNA_F Calibration Date(s): 11/21/2024 11/21/2024

Calibration Time(s): 11:13 14:18

LAB FILE ID: RRF2.5 = BF140528.D RRF005 = BF140529.D RRF010 = BF140530.D
RRF020 = BF140531.D RRF040 = BF140532.D RRF050 = BF140533.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.314	0.299	0.307	0.301	0.291	0.299	3.2
3-Nitroaniline		0.307	0.297	0.309	0.300	0.289	0.292	5.7
Acenaphthene		1.182	1.110	1.134	1.063	1.052	1.086	5.3
2,4-Dinitrophenol			0.057	0.089	0.140	0.145	0.122	32.7
4-Nitrophenol			0.160	0.195	0.207	0.212	0.199	10.3
Dibenzofuran		1.898	1.739	1.739	1.622	1.559	1.657	8.5
2,4-Dinitrotoluene		0.403	0.403	0.416	0.404	0.386	0.397	3.2
Diethylphthalate		1.495	1.375	1.393	1.311	1.292	1.338	6.7
4-Chlorophenyl-phenylether		0.739	0.682	0.685	0.639	0.619	0.653	7.9
Fluorene		1.509	1.409	1.399	1.295	1.263	1.330	8.4
4-Nitroaniline		0.307	0.301	0.315	0.312	0.310	0.306	2.7
4,6-Dinitro-2-methylphenol			0.073	0.090	0.110	0.110	0.102	16.7
n-Nitrosodiphenylamine		0.632	0.618	0.597	0.578	0.577	0.591	4.4
2,4,6-Tribromophenol		0.222	0.209	0.220	0.216	0.210	0.214	2.5
4-Bromophenyl-phenylether		0.218	0.215	0.206	0.200	0.200	0.206	3.8
Hexachlorobenzene		0.257	0.240	0.239	0.233	0.232	0.238	3.7
Atrazine		0.181	0.171	0.131	0.140	0.147	0.166	16.4
Pentachlorophenol			0.071	0.090	0.116	0.115	0.105	19.2
Phenanthrene		1.074	1.020	0.970	0.944	0.925	0.961	6.9
Anthracene		1.038	0.994	0.958	0.925	0.905	0.940	6.5
Carbazole		1.004	0.949	0.930	0.889	0.876	0.905	6.7
Di-n-butylphthalate		1.144	1.075	1.074	1.023	1.021	1.044	5.6
Fluoranthene		1.186	1.111	1.114	1.014	0.999	1.044	9.1
Pyrene		1.905	1.801	1.897	1.853	1.791	1.849	2.8
Terphenyl-d14		1.351	1.254	1.308	1.283	1.228	1.284	3.3
Butylbenzylphthalate		0.676	0.644	0.694	0.679	0.655	0.666	3.0
3,3-Dichlorobenzidine		0.375	0.383	0.393	0.413	0.406	0.397	4.0
Benzo(a)anthracene		1.409	1.319	1.379	1.286	1.295	1.324	4.3
Chrysene		1.354	1.263	1.218	1.201	1.137	1.211	6.5
Bis(2-ethylhexyl)phthalate		0.904	0.828	0.862	0.833	0.824	0.841	4.0
Di-n-octyl phthalate		1.198	1.133	1.147	1.132	1.147	1.150	2.3
Benzo(b)fluoranthene		1.347	1.256	1.380	1.186	1.248	1.256	6.4
Benzo(k)fluoranthene		1.243	1.236	1.059	1.101	1.022	1.099	9.3
Benzo(a)pyrene		1.062	1.050	1.063	1.007	0.998	1.021	3.8
Indeno(1,2,3-cd)pyrene		1.209	1.283	1.299	1.304	1.306	1.303	4.5

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: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: BNA_F Calibration Date(s): 11/21/2024 11/21/2024

Calibration Time(s): 11:13 14:18

LAB FILE ID: RRF2.5 = BF140528.D RRF005 = BF140529.D RRF010 = BF140530.D
RRF020 = BF140531.D RRF040 = BF140532.D RRF050 = BF140533.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.015	1.038	1.063	1.068	1.075	1.067	3.9
Benzo(g,h,i)perylene		1.033	1.090	1.078	1.085	1.094	1.089	3.5
1,2,4,5-Tetrachlorobenzene		0.635	0.604	0.606	0.563	0.561	0.586	5.0
1,4-Dioxane		0.501	0.502	0.576	0.489	0.452	0.493	8.5
2,3,4,6-Tetrachlorophenol		0.307	0.296	0.308	0.312	0.305	0.306	1.7

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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140528.D 5 =BF140529.D 10 =BF140530.D 20 =BF140531.D 40 =BF140532.D 50 =BF140533.D 60 =BF140534.D 80 =BF1405
35.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.501	0.502	0.576	0.489	0.452	0.454	0.477	0.493	8.46
3)		Pyridine		0.981	1.019	1.121	1.192	1.062	1.087	1.128	1.084	6.54
4)		n-Nitrosodimet...		0.616	0.611	0.661	0.648	0.632	0.632	0.660	0.637	3.15
5)	S	2-Fluorophenol		1.261	1.233	1.202	1.174	1.117	1.127	1.091	1.172	5.40
6)		Aniline		1.159	1.195	1.133	1.251	1.042	1.020	0.835	1.091	12.73
7)	S	Phenol-d6		1.729	1.617	1.559	1.602	1.465	1.470	1.407	1.550	7.14
8)		2-Chlorophenol		1.385	1.328	1.278	1.283	1.201	1.208	1.145	1.261	6.51
9)		Benzaldehyde			1.007	0.970	0.738	0.752	0.635		0.820	19.55
10)	C	Phenol		1.723	1.648	1.620	1.667	1.514	1.490	1.417	1.583	6.98
11)		bis(2-Chloroet...		1.292	1.242	1.214	1.246	1.146	1.200	1.138	1.211	4.56
12)		1,3-Dichlorobe...		1.600	1.493	1.433	1.399	1.345	1.361	1.288	1.417	7.31
13)	C	1,4-Dichlorobe...		1.613	1.501	1.456	1.428	1.358	1.372	1.314	1.435	7.04
14)		1,2-Dichlorobe...		1.503	1.434	1.375	1.355	1.268	1.266	1.210	1.344	7.71
15)		Benzyl Alcohol		1.234	1.174	1.161	1.224	1.113	1.090	1.048	1.149	5.98
16)		2,2'-oxybis(1-...		1.650	1.480	1.434	1.463	1.335	1.377	1.276	1.431	8.43
17)		2-Methylphenol		1.121	1.034	1.033	1.042	0.956	0.959	0.922	1.009	6.74
18)		Hexachloroethane		0.598	0.545	0.549	0.537	0.514	0.510	0.499	0.536	6.17
19)	P	n-Nitroso-di-n...	0.972	1.002	0.949	0.916	0.946	0.856	0.857	0.829	0.916	6.82
20)		3+4-Methylphenols		1.495	1.362	1.305	1.347	1.211	1.209	1.154	1.298	8.98
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.536	0.511	0.494	0.481	0.463	0.460	0.468	0.488	5.75
23)	S	Nitrobenzene-d5		0.409	0.403	0.395	0.392	0.377	0.377	0.383	0.391	3.21
24)		Nitrobenzene		0.439	0.409	0.409	0.401	0.388	0.391	0.392	0.404	4.35
25)		Isophorone		0.694	0.654	0.657	0.662	0.629	0.634	0.635	0.652	3.44
26)	C	2-Nitrophenol		0.178	0.172	0.185	0.180	0.178	0.180	0.180	0.179	2.17
27)		2,4-Dimethylph...		0.221	0.214	0.213	0.224	0.204	0.207	0.218	0.214	3.40
28)		bis(2-Chloroet...		0.428	0.408	0.403	0.397	0.378	0.384	0.383	0.397	4.37
29)	C	2,4-Dichloroph...		0.301	0.291	0.290	0.282	0.277	0.274	0.271	0.284	3.82
30)		1,2,4-Trichlor...		0.342	0.338	0.332	0.317	0.317	0.312	0.312	0.324	3.91
31)		Naphthalene		1.116	1.075	1.062	1.013	0.993	0.983	0.970	1.030	5.32
32)		Benzoic acid			0.101	0.126	0.177	0.185	0.192	0.202	0.164	24.72
33)		4-Chloroaniline		0.308	0.318	0.309	0.325	0.303	0.308	0.289	0.308	3.71
34)	C	Hexachlorobuta...		0.227	0.225	0.219	0.212	0.209	0.207	0.204	0.215	4.15
35)		Caprolactam		0.091	0.091	0.091	0.090	0.085	0.085	0.083	0.088	3.99
36)	C	4-Chloro-3-met...		0.348	0.318	0.317	0.327	0.307	0.307	0.301	0.318	4.95
37)		2-Methylnaphth...		0.724	0.680	0.669	0.650	0.623	0.620	0.615	0.654	6.09
38)		1-Methylnaphth...		0.707	0.665	0.659	0.638	0.611	0.608	0.601	0.641	5.98

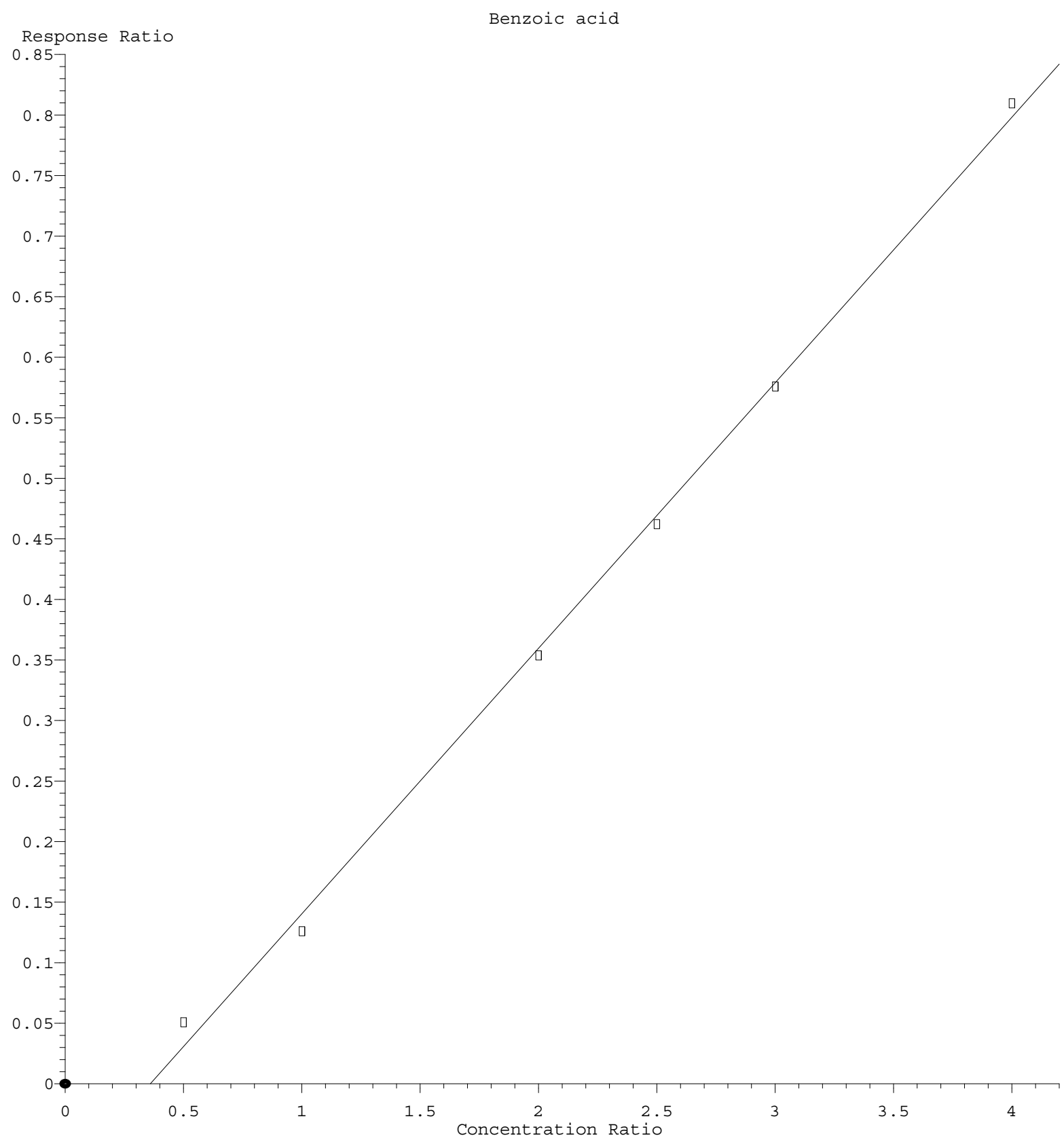
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.635	0.604	0.606	0.563	0.561	0.565	0.565	0.586	5.02
41)	P	Hexachlorocycl...		0.055	0.090	0.114	0.121	0.129	0.133	0.107	27.80
42)	S	2,4,6-Tribromo...	0.222	0.209	0.220	0.216	0.210	0.210	0.211	0.214	2.52
43)	C	2,4,6-Trichlor...	0.384	0.358	0.375	0.366	0.364	0.360	0.365	0.367	2.45
44)		2,4,5-Trichlor...	0.402	0.396	0.410	0.404	0.390	0.397	0.392	0.399	1.80
45)	S	2-Fluorobiphenyl	1.550	1.402	1.423	1.291	1.255	1.240	1.235	1.342	8.90
46)		1,1'-Biphenyl	1.666	1.530	1.563	1.447	1.427	1.418	1.403	1.493	6.50
47)		2-Chloronaphth...	1.251	1.145	1.162	1.106	1.082	1.084	1.091	1.131	5.39
48)		2-Nitroaniline	0.367	0.351	0.379	0.367	0.363	0.357	0.359	0.363	2.50
49)		Acenaphthylene	1.890	1.765	1.808	1.662	1.628	1.623	1.590	1.710	6.58
50)		Dimethylphthalate	1.455	1.329	1.346	1.299	1.267	1.270	1.254	1.317	5.28
51)		2,6-Dinitrotol...	0.314	0.299	0.307	0.301	0.291	0.293	0.286	0.299	3.24
52)	C	Acenaphthene	1.182	1.110	1.134	1.063	1.052	1.037	1.026	1.086	5.29
53)		3-Nitroaniline	0.307	0.297	0.309	0.300	0.289	0.281	0.262	0.292	5.71
54)	P	2,4-Dinitrophenol		0.057	0.089	0.140	0.145	0.150	0.154	0.122	32.70
55)		Dibenzofuran	1.898	1.739	1.739	1.622	1.559	1.531	1.509	1.657	8.53
56)	P	4-Nitrophenol		0.160	0.195	0.207	0.212	0.214	0.208	0.199	10.31
57)		2,4-Dinitrotol...	0.403	0.403	0.416	0.404	0.386	0.389	0.379	0.397	3.24
58)		Fluorene	1.509	1.409	1.399	1.295	1.263	1.224	1.210	1.330	8.37
59)		2,3,4,6-Tetrac...	0.307	0.296	0.308	0.312	0.305	0.305	0.312	0.306	1.72
60)		Diethylphthalate	1.495	1.375	1.393	1.311	1.292	1.268	1.234	1.338	6.66
61)		4-Chlorophenyl...	0.739	0.682	0.685	0.639	0.619	0.605	0.599	0.653	7.90
62)		4-Nitroaniline	0.307	0.301	0.315	0.312	0.310	0.309	0.291	0.306	2.67
63)		Azobenzene	1.406	1.320	1.320	1.235	1.205	1.206	1.179	1.267	6.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.073	0.090	0.110	0.110	0.117	0.113	0.102	16.74
66)	c	n-Nitrosodiphe...	0.632	0.618	0.597	0.578	0.577	0.580	0.558	0.591	4.39
67)		4-Bromophenyl-...	0.218	0.215	0.206	0.200	0.200	0.205	0.198	0.206	3.79
68)		Hexachlorobenzene	0.257	0.240	0.239	0.233	0.232	0.236	0.232	0.238	3.65
69)		Atrazine	0.181	0.171	0.131	0.140	0.147	0.196	0.198	0.166	16.37
70)	C	Pentachlorophenol		0.071	0.090	0.116	0.115	0.121	0.118	0.105	19.24
71)		Phenanthrene	1.074	1.020	0.970	0.944	0.925	0.916	0.881	0.961	6.87
72)		Anthracene	1.038	0.994	0.958	0.925	0.905	0.904	0.859	0.940	6.47
73)		Carbazole	1.004	0.949	0.930	0.889	0.876	0.862	0.821	0.905	6.75
74)		Di-n-butylphth...	1.144	1.075	1.074	1.023	1.021	1.007	0.967	1.044	5.56
75)	C	Fluoranthene	1.186	1.111	1.114	1.014	0.999	0.962	0.921	1.044	9.11
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.268	0.422	0.296	0.575	0.734	1.025	0.751	0.581	47.31
78)		Pyrene	1.905	1.801	1.897	1.853	1.791	1.898	1.799	1.849	2.79
79)	S	Terphenyl-d14	1.351	1.254	1.308	1.283	1.228	1.313	1.254	1.284	3.31
80)		Butylbenzylpht...	0.676	0.644	0.694	0.679	0.655	0.674	0.641	0.666	2.96
81)		Benzo(a)anthra...	1.409	1.319	1.379	1.286	1.295	1.338	1.242	1.324	4.30
82)		3,3'-Dichlorob...	0.375	0.383	0.393	0.413	0.406	0.419	0.394	0.397	4.03
83)		Chrysene	1.354	1.263	1.218	1.201	1.137	1.173	1.128	1.211	6.50
84)		Bis(2-ethylhex...	0.904	0.828	0.862	0.833	0.824	0.841	0.797	0.841	4.00
85)	c	Di-n-octyl pht...	1.198	1.133	1.147	1.132	1.147	1.169	1.121	1.150	2.29

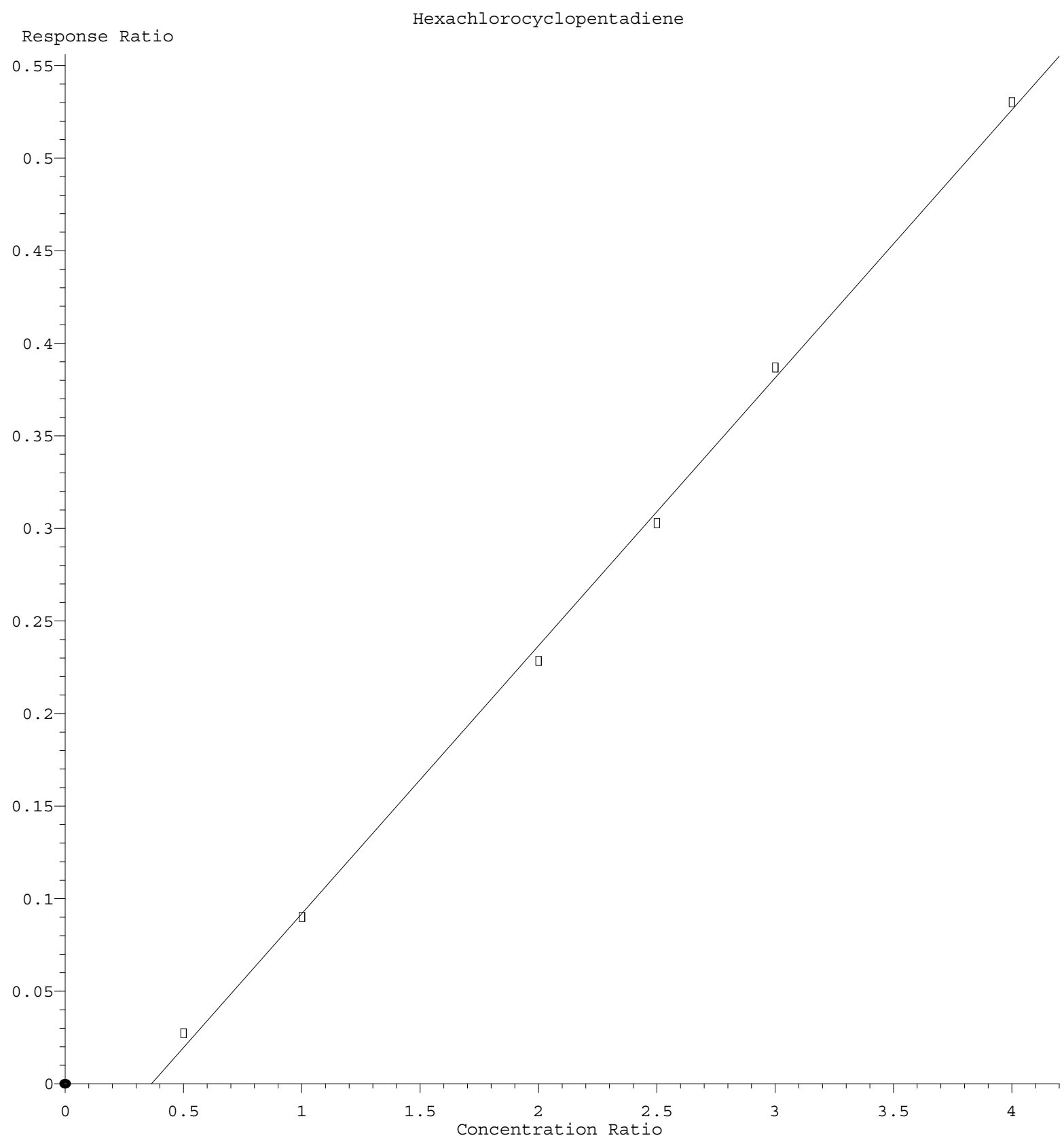
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.283	1.299	1.304	1.306	1.409	1.313	1.303	4.51
88)		Benzo(b)fluora...	1.347	1.256	1.380	1.186	1.248	1.207	1.168	1.256	6.41
89)		Benzo(k)fluora...	1.243	1.236	1.059	1.101	1.022	1.055	0.980	1.099	9.34
90)	C	Benzo(a)pyrene	1.062	1.050	1.063	1.007	0.998	1.014	0.957	1.021	3.81
91)		Dibenzo(a,h)an...	1.015	1.038	1.063	1.068	1.075	1.149	1.064	1.067	3.90
92)		Benzo(g,h,i)pe...	1.033	1.090	1.078	1.085	1.094	1.161	1.083	1.089	3.48

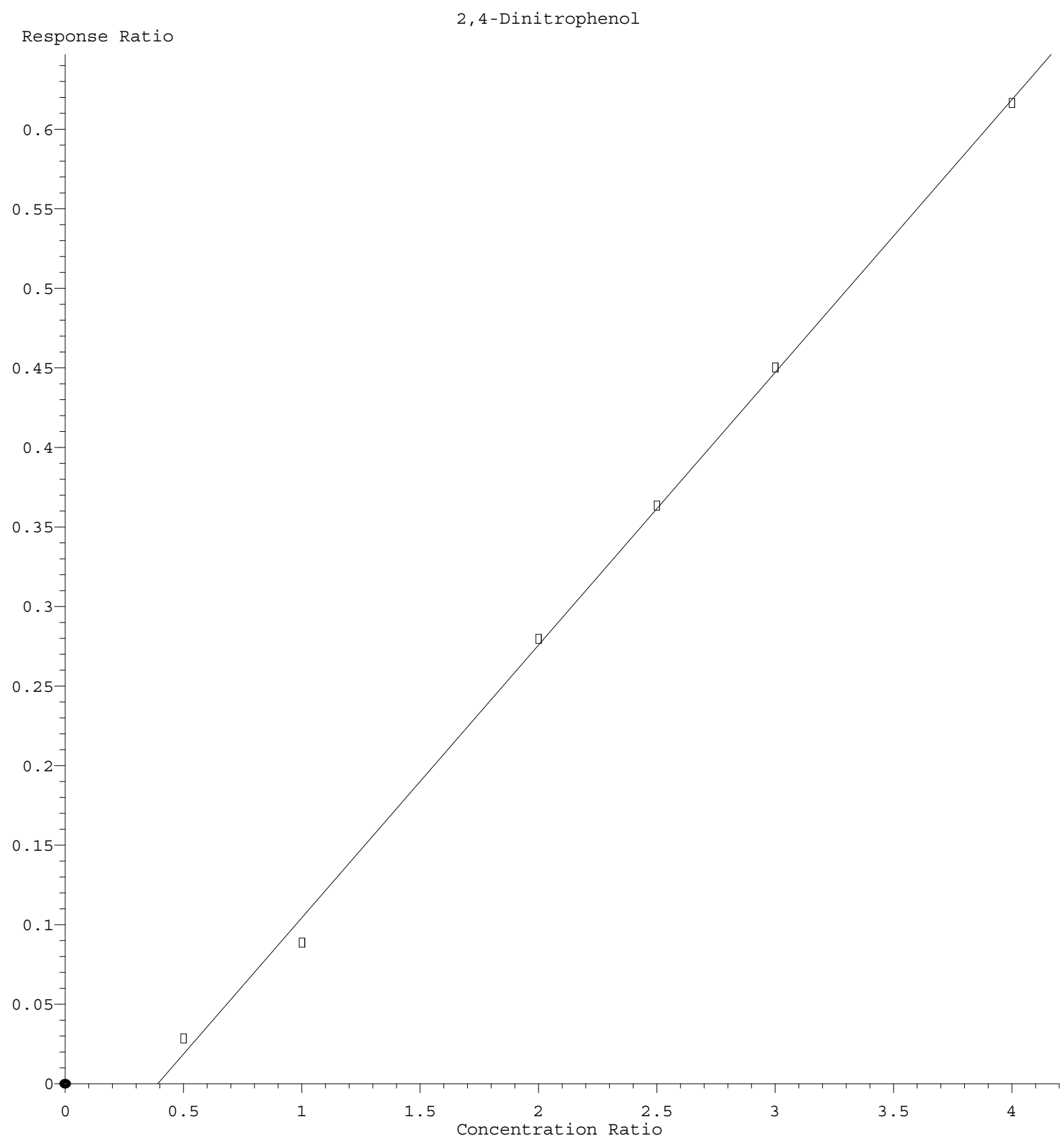
(#) = Out of Range



Response = 2.193e-001 * Amt - 7.887e-002
Coef of Det (r^2) = 0.997922 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF112124.M
Calibration Table Last Updated: Thu Nov 21 15:23:48 2024



Response = 1.448e-001 * Amt - 5.280e-002
Coef of Det (r^2) = 0.998763 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF112124.M
Calibration Table Last Updated: Thu Nov 21 15:23:48 2024



Response = 1.715e-001 * Amt - 6.708e-002
Coef of Det (r^2) = 0.998475 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF112124.M
Calibration Table Last Updated: Thu Nov 21 15:23:48 2024

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140528.D
Acq On : 21 Nov 2024 11:13
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 21 15:08:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	98970	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	372671	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	211504	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	393771	20.000	ng	0.00
76) Chrysene-d12	14.045	240	232997	20.000	ng	0.00
86) Perylene-d12	15.539	264	178104	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...	7.269	70	12029	2.654	ng	98

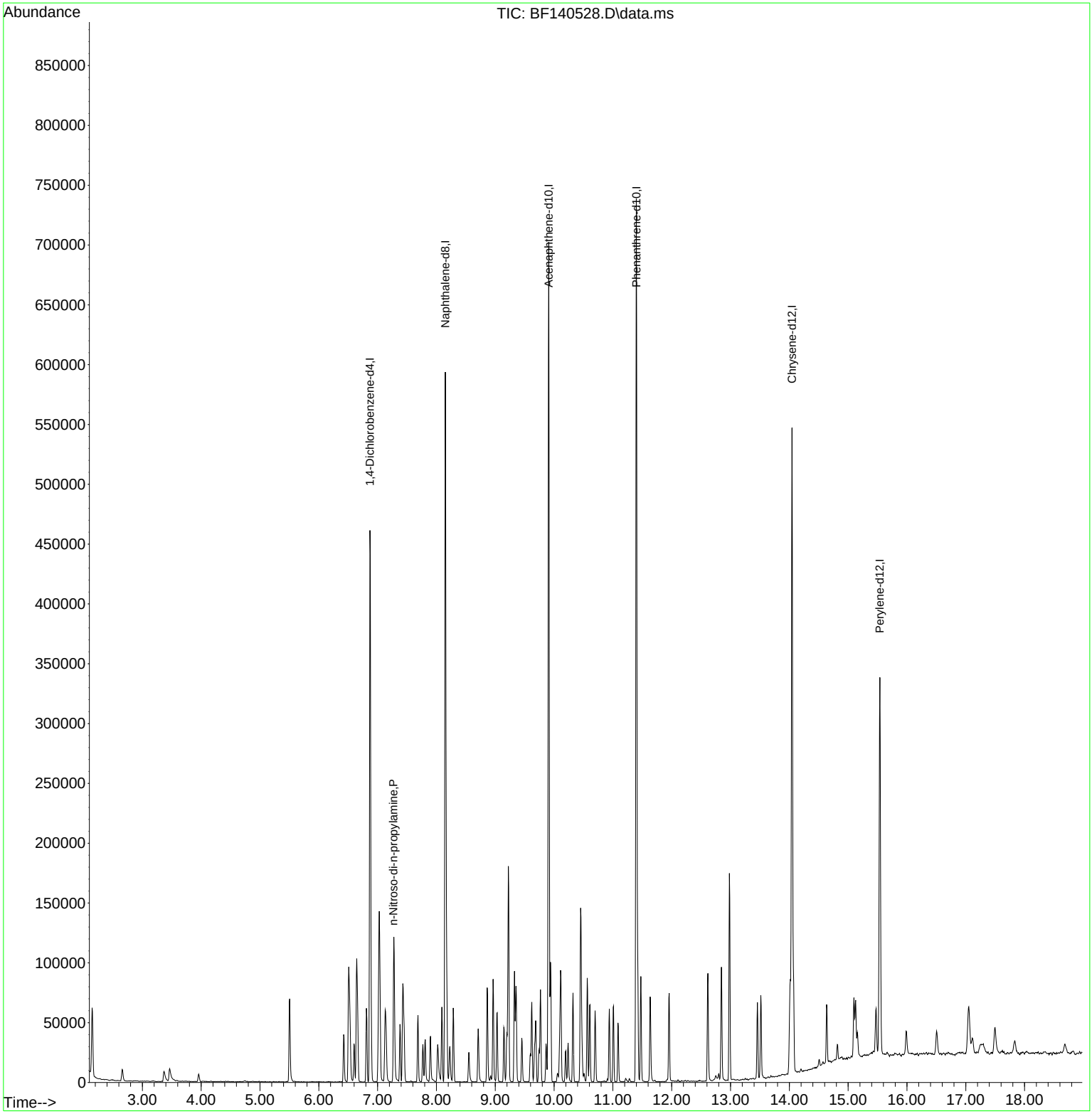
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140528.D
Acq On : 21 Nov 2024 11:13
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 21 15:08:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140529.D
Acq On : 21 Nov 2024 11:39
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Nov 21 15:09:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	104134	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	395935	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	219293	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	428851	20.000	ng		0.00
76) Chrysene-d12	14.045	240	270381	20.000	ng		0.00
86) Perylene-d12	15.533	264	205006	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.499	112	65659	10.758	ng		0.00
7) Phenol-d6	6.504	99	90026	11.158	ng		-0.01
23) Nitrobenzene-d5	7.428	82	80941	10.457	ng		-0.01
42) 2,4,6-Tribromophenol	10.698	330	24342	10.379	ng		0.00
45) 2-Fluorobiphenyl	9.222	172	170000	11.550	ng		-0.01
79) Terphenyl-d14	12.980	244	182707	10.522	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.646	88	13033	5.079	ng		99
3) Pyridine	3.440	79	25544	4.524	ng		98
4) n-Nitrosodimethylamine	3.358	42	16043	4.835	ng	#	98
6) Aniline	6.534	93	30162	5.311	ng	#	85
8) 2-Chlorophenol	6.657	128	36046	5.490	ng		99
10) Phenol	6.522	94	44852	5.443	ng		94
11) bis(2-Chloroethyl)ether	6.604	93	33630	5.333	ng		99
12) 1,3-Dichlorobenzene	6.810	146	41643	5.644	ng		97
13) 1,4-Dichlorobenzene	6.887	146	42002	5.622	ng		98
14) 1,2-Dichlorobenzene	7.040	146	39138	5.591	ng		97
15) Benzyl Alcohol	7.010	79	32114	5.367	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.146	45	42946	5.765	ng		79
17) 2-Methylphenol	7.128	107	29188	5.553	ng		96
18) Hexachloroethane	7.381	117	15560	5.577	ng		97
19) n-Nitroso-di-n-propyla...	7.275	70	26085	5.470	ng		99
20) 3+4-Methylphenols	7.281	107	38915	5.760	ng		97
22) Acetophenone	7.275	105	53017	5.492	ng		95
24) Nitrobenzene	7.451	77	43460	5.432	ng		99
25) Isophorone	7.687	82	68701	5.321	ng		100
26) 2-Nitrophenol	7.769	139	17600	4.964	ng		100
27) 2,4-Dimethylphenol	7.804	122	21843	5.149	ng		97
28) bis(2-Chloroethoxy)met...	7.898	93	42337	5.383	ng		99
29) 2,4-Dichlorophenol	8.022	162	29819	5.305	ng		95
30) 1,2,4-Trichlorobenzene	8.092	180	33886	5.280	ng		99
31) Naphthalene	8.175	128	110501	5.418	ng		99
33) 4-Chloroaniline	8.228	127	30440	4.985	ng		97
34) Hexachlorobutadiene	8.287	225	22446	5.280	ng		99
35) Caprolactam	8.557	113	8985	5.165	ng		99
36) 4-Chloro-3-methylphenol	8.710	107	34404	5.467	ng		99
37) 2-Methylnaphthalene	8.863	142	71706	5.536	ng		100
38) 1-Methylnaphthalene	8.963	142	69955	5.510	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	34836	5.426	ng		99
43) 2,4,6-Trichlorophenol	9.145	196	21046	5.224	ng		99
44) 2,4,5-Trichlorophenol	9.192	196	22061	5.046	ng		99
46) 1,1'-Biphenyl	9.328	154	91336	5.579	ng		99
47) 2-Chloronaphthalene	9.351	162	68559	5.526	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140529.D
Acq On : 21 Nov 2024 11:39
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Nov 21 15:09:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

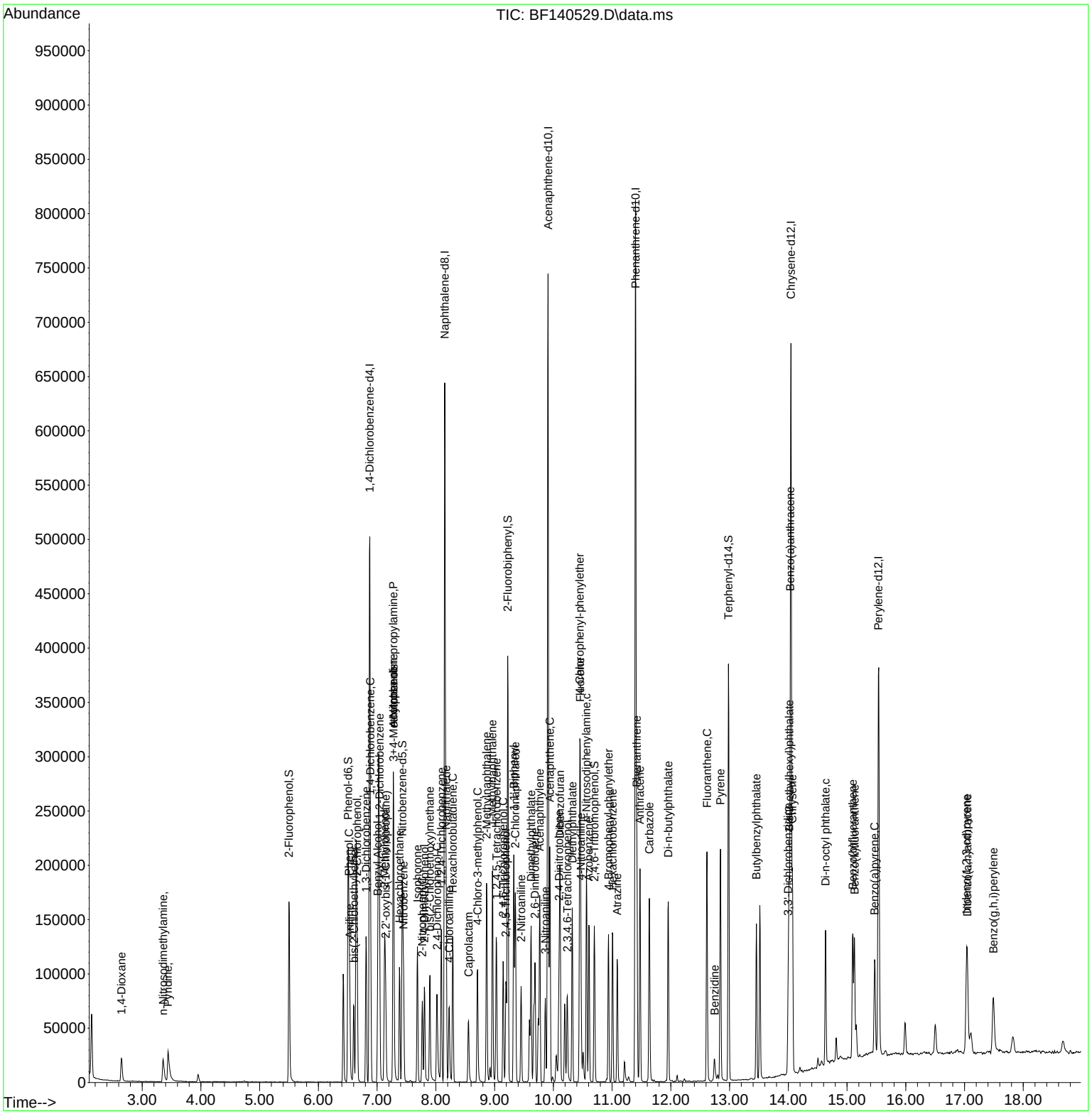
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Nitroaniline	9.451	65	20109	5.050	ng		99
49) Acenaphthylene	9.769	152	103605	5.527	ng		99
50) Dimethylphthalate	9.622	163	79770	5.523	ng		98
51) 2,6-Dinitrotoluene	9.687	165	17217	5.256	ng		99
52) Acenaphthene	9.939	154	64777	5.337	ng		97
53) 3-Nitroaniline	9.863	138	16842	5.257	ng		98
55) Dibenzofuran	10.116	168	104044	5.727	ng		96
57) 2,4-Dinitrotoluene	10.098	165	22110	5.079	ng		98
58) Fluorene	10.457	166	82732	5.674	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	16825	5.007	ng	#	96
60) Diethylphthalate	10.322	149	81981	5.587	ng		100
61) 4-Chlorophenyl-phenyle...	10.451	204	40537	5.665	ng		95
62) 4-Nitroaniline	10.469	138	16848	5.014	ng		98
63) Azobenzene	10.604	77	77108	5.549	ng		96
66) n-Nitrosodiphenylamine	10.563	169	67794	5.346	ng		99
67) 4-Bromophenyl-phenylether	10.939	248	23355	5.288	ng		99
68) Hexachlorobenzene	11.010	284	27532	5.384	ng		99
69) Atrazine	11.086	200	19452	5.452	ng		99
71) Phenanthrene	11.422	178	115121	5.584	ng		98
72) Anthracene	11.475	178	111316	5.520	ng		100
73) Carbazole	11.633	167	107643	5.549	ng		98
74) Di-n-butylphthalate	11.957	149	122687	5.478	ng		99
75) Fluoranthene	12.616	202	127194	5.683	ng		100
77) Benzidine	12.745	184	18105	2.303	ng		99
78) Pyrene	12.845	202	128760	5.150	ng		98
80) Butylbenzylphthalate	13.457	149	45690	5.073	ng		99
81) Benzo(a)anthracene	14.033	228	95229	5.321	ng		99
82) 3,3'-Dichlorobenzidine	13.998	252	25321	4.712	ng		97
83) Chrysene	14.069	228	91528	5.593	ng		97
84) Bis(2-ethylhexyl)phtha...	14.016	149	61082	5.371	ng		100
85) Di-n-octyl phthalate	14.633	149	80990	5.211	ng		99
87) Indeno(1,2,3-cd)pyrene	17.033	276	61952	4.637	ng		97
88) Benzo(b)fluoranthene	15.098	252	69048	5.362	ng		98
89) Benzo(k)fluoranthene	15.127	252	63717	5.655	ng		96
90) Benzo(a)pyrene	15.469	252	54423	5.198	ng		97
91) Dibenzo(a,h)anthracene	17.051	278	52029	4.755	ng		99
92) Benzo(g,h,i)perylene	17.492	276	52919	4.740	ng		97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140529.D
Acq On : 21 Nov 2024 11:39
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Nov 21 15:09:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140530.D
Acq On : 21 Nov 2024 12:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:10:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	101758	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	377828	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	213774	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	399362	20.000	ng		0.00
76) Chrysene-d12	14.045	240	256196	20.000	ng		0.00
86) Perylene-d12	15.533	264	194024	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	125454	21.035	ng		0.00
7) Phenol-d6	6.504	99	164515	20.866	ng		-0.01
23) Nitrobenzene-d5	7.428	82	152410	20.633	ng		-0.01
42) 2,4,6-Tribromophenol	10.698	330	44626	19.519	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	299817	20.896	ng		0.00
79) Terphenyl-d14	12.980	244	321362	19.532	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.646	88	25524	10.179	ng		99
3) Pyridine	3.428	79	51851	9.398	ng		96
4) n-Nitrosodimethylamine	3.357	42	31093	9.589	ng		99
6) Aniline	6.534	93	60808	10.957	ng	#	79
8) 2-Chlorophenol	6.657	128	67572	10.531	ng		98
9) Benzaldehyde	6.422	77	51225	12.273	ng		99
10) Phenol	6.522	94	83830	10.411	ng		94
11) bis(2-Chloroethyl)ether	6.604	93	63186	10.255	ng		99
12) 1,3-Dichlorobenzene	6.810	146	75941	10.533	ng		99
13) 1,4-Dichlorobenzene	6.887	146	76389	10.464	ng		99
14) 1,2-Dichlorobenzene	7.040	146	72962	10.666	ng		100
15) Benzyl Alcohol	7.010	79	59748	10.218	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	75295	10.344	ng		79
17) 2-Methylphenol	7.128	107	52599	10.241	ng		94
18) Hexachloroethane	7.381	117	27715	10.165	ng		98
19) n-Nitroso-di-n-propyla...	7.275	70	48309	10.367	ng		98
20) 3+4-Methylphenols	7.281	107	69290	10.496	ng		98
22) Acetophenone	7.275	105	96618	10.489	ng		97
24) Nitrobenzene	7.451	77	77259	10.120	ng		99
25) Isophorone	7.687	82	123528	10.026	ng		99
26) 2-Nitrophenol	7.769	139	32564	9.625	ng		98
27) 2,4-Dimethylphenol	7.804	122	40421	9.986	ng		99
28) bis(2-Chloroethoxy)met...	7.898	93	77116	10.274	ng		99
29) 2,4-Dichlorophenol	8.016	162	55037	10.261	ng		99
30) 1,2,4-Trichlorobenzene	8.092	180	63769	10.413	ng		98
31) Naphthalene	8.175	128	203054	10.434	ng		99
32) Benzoic acid	7.887	122	19174m	11.820	ng		
33) 4-Chloroaniline	8.222	127	60102	10.315	ng		99
34) Hexachlorobutadiene	8.287	225	42479	10.472	ng		98
35) Caprolactam	8.563	113	17126	10.317	ng		96
36) 4-Chloro-3-methylphenol	8.704	107	60104	10.008	ng		99
37) 2-Methylnaphthalene	8.863	142	128393	10.387	ng		100
38) 1-Methylnaphthalene	8.963	142	125672	10.372	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	64508	10.308	ng		99
41) Hexachlorocyclopentadiene	9.016	237	5836	11.063	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	38279	9.748	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140530.D
Acq On : 21 Nov 2024 12:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:10:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	42321	9.930	ng	99
46) 1,1'-Biphenyl	9.328	154	163500	10.244	ng	99
47) 2-Chloronaphthalene	9.351	162	122350	10.117	ng	99
48) 2-Nitroaniline	9.451	65	37481	9.655	ng	98
49) Acenaphthylene	9.769	152	188676	10.326	ng	99
50) Dimethylphthalate	9.622	163	142079	10.092	ng	100
51) 2,6-Dinitrotoluene	9.692	165	31999	10.021	ng	94
52) Acenaphthene	9.939	154	118691	10.031	ng	99
53) 3-Nitroaniline	9.863	138	31781	10.177	ng	96
54) 2,4-Dinitrophenol	9.981	184	6086	11.143	ng	98
55) Dibenzofuran	10.116	168	185902	10.497	ng	99
56) 4-Nitrophenol	10.039	139	17052	8.006	ng	96
57) 2,4-Dinitrotoluene	10.098	165	43030	10.140	ng	95
58) Fluorene	10.457	166	150592	10.594	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	31672	9.670	ng	98
60) Diethylphthalate	10.322	149	146994	10.276	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	72915	10.452	ng	97
62) 4-Nitroaniline	10.469	138	32193	9.829	ng	96
63) Azobenzene	10.610	77	141049	10.412	ng	98
65) 4,6-Dinitro-2-methylph...	10.510	198	14572	7.140	ng	93
66) n-Nitrosodiphenylamine	10.563	169	123384	10.447	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	42955	10.444	ng	98
68) Hexachlorobenzene	11.010	284	47993	10.078	ng	97
69) Atrazine	11.092	200	34193	10.292	ng	100
70) Pentachlorophenol	11.210	266	14110	6.732	ng	97
71) Phenanthrene	11.422	178	203602	10.606	ng	99
72) Anthracene	11.475	178	198430	10.567	ng	100
73) Carbazole	11.633	167	189597	10.495	ng	100
74) Di-n-butylphthalate	11.957	149	214564	10.288	ng	99
75) Fluoranthene	12.616	202	221773	10.640	ng	99
77) Benzidine	12.739	184	54022	7.252	ng	100
78) Pyrene	12.845	202	230747	9.741	ng	98
80) Butylbenzylphthalate	13.457	149	82557	9.674	ng	100
81) Benzo(a)anthracene	14.033	228	168988	9.964	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	49053	9.634	ng	100
83) Chrysene	14.069	228	161811	10.435	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	106093	9.846	ng	100
85) Di-n-octyl phthalate	14.633	149	145085	9.852	ng	100
87) Indeno(1,2,3-cd)pyrene	17.033	276	124455	9.843	ng	99
88) Benzo(b)fluoranthene	15.098	252	121884	10.001	ng	99
89) Benzo(k)fluoranthene	15.127	252	119878	11.241	ng	100
90) Benzo(a)pyrene	15.468	252	101824	10.276	ng	97
91) Dibenzo(a,h)anthracene	17.051	278	100656	9.720	ng	99
92) Benzo(g,h,i)perylene	17.492	276	105771	10.010	ng	99

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

ICAL Form

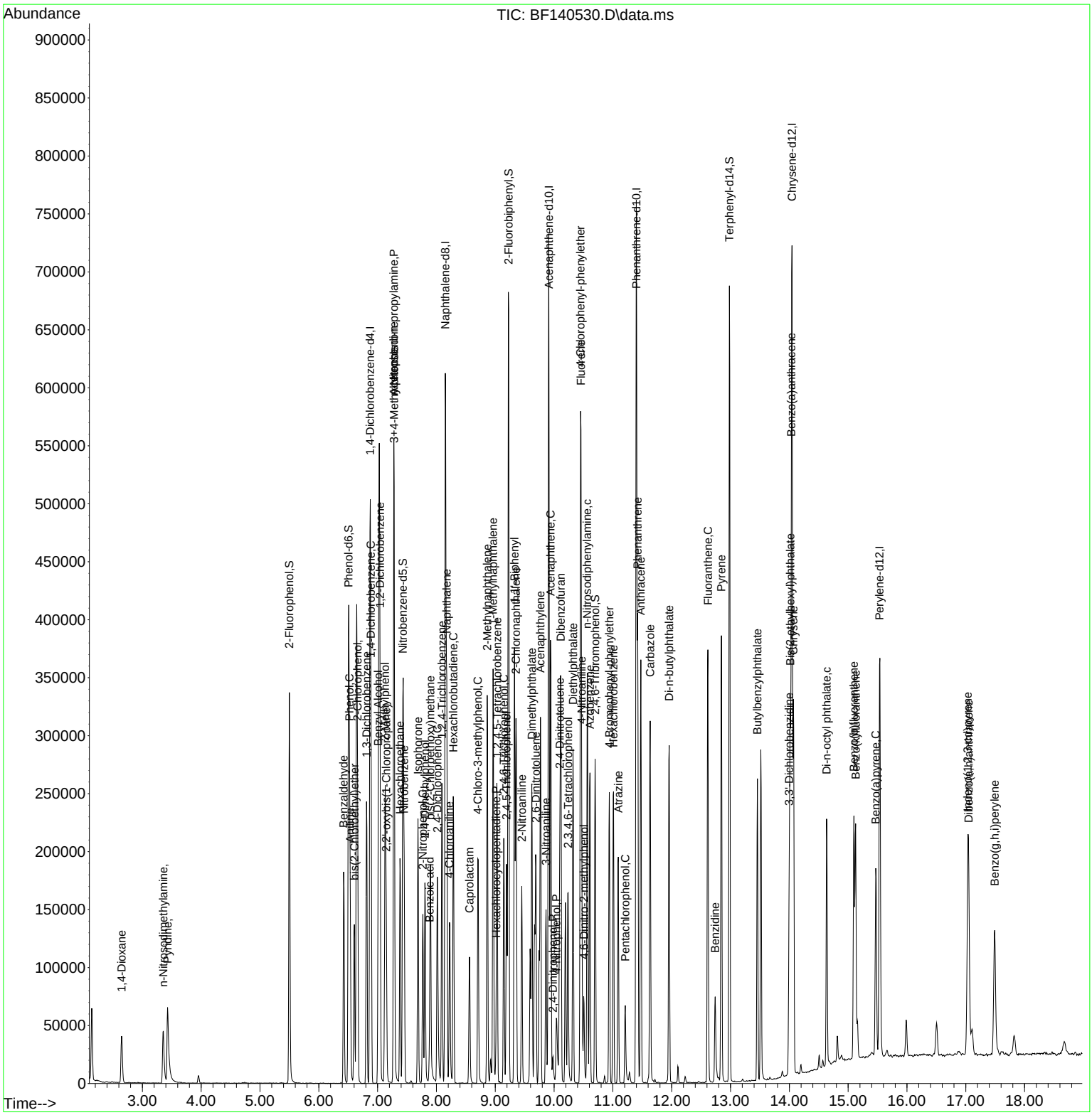
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140530.D
Acq On : 21 Nov 2024 12:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 15:10:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140531.D
Acq On : 21 Nov 2024 12:32
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:11:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	99570	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	364692	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	198805	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	382041	20.000	ng	0.00
76) Chrysene-d12	14.051	240	225903	20.000	ng	0.00
86) Perylene-d12	15.533	264	173612	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	239365	41.017	ng	0.00
7) Phenol-d6	6.510	99	310375	40.230	ng	0.00
23) Nitrobenzene-d5	7.434	82	288201	40.422	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	87426	41.118	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	565607	42.389	ng	0.00
79) Terphenyl-d14	12.986	244	590771	40.721	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	57318	23.361	ng	98
3) Pyridine	3.422	79	111651	20.682	ng	98
4) n-Nitrosodimethylamine	3.357	42	65851	20.754	ng	95
6) Aniline	6.534	93	112828	20.778	ng	88
8) 2-Chlorophenol	6.663	128	127220	20.263	ng	96
9) Benzaldehyde	6.422	77	96584	23.648	ng	97
10) Phenol	6.522	94	161262	20.467	ng	94
11) bis(2-Chloroethyl)ether	6.604	93	120837	20.042	ng	100
12) 1,3-Dichlorobenzene	6.816	146	142704	20.228	ng	99
13) 1,4-Dichlorobenzene	6.893	146	144955	20.293	ng	100
14) 1,2-Dichlorobenzene	7.045	146	136939	20.459	ng	99
15) Benzyl Alcohol	7.010	79	115602	20.205	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.146	45	142742	20.040	ng	81
17) 2-Methylphenol	7.128	107	102895	20.473	ng	94
18) Hexachloroethane	7.381	117	54624	20.475	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	91173	19.996	ng	97
20) 3+4-Methylphenols	7.281	107	129954	20.117	ng	94
22) Acetophenone	7.281	105	180222	20.270	ng	100
24) Nitrobenzene	7.451	77	148986	20.218	ng	100
25) Isophorone	7.687	82	239713	20.158	ng	98
26) 2-Nitrophenol	7.769	139	67593	20.699	ng	100
27) 2,4-Dimethylphenol	7.804	122	77504	19.836	ng	99
28) bis(2-Chloroethoxy)met...	7.898	93	146899	20.277	ng	100
29) 2,4-Dichlorophenol	8.016	162	105906	20.456	ng	98
30) 1,2,4-Trichlorobenzene	8.092	180	120949	20.461	ng	100
31) Naphthalene	8.175	128	387236	20.614	ng	99
32) Benzoic acid	7.904	122	45935	18.678	ng	99
33) 4-Chloroaniline	8.222	127	112719	20.042	ng	100
34) Hexachlorobutadiene	8.287	225	79980	20.427	ng	99
35) Caprolactam	8.581	113	33020	20.609	ng	94
36) 4-Chloro-3-methylphenol	8.710	107	115782	19.974	ng	98
37) 2-Methylnaphthalene	8.863	142	243949	20.446	ng	99
38) 1-Methylnaphthalene	8.963	142	240502	20.564	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	120444	20.695	ng	100
41) Hexachlorocyclopentadiene	9.016	237	17909	19.734	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	74538	20.410	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140531.D
Acq On : 21 Nov 2024 12:32
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:11:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	81588	20.585	ng	98
46) 1,1'-Biphenyl	9.328	154	310749	20.936	ng	100
47) 2-Chloronaphthalene	9.357	162	231066	20.545	ng	99
48) 2-Nitroaniline	9.451	65	75343	20.871	ng	99
49) Acenaphthylene	9.769	152	359483	21.155	ng	100
50) Dimethylphthalate	9.628	163	267629	20.440	ng	99
51) 2,6-Dinitrotoluene	9.692	165	61076	20.568	ng	97
52) Acenaphthene	9.945	154	225540m	20.497	ng	
53) 3-Nitroaniline	9.863	138	61362	21.128	ng	96
54) 2,4-Dinitrophenol	9.975	184	17628	18.164	ng	98
55) Dibenzofuran	10.116	168	345729	20.992	ng	100
56) 4-Nitrophenol	10.034	139	38787	19.582	ng	97
57) 2,4-Dinitrotoluene	10.098	165	82706	20.957	ng	96
58) Fluorene	10.457	166	278115	21.038	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	61142	20.072	ng	98
60) Diethylphthalate	10.328	149	276859	20.812	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	136189	20.992	ng	98
62) 4-Nitroaniline	10.475	138	62610	20.555	ng	99
63) Azobenzene	10.610	77	262444	20.833	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	34412	17.627	ng	97
66) n-Nitrosodiphenylamine	10.569	169	228075	20.187	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	78863	20.044	ng	98
68) Hexachlorobenzene	11.010	284	91363	20.055	ng	97
69) Atrazine	11.092	200	50070	15.754	ng	99
70) Pentachlorophenol	11.210	266	34309	17.111	ng	97
71) Phenanthrene	11.428	178	370424	20.171	ng	99
72) Anthracene	11.475	178	366152	20.383	ng	100
73) Carbazole	11.633	167	355423	20.567	ng	99
74) Di-n-butylphthalate	11.957	149	410317	20.566	ng	99
75) Fluoranthene	12.616	202	425403	21.335	ng	99
77) Benzidine	12.739	184	66895	10.185	ng	99
78) Pyrene	12.845	202	428479	20.514	ng	99
80) Butylbenzylphthalate	13.457	149	156775	20.835	ng	96
81) Benzo(a)anthracene	14.039	228	311416	20.825	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	88858	19.791	ng	98
83) Chrysene	14.074	228	275068	20.117	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	194626	20.484	ng	100
85) Di-n-octyl phthalate	14.633	149	259088	19.953	ng	100
87) Indeno(1,2,3-cd)pyrene	17.039	276	225489	19.930	ng	100
88) Benzo(b)fluoranthene	15.098	252	239653	21.977	ng	99
89) Benzo(k)fluoranthene	15.127	252	183799	19.261	ng	99
90) Benzo(a)pyrene	15.474	252	184528	20.812	ng	98
91) Dibenzo(a,h)anthracene	17.051	278	184632	19.926	ng	99
92) Benzo(g,h,i)perylene	17.492	276	187164	19.795	ng	98

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

ICAL Form

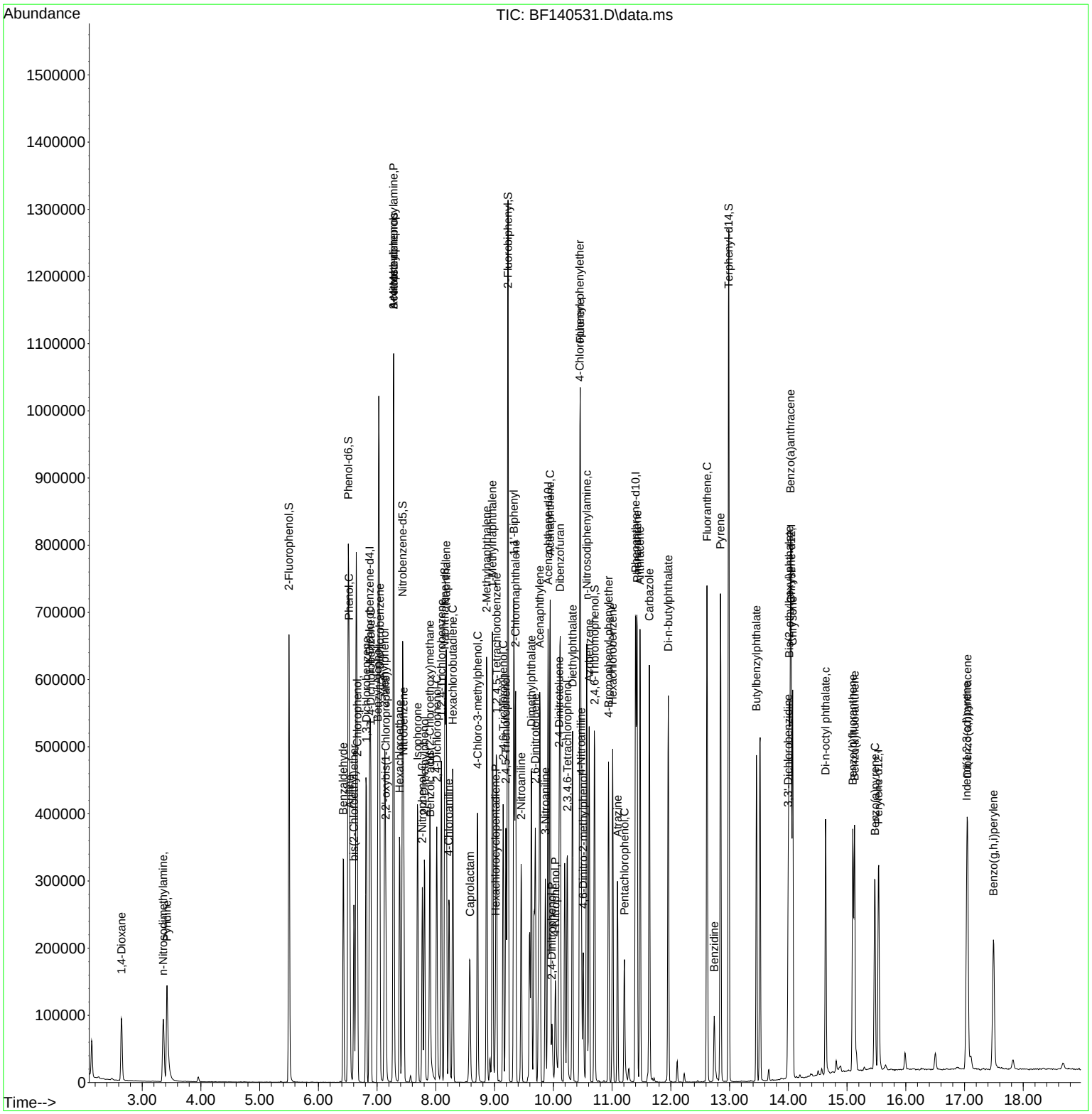
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140531.D
Acq On : 21 Nov 2024 12:32
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:11:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140532.D
Acq On : 21 Nov 2024 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 15:12:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	107516	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	413408	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	234407	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	437466	20.000	ng	0.00
76) Chrysene-d12	14.051	240	239343	20.000	ng	0.00
86) Perylene-d12	15.539	264	211422	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	504816	80.111	ng	0.00
7) Phenol-d6	6.516	99	688812	82.684	ng	0.00
23) Nitrobenzene-d5	7.439	82	648845	80.281	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	202517	80.781	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1210929	76.969	ng	0.00
79) Terphenyl-d14	12.992	244	1228064	79.896	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.652	88	105183	39.700	ng	100
3) Pyridine	3.422	79	256255	43.959	ng	100
4) n-Nitrosodimethylamine	3.381	42	139435	40.698	ng	100
6) Aniline	6.540	93	268994	45.875	ng	100
8) 2-Chlorophenol	6.663	128	275937	40.702	ng	100
9) Benzaldehyde	6.428	77	158653	35.975	ng	100
10) Phenol	6.528	94	358490	42.137	ng	100
11) bis(2-Chloroethyl)ether	6.610	93	267847	41.142	ng	100
12) 1,3-Dichlorobenzene	6.816	146	300744	39.480	ng	100
13) 1,4-Dichlorobenzene	6.892	146	307112	39.817	ng	100
14) 1,2-Dichlorobenzene	7.045	146	291347	40.311	ng	100
15) Benzyl Alcohol	7.016	79	263144	42.594	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.145	45	314582	40.901	ng	100
17) 2-Methylphenol	7.134	107	223977	41.272	ng	100
18) Hexachloroethane	7.387	117	115481	40.087	ng	100
19) n-Nitroso-di-n-propyla...	7.287	70	203356	41.304	ng	100
20) 3+4-Methylphenols	7.287	107	289597	41.517	ng	100
22) Acetophenone	7.287	105	397747	39.464	ng	100
24) Nitrobenzene	7.457	77	331927	39.736	ng	100
25) Isophorone	7.698	82	546985	40.576	ng	100
26) 2-Nitrophenol	7.775	139	149133	40.287	ng	100
27) 2,4-Dimethylphenol	7.810	122	185514	41.885	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	328053	39.946	ng	100
29) 2,4-Dichlorophenol	8.016	162	233140	39.725	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	261862	39.078	ng	100
31) Naphthalene	8.181	128	837233	39.318	ng	100
32) Benzoic acid	7.939	122	146245	39.450	ng	100
33) 4-Chloroaniline	8.228	127	268662	42.139	ng	100
34) Hexachlorobutadiene	8.292	225	175198	39.473	ng	100
35) Caprolactam	8.604	113	74771	41.168	ng	100
36) 4-Chloro-3-methylphenol	8.716	107	270395	41.150	ng	100
37) 2-Methylnaphthalene	8.869	142	537039	39.707	ng	100
38) 1-Methylnaphthalene	8.969	142	527387	39.781	ng	100
40) 1,2,4,5-Tetrachloroben...	9.033	216	263939	38.462	ng	100
41) Hexachlorocyclopentadiene	9.016	237	53531	38.833	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	171374	39.799	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140532.D
Acq On : 21 Nov 2024 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 15:12:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	189287	40.504	ng	100
46) 1,1'-Biphenyl	9.333	154	678172	38.750	ng	100
47) 2-Chloronaphthalene	9.357	162	518320	39.086	ng	100
48) 2-Nitroaniline	9.457	65	172005	40.410	ng	100
49) Acenaphthylene	9.775	152	779390	38.899	ng	100
50) Dimethylphthalate	9.633	163	608948	39.445	ng	100
51) 2,6-Dinitrotoluene	9.698	165	140922	40.249	ng	100
52) Acenaphthene	9.945	154	498119m	38.394	ng	
53) 3-Nitroaniline	9.869	138	140859	41.134	ng	100
54) 2,4-Dinitrophenol	9.980	184	65546	40.435	ng	100
55) Dibenzofuran	10.122	168	760308	39.153	ng	100
56) 4-Nitrophenol	10.039	139	97133	41.591	ng	100
57) 2,4-Dinitrotoluene	10.104	165	189213	40.662	ng	100
58) Fluorene	10.463	166	607198	38.956	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	146383	40.757	ng	100
60) Diethylphthalate	10.333	149	614490	39.176	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	299662	39.175	ng	100
62) 4-Nitroaniline	10.486	138	146354	40.750	ng	100
63) Azobenzene	10.616	77	579042	38.983	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	96120	42.998	ng	100
66) n-Nitrosodiphenylamine	10.575	169	505450	39.070	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	174746	38.787	ng	100
68) Hexachlorobenzene	11.016	284	204123	39.129	ng	100
69) Atrazine	11.098	200	122413	33.635	ng	100
70) Pentachlorophenol	11.210	266	101542	44.226	ng	100
71) Phenanthrene	11.427	178	826269	39.293	ng	100
72) Anthracene	11.480	178	808988	39.329	ng	100
73) Carbazole	11.639	167	778112	39.322	ng	100
74) Di-n-butylphthalate	11.957	149	895236	39.186	ng	100
75) Fluoranthene	12.621	202	886900	38.845	ng	100
77) Benzidine	12.739	184	275047	39.525	ng	100
78) Pyrene	12.851	202	887193	40.090	ng	100
80) Butylbenzylphthalate	13.463	149	324879	40.751	ng	100
81) Benzo(a)anthracene	14.039	228	615808	38.868	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	197667	41.554	ng	100
83) Chrysene	14.080	228	575079	39.696	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	398677	39.604	ng	100
85) Di-n-octyl phthalate	14.633	149	541933	39.393	ng	100
87) Indeno(1,2,3-cd)pyrene	17.051	276	551596	40.034	ng	100
88) Benzo(b)fluoranthene	15.104	252	501607	37.772	ng	100
89) Benzo(k)fluoranthene	15.133	252	465620	40.067	ng	100
90) Benzo(a)pyrene	15.474	252	425894	39.444	ng	100
91) Dibenzo(a,h)anthracene	17.062	278	451597	40.022	ng	100
92) Benzo(g,h,i)perylene	17.509	276	458972	39.861	ng	100

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

ICAL Form

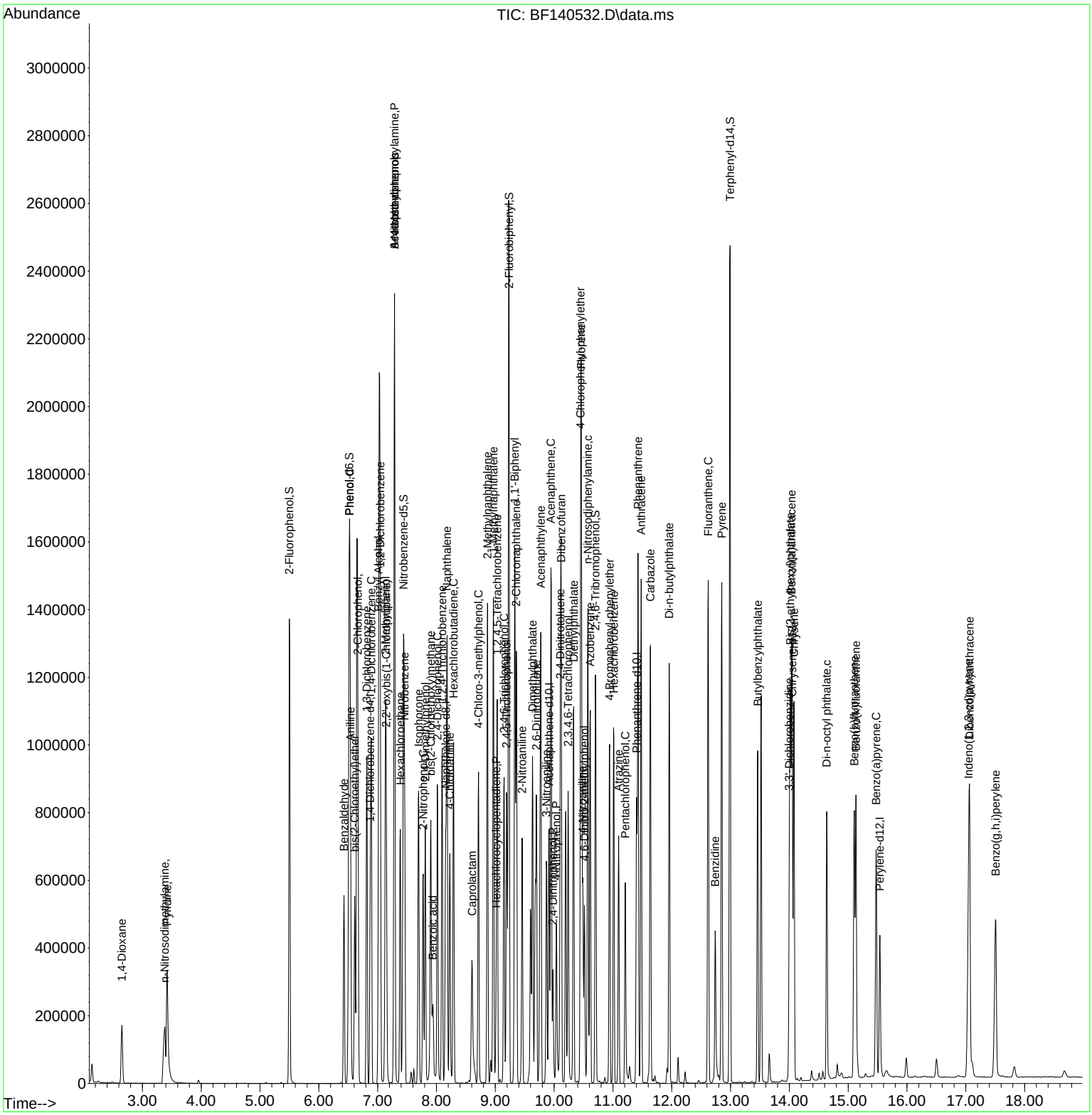
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140532.D
Acq On : 21 Nov 2024 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 15:12:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140533.D
Acq On : 21 Nov 2024 13:25
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 21 15:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	117539	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	425301	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	233869	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	432727	20.000	ng	0.00
76) Chrysene-d12	14.057	240	241266	20.000	ng	0.00
86) Perylene-d12	15.545	264	219139	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	656695	95.327	ng	0.00
7) Phenol-d6	6.522	99	860924	94.531	ng	0.00
23) Nitrobenzene-d5	7.445	82	801144	96.352	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	245159	98.015	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1467020	93.462	ng	0.00
79) Terphenyl-d14	12.992	244	1481875	95.640	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	132951	45.902	ng	99
3) Pyridine	3.416	79	312094	48.973	ng	97
4) n-Nitrosodimethylamine	3.387	42	185759	49.595	ng	99
6) Aniline	6.545	93	306198	47.767	ng	99
8) 2-Chlorophenol	6.669	128	352950	47.623	ng	97
9) Benzaldehyde	6.428	77	220959	45.830	ng	100
10) Phenol	6.534	94	444859	47.830	ng	98
11) bis(2-Chloroethyl)ether	6.616	93	336892	47.335	ng	100
12) 1,3-Dichlorobenzene	6.816	146	395334	47.472	ng	99
13) 1,4-Dichlorobenzene	6.892	146	399191	47.341	ng	100
14) 1,2-Dichlorobenzene	7.045	146	372552	47.151	ng	98
15) Benzyl Alcohol	7.022	79	327081	48.428	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	392372	46.665	ng	93
17) 2-Methylphenol	7.134	107	280882	47.344	ng	98
18) Hexachloroethane	7.386	117	151045	47.961	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	251453	46.718	ng	99
20) 3+4-Methylphenols	7.292	107	355860	46.666	ng	95
22) Acetophenone	7.286	105	492194	47.469	ng	98
24) Nitrobenzene	7.463	77	412860	48.043	ng	99
25) Isophorone	7.698	82	668649	48.214	ng	100
26) 2-Nitrophenol	7.775	139	189056	49.644	ng	99
27) 2,4-Dimethylphenol	7.816	122	217017	47.628	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	402409	47.630	ng	100
29) 2,4-Dichlorophenol	8.022	162	295023	48.863	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	336812	48.858	ng	98
31) Naphthalene	8.181	128	1055423	48.178	ng	100
32) Benzoic acid	7.957	122	196545	49.333	ng	99
33) 4-Chloroaniline	8.233	127	322212	49.125	ng	99
34) Hexachlorobutadiene	8.292	225	221707	48.555	ng	99
35) Caprolactam	8.616	113	90596	48.486	ng	99
36) 4-Chloro-3-methylphenol	8.716	107	326418	48.287	ng	99
37) 2-Methylnaphthalene	8.869	142	662592	47.620	ng	100
38) 1-Methylnaphthalene	8.969	142	649248	47.603	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	328190	47.935	ng	99
41) Hexachlorocyclopentadiene	9.016	237	70831	49.123	ng	97
43) 2,4,6-Trichlorophenol	9.151	196	212974	49.574	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140533.D
Acq On : 21 Nov 2024 13:25
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 21 15:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

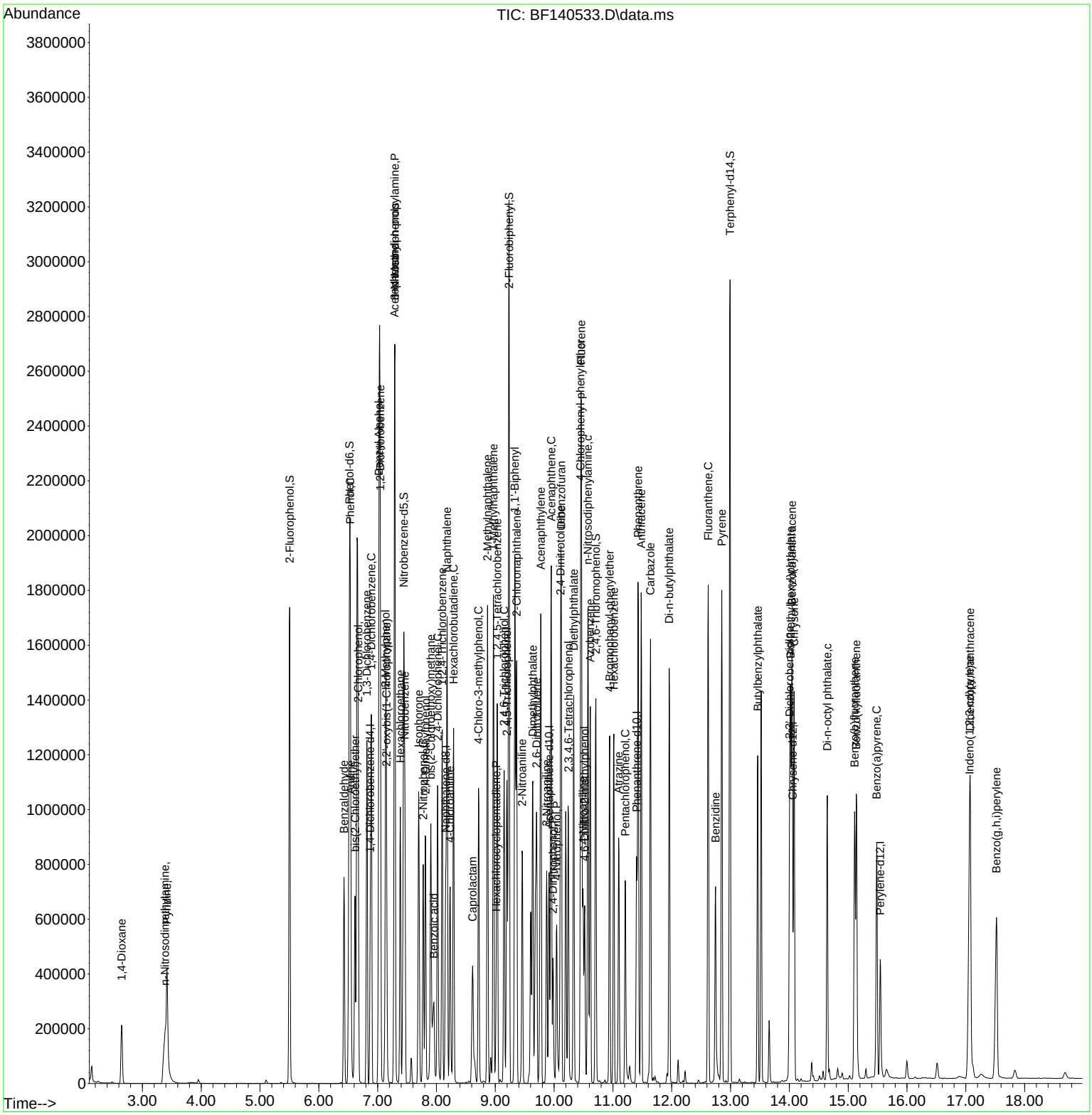
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	227840	48.866	ng	98
46) 1,1'-Biphenyl	9.333	154	834139	47.772	ng	99
47) 2-Chloronaphthalene	9.363	162	632459	47.803	ng	99
48) 2-Nitroaniline	9.457	65	212420	50.020	ng	98
49) Acenaphthylene	9.775	152	951784	47.612	ng	99
50) Dimethylphthalate	9.639	163	740559	48.081	ng	99
51) 2,6-Dinitrotoluene	9.704	165	169989	48.663	ng	96
52) Acenaphthene	9.951	154	615149	47.524	ng	99
53) 3-Nitroaniline	9.875	138	169234	49.534	ng	96
54) 2,4-Dinitrophenol	9.980	184	84985	50.205	ng	99
55) Dibenzofuran	10.122	168	911771	47.061	ng	99
56) 4-Nitrophenol	10.045	139	124021	53.227	ng	98
57) 2,4-Dinitrotoluene	10.110	165	225762	48.629	ng	98
58) Fluorene	10.463	166	738453	47.486	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	178549	49.828	ng	97
60) Diethylphthalate	10.333	149	755358	48.268	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	361856	47.414	ng	100
62) 4-Nitroaniline	10.492	138	180999	50.512	ng	99
63) Azobenzene	10.616	77	704370	47.529	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	119290	53.947	ng	99
66) n-Nitrosodiphenylamine	10.574	169	623715	48.740	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	216523	48.587	ng	97
68) Hexachlorobenzene	11.016	284	251498	48.739	ng	100
69) Atrazine	11.098	200	159048	44.180	ng	99
70) Pentachlorophenol	11.210	266	124128	54.656	ng	99
71) Phenanthrene	11.427	178	1000897	48.118	ng	100
72) Anthracene	11.480	178	978923	48.111	ng	100
73) Carbazole	11.639	167	948090	48.436	ng	99
74) Di-n-butylphthalate	11.957	149	1105032	48.899	ng	100
75) Fluoranthene	12.621	202	1080641	47.849	ng	100
77) Benzidine	12.745	184	442856	63.133	ng	100
78) Pyrene	12.851	202	1080149	48.420	ng	100
80) Butylbenzylphthalate	13.463	149	394867	49.136	ng	99
81) Benzo(a)anthracene	14.045	228	780853	48.892	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	244892	51.072	ng	99
83) Chrysene	14.080	228	685847	46.964	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	497161	48.994	ng	100
85) Di-n-octyl phthalate	14.645	149	692020	49.901	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	715720	50.117	ng	100
88) Benzo(b)fluoranthene	15.109	252	683919	49.687	ng	100
89) Benzo(k)fluoranthene	15.139	252	559704	46.467	ng	100
90) Benzo(a)pyrene	15.486	252	546539	48.835	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	588742	50.339	ng	99
92) Benzo(g,h,i)perylene	17.521	276	599158	50.203	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140533.D
Acq On : 21 Nov 2024 13:25
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 21 15:13:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140534.D
Acq On : 21 Nov 2024 13:51
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 21 15:14:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	126992	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	460987	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	252108	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	449876	20.000	ng		0.00
76) Chrysene-d12	14.051	240	226512	20.000	ng		0.00
86) Perylene-d12	15.539	264	216239	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	858529	115.348	ng		0.00
7) Phenol-d6	6.522	99	1119751	113.799	ng		0.00
23) Nitrobenzene-d5	7.445	82	1043537	115.789	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	317506	117.756	ng		0.00
45) 2-Fluorobiphenyl	9.233	172	1875064	110.815	ng		0.00
79) Terphenyl-d14	12.992	244	1783980	122.638	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.651	88	172855	55.237	ng		100
3) Pyridine	3.422	79	414269	60.167	ng		97
4) n-Nitrosodimethylamine	3.398	42	240667	59.472	ng		99
6) Aniline	6.545	93	388609	56.111	ng	#	75
8) 2-Chlorophenol	6.669	128	460365	57.492	ng		99
9) Benzaldehyde	6.428	77	242020	46.462	ng		98
10) Phenol	6.539	94	567815	56.506	ng		97
11) bis(2-Chloroethyl)ether	6.616	93	457231	59.461	ng		99
12) 1,3-Dichlorobenzene	6.816	146	518683	57.647	ng		99
13) 1,4-Dichlorobenzene	6.892	146	522883	57.394	ng		99
14) 1,2-Dichlorobenzene	7.051	146	482402	56.509	ng		99
15) Benzyl Alcohol	7.022	79	415427	56.931	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	524697	57.758	ng		98
17) 2-Methylphenol	7.139	107	365400	57.006	ng		97
18) Hexachloroethane	7.386	117	194336	57.114	ng		100
19) n-Nitroso-di-n-propyla...	7.298	70	326639	56.169	ng		98
20) 3+4-Methylphenols	7.292	107	460654	55.912	ng		95
22) Acetophenone	7.292	105	636564	56.641	ng		98
24) Nitrobenzene	7.463	77	540526	58.030	ng		100
25) Isophorone	7.698	82	876972	58.340	ng		99
26) 2-Nitrophenol	7.775	139	249133	60.355	ng		100
27) 2,4-Dimethylphenol	7.816	122	285825	57.873	ng		98
28) bis(2-Chloroethoxy)met...	7.904	93	531210	58.008	ng		100
29) 2,4-Dichlorophenol	8.022	162	379082	57.925	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	431792	57.787	ng		100
31) Naphthalene	8.181	128	1359743	57.265	ng		99
32) Benzoic acid	7.969	122	265434	59.698	ng		99
33) 4-Chloroaniline	8.233	127	425356	59.831	ng		99
34) Hexachlorobutadiene	8.292	225	286614	57.911	ng		98
35) Caprolactam	8.622	113	117351	57.943	ng		99
36) 4-Chloro-3-methylphenol	8.722	107	424528	57.938	ng		99
37) 2-Methylnaphthalene	8.869	142	857509	56.857	ng		100
38) 1-Methylnaphthalene	8.969	142	841528	56.925	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	427164	57.878	ng		99
41) Hexachlorocyclopentadiene	9.016	237	97536	60.727	ng		98
43) 2,4,6-Trichlorophenol	9.151	196	272399	58.819	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140534.D
Acq On : 21 Nov 2024 13:51
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 21 15:14:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

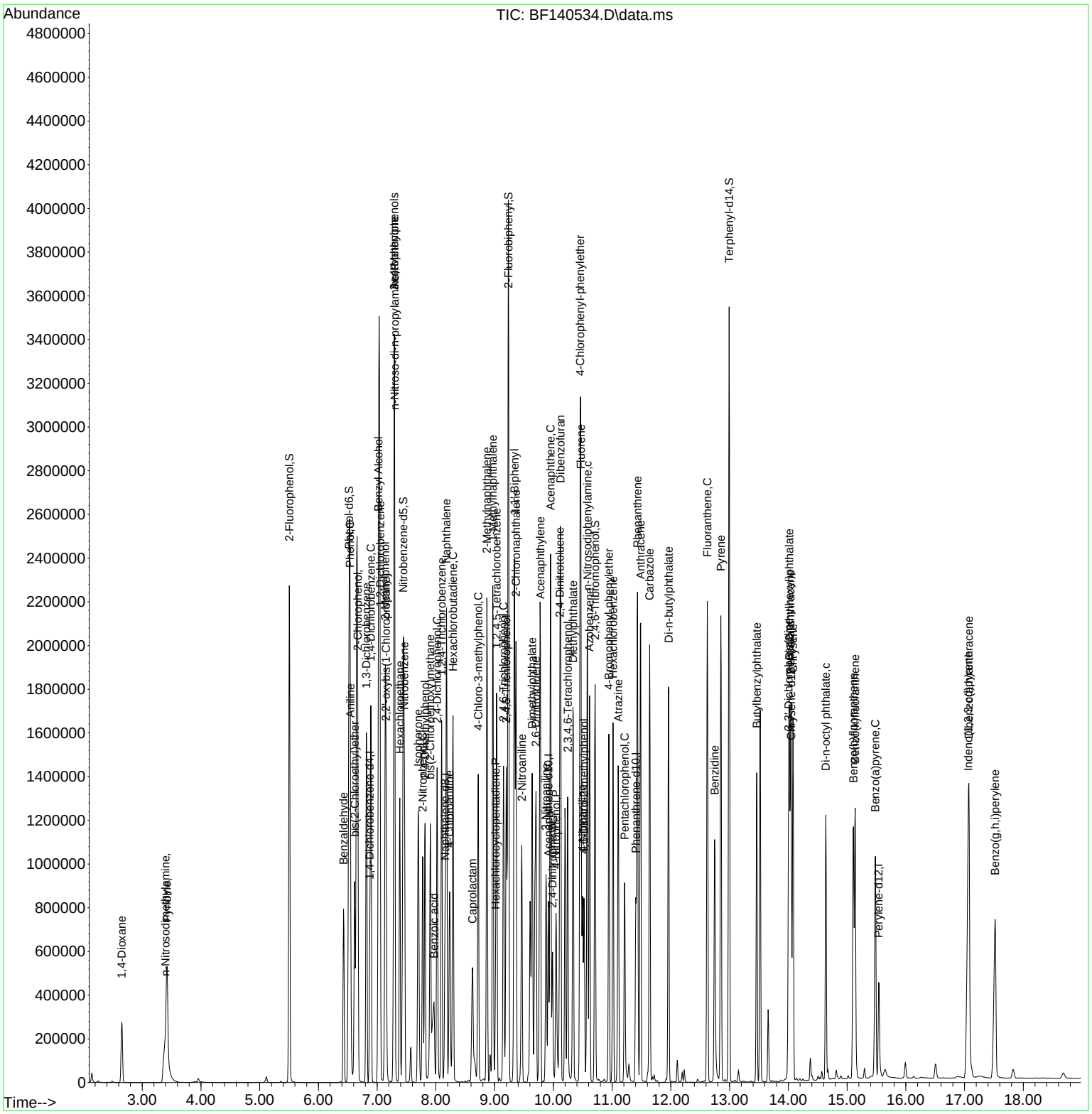
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	300029	59.694	ng	98
46) 1,1'-Biphenyl	9.339	154	1072474	56.978	ng	99
47) 2-Chloronaphthalene	9.363	162	819966	57.492	ng	99
48) 2-Nitroaniline	9.463	65	269813	58.938	ng	96
49) Acenaphthylene	9.780	152	1227568	56.965	ng	99
50) Dimethylphthalate	9.639	163	960589	57.854	ng	100
51) 2,6-Dinitrotoluene	9.704	165	221428	58.802	ng	99
52) Acenaphthene	9.951	154	784102	56.194	ng	100
53) 3-Nitroaniline	9.875	138	212165	57.607	ng	99
54) 2,4-Dinitrophenol	9.986	184	113495	60.328	ng	97
55) Dibenzofuran	10.122	168	1158263	55.459	ng	98
56) 4-Nitrophenol	10.045	139	161782	64.410	ng	96
57) 2,4-Dinitrotoluene	10.110	165	293950	58.735	ng	98
58) Fluorene	10.469	166	925678	55.218	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	230786	59.746	ng	97
60) Diethylphthalate	10.333	149	959366	56.869	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	457757	55.641	ng	99
62) 4-Nitroaniline	10.498	138	233877	60.547	ng	98
63) Azobenzene	10.616	77	912145	57.097	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	158199	68.815	ng	98
66) n-Nitrosodiphenylamine	10.580	169	783428	58.887	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	276260	59.628	ng	98
68) Hexachlorobenzene	11.016	284	317935	59.265	ng	99
69) Atrazine	11.104	200	264529	70.679	ng	100
70) Pentachlorophenol	11.216	266	162925	69.004	ng	99
71) Phenanthrene	11.433	178	1236004	57.156	ng	100
72) Anthracene	11.486	178	1220392	57.692	ng	99
73) Carbazole	11.639	167	1163411	57.171	ng	99
74) Di-n-butylphthalate	11.963	149	1359134	57.851	ng	100
75) Fluoranthene	12.621	202	1298953	55.323	ng	99
77) Benzidine	12.745	184	696576	105.771	ng	100
78) Pyrene	12.851	202	1289961	61.591	ng	100
80) Butylbenzylphthalate	13.463	149	458296	60.743	ng	98
81) Benzo(a)anthracene	14.039	228	909243	60.640	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	284725	63.247	ng	99
83) Chrysene	14.080	228	797151	58.142	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	571450	59.983	ng	100
85) Di-n-octyl phthalate	14.639	149	794359	61.012	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	914265	64.878	ng	98
88) Benzo(b)fluoranthene	15.109	252	782997	57.648	ng	99
89) Benzo(k)fluoranthene	15.139	252	684548	57.594	ng	100
90) Benzo(a)pyrene	15.480	252	657502	59.538	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	745614	64.606	ng	99
92) Benzo(g,h,i)perylene	17.521	276	753452	63.978	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140534.D
Acq On : 21 Nov 2024 13:51
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 21 15:14:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140535.D
Acq On : 21 Nov 2024 14:18
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Nov 21 15:15:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	111872	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	386311	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	207499	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	377113	20.000	ng		0.00
76) Chrysene-d12	14.057	240	187912	20.000	ng		0.00
86) Perylene-d12	15.539	264	185457	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	976816	148.979	ng		0.01
7) Phenol-d6	6.528	99	1259345	145.284	ng		0.01
23) Nitrobenzene-d5	7.451	82	1184453	156.830	ng		0.01
42) 2,4,6-Tribromophenol	10.710	330	350473	157.926	ng		0.00
45) 2-Fluorobiphenyl	9.234	172	2050501	147.236	ng		0.00
79) Terphenyl-d14	12.992	244	1884646	156.171	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.663	88	213294	77.371	ng		100
3) Pyridine	3.434	79	504657	83.201	ng		98
4) n-Nitrosodimethylamine	3.416	42	295436	82.873	ng		99
6) Aniline	6.551	93	373764	61.261	ng	#	66
8) 2-Chlorophenol	6.675	128	512168	72.606	ng		97
10) Phenol	6.545	94	633910	71.609	ng		99
11) bis(2-Chloroethyl)ether	6.622	93	509142	75.160	ng		100
12) 1,3-Dichlorobenzene	6.822	146	576538	72.737	ng		99
13) 1,4-Dichlorobenzene	6.893	146	587901	73.253	ng		98
14) 1,2-Dichlorobenzene	7.051	146	541244	71.971	ng		99
15) Benzyl Alcohol	7.028	79	469135	72.980	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.151	45	571163	71.370	ng		89
17) 2-Methylphenol	7.140	107	412367	73.028	ng		97
18) Hexachloroethane	7.387	117	223281	74.489	ng		98
19) n-Nitroso-di-n-propyla...	7.304	70	370745	72.370	ng		97
20) 3+4-Methylphenols	7.298	107	516442	71.155	ng		91
22) Acetophenone	7.292	105	722622	76.727	ng	#	98
24) Nitrobenzene	7.469	77	605207	77.534	ng		98
25) Isophorone	7.704	82	981772	77.937	ng		100
26) 2-Nitrophenol	7.775	139	277762	80.298	ng		98
27) 2,4-Dimethylphenol	7.816	122	336239	81.241	ng		100
28) bis(2-Chloroethoxy)met...	7.904	93	591884	77.128	ng		100
29) 2,4-Dichlorophenol	8.022	162	418686	76.344	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	482134	76.997	ng		99
31) Naphthalene	8.181	128	1498520	75.309	ng		100
32) Benzoic acid	7.981	122	312770	81.021	ng		99
33) 4-Chloroaniline	8.239	127	446235	74.901	ng		99
34) Hexachlorobutadiene	8.292	225	315951	76.179	ng		99
35) Caprolactam	8.634	113	127641	75.207	ng		99
36) 4-Chloro-3-methylphenol	8.728	107	465184	75.759	ng		100
37) 2-Methylnaphthalene	8.869	142	949611	75.136	ng		100
38) 1-Methylnaphthalene	8.969	142	928964	74.987	ng		100
40) 1,2,4,5-Tetrachloroben...	9.039	216	468632	77.147	ng		100
41) Hexachlorocyclopentadiene	9.022	237	110015	80.520	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	302826	79.446	ng		99
44) 2,4,5-Trichlorophenol	9.204	196	325549	78.696	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140535.D
Acq On : 21 Nov 2024 14:18
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Nov 21 15:15:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46)	1,1'-Biphenyl	9.339	154	1164092	75.141	ng	98
47)	2-Chloronaphthalene	9.363	162	905645	77.151	ng	100
48)	2-Nitroaniline	9.463	65	297813	79.040	ng	99
49)	Acenaphthylene	9.781	152	1319777	74.411	ng	99
50)	Dimethylphthalate	9.645	163	1041011	76.177	ng	100
51)	2,6-Dinitrotoluene	9.710	165	237697	76.693	ng	96
52)	Acenaphthene	9.951	154	851353	74.130	ng	99
53)	3-Nitroaniline	9.881	138	217122	71.627	ng	95
54)	2,4-Dinitrophenol	9.986	184	127923	79.725	ng	98
55)	Dibenzofuran	10.122	168	1252581	72.868	ng	98
56)	4-Nitrophenol	10.051	139	172406	83.396	ng	97
57)	2,4-Dinitrotoluene	10.116	165	314478	76.346	ng	96
58)	Fluorene	10.469	166	1004537	72.805	ng	99
59)	2,3,4,6-Tetrachlorophenol	10.245	232	258582	81.333	ng	97
60)	Diethylphthalate	10.339	149	1023948	73.747	ng	99
61)	4-Chlorophenyl-phenyle...	10.457	204	496862	73.378	ng	98
62)	4-Nitroaniline	10.504	138	241223	75.874	ng	99
63)	Azobenzene	10.616	77	978891	74.448	ng	99
65)	4,6-Dinitro-2-methylph...	10.528	198	170169	88.305	ng	98
66)	n-Nitrosodiphenylamine	10.581	169	842038	75.504	ng	99
67)	4-Bromophenyl-phenylether	10.945	248	298430	76.842	ng	98
68)	Hexachlorobenzene	11.016	284	349669	77.757	ng	98
69)	Atrazine	11.110	200	298744	95.222	ng	99
70)	Pentachlorophenol	11.216	266	177717	89.792	ng	99
71)	Phenanthrene	11.433	178	1329366	73.334	ng	100
72)	Anthracene	11.486	178	1295331	73.050	ng	100
73)	Carbazole	11.639	167	1238730	72.617	ng	100
74)	Di-n-butylphthalate	11.963	149	1458047	74.036	ng	100
75)	Fluoranthene	12.622	202	1389485	70.598	ng	99
77)	Benzidine	12.745	184	564372	103.300	ng	100
78)	Pyrene	12.851	202	1352459	77.840	ng	100
80)	Butylbenzylphthalate	13.463	149	481834	76.981	ng	99
81)	Benzo(a)anthracene	14.045	228	933395	75.038	ng	99
82)	3,3'-Dichlorobenzidine	14.004	252	295857	79.219	ng	99
83)	Chrysene	14.080	228	847578	74.518	ng	100
84)	Bis(2-ethylhexyl)phtha...	14.016	149	598926	75.781	ng	100
85)	Di-n-octyl phthalate	14.639	149	842600	78.011	ng	100
87)	Indeno(1,2,3-cd)pyrene	17.062	276	973960	80.586	ng	100
88)	Benzo(b)fluoranthene	15.104	252	866416	74.378	ng	99
89)	Benzo(k)fluoranthene	15.139	252	726636	71.283	ng	100
90)	Benzo(a)pyrene	15.480	252	710060	74.969	ng	99
91)	Dibenzo(a,h)anthracene	17.074	278	789090	79.722	ng	99
92)	Benzo(g,h,i)perylene	17.521	276	803570	79.559	ng	99

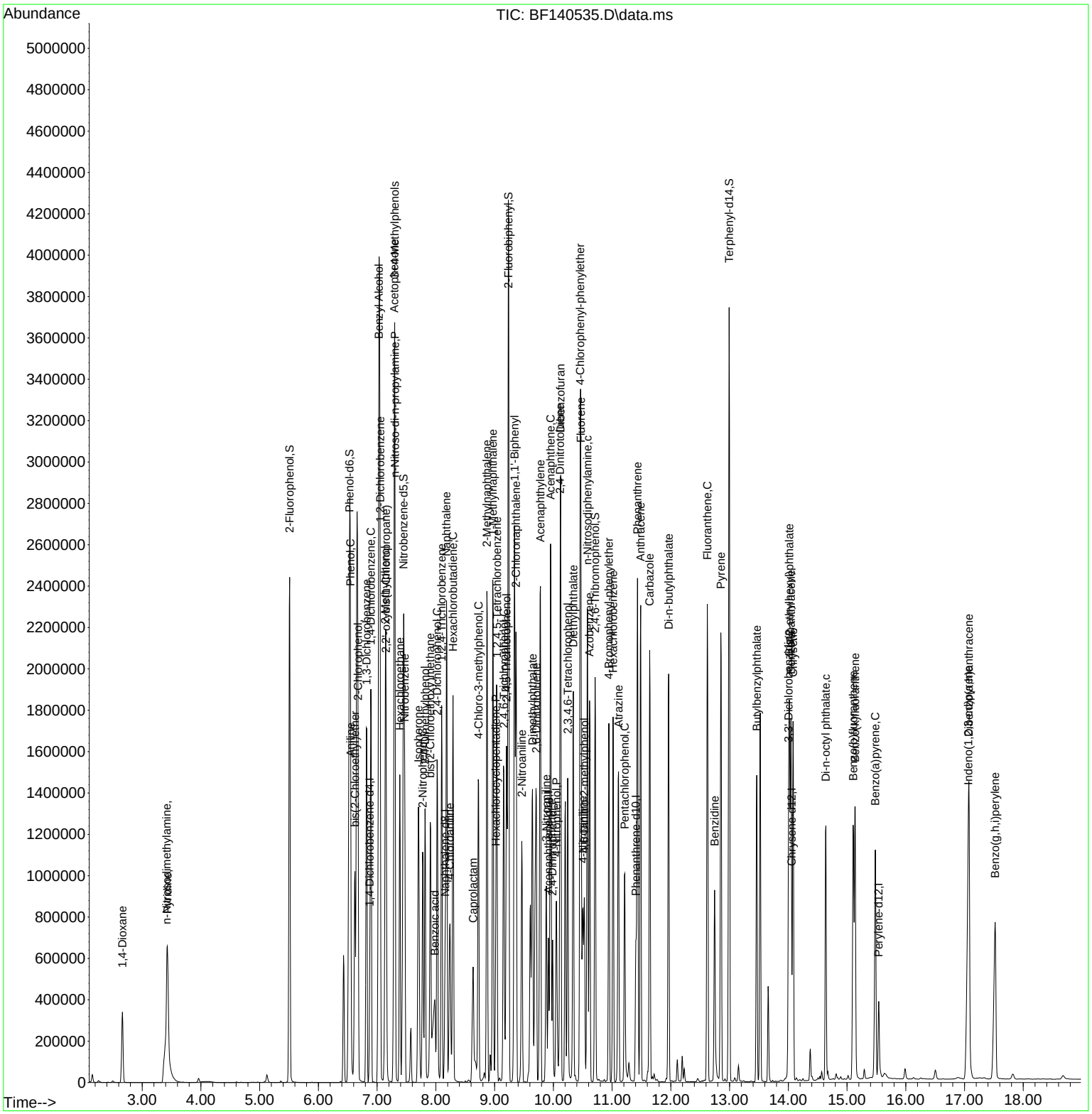
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140535.D
Acq On : 21 Nov 2024 14:18
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Nov 21 15:15:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	106835	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	417612	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	239418	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	448820	20.000	ng	0.00
76) Chrysene-d12	14.057	240	266538	20.000	ng	0.00
86) Perylene-d12	15.551	264	215076	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	494717	79.009	ng	0.00
7) Phenol-d6	6.516	99	674309	81.459	ng	0.00
23) Nitrobenzene-d5	7.439	82	644226	78.907	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	204020	79.677	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1227501	76.390	ng	0.00
79) Terphenyl-d14	12.992	244	1291669	75.460	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.640	88	102768	39.036	ng	99
3) Pyridine	3.410	79	258925	44.701	ng	99
4) n-Nitrosodimethylamine	3.369	42	140208	41.184	ng	98
6) Aniline	6.539	93	274234	47.067	ng	91
8) 2-Chlorophenol	6.663	128	270746	40.191	ng	98
9) Benzaldehyde	6.428	77	161873	36.939	ng	99
10) Phenol	6.528	94	346860	41.030	ng	98
11) bis(2-Chloroethyl)ether	6.610	93	257441	39.796	ng	99
12) 1,3-Dichlorobenzene	6.816	146	300749	39.732	ng	99
13) 1,4-Dichlorobenzene	6.892	146	304030	39.668	ng	100
14) 1,2-Dichlorobenzene	7.045	146	283001	39.406	ng	98
15) Benzyl Alcohol	7.016	79	257787	41.993	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	314742	41.183	ng	93
17) 2-Methylphenol	7.133	107	224359	41.606	ng	98
18) Hexachloroethane	7.381	117	114809	40.108	ng	98
19) n-Nitroso-di-n-propyla...	7.286	70	205658	42.038	ng	99
20) 3+4-Methylphenols	7.286	107	287897	41.536	ng	98
22) Acetophenone	7.281	105	396692	38.963	ng	99
24) Nitrobenzene	7.457	77	330161	39.127	ng	99
25) Isophorone	7.692	82	549222	40.332	ng	99
26) 2-Nitrophenol	7.769	139	150969	40.372	ng	98
27) 2,4-Dimethylphenol	7.810	122	177031	39.568	ng	99
28) bis(2-Chloroethoxy)met...	7.898	93	331321	39.938	ng	100
29) 2,4-Dichlorophenol	8.016	162	236857	39.952	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	263327	38.901	ng	99
31) Naphthalene	8.175	128	842187	39.152	ng	99
32) Benzoic acid	7.939	122	156794	41.429	ng	98
33) 4-Chloroaniline	8.228	127	280483	43.551	ng	99
34) Hexachlorobutadiene	8.292	225	176676	39.406	ng	99
35) Caprolactam	8.604	113	74088	40.381	ng	94
36) 4-Chloro-3-methylphenol	8.716	107	266862	40.203	ng	99
37) 2-Methylnaphthalene	8.869	142	546332	39.987	ng	99
38) 1-Methylnaphthalene	8.969	142	531502	39.688	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	272114	38.824	ng	100
41) Hexachlorocyclopentadiene	9.016	237	52730	37.711	ng	97
43) 2,4,6-Trichlorophenol	9.151	196	173239	39.390	ng	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	192368	40.302	ng	99
46) 1,1'-Biphenyl	9.333	154	693007	38.769	ng	100
47) 2-Chloronaphthalene	9.357	162	530895	39.197	ng	100
48) 2-Nitroaniline	9.457	65	174060	40.037	ng	99
49) Acenaphthylene	9.774	152	795061	38.850	ng	99
50) Dimethylphthalate	9.633	163	624268	39.591	ng	99
51) 2,6-Dinitrotoluene	9.698	165	140739	39.356	ng	100
52) Acenaphthene	9.945	154	501631m	38.578	ng	
53) 3-Nitroaniline	9.874	138	143055	40.901	ng	96
54) 2,4-Dinitrophenol	9.980	184	58542	36.341	ng	99
55) Dibenzofuran	10.122	168	766460	38.644	ng	99
56) 4-Nitrophenol	10.039	139	100812	42.263	ng	99
57) 2,4-Dinitrotoluene	10.104	165	194980	41.025	ng	98
58) Fluorene	10.463	166	622708	39.115	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	153327	41.797	ng	97
60) Diethylphthalate	10.333	149	626046	39.078	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	308891	39.536	ng	99
62) 4-Nitroaniline	10.486	138	148087	40.369	ng	99
63) Azobenzene	10.616	77	597687	39.396	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	94340	41.134	ng	99
66) n-Nitrosodiphenylamine	10.574	169	513960	38.723	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	180160	38.977	ng	99
68) Hexachlorobenzene	11.016	284	208589	38.974	ng	99
69) Atrazine	11.098	200	129353	34.643	ng	99
70) Pentachlorophenol	11.210	266	100767	42.779	ng	98
71) Phenanthrene	11.427	178	838392	38.861	ng	99
72) Anthracene	11.480	178	819442	38.829	ng	100
73) Carbazole	11.639	167	795975	39.207	ng	100
74) Di-n-butylphthalate	11.963	149	932026	39.765	ng	99
75) Fluoranthene	12.621	202	937019	40.002	ng	100
77) Benzidine	12.745	184	304946	39.351	ng	99
78) Pyrene	12.851	202	941890	38.219	ng	99
80) Butylbenzylphthalate	13.463	149	359930	40.542	ng	97
81) Benzo(a)anthracene	14.045	228	700865	39.723	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	217249	41.011	ng	99
83) Chrysene	14.080	228	635750	39.406	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	468853	41.823	ng	99
85) Di-n-octyl phthalate	14.645	149	673561	43.965	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	546567	38.995	ng	99
88) Benzo(b)fluoranthene	15.109	252	551853	40.850	ng	100
89) Benzo(k)fluoranthene	15.145	252	474176	40.110	ng	100
90) Benzo(a)pyrene	15.486	252	439811	40.041	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	459746	40.052	ng	100
92) Benzo(g,h,i)perylene	17.521	276	463747	39.591	ng	99

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

ICAL Form

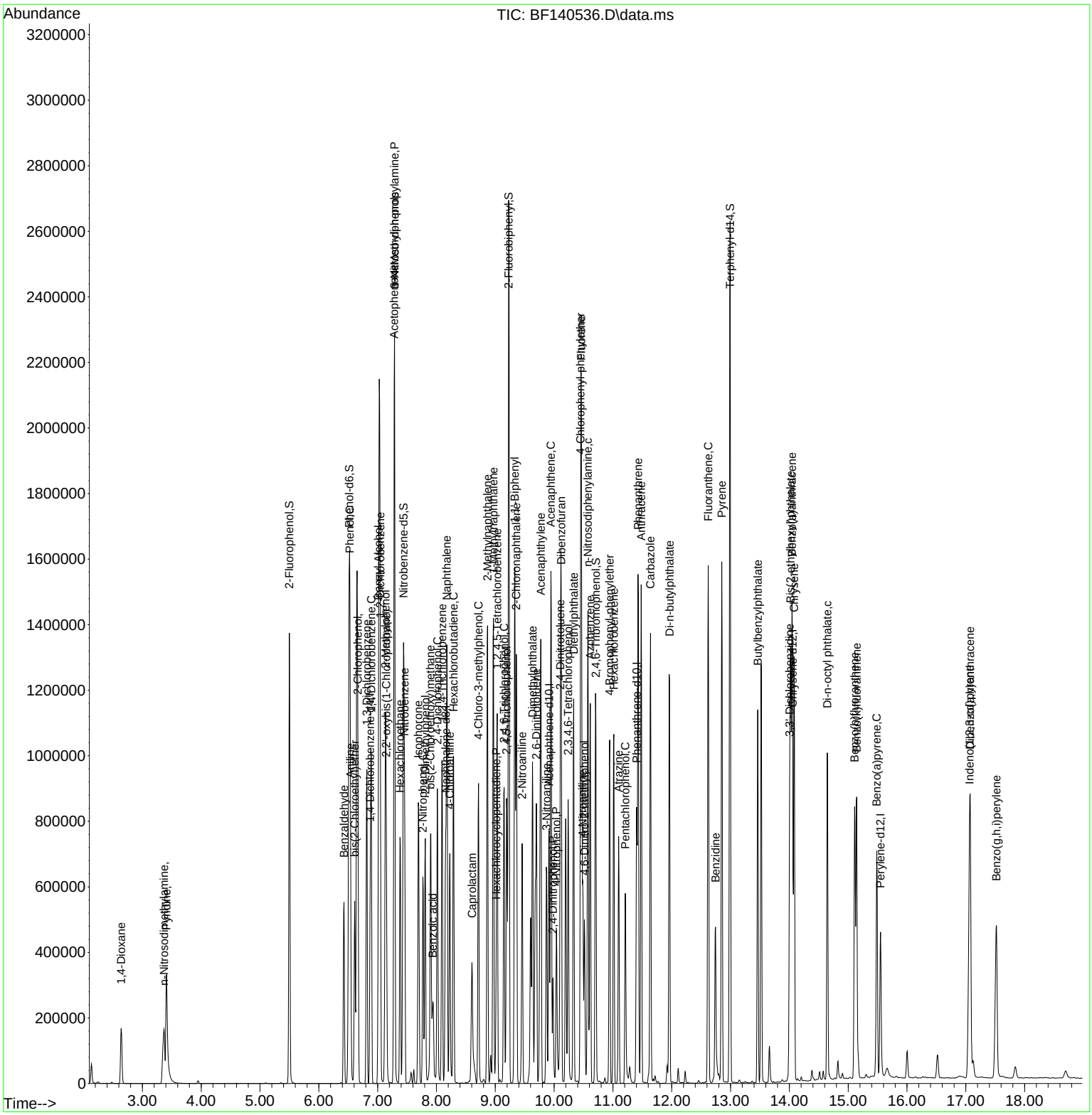
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	99	0.00
2		1,4-Dioxane	0.493	0.481	2.4	98	-0.01
3		Pyridine	1.084	1.212	-11.8	101	-0.01
4		n-Nitrosodimethylamine	0.637	0.656	-3.0	101	-0.01
5	S	2-Fluorophenol	1.172	1.158	1.2	98	0.00
6		Aniline	1.091	1.283	-17.6	102	0.00
7	S	Phenol-d6	1.550	1.578	-1.8	98	0.00
8		2-Chlorophenol	1.261	1.267	-0.5	98	0.00
9		Benzaldehyde	0.820	0.758	7.6	102	0.00
10	C	Phenol	1.583	1.623	-2.5	97	0.00
11		bis(2-Chloroethyl)ether	1.211	1.205	0.5	96	0.00
12		1,3-Dichlorobenzene	1.417	1.408	0.6	100	0.00
13	C	1,4-Dichlorobenzene	1.435	1.423	0.8	99	0.00
14		1,2-Dichlorobenzene	1.344	1.324	1.5	97	0.00
15		Benzyl Alcohol	1.149	1.206	-5.0	98	0.00
16		2,2'-oxybis(1-Chloropropane	1.431	1.473	-2.9	100	0.00
17		2-Methylphenol	1.009	1.050	-4.1	100	0.00
18		Hexachloroethane	0.536	0.537	-0.2	99	0.00
19	P	n-Nitroso-di-n-propylamine	0.916	0.963	-5.1	101	0.00
20		3+4-Methylphenols	1.298	1.347	-3.8	99	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
22		Acetophenone	0.488	0.475	2.7	100	0.00
23	S	Nitrobenzene-d5	0.391	0.386	1.3	99	0.00
24		Nitrobenzene	0.404	0.395	2.2	99	0.00
25		Isophorone	0.652	0.658	-0.9	100	0.00
26	C	2-Nitrophenol	0.179	0.181	-1.1	101	0.00
27		2,4-Dimethylphenol	0.214	0.212	0.9	95	0.00
28		bis(2-Chloroethoxy)methane	0.397	0.397	0.0	101	0.00
29	C	2,4-Dichlorophenol	0.284	0.284	0.0	102	0.00
30		1,2,4-Trichlorobenzene	0.324	0.315	2.8	101	0.00
31		Naphthalene	1.030	1.008	2.1	101	0.00
32		Benzoic acid	0.164	0.188	-14.6	107	0.00
33		4-Chloroaniline	0.308	0.336	-9.1	104	0.00
34	C	Hexachlorobutadiene	0.215	0.212	1.4	101	0.00
35		Caprolactam	0.088	0.089	-1.1	99	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.320	-0.6	99	0.00
37		2-Methylnaphthalene	0.654	0.654	0.0	102	0.00
38		1-Methylnaphthalene	0.641	0.636	0.8	101	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	0.586	0.568	3.1	103	0.00
41	P	Hexachlorocyclopentadiene	0.107	0.110	-2.8	99	0.00
42	S	2,4,6-Tribromophenol	0.214	0.213	0.5	101	0.00
43	C	2,4,6-Trichlorophenol	0.367	0.362	1.4	101	0.00
44		2,4,5-Trichlorophenol	0.399	0.402	-0.8	102	0.00
45	S	2-Fluorobiphenyl	1.342	1.282	4.5	101	0.00
46		1,1'-Biphenyl	1.493	1.447	3.1	102	0.00
47		2-Chloronaphthalene	1.131	1.109	1.9	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	0.363	0.364	-0.3	101	0.00
49		Acenaphthylene	1.710	1.660	2.9	102	0.00
50		Dimethylphthalate	1.317	1.304	1.0	103	0.00
51		2,6-Dinitrotoluene	0.299	0.294	1.7	100	0.00
52	C	Acenaphthene	1.086	1.048	3.5	101	0.00
53		3-Nitroaniline	0.292	0.299	-2.4	102	0.00
54	P	2,4-Dinitrophenol	0.122	0.122	0.0	89	0.00
55		Dibenzofuran	1.657	1.601	3.4	101	0.00
56	P	4-Nitrophenol	0.199	0.211	-6.0	104	0.00
57		2,4-Dinitrotoluene	0.397	0.407	-2.5	103	0.00
58		Fluorene	1.330	1.300	2.3	103	0.00
59		2,3,4,6-Tetrachlorophenol	0.306	0.320	-4.6	105	0.00
60		Diethylphthalate	1.338	1.307	2.3	102	0.00
61		4-Chlorophenyl-phenylether	0.653	0.645	1.2	103	0.00
62		4-Nitroaniline	0.306	0.309	-1.0	101	0.00
63		Azobenzene	1.267	1.248	1.5	103	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	0.102	0.105	-2.9	98	0.00
66	c	n-Nitrosodiphenylamine	0.591	0.573	3.0	102	0.00
67		4-Bromophenyl-phenylether	0.206	0.201	2.4	103	0.00
68		Hexachlorobenzene	0.238	0.232	2.5	102	0.00
69		Atrazine	0.166	0.144	13.3	106	0.00
70	C	Pentachlorophenol	0.105	0.112	-6.7	99	0.00
71		Phenanthrene	0.961	0.934	2.8	101	0.00
72		Anthracene	0.940	0.913	2.9	101	0.00
73		Carbazole	0.905	0.887	2.0	102	0.00
74		Di-n-butylphthalate	1.044	1.038	0.6	104	0.00
75	C	Fluoranthene	1.044	1.044	0.0	106	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	111	0.00
77		Benzidine	0.581	0.572	1.5	111	0.00
78		Pyrene	1.849	1.767	4.4	106	0.00
79	S	Terphenyl-d14	1.284	1.212	5.6	105	0.00
80		Butylbenzylphthalate	0.666	0.675	-1.4	111	0.00
81		Benzo(a)anthracene	1.324	1.315	0.7	114	0.00
82		3,3'-Dichlorobenzidine	0.397	0.408	-2.8	110	0.00
83		Chrysene	1.211	1.193	1.5	111	0.00
84		Bis(2-ethylhexyl)phthalate	0.841	0.880	-4.6	118	0.00
85	c	Di-n-octyl phthalate	1.150	1.264	-9.9	124	0.01
86	I	Perylene-d12	1.000	1.000	0.0	102	0.01
87		Indeno(1,2,3-cd)pyrene	1.303	1.271	2.5	99	0.01
88		Benzo(b)fluoranthene	1.256	1.283	-2.1	110	0.00
89		Benzo(k)fluoranthene	1.099	1.102	-0.3	102	0.01
90	C	Benzo(a)pyrene	1.021	1.022	-0.1	103	0.01
91		Dibenzo(a,h)anthracene	1.067	1.069	-0.2	102	0.01
92		Benzo(g,h,i)perylene	1.089	1.078	1.0	101	0.01

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
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Instrument :
BNA_F
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ICVBF112124

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	99	0.00
2		1,4-Dioxane	40.000	39.036	2.4	98	-0.01
3		Pyridine	40.000	44.701	-11.8	101	-0.01
4		n-Nitrosodimethylamine	40.000	41.184	-3.0	101	-0.01
5	S	2-Fluorophenol	80.000	79.009	1.2	98	0.00
6		Aniline	40.000	47.067	-17.7	102	0.00
7	S	Phenol-d6	80.000	81.459	-1.8	98	0.00
8		2-Chlorophenol	40.000	40.191	-0.5	98	0.00
9		Benzaldehyde	40.000	36.939	7.7	102	0.00
10	C	Phenol	40.000	41.030	-2.6	97	0.00
11		bis(2-Chloroethyl)ether	40.000	39.796	0.5	96	0.00
12		1,3-Dichlorobenzene	40.000	39.732	0.7	100	0.00
13	C	1,4-Dichlorobenzene	40.000	39.668	0.8	99	0.00
14		1,2-Dichlorobenzene	40.000	39.406	1.5	97	0.00
15		Benzyl Alcohol	40.000	41.993	-5.0	98	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	41.183	-3.0	100	0.00
17		2-Methylphenol	40.000	41.606	-4.0	100	0.00
18		Hexachloroethane	40.000	40.108	-0.3	99	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	42.038	-5.1	101	0.00
20		3+4-Methylphenols	40.000	41.536	-3.8	99	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	101	0.00
22		Acetophenone	40.000	38.963	2.6	100	0.00
23	S	Nitrobenzene-d5	80.000	78.907	1.4	99	0.00
24		Nitrobenzene	40.000	39.127	2.2	99	0.00
25		Isophorone	40.000	40.332	-0.8	100	0.00
26	C	2-Nitrophenol	40.000	40.372	-0.9	101	0.00
27		2,4-Dimethylphenol	40.000	39.568	1.1	95	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.938	0.2	101	0.00
29	C	2,4-Dichlorophenol	40.000	39.952	0.1	102	0.00
30		1,2,4-Trichlorobenzene	40.000	38.901	2.7	101	0.00
31		Naphthalene	40.000	39.152	2.1	101	0.00
32		Benzoic acid	40.000	41.429	-3.6	107	0.00
33		4-Chloroaniline	40.000	43.551	-8.9	104	0.00
34	C	Hexachlorobutadiene	40.000	39.406	1.5	101	0.00
35		Caprolactam	40.000	40.381	-1.0	99	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.203	-0.5	99	0.00
37		2-Methylnaphthalene	40.000	39.987	0.0	102	0.00
38		1-Methylnaphthalene	40.000	39.688	0.8	101	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.824	2.9	103	0.00
41	P	Hexachlorocyclopentadiene	40.000	37.711	5.7	99	0.00
42	S	2,4,6-Tribromophenol	80.000	79.677	0.4	101	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.390	1.5	101	0.00
44		2,4,5-Trichlorophenol	40.000	40.302	-0.8	102	0.00
45	S	2-Fluorobiphenyl	80.000	76.390	4.5	101	0.00
46		1,1'-Biphenyl	40.000	38.769	3.1	102	0.00
47		2-Chloronaphthalene	40.000	39.197	2.0	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	40.037	-0.1	101	0.00
49		Acenaphthylene	40.000	38.850	2.9	102	0.00
50		Dimethylphthalate	40.000	39.591	1.0	103	0.00
51		2,6-Dinitrotoluene	40.000	39.356	1.6	100	0.00
52	C	Acenaphthene	40.000	38.578	3.6	101	0.00
53		3-Nitroaniline	40.000	40.901	-2.3	102	0.00
54	P	2,4-Dinitrophenol	40.000	36.341	9.1	89	0.00
55		Dibenzofuran	40.000	38.644	3.4	101	0.00
56	P	4-Nitrophenol	40.000	42.263	-5.7	104	0.00
57		2,4-Dinitrotoluene	40.000	41.025	-2.6	103	0.00
58		Fluorene	40.000	39.115	2.2	103	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.797	-4.5	105	0.00
60		Diethylphthalate	40.000	39.078	2.3	102	0.00
61		4-Chlorophenyl-phenylether	40.000	39.536	1.2	103	0.00
62		4-Nitroaniline	40.000	40.369	-0.9	101	0.00
63		Azobenzene	40.000	39.396	1.5	103	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.134	-2.8	98	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.723	3.2	102	0.00
67		4-Bromophenyl-phenylether	40.000	38.977	2.6	103	0.00
68		Hexachlorobenzene	40.000	38.974	2.6	102	0.00
69		Atrazine	40.000	34.643	13.4	106	0.00
70	C	Pentachlorophenol	40.000	42.779	-6.9	99	0.00
71		Phenanthrene	40.000	38.861	2.8	101	0.00
72		Anthracene	40.000	38.829	2.9	101	0.00
73		Carbazole	40.000	39.207	2.0	102	0.00
74		Di-n-butylphthalate	40.000	39.765	0.6	104	0.00
75	C	Fluoranthene	40.000	40.002	-0.0	106	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	111	0.00
77		Benzidine	40.000	39.351	1.6	111	0.00
78		Pyrene	40.000	38.219	4.5	106	0.00
79	S	Terphenyl-d14	80.000	75.460	5.7	105	0.00
80		Butylbenzylphthalate	40.000	40.542	-1.4	111	0.00
81		Benzo(a)anthracene	40.000	39.723	0.7	114	0.00
82		3,3'-Dichlorobenzidine	40.000	41.011	-2.5	110	0.00
83		Chrysene	40.000	39.406	1.5	111	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.823	-4.6	118	0.00
85	c	Di-n-octyl phthalate	40.000	43.965	-9.9	124	0.01
86	I	Perylene-d12	20.000	20.000	0.0	102	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	38.995	2.5	99	0.01
88		Benzo(b)fluoranthene	40.000	40.850	-2.1	110	0.00
89		Benzo(k)fluoranthene	40.000	40.110	-0.3	102	0.01
90	C	Benzo(a)pyrene	40.000	40.041	-0.1	103	0.01
91		Dibenzo(a,h)anthracene	40.000	40.052	-0.1	102	0.01
92		Benzo(g,h,i)perylene	40.000	39.591	1.0	101	0.01

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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

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: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: BNA_F Calibration Date/Time: 12/06/2024 12:08

Lab File ID: BF140760.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.219		4.0	
Benzaldehyde	0.820	0.698		-14.9	
Phenol-d6	1.550	1.600		3.2	
Phenol	1.583	1.642		3.7	20.0
bis(2-Chloroethyl)ether	1.211	1.301		7.4	
2-Chlorophenol	1.261	1.329		5.4	
2-Methylphenol	1.010	1.049		3.9	
2,2-oxybis(1-Chloropropane)	1.431	1.467		2.5	
Acetophenone	0.488	0.519		6.4	
3+4-Methylphenols	1.298	1.394		7.4	
n-Nitroso-di-n-propylamine	0.916	0.954	0.050	4.1	
Nitrobenzene-d5	0.391	0.403		3.1	
Hexachloroethane	0.536	0.558		4.1	
Nitrobenzene	0.404	0.418		3.5	
Isophorone	0.652	0.688		5.5	
2-Nitrophenol	0.179	0.197		10.1	20.0
2,4-Dimethylphenol	0.214	0.240		12.1	
bis(2-Chloroethoxy)methane	0.397	0.431		8.6	
2,4-Dichlorophenol	0.284	0.310		9.2	20.0
Naphthalene	1.030	1.097		6.5	
4-Chloroaniline	0.308	0.343		11.4	
Hexachlorobutadiene	0.215	0.231		7.4	20.0
Caprolactam	0.088	0.093		5.7	
4-Chloro-3-methylphenol	0.318	0.340		6.9	20.0
2-Methylnaphthalene	0.654	0.711		8.7	
Hexachlorocyclopentadiene	0.107	0.127	0.050	18.7	
2,4,6-Trichlorophenol	0.367	0.389		6.0	20.0
2-Fluorobiphenyl	1.342	1.395		3.9	
2,4,5-Trichlorophenol	0.399	0.420		5.3	
1,1-Biphenyl	1.493	1.572		5.3	
2-Chloronaphthalene	1.131	1.192		5.4	
2-Nitroaniline	0.363	0.365		0.6	
Dimethylphthalate	1.317	1.408		6.9	
Acenaphthylene	1.710	1.791		4.7	
2,6-Dinitrotoluene	0.299	0.319		6.7	
3-Nitroaniline	0.292	0.309		5.8	
Acenaphthene	1.086	1.128		3.9	20.0
2,4-Dinitrophenol	0.122	0.186	0.050	52.5	
4-Nitrophenol	0.199	0.251	0.050	26.1	

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: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: BNA_F Calibration Date/Time: 12/06/2024 12:08

Lab File ID: BF140760.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.698		2.5	
2,4-Dinitrotoluene	0.397	0.428		7.8	
Diethylphthalate	1.338	1.450		8.4	
4-Chlorophenyl-phenylether	0.653	0.719		10.1	
Fluorene	1.330	1.400		5.3	
4-Nitroaniline	0.306	0.318		3.9	
4,6-Dinitro-2-methylphenol	0.102	0.125		22.5	
n-Nitrosodiphenylamine	0.591	0.622		5.2	20.0
2,4,6-Tribromophenol	0.214	0.232		8.4	
4-Bromophenyl-phenylether	0.206	0.229		11.2	
Hexachlorobenzene	0.238	0.255		7.1	
Atrazine	0.166	0.141		-15.1	
Pentachlorophenol	0.105	0.108		2.9	20.0
Phenanthrene	0.961	1.011		5.2	
Anthracene	0.940	1.001		6.5	
Carbazole	0.905	0.968		7.0	
Di-n-butylphthalate	1.044	1.208		15.7	
Fluoranthene	1.044	1.149		10.1	20.0
Pyrene	1.849	1.921		3.9	
Terphenyl-d14	1.284	1.356		5.6	
Butylbenzylphthalate	0.666	0.741		11.3	
3,3-Dichlorobenzidine	0.397	0.427		7.6	
Benzo(a)anthracene	1.324	1.390		5.0	
Chrysene	1.211	1.297		7.1	
Bis(2-ethylhexyl)phthalate	0.841	0.902		7.3	
Di-n-octyl phthalate	1.150	1.265		10.0	20.0
Benzo(b)fluoranthene	1.256	1.335		6.3	
Benzo(k)fluoranthene	1.099	1.193		8.6	
Benzo(a)pyrene	1.021	1.094		7.2	20.0
Indeno(1,2,3-cd)pyrene	1.303	1.417		8.7	
Dibenzo(a,h)anthracene	1.067	1.180		10.6	
Benzo(g,h,i)perylene	1.089	1.194		9.6	
1,2,4,5-Tetrachlorobenzene	0.586	0.622		6.1	
1,4-Dioxane	0.493	0.492		-0.2	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.357		16.7	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/10/2024
Supervised By :mohammad ahmed 12/10/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	95022	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	350541	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	200131	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	378576	20.000	ng		0.00
76) Chrysene-d12	14.057	240	226669	20.000	ng		0.00
86) Perylene-d12	15.557	264	194773	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	463145	83.162	ng		0.00
7) Phenol-d6	6.522	99	608048	82.586	ng		0.00
23) Nitrobenzene-d5	7.439	82	565572	82.527	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	185527	86.678	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1116690	83.136	ng		0.00
79) Terphenyl-d14	12.992	244	1229771	84.481	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	93419	39.896	ng		97
3) Pyridine	3.410	79	213359	41.413	ng		98
4) n-Nitrosodimethylamine	3.375	42	114897	37.945	ng		92
6) Aniline	6.540	93	218389	42.142	ng	#	65
8) 2-Chlorophenol	6.669	128	252651	42.168	ng		95
9) Benzaldehyde	6.428	77	132603	34.021	ng		99
10) Phenol	6.534	94	312090	41.507	ng		100
11) bis(2-Chloroethyl)ether	6.610	93	247211	42.965	ng		98
12) 1,3-Dichlorobenzene	6.816	146	282952	42.028	ng		98
13) 1,4-Dichlorobenzene	6.892	146	287227	42.135	ng		99
14) 1,2-Dichlorobenzene	7.045	146	270520	42.351	ng		100
15) Benzyl Alcohol	7.022	79	219297	40.164	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	278783	41.013	ng		65
17) 2-Methylphenol	7.139	107	199403	41.575	ng		96
18) Hexachloroethane	7.381	117	106056	41.656	ng		99
19) n-Nitroso-di-n-propyla...	7.292	70	181231	41.650	ng		96
20) 3+4-Methylphenols	7.292	107	264848	42.961	ng	#	87
22) Acetophenone	7.287	105	363650	42.552	ng		95
24) Nitrobenzene	7.463	77	292812	41.340	ng		98
25) Isophorone	7.698	82	482161	42.182	ng		99
26) 2-Nitrophenol	7.775	139	137770	43.892	ng		96
27) 2,4-Dimethylphenol	7.816	122	168427m	44.847	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	302116	43.386	ng		99
29) 2,4-Dichlorophenol	8.034	162	217386	43.683	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	244202	42.979	ng		99
31) Naphthalene	8.175	128	768801	42.579	ng		99
32) Benzoic acid	7.969	122	142696	44.312	ng		99
33) 4-Chloroaniline	8.239	127	240385	44.466	ng		98
34) Hexachlorobutadiene	8.286	225	162294	43.124	ng		99
35) Caprolactam	8.610	113	65437m	42.490	ng		
36) 4-Chloro-3-methylphenol	8.722	107	238533	42.811	ng		98
37) 2-Methylnaphthalene	8.869	142	498281	43.448	ng		100
38) 1-Methylnaphthalene	8.969	142	486995	43.322	ng		100
40) 1,2,4,5-Tetrachloroben...	9.033	216	249157	42.527	ng		99
41) Hexachlorocyclopentadiene	9.016	237	50634	42.236	ng		97
43) 2,4,6-Trichlorophenol	9.151	196	155875	42.399	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/10/2024
Supervised By :mohammad ahmed 12/10/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	168238	42.166	ng	97
46) 1,1'-Biphenyl	9.333	154	629274	42.115	ng	100
47) 2-Chloronaphthalene	9.357	162	477280	42.156	ng	99
48) 2-Nitroaniline	9.463	65	145911	40.151	ng	94
49) Acenaphthylene	9.775	152	717035	41.916	ng	100
50) Dimethylphthalate	9.633	163	563665	42.765	ng	99
51) 2,6-Dinitrotoluene	9.704	165	127633	42.697	ng	94
52) Acenaphthene	9.945	154	451633	41.551	ng	99
53) 3-Nitroaniline	9.880	138	123808	42.347	ng	94
54) 2,4-Dinitrophenol	9.992	184	74516	51.248	ng	96
55) Dibenzofuran	10.122	168	679609	40.992	ng	99
56) 4-Nitrophenol	10.063	139	100350	50.328	ng	90
57) 2,4-Dinitrotoluene	10.110	165	171137	43.077	ng	95
58) Fluorene	10.463	166	560503	42.119	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	142948	46.618	ng	91
60) Diethylphthalate	10.333	149	580417	43.342	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	287968	44.094	ng	97
62) 4-Nitroaniline	10.498	138	127283	41.509	ng	93
63) Azobenzene	10.610	77	535941	42.261	ng	99
65) 4,6-Dinitro-2-methylph...	10.527	198	94268	48.729	ng	94
66) n-Nitrosodiphenylamine	10.575	169	471041	42.074	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	173133	44.407	ng	98
68) Hexachlorobenzene	11.016	284	192983	42.749	ng	99
69) Atrazine	11.098	200	107009	33.976	ng	99
70) Pentachlorophenol	11.216	266	81485	41.011	ng	98
71) Phenanthrene	11.427	178	765771	42.080	ng	99
72) Anthracene	11.480	178	758054	42.585	ng	100
73) Carbazole	11.639	167	733087	42.809	ng	100
74) Di-n-butylphthalate	11.957	149	914738	46.268	ng	100
75) Fluoranthene	12.621	202	869670	44.016	ng	100
77) Benzidine	12.751	184	251775	38.204	ng	99
78) Pyrene	12.851	202	870836	41.551	ng	100
80) Butylbenzylphthalate	13.457	149	335823	44.480	ng	97
81) Benzo(a)anthracene	14.045	228	630269	42.005	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	193591	42.973	ng	98
83) Chrysene	14.086	228	587775	42.841	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	408858	42.886	ng	99
85) Di-n-octyl phthalate	14.639	149	573400	44.010	ng	98
87) Indeno(1,2,3-cd)pyrene	17.086	276	551817	43.474	ng	99
88) Benzo(b)fluoranthene	15.121	252	520105	42.513	ng	100
89) Benzo(k)fluoranthene	15.151	252	464543	43.392	ng	100
90) Benzo(a)pyrene	15.498	252	426071	42.833	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	459567	44.209	ng	99
92) Benzo(g,h,i)perylene	17.545	276	465177	43.853	ng	99

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

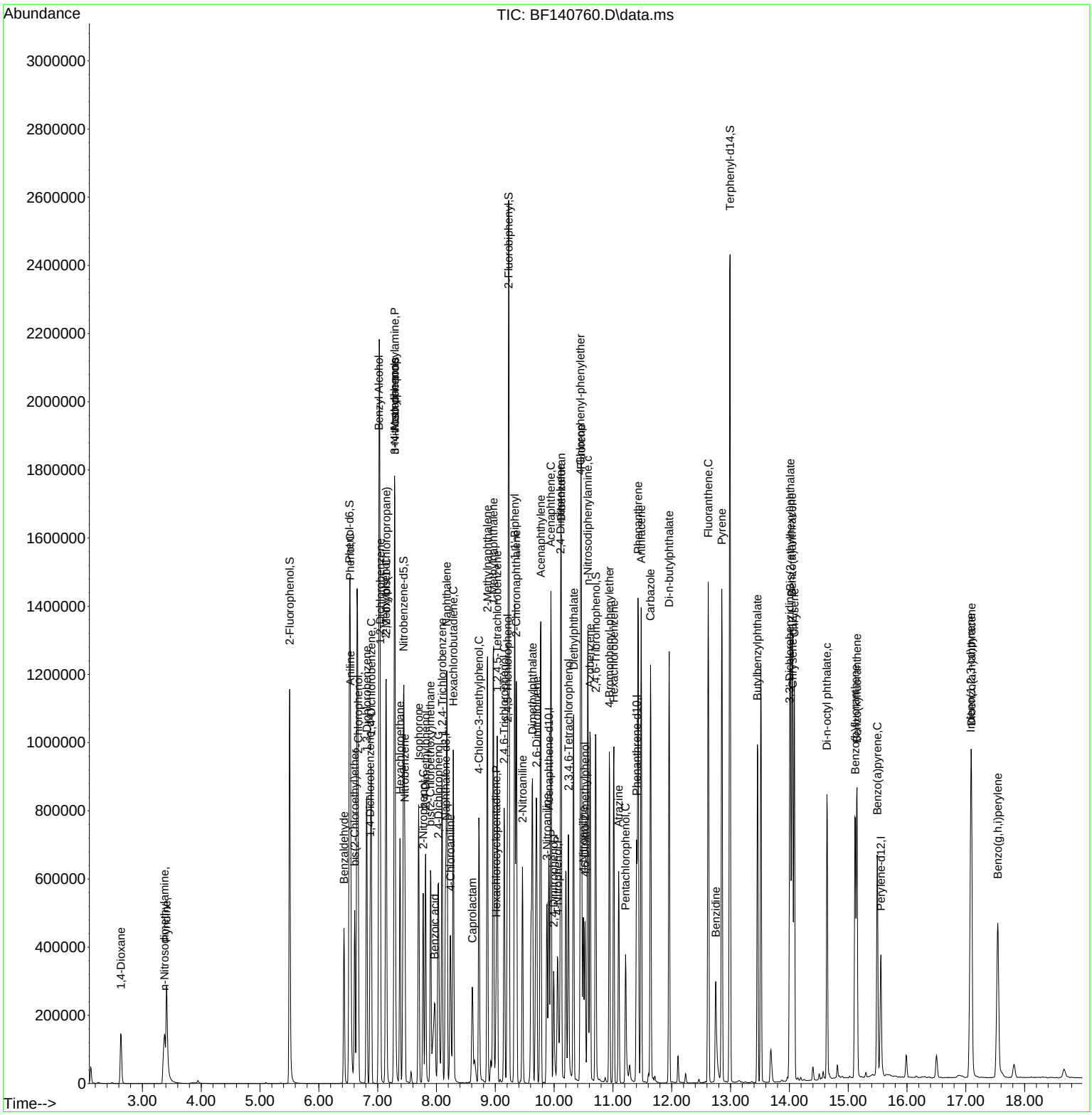
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/10/2024
Supervised By :mohammad ahmed 12/10/2024



Sample Results: **BF140760.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	0.493	0.492	0.2	89	-0.02
3		Pyridine	1.084	1.123	-3.6	83	-0.01
4		n-Nitrosodimethylamine	0.637	0.605	5.0	82	0.00
5	S	2-Fluorophenol	1.172	1.219	-4.0	92	0.00
6		Aniline	1.091	1.149	-5.3	81	0.00
7	S	Phenol-d6	1.550	1.600	-3.2	88	0.00
8		2-Chlorophenol	1.261	1.329	-5.4	92	0.00
9		Benzaldehyde	0.820	0.698	14.9	84	0.00
10	C	Phenol	1.583	1.642	-3.7	87	0.00
11		bis(2-Chloroethyl)ether	1.211	1.301	-7.4	92	0.00
12		1,3-Dichlorobenzene	1.417	1.489	-5.1	94	0.00
13	C	1,4-Dichlorobenzene	1.435	1.511	-5.3	94	0.00
14		1,2-Dichlorobenzene	1.344	1.423	-5.9	93	0.00
15		Benzyl Alcohol	1.149	1.154	-0.4	83	0.00
16		2,2'-oxybis(1-Chloropropane	1.431	1.467	-2.5	89	0.00
17		2-Methylphenol	1.009	1.049	-4.0	89	0.00
18		Hexachloroethane	0.536	0.558	-4.1	92	0.00
19	P	n-Nitroso-di-n-propylamine	0.916	0.954	-4.1	89	0.00
20		3+4-Methylphenols	1.298	1.394	-7.4	91	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00
22		Acetophenone	0.488	0.519	-6.4	91	0.00
23	S	Nitrobenzene-d5	0.391	0.403	-3.1	87	0.00
24		Nitrobenzene	0.404	0.418	-3.5	88	0.00
25		Isophorone	0.652	0.688	-5.5	88	0.00
26	C	2-Nitrophenol	0.179	0.197	-10.1	92	0.00
27		2,4-Dimethylphenol	0.214	0.240	-12.1	91	0.00
28		bis(2-Chloroethoxy)methane	0.397	0.431	-8.6	92	0.00
29	C	2,4-Dichlorophenol	0.284	0.310	-9.2	93	0.02
30		1,2,4-Trichlorobenzene	0.324	0.348	-7.4	93	0.00
31		Naphthalene	1.030	1.097	-6.5	92	0.00
32		Benzoic acid	0.164	0.204	-24.4	98	0.03
33		4-Chloroaniline	0.308	0.343	-11.4	89	0.01
34	C	Hexachlorobutadiene	0.215	0.231	-7.4	93	0.00
35		Caprolactam	0.088	0.093	-5.7	88	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.340	-6.9	88	0.00
37		2-Methylnaphthalene	0.654	0.711	-8.7	93	0.00
38		1-Methylnaphthalene	0.641	0.695	-8.4	92	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00
40		1,2,4,5-Tetrachlorobenzene	0.586	0.622	-6.1	94	0.00
41	P	Hexachlorocyclopentadiene	0.107	0.127	-18.7	95	0.00
42	S	2,4,6-Tribromophenol	0.214	0.232	-8.4	92	0.00
43	C	2,4,6-Trichlorophenol	0.367	0.389	-6.0	91	0.00
44		2,4,5-Trichlorophenol	0.399	0.420	-5.3	89	0.02
45	S	2-Fluorobiphenyl	1.342	1.395	-3.9	92	0.00
46		1,1'-Biphenyl	1.493	1.572	-5.3	93	0.00
47		2-Chloronaphthalene	1.131	1.192	-5.4	92	0.00

Sample Results: **BF140760.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	0.363	0.365	-0.6	85	0.00
49		Acenaphthylene	1.710	1.791	-4.7	92	0.00
50		Dimethylphthalate	1.317	1.408	-6.9	93	0.00
51		2,6-Dinitrotoluene	0.299	0.319	-6.7	91	0.00
52	C	Acenaphthene	1.086	1.128	-3.9	91	0.00
53		3-Nitroaniline	0.292	0.309	-5.8	88	0.01
54	P	2,4-Dinitrophenol	0.122	0.186	-52.5#	114	0.01
55		Dibenzofuran	1.657	1.698	-2.5	89	0.00
56	P	4-Nitrophenol	0.199	0.251	-26.1#	103	0.02
57		2,4-Dinitrotoluene	0.397	0.428	-7.8	90	0.00
58		Fluorene	1.330	1.400	-5.3	92	0.00
59		2,3,4,6-Tetrachlorophenol	0.306	0.357	-16.7	98	0.00
60		Diethylphthalate	1.338	1.450	-8.4	94	0.00
61		4-Chlorophenyl-phenylether	0.653	0.719	-10.1	96	0.00
62		4-Nitroaniline	0.306	0.318	-3.9	87	0.01
63		Azobenzene	1.267	1.339	-5.7	93	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00
65		4,6-Dinitro-2-methylphenol	0.102	0.125	-22.5	98	0.01
66	c	n-Nitrosodiphenylamine	0.591	0.622	-5.2	93	0.00
67		4-Bromophenyl-phenylether	0.206	0.229	-11.2	99	0.00
68		Hexachlorobenzene	0.238	0.255	-7.1	95	0.00
69		Atrazine	0.166	0.141	15.1	87	0.00
70	C	Pentachlorophenol	0.105	0.108	-2.9	80	0.00
71		Phenanthrene	0.961	1.011	-5.2	93	0.00
72		Anthracene	0.940	1.001	-6.5	94	0.00
73		Carbazole	0.905	0.968	-7.0	94	0.00
74		Di-n-butylphthalate	1.044	1.208	-15.7	102	0.00
75	C	Fluoranthene	1.044	1.149	-10.1	98	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
77		Benzidine	0.581	0.555	4.5	92	0.01
78		Pyrene	1.849	1.921	-3.9	98	0.00
79	S	Terphenyl-d14	1.284	1.356	-5.6	100	0.00
80		Butylbenzylphthalate	0.666	0.741	-11.3	103	0.00
81		Benzo(a)anthracene	1.324	1.390	-5.0	102	0.00
82		3,3'-Dichlorobenzidine	0.397	0.427	-7.6	98	0.00
83		Chrysene	1.211	1.297	-7.1	102	0.00
84		Bis(2-ethylhexyl)phthalate	0.841	0.902	-7.3	103	0.00
85	c	Di-n-octyl phthalate	1.150	1.265	-10.0	106	0.00
86	I	Perylene-d12	1.000	1.000	0.0	92	0.02
87		Indeno(1,2,3-cd)pyrene	1.303	1.417	-8.7	100	0.04
88		Benzo(b)fluoranthene	1.256	1.335	-6.3	104	0.02
89		Benzo(k)fluoranthene	1.099	1.193	-8.6	100	0.02
90	C	Benzo(a)pyrene	1.021	1.094	-7.1	100	0.02
91		Dibenzo(a,h)anthracene	1.067	1.180	-10.6	102	0.04
92		Benzo(g,h,i)perylene	1.089	1.194	-9.6	101	0.04

Sample Results: **BF140760.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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: **BF140760.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	39.896	0.3	89	-0.02
3		Pyridine	40.000	41.413	-3.5	83	-0.01
4		n-Nitrosodimethylamine	40.000	37.945	5.1	82	0.00
5	S	2-Fluorophenol	80.000	83.162	-4.0	92	0.00
6		Aniline	40.000	42.142	-5.4	81	0.00
7	S	Phenol-d6	80.000	82.586	-3.2	88	0.00
8		2-Chlorophenol	40.000	42.168	-5.4	92	0.00
9		Benzaldehyde	40.000	34.021	14.9	84	0.00
10	C	Phenol	40.000	41.507	-3.8	87	0.00
11		bis(2-Chloroethyl)ether	40.000	42.965	-7.4	92	0.00
12		1,3-Dichlorobenzene	40.000	42.028	-5.1	94	0.00
13	C	1,4-Dichlorobenzene	40.000	42.135	-5.3	94	0.00
14		1,2-Dichlorobenzene	40.000	42.351	-5.9	93	0.00
15		Benzyl Alcohol	40.000	40.164	-0.4	83	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	41.013	-2.5	89	0.00
17		2-Methylphenol	40.000	41.575	-3.9	89	0.00
18		Hexachloroethane	40.000	41.656	-4.1	92	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	41.650	-4.1	89	0.00
20		3+4-Methylphenols	40.000	42.961	-7.4	91	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	85	0.00
22		Acetophenone	40.000	42.552	-6.4	91	0.00
23	S	Nitrobenzene-d5	80.000	82.527	-3.2	87	0.00
24		Nitrobenzene	40.000	41.340	-3.4	88	0.00
25		Isophorone	40.000	42.182	-5.5	88	0.00
26	C	2-Nitrophenol	40.000	43.892	-9.7	92	0.00
27		2,4-Dimethylphenol	40.000	44.847	-12.1	91	0.00
28		bis(2-Chloroethoxy)methane	40.000	43.386	-8.5	92	0.00
29	C	2,4-Dichlorophenol	40.000	43.683	-9.2	93	0.02
30		1,2,4-Trichlorobenzene	40.000	42.979	-7.4	93	0.00
31		Naphthalene	40.000	42.579	-6.4	92	0.00
32		Benzoic acid	40.000	44.312	-10.8	98	0.03
33		4-Chloroaniline	40.000	44.466	-11.2	89	0.01
34	C	Hexachlorobutadiene	40.000	43.124	-7.8	93	0.00
35		Caprolactam	40.000	42.490	-6.2	88	0.00
36	C	4-Chloro-3-methylphenol	40.000	42.811	-7.0	88	0.00
37		2-Methylnaphthalene	40.000	43.448	-8.6	93	0.00
38		1-Methylnaphthalene	40.000	43.322	-8.3	92	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	85	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	42.527	-6.3	94	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.236	-5.6	95	0.00
42	S	2,4,6-Tribromophenol	80.000	86.678	-8.3	92	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.399	-6.0	91	0.00
44		2,4,5-Trichlorophenol	40.000	42.166	-5.4	89	0.02
45	S	2-Fluorobiphenyl	80.000	83.136	-3.9	92	0.00
46		1,1'-Biphenyl	40.000	42.115	-5.3	93	0.00
47		2-Chloronaphthalene	40.000	42.156	-5.4	92	0.00

Sample Results: **BF140760.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	40.151	-0.4	85	0.00
49		Acenaphthylene	40.000	41.916	-4.8	92	0.00
50		Dimethylphthalate	40.000	42.765	-6.9	93	0.00
51		2,6-Dinitrotoluene	40.000	42.697	-6.7	91	0.00
52	C	Acenaphthene	40.000	41.551	-3.9	91	0.00
53		3-Nitroaniline	40.000	42.347	-5.9	88	0.01
54	P	2,4-Dinitrophenol	40.000	51.248	-28.1#	114	0.01
55		Dibenzofuran	40.000	40.992	-2.5	89	0.00
56	P	4-Nitrophenol	40.000	50.328	-25.8#	103	0.02
57		2,4-Dinitrotoluene	40.000	43.077	-7.7	90	0.00
58		Fluorene	40.000	42.119	-5.3	92	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	46.618	-16.5	98	0.00
60		Diethylphthalate	40.000	43.342	-8.4	94	0.00
61		4-Chlorophenyl-phenylether	40.000	44.094	-10.2	96	0.00
62		4-Nitroaniline	40.000	41.509	-3.8	87	0.01
63		Azobenzene	40.000	42.261	-5.7	93	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	87	0.00
65		4,6-Dinitro-2-methylphenol	40.000	48.729	-21.8	98	0.01
66	c	n-Nitrosodiphenylamine	40.000	42.074	-5.2	93	0.00
67		4-Bromophenyl-phenylether	40.000	44.407	-11.0	99	0.00
68		Hexachlorobenzene	40.000	42.749	-6.9	95	0.00
69		Atrazine	40.000	33.976	15.1	87	0.00
70	C	Pentachlorophenol	40.000	41.011	-2.5	80	0.00
71		Phenanthrene	40.000	42.080	-5.2	93	0.00
72		Anthracene	40.000	42.585	-6.5	94	0.00
73		Carbazole	40.000	42.809	-7.0	94	0.00
74		Di-n-butylphthalate	40.000	46.268	-15.7	102	0.00
75	C	Fluoranthene	40.000	44.016	-10.0	98	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	95	0.00
77		Benzidine	40.000	38.204	4.5	92	0.01
78		Pyrene	40.000	41.551	-3.9	98	0.00
79	S	Terphenyl-d14	80.000	84.481	-5.6	100	0.00
80		Butylbenzylphthalate	40.000	44.480	-11.2	103	0.00
81		Benzo(a)anthracene	40.000	42.005	-5.0	102	0.00
82		3,3'-Dichlorobenzidine	40.000	42.973	-7.4	98	0.00
83		Chrysene	40.000	42.841	-7.1	102	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	42.886	-7.2	103	0.00
85	c	Di-n-octyl phthalate	40.000	44.010	-10.0	106	0.00
86	I	Perylene-d12	20.000	20.000	0.0	92	0.02
87		Indeno(1,2,3-cd)pyrene	40.000	43.474	-8.7	100	0.04
88		Benzo(b)fluoranthene	40.000	42.513	-6.3	104	0.02
89		Benzo(k)fluoranthene	40.000	43.392	-8.5	100	0.02
90	C	Benzo(a)pyrene	40.000	42.833	-7.1	100	0.02
91		Dibenzo(a,h)anthracene	40.000	44.209	-10.5	102	0.04
92		Benzo(g,h,i)perylene	40.000	43.853	-9.6	101	0.04

Sample Results: **BF140760.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140760.D
Acq On : 06 Dec 2024 12:08
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 06 11:51:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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: **BF140783.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: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: BNA_F Calibration Date/Time: 12/09/2024 12:21

Lab File ID: BF140783.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.252		6.8	
Benzaldehyde	0.820	0.777		-5.2	
Phenol-d6	1.550	1.644		6.1	
Phenol	1.583	1.729		9.2	20.0
bis(2-Chloroethyl)ether	1.211	1.284		6.0	
2-Chlorophenol	1.261	1.362		8.0	
2-Methylphenol	1.010	1.067		5.6	
2,2-oxybis(1-Chloropropane)	1.431	1.462		2.2	
Acetophenone	0.488	0.510		4.5	
3+4-Methylphenols	1.298	1.393		7.3	
n-Nitroso-di-n-propylamine	0.916	0.933	0.050	1.9	
Nitrobenzene-d5	0.391	0.405		3.6	
Hexachloroethane	0.536	0.553		3.2	
Nitrobenzene	0.404	0.419		3.7	
Isophorone	0.652	0.669		2.6	
2-Nitrophenol	0.179	0.193		7.8	20.0
2,4-Dimethylphenol	0.214	0.242		13.1	
bis(2-Chloroethoxy)methane	0.397	0.410		3.3	
2,4-Dichlorophenol	0.284	0.306		7.7	20.0
Naphthalene	1.030	1.084		5.2	
4-Chloroaniline	0.308	0.350		13.6	
Hexachlorobutadiene	0.215	0.221		2.8	20.0
Caprolactam	0.088	0.096		9.1	
4-Chloro-3-methylphenol	0.318	0.339		6.6	20.0
2-Methylnaphthalene	0.654	0.686		4.9	
Hexachlorocyclopentadiene	0.107	0.093	0.050	-13.1	
2,4,6-Trichlorophenol	0.367	0.387		5.4	20.0
2-Fluorobiphenyl	1.342	1.398		4.2	
2,4,5-Trichlorophenol	0.399	0.423		6.0	
1,1-Biphenyl	1.493	1.561		4.6	
2-Chloronaphthalene	1.131	1.196		5.7	
2-Nitroaniline	0.363	0.389		7.2	
Dimethylphthalate	1.317	1.364		3.6	
Acenaphthylene	1.710	1.810		5.8	
2,6-Dinitrotoluene	0.299	0.321		7.4	
3-Nitroaniline	0.292	0.333		14.0	
Acenaphthene	1.086	1.135		4.5	20.0
2,4-Dinitrophenol	0.122	0.184	0.050	50.8	
4-Nitrophenol	0.199	0.291	0.050	46.2	

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: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG No.: P5093

Instrument ID: BNA_F Calibration Date/Time: 12/09/2024 12:21

Lab File ID: BF140783.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.724		4.0	
2,4-Dinitrotoluene	0.397	0.431		8.6	
Diethylphthalate	1.338	1.355		1.3	
4-Chlorophenyl-phenylether	0.653	0.672		2.9	
Fluorene	1.330	1.417		6.5	
4-Nitroaniline	0.306	0.358		17.0	
4,6-Dinitro-2-methylphenol	0.102	0.124		21.6	
n-Nitrosodiphenylamine	0.591	0.617		4.4	20.0
2,4,6-Tribromophenol	0.214	0.229		7.0	
4-Bromophenyl-phenylether	0.206	0.214		3.9	
Hexachlorobenzene	0.238	0.251		5.5	
Atrazine	0.166	0.133		-19.9	
Pentachlorophenol	0.105	0.101		-3.8	20.0
Phenanthrene	0.961	1.015		5.6	
Anthracene	0.940	1.016		8.1	
Carbazole	0.905	1.008		11.4	
Di-n-butylphthalate	1.044	1.069		2.4	
Fluoranthene	1.044	1.160		11.1	20.0
Pyrene	1.849	1.922		3.9	
Terphenyl-d14	1.284	1.290		0.5	
Butylbenzylphthalate	0.666	0.652		-2.1	
3,3-Dichlorobenzidine	0.397	0.429		8.1	
Benzo(a)anthracene	1.324	1.384		4.5	
Chrysene	1.211	1.274		5.2	
Bis(2-ethylhexyl)phthalate	0.841	0.740		-12.0	
Di-n-octyl phthalate	1.150	0.959		-16.6	20.0
Benzo(b)fluoranthene	1.256	1.432		14.0	
Benzo(k)fluoranthene	1.099	1.064		-3.2	
Benzo(a)pyrene	1.021	1.084		6.2	20.0
Indeno(1,2,3-cd)pyrene	1.303	1.386		6.4	
Dibenzo(a,h)anthracene	1.067	1.139		6.7	
Benzo(g,h,i)perylene	1.089	1.196		9.8	
1,2,4,5-Tetrachlorobenzene	0.586	0.615		4.9	
1,4-Dioxane	0.493	0.543		10.1	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.341		11.4	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.863	152	92885	20.000	ng		-0.01
21) Naphthalene-d8	8.145	136	346239	20.000	ng		-0.01
39) Acenaphthene-d10	9.904	164	189814	20.000	ng		-0.01
64) Phenanthrene-d10	11.398	188	363500	20.000	ng		0.00
76) Chrysene-d12	14.051	240	224946	20.000	ng		0.00
86) Perylene-d12	15.551	264	187010	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	465317	85.474	ng		0.00
7) Phenol-d6	6.510	99	610888	84.881	ng		0.00
23) Nitrobenzene-d5	7.434	82	560358	82.782	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	173577	85.503	ng		0.00
45) 2-Fluorobiphenyl	9.222	172	1061518	83.324	ng		-0.01
79) Terphenyl-d14	12.980	244	1160825	80.355	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.616	88	100896	44.081	ng		97
3) Pyridine	3.387	79	226988	45.072	ng		99
4) n-Nitrosodimethylamine	3.352	42	123101	41.590	ng		95
6) Aniline	6.534	93	238703	47.122	ng		89
8) 2-Chlorophenol	6.657	128	253095	43.213	ng		96
9) Benzaldehyde	6.422	77	144377	37.894	ng		97
10) Phenol	6.528	94	321134	43.692	ng		96
11) bis(2-Chloroethyl)ether	6.604	93	238461	42.398	ng		99
12) 1,3-Dichlorobenzene	6.804	146	276244	41.976	ng		99
13) 1,4-Dichlorobenzene	6.881	146	283097	42.484	ng		99
14) 1,2-Dichlorobenzene	7.034	146	263935	42.270	ng		99
15) Benzyl Alcohol	7.016	79	219516	41.129	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.140	45	271607	40.876	ng		79
17) 2-Methylphenol	7.134	107	198206	42.276	ng		95
18) Hexachloroethane	7.375	117	102767	41.293	ng		98
19) n-Nitroso-di-n-propyla...	7.281	70	173362	40.758	ng		97
20) 3+4-Methylphenols	7.287	107	258788	42.944	ng	#	79
22) Acetophenone	7.275	105	352947	41.813	ng		94
24) Nitrobenzene	7.451	77	290315	41.497	ng		98
25) Isophorone	7.687	82	463484	41.052	ng		99
26) 2-Nitrophenol	7.769	139	133835	43.168	ng		94
27) 2,4-Dimethylphenol	7.804	122	167383m	45.123	ng		
28) bis(2-Chloroethoxy)met...	7.892	93	283632	41.237	ng		99
29) 2,4-Dichlorophenol	8.022	162	211966	43.123	ng		97
30) 1,2,4-Trichlorobenzene	8.087	180	236722	42.180	ng		99
31) Naphthalene	8.169	128	750453	42.079	ng		99
32) Benzoic acid	7.957	122	137515	43.409	ng		98
33) 4-Chloroaniline	8.228	127	242443	45.404	ng		98
34) Hexachlorobutadiene	8.281	225	153128	41.194	ng		99
35) Caprolactam	8.598	113	66720	43.862	ng		98
36) 4-Chloro-3-methylphenol	8.716	107	234815	42.668	ng		100
37) 2-Methylnaphthalene	8.857	142	475327	41.962	ng		100
38) 1-Methylnaphthalene	8.957	142	468155	42.163	ng		99
40) 1,2,4,5-Tetrachloroben...	9.028	216	233383	41.999	ng		99
41) Hexachlorocyclopentadiene	9.010	237	35211	32.913	ng		97
43) 2,4,6-Trichlorophenol	9.145	196	147039	42.170	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

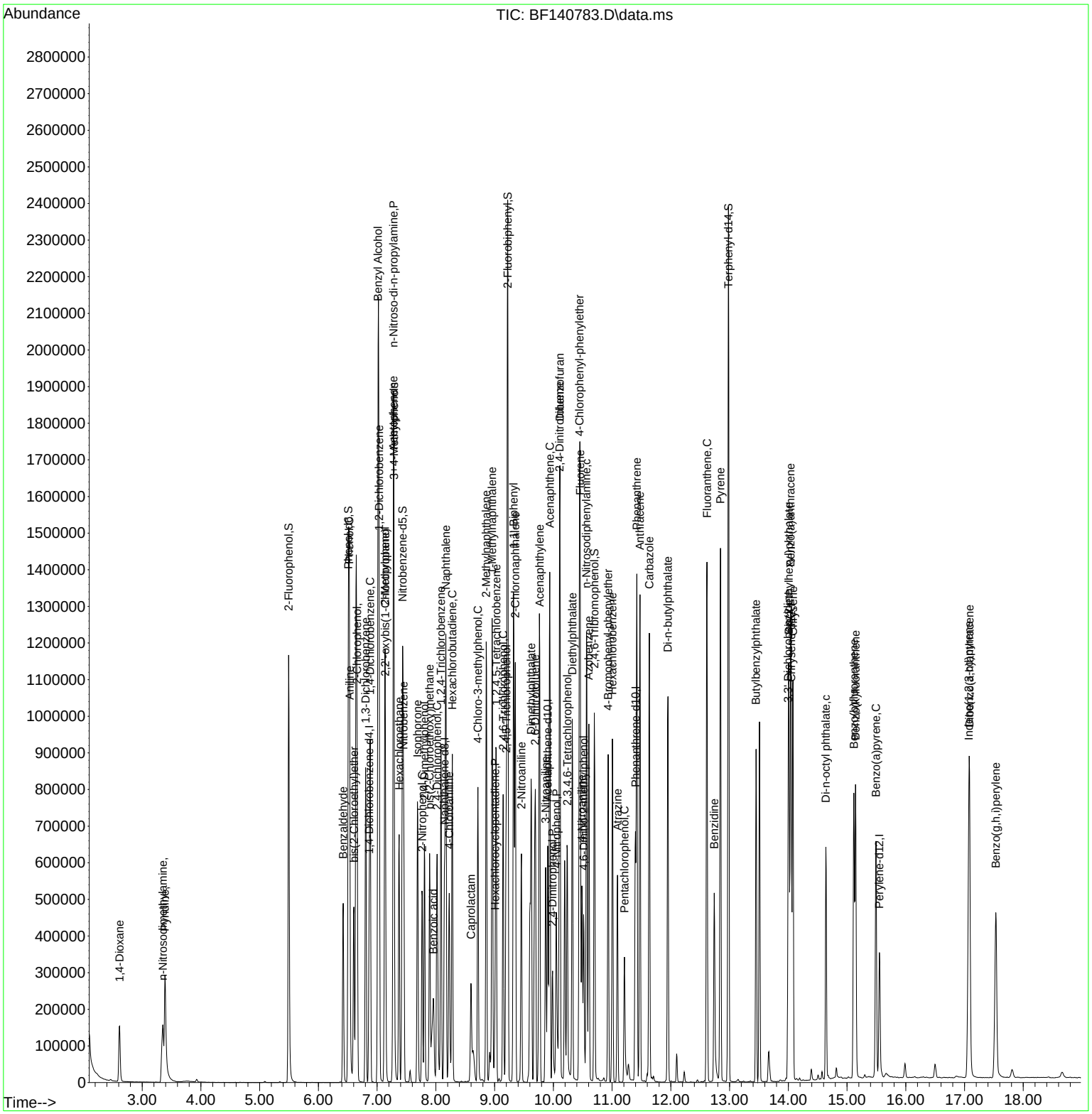
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	160393	42.385	ng	97
46) 1,1'-Biphenyl	9.322	154	592420	41.803	ng	100
47) 2-Chloronaphthalene	9.351	162	454016	42.280	ng	99
48) 2-Nitroaniline	9.457	65	147770	42.872	ng	95
49) Acenaphthylene	9.769	152	687115	42.350	ng	100
50) Dimethylphthalate	9.622	163	517989	41.436	ng	100
51) 2,6-Dinitrotoluene	9.692	165	121961	43.017	ng	99
52) Acenaphthene	9.939	154	431042	41.812	ng	99
53) 3-Nitroaniline	9.869	138	126289	45.543	ng	94
54) 2,4-Dinitrophenol	9.986	184	69941	50.797	ng	93
55) Dibenzofuran	10.110	168	654473	41.621	ng	100
56) 4-Nitrophenol	10.051	139	110649	58.509	ng	92
57) 2,4-Dinitrotoluene	10.104	165	163601	43.418	ng	95
58) Fluorene	10.457	166	537820	42.611	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	129536	44.540	ng	92
60) Diethylphthalate	10.322	149	514575	40.514	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	255101	41.184	ng	98
62) 4-Nitroaniline	10.486	138	136029	46.773	ng	95
63) Azobenzene	10.604	77	491918	40.898	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	89900	48.398	ng	98
66) n-Nitrosodiphenylamine	10.563	169	448621	41.734	ng	99
67) 4-Bromophenyl-phenylether	10.933	248	155300	41.485	ng	96
68) Hexachlorobenzene	11.004	284	182807	42.174	ng	98
69) Atrazine	11.092	200	96773	32.001	ng	100
70) Pentachlorophenol	11.210	266	73419	38.484	ng	99
71) Phenanthrene	11.422	178	737773	42.223	ng	100
72) Anthracene	11.475	178	738326	43.197	ng	100
73) Carbazole	11.633	167	732751	44.564	ng	100
74) Di-n-butylphthalate	11.951	149	776970	40.930	ng	99
75) Fluoranthene	12.616	202	843217	44.447	ng	100
77) Benzidine	12.739	184	343811	52.569	ng	99
78) Pyrene	12.845	202	864572	41.568	ng	99
80) Butylbenzylphthalate	13.451	149	293415	39.160	ng	98
81) Benzo(a)anthracene	14.039	228	622623	41.813	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	192950	43.159	ng	100
83) Chrysene	14.080	228	573223	42.100	ng	100
84) Bis(2-ethylhexyl)phtha...	14.010	149	333077	35.205	ng	100
85) Di-n-octyl phthalate	14.639	149	431470	33.370	ng	98
87) Indeno(1,2,3-cd)pyrene	17.074	276	518227	42.522	ng	98
88) Benzo(b)fluoranthene	15.116	252	535631	45.600	ng	100
89) Benzo(k)fluoranthene	15.145	252	398082	38.727	ng	99
90) Benzo(a)pyrene	15.492	252	405609	42.469	ng	99
91) Dibenzo(a,h)anthracene	17.086	278	426039	42.685	ng	99
92) Benzo(g,h,i)perylene	17.533	276	447357	43.923	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Sample Results: **BF140783.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	-0.01
2		1,4-Dioxane	0.493	0.543	-10.1	96	-0.04
3		Pyridine	1.084	1.222	-12.7	89	-0.04
4		n-Nitrosodimethylamine	0.637	0.663	-4.1	88	-0.03
5	S	2-Fluorophenol	1.172	1.252	-6.8	92	0.00
6		Aniline	1.091	1.285	-17.8	89	0.00
7	S	Phenol-d6	1.550	1.644	-6.1	89	0.00
8		2-Chlorophenol	1.261	1.362	-8.0	92	0.00
9		Benzaldehyde	0.820	0.777	5.2	91	0.00
10	C	Phenol	1.583	1.729	-9.2	90	0.00
11		bis(2-Chloroethyl)ether	1.211	1.284	-6.0	89	0.00
12		1,3-Dichlorobenzene	1.417	1.487	-4.9	92	-0.01
13	C	1,4-Dichlorobenzene	1.435	1.524	-6.2	92	-0.01
14		1,2-Dichlorobenzene	1.344	1.421	-5.7	91	-0.01
15		Benzyl Alcohol	1.149	1.182	-2.9	83	0.00
16		2,2'-oxybis(1-Chloropropane	1.431	1.462	-2.2	86	0.00
17		2-Methylphenol	1.009	1.067	-5.7	88	0.00
18		Hexachloroethane	0.536	0.553	-3.2	89	-0.01
19	P	n-Nitroso-di-n-propylamine	0.916	0.933	-1.9	85	0.00
20		3+4-Methylphenols	1.298	1.393	-7.3	89	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	84	-0.01
22		Acetophenone	0.488	0.510	-4.5	89	-0.01
23	S	Nitrobenzene-d5	0.391	0.405	-3.6	86	0.00
24		Nitrobenzene	0.404	0.419	-3.7	87	0.00
25		Isophorone	0.652	0.669	-2.6	85	-0.01
26	C	2-Nitrophenol	0.179	0.193	-7.8	90	0.00
27		2,4-Dimethylphenol	0.214	0.242	-13.1	90	0.00
28		bis(2-Chloroethoxy)methane	0.397	0.410	-3.3	86	-0.01
29	C	2,4-Dichlorophenol	0.284	0.306	-7.7	91	0.00
30		1,2,4-Trichlorobenzene	0.324	0.342	-5.6	90	-0.01
31		Naphthalene	1.030	1.084	-5.2	90	-0.01
32		Benzoic acid	0.164	0.199	-21.3	94	0.02
33		4-Chloroaniline	0.308	0.350	-13.6	90	0.00
34	C	Hexachlorobutadiene	0.215	0.221	-2.8	87	-0.01
35		Caprolactam	0.088	0.096	-9.1	89	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.339	-6.6	87	0.00
37		2-Methylnaphthalene	0.654	0.686	-4.9	89	-0.01
38		1-Methylnaphthalene	0.641	0.676	-5.5	89	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	81	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.586	0.615	-4.9	88	0.00
41	P	Hexachlorocyclopentadiene	0.107	0.093	13.1	66	0.00
42	S	2,4,6-Tribromophenol	0.214	0.229	-7.0	86	0.00
43	C	2,4,6-Trichlorophenol	0.367	0.387	-5.4	86	0.00
44		2,4,5-Trichlorophenol	0.399	0.423	-6.0	85	0.00
45	S	2-Fluorobiphenyl	1.342	1.398	-4.2	88	-0.01
46		1,1'-Biphenyl	1.493	1.561	-4.6	87	-0.01
47		2-Chloronaphthalene	1.131	1.196	-5.7	88	0.00

Sample Results: **BF140783.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	0.363	0.389	-7.2	86	0.00
49		Acenaphthylene	1.710	1.810	-5.8	88	0.00
50		Dimethylphthalate	1.317	1.364	-3.6	85	-0.01
51		2,6-Dinitrotoluene	0.299	0.321	-7.4	87	0.00
52	C	Acenaphthene	1.086	1.135	-4.5	87	0.00
53		3-Nitroaniline	0.292	0.333	-14.0	90	0.00
54	P	2,4-Dinitrophenol	0.122	0.184	-50.8#	107	0.00
55		Dibenzofuran	1.657	1.724	-4.0	86	-0.01
56	P	4-Nitrophenol	0.199	0.291	-46.2#	114	0.01
57		2,4-Dinitrotoluene	0.397	0.431	-8.6	86	0.00
58		Fluorene	1.330	1.417	-6.5	89	0.00
59		2,3,4,6-Tetrachlorophenol	0.306	0.341	-11.4	88	0.00
60		Diethylphthalate	1.338	1.355	-1.3	84	-0.01
61		4-Chlorophenyl-phenylether	0.653	0.672	-2.9	85	0.00
62		4-Nitroaniline	0.306	0.358	-17.0	93	0.00
63		Azobenzene	1.267	1.296	-2.3	85	-0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
65		4,6-Dinitro-2-methylphenol	0.102	0.124	-21.6	94	0.00
66	c	n-Nitrosodiphenylamine	0.591	0.617	-4.4	89	-0.01
67		4-Bromophenyl-phenylether	0.206	0.214	-3.9	89	-0.01
68		Hexachlorobenzene	0.238	0.251	-5.5	90	-0.01
69		Atrazine	0.166	0.133	19.9	79	0.00
70	C	Pentachlorophenol	0.105	0.101	3.8	72	0.00
71		Phenanthrene	0.961	1.015	-5.6	89	0.00
72		Anthracene	0.940	1.016	-8.1	91	0.00
73		Carbazole	0.905	1.008	-11.4	94	0.00
74		Di-n-butylphthalate	1.044	1.069	-2.4	87	0.00
75	C	Fluoranthene	1.044	1.160	-11.1	95	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	94	0.00
77		Benzidine	0.581	0.764	-31.5#	125	0.00
78		Pyrene	1.849	1.922	-3.9	97	0.00
79	S	Terphenyl-d14	1.284	1.290	-0.5	95	-0.01
80		Butylbenzylphthalate	0.666	0.652	2.1	90	-0.01
81		Benzo(a)anthracene	1.324	1.384	-4.5	101	0.00
82		3,3'-Dichlorobenzidine	0.397	0.429	-8.1	98	0.00
83		Chrysene	1.211	1.274	-5.2	100	0.00
84		Bis(2-ethylhexyl)phthalate	0.841	0.740	12.0	84	0.00
85	c	Di-n-octyl phthalate	1.150	0.959	16.6	80	0.00
86	I	Perylene-d12	1.000	1.000	0.0	88	0.01
87		Indeno(1,2,3-cd)pyrene	1.303	1.386	-6.4	94	0.02
88		Benzo(b)fluoranthene	1.256	1.432	-14.0	107	0.01
89		Benzo(k)fluoranthene	1.099	1.064	3.2	85	0.01
90	C	Benzo(a)pyrene	1.021	1.084	-6.2	95	0.02
91		Dibenzo(a,h)anthracene	1.067	1.139	-6.7	94	0.02
92		Benzo(g,h,i)perylene	1.089	1.196	-9.8	97	0.02

Sample Results: **BF140783.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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: **BF140783.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	-0.01
2		1,4-Dioxane	40.000	44.081	-10.2	96	-0.04
3		Pyridine	40.000	45.072	-12.7	89	-0.04
4		n-Nitrosodimethylamine	40.000	41.590	-4.0	88	-0.03
5	S	2-Fluorophenol	80.000	85.474	-6.8	92	0.00
6		Aniline	40.000	47.122	-17.8	89	0.00
7	S	Phenol-d6	80.000	84.881	-6.1	89	0.00
8		2-Chlorophenol	40.000	43.213	-8.0	92	0.00
9		Benzaldehyde	40.000	37.894	5.3	91	0.00
10	C	Phenol	40.000	43.692	-9.2	90	0.00
11		bis(2-Chloroethyl)ether	40.000	42.398	-6.0	89	0.00
12		1,3-Dichlorobenzene	40.000	41.976	-4.9	92	-0.01
13	C	1,4-Dichlorobenzene	40.000	42.484	-6.2	92	-0.01
14		1,2-Dichlorobenzene	40.000	42.270	-5.7	91	-0.01
15		Benzyl Alcohol	40.000	41.129	-2.8	83	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.876	-2.2	86	0.00
17		2-Methylphenol	40.000	42.276	-5.7	88	0.00
18		Hexachloroethane	40.000	41.293	-3.2	89	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	40.758	-1.9	85	0.00
20		3+4-Methylphenols	40.000	42.944	-7.4	89	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	84	-0.01
22		Acetophenone	40.000	41.813	-4.5	89	-0.01
23	S	Nitrobenzene-d5	80.000	82.782	-3.5	86	0.00
24		Nitrobenzene	40.000	41.497	-3.7	87	0.00
25		Isophorone	40.000	41.052	-2.6	85	-0.01
26	C	2-Nitrophenol	40.000	43.168	-7.9	90	0.00
27		2,4-Dimethylphenol	40.000	45.123	-12.8	90	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.237	-3.1	86	-0.01
29	C	2,4-Dichlorophenol	40.000	43.123	-7.8	91	0.00
30		1,2,4-Trichlorobenzene	40.000	42.180	-5.4	90	-0.01
31		Naphthalene	40.000	42.079	-5.2	90	-0.01
32		Benzoic acid	40.000	43.409	-8.5	94	0.02
33		4-Chloroaniline	40.000	45.404	-13.5	90	0.00
34	C	Hexachlorobutadiene	40.000	41.194	-3.0	87	-0.01
35		Caprolactam	40.000	43.862	-9.7	89	0.00
36	C	4-Chloro-3-methylphenol	40.000	42.668	-6.7	87	0.00
37		2-Methylnaphthalene	40.000	41.962	-4.9	89	-0.01
38		1-Methylnaphthalene	40.000	42.163	-5.4	89	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	81	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	41.999	-5.0	88	0.00
41	P	Hexachlorocyclopentadiene	40.000	32.913	17.7	66	0.00
42	S	2,4,6-Tribromophenol	80.000	85.503	-6.9	86	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.170	-5.4	86	0.00
44		2,4,5-Trichlorophenol	40.000	42.385	-6.0	85	0.00
45	S	2-Fluorobiphenyl	80.000	83.324	-4.2	88	-0.01
46		1,1'-Biphenyl	40.000	41.803	-4.5	87	-0.01
47		2-Chloronaphthalene	40.000	42.280	-5.7	88	0.00

Sample Results: **BF140783.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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	42.872	-7.2	86	0.00
49		Acenaphthylene	40.000	42.350	-5.9	88	0.00
50		Dimethylphthalate	40.000	41.436	-3.6	85	-0.01
51		2,6-Dinitrotoluene	40.000	43.017	-7.5	87	0.00
52	C	Acenaphthene	40.000	41.812	-4.5	87	0.00
53		3-Nitroaniline	40.000	45.543	-13.9	90	0.00
54	P	2,4-Dinitrophenol	40.000	50.797	-27.0#	107	0.00
55		Dibenzofuran	40.000	41.621	-4.1	86	-0.01
56	P	4-Nitrophenol	40.000	58.509	-46.3#	114	0.01
57		2,4-Dinitrotoluene	40.000	43.418	-8.5	86	0.00
58		Fluorene	40.000	42.611	-6.5	89	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	44.540	-11.3	88	0.00
60		Diethylphthalate	40.000	40.514	-1.3	84	-0.01
61		4-Chlorophenyl-phenylether	40.000	41.184	-3.0	85	0.00
62		4-Nitroaniline	40.000	46.773	-16.9	93	0.00
63		Azobenzene	40.000	40.898	-2.2	85	-0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	83	0.00
65		4,6-Dinitro-2-methylphenol	40.000	48.398	-21.0	94	0.00
66	c	n-Nitrosodiphenylamine	40.000	41.734	-4.3	89	-0.01
67		4-Bromophenyl-phenylether	40.000	41.485	-3.7	89	-0.01
68		Hexachlorobenzene	40.000	42.174	-5.4	90	-0.01
69		Atrazine	40.000	32.001	20.0	79	0.00
70	C	Pentachlorophenol	40.000	38.484	3.8	72	0.00
71		Phenanthrene	40.000	42.223	-5.6	89	0.00
72		Anthracene	40.000	43.197	-8.0	91	0.00
73		Carbazole	40.000	44.564	-11.4	94	0.00
74		Di-n-butylphthalate	40.000	40.930	-2.3	87	0.00
75	C	Fluoranthene	40.000	44.447	-11.1	95	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	94	0.00
77		Benzidine	40.000	52.569	-31.4#	125	0.00
78		Pyrene	40.000	41.568	-3.9	97	0.00
79	S	Terphenyl-d14	80.000	80.355	-0.4	95	-0.01
80		Butylbenzylphthalate	40.000	39.160	2.1	90	-0.01
81		Benzo(a)anthracene	40.000	41.813	-4.5	101	0.00
82		3,3'-Dichlorobenzidine	40.000	43.159	-7.9	98	0.00
83		Chrysene	40.000	42.100	-5.3	100	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	35.205	12.0	84	0.00
85	c	Di-n-octyl phthalate	40.000	33.370	16.6	80	0.00
86	I	Perylene-d12	20.000	20.000	0.0	88	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	42.522	-6.3	94	0.02
88		Benzo(b)fluoranthene	40.000	45.600	-14.0	107	0.01
89		Benzo(k)fluoranthene	40.000	38.727	3.2	85	0.01
90	C	Benzo(a)pyrene	40.000	42.469	-6.2	95	0.02
91		Dibenzo(a,h)anthracene	40.000	42.685	-6.7	94	0.02
92		Benzo(g,h,i)perylene	40.000	43.923	-9.8	97	0.02

Sample Results: **BF140783.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140783.D
Acq On : 09 Dec 2024 12:21
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 09 14:00:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 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

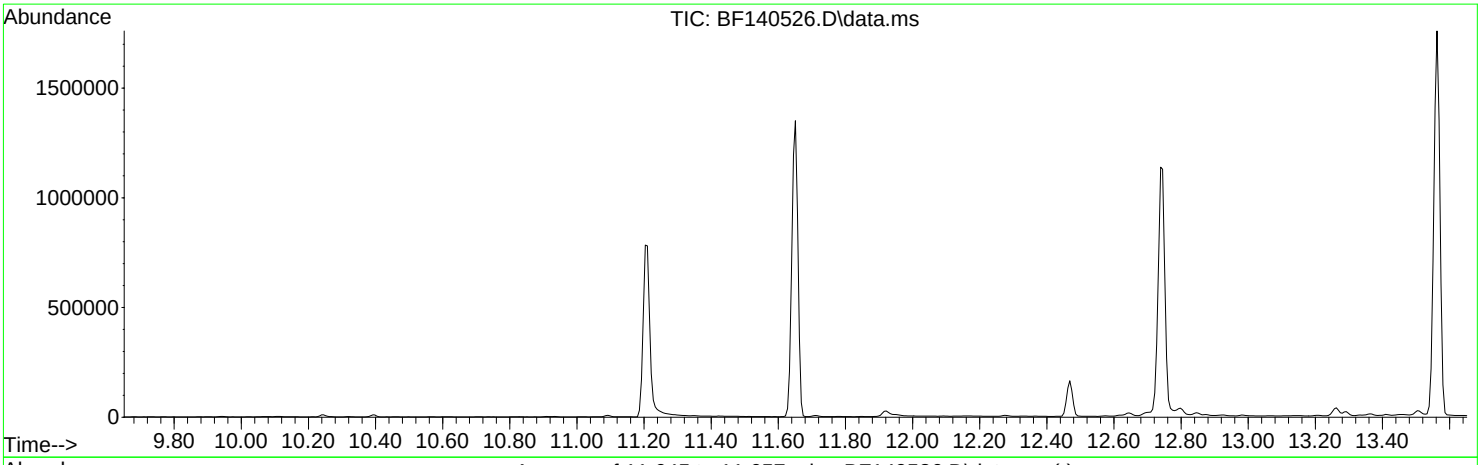
Sample Results: **BF140526.D**

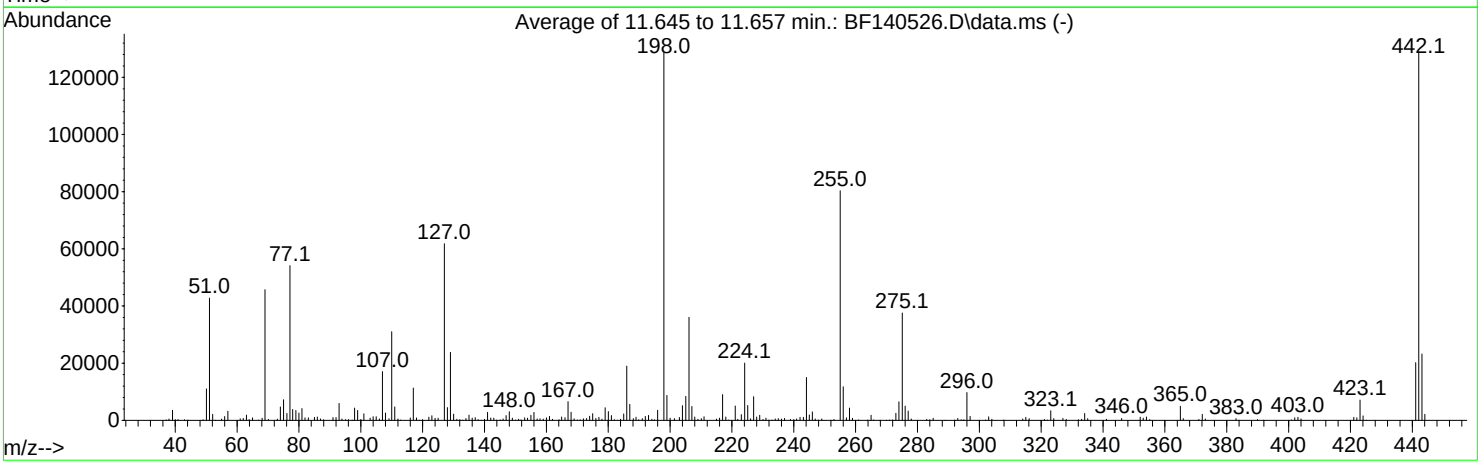
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024





AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.3	42792	PASS
68	69	0.00	2	1.8	810	PASS
69	198	0.00	100	35.5	45731	PASS
70	69	0.00	2	0.7	327	PASS
127	198	10	80	48.0	61811	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	128688	PASS
199	198	5	9	6.8	8723	PASS
275	198	10	60	29.2	37552	PASS
365	198	1	100	3.8	4944	PASS
441	198	0.01	100	15.7	20189	PASS
442	442	50	100	100.0	128421	PASS
443	442	15	24	18.1	23261	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/21/2024	BNA_F	BF140526.D
Compound Name	**Response**	**Retention Time**
DDT	424151	13.562
DDD	14557	13.262
DDE	1132	12.921
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
15689	439840	3.57

Instrument :
BNA_F
ClientSampleId :
DFTPP

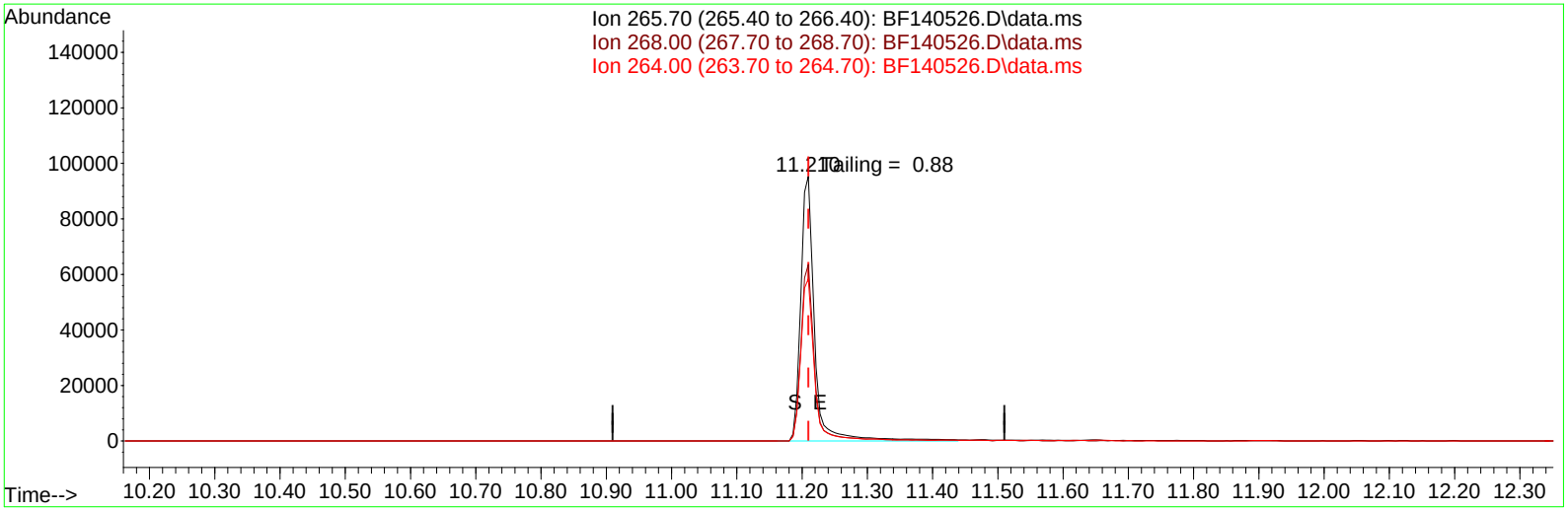
Quantitation Report (Qedit)

Sample Results: **BF140526.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 21 15:24:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

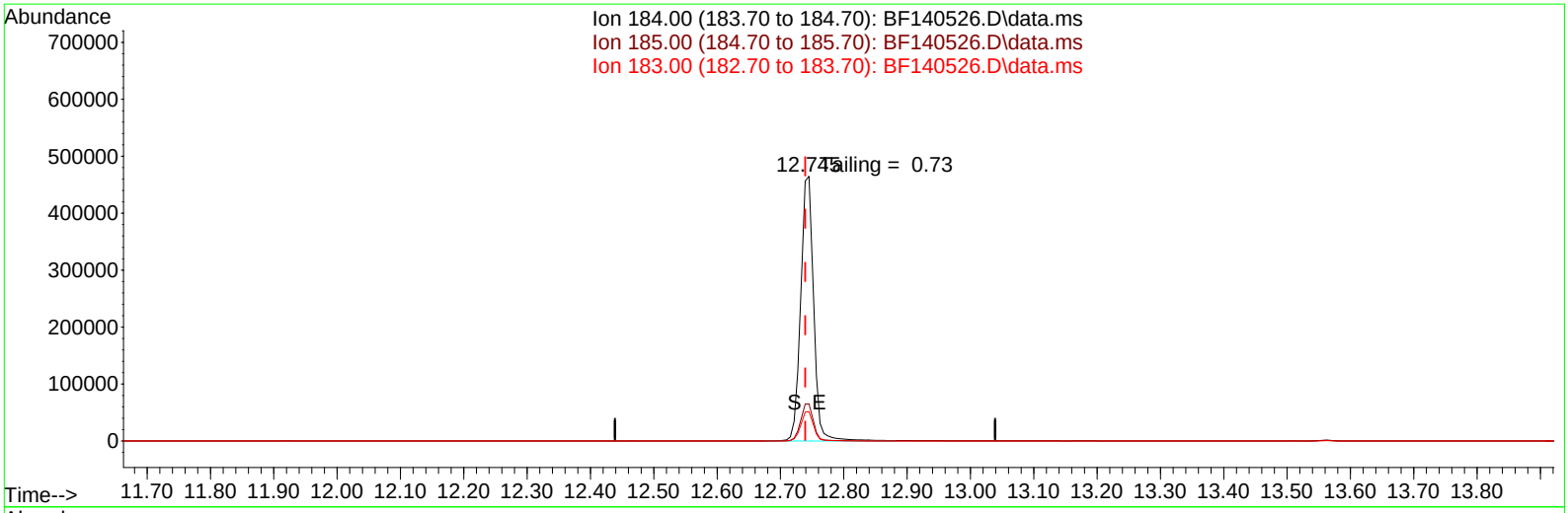


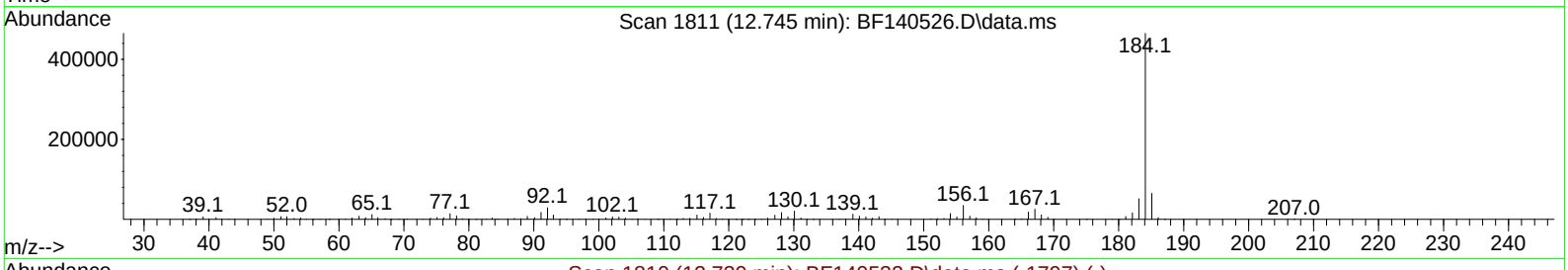
Sample Results: **BF140526.D**

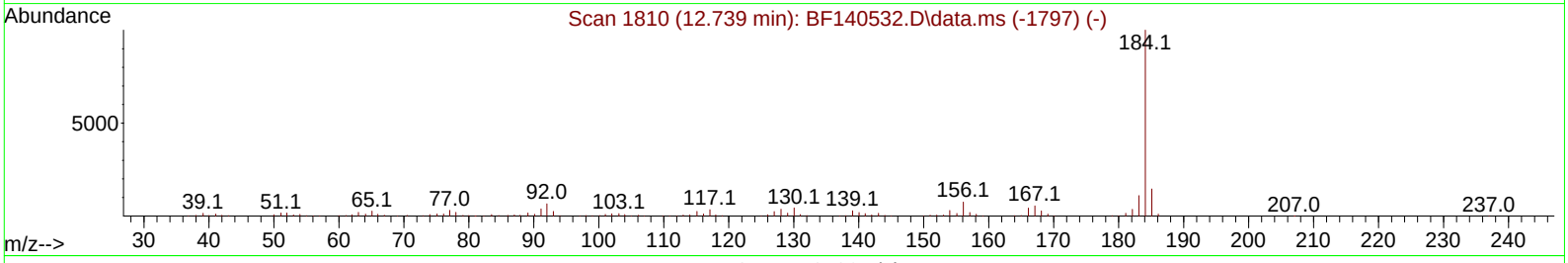
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 21 15:24:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration







TIC: BF140526.D\data.ms

(77) Benzidine

12.745min (+ 0.006) 32779.12 ng

response 668077

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.02
183.00	11.00	11.11
0.00	0.00	0.00

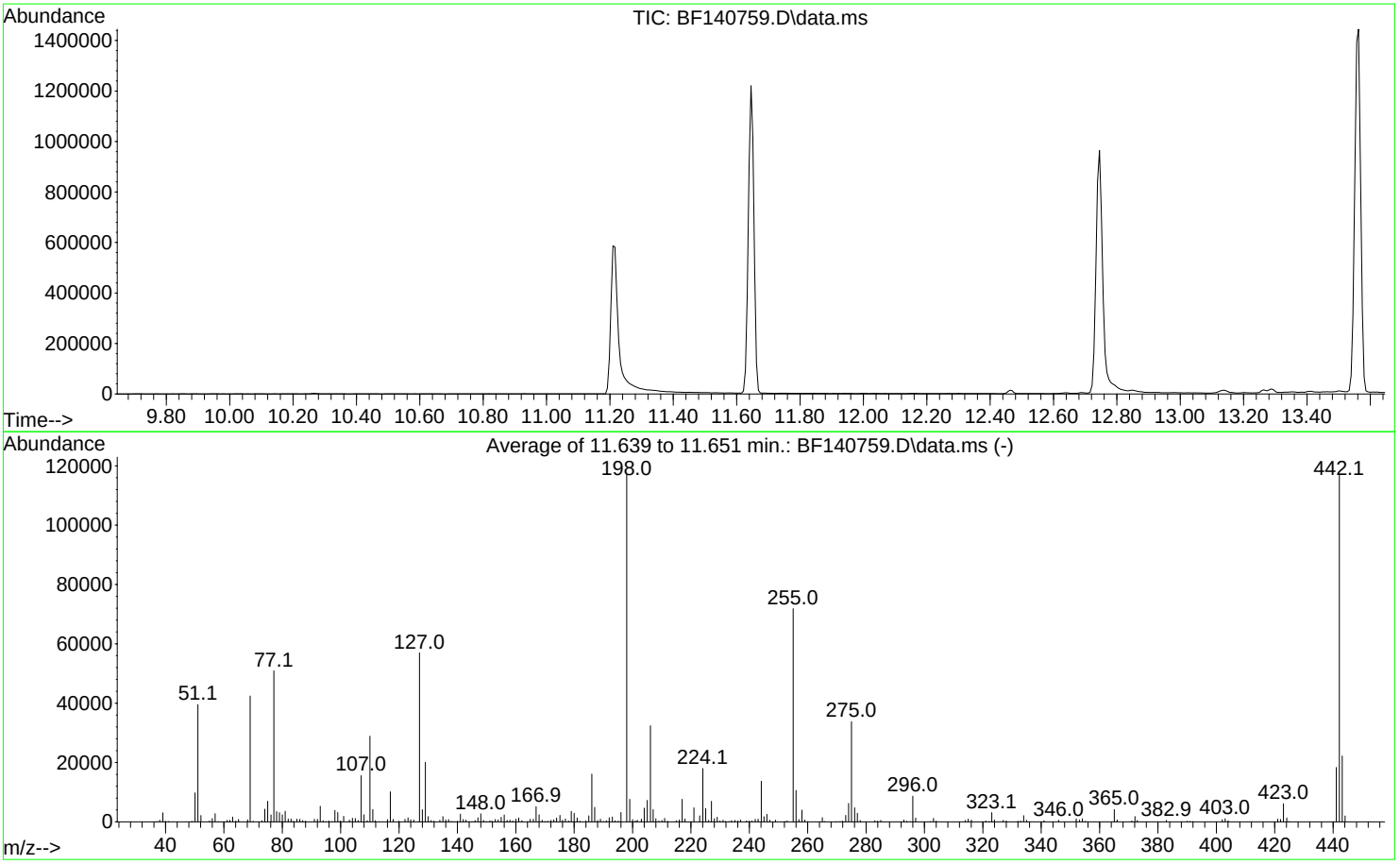
Sample Results: **BF140759.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140759.D
Acq On : 06 Dec 2024 11:41
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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024



AutoFind: Scans 1623, 1624, 1625; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	39536	PASS
68	69	0.00	2	1.7	736	PASS
69	198	0.00	100	36.2	42400	PASS
70	69	0.00	2	0.5	199	PASS
127	198	10	80	48.7	56981	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	117088	PASS
199	198	5	9	6.5	7592	PASS
275	198	10	60	28.8	33768	PASS
365	198	1	100	3.5	4147	PASS
441	198	0.01	100	15.7	18356	PASS
442	442	50	100	100.0	116827	PASS
443	442	15	24	19.0	22187	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/6/2024	BNA_F	BF140759.D
Compound Name	**Response**	**Retention Time**
DDT	385885	13.563
DDD	10302	13.286
DDE	523	12.921
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10825	396710	2.73

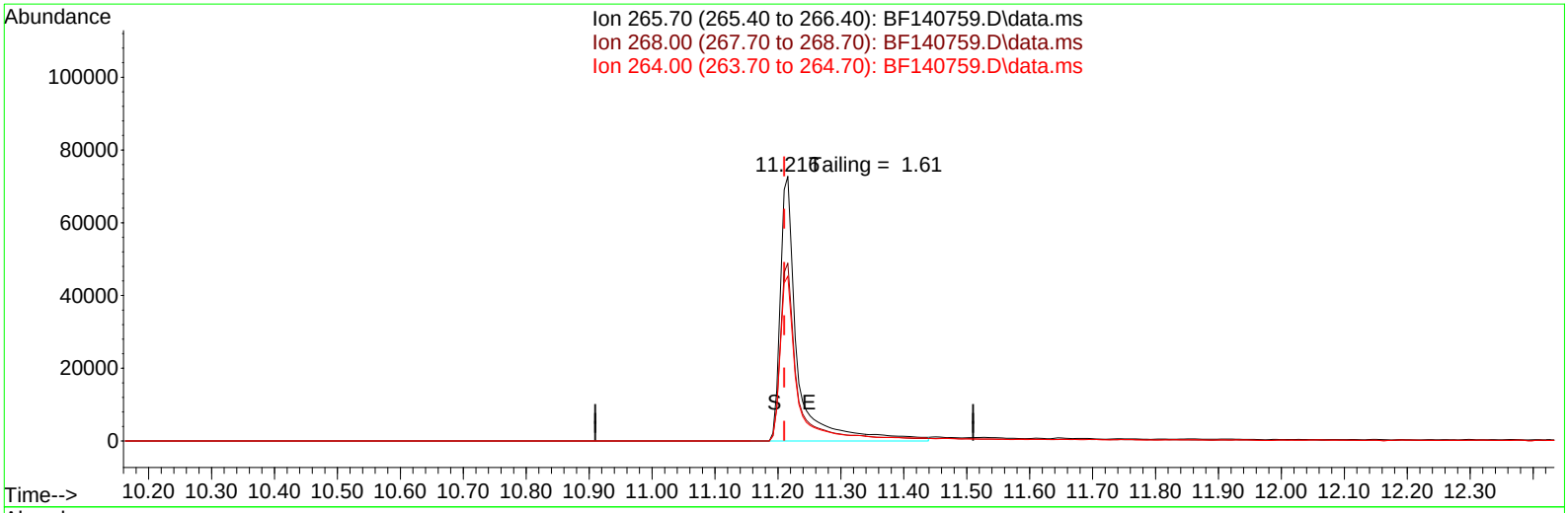
Instrument :
BNA_F
ClientSampleId :
DFTPP

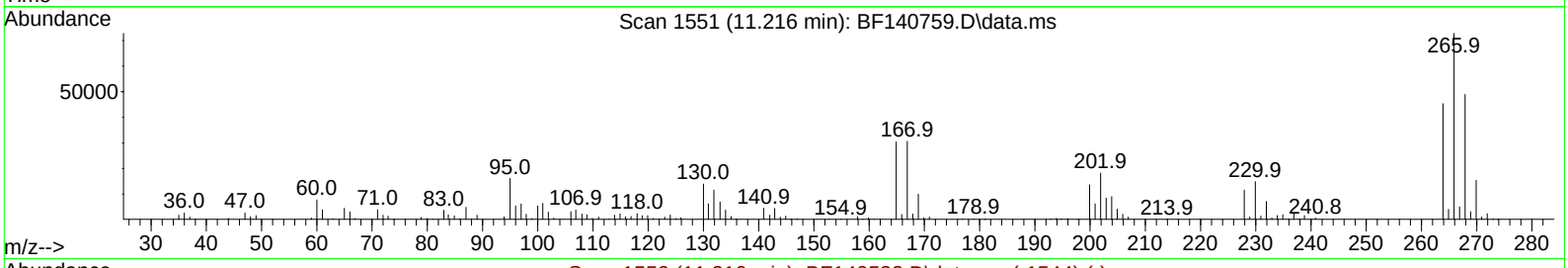
Sample Results: **BF140759.D**

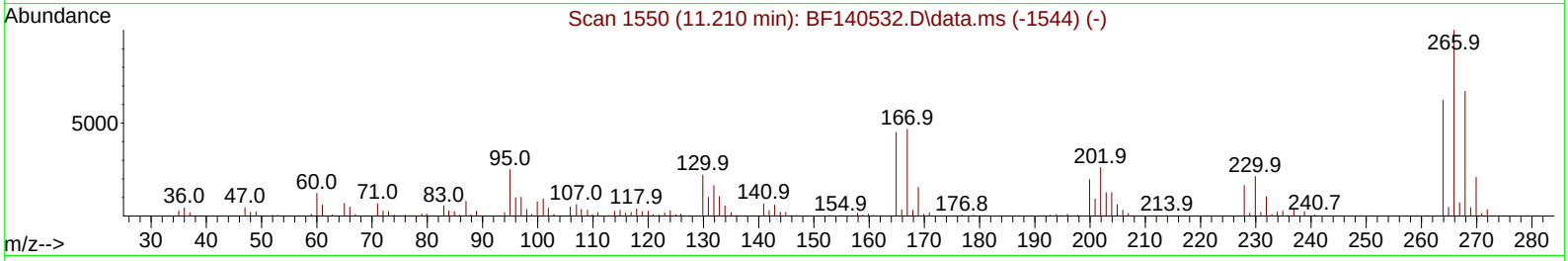
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140759.D
Acq On : 06 Dec 2024 11:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 06 11:51:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration







TIC: BF140759.D\data.ms

(70) Pentachlorophenol (C)

11.216min (+ 0.006) 133330.10 ng

response 138552

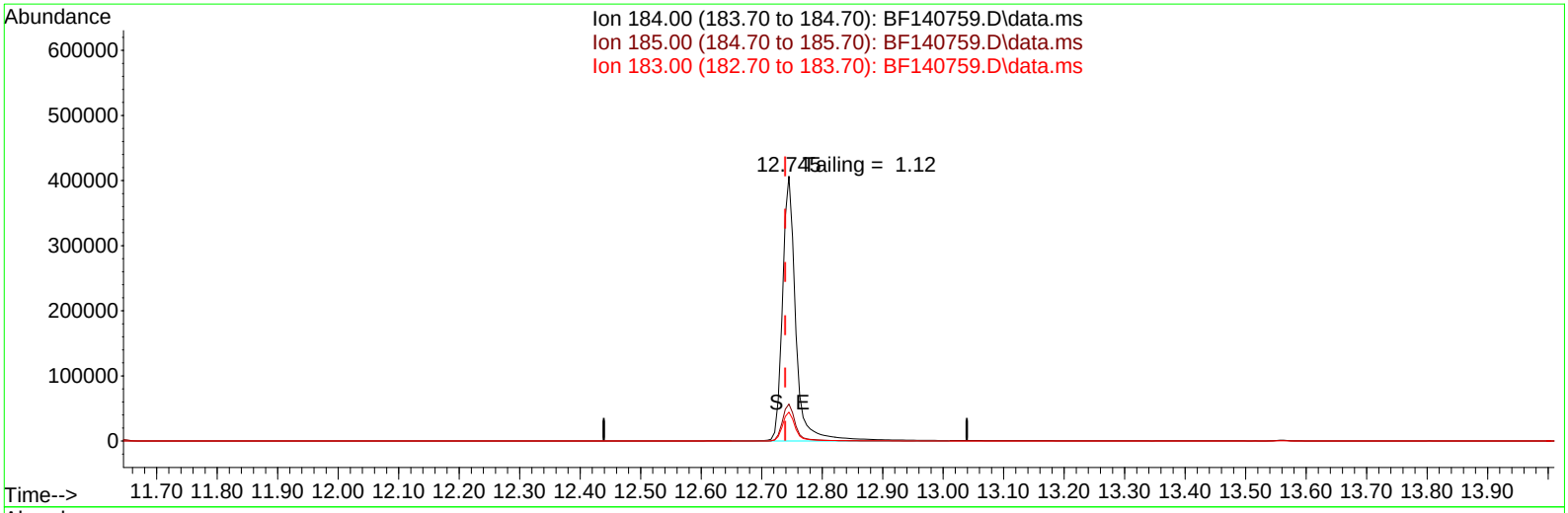
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.23
264.00	62.30	62.29
0.00	0.00	0.00

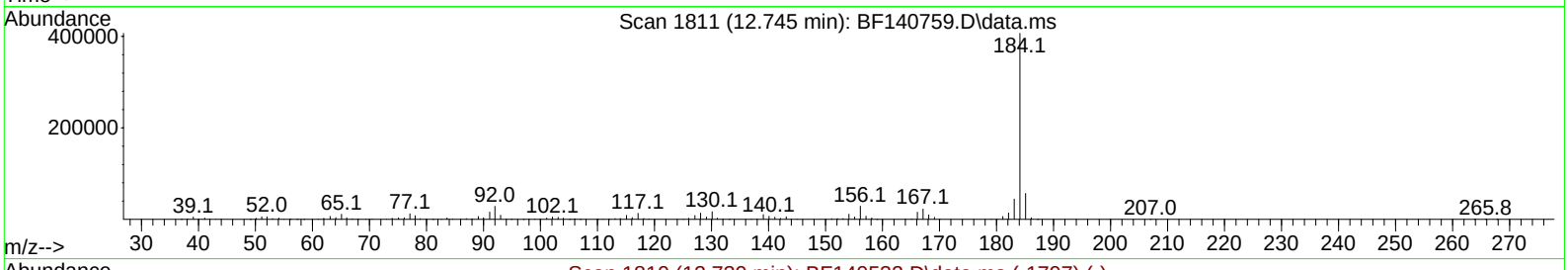
Sample Results: **BF140759.D**

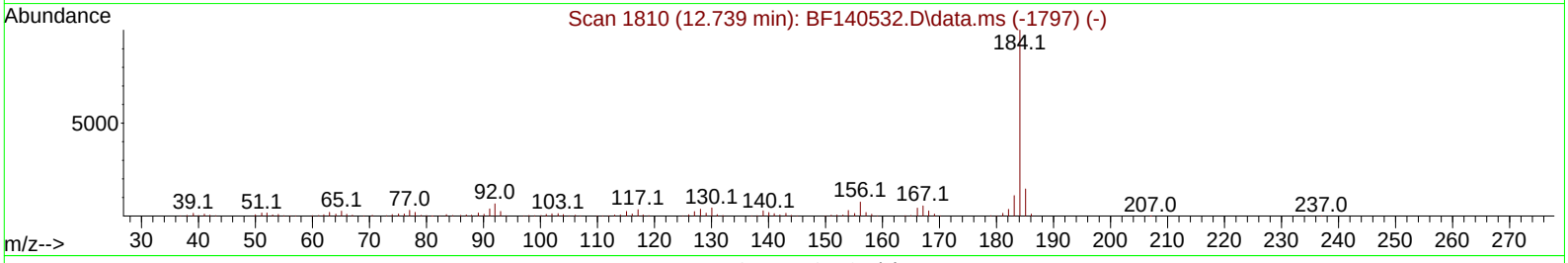
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120624\
Data File : BF140759.D
Acq On : 06 Dec 2024 11:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 06 11:51:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration







TIC: BF140759.D\data.ms

(77) Benzidine

12.745min (+ 0.006) 121878.40 ng

response 623664

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	13.97
183.00	11.00	10.91
0.00	0.00	0.00

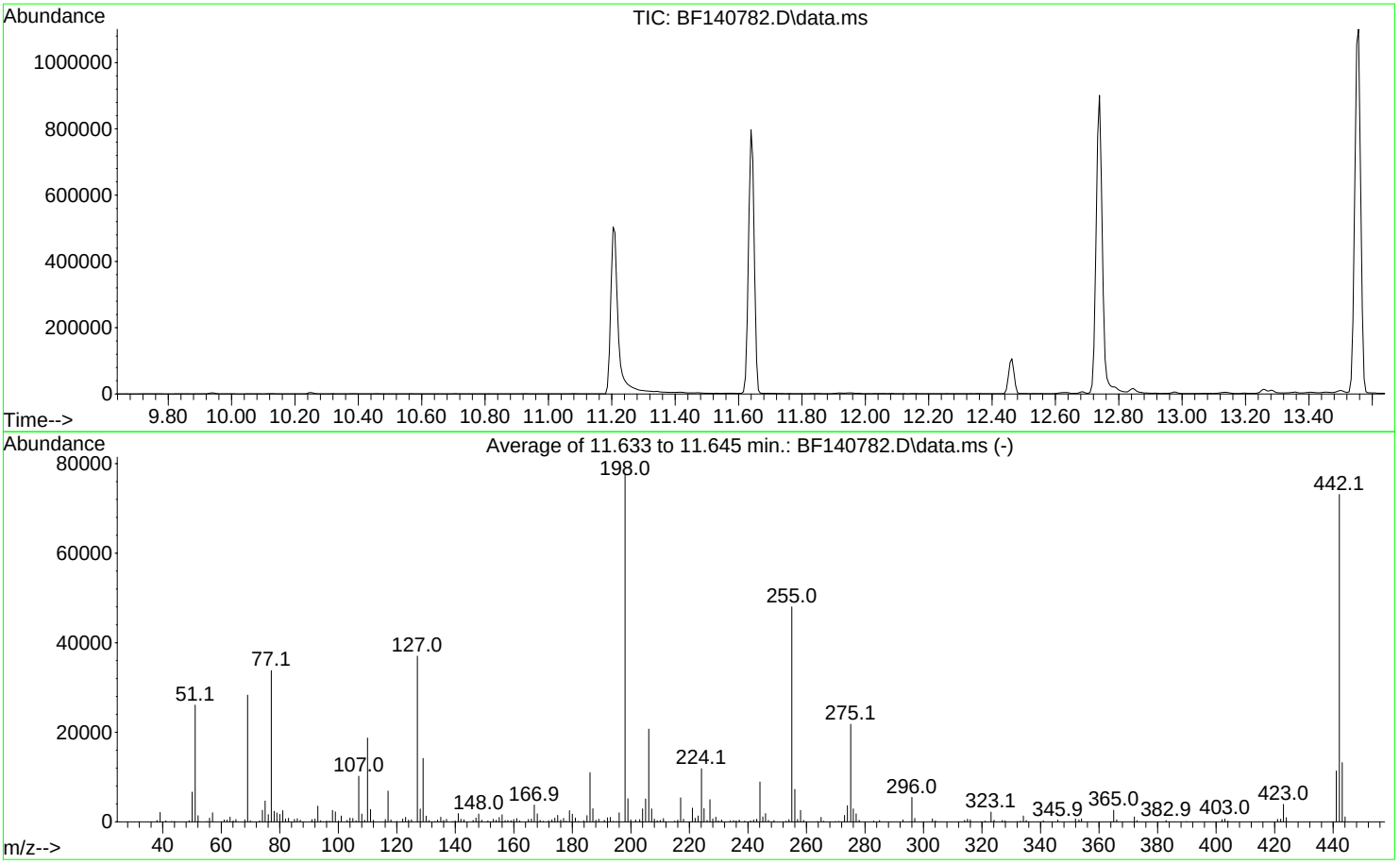
Sample Results: **BF140782.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140782.D
Acq On : 09 Dec 2024 11:55
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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024



AutoFind: Scans 1622, 1623, 1624; Background Corrected with Scan 1616

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.6	26080	PASS
68	69	0.00	2	1.6	463	PASS
69	198	0.00	100	36.5	28325	PASS
70	69	0.00	2	0.8	234	PASS
127	198	10	80	47.7	37035	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	77573	PASS
199	198	5	9	6.7	5170	PASS
275	198	10	60	28.1	21805	PASS
365	198	1	100	3.4	2612	PASS
441	198	0.01	100	14.7	11365	PASS
442	442	50	100	100.0	73117	PASS
443	442	15	24	18.1	13240	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/9/2024	BNA_F	BF140782.D
Compound Name	**Response**	**Retention Time**
DDT	285973	13.557
DDD	7212	13.257
DDE	366	12.915
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7578	293551	2.58

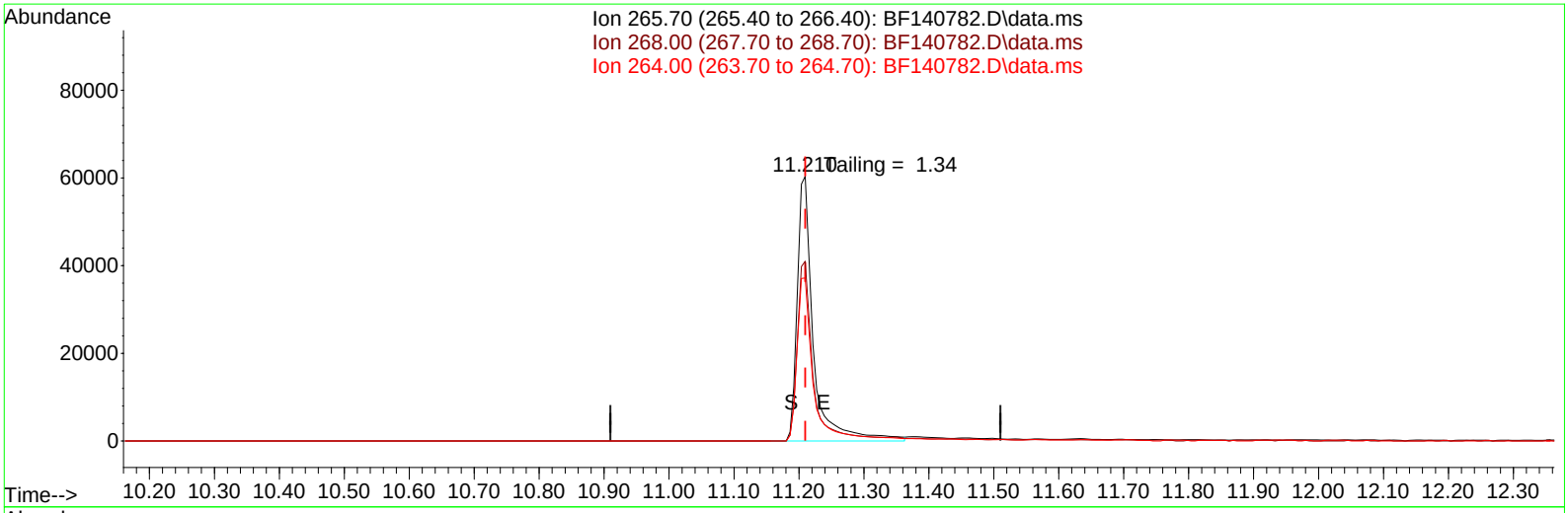
Instrument :
BNA_F
ClientSampleId :
DFTPP

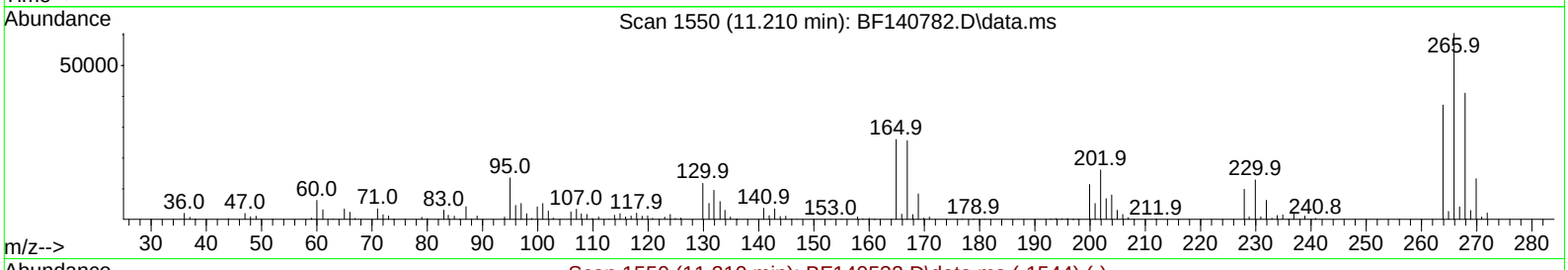
Sample Results: **BF140782.D**

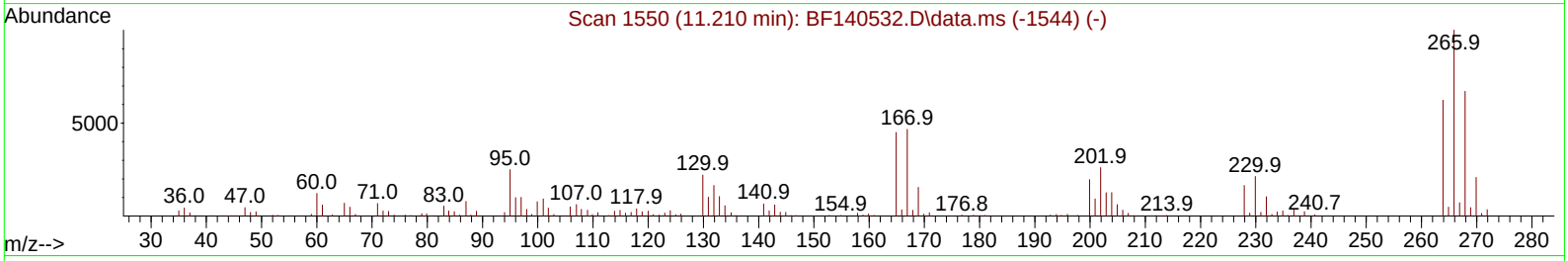
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140782.D
Acq On : 09 Dec 2024 11:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 09 14:07:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration







TIC: BF140782.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.000) 21180.55 ng

response 104937

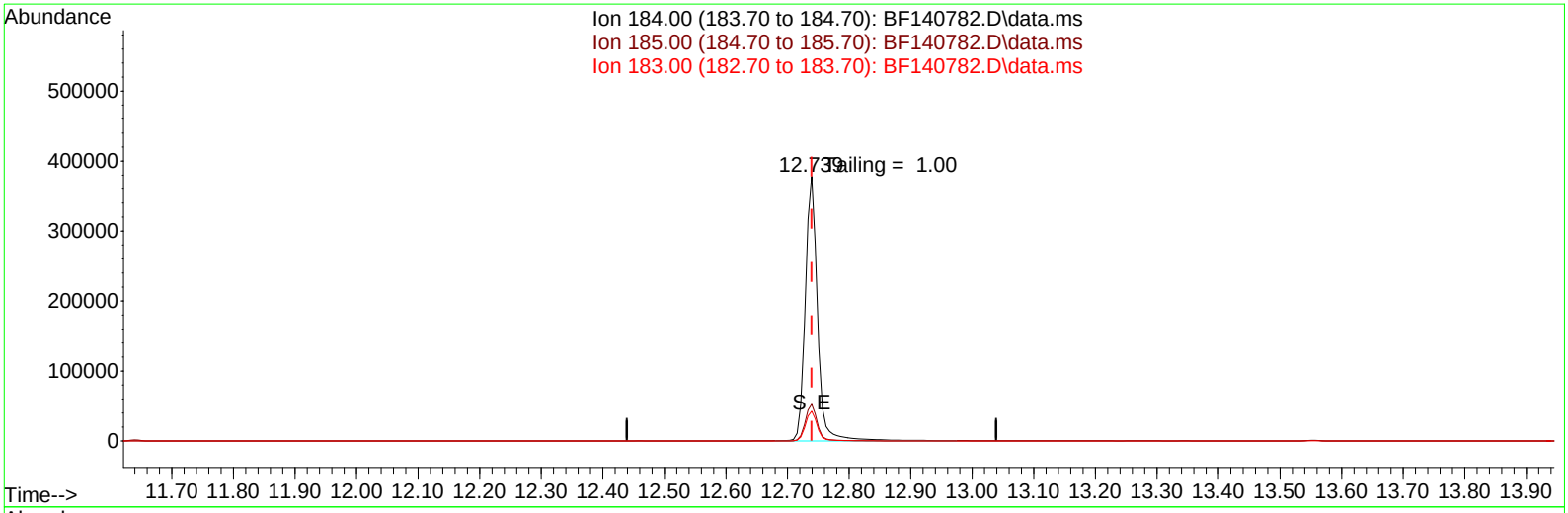
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.92
264.00	62.30	61.54
0.00	0.00	0.00

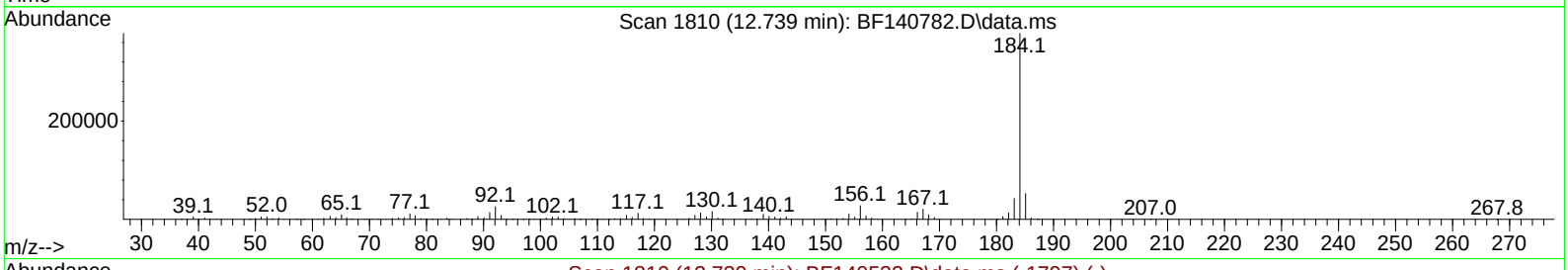
Sample Results: **BF140782.D**

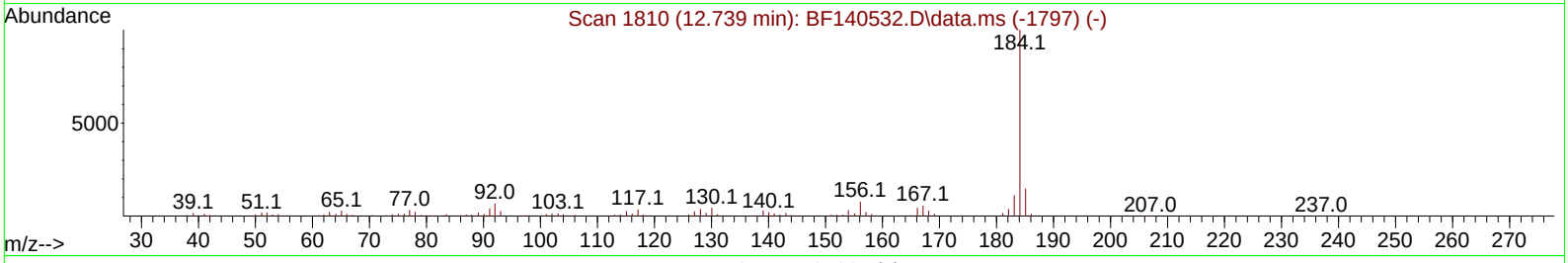
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140782.D
Acq On : 09 Dec 2024 11:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 09 14:07:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration







TIC: BF140782.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 20405.35 ng

response 530387

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	13.90
183.00	11.00	11.26
0.00	0.00	0.00

Raw Data: **BF140784.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BL	SDG No.:	P5093
Lab Sample ID:	PB165432BL	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
BF140784.D	1	12/06/24 09:33	12/09/24 12:47	PB165432

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: **BF140784.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BL	SDG No.:	P5093
Lab Sample ID:	PB165432BL	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
BF140784.D	1	12/06/24 09:33	12/09/24 12:47	PB165432

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: **BF140784.D**

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Fax : 908 789 8922

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BL	SDG No.:	P5093
Lab Sample ID:	PB165432BL	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
BF140784.D	1	12/06/24 09:33	12/09/24 12:47	PB165432

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	150		15 (10) - 110 (139)	100%	SPK: 150
13127-88-3	Phenol-d6	144		15 (10) - 110 (134)	96%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.8		30 (49) - 130 (133)	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	100.0		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	146		15 (44) - 110 (137)	97%	SPK: 150
1718-51-0	Terphenyl-d14	89.1		30 (48) - 130 (125)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69400	6.863			
1146-65-2	Naphthalene-d8	265000	8.145			
15067-26-2	Acenaphthene-d10	150000	9.898			
1517-22-2	Phenanthrene-d10	289000	11.392			
1719-03-5	Chrysene-d12	206000	14.045			
1520-96-3	Perylene-d12	167000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4.00	J		2.19	ug/L
004744-10-9	Propane, 1,1-dimethoxy-	2.40	J		2.30	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	14.0	A		5.10	ug/L

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Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BL	SDG No.:	P5093
Lab Sample ID:	PB165432BL	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
BF140784.D	1	12/06/24 09:33	12/09/24 12:47	PB165432

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\BF120924\
Data File : BF140784.D
Acq On : 09 Dec 2024 12:47
Operator : RC/JU
Sample : PB165432BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Quant Time: Dec 09 14:19:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

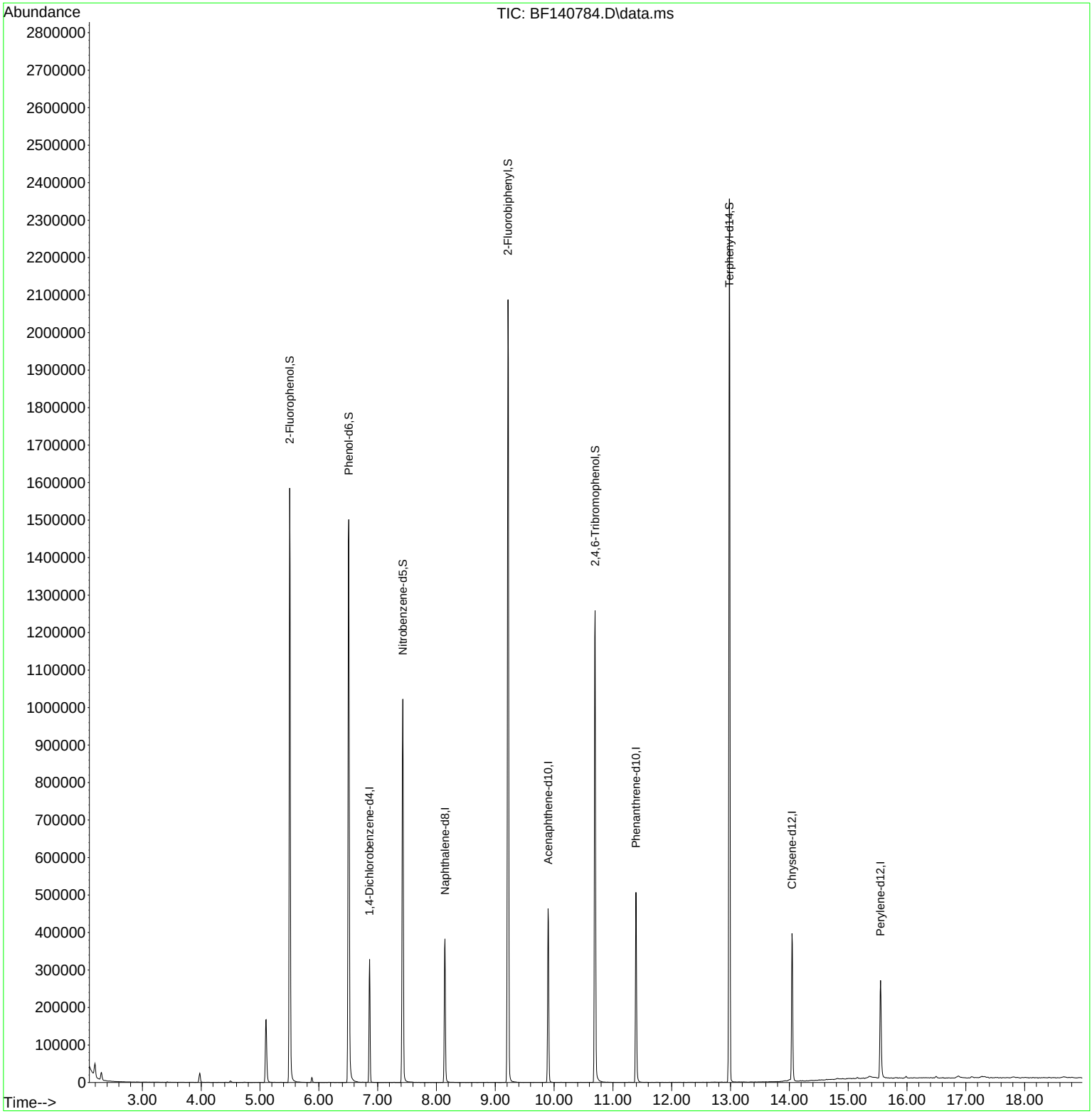
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	69444	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	265288	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	149935	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	289301	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	206484	20.000	ng	0.00
86) Perylene-d12	15.551	264	167176	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	610732	150.054	ng	0.00
7) Phenol-d6	6.510	99	776194	144.254	ng	0.00
23) Nitrobenzene-d5	7.428	82	507126	97.779	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	233530	145.632	ng	0.00
45) 2-Fluorobiphenyl	9.216	172	1006138	99.983	ng	-0.02
79) Terphenyl-d14	12.980	244	1182142	89.147	ng	-0.01
Target Compounds						Qvalue

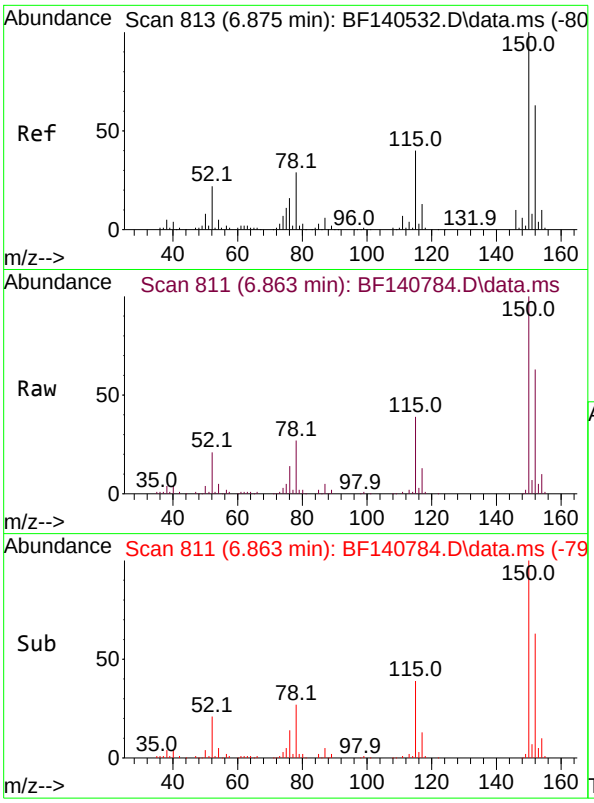
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140784.D
Acq On : 09 Dec 2024 12:47
Operator : RC/JU
Sample : PB165432BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Quant Time: Dec 09 14:19:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



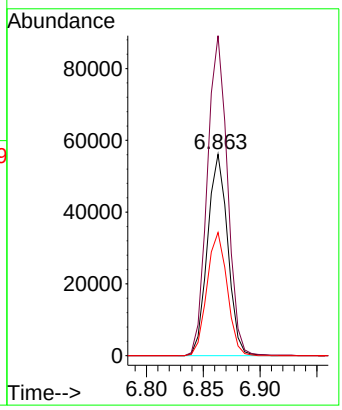


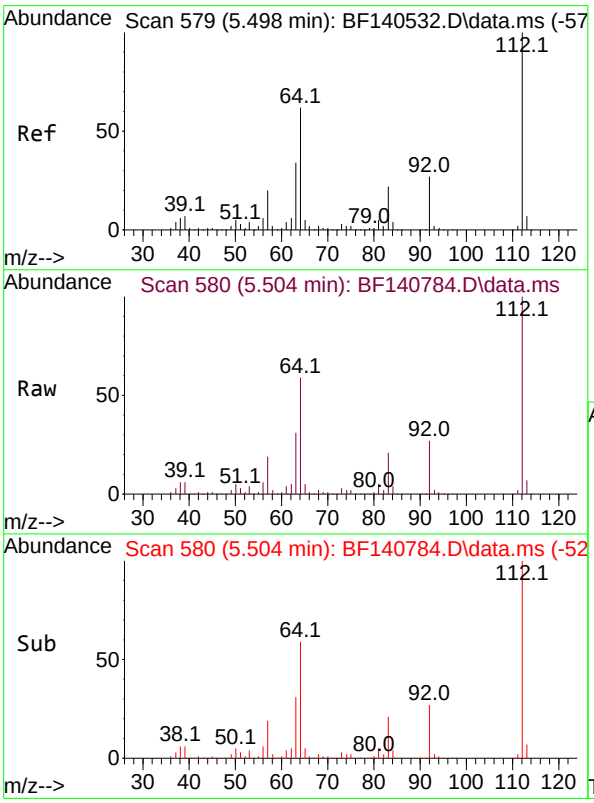
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Tgt Ion:152 Resp: 69444

Ion	Ratio	Lower	Upper
152	100		
150	158.8	128.5	192.7
115	61.2	50.2	75.4

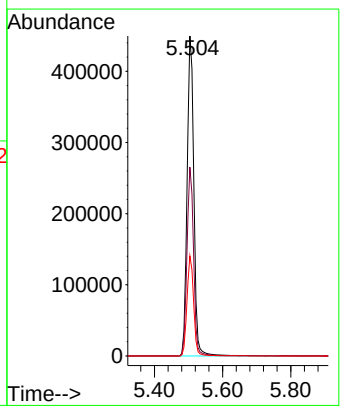


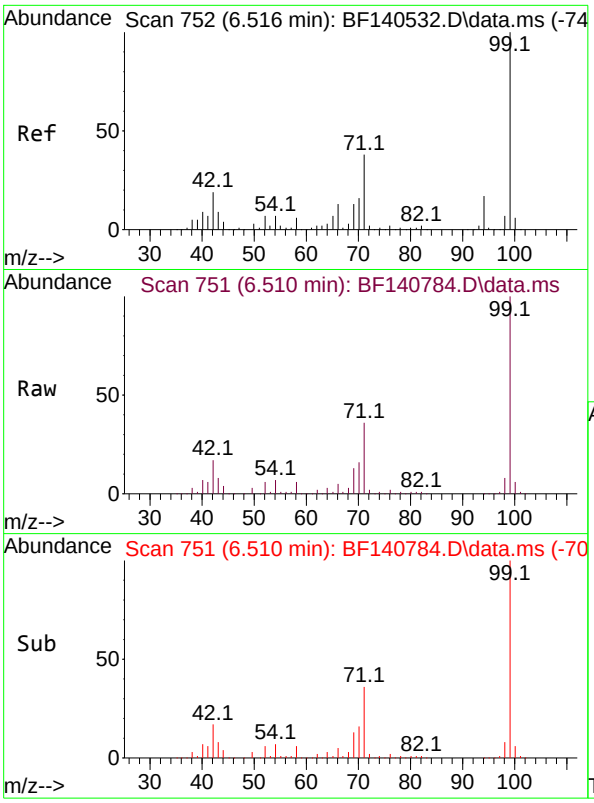


#5
2-Fluorophenol
Concen: 150.054 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Tgt Ion:112 Resp: 610732

Ion	Ratio	Lower	Upper
112	100		
64	59.0	49.2	73.8
63	31.3	27.0	40.4



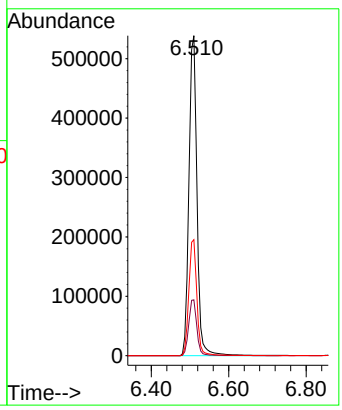


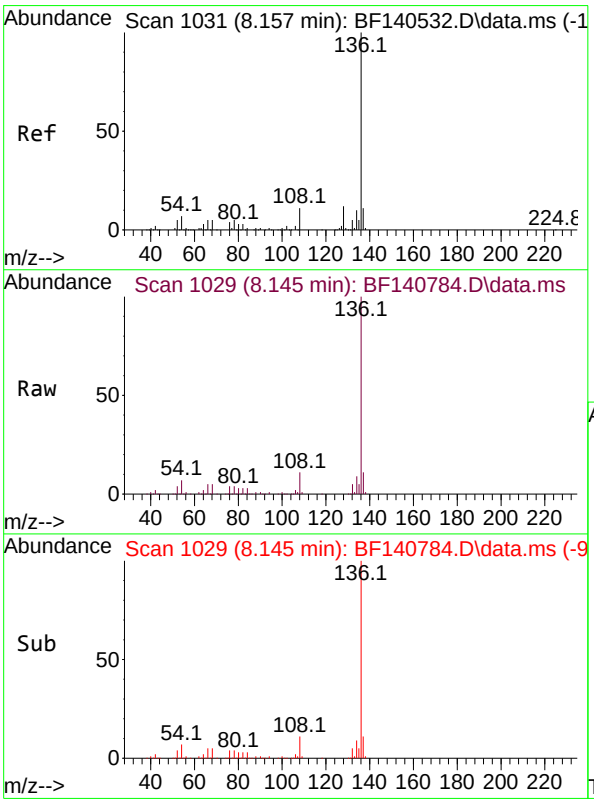
#7
Phenol-d6
Concen: 144.254 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Tgt Ion: 99 Resp: 776194

Ion	Ratio	Lower	Upper
99	100		
42	17.4	15.4	23.0
71	36.3	30.6	46.0

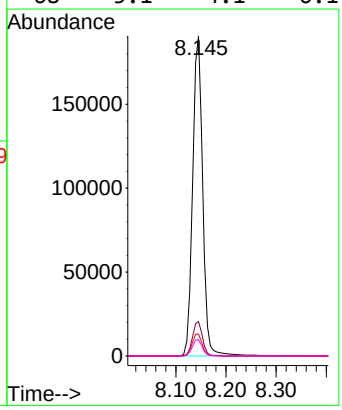


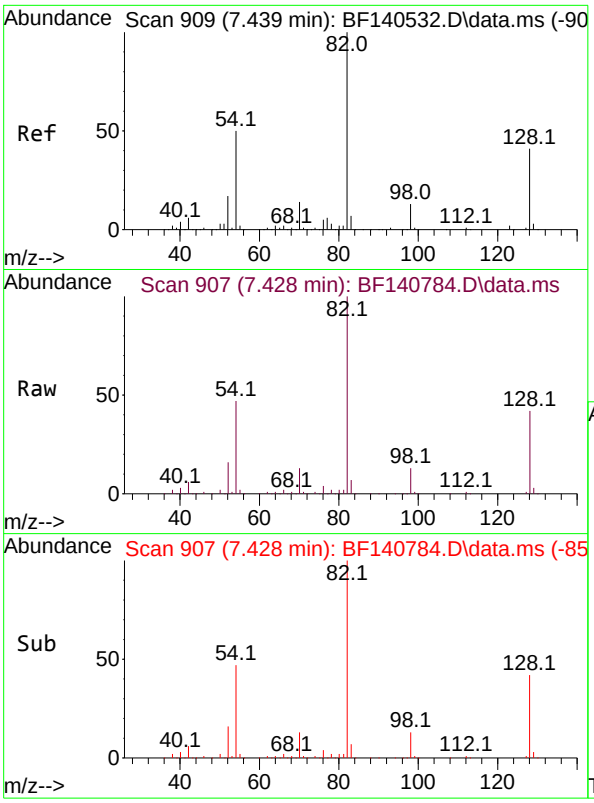


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.012 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Tgt Ion:136 Resp: 265288

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	6.8	5.8	8.8
68	5.1	4.1	6.1



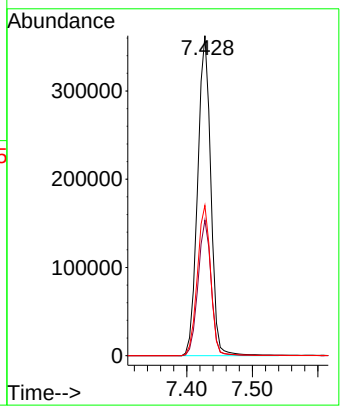


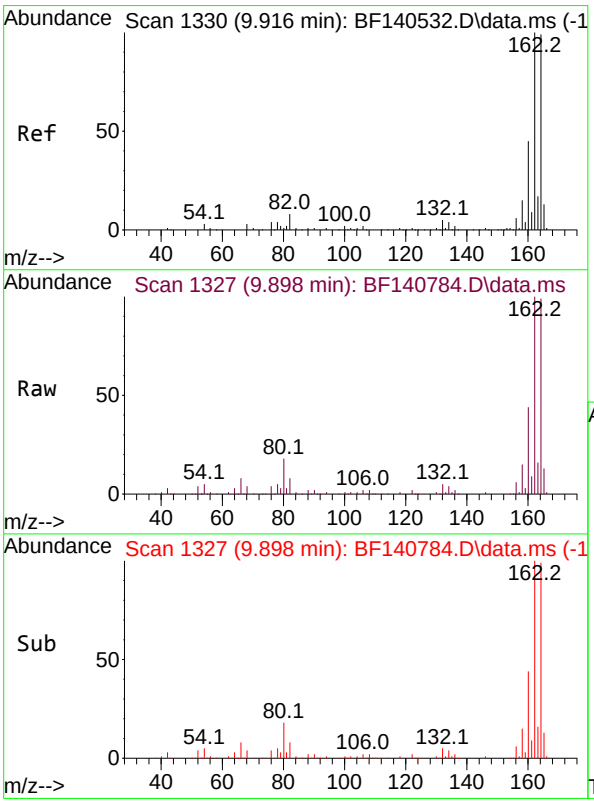
#23
Nitrobenzene-d5
Concen: 97.779 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Tgt Ion: 82 Resp: 507126

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.0	49.4
54	47.0	39.5	59.3

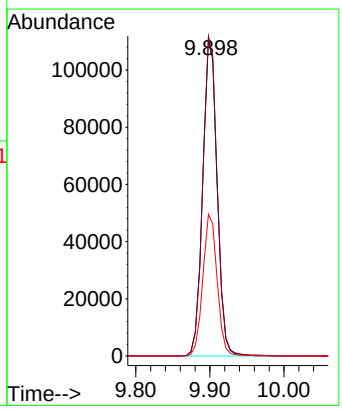


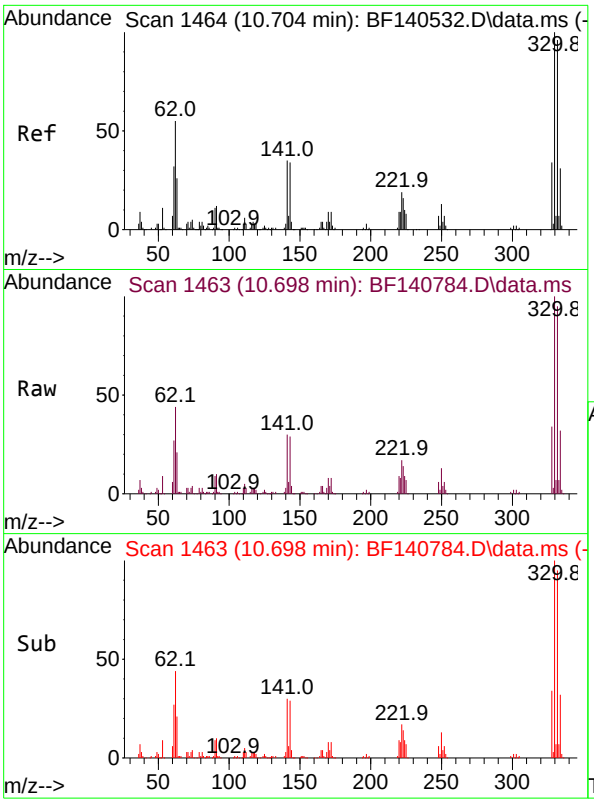


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.018 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Tgt Ion:164 Resp: 149935

Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.6	120.8
160	44.7	36.2	54.4



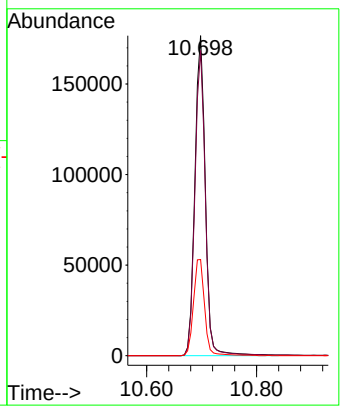


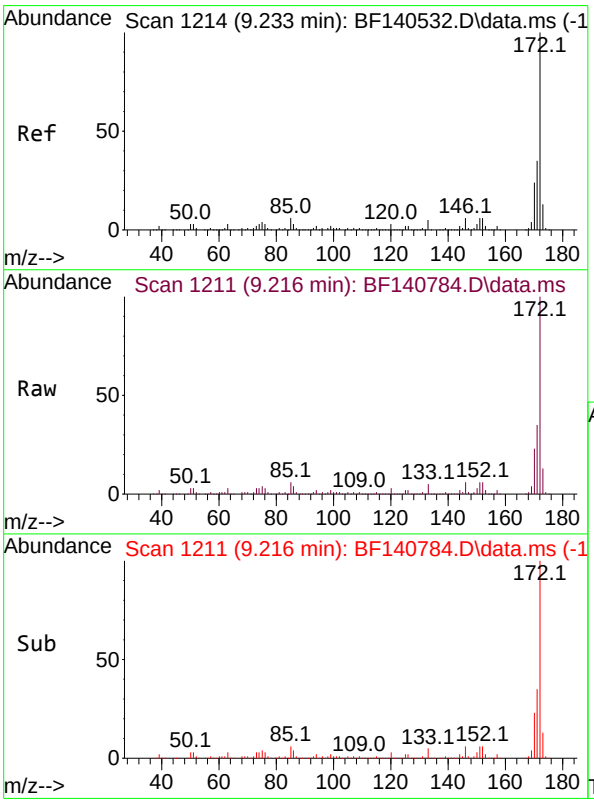
#42
2,4,6-Tribromophenol
Concen: 145.632 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Tgt Ion:330 Resp: 233530

Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.9	115.3
141	31.8	26.7	40.1

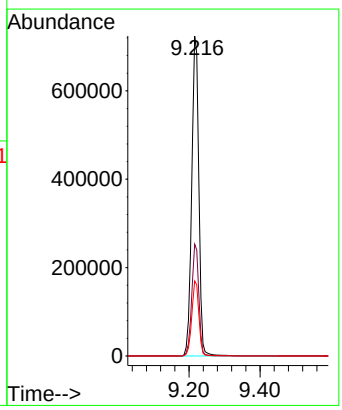


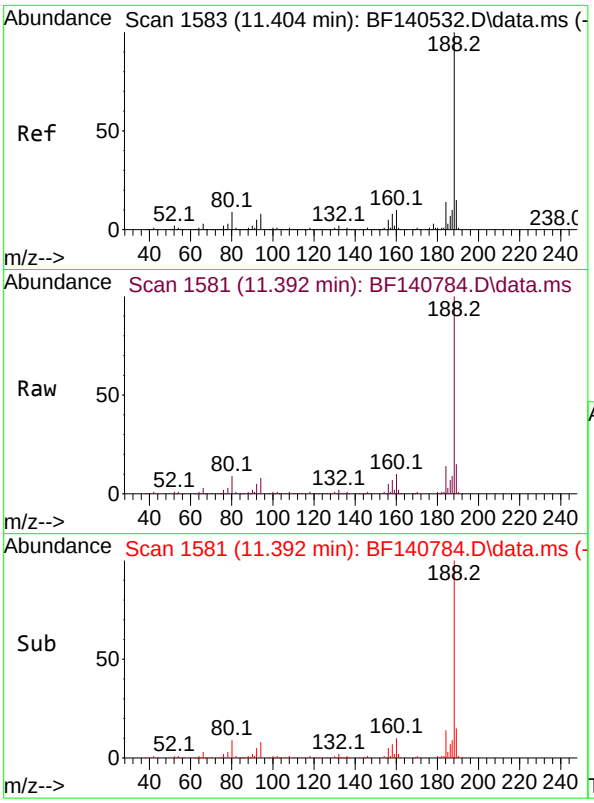


#45
2-Fluorobiphenyl
Concen: 99.983 ng
RT: 9.216 min Scan# 1211
Delta R.T. -0.018 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Tgt Ion:172 Resp: 1006138

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.4	42.6
170	23.4	19.0	28.6



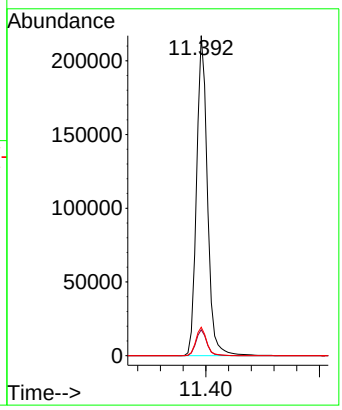


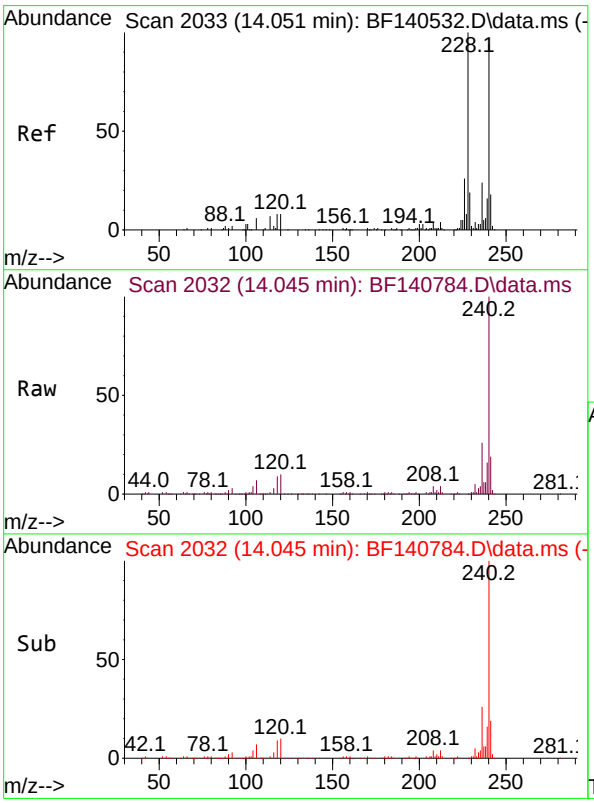
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Tgt Ion:188 Resp: 289301

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.4	9.6
80	8.9	6.9	10.3

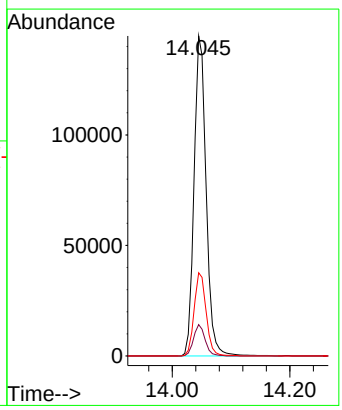


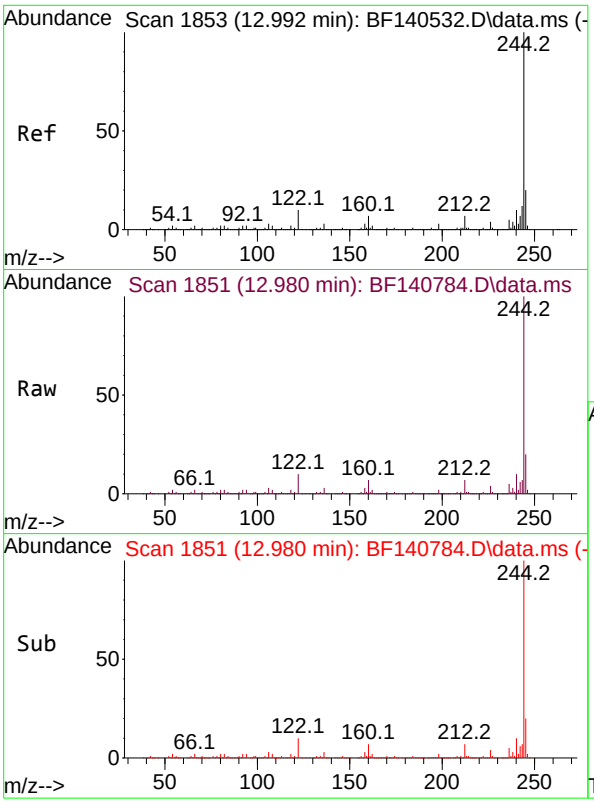


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Tgt Ion:240 Resp: 206484

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.3	10.9
236	26.0	20.6	31.0



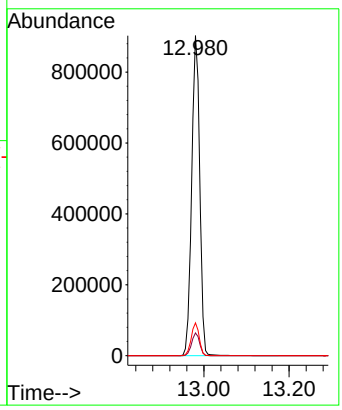


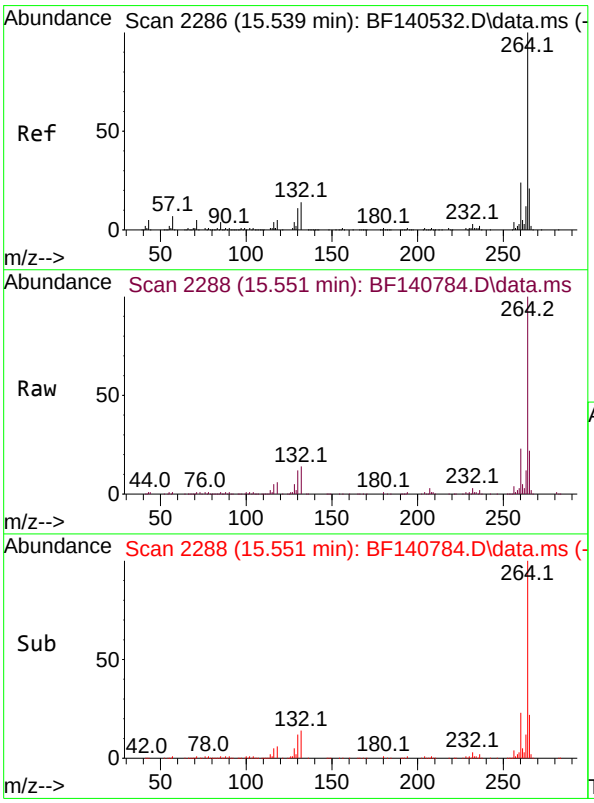
#79
Terphenyl-d14
Concen: 89.147 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Instrument :
BNA_F
ClientSampleId :
PB165432BL

Tgt Ion:244 Resp: 1182142

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	10.3	8.0	12.0

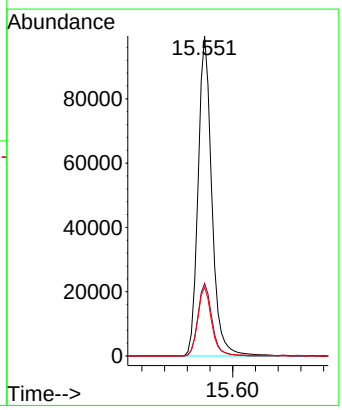




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. 0.012 min
Lab File: BF140784.D
Acq: 09 Dec 2024 12:47

Tgt Ion:264 Resp: 167176

Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.0	28.6
265	21.6	16.6	25.0



Raw Data: **BF140785.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BS	SDG No.:	P5093
Lab Sample ID:	PB165432BS	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
BF140785.D	1	12/06/24 09:33	12/09/24 13:13	PB165432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	13.9		4.00	10.0	ug/L
108-95-2	Phenol	49.8		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.6		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	49.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	49.4		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	48.7		1.40	5.00	ug/L
98-86-2	Acetophenone	46.1		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	50.6		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	48.8		1.50	2.50	ug/L
67-72-1	Hexachloroethane	46.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	43.9		1.30	5.00	ug/L
78-59-1	Isophorone	47.9		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	48.4		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	60.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	47.0		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	48.9		0.88	5.00	ug/L
91-20-3	Naphthalene	46.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	27.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.5		1.30	5.00	ug/L
105-60-2	Caprolactam	49.1		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	47.8		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	48.6		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.3		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.2		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.4		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	45.9		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	47.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	48.4		0.93	5.00	ug/L

Raw Data: **BF140785.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BS	SDG No.:	P5093
Lab Sample ID:	PB165432BS	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
BF140785.D	1	12/06/24 09:33	12/09/24 13:13	PB165432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	50.8		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	47.0		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	31.3		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.1		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	87.8	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	85.3	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	47.2		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	47.4		1.50	5.00	ug/L
84-66-2	Diethylphthalate	47.1		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	48.4		0.98	5.00	ug/L
86-73-7	Fluorene	47.8		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	47.8		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	52.4		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	48.9		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	48.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	55.0		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	84.0	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	49.5		0.89	5.00	ug/L
120-12-7	Anthracene	51.6		1.10	5.00	ug/L
86-74-8	Carbazole	50.3		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	48.3		1.50	5.00	ug/L
206-44-0	Fluoranthene	51.1		1.30	5.00	ug/L
129-00-0	Pyrene	46.2		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.8		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	50.2		0.94	5.00	ug/L
218-01-9	Chrysene	49.5		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42.4		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	40.0		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	48.0		1.10	5.00	ug/L

Raw Data: **BF140785.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BS	SDG No.:	P5093
Lab Sample ID:	PB165432BS	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
BF140785.D	1	12/06/24 09:33	12/09/24 13:13	PB165432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	55.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	54.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.0		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	50.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.1		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.7		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	42.9		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	50.7		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	142		15 (10) - 110 (139)	95%	SPK: 150
13127-88-3	Phenol-d6	140		15 (10) - 110 (134)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.7		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.9		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	146		15 (44) - 110 (137)	97%	SPK: 150
1718-51-0	Terphenyl-d14	94.4		30 (48) - 130 (125)	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74000	6.863			
1146-65-2	Naphthalene-d8	286000	8.145			
15067-26-2	Acenaphthene-d10	161000	9.904			
1517-22-2	Phenanthrene-d10	305000	11.398			
1719-03-5	Chrysene-d12	196000	14.051			
1520-96-3	Perylene-d12	142000	15.545			

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\BF120924\
Data File : BF140785.D
Acq On : 09 Dec 2024 13:13
Operator : RC/JU
Sample : PB165432BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BS

Quant Time: Dec 09 14:43:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	74041	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	285606	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	160534	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	304861	20.000	ng	0.00
76) Chrysene-d12	14.051	240	195558	20.000	ng	0.00
86) Perylene-d12	15.545	264	141616	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	617461	142.288	ng	0.01
7) Phenol-d6	6.510	99	800602	139.553	ng	0.00
23) Nitrobenzene-d5	7.428	82	517658	92.709	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	250496	145.898	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	1022931	94.940	ng	-0.01
79) Terphenyl-d14	12.980	244	1185336	94.382	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.722	88	78352	42.944	ng	99
3) Pyridine	3.493	79	193458	48.191	ng	99
4) n-Nitrosodimethylamine	3.445	42	106248	45.032	ng	93
6) Aniline	6.534	93	200799	49.728	ng	87
8) 2-Chlorophenol	6.657	128	232496	49.799	ng	96
9) Benzaldehyde	6.422	77	42317	13.934	ng	97
10) Phenol	6.528	94	291578	49.767	ng	95
11) bis(2-Chloroethyl)ether	6.598	93	226999	50.632	ng	98
12) 1,3-Dichlorobenzene	6.804	146	244825	46.670	ng	98
13) 1,4-Dichlorobenzene	6.881	146	247359	46.569	ng	100
14) 1,2-Dichlorobenzene	7.033	146	240035	48.227	ng	98
15) Benzyl Alcohol	7.010	79	206091	48.441	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.133	45	257687	48.652	ng	68
17) 2-Methylphenol	7.128	107	184431	49.350	ng	96
18) Hexachloroethane	7.369	117	91862	46.305	ng	98
19) n-Nitroso-di-n-propyla...	7.275	70	165296	48.753	ng	98
20) 3+4-Methylphenols	7.281	107	242964	50.580	ng	91
22) Acetophenone	7.275	105	320774	46.069	ng	95
24) Nitrobenzene	7.451	77	253205	43.876	ng	98
25) Isophorone	7.686	82	446359	47.928	ng	100
26) 2-Nitrophenol	7.763	139	123884	48.441	ng	97
27) 2,4-Dimethylphenol	7.804	122	185979m	60.780	ng	
28) bis(2-Chloroethoxy)met...	7.892	93	266856	47.035	ng	99
29) 2,4-Dichlorophenol	8.016	162	198214	48.887	ng	98
30) 1,2,4-Trichlorobenzene	8.086	180	209023	45.151	ng	99
31) Naphthalene	8.169	128	688857	46.825	ng	99
32) Benzoic acid	7.945	122	101267	39.525	ng	96
33) 4-Chloroaniline	8.222	127	119461	27.122	ng	98
34) Hexachlorobutadiene	8.280	225	136467	44.505	ng	99
35) Caprolactam	8.592	113	61623m	49.111	ng	
36) 4-Chloro-3-methylphenol	8.716	107	216961	47.793	ng	98
37) 2-Methylnaphthalene	8.857	142	453921	48.579	ng	99
38) 1-Methylnaphthalene	8.957	142	418495	45.693	ng	100
40) 1,2,4,5-Tetrachloroben...	9.027	216	219251	46.653	ng	99
41) Hexachlorocyclopentadiene	9.010	237	129821	118.984	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	139572	47.329	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140785.D
Acq On : 09 Dec 2024 13:13
Operator : RC/JU
Sample : PB165432BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BS

Quant Time: Dec 09 14:43:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

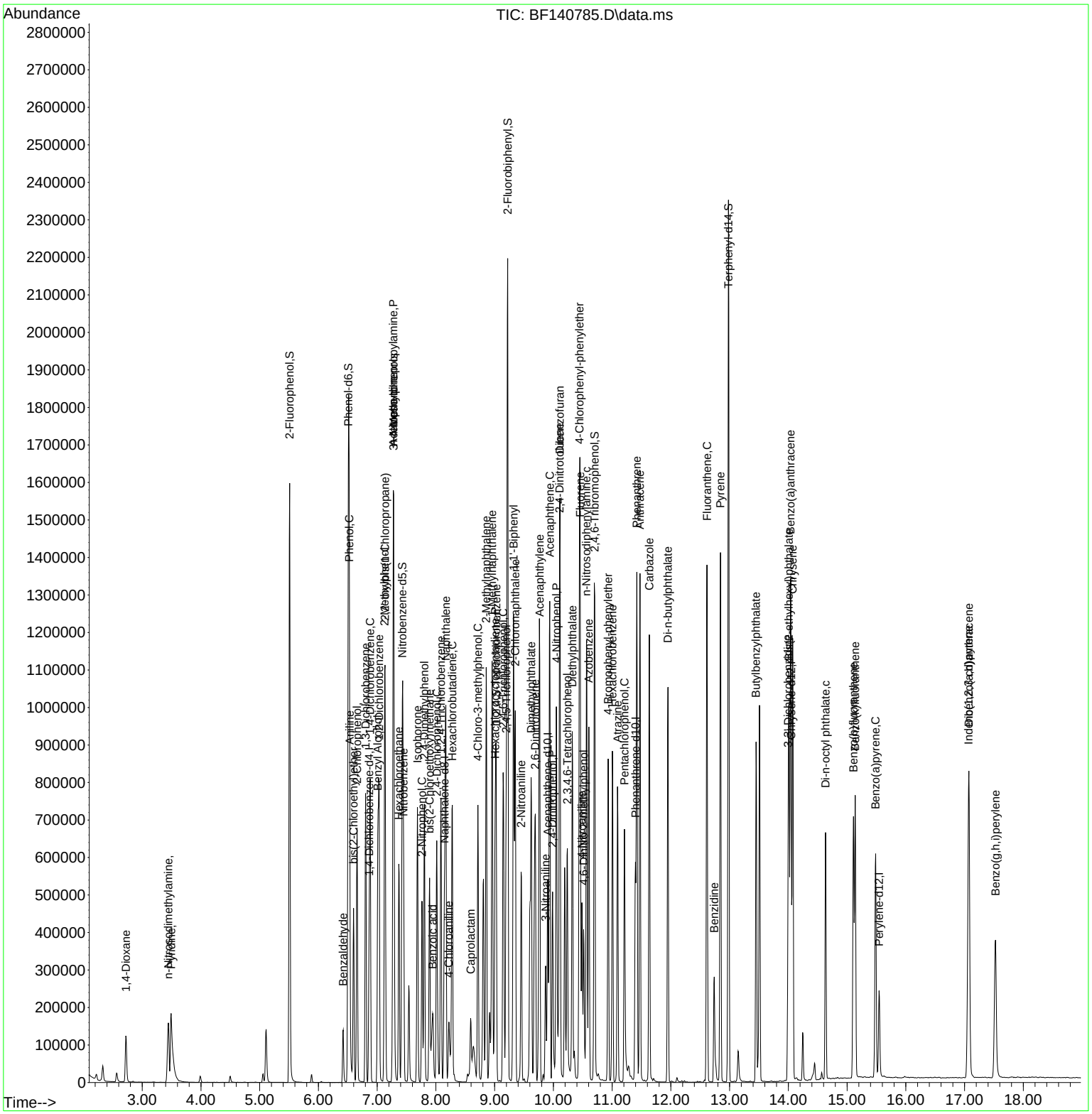
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	147816	46.186	ng	97
46) 1,1'-Biphenyl	9.322	154	568054	47.395	ng	99
47) 2-Chloronaphthalene	9.351	162	417234	45.942	ng	98
48) 2-Nitroaniline	9.451	65	137698	47.237	ng	98
49) Acenaphthylene	9.769	152	697003	50.795	ng	100
50) Dimethylphthalate	9.622	163	511708	48.399	ng	100
51) 2,6-Dinitrotoluene	9.692	165	112727	47.012	ng	96
52) Acenaphthene	9.939	154	419419	48.105	ng	100
53) 3-Nitroaniline	9.869	138	73294	31.253	ng	95
54) 2,4-Dinitrophenol	9.986	184	110022	87.755	ng	93
55) Dibenzofuran	10.110	168	627268	47.167	ng	99
56) 4-Nitrophenol	10.051	139	136451	85.313	ng	96
57) 2,4-Dinitrotoluene	10.104	165	151044	47.397	ng	95
58) Fluorene	10.457	166	510311	47.806	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	124603	50.658	ng	91
60) Diethylphthalate	10.322	149	506441	47.146	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	253381	48.367	ng	95
62) 4-Nitroaniline	10.486	138	117583	47.805	ng	96
63) Azobenzene	10.604	77	485982	47.773	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	81575	52.364	ng	97
66) n-Nitrosodiphenylamine	10.563	169	440615	48.873	ng	100
67) 4-Bromophenyl-phenylether	10.933	248	152081	48.440	ng	97
68) Hexachlorobenzene	11.004	284	170335	46.855	ng	97
69) Atrazine	11.092	200	139437	54.978	ng	100
70) Pentachlorophenol	11.210	266	134434	84.021	ng	99
71) Phenanthrene	11.421	178	725414	49.502	ng	99
72) Anthracene	11.474	178	740018	51.624	ng	99
73) Carbazole	11.633	167	692954	50.250	ng	99
74) Di-n-butylphthalate	11.951	149	768513	48.271	ng	99
75) Fluoranthene	12.615	202	813726	51.143	ng	100
77) Benzidine	12.739	184	190010	33.419	ng	99
78) Pyrene	12.845	202	835623	46.214	ng	99
80) Butylbenzylphthalate	13.451	149	298566	45.836	ng	98
81) Benzo(a)anthracene	14.039	228	649936	50.207	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	132828	34.176	ng	98
83) Chrysene	14.074	228	586446	49.544	ng	100
84) Bis(2-ethylhexyl)phtha...	14.009	149	348918	42.422	ng	99
85) Di-n-octyl phthalate	14.633	149	449578	39.996	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	470565	50.988	ng	99
88) Benzo(b)fluoranthene	15.109	252	426931	47.996	ng	100
89) Benzo(k)fluoranthene	15.139	252	434144	55.774	ng	100
90) Benzo(a)pyrene	15.486	252	392424	54.259	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	380010	50.278	ng	100
92) Benzo(g,h,i)perylene	17.527	276	362994	47.065	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140785.D
Acq On : 09 Dec 2024 13:13
Operator : RC/JU
Sample : PB165432BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BS

Quant Time: Dec 09 14:43:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Raw Data: **BF140786.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BSD	SDG No.:	P5093
Lab Sample ID:	PB165432BSD	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
BF140786.D	1	12/06/24 09:33	12/09/24 13:39	PB165432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	13.7		4.00	10.0	ug/L
108-95-2	Phenol	51.0		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.5		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	50.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	50.0		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	49.7		1.40	5.00	ug/L
98-86-2	Acetophenone	48.2		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	51.4		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.2		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.6		1.30	5.00	ug/L
78-59-1	Isophorone	49.4		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	50.2		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	62.4		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	49.0		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.4		0.88	5.00	ug/L
91-20-3	Naphthalene	47.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	24.4		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.5		1.30	5.00	ug/L
105-60-2	Caprolactam	51.8		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	49.9		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	130	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.6		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	47.4		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.1		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.3		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	48.5		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	49.9		0.93	5.00	ug/L

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BSD	SDG No.:	P5093
Lab Sample ID:	PB165432BSD	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
BF140786.D	1	12/06/24 09:33	12/09/24 13:39	PB165432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	52.0		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	47.6		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	31.1		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.9		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	94.0	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	88.6	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	49.2		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	49.1		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	49.3		0.98	5.00	ug/L
86-73-7	Fluorene	49.7		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	49.2		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	56.0		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	50.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.1		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	57.1		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	84.9	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	51.0		0.89	5.00	ug/L
120-12-7	Anthracene	53.5		1.10	5.00	ug/L
86-74-8	Carbazole	51.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	50.2		1.50	5.00	ug/L
206-44-0	Fluoranthene	52.3		1.30	5.00	ug/L
129-00-0	Pyrene	46.8		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	47.4		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	34.8		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	51.9		0.94	5.00	ug/L
218-01-9	Chrysene	50.8		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44.5		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	42.2		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	49.8		1.10	5.00	ug/L

Raw Data: **BF140786.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165432BSD	SDG No.:	P5093
Lab Sample ID:	PB165432BSD	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
BF140786.D	1	12/06/24 09:33	12/09/24 13:39	PB165432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	57.9		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	55.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.5		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	50.0		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.2		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.0		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	43.3		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	55.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	145		15 (10) - 110 (139)	97%	SPK: 150
13127-88-3	Phenol-d6	142		15 (10) - 110 (134)	94%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.3		30 (49) - 130 (133)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.4		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		15 (44) - 110 (137)	100%	SPK: 150
1718-51-0	Terphenyl-d14	96.1		30 (48) - 130 (125)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73200	6.863			
1146-65-2	Naphthalene-d8	279000	8.145			
15067-26-2	Acenaphthene-d10	158000	9.904			
1517-22-2	Phenanthrene-d10	303000	11.398			
1719-03-5	Chrysene-d12	197000	14.051			
1520-96-3	Perylene-d12	145000	15.551			

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\BF120924\
Data File : BF140786.D
Acq On : 09 Dec 2024 13:39
Operator : RC/JU
Sample : PB165432BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BSD

Quant Time: Dec 09 14:59:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.863	152	73193	20.000	ng		-0.01
21) Naphthalene-d8	8.145	136	278673	20.000	ng		-0.01
39) Acenaphthene-d10	9.904	164	158385	20.000	ng		-0.01
64) Phenanthrene-d10	11.398	188	302865	20.000	ng		0.00
76) Chrysene-d12	14.051	240	197310	20.000	ng		0.00
86) Perylene-d12	15.551	264	144540	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	623767	145.407	ng		0.01
7) Phenol-d6	6.510	99	802923	141.579	ng		0.00
23) Nitrobenzene-d5	7.428	82	519064	95.274	ng		-0.01
42) 2,4,6-Tribromophenol	10.704	330	253798	149.827	ng		0.00
45) 2-Fluorobiphenyl	9.222	172	1024485	96.374	ng		-0.01
79) Terphenyl-d14	12.980	244	1218192	96.137	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.716	88	78139	43.323	ng		98
3) Pyridine	3.487	79	190763	48.070	ng		99
4) n-Nitrosodimethylamine	3.440	42	107532	46.104	ng	#	94
6) Aniline	6.528	93	194197	48.650	ng	#	53
8) 2-Chlorophenol	6.657	128	235114	50.944	ng		95
9) Benzaldehyde	6.416	77	40994	13.654	ng		99
10) Phenol	6.528	94	295560	51.031	ng		96
11) bis(2-Chloroethyl)ether	6.598	93	223863	50.511	ng		100
12) 1,3-Dichlorobenzene	6.804	146	246713	47.574	ng		98
13) 1,4-Dichlorobenzene	6.881	146	250186	47.647	ng		99
14) 1,2-Dichlorobenzene	7.034	146	236430	48.053	ng		99
15) Benzyl Alcohol	7.010	79	209580	49.832	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.134	45	260162	49.688	ng		66
17) 2-Methylphenol	7.128	107	184673	49.987	ng		95
18) Hexachloroethane	7.369	117	92589	47.212	ng		98
19) n-Nitroso-di-n-propyla...	7.275	70	166492	49.674	ng		98
20) 3+4-Methylphenols	7.281	107	244226	51.431	ng	#	89
22) Acetophenone	7.275	105	327281	48.173	ng		95
24) Nitrobenzene	7.451	77	256807	45.608	ng		97
25) Isophorone	7.687	82	449222	49.435	ng		99
26) 2-Nitrophenol	7.763	139	125348	50.233	ng		98
27) 2,4-Dimethylphenol	7.804	122	186395m	62.431	ng		
28) bis(2-Chloroethoxy)met...	7.892	93	271159	48.982	ng		100
29) 2,4-Dichlorophenol	8.016	162	199255	50.366	ng		98
30) 1,2,4-Trichlorobenzene	8.087	180	208911	46.250	ng		99
31) Naphthalene	8.169	128	686681	47.839	ng		99
32) Benzoic acid	7.951	122	105154	41.601	ng		97
33) 4-Chloroaniline	8.222	127	105000	24.432	ng		99
34) Hexachlorobutadiene	8.275	225	136222	45.531	ng		99
35) Caprolactam	8.592	113	63367m	51.758	ng		
36) 4-Chloro-3-methylphenol	8.716	107	219110	49.467	ng		99
37) 2-Methylnaphthalene	8.857	142	455202	49.928	ng		99
38) 1-Methylnaphthalene	8.957	142	419555	46.948	ng		99
40) 1,2,4,5-Tetrachloroben...	9.022	216	222560	47.999	ng		99
41) Hexachlorocyclopentadiene	9.004	237	137226	126.956	ng		99
43) 2,4,6-Trichlorophenol	9.145	196	138517	47.609	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140786.D
Acq On : 09 Dec 2024 13:39
Operator : RC/JU
Sample : PB165432BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BSD

Quant Time: Dec 09 14:59:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

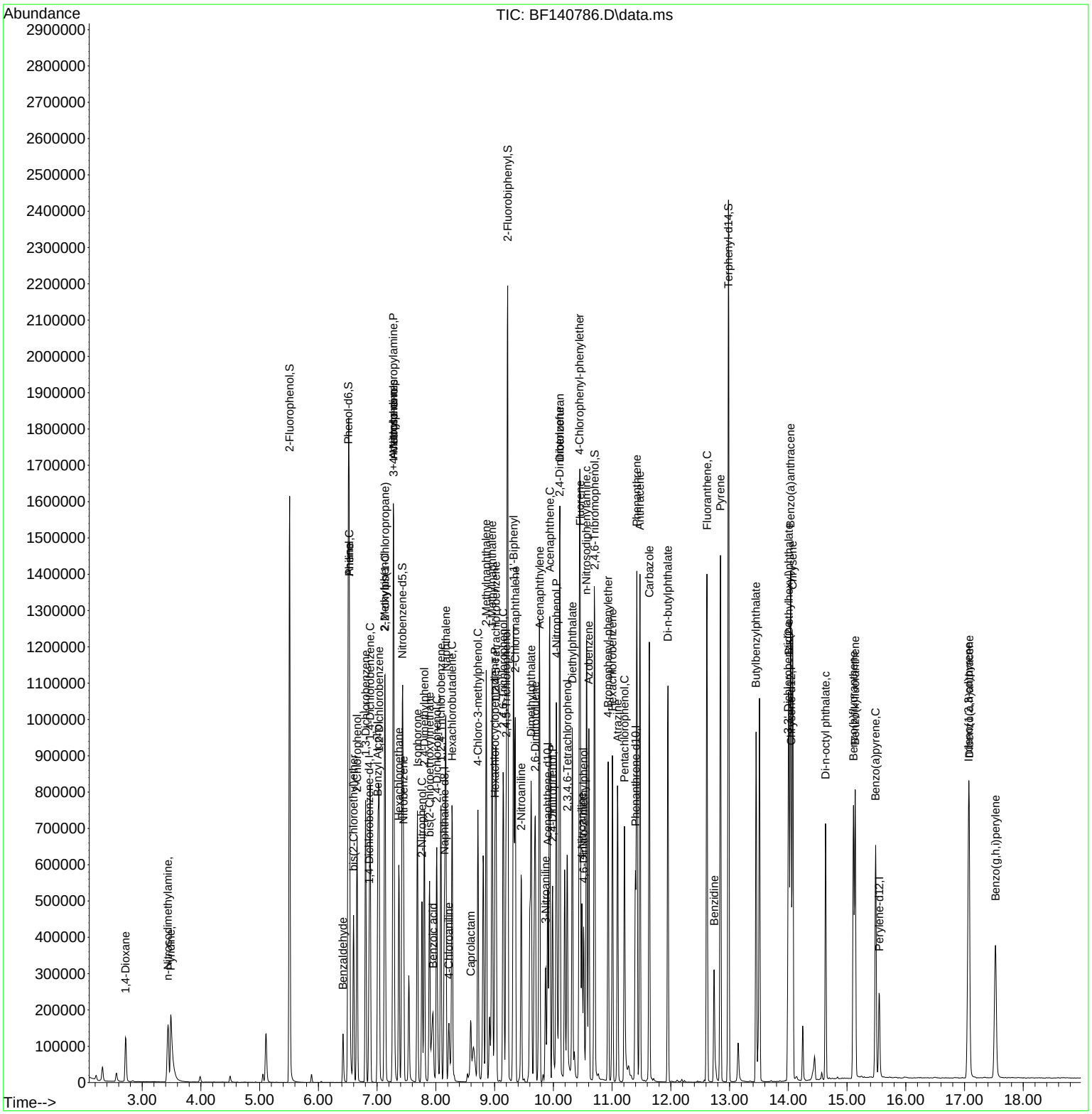
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	149574	47.369	ng	96
46) 1,1'-Biphenyl	9.322	154	568594	48.083	ng	100
47) 2-Chloronaphthalene	9.351	162	423681	47.285	ng	98
48) 2-Nitroaniline	9.451	65	139377	48.461	ng	98
49) Acenaphthylene	9.769	152	703593	51.971	ng	100
50) Dimethylphthalate	9.622	163	520609	49.909	ng	100
51) 2,6-Dinitrotoluene	9.692	165	112671	47.626	ng	98
52) Acenaphthene	9.939	154	420591	48.894	ng	99
53) 3-Nitroaniline	9.869	138	72049	31.139	ng	93
54) 2,4-Dinitrophenol	9.986	184	116967	93.953	ng	93
55) Dibenzofuran	10.110	168	645934	49.229	ng	99
56) 4-Nitrophenol	10.051	139	139857	88.629	ng	96
57) 2,4-Dinitrotoluene	10.104	165	153539	48.834	ng	96
58) Fluorene	10.457	166	523114	49.670	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	134235	55.314	ng	89
60) Diethylphthalate	10.322	149	520400	49.103	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	255055	49.348	ng	95
62) 4-Nitroaniline	10.486	138	119420	49.210	ng	96
63) Azobenzene	10.604	77	493413	49.162	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	86658	55.993	ng	97
66) n-Nitrosodiphenylamine	10.563	169	453637	50.649	ng	100
67) 4-Bromophenyl-phenylether	10.933	248	153198	49.117	ng	97
68) Hexachlorobenzene	11.004	284	169419	46.910	ng	97
69) Atrazine	11.092	200	143894	57.109	ng	99
70) Pentachlorophenol	11.210	266	134911	84.875	ng	99
71) Phenanthrene	11.422	178	742937	51.031	ng	99
72) Anthracene	11.475	178	761784	53.493	ng	99
73) Carbazole	11.633	167	700466	51.129	ng	100
74) Di-n-butylphthalate	11.951	149	793652	50.179	ng	99
75) Fluoranthene	12.616	202	827253	52.336	ng	99
77) Benzidine	12.739	184	205459	35.815	ng	99
78) Pyrene	12.845	202	852967	46.754	ng	100
80) Butylbenzylphthalate	13.451	149	311497	47.397	ng	99
81) Benzo(a)anthracene	14.039	228	678137	51.920	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	136310	34.760	ng	99
83) Chrysene	14.074	228	607079	50.832	ng	99
84) Bis(2-ethylhexyl)phtha...	14.010	149	369429	44.517	ng	99
85) Di-n-octyl phthalate	14.633	149	478863	42.223	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	475316	50.461	ng	99
88) Benzo(b)fluoranthene	15.110	252	452228	49.812	ng	99
89) Benzo(k)fluoranthene	15.139	252	460344	57.944	ng	99
90) Benzo(a)pyrene	15.486	252	409471	55.471	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	386012	50.039	ng	99
92) Benzo(g,h,i)perylene	17.527	276	371662	47.214	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120924\
Data File : BF140786.D
Acq On : 09 Dec 2024 13:39
Operator : RC/JU
Sample : PB165432BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165432BSD

Quant Time: Dec 09 14:59:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	BF112124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF140530.D	Benzoic acid	yogesh	11/22/2024 3:53:18 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICC020	BF140531.D	Acenaphthene	yogesh	11/22/2024 3:53:19 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICCC040	BF140532.D	Acenaphthene	yogesh	11/22/2024 3:53:21 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICV040	BF140536.D	Acenaphthene	yogesh	11/22/2024 3:53:22 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	Acenaphthene	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf120624	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140760.D	2,4-Dimethylphenol	yogesh	12/10/2024 12:49:40 AM	mohammad	12/10/2024 1:02:52 AM	Peak Integrated by Software
SSTDCCC040	BF140760.D	Caprolactam	yogesh	12/10/2024 12:49:40 AM	mohammad	12/10/2024 1:02:52 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF120924	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM				
SubDirectory	BF112124	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140526.D	21 Nov 2024 10:17	RC/JU	Ok
2	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	RC/JU	Not Ok
3	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13	RC/JU	Ok
4	SSTDICC005	BF140529.D	21 Nov 2024 11:39	RC/JU	Ok
5	SSTDICC010	BF140530.D	21 Nov 2024 12:05	RC/JU	Ok,M
6	SSTDICC020	BF140531.D	21 Nov 2024 12:32	RC/JU	Ok,M
7	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	RC/JU	Ok,M
8	SSTDICC050	BF140533.D	21 Nov 2024 13:25	RC/JU	Ok
9	SSTDICC060	BF140534.D	21 Nov 2024 13:51	RC/JU	Ok
10	SSTDICC080	BF140535.D	21 Nov 2024 14:18	RC/JU	Ok
11	SSTDICV040	BF140536.D	21 Nov 2024 15:07	RC/JU	Ok,M
12	PB165144BL	BF140537.D	21 Nov 2024 15:34	RC/JU	Ok
13	DFTPP	BF140538.D	21 Nov 2024 16:27	RC/JU	Ok
14	SSTDCCC040	BF140539.D	21 Nov 2024 16:54	RC/JU	Ok,M
15	PB165060TB	BF140540.D	21 Nov 2024 17:20	RC/JU	Ok
16	P4887-06	BF140541.D	21 Nov 2024 17:55	RC/JU	Ok
17	P4887-02	BF140542.D	21 Nov 2024 18:21	RC/JU	Ok
18	P4870-16	BF140543.D	21 Nov 2024 18:48	RC/JU	Ok
19	P4870-15	BF140544.D	21 Nov 2024 19:14	RC/JU	Ok
20	P4870-14	BF140545.D	21 Nov 2024 19:40	RC/JU	Ok
21	P4870-13	BF140546.D	21 Nov 2024 20:07	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM				
SubDirectory	BF112124	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4929-02	BF140547.D	21 Nov 2024 20:33	RC/JU	Ok
23	P4924-04	BF140548.D	21 Nov 2024 20:59	RC/JU	Ok
24	P4921-01	BF140549.D	21 Nov 2024 21:25	RC/JU	Ok
25	P4916-12	BF140550.D	21 Nov 2024 21:51	RC/JU	Ok
26	P4916-08	BF140551.D	21 Nov 2024 22:18	RC/JU	Ok
27	P4916-04	BF140552.D	21 Nov 2024 22:44	RC/JU	Ok
28	P4887-01	BF140553.D	21 Nov 2024 23:10	RC/JU	Ok
29	P4916-09	BF140554.D	21 Nov 2024 23:36	RC/JU	Ok
30	P4916-09MS	BF140555.D	22 Nov 2024 00:02	RC/JU	Ok,M
31	P4916-09MSD	BF140556.D	22 Nov 2024 00:28	RC/JU	Ok,M
32	P4916-01	BF140557.D	22 Nov 2024 00:54	RC/JU	Ok
33	P4916-05RE	BF140558.D	22 Nov 2024 01:21	RC/JU	Confirms
34	P4887-05RE	BF140559.D	22 Nov 2024 01:47	RC/JU	Confirms
35	P4924-01	BF140560.D	22 Nov 2024 02:13	RC/JU	ReRun
36	P4936-01	BF140561.D	22 Nov 2024 02:39	RC/JU	Ok,M
37	P4929-01	BF140562.D	22 Nov 2024 03:06	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF120624

Review By	yogesh	Review On	12/10/2024 12:52:35 AM				
Supervise By	mohammad	Supervise On	12/10/2024 1:02:52 AM				
SubDirectory	BF120624	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12331,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140759.D	06 Dec 2024 11:41	RC/JU	Ok
2	SSTDCCC040	BF140760.D	06 Dec 2024 12:08	RC/JU	Ok,M
3	PB165423BL	BF140761.D	06 Dec 2024 12:51	RC/JU	Ok
4	PB165423BS	BF140762.D	06 Dec 2024 13:16	RC/JU	Ok,M
5	P5133-01	BF140763.D	06 Dec 2024 13:48	RC/JU	Ok
6	P5137-01	BF140764.D	06 Dec 2024 14:14	RC/JU	Ok
7	P5093-01	BF140765.D	06 Dec 2024 14:40	RC/JU	Ok
8	P5093-02	BF140766.D	06 Dec 2024 15:06	RC/JU	Ok
9	P5145-01	BF140767.D	06 Dec 2024 15:32	RC/JU	Ok
10	P5095-04	BF140768.D	06 Dec 2024 15:58	RC/JU	Ok
11	P5095-04MS	BF140769.D	06 Dec 2024 16:24	RC/JU	Not Ok
12	P5095-04MSD	BF140770.D	06 Dec 2024 16:50	RC/JU	Not Ok
13	P5096-04	BF140771.D	06 Dec 2024 17:16	RC/JU	Ok
14	P5096-08	BF140772.D	06 Dec 2024 17:42	RC/JU	Ok
15	P5117-02	BF140773.D	06 Dec 2024 18:08	RC/JU	Not Ok
16	P5133-02	BF140774.D	06 Dec 2024 18:34	RC/JU	Ok
17	P5136-02	BF140775.D	06 Dec 2024 19:00	RC/JU	Ok
18	P5096-01DL	BF140776.D	06 Dec 2024 19:26	RC/JU	Ok,M
19	P5108-01	BF140777.D	06 Dec 2024 19:52	RC/JU	Ok
20	P5136-01	BF140778.D	06 Dec 2024 20:18	RC/JU	Ok
21	P5112-01	BF140779.D	06 Dec 2024 20:44	RC/JU	Dilution

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF120624

Review By	yogesh	Review On	12/10/2024 12:52:35 AM				
Supervise By	mohammad	Supervise On	12/10/2024 1:02:52 AM				
SubDirectory	BF120624	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12331,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P5112-01MS	BF140780.D	06 Dec 2024 21:10	RC/JU	Ok,M
23	P5112-01MSD	BF140781.D	06 Dec 2024 21:36	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF120924

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BF120924	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12331,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140782.D	09 Dec 2024 11:55	RC/JU	Ok
2	SSTDCCC040	BF140783.D	09 Dec 2024 12:21	RC/JU	Ok,NR
3	PB165432BL	BF140784.D	09 Dec 2024 12:47	RC/JU	Ok
4	PB165432BS	BF140785.D	09 Dec 2024 13:13	RC/JU	Ok,NR
5	PB165432BSD	BF140786.D	09 Dec 2024 13:39	RC/JU	Ok,NR
6	PB165435BL	BF140787.D	09 Dec 2024 14:05	RC/JU	Ok
7	PB165435BS	BF140788.D	09 Dec 2024 14:31	RC/JU	Ok,NR
8	PB165390TB	BF140789.D	09 Dec 2024 14:58	RC/JU	Ok
9	P5117-02	BF140790.D	09 Dec 2024 15:29	RC/JU	Ok
10	P5095-04MS	BF140791.D	09 Dec 2024 15:55	RC/JU	Ok,NR
11	P5095-04MSD	BF140792.D	09 Dec 2024 16:22	RC/JU	Ok,NR
12	SSTDCCC040	BF140793.D	09 Dec 2024 16:54	RC/JU	Ok,NR

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM				
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124		

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/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	BF140526.D	21 Nov 2024 10:17		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF140529.D	21 Nov 2024 11:39	Compound#9,32,41,54,56,65,70 removed from 5 ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF140530.D	21 Nov 2024 12:05		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF140531.D	21 Nov 2024 12:32	Compound#32,41,54 Kept on LR	RC/JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	Calibration failed for Benzidine	RC/JU	Ok,M
8	SSTDICC050	SSTDICC050	BF140533.D	21 Nov 2024 13:25	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF140534.D	21 Nov 2024 13:51		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF140535.D	21 Nov 2024 14:18	Compound#9 removed from 80 ppm	RC/JU	Ok
11	SSTDICV040	ICVBF112124	BF140536.D	21 Nov 2024 15:07		RC/JU	Ok,M
12	PB165144BL	PB165144BL	BF140537.D	21 Nov 2024 15:34		RC/JU	Ok
13	DFTPP	DFTPP	BF140538.D	21 Nov 2024 16:27		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF140539.D	21 Nov 2024 16:54		RC/JU	Ok,M
15	PB165060TB	PB165060TB	BF140540.D	21 Nov 2024 17:20		RC/JU	Ok
16	P4887-06	MH-760	BF140541.D	21 Nov 2024 17:55		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4887-02	MH-739	BF140542.D	21 Nov 2024 18:21		RC/JU	Ok
18	P4870-16	TP-15	BF140543.D	21 Nov 2024 18:48		RC/JU	Ok
19	P4870-15	MH-736	BF140544.D	21 Nov 2024 19:14		RC/JU	Ok
20	P4870-14	MH-735	BF140545.D	21 Nov 2024 19:40		RC/JU	Ok
21	P4870-13	TP-1	BF140546.D	21 Nov 2024 20:07		RC/JU	Ok
22	P4929-02	ARS520	BF140547.D	21 Nov 2024 20:33		RC/JU	Ok
23	P4924-04	MH-4	BF140548.D	21 Nov 2024 20:59		RC/JU	Ok
24	P4921-01	WC-11-A-202411	BF140549.D	21 Nov 2024 21:25		RC/JU	Ok
25	P4916-12	TP-3-WC	BF140550.D	21 Nov 2024 21:51		RC/JU	Ok
26	P4916-08	TP-2-WC	BF140551.D	21 Nov 2024 22:18		RC/JU	Ok
27	P4916-04	TP-1-WC	BF140552.D	21 Nov 2024 22:44		RC/JU	Ok
28	P4887-01	MH-739	BF140553.D	21 Nov 2024 23:10		RC/JU	Ok
29	P4916-09	TP-3-WC	BF140554.D	21 Nov 2024 23:36		RC/JU	Ok
30	P4916-09MS	TP-3-WCMS	BF140555.D	22 Nov 2024 00:02		RC/JU	Ok,M
31	P4916-09MSD	TP-3-WCMSD	BF140556.D	22 Nov 2024 00:28		RC/JU	Ok,M
32	P4916-01	TP-1-WC	BF140557.D	22 Nov 2024 00:54		RC/JU	Ok
33	P4916-05RE	TP-2-WCRE	BF140558.D	22 Nov 2024 01:21	Internal Standard Fail	RC/JU	Confirms
34	P4887-05RE	MH-760RE	BF140559.D	22 Nov 2024 01:47	Internal Standard Fail	RC/JU	Confirms
35	P4924-01	MH-4	BF140560.D	22 Nov 2024 02:13	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	P4936-01	PL-01-11202024	BF140561.D	22 Nov 2024 02:39	Internal Standard Fail	RC/JU	Ok,M
37	P4929-01	ARS520	BF140562.D	22 Nov 2024 03:06	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF120624

Review By	yogesh	Review On	12/10/2024 12:52:35 AM		
Supervise By	mohammad	Supervise On	12/10/2024 1:02:52 AM		
SubDirectory	BF120624	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12331,10ul/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	BF140759.D	06 Dec 2024 11:41		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140760.D	06 Dec 2024 12:08		RC/JU	Ok,M
3	PB165423BL	PB165423BL	BF140761.D	06 Dec 2024 12:51		RC/JU	Ok
4	PB165423BS	PB165423BS	BF140762.D	06 Dec 2024 13:16		RC/JU	Ok,M
5	P5133-01	MOO-24-00374	BF140763.D	06 Dec 2024 13:48	Internal Standard Fail	RC/JU	Ok
6	P5137-01	LAW-OILY-STONES	BF140764.D	06 Dec 2024 14:14	Internal Standard Fail	RC/JU	Ok
7	P5093-01	LL-001	BF140765.D	06 Dec 2024 14:40		RC/JU	Ok
8	P5093-02	LL-001-FB-12-4-24	BF140766.D	06 Dec 2024 15:06		RC/JU	Ok
9	P5145-01	286085	BF140767.D	06 Dec 2024 15:32	Internal Standard Fail	RC/JU	Ok
10	P5095-04	MH-764	BF140768.D	06 Dec 2024 15:58		RC/JU	Ok
11	P5095-04MS	MH-764MS	BF140769.D	06 Dec 2024 16:24	END CCC Missing	RC/JU	Not Ok
12	P5095-04MSD	MH-764MSD	BF140770.D	06 Dec 2024 16:50	END CCC Missing	RC/JU	Not Ok
13	P5096-04	MH-B	BF140771.D	06 Dec 2024 17:16		RC/JU	Ok
14	P5096-08	MH-A	BF140772.D	06 Dec 2024 17:42		RC/JU	Ok
15	P5117-02	TAPIAL2-IDW-SOIL-12(	BF140773.D	06 Dec 2024 18:08	END CCC Missing	RC/JU	Not Ok
16	P5133-02	MOO-24-00374	BF140774.D	06 Dec 2024 18:34		RC/JU	Ok
17	P5136-02	COMP-1	BF140775.D	06 Dec 2024 19:00		RC/JU	Ok
18	P5096-01DL	MH-BDL	BF140776.D	06 Dec 2024 19:26		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF120624

Review By	yogesh	Review On	12/10/2024 12:52:35 AM		
Supervise By	mohammad	Supervise On	12/10/2024 1:02:52 AM		
SubDirectory	BF120624	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12331,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5108-01	ASPHALT-COMP	BF140777.D	06 Dec 2024 19:52		RC/JU	Ok
20	P5136-01	COMP-1	BF140778.D	06 Dec 2024 20:18	Internal Standard Fail	RC/JU	Ok
21	P5112-01	10TH-ST-SOIL	BF140779.D	06 Dec 2024 20:44	Internal Standard Fail, Need 5X Dilution	RC/JU	Dilution
22	P5112-01MS	10TH-ST-SOILMS	BF140780.D	06 Dec 2024 21:10		RC/JU	Ok,M
23	P5112-01MSD	10TH-ST-SOILMSD	BF140781.D	06 Dec 2024 21:36		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF120924

Review By		Review On					
Supervise By		Supervise On					
SubDirectory	BF120924	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12331,10ul/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	BF140782.D	09 Dec 2024 11:55		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140783.D	09 Dec 2024 12:21		RC/JU	Ok,NR
3	PB165432BL	PB165432BL	BF140784.D	09 Dec 2024 12:47		RC/JU	Ok
4	PB165432BS	PB165432BS	BF140785.D	09 Dec 2024 13:13		RC/JU	Ok,NR
5	PB165432BSD	PB165432BSD	BF140786.D	09 Dec 2024 13:39		RC/JU	Ok,NR
6	PB165435BL	PB165435BL	BF140787.D	09 Dec 2024 14:05		RC/JU	Ok
7	PB165435BS	PB165435BS	BF140788.D	09 Dec 2024 14:31		RC/JU	Ok,NR
8	PB165390TB	PB165390TB	BF140789.D	09 Dec 2024 14:58		RC/JU	Ok
9	P5117-02	TAPIAL2-IDW-SOIL-12(	BF140790.D	09 Dec 2024 15:29		RC/JU	Ok
10	P5095-04MS	MH-764MS	BF140791.D	09 Dec 2024 15:55		RC/JU	Ok,NR
11	P5095-04MSD	MH-764MSD	BF140792.D	09 Dec 2024 16:22		RC/JU	Ok,NR
12	SSTDCCC040	SSTDCCC040EC	BF140793.D	09 Dec 2024 16:54		RC/JU	Ok,NR

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165432

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RJ

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 12/06/2024

Extraction Start Time : 09:33

Extraction End Date : 12/06/2024

Extraction End Time : 14:30

Concentration By: EH

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	SP6681
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3845
Baked Na2SO4	N/A	EP2570
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. p H Adjusted<2 with 1:1 H2SO4 &>11 with 10N NaOH.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/6/24	RP (Ext lab)	Relsvc
14:35	**Preparation Group**	**Analysis Group**

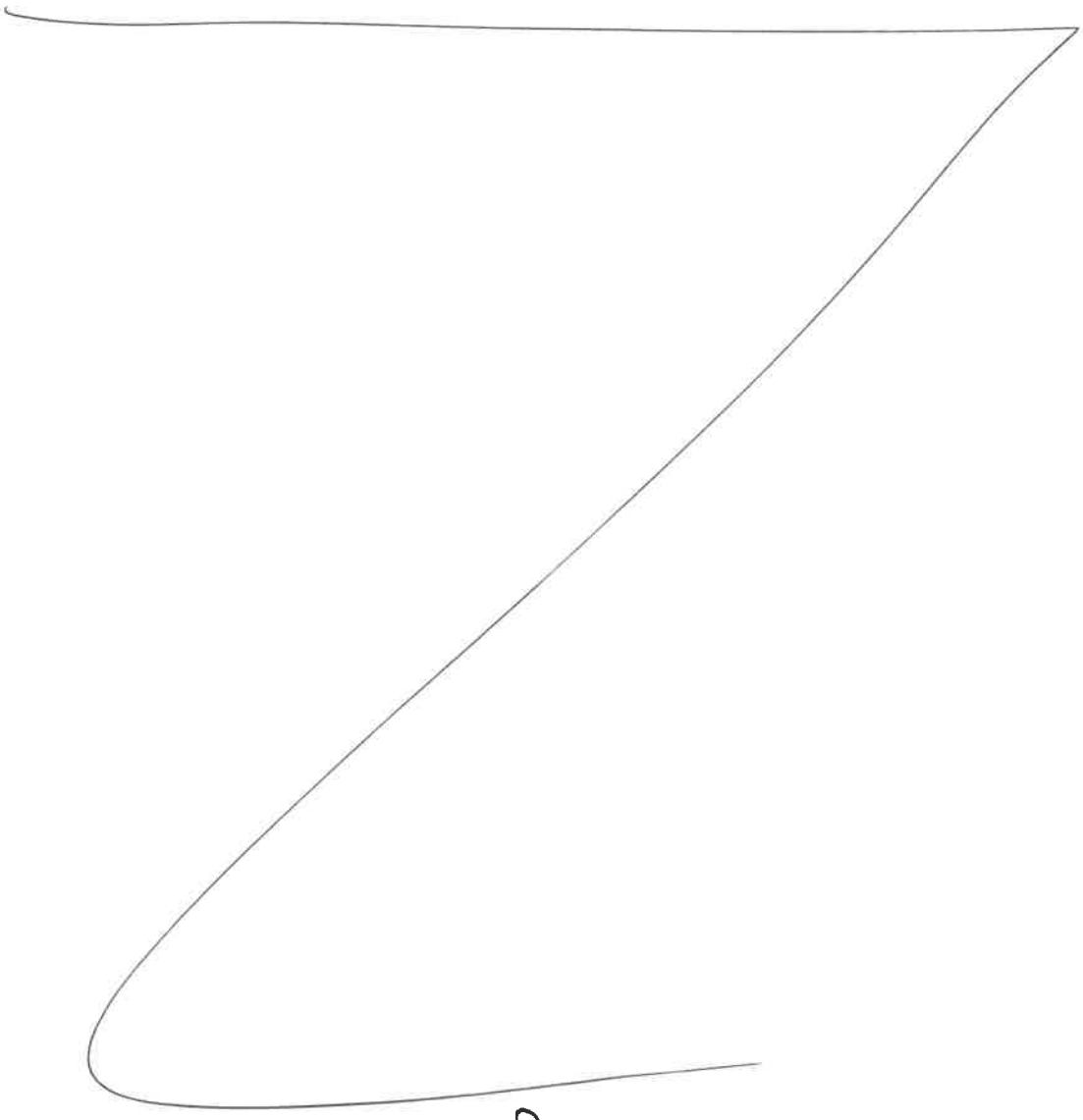
Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165432

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 12/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165432BL	SBLK432	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB165432BS	SLCS432	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
PB165432BSD	SLCSD432	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			3
P5093-01	LL-001	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	G		4
P5093-02	LL-001-FB-12-4-24	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	G		5
P5145-01	286085	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	Q		6



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

12/6/24

67432
9133

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5145 **WorkList ID :** 186046 **Department :** Extraction **Date :** 12-06-2024 08:28:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5093-01	LL-001	Water	SVOC-TCL BNA -20	Cool 4 deg C	RTHR01	L41	12/04/2024	8270E
P5093-02	LL-001-FB-12-4-24	Water	SVOC-TCL BNA -20	Cool 4 deg C	RTHR01	L41	12/04/2024	8270E
P5145-01	286085	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	12/05/2024	8270E

Date/Time 12/6/24 9:30
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: JD(Sm)

Date/Time 12/6/24 10:00
Raw Sample Received by: JD(Sm)
Raw Sample Relinquished by: RJ (Ext Lab)

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.
QUOTE NO. P50093
COC Number 2040990 P5094

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: R3M Engineering, INC
ADDRESS: 11 Landing Ln.
CITY New Brunswick STATE: NJ ZIP:
ATTENTION: Stacey L. Felts-Bock
PHONE: (973) 207-1820 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MC054.36 23-B-1 LM - Landing Lane New Brunswick
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: _____ 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 _____

ANALYSIS

1 VOC-TCL
2 SVOC-TCL BNA 20
3 Pest./PCB
4 TOC
5 Dioxin
6 Metals
7 Cyanide
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	2	3	4	5	6	7	8	9	COMMENTS
								A	E	E	C	E	B	D			← Specify Preservatives
1.	LL-001	W.		X	12/4	1105	10	X	X	X	X	X	X	X			A-HCl D-NaOH
2.	LL-001-FB-12-4-24	W		X	12/4	1100	10	X	X	X	X	X	X	X			B-HN03 E-ICE
3.	TB-12-4-24	W		X	12/4	—	2	X									C-H2SO4 F-OTHER
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1.	DATE/TIME: 1200 12/4/24	RECEIVED BY: 1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1300 12/4/24	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 5.3°C °C
Comments:

Page 1 of 1

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

LOW FLOW SAMPLING
DATA SHEET

SHEET 1 OF 1

SITE: Landing Lane New Brunswick
DATE: 12-4-24
WEATHER:

CONSULTING FIRM: Alliance Technical Group
FIELD PERSONNEL: Gorge Vegnon

MONITOR WELL #:
WELL PERMIT #:
WELL DEPTH: 20'
WELL DIAMETER: 2" inches
SCREENED/OPEN INTERVAL:

PID/FID READINGS (ppm):
BACKGROUND: 0.0
BENEATH OUTER CAP: 0.0
BENEATH INNER CAP: 0.0

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 22.8' ft below TOC

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0925	X		7.38	NA	0.266	NA	162	NA	4.60	NA	257	NA	15.42	NA	—	22.8'
0930	X		7.24	0.14	0.261	0.005	157	5	4.03	0.57	253	4	16.05	0.63	—	22.8'
0935	X		7.14	0.1	0.257	0.004	139	18	2.77	1.26	94.8	158.2	16.44	0.39	—	22.8'
0940	X		7.11	0.03	0.255	0.002	132	7	1.89	0.88	73.6	21.2	16.66	0.22	—	22.8'
0945	X		7.11	0	0.254	0.001	128	4	1.19	0.7	60.1	13.5	16.92	0.26	—	22.8'
0950	X		7.11	0	0.252	0.002	122	6	2.11	0.92	54.2	5.9	16.82	0.1	—	22.8'
0955	X		7.11	0	0.253	0.001	121	1	2.12	0.01	52.8	1.4	16.79	0.03	—	22.8'
1000	X		7.11	0	0.255	0.002	120	1	2.08	0.04	52.6	0.2	16.78	0.01	—	22.8'
1005		X	7.11	0	0.257	0.002	122	2	2.06	0.02	51.9	0.9	16.77	0.01	—	22.8'

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

Alliance Technical Group, LLC-Newark

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

FIELD SAMPLING LOG

Client Name: R3M Engineering, INC

Client Address: 11 Landing Ln. New Brunswick

Client Rep on Site: Stacey L. Fehto-Bock

Sampling Date: 12-4-24

Arrival Time: 0700 Departure Time: 1200

Project Name: MC054.36 23-8-1 LH-Landing Lane New Brunswick

Project Location: New Brunswick

Cooler Custody Seal: N/A

Temperature Correction Factor (°C): —

FIELD EQUIPMENT CALIBRATION

pH Calibration (SM4500-H B/9040C)				
	Calibration			ICV (± 0.1 pH unit)
	7.00 Buffer W 3071	4.00 Buffer W 3107	10.00 Buffer W 3094	7.00 Buffer W 3093
Time	0710	0712	0714	0716
Temp °C	14.92	14.96	14.90	14.93
pH	7.00	4.01	10.02	7.00

FIELD EQUIPMENT CALIBRATION

Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A)		
	Calibration (± 1%) (99% -101%)	ICV (± 1%) (99% -101%)
	WP	WP
Time		
Temp °C		
Reading (mS/cm)		

Sampler Signature/Date: [signature] 12/4/24

Supervisor Review/Date:

Alliance Technical Group, LLC-Newark

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

FIELD SAMPLING LOG

Client Name: R3M Engineering, INC

Client Address: 11 Landing Ln.

Client Rep on Site: Stacey L. Felts-Bock

Sampling Date: 12-4-24

Arrival Time: 0700 Departure Time: _____

Project Name: MC054 36 23-8-1 LM-Landing Lane New Brunswick

Project Location: New Brunswick

Cooler Custody Seal: N/A

Temperature Correction Factor (°C): —

FIELD SAMPLING INFORMATION

Sampling Location	Date/Time of sampling	Field Measurements			
		Date/Time of Analysis	pH	Temperature °C	Specific Conductance (mS/cm) (99% -101%)
CCV (W3071)	12-4-24 0959	12-4-24 1001	7.01	16.70	0.266
LL-001	1003	1005	7.11	16.77	0.257
DUP	1007	1009	7.11	16.76	0.255
CCV (W3071)	1011	1013	7.00	16.72	0.264

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date: [signature] 12/4/24

Supervisor Review/Date: _____

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 (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5093 RTHR01
Client Name : R3M Engineering, Inc.
Client Contact : Stacey L. Felts-Bock
Invoice Name : R3M Engineering, Inc.
Invoice Contact : Stacey L. Felts-Bock

Order Date : 12/4/2024 12:24:38 PM
Project Name : MC054.36 23-8-1 LM - Lar
Receive DateTime : 12/4/2024 ~~12:00:00 AM~~ 13:00
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5093-01	LL-001	Water	12/04/2024	11:05					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days
P5093-02	LL-001-FB-12-4-24	Water	12/04/2024	11:00					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days
P5093-03	TB-12-4-24	Water	12/04/2024	00:00					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days

Relinguished By : AV
Date / Time : 12/4/24 1400

Received By : Sally
Date / Time : 12/4/24 14:00 NG 12 4

Storage Area : **VOA Refridgerator Room**