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Cover Page

Order ID : P4921

Project ID : Meeker Ave Plumes Superfund Site RI FS

Client : AECOM

Lab Sample Number	Client Sample Number
P4921-01	WC-11-A-202411

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: 11/29/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM
Project Name: Meeker Ave Plumes Superfund Site RI FS
Project # N/A
Chemtech Project # P4921
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
1 Water sample was received on 11/19/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Flash Point, PCB, pH, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike for {PB165144BS} with File ID: BF140659.D met requirements for all samples except for Pyridine[99%] . But associated samples have not positive hit for this compound therefore no corrective action was taken.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial

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Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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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 #: **P4921**

	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: **PRADIP PRAJAPATI** **Date:** **11/29/2024**

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LAB CHRONICLE

OrderID:	P4921	**OrderDate:**	11/19/2024 12:44:00 PM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	L61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4921-01	**WC-11-A-202411**	**TCLP**			**11/19/24**			**11/19/24**
			TCLP BNA	8270E		11/20/24	11/21/24	

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Hit Summary Sheet
SW-846

SDG No.: P4921

Client: AECOM

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4892-03MS	WB-310-BOTMS	2-Fluorophenol	150	132	88		10	139
		Phenol-d6	150	120	80		10	134
		Nitrobenzene-d5	100	99.5	100		49	133
		2-Fluorobiphenyl	100	96.8	97		52	132
		2,4,6-Tribromophenol	150	159	106		44	137
		Terphenyl-d14	100	104	104		48	125
P4892-03MSD	WB-310-BOTMSD	2-Fluorophenol	150	122	81		10	139
		Phenol-d6	150	111	74		10	134
		Nitrobenzene-d5	100	90.2	90		49	133
		2-Fluorobiphenyl	100	89.0	89		52	132
		2,4,6-Tribromophenol	150	144	96		44	137
		Terphenyl-d14	100	98.2	98		48	125
P4921-01	WC-11-A-202411	2-Fluorophenol	150	128	86		10	139
		Phenol-d6	150	117	78		10	134
		Nitrobenzene-d5	100	97.8	98		49	133
		2-Fluorobiphenyl	100	98.5	98		52	132
		2,4,6-Tribromophenol	150	136	91		44	137
		Terphenyl-d14	100	97.1	97		48	125
PB165123TB	PB165123TB	2-Fluorophenol	150	149	99		10	139
		Phenol-d6	150	145	97		10	134
		Nitrobenzene-d5	100	96.9	97		49	133
		2-Fluorobiphenyl	100	97.3	97		52	132
		2,4,6-Tribromophenol	150	143	96		44	137
		Terphenyl-d14	100	104	104		48	125
PB165144BL	PB165144BL	2-Fluorophenol	150	139	93		10	139
		Phenol-d6	150	135	90		10	134
		Nitrobenzene-d5	100	95.9	96		49	133
		2-Fluorobiphenyl	100	95.1	95		52	132
		2,4,6-Tribromophenol	150	133	89		44	137
		Terphenyl-d14	100	98.5	98		48	125
PB165144BS	PB165144BS	2-Fluorophenol	150	137	92		10	139
		Phenol-d6	150	135	90		10	134
		Nitrobenzene-d5	100	92.9	93		49	133
		2-Fluorobiphenyl	100	91.7	92		52	132
		2,4,6-Tribromophenol	150	140	93		44	137
		Terphenyl-d14	100	91.8	92		48	125

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4892-03MS		**Client Sample ID: WB-310-BOTMS**						**DataFile: BF140613.D**			
Pyridine	500	0	400	ug/L	80				10	109	
1,4-Dichlorobenzene	500	0	320	ug/L	64				55	125	
2-Methylphenol	500	0	470	ug/L	94				37	126	
3+4-Methylphenols	500	0	470	ug/L	94				31	127	
Hexachloroethane	500	0	300	ug/L	60				49	110	
Nitrobenzene	500	0	440	ug/L	88				62	112	
Hexachlorobutadiene	500	0	380	ug/L	76				52	125	
2,4,6-Trichlorophenol	500	0	520	ug/L	104				78	112	
2,4,5-Trichlorophenol	500	0	520	ug/L	104				71	111	
2,4-Dinitrotoluene	500	0	540	ug/L	108				50	142	
Hexachlorobenzene	500	0	510	ug/L	102				72	115	
Pentachlorophenol	1000	0	1200	ug/L	120				25	139	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4892-03MSD		**Client Sample ID: WB-310-BOTMSD**						**DataFile: BF140614.D**			
Pyridine	500	0	370	ug/L	74		8		10	109	20
1,4-Dichlorobenzene	500	0	290	ug/L	58		10		55	125	20
2-Methylphenol	500	0	430	ug/L	86		9		37	126	20
3+4-Methylphenols	500	0	440	ug/L	88		7		31	127	20
Hexachloroethane	500	0	280	ug/L	56		7		49	110	20
Nitrobenzene	500	0	400	ug/L	80		10		62	112	20
Hexachlorobutadiene	500	0	350	ug/L	70		8		52	125	20
2,4,6-Trichlorophenol	500	0	480	ug/L	96		8		78	112	20
2,4,5-Trichlorophenol	500	0	480	ug/L	96		8		71	111	20
2,4-Dinitrotoluene	500	0	500	ug/L	100		8		50	142	20
Hexachlorobenzene	500	0	460	ug/L	92		10		72	115	20
Pentachlorophenol	1000	0	1100	ug/L	110		9		25	139	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: 8270E **DataFile:** BF140659.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165144BS	Pyridine	50	49.6	ug/L	99		*		29	97	
	1,4-Dichlorobenzene	50	46.6	ug/L	93				76	103	
	2-Methylphenol	50	49.8	ug/L	100				69	109	
	3+4-Methylphenols	50	49.2	ug/L	98				67	106	
	Hexachloroethane	50	46.8	ug/L	94				76	118	
	Nitrobenzene	50	45.8	ug/L	92				58	106	
	Hexachlorobutadiene	50	46.0	ug/L	92				69	101	
	2,4,6-Trichlorophenol	50	48.2	ug/L	96				61	110	
	2,4,5-Trichlorophenol	50	46.6	ug/L	93				70	106	
	2,4-Dinitrotoluene	50	49.1	ug/L	98				60	115	
	Hexachlorobenzene	50	47.1	ug/L	94				73	106	
	Pentachlorophenol	100	97.1	ug/L	97				47	114	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165144BL

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Lab File ID: BF140537.D Lab Sample ID: PB165144BL

Instrument ID: BNA_F Date Extracted: 11/20/2024

Matrix: (soil/water) water Date Analyzed: 11/21/2024

Level: (low/med) LOW Time Analyzed: 15:34

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165123TB	PB165123TB	BF140591.D	11/25/2024
WB-310-BOTMS	P4892-03MS	BF140613.D	11/25/2024
WB-310-BOTMSD	P4892-03MSD	BF140614.D	11/25/2024
PB165144BS	PB165144BS	BF140659.D	11/27/2024
WC-11-A-202411	P4921-01	BF140549.D	11/21/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4921 SDG NO.: P4921

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
PB165144BL	PB165144BL	BF140537.D	11/21/2024	15:34

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4921 SDG NO.: P4921

Lab File ID: BF140538.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 16:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.7
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.4
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	6.3
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	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
SSTDCCC040	SSTDCCC040	BF140539.D	11/21/2024	16:54
WC-11-A-202411	P4921-01	BF140549.D	11/21/2024	21:25

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4921 SDG NO.: P4921

Lab File ID: BF140589.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	98.2
443	15.0 - 24.0% of mass 442	18.5 (18.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140590.D	11/25/2024	09:33
PB165123TB	PB165123TB	BF140591.D	11/25/2024	09:59

Raw Data: **BF140603.D**

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4921 SDG NO.: P4921

Lab File ID: BF140603.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140604.D	11/25/2024	15:49
WB-310-BOTMS	P4892-03MS	BF140613.D	11/25/2024	19:52
WB-310-BOTMSD	P4892-03MSD	BF140614.D	11/25/2024	20:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4921 SDG NO.: P4921

Lab File ID: BF140654.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.4
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	29
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	15
442	Greater than 50% of mass 198	96.2
443	15.0 - 24.0% of mass 442	17.7 (18.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140655.D	11/27/2024	08:47
PB165144BS	PB165144BS	BF140659.D	11/27/2024	10:30

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140532.D Time Analyzed: 12:58

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	107516	6.875	413408	8.16	234407	9.92
	UPPER LIMIT	215032	7.375	826816	8.657	468814	10.416
	LOWER LIMIT	53758	6.375	206704	7.657	117204	9.416
	EPA SAMPLE NO.						
01	PB165144BL	89214	6.87	332852	8.15	187896	9.91

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140532.D Time Analyzed: 12:58

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	437466	11.404	239343	14.051	211422	15.539
	UPPER LIMIT	874932	11.904	478686	14.551	422844	16.039
	LOWER LIMIT	218733	10.904	119672	13.551	105711	15.039
	EPA SAMPLE NO.						
01	PB165144BL	359986	11.40	208110	14.05	161923	15.54

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.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140539.D Time Analyzed: 16:54

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	106707	6.875	411509	8.16	234805	9.91
	UPPER LIMIT	213414	7.375	823018	8.657	469610	10.41
	LOWER LIMIT	53353.5	6.375	205755	7.657	117403	9.41
	EPA SAMPLE NO.						
01	WC-11-A-202411	79300	6.87	290595	8.15	151253	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.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/21/2024

Lab File ID: BF140539.D Time Analyzed: 16:54

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	433198	11.404	229401	14.051	204401	15.539
	UPPER LIMIT	866396	11.904	458802	14.551	408802	16.039
	LOWER LIMIT	216599	10.904	114701	13.551	102201	15.039
	EPA SAMPLE NO.						
01	WC-11-A-202411	263635	11.40	156535	14.05	121189	15.53

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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	105131	6.869	390145	8.15	212616	9.91
	UPPER LIMIT	210262	7.369	780290	8.651	425232	10.41
	LOWER LIMIT	52565.5	6.369	195073	7.651	106308	9.41
	EPA SAMPLE NO.						
01	PB165123TB	93544	6.87	358144	8.15	202721	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.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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	399326	11.398	244297	14.051	211888	15.545
	UPPER LIMIT	798652	11.898	488594	14.551	423776	16.045
	LOWER LIMIT	199663	10.898	122149	13.551	105944	15.045
	EPA SAMPLE NO.						
01	PB165123TB	380338	11.40	213022	14.05	179936	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	106607	6.869	393427	8.15	218835	9.91
	UPPER LIMIT	213214	7.369	786854	8.651	437670	10.41
	LOWER LIMIT	53303.5	6.369	196714	7.651	109418	9.41
	EPA SAMPLE NO.						
01	WB-310-BOTMS	62131	6.87	221607	8.15	122175	9.91
02	WB-310-BOTMSD	68388	6.87	250576	8.15	136071	9.91

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	396344	11.398	217927	14.051	192376	15.551
	UPPER LIMIT	792688	11.898	435854	14.551	384752	16.051
	LOWER LIMIT	198172	10.898	108964	13.551	96188	15.051
	EPA SAMPLE NO.						
01	WB-310-BOTMS	233749	11.40	142609	14.05	139916	15.54
02	WB-310-BOTMSD	265977	11.40	158457	14.05	154128	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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/27/2024

Lab File ID: BF140655.D Time Analyzed: 08:47

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	98372	6.869	362566	8.15	198240	9.91
	UPPER LIMIT	196744	7.369	725132	8.651	396480	10.41
	LOWER LIMIT	49186	6.369	181283	7.651	99120	9.41
	EPA SAMPLE NO.						
01	PB165144BS	82046	6.87	308441	8.15	177190	9.91

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/27/2024

Lab File ID: BF140655.D Time Analyzed: 08:47

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	372253	11.398	233810	14.051	185431	15.545
	UPPER LIMIT	744506	11.898	467620	14.551	370862	16.045
	LOWER LIMIT	186127	10.898	116905	13.551	92715.5	15.045
	EPA SAMPLE NO.						
01	PB165144BS	338038	11.40	213188	14.05	167110	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: **BF140549.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	11/19/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/19/24
Client Sample ID:	WC-11-A-202411	SDG No.:	P4921
Lab Sample ID:	P4921-01	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140549.D	1	11/20/24 11:30	11/21/24 21:25	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	UQ	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		10 - 139	86%	SPK: 150
13127-88-3	Phenol-d6	117		10 - 134	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.8		49 - 133	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.5		52 - 132	98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		44 - 137	91%	SPK: 150
1718-51-0	Terphenyl-d14	97.1		48 - 125	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	79300	6.869			
1146-65-2	Naphthalene-d8	291000	8.151			
15067-26-2	Acenaphthene-d10	151000	9.904			
1517-22-2	Phenanthrene-d10	264000	11.398			
1719-03-5	Chrysene-d12	157000	14.045			
1520-96-3	Perylene-d12	121000	15.533			

Raw Data: **BF140549.D**

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

Report of Analysis

Client:	AECOM			Date Collected:	11/19/24
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	11/19/24
Client Sample ID:	WC-11-A-202411			SDG No.:	P4921
Lab Sample ID:	P4921-01			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140549.D	1	11/20/24 11:30	11/21/24 21:25	PB165144

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: **BF140549.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140549.D
Acq On : 21 Nov 2024 21:25
Operator : RC/JU
Sample : P4921-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Quant Time: Nov 22 00:11:26 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 15:23:48 2024
Response via : Initial Calibration

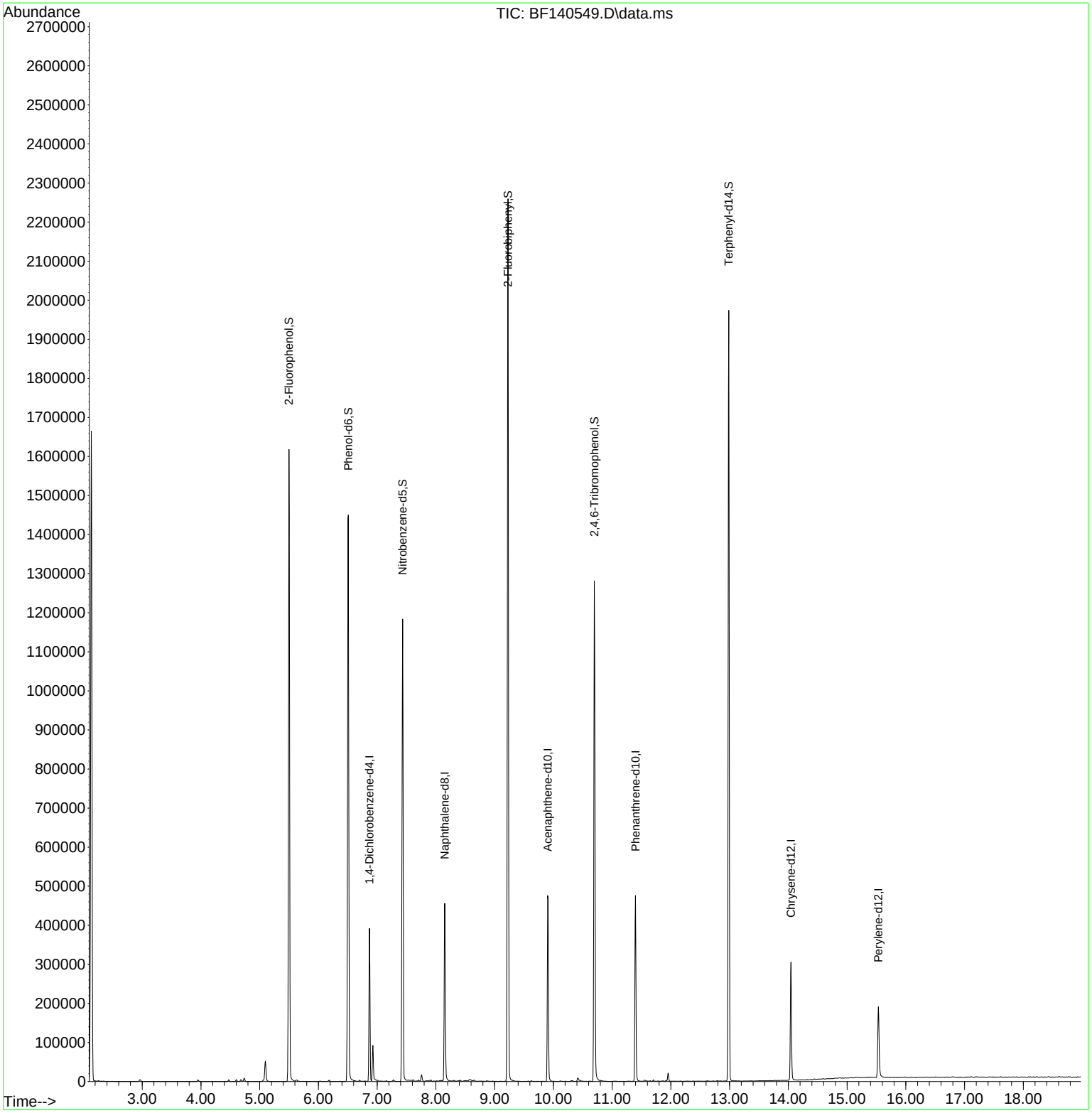
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	79300	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	290595	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	151253	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	263635	20.000	ng	0.00
76) Chrysene-d12	14.045	240	156535	20.000	ng	0.00
86) Perylene-d12	15.533	264	121189	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	596078	128.251	ng	0.00
7) Phenol-d6	6.510	99	716498	116.610	ng	0.00
23) Nitrobenzene-d5	7.434	82	555396	97.760	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	220111	136.067	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	999620	98.469	ng	0.00
79) Terphenyl-d14	12.986	244	976370	97.124	ng	0.00
Target Compounds						Qvalue

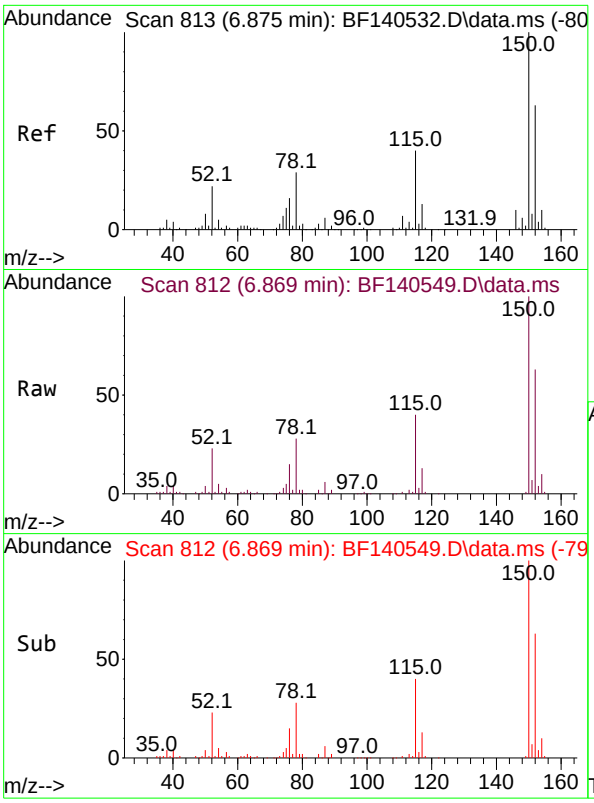
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140549.D
Acq On : 21 Nov 2024 21:25
Operator : RC/JU
Sample : P4921-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Quant Time: Nov 22 00:11:26 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 15:23:48 2024
Response via : Initial Calibration



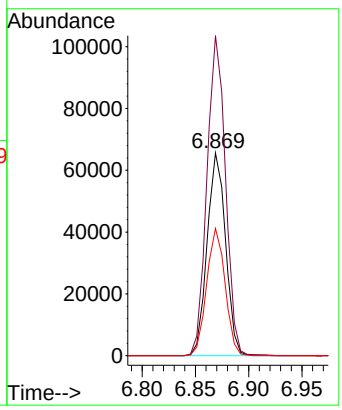


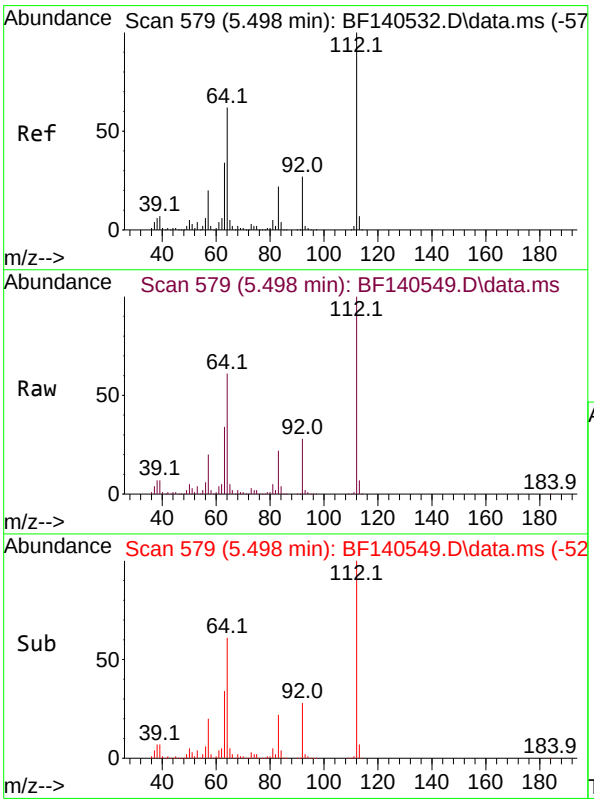
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Tgt Ion:152 Resp: 79300

Ion	Ratio	Lower	Upper
152	100		
150	157.9	128.5	192.7
115	62.8	50.2	75.4

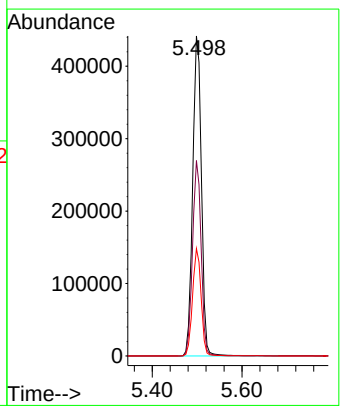


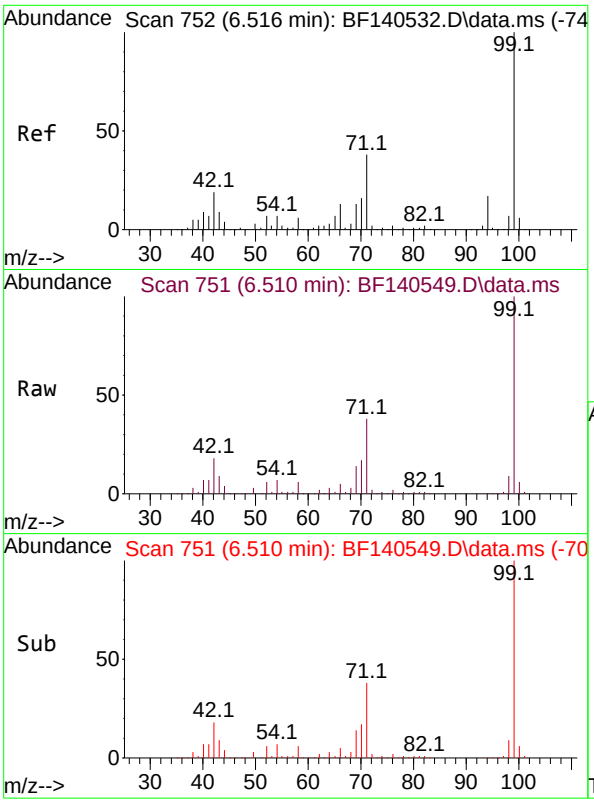


#5
2-Fluorophenol
Concen: 128.251 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Tgt Ion:112 Resp: 596078

Ion	Ratio	Lower	Upper
112	100		
64	61.0	49.2	73.8
63	33.5	27.0	40.4



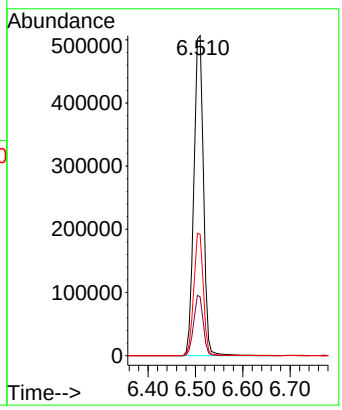


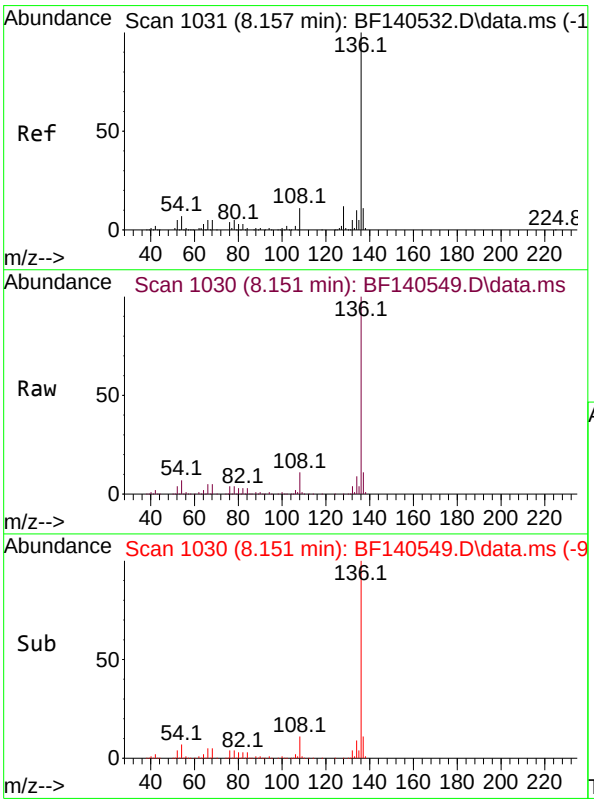
#7
Phenol-d6
Concen: 116.610 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Tgt Ion: 99 Resp: 716498

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.4	23.0
71	38.0	30.6	46.0

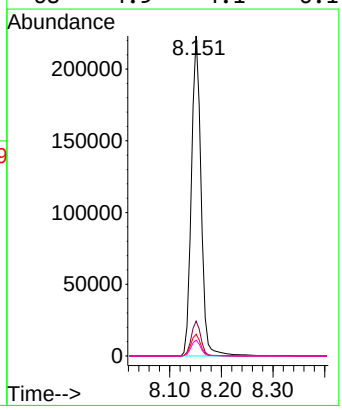


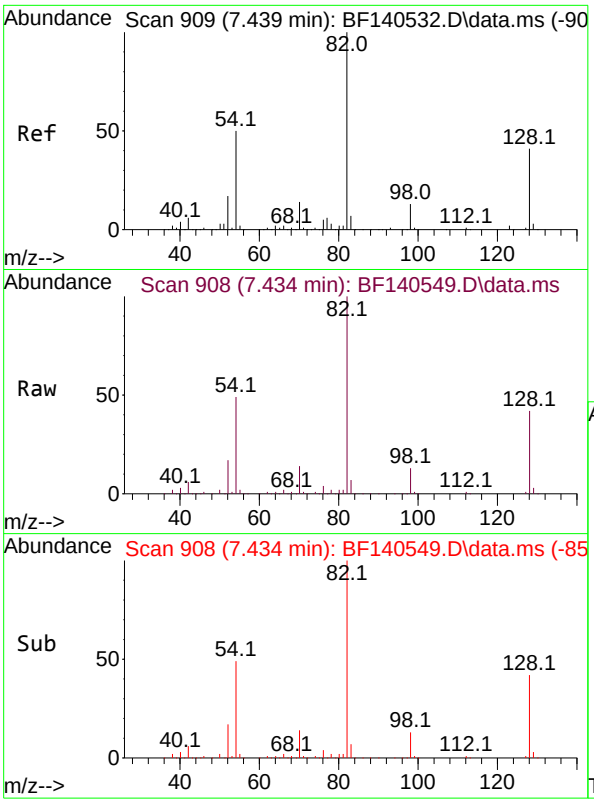


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Tgt Ion:136 Resp: 290595

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	6.8	5.8	8.8
68	4.9	4.1	6.1



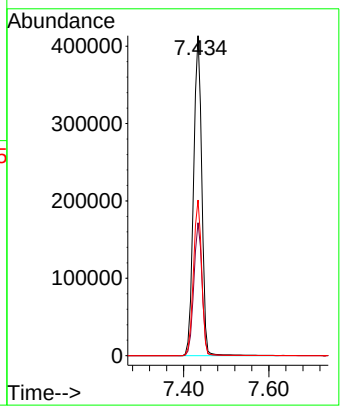


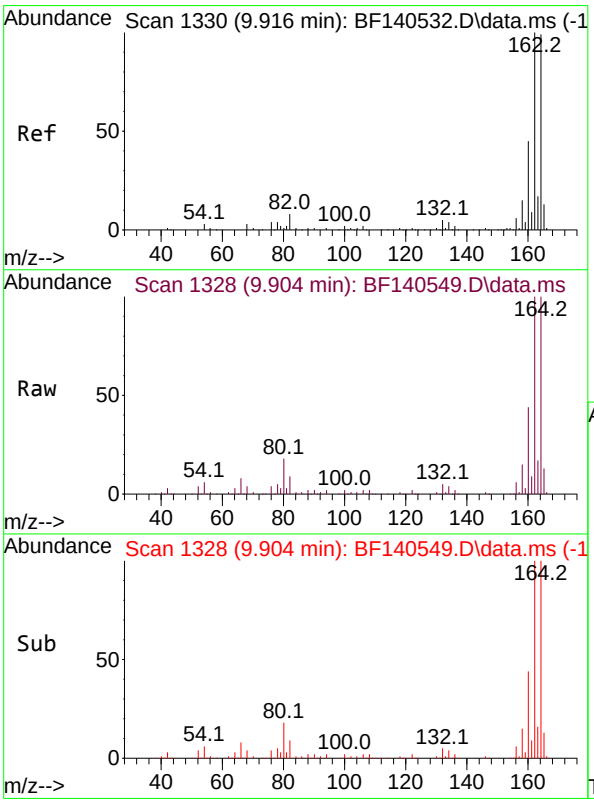
#23
Nitrobenzene-d5
Concen: 97.760 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Tgt Ion: 82 Resp: 555396

Ion	Ratio	Lower	Upper
82	100		
128	41.5	33.0	49.4
54	48.7	39.5	59.3

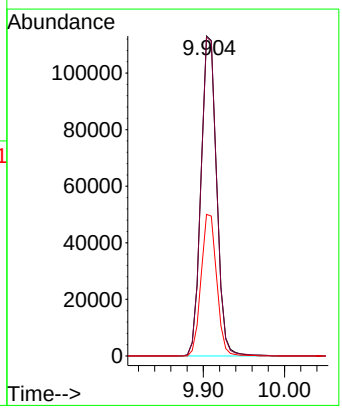


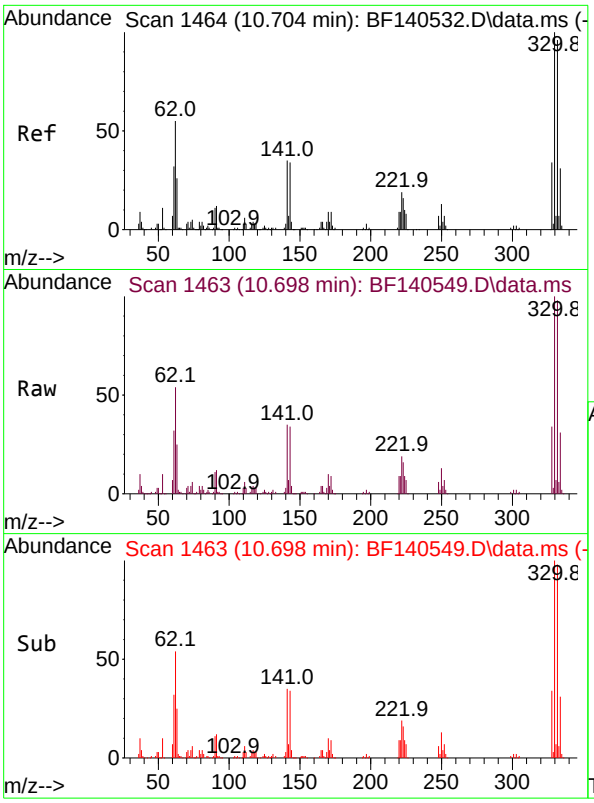


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Tgt Ion:164 Resp: 151253

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.6	120.8
160	44.3	36.2	54.4



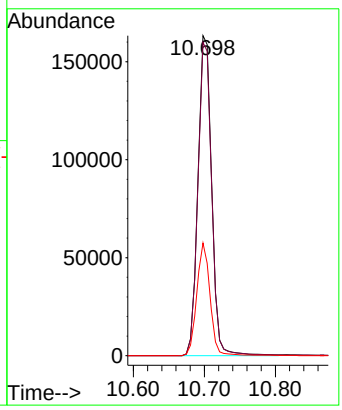


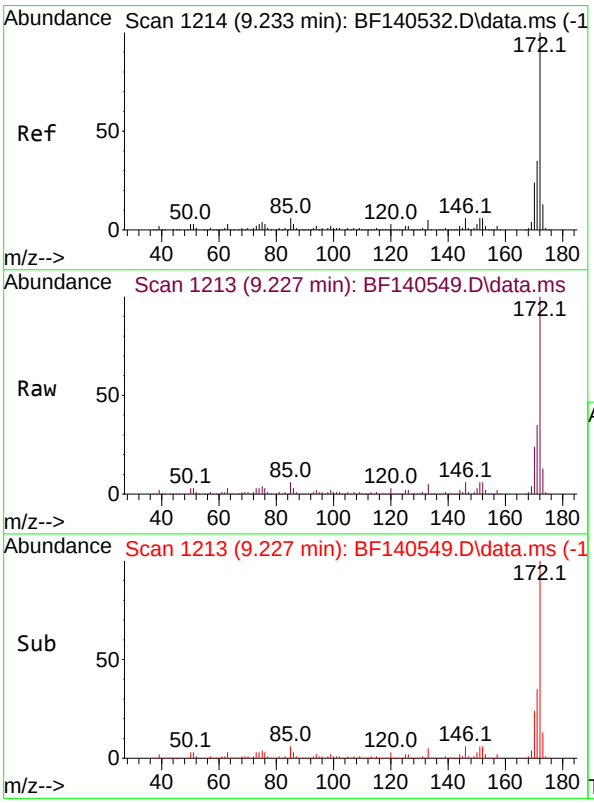
#42
2,4,6-Tribromophenol
Concen: 136.067 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Tgt Ion:330 Resp: 220111

Ion	Ratio	Lower	Upper
330	100		
332	98.1	76.9	115.3
141	34.1	26.7	40.1

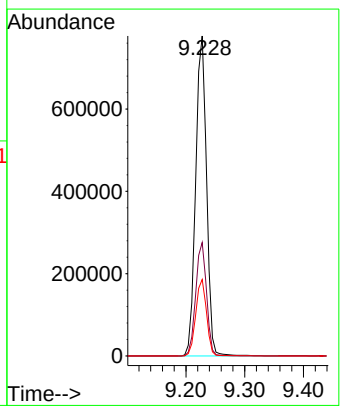


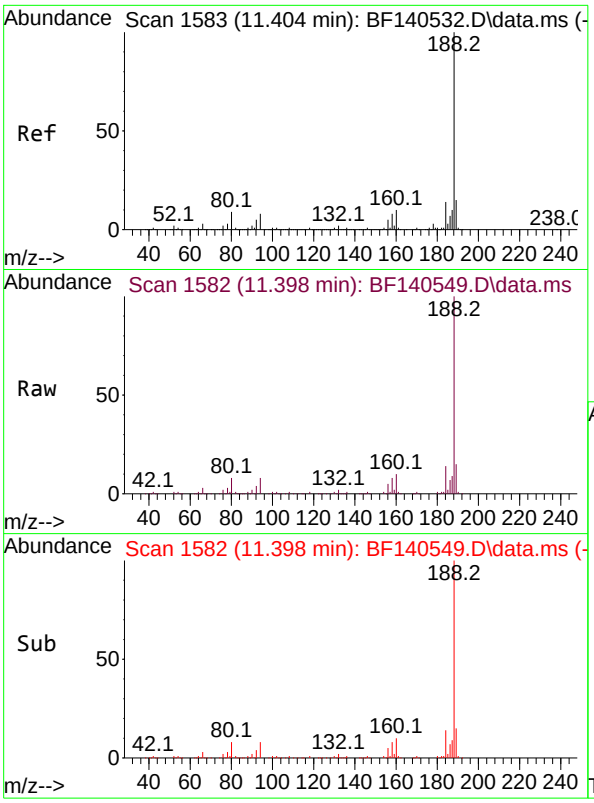


#45
2-Fluorobiphenyl
Concen: 98.469 ng
RT: 9.227 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Tgt Ion:172 Resp: 999620

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.4	42.6
170	23.9	19.0	28.6



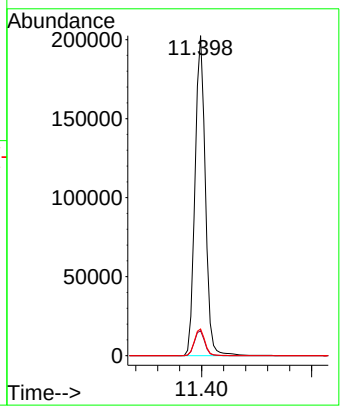


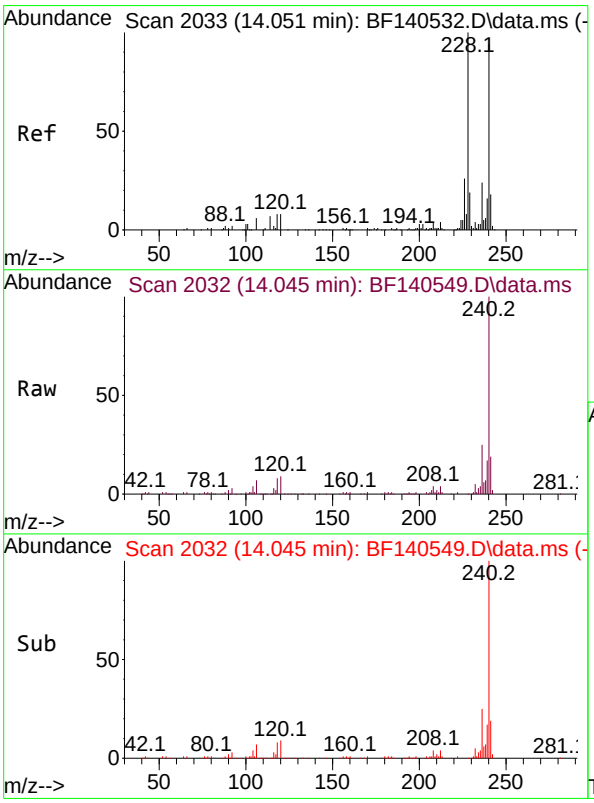
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Tgt Ion:188 Resp: 263635

Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.4	9.6
80	8.4	6.9	10.3

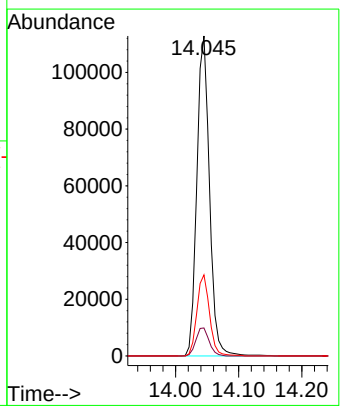


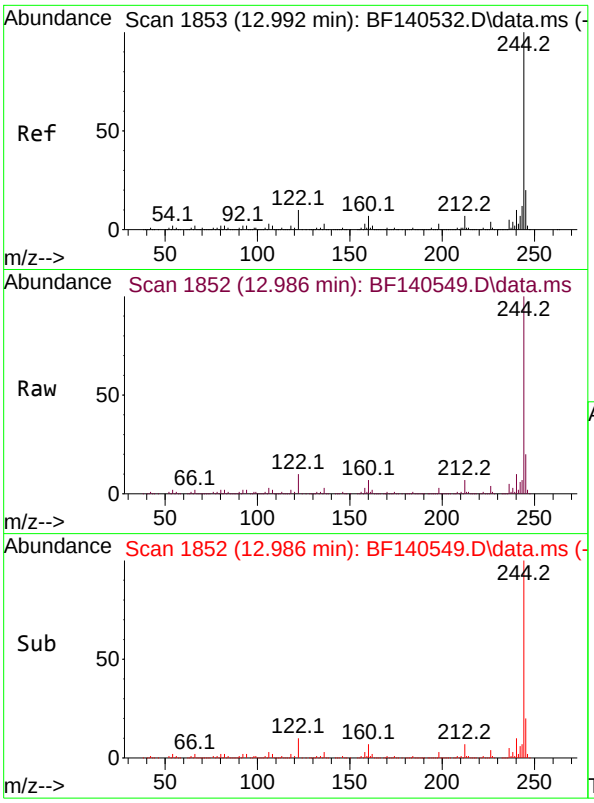


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Tgt Ion:240 Resp: 156535

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.3	10.9
236	25.3	20.6	31.0



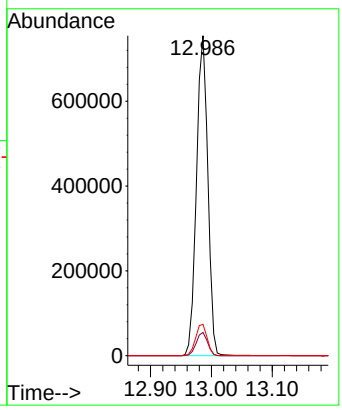


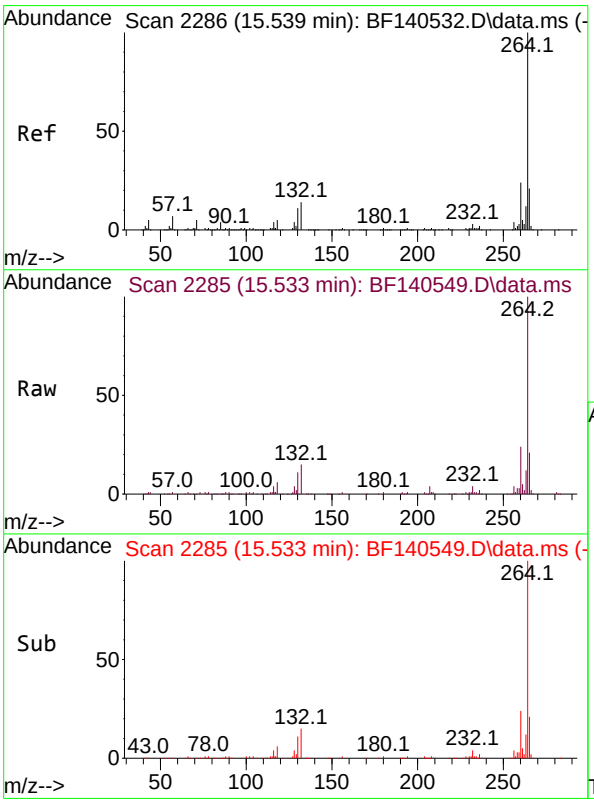
#79
Terphenyl-d14
Concen: 97.124 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Instrument :
BNA_F
ClientSampleId :
WC-11-A-202411

Tgt Ion:244 Resp: 976370

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	9.8	8.0	12.0

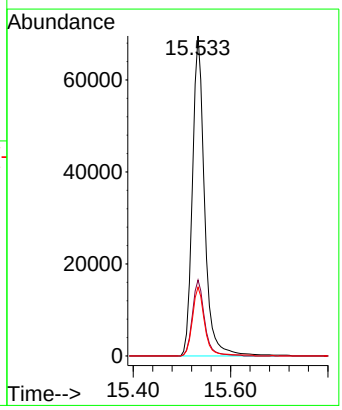




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF140549.D
Acq: 21 Nov 2024 21:25

Tgt Ion:264 Resp: 121189

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	21.5	16.6	25.0



Raw Data: **BF140591.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	11/20/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/20/24
Client Sample ID:	PB165123TB	SDG No.:	P4921
Lab Sample ID:	PB165123TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140591.D	1	11/20/24 11:30	11/25/24 09:59	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	UQ	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	149		10 - 139	99%	SPK: 150
13127-88-3	Phenol-d6	145		10 - 134	97%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		49 - 133	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.3		52 - 132	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		44 - 137	96%	SPK: 150
1718-51-0	Terphenyl-d14	104		48 - 125	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	93500	6.869			
1146-65-2	Naphthalene-d8	358000	8.151			
15067-26-2	Acenaphthene-d10	203000	9.904			
1517-22-2	Phenanthrene-d10	380000	11.398			
1719-03-5	Chrysene-d12	213000	14.045			
1520-96-3	Perylene-d12	180000	15.551			

Raw Data: **BF140591.D**

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

Report of Analysis

Client:	AECOM			Date Collected:	11/20/24
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	11/20/24
Client Sample ID:	PB165123TB			SDG No.:	P4921
Lab Sample ID:	PB165123TB			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140591.D	1	11/20/24 11:30	11/25/24 09:59	PB165144

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\BF112524\
Data File : BF140591.D
Acq On : 25 Nov 2024 09:59
Operator : RC/JU
Sample : PB165123TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Quant Time: Nov 25 10:35:22 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

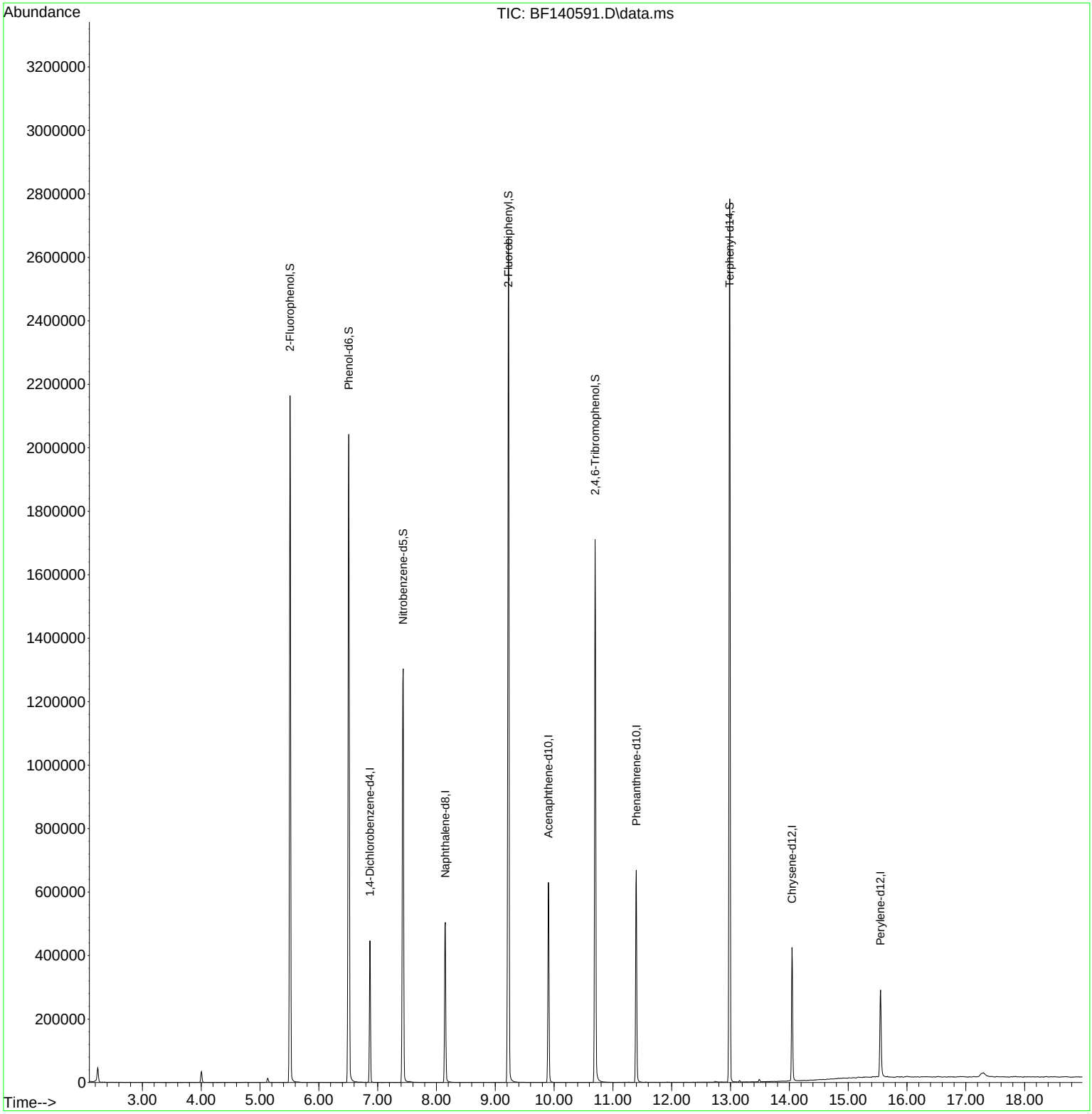
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	93544	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	358144	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	202721	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	380338	20.000	ng	0.00
76) Chrysene-d12	14.045	240	213022	20.000	ng	0.00
86) Perylene-d12	15.551	264	179936	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	817742	149.153	ng	0.01
7) Phenol-d6	6.510	99	1049336	144.775	ng	0.00
23) Nitrobenzene-d5	7.433	82	678473	96.900	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	310978	143.432	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	1323675	97.286	ng	-0.01
79) Terphenyl-d14	12.986	244	1424626	104.136	ng	0.00
Target Compounds						Qvalue

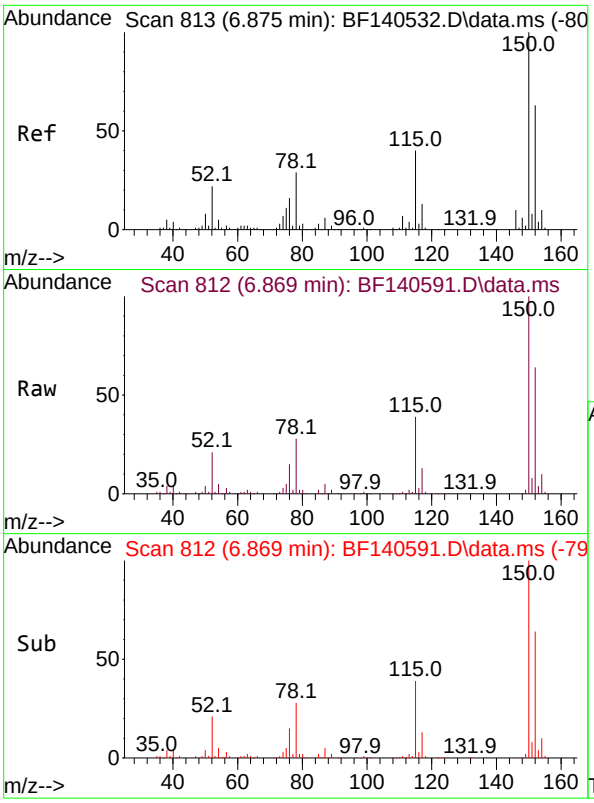
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140591.D
Acq On : 25 Nov 2024 09:59
Operator : RC/JU
Sample : PB165123TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Quant Time: Nov 25 10:35:22 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



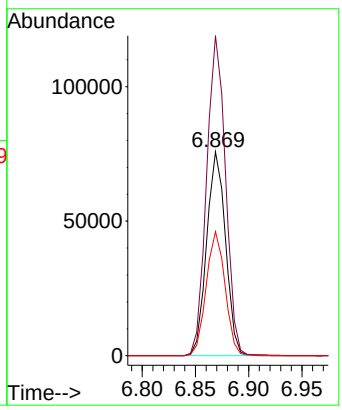


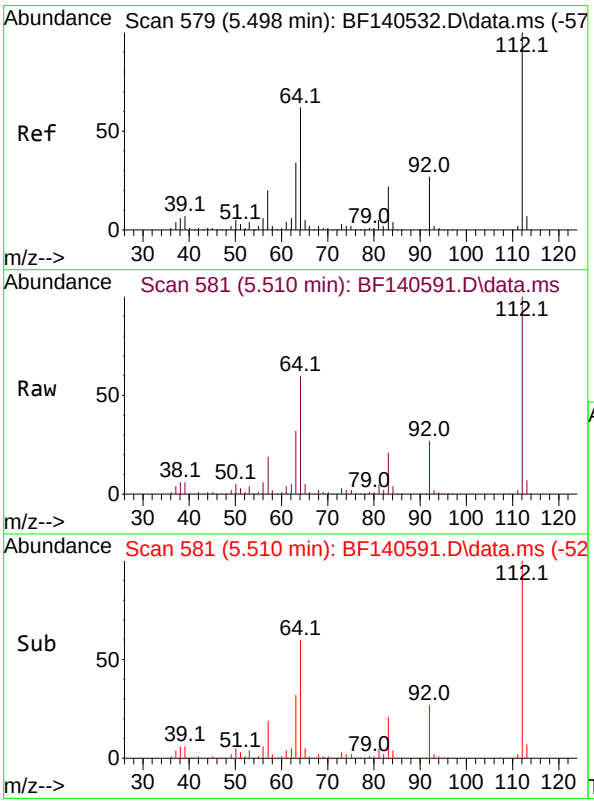
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Tgt Ion:152 Resp: 93544

Ion	Ratio	Lower	Upper
152	100		
150	157.0	128.5	192.7
115	60.9	50.2	75.4

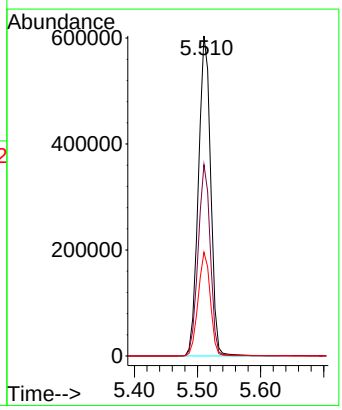


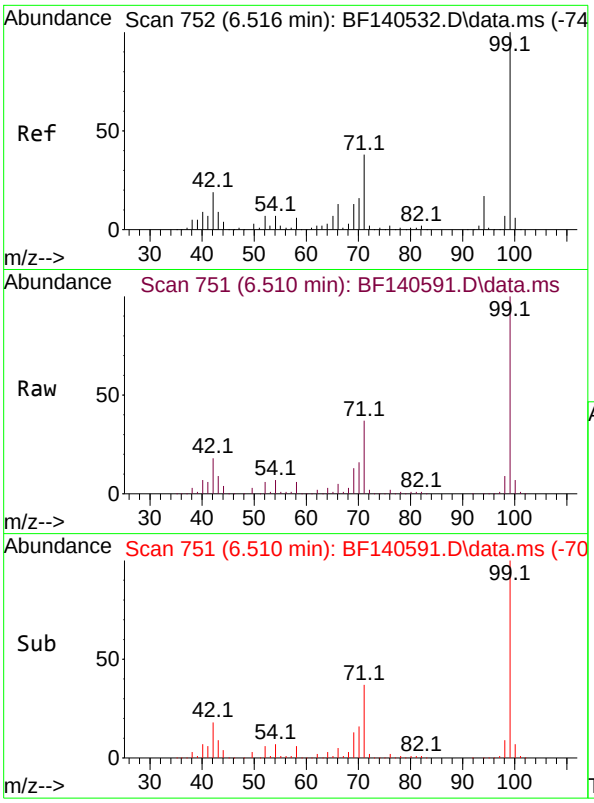


#5
2-Fluorophenol
Concen: 149.153 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Tgt Ion:112 Resp: 817742

Ion	Ratio	Lower	Upper
112	100		
64	59.8	49.2	73.8
63	32.4	27.0	40.4



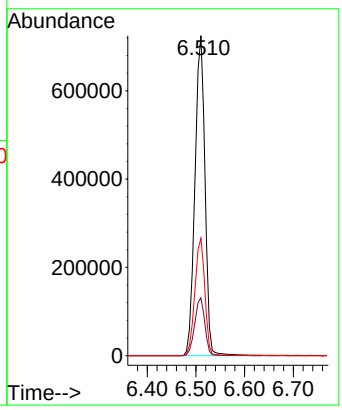


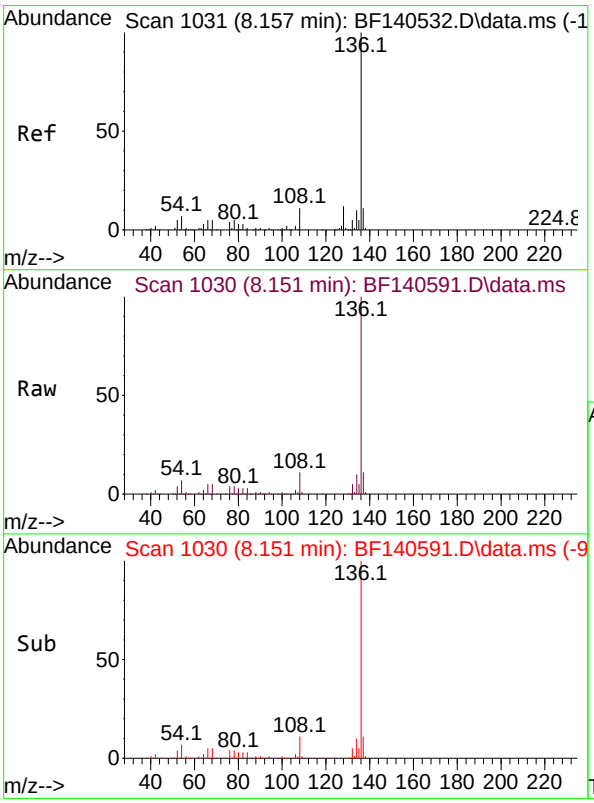
#7
Phenol-d6
Concen: 144.775 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Tgt Ion: 99 Resp: 1049336

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.4	23.0
71	36.7	30.6	46.0

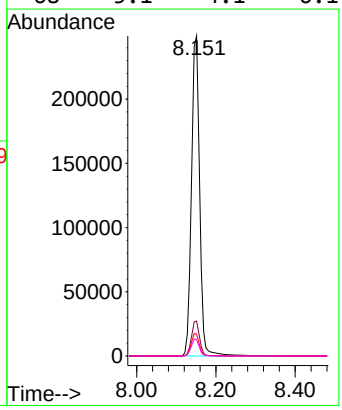


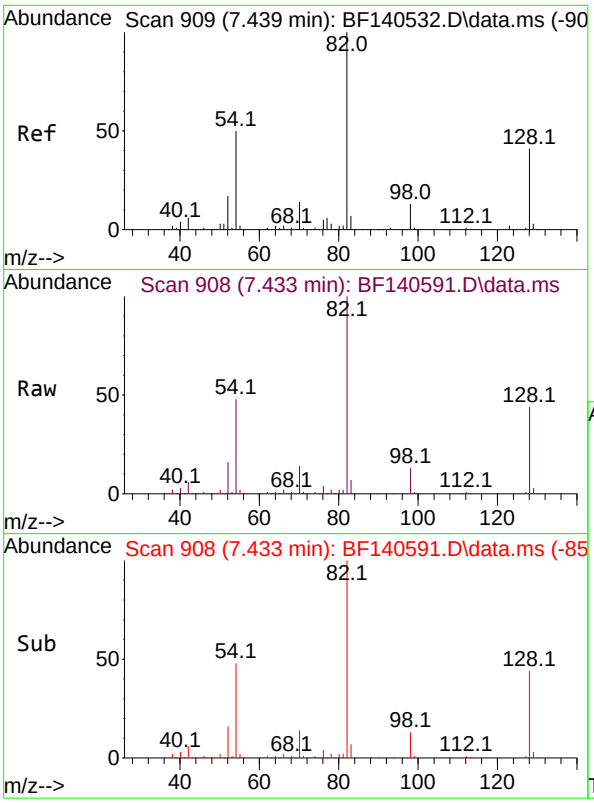


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Tgt Ion:136 Resp: 358144

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	6.9	5.8	8.8
68	5.1	4.1	6.1



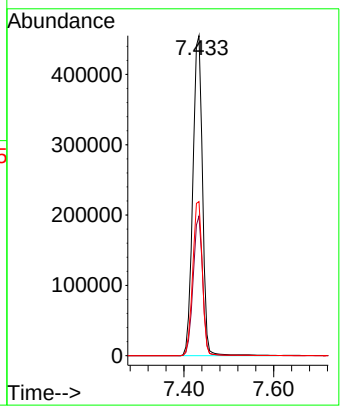


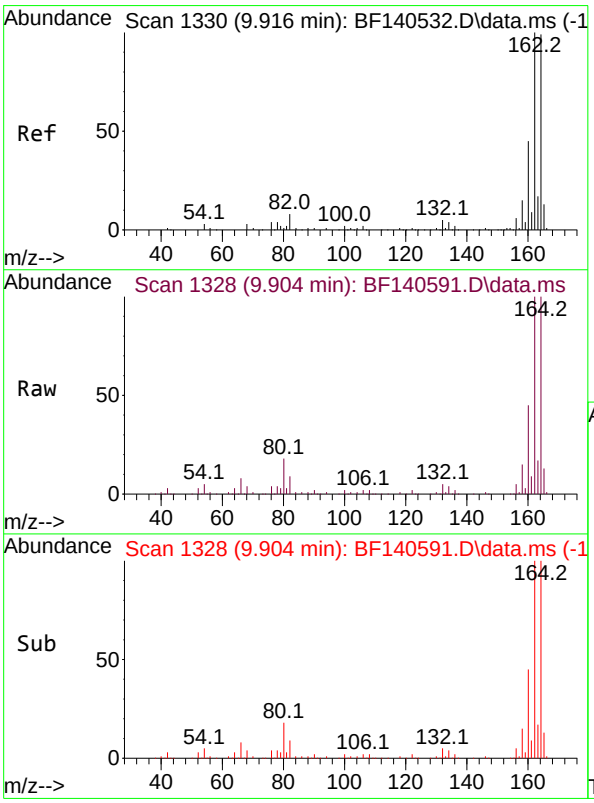
#23
Nitrobenzene-d5
Concen: 96.900 ng
RT: 7.433 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Tgt Ion: 82 Resp: 678473

Ion	Ratio	Lower	Upper
82	100		
128	43.6	33.0	49.4
54	48.1	39.5	59.3

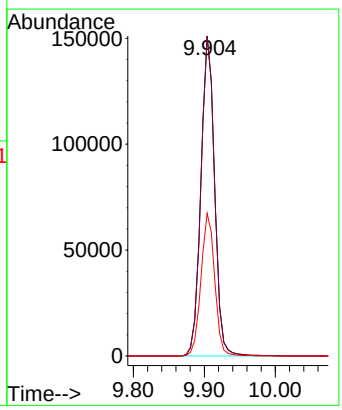


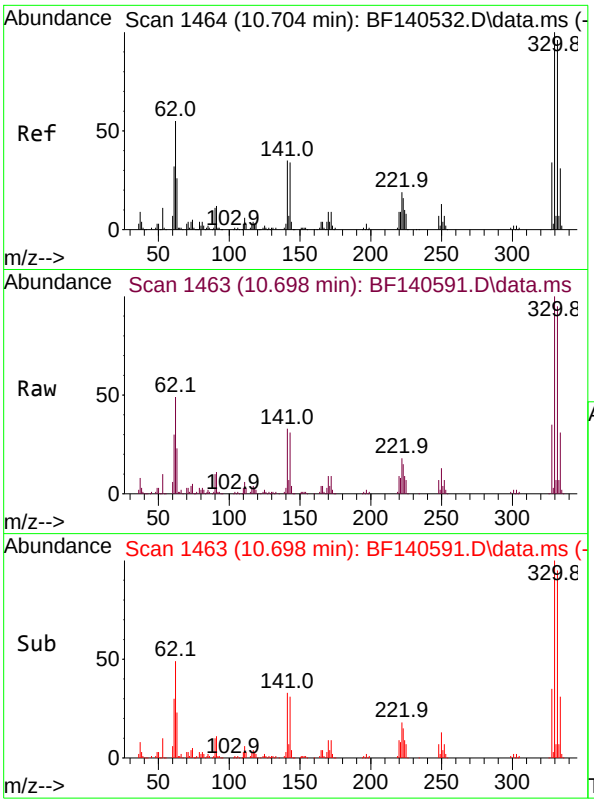


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Tgt Ion:164 Resp: 202721

Ion	Ratio	Lower	Upper
164	100		
162	99.9	80.6	120.8
160	44.6	36.2	54.4



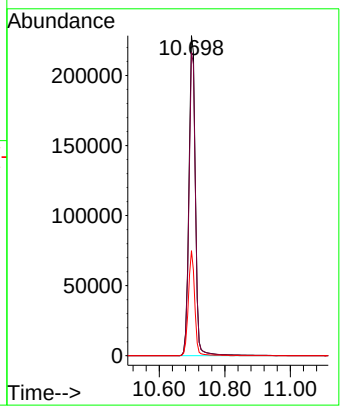


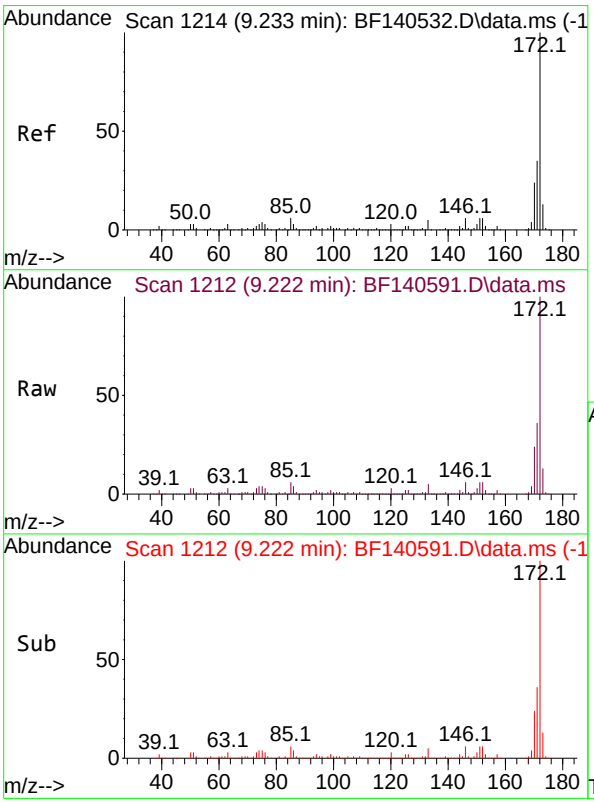
#42
2,4,6-Tribromophenol
Concen: 143.432 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Tgt Ion:330 Resp: 310978

Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.9	115.3
141	32.1	26.7	40.1

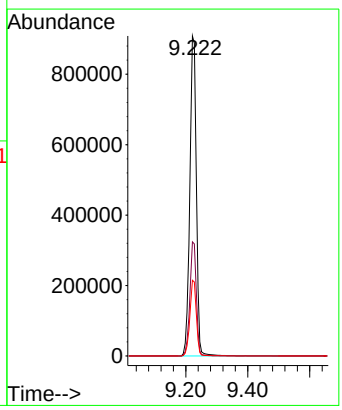


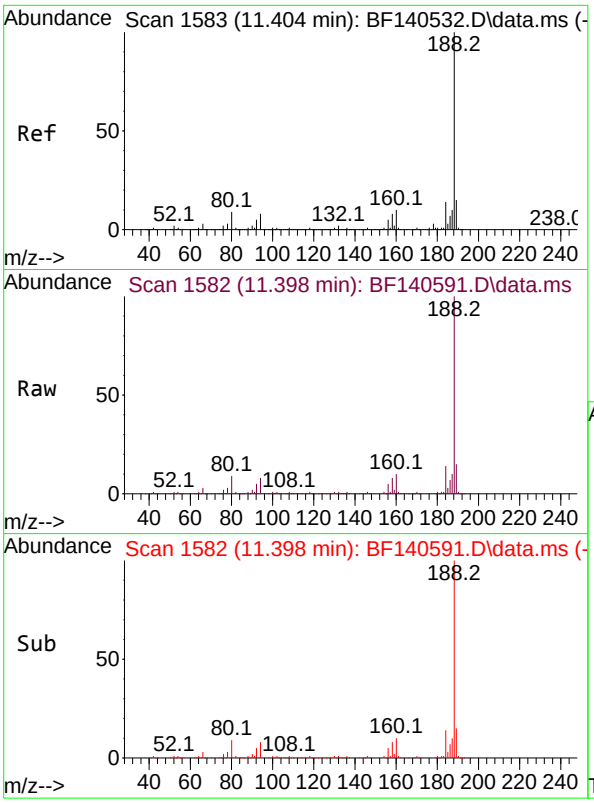


#45
2-Fluorobiphenyl
Concen: 97.286 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Tgt Ion:172 Resp: 1323675

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.4	42.6
170	23.6	19.0	28.6



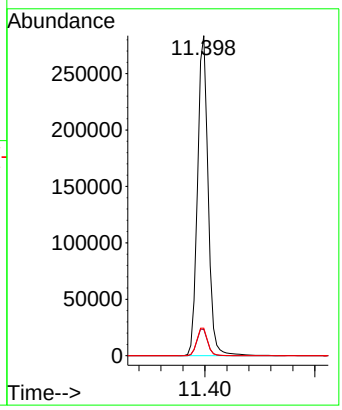


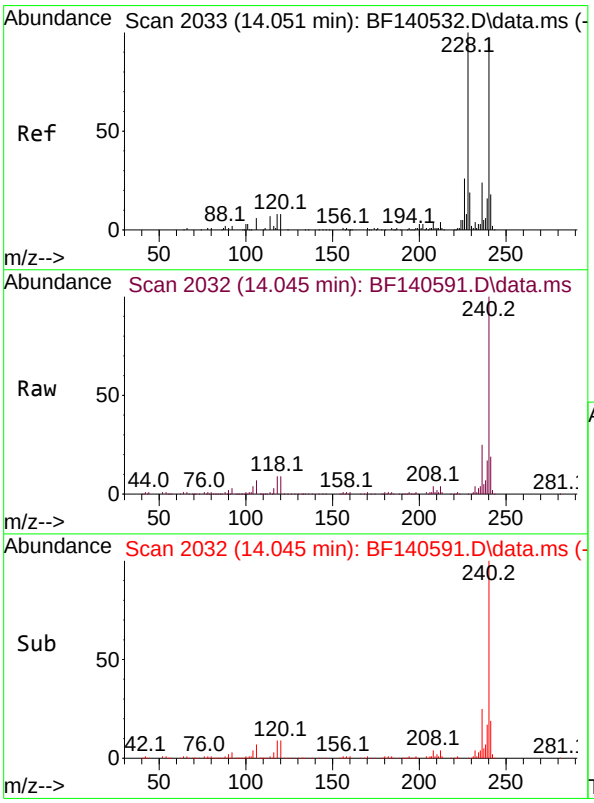
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Tgt Ion:188 Resp: 380338

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.4	9.6
80	8.6	6.9	10.3

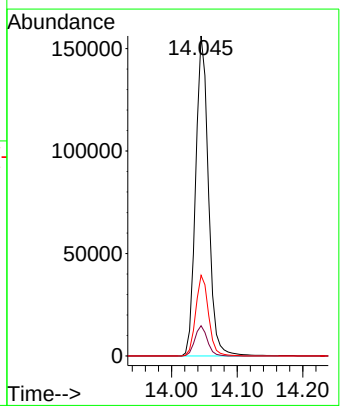


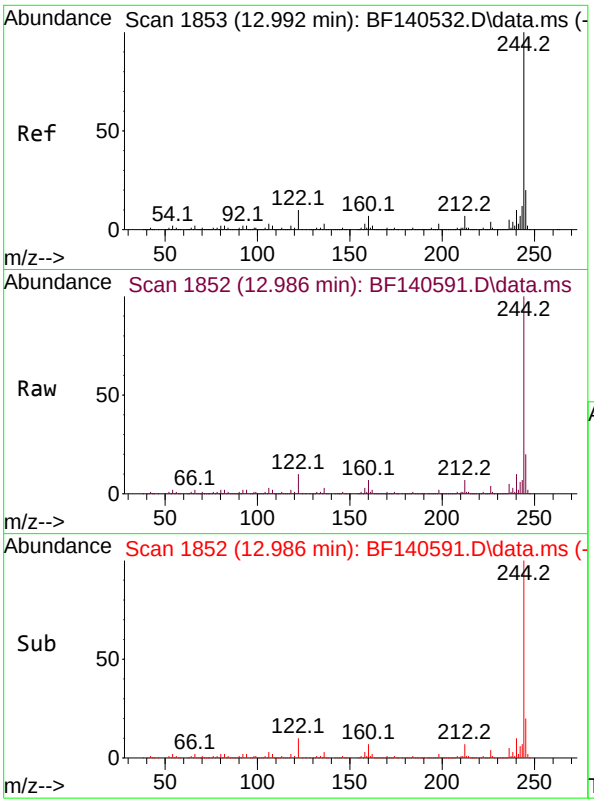


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Tgt Ion:240 Resp: 213022

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.3	10.9
236	25.2	20.6	31.0



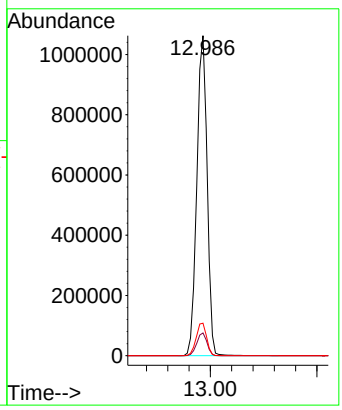


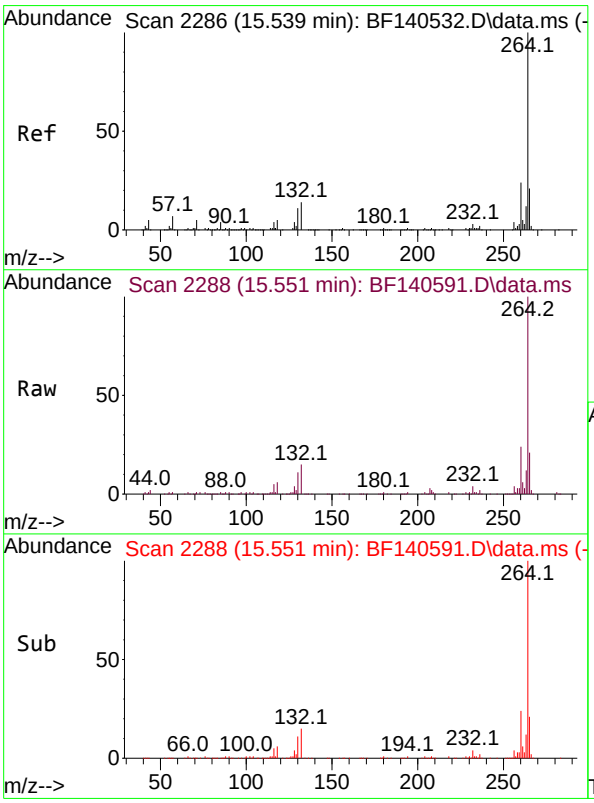
#79
Terphenyl-d14
Concen: 104.136 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Instrument :
BNA_F
ClientSampleId :
PB165123TB

Tgt Ion:244 Resp: 1424626

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	10.1	8.0	12.0

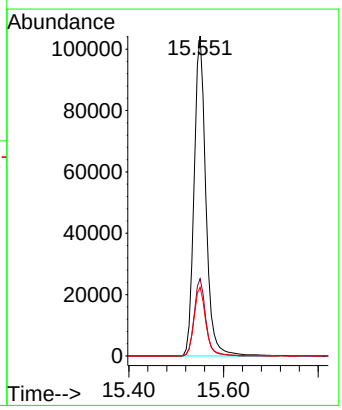




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. 0.012 min
Lab File: BF140591.D
Acq: 25 Nov 2024 09:59

Tgt Ion:264 Resp: 179936

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.0	28.6
265	21.5	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: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG No.: P4921

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
Pyridine		0.981	1.019	1.121	1.192	1.062	1.084	6.5
2-Fluorophenol		1.261	1.233	1.202	1.174	1.117	1.172	5.4
Phenol-d6		1.729	1.617	1.559	1.602	1.465	1.550	7.1
1,4-Dichlorobenzene		1.613	1.501	1.456	1.428	1.358	1.435	7.0
2-Methylphenol		1.121	1.034	1.033	1.042	0.956	1.010	6.7
3+4-Methylphenols		1.495	1.362	1.305	1.347	1.211	1.298	9.0
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
Hexachlorobutadiene		0.227	0.225	0.219	0.212	0.209	0.215	4.2
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
2,4-Dinitrotoluene		0.403	0.403	0.416	0.404	0.386	0.397	3.2
2,4,6-Tribromophenol		0.222	0.209	0.220	0.216	0.210	0.214	2.5
Hexachlorobenzene		0.257	0.240	0.239	0.233	0.232	0.238	3.7
Pentachlorophenol			0.071	0.090	0.116	0.115	0.105	19.2
Terphenyl-d14		1.351	1.254	1.308	1.283	1.228	1.284	3.3

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

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

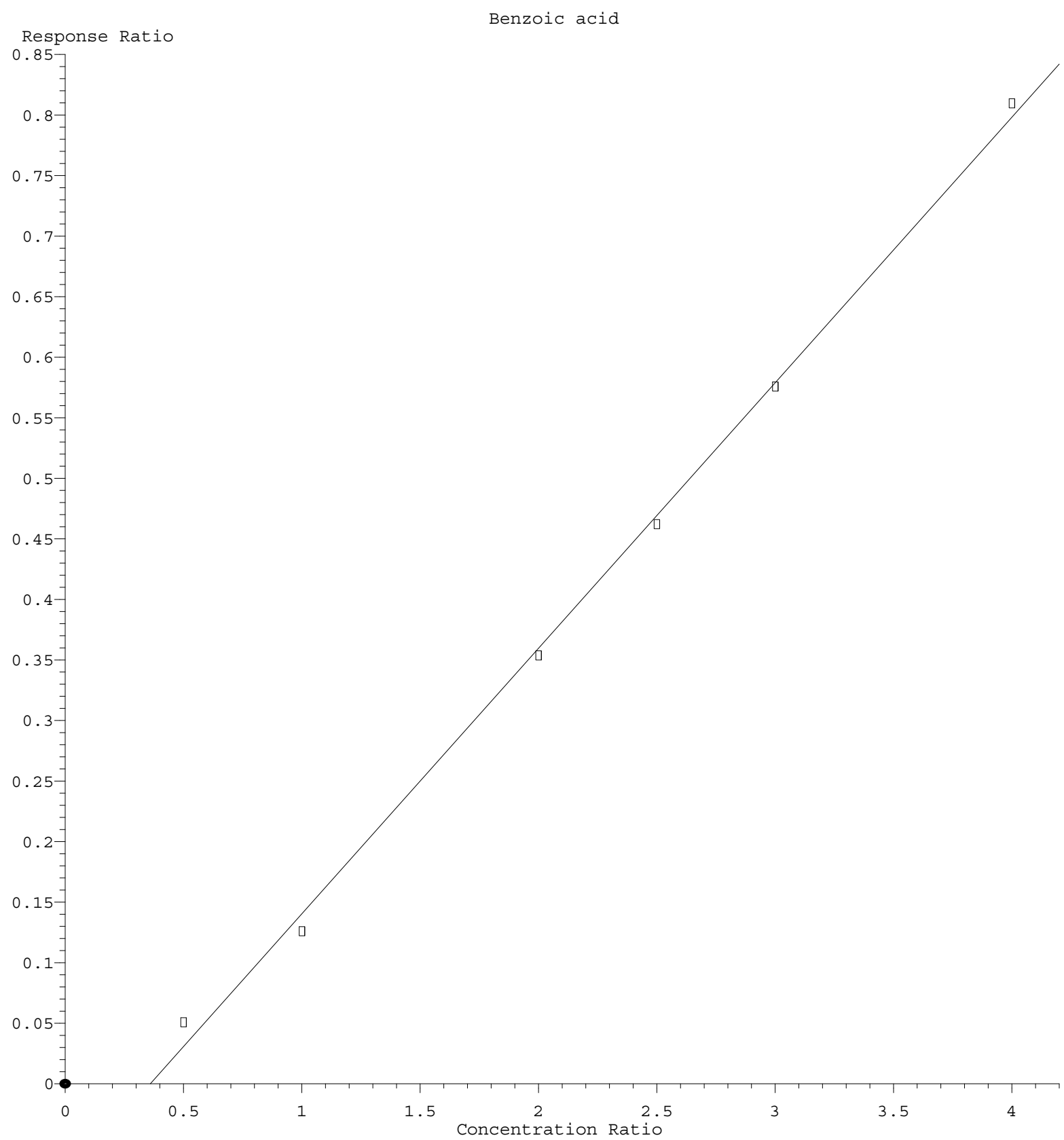
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

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

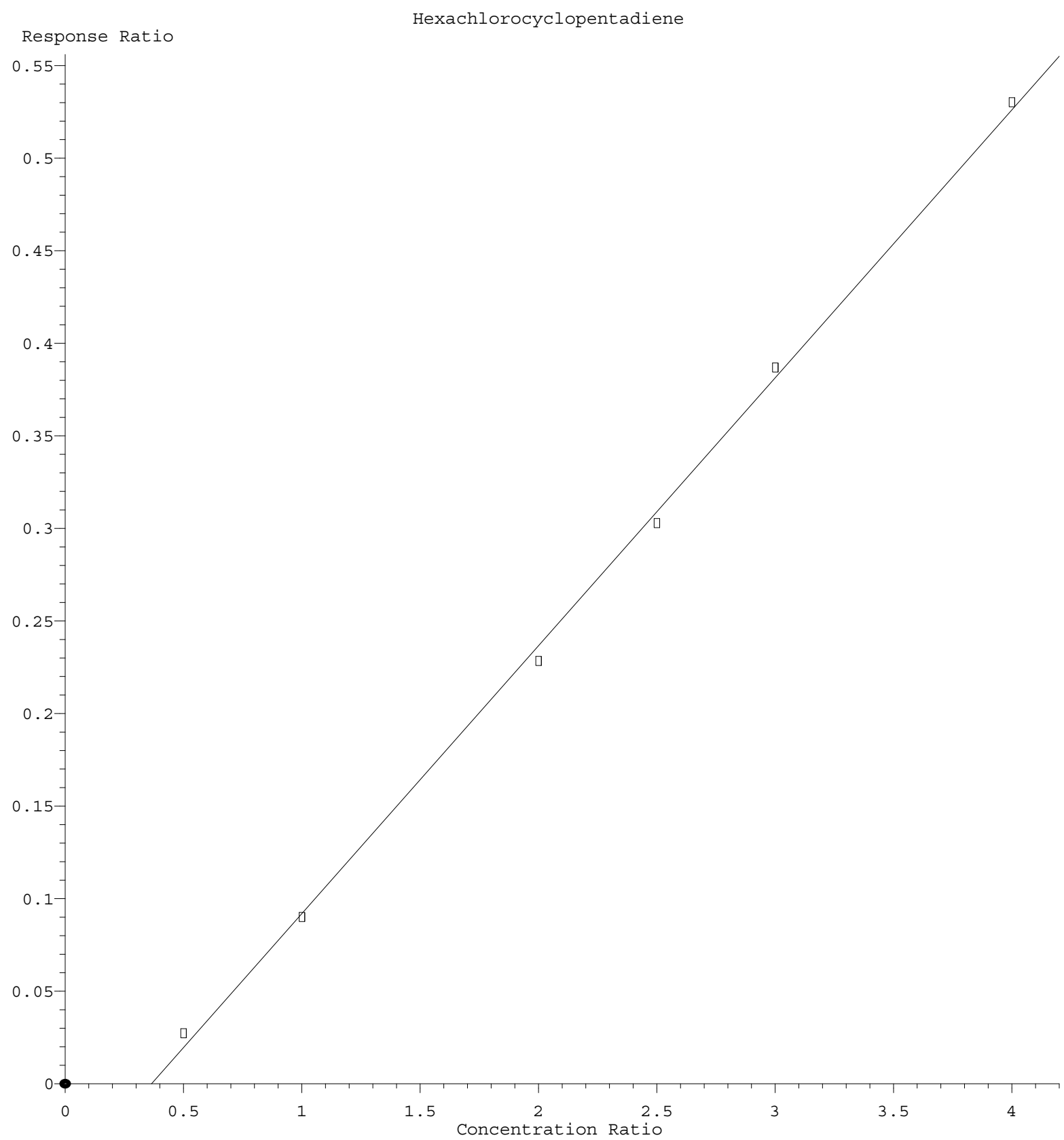
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

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

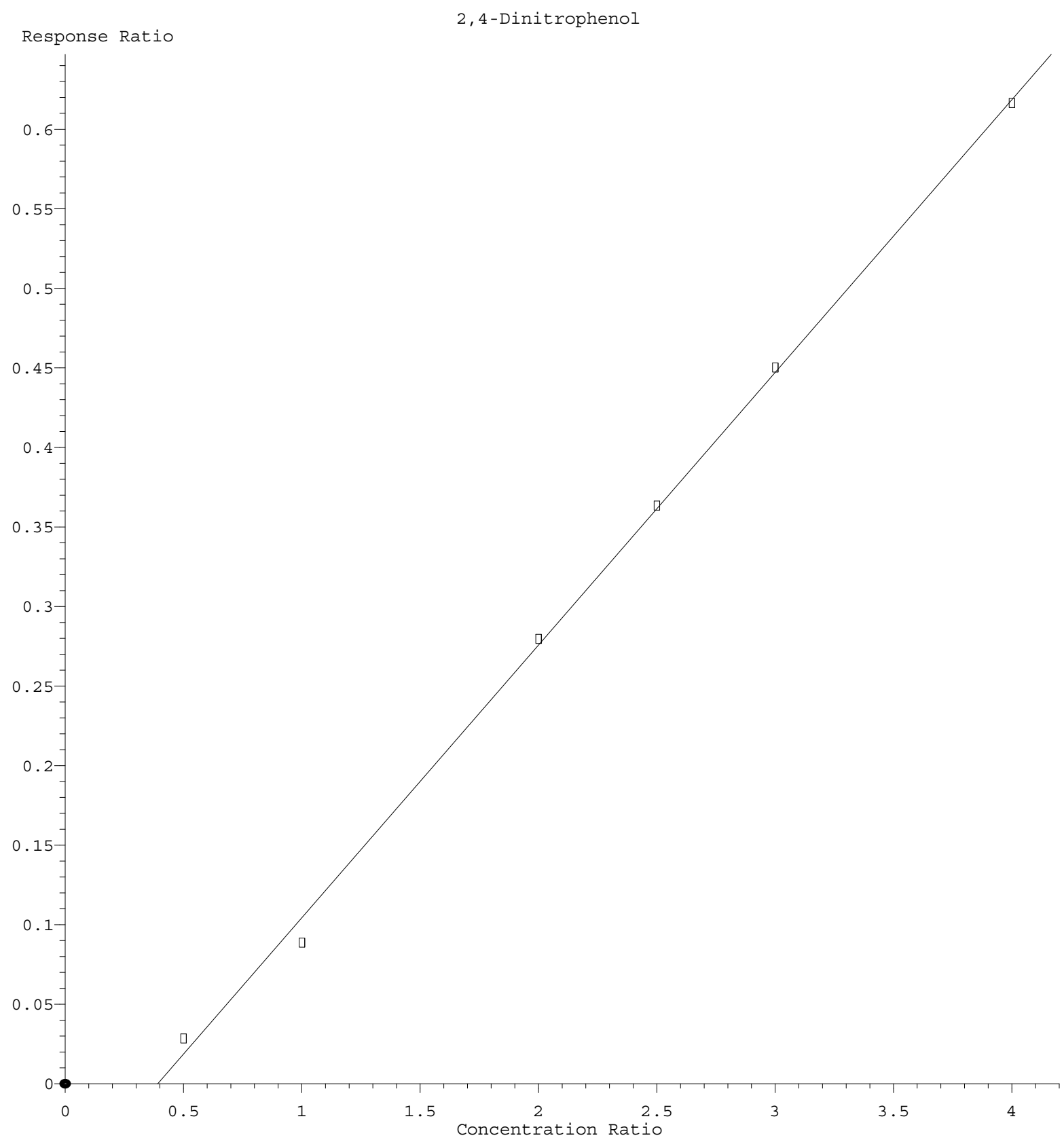
(#) = Out of Range



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

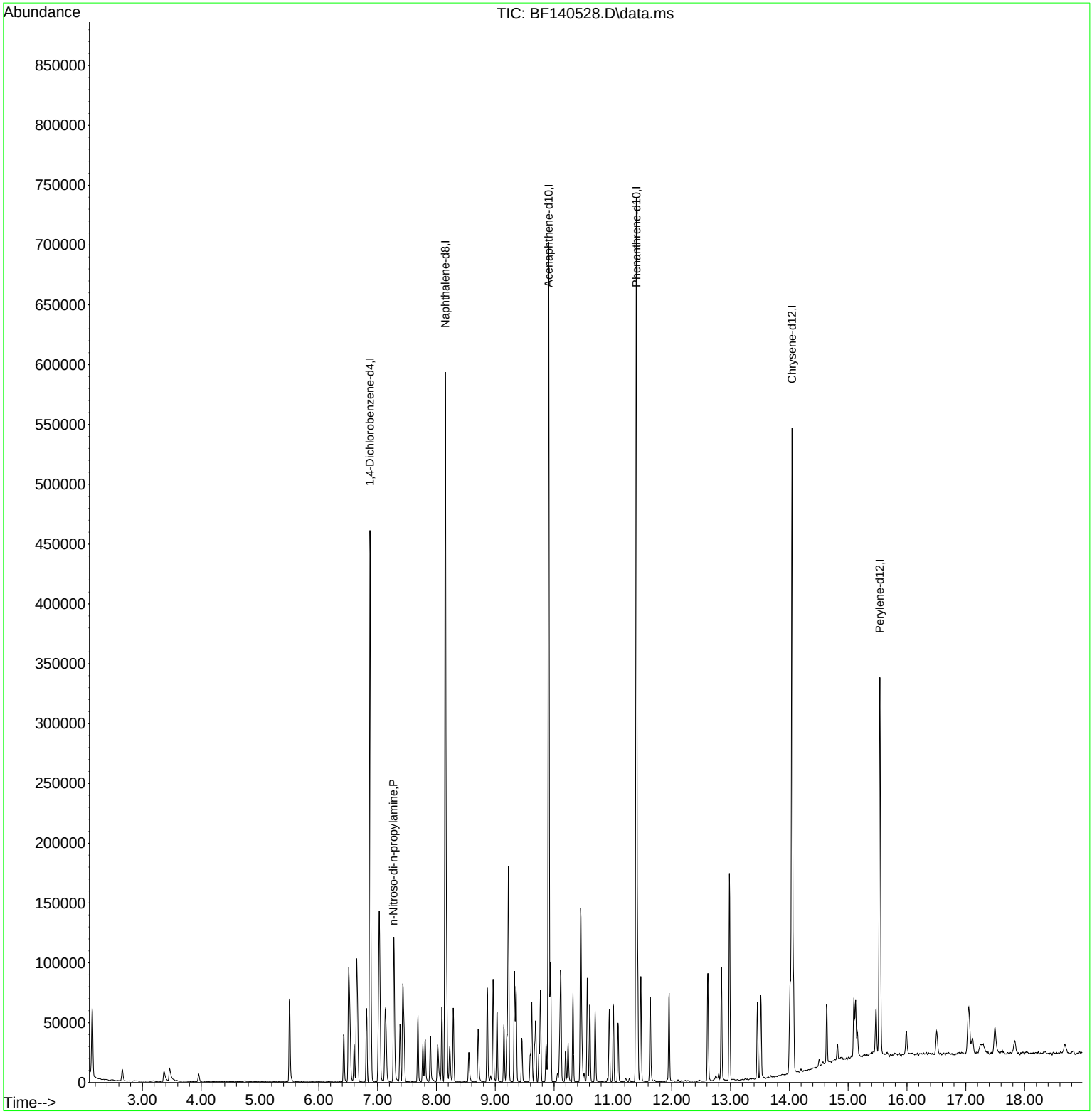
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

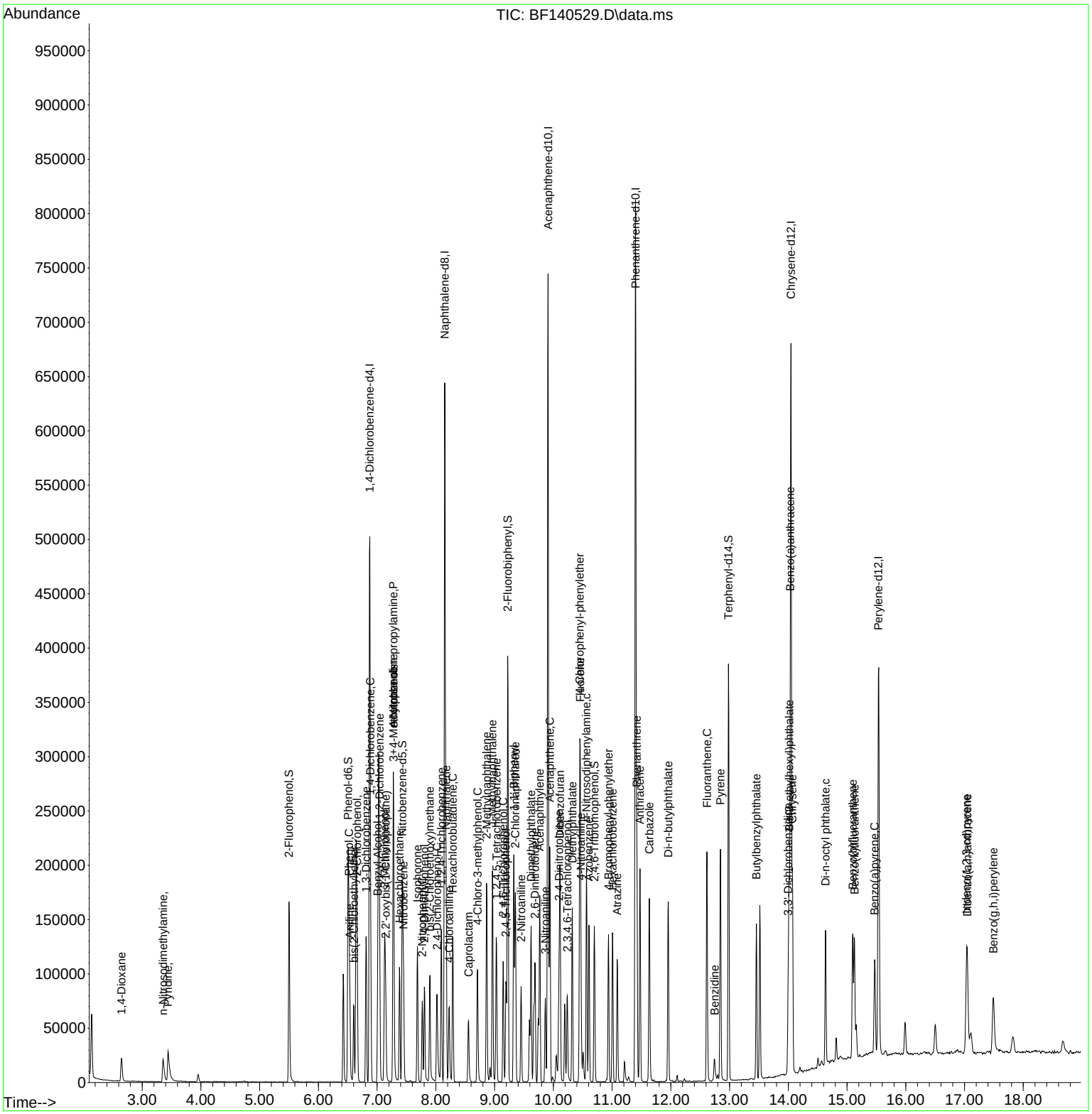
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Nitroaniline	9.451	65	20109	5.050	ng		99
49) Acenaphthylene	9.769	152	103605	5.527	ng		99
50) Dimethylphthalate	9.622	163	79770	5.523	ng		98
51) 2,6-Dinitrotoluene	9.687	165	17217	5.256	ng		99
52) Acenaphthene	9.939	154	64777	5.337	ng		97
53) 3-Nitroaniline	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

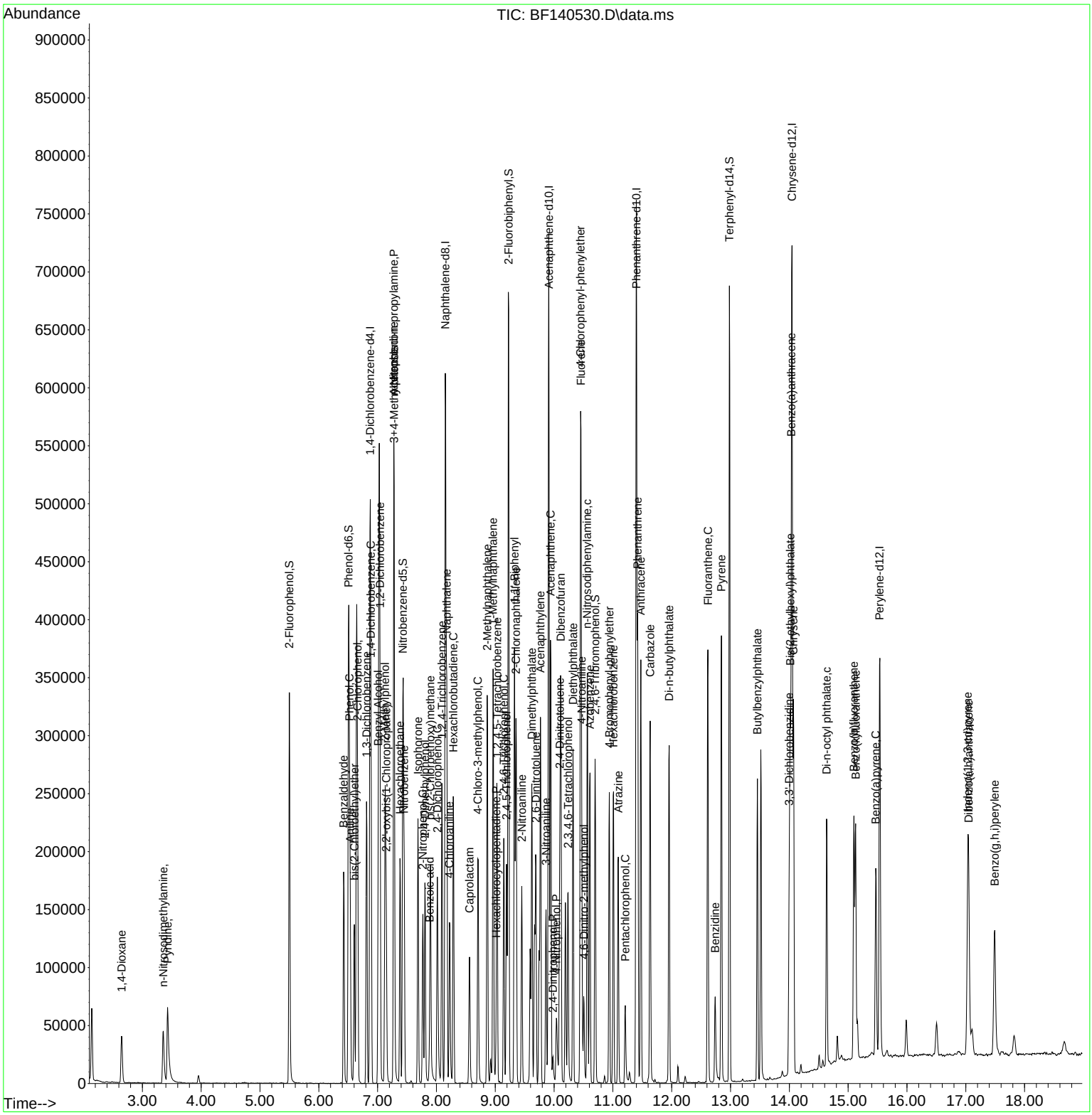
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140530.D
Acq On : 21 Nov 2024 12:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

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

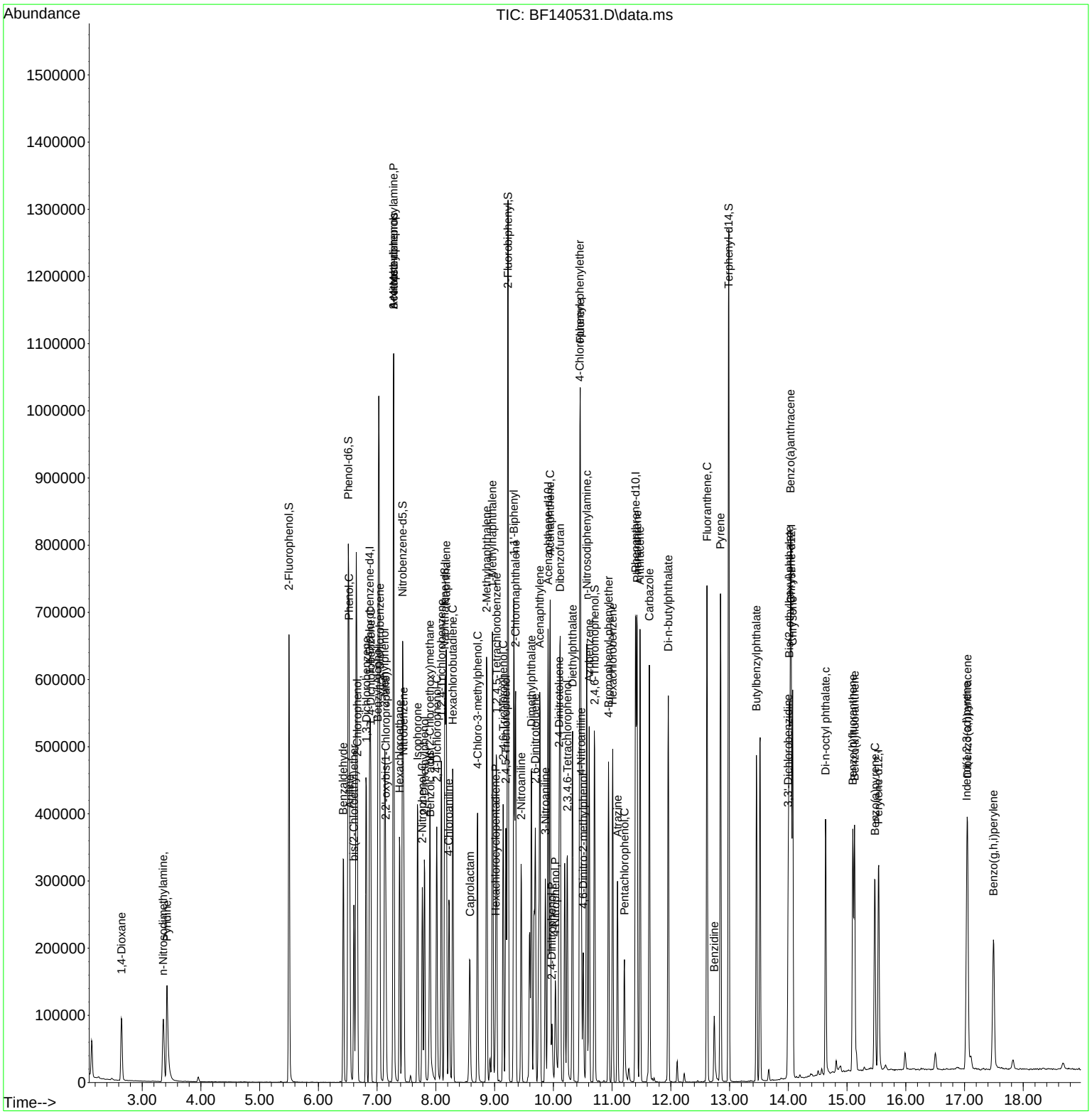
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140531.D
Acq On : 21 Nov 2024 12:32
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

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

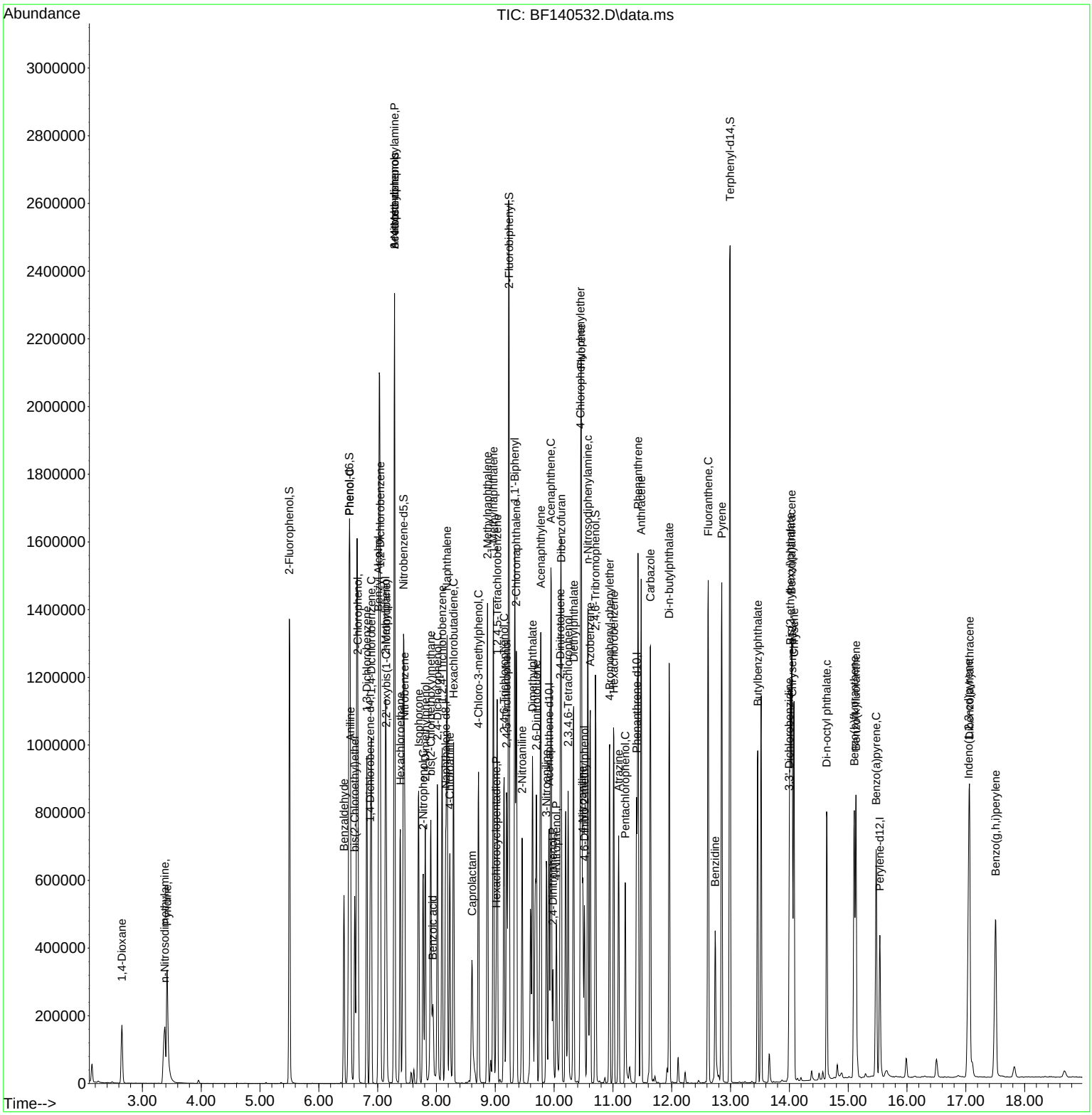
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140532.D
Acq On : 21 Nov 2024 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

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

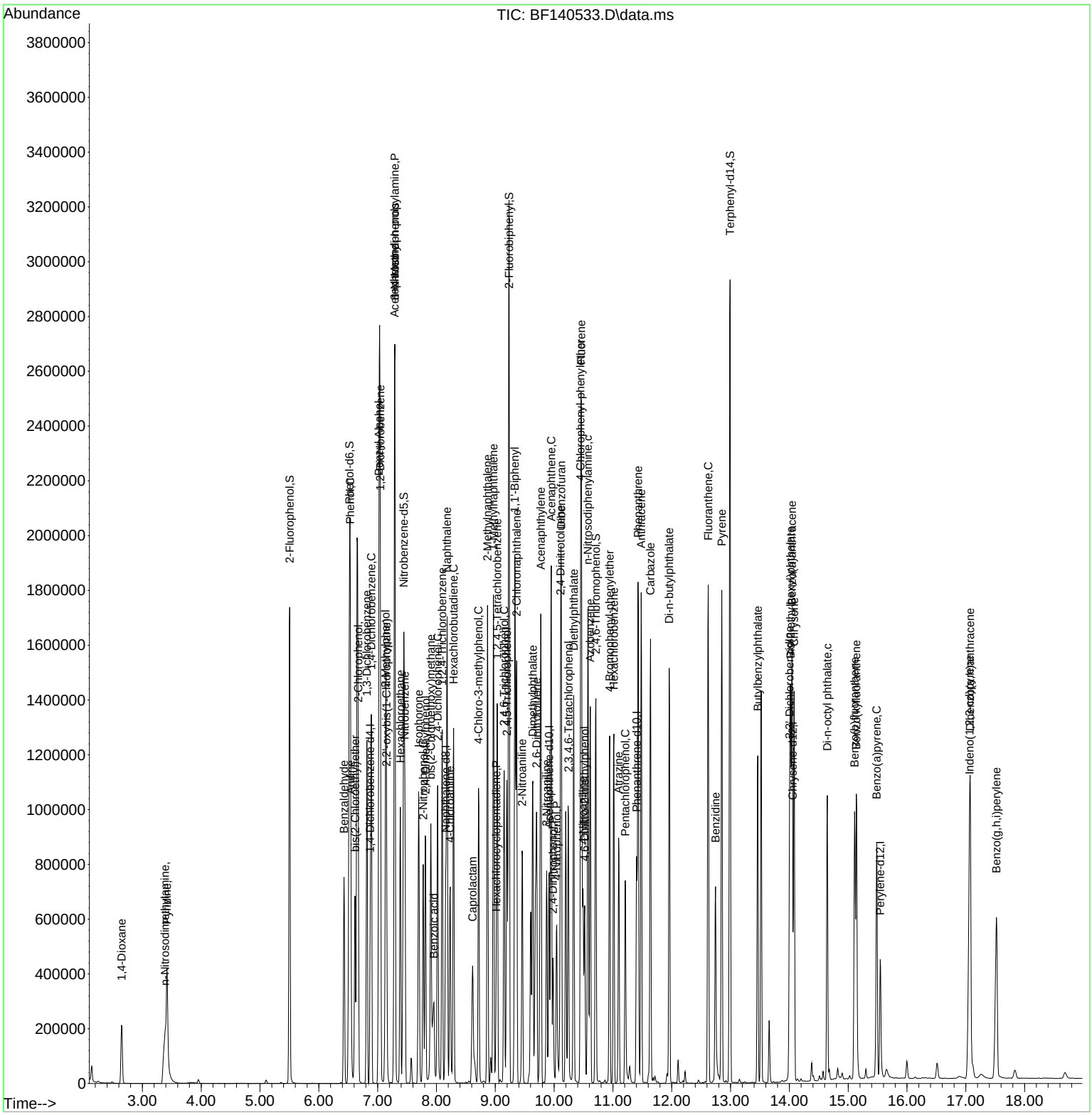
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	227840	48.866	ng	98
46) 1,1'-Biphenyl	9.333	154	834139	47.772	ng	99
47) 2-Chloronaphthalene	9.363	162	632459	47.803	ng	99
48) 2-Nitroaniline	9.457	65	212420	50.020	ng	98
49) Acenaphthylene	9.775	152	951784	47.612	ng	99
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

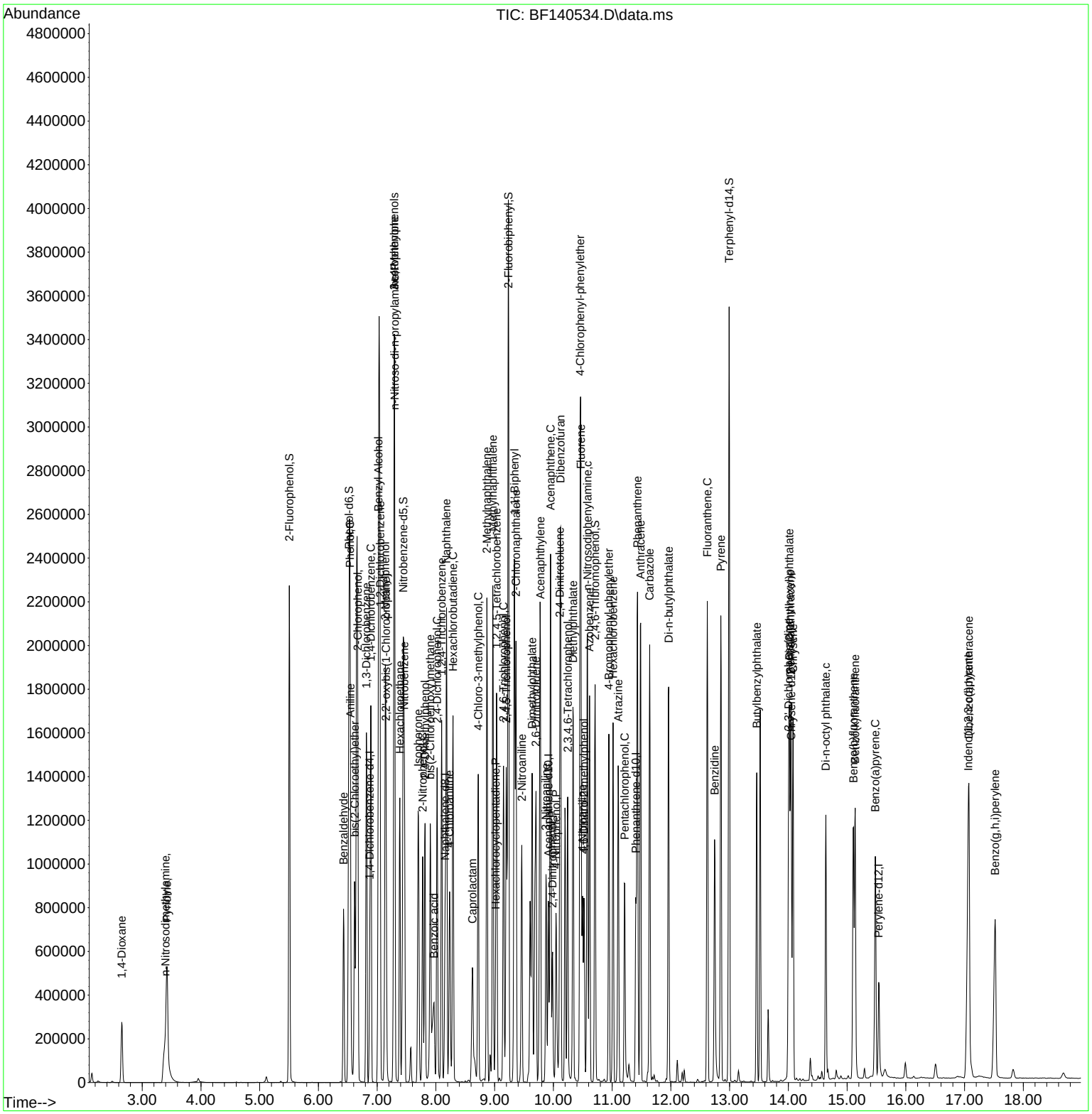
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	300029	59.694	ng	98
46) 1,1'-Biphenyl	9.339	154	1072474	56.978	ng	99
47) 2-Chloronaphthalene	9.363	162	819966	57.492	ng	99
48) 2-Nitroaniline	9.463	65	269813	58.938	ng	96
49) Acenaphthylene	9.780	152	1227568	56.965	ng	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

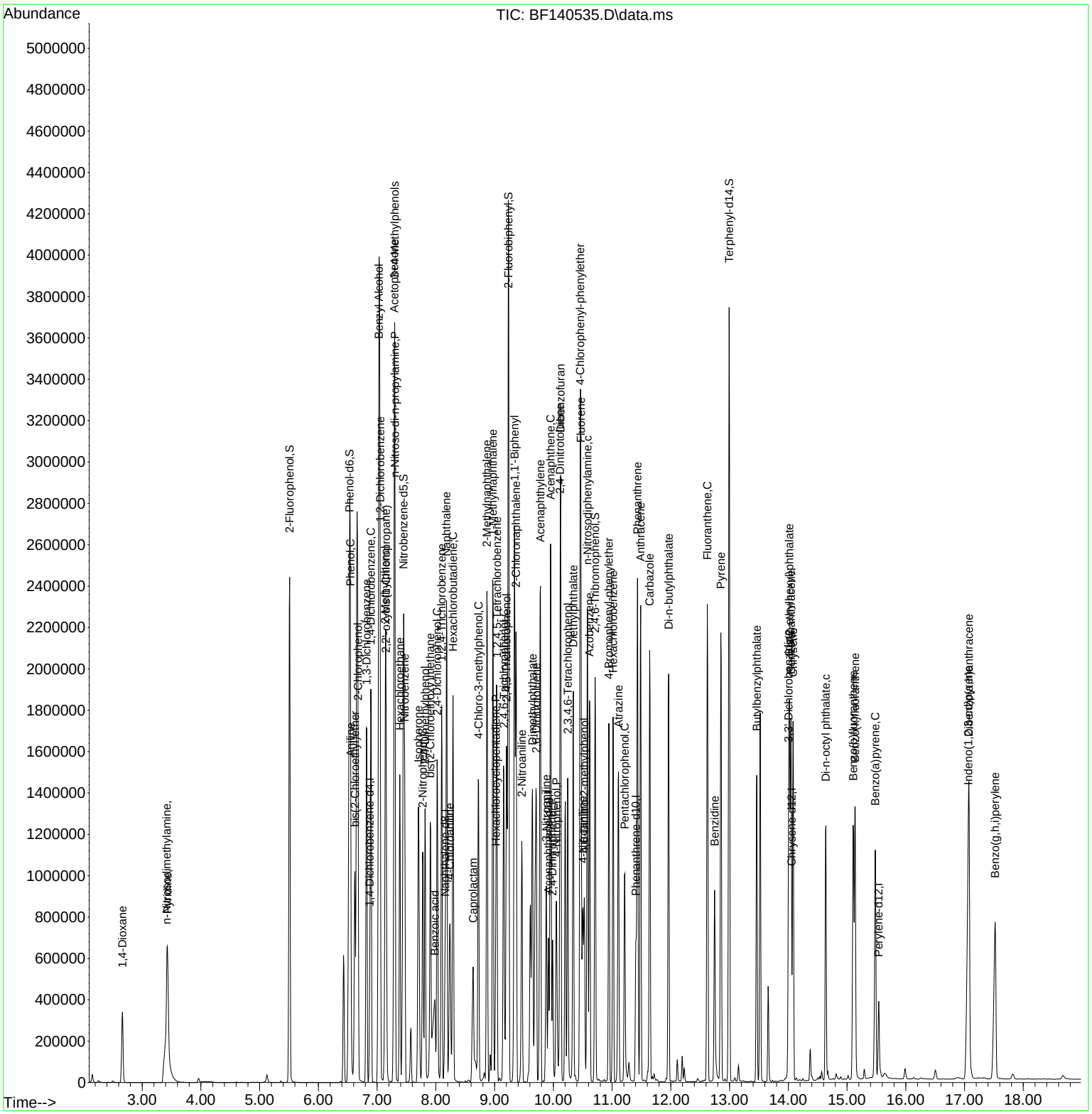
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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
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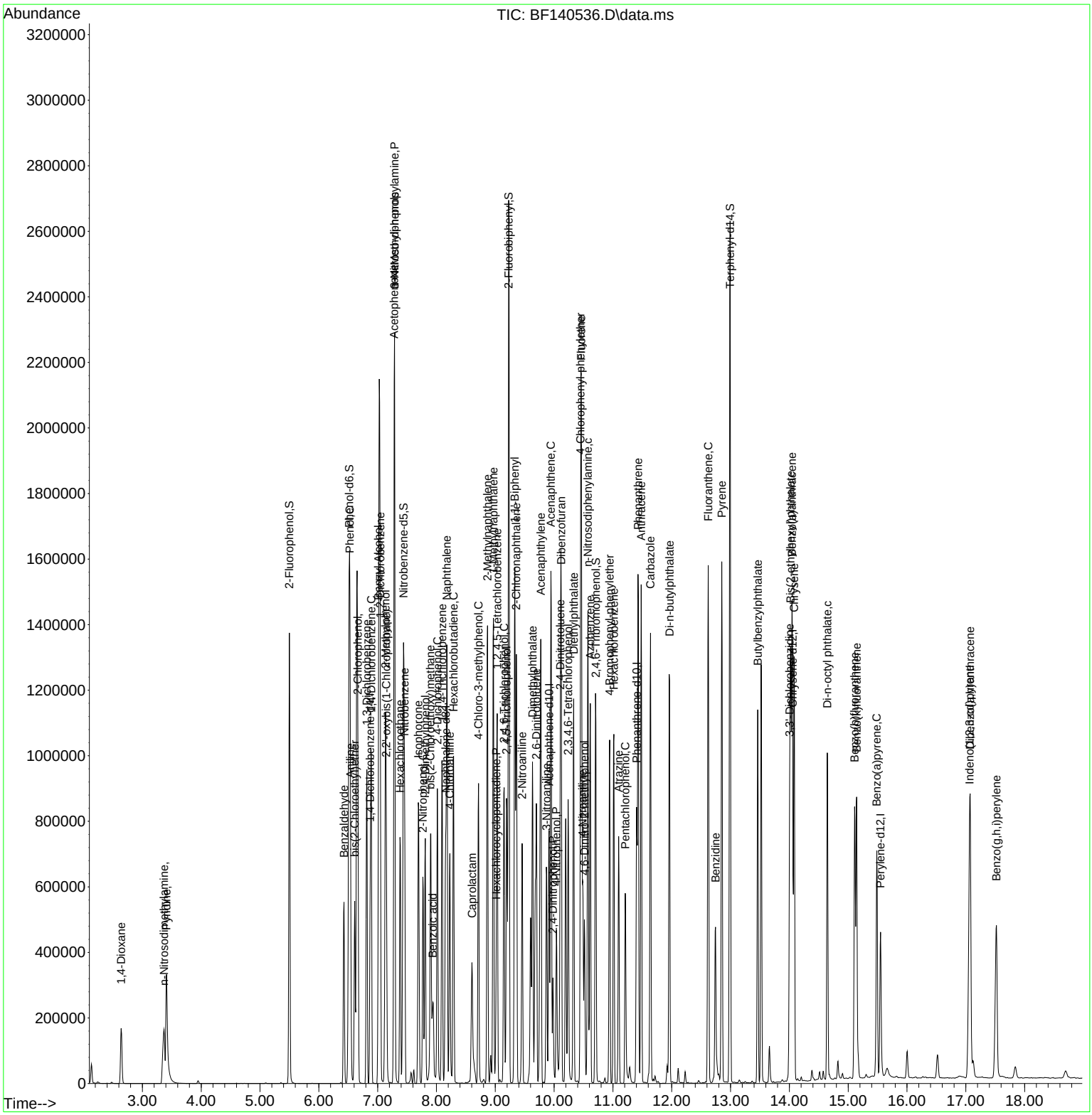
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

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\
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Quant Time: Nov 21 16:11:44 2024
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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

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Data File : BF140536.D
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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\
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Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Quant Time: Nov 21 16:11:44 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

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

Compound	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\
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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: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG No.: P4921

Instrument ID: BNA_F Calibration Date/Time: 11/21/2024 16:54

Lab File ID: BF140539.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
Pyridine	1.084	1.199		10.6	
2-Fluorophenol	1.172	1.157		-1.3	
Phenol-d6	1.550	1.556		0.4	
1,4-Dichlorobenzene	1.435	1.386		-3.4	20.0
2-Methylphenol	1.010	1.024		1.4	
3+4-Methylphenols	1.298	1.347		3.8	
Nitrobenzene-d5	0.391	0.387		-1.0	
Hexachloroethane	0.536	0.531		-0.9	
Nitrobenzene	0.404	0.400		-1.0	
Hexachlorobutadiene	0.215	0.213		-0.9	20.0
2,4,6-Trichlorophenol	0.367	0.364		-0.8	20.0
2-Fluorobiphenyl	1.342	1.301		-3.1	
2,4,5-Trichlorophenol	0.399	0.404		1.3	
2,4-Dinitrotoluene	0.397	0.397		0.0	
2,4,6-Tribromophenol	0.214	0.210		-1.9	
Hexachlorobenzene	0.238	0.236		-0.8	
Pentachlorophenol	0.105	0.110		4.8	20.0
Terphenyl-d14	1.284	1.308		1.9	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 17:17:28 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 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	106707	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	411509	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	234805	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	433198	20.000	ng	0.00
76) Chrysene-d12	14.051	240	229401	20.000	ng	0.00
86) Perylene-d12	15.539	264	204401	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	494019	78.992	ng	0.00
7) Phenol-d6	6.516	99	664030	80.313	ng	0.00
23) Nitrobenzene-d5	7.440	82	637619	79.256	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	196904	78.409	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1221993	77.541	ng	0.00
79) Terphenyl-d14	12.986	244	1200567	81.492	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	100710	38.300	ng	100
3) Pyridine	3.410	79	255881	44.228	ng	98
4) n-Nitrosodimethylamine	3.375	42	136528	40.151	ng	99
6) Aniline	6.540	93	276326	47.483	ng	92
8) 2-Chlorophenol	6.663	128	266553	39.616	ng	99
9) Benzaldehyde	6.428	77	163526	37.361	ng	99
10) Phenol	6.528	94	344359	40.783	ng	98
11) bis(2-Chloroethyl)ether	6.610	93	258767	40.048	ng	99
12) 1,3-Dichlorobenzene	6.816	146	297490	39.349	ng	99
13) 1,4-Dichlorobenzene	6.893	146	295726	38.631	ng	99
14) 1,2-Dichlorobenzene	7.045	146	280451	39.097	ng	99
15) Benzyl Alcohol	7.016	79	254571	41.519	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	309539	40.551	ng	94
17) 2-Methylphenol	7.134	107	218551	40.577	ng	99
18) Hexachloroethane	7.381	117	113372	39.653	ng	97
19) n-Nitroso-di-n-propyla...	7.287	70	203944	41.737	ng	99
20) 3+4-Methylphenols	7.287	107	287386	41.512	ng	98
22) Acetophenone	7.287	105	391707	39.044	ng	99
24) Nitrobenzene	7.457	77	328924	39.559	ng	100
25) Isophorone	7.692	82	540659	40.292	ng	99
26) 2-Nitrophenol	7.775	139	149777	40.648	ng	98
27) 2,4-Dimethylphenol	7.810	122	184388m	41.823	ng	
28) bis(2-Chloroethoxy)met...	7.904	93	331055	40.498	ng	99
29) 2,4-Dichlorophenol	8.016	162	234150	40.081	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	260757	39.093	ng	100
31) Naphthalene	8.181	128	827649	39.047	ng	99
32) Benzoic acid	7.940	122	143496	38.990	ng	98
33) 4-Chloroaniline	8.228	127	281571	44.368	ng	99
34) Hexachlorobutadiene	8.292	225	175267	39.671	ng	99
35) Caprolactam	8.604	113	71907	39.774	ng	96
36) 4-Chloro-3-methylphenol	8.716	107	266539	40.750	ng	99
37) 2-Methylnaphthalene	8.869	142	543169	40.345	ng	100
38) 1-Methylnaphthalene	8.969	142	527506	39.973	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	269183	39.160	ng	100
41) Hexachlorocyclopentadiene	9.016	237	52904	38.411	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	170801	39.599	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 17:17:28 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 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	189761	40.537	ng	98
46) 1,1'-Biphenyl	9.334	154	680681	38.828	ng	100
47) 2-Chloronaphthalene	9.357	162	518275	39.017	ng	100
48) 2-Nitroaniline	9.457	65	170700	40.035	ng	100
49) Acenaphthylene	9.775	152	784313	39.078	ng	99
50) Dimethylphthalate	9.634	163	602216	38.943	ng	100
51) 2,6-Dinitrotoluene	9.698	165	138359	39.450	ng	99
52) Acenaphthene	9.945	154	492836m	38.646	ng	
53) 3-Nitroaniline	9.869	138	139591	40.695	ng	100
54) 2,4-Dinitrophenol	9.981	184	56887	36.079	ng	99
55) Dibenzofuran	10.116	168	744040	38.251	ng	98
56) 4-Nitrophenol	10.039	139	92459	39.523	ng	100
57) 2,4-Dinitrotoluene	10.104	165	186272	39.963	ng	98
58) Fluorene	10.463	166	600980	38.491	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	149963	41.683	ng	97
60) Diethylphthalate	10.334	149	617727	39.316	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	301095	39.295	ng	99
62) 4-Nitroaniline	10.486	138	142019	39.476	ng	99
63) Azobenzene	10.610	77	581247	39.065	ng	98
65) 4,6-Dinitro-2-methylph...	10.516	198	91723	41.435	ng	98
66) n-Nitrosodiphenylamine	10.575	169	503313	39.288	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	178577	40.028	ng	97
68) Hexachlorobenzene	11.010	284	204574	39.602	ng	97
69) Atrazine	11.098	200	122529	33.999	ng	98
70) Pentachlorophenol	11.210	266	95191	41.869	ng	100
71) Phenanthrene	11.428	178	797226	38.285	ng	100
72) Anthracene	11.480	178	790118	38.790	ng	99
73) Carbazole	11.633	167	751892	38.371	ng	100
74) Di-n-butylphthalate	11.957	149	901629	39.855	ng	100
75) Fluoranthene	12.616	202	858783	37.984	ng	99
77) Benzidine	12.739	184	312946	46.921	ng	99
78) Pyrene	12.851	202	853393	40.234	ng	99
80) Butylbenzylphthalate	13.457	149	316818	41.463	ng	96
81) Benzo(a)anthracene	14.039	228	595609	39.222	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	183754	40.304	ng	98
83) Chrysene	14.074	228	536182	38.615	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	389023	40.320	ng	99
85) Di-n-octyl phthalate	14.639	149	521198	39.527	ng	100
87) Indeno(1,2,3-cd)pyrene	17.051	276	547676	41.115	ng	99
88) Benzo(b)fluoranthene	15.104	252	468137	36.463	ng	99
89) Benzo(k)fluoranthene	15.133	252	461600	41.086	ng	100
90) Benzo(a)pyrene	15.480	252	419613	40.197	ng	100
91) Dibenzo(a,h)anthracene	17.068	278	453589	41.579	ng	99
92) Benzo(g,h,i)perylene	17.509	276	452415	40.641	ng	99

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

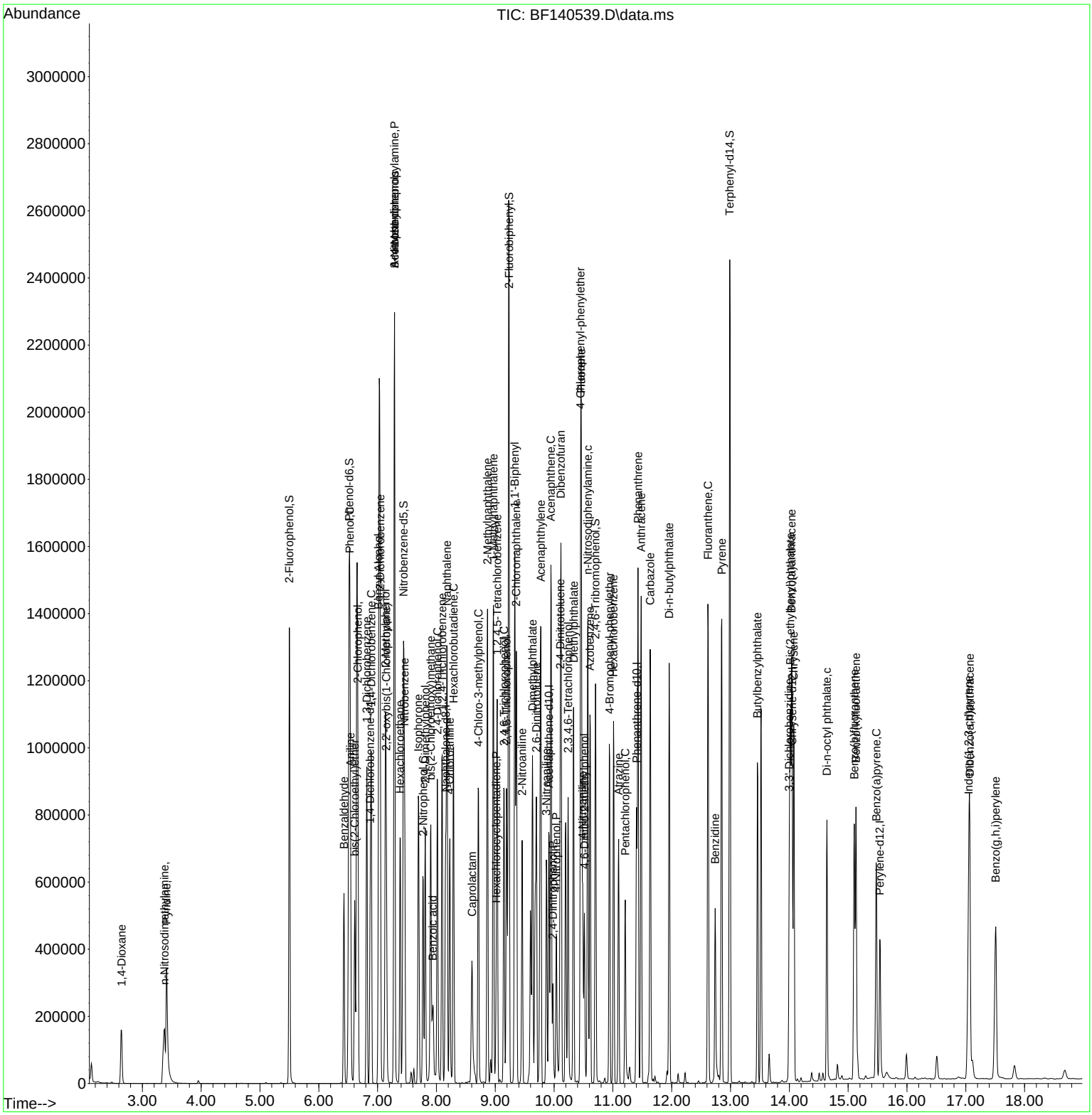
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 17:17:28 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 11/22/2024
Supervised By :mohammad ahmed 11/27/2024



Sample Results: **BF140539.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 21 17:17:28 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	0.472	4.3	96	0.00
3		Pyridine	1.084	1.199	-10.6	100	-0.01
4		n-Nitrosodimethylamine	0.637	0.640	-0.5	98	0.00
5	S	2-Fluorophenol	1.172	1.157	1.3	98	0.00
6		Aniline	1.091	1.295	-18.7	103	0.00
7	S	Phenol-d6	1.550	1.556	-0.4	96	0.00
8		2-Chlorophenol	1.261	1.249	1.0	97	0.00
9		Benzaldehyde	0.820	0.766	6.6	103	0.00
10	C	Phenol	1.583	1.614	-2.0	96	0.00
11		bis(2-Chloroethyl)ether	1.211	1.213	-0.2	97	0.00
12		1,3-Dichlorobenzene	1.417	1.394	1.6	99	0.00
13	C	1,4-Dichlorobenzene	1.435	1.386	3.4	96	0.00
14		1,2-Dichlorobenzene	1.344	1.314	2.2	96	0.00
15		Benzyl Alcohol	1.149	1.193	-3.8	97	0.00
16		2,2'-oxybis(1-Chloropropane	1.431	1.450	-1.3	98	0.00
17		2-Methylphenol	1.009	1.024	-1.5	98	0.00
18		Hexachloroethane	0.536	0.531	0.9	98	0.00
19	P	n-Nitroso-di-n-propylamine	0.916	0.956	-4.4	100	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	100	0.00
22		Acetophenone	0.488	0.476	2.5	98	0.00
23	S	Nitrobenzene-d5	0.391	0.387	1.0	98	0.00
24		Nitrobenzene	0.404	0.400	1.0	99	0.00
25		Isophorone	0.652	0.657	-0.8	99	0.00
26	C	2-Nitrophenol	0.179	0.182	-1.7	100	0.00
27		2,4-Dimethylphenol	0.214	0.224	-4.7	99	0.00
28		bis(2-Chloroethoxy)methane	0.397	0.402	-1.3	101	0.00
29	C	2,4-Dichlorophenol	0.284	0.285	-0.4	100	0.00
30		1,2,4-Trichlorobenzene	0.324	0.317	2.2	100	0.00
31		Naphthalene	1.030	1.006	2.3	99	0.00
32		Benzoic acid	0.164	0.174	-6.1	98	0.00
33		4-Chloroaniline	0.308	0.342	-11.0	105	0.00
34	C	Hexachlorobutadiene	0.215	0.213	0.9	100	0.00
35		Caprolactam	0.088	0.087	1.1	96	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.324	-1.9	99	0.00
37		2-Methylnaphthalene	0.654	0.660	-0.9	101	0.00
38		1-Methylnaphthalene	0.641	0.641	0.0	100	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	0.586	0.573	2.2	102	0.00
41	P	Hexachlorocyclopentadiene	0.107	0.113	-5.6	99	0.00
42	S	2,4,6-Tribromophenol	0.214	0.210	1.9	97	0.00
43	C	2,4,6-Trichlorophenol	0.367	0.364	0.8	100	0.00
44		2,4,5-Trichlorophenol	0.399	0.404	-1.3	100	0.00
45	S	2-Fluorobiphenyl	1.342	1.301	3.1	101	0.00
46		1,1'-Biphenyl	1.493	1.449	2.9	100	0.00
47		2-Chloronaphthalene	1.131	1.104	2.4	100	0.00

Sample Results: **BF140539.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 21 17:17:28 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	0.363	0.0	99	0.00
49		Acenaphthylene	1.710	1.670	2.3	101	0.00
50		Dimethylphthalate	1.317	1.282	2.7	99	0.00
51		2,6-Dinitrotoluene	0.299	0.295	1.3	98	0.00
52	C	Acenaphthene	1.086	1.049	3.4	99	0.00
53		3-Nitroaniline	0.292	0.297	-1.7	99	0.00
54	P	2,4-Dinitrophenol	0.122	0.121	0.8	87	0.00
55		Dibenzofuran	1.657	1.584	4.4	98	0.00
56	P	4-Nitrophenol	0.199	0.197	1.0	95	0.00
57		2,4-Dinitrotoluene	0.397	0.397	0.0	98	0.00
58		Fluorene	1.330	1.280	3.8	99	0.00
59		2,3,4,6-Tetrachlorophenol	0.306	0.319	-4.2	102	0.00
60		Diethylphthalate	1.338	1.315	1.7	101	0.00
61		4-Chlorophenyl-phenylether	0.653	0.641	1.8	100	0.00
62		4-Nitroaniline	0.306	0.302	1.3	97	0.00
63		Azobenzene	1.267	1.238	2.3	100	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	0.102	0.106	-3.9	95	0.00
66	c	n-Nitrosodiphenylamine	0.591	0.581	1.7	100	0.00
67		4-Bromophenyl-phenylether	0.206	0.206	0.0	102	0.00
68		Hexachlorobenzene	0.238	0.236	0.8	100	0.00
69		Atrazine	0.166	0.141	15.1	100	0.00
70	C	Pentachlorophenol	0.105	0.110	-4.8	94	0.00
71		Phenanthrene	0.961	0.920	4.3	96	0.00
72		Anthracene	0.940	0.912	3.0	98	0.00
73		Carbazole	0.905	0.868	4.1	97	0.00
74		Di-n-butylphthalate	1.044	1.041	0.3	101	0.00
75	C	Fluoranthene	1.044	0.991	5.1	97	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	96	0.00
77		Benzidine	0.581	0.682	-17.4	114	0.00
78		Pyrene	1.849	1.860	-0.6	96	0.00
79	S	Terphenyl-d14	1.284	1.308	-1.9	98	0.00
80		Butylbenzylphthalate	0.666	0.691	-3.8	98	0.00
81		Benzo(a)anthracene	1.324	1.298	2.0	97	0.00
82		3,3'-Dichlorobenzidine	0.397	0.401	-1.0	93	0.00
83		Chrysene	1.211	1.169	3.5	93	0.00
84		Bis(2-ethylhexyl)phthalate	0.841	0.848	-0.8	98	0.00
85	c	Di-n-octyl phthalate	1.150	1.136	1.2	96	0.00
86	I	Perylene-d12	1.000	1.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	1.303	1.340	-2.8	99	0.00
88		Benzo(b)fluoranthene	1.256	1.145	8.8	93	0.00
89		Benzo(k)fluoranthene	1.099	1.129	-2.7	99	0.00
90	C	Benzo(a)pyrene	1.021	1.026	-0.5	99	0.00
91		Dibenzo(a,h)anthracene	1.067	1.110	-4.0	100	0.00
92		Benzo(g,h,i)perylene	1.089	1.107	-1.7	99	0.00

Sample Results: **BF140539.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 21 17:17:28 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: **BF140539.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 21 17:17:28 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	38.300	4.3	96	0.00
3		Pyridine	40.000	44.228	-10.6	100	-0.01
4		n-Nitrosodimethylamine	40.000	40.151	-0.4	98	0.00
5	S	2-Fluorophenol	80.000	78.992	1.3	98	0.00
6		Aniline	40.000	47.483	-18.7	103	0.00
7	S	Phenol-d6	80.000	80.313	-0.4	96	0.00
8		2-Chlorophenol	40.000	39.616	1.0	97	0.00
9		Benzaldehyde	40.000	37.361	6.6	103	0.00
10	C	Phenol	40.000	40.783	-2.0	96	0.00
11		bis(2-Chloroethyl)ether	40.000	40.048	-0.1	97	0.00
12		1,3-Dichlorobenzene	40.000	39.349	1.6	99	0.00
13	C	1,4-Dichlorobenzene	40.000	38.631	3.4	96	0.00
14		1,2-Dichlorobenzene	40.000	39.097	2.3	96	0.00
15		Benzyl Alcohol	40.000	41.519	-3.8	97	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.551	-1.4	98	0.00
17		2-Methylphenol	40.000	40.577	-1.4	98	0.00
18		Hexachloroethane	40.000	39.653	0.9	98	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	41.737	-4.3	100	0.00
20		3+4-Methylphenols	40.000	41.512	-3.8	99	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	100	0.00
22		Acetophenone	40.000	39.044	2.4	98	0.00
23	S	Nitrobenzene-d5	80.000	79.256	0.9	98	0.00
24		Nitrobenzene	40.000	39.559	1.1	99	0.00
25		Isophorone	40.000	40.292	-0.7	99	0.00
26	C	2-Nitrophenol	40.000	40.648	-1.6	100	0.00
27		2,4-Dimethylphenol	40.000	41.823	-4.6	99	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.498	-1.2	101	0.00
29	C	2,4-Dichlorophenol	40.000	40.081	-0.2	100	0.00
30		1,2,4-Trichlorobenzene	40.000	39.093	2.3	100	0.00
31		Naphthalene	40.000	39.047	2.4	99	0.00
32		Benzoic acid	40.000	38.990	2.5	98	0.00
33		4-Chloroaniline	40.000	44.368	-10.9	105	0.00
34	C	Hexachlorobutadiene	40.000	39.671	0.8	100	0.00
35		Caprolactam	40.000	39.774	0.6	96	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.750	-1.9	99	0.00
37		2-Methylnaphthalene	40.000	40.345	-0.9	101	0.00
38		1-Methylnaphthalene	40.000	39.973	0.1	100	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.160	2.1	102	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.411	4.0	99	0.00
42	S	2,4,6-Tribromophenol	80.000	78.409	2.0	97	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.599	1.0	100	0.00
44		2,4,5-Trichlorophenol	40.000	40.537	-1.3	100	0.00
45	S	2-Fluorobiphenyl	80.000	77.541	3.1	101	0.00
46		1,1'-Biphenyl	40.000	38.828	2.9	100	0.00
47		2-Chloronaphthalene	40.000	39.017	2.5	100	0.00

Sample Results: **BF140539.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 21 17:17:28 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	40.035	-0.1	99	0.00
49		Acenaphthylene	40.000	39.078	2.3	101	0.00
50		Dimethylphthalate	40.000	38.943	2.6	99	0.00
51		2,6-Dinitrotoluene	40.000	39.450	1.4	98	0.00
52	C	Acenaphthene	40.000	38.646	3.4	99	0.00
53		3-Nitroaniline	40.000	40.695	-1.7	99	0.00
54	P	2,4-Dinitrophenol	40.000	36.079	9.8	87	0.00
55		Dibenzofuran	40.000	38.251	4.4	98	0.00
56	P	4-Nitrophenol	40.000	39.523	1.2	95	0.00
57		2,4-Dinitrotoluene	40.000	39.963	0.1	98	0.00
58		Fluorene	40.000	38.491	3.8	99	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.683	-4.2	102	0.00
60		Diethylphthalate	40.000	39.316	1.7	101	0.00
61		4-Chlorophenyl-phenylether	40.000	39.295	1.8	100	0.00
62		4-Nitroaniline	40.000	39.476	1.3	97	0.00
63		Azobenzene	40.000	39.065	2.3	100	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.435	-3.6	95	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.288	1.8	100	0.00
67		4-Bromophenyl-phenylether	40.000	40.028	-0.1	102	0.00
68		Hexachlorobenzene	40.000	39.602	1.0	100	0.00
69		Atrazine	40.000	33.999	15.0	100	0.00
70	C	Pentachlorophenol	40.000	41.869	-4.7	94	0.00
71		Phenanthrene	40.000	38.285	4.3	96	0.00
72		Anthracene	40.000	38.790	3.0	98	0.00
73		Carbazole	40.000	38.371	4.1	97	0.00
74		Di-n-butylphthalate	40.000	39.855	0.4	101	0.00
75	C	Fluoranthene	40.000	37.984	5.0	97	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	96	0.00
77		Benzidine	40.000	46.921	-17.3	114	0.00
78		Pyrene	40.000	40.234	-0.6	96	0.00
79	S	Terphenyl-d14	80.000	81.492	-1.9	98	0.00
80		Butylbenzylphthalate	40.000	41.463	-3.7	98	0.00
81		Benzo(a)anthracene	40.000	39.222	1.9	97	0.00
82		3,3'-Dichlorobenzidine	40.000	40.304	-0.8	93	0.00
83		Chrysene	40.000	38.615	3.5	93	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.320	-0.8	98	0.00
85	c	Di-n-octyl phthalate	40.000	39.527	1.2	96	0.00
86	I	Perylene-d12	20.000	20.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.115	-2.8	99	0.00
88		Benzo(b)fluoranthene	40.000	36.463	8.8	93	0.00
89		Benzo(k)fluoranthene	40.000	41.086	-2.7	99	0.00
90	C	Benzo(a)pyrene	40.000	40.197	-0.5	99	0.00
91		Dibenzo(a,h)anthracene	40.000	41.579	-3.9	100	0.00
92		Benzo(g,h,i)perylene	40.000	40.641	-1.6	99	0.00

Sample Results: **BF140539.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140539.D
Acq On : 21 Nov 2024 16:54
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 21 17:17:28 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: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG No.: P4921

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.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
Pyridine	1.084	1.124		3.7	
2-Fluorophenol	1.172	1.119		-4.5	
Phenol-d6	1.550	1.507		-2.8	
1,4-Dichlorobenzene	1.435	1.399		-2.5	20.0
2-Methylphenol	1.010	0.988		-2.2	
3+4-Methylphenols	1.298	1.252		-3.5	
Nitrobenzene-d5	0.391	0.377		-3.6	
Hexachloroethane	0.536	0.520		-3.0	
Nitrobenzene	0.404	0.386		-4.5	
Hexachlorobutadiene	0.215	0.212		-1.4	20.0
2,4,6-Trichlorophenol	0.367	0.368		0.3	20.0
2-Fluorobiphenyl	1.342	1.315		-2.0	
2,4,5-Trichlorophenol	0.399	0.405		1.5	
2,4-Dinitrotoluene	0.397	0.407		2.5	
2,4,6-Tribromophenol	0.214	0.210		-1.9	
Hexachlorobenzene	0.238	0.233		-2.1	
Pentachlorophenol	0.105	0.110		4.8	20.0
Terphenyl-d14	1.284	1.204		-6.2	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 18:48:05 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

11/27/2024
Supervised By :mohammad ahmed

11/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	105131	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	390145	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	212616	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	399326	20.000	ng		0.00
76) Chrysene-d12	14.051	240	244297	20.000	ng		0.00
86) Perylene-d12	15.545	264	211888	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.499	112	470615	76.378	ng		0.00
7) Phenol-d6	6.510	99	633777	77.804	ng		0.00
23) Nitrobenzene-d5	7.434	82	587615	77.040	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	178367	78.440	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1118753	78.399	ng		0.00
79) Terphenyl-d14	12.980	244	1176908	75.015	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.646	88	98712	38.103	ng		97
3) Pyridine	3.416	79	236295	41.455	ng		99
4) n-Nitrosodimethylamine	3.369	42	119549	35.685	ng		94
6) Aniline	6.540	93	259443	45.250	ng	#	74
8) 2-Chlorophenol	6.663	128	261308	39.419	ng		97
9) Benzaldehyde	6.422	77	163823	37.990	ng		97
10) Phenol	6.528	94	333559	40.096	ng		99
11) bis(2-Chloroethyl)ether	6.610	93	248111	38.975	ng		99
12) 1,3-Dichlorobenzene	6.810	146	290542	39.006	ng		100
13) 1,4-Dichlorobenzene	6.887	146	294081	38.992	ng		99
14) 1,2-Dichlorobenzene	7.045	146	276053	39.061	ng		99
15) Benzyl Alcohol	7.016	79	237020	39.236	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	299235	39.789	ng		85
17) 2-Methylphenol	7.128	107	207834	39.166	ng		96
18) Hexachloroethane	7.381	117	109405	38.839	ng		98
19) n-Nitroso-di-n-propyla...	7.281	70	185130	38.455	ng		98
20) 3+4-Methylphenols	7.281	107	263244	38.595	ng		97
22) Acetophenone	7.281	105	359944	37.843	ng		99
24) Nitrobenzene	7.457	77	300910	38.171	ng		98
25) Isophorone	7.692	82	492431	38.707	ng		100
26) 2-Nitrophenol	7.769	139	140623	40.253	ng		98
27) 2,4-Dimethylphenol	7.804	122	169792m	40.621	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	307613	39.691	ng		100
29) 2,4-Dichlorophenol	8.016	162	219962	39.714	ng		98
30) 1,2,4-Trichlorobenzene	8.092	180	249413	39.440	ng		99
31) Naphthalene	8.175	128	793741	39.498	ng		99
32) Benzoic acid	7.928	122	139453	39.786	ng		98
33) 4-Chloroaniline	8.222	127	258045	42.887	ng		99
34) Hexachlorobutadiene	8.287	225	165048	39.404	ng		99
35) Caprolactam	8.598	113	70356	41.047	ng		97
36) 4-Chloro-3-methylphenol	8.710	107	244946	39.500	ng		100
37) 2-Methylnaphthalene	8.863	142	507122	39.730	ng		99
38) 1-Methylnaphthalene	8.963	142	497021	39.726	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	249192	40.035	ng		99
41) Hexachlorocyclopentadiene	9.016	237	42528	34.918	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	156306	40.020	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 18:48:05 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
11/27/2024
Supervised By :mohammad ahmed
11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	172363	40.663	ng	97
46) 1,1'-Biphenyl	9.328	154	630797	39.737	ng	100
47) 2-Chloronaphthalene	9.357	162	481726	40.050	ng	99
48) 2-Nitroaniline	9.451	65	153300	39.707	ng	99
49) Acenaphthylene	9.769	152	730688	40.206	ng	100
50) Dimethylphthalate	9.628	163	554938	39.631	ng	100
51) 2,6-Dinitrotoluene	9.692	165	129116	40.657	ng	98
52) Acenaphthene	9.945	154	463893	40.173	ng	99
53) 3-Nitroaniline	9.869	138	126708	40.794	ng	95
54) 2,4-Dinitrophenol	9.975	184	54066	37.481	ng	99
55) Dibenzofuran	10.116	168	703450	39.938	ng	100
56) 4-Nitrophenol	10.039	139	80992	38.234	ng	90
57) 2,4-Dinitrotoluene	10.104	165	173064	41.004	ng	97
58) Fluorene	10.457	166	559305	39.561	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	136090	41.775	ng	95
60) Diethylphthalate	10.328	149	558054	39.225	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	276169	39.804	ng	99
62) 4-Nitroaniline	10.481	138	130860	40.170	ng	96
63) Azobenzene	10.610	77	535875	39.774	ng	98
65) 4,6-Dinitro-2-methylph...	10.510	198	83926	41.129	ng	98
66) n-Nitrosodiphenylamine	10.569	169	462410	39.157	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	162115	39.421	ng	98
68) Hexachlorobenzene	11.010	284	186412	39.147	ng	99
69) Atrazine	11.092	200	134171	40.387	ng	99
70) Pentachlorophenol	11.210	266	87978	41.979	ng	100
71) Phenanthrene	11.422	178	766734	39.944	ng	99
72) Anthracene	11.475	178	744369	39.643	ng	99
73) Carbazole	11.633	167	723289	40.042	ng	100
74) Di-n-butylphthalate	11.951	149	836498	40.112	ng	100
75) Fluoranthene	12.616	202	869668	41.729	ng	99
77) Benzidine	12.739	184	240586	33.872	ng	99
78) Pyrene	12.845	202	871645	38.588	ng	99
80) Butylbenzylphthalate	13.457	149	329616	40.507	ng	99
81) Benzo(a)anthracene	14.039	228	639698	39.557	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	184849	38.072	ng	100
83) Chrysene	14.074	228	583254	39.444	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	417403	40.623	ng	99
85) Di-n-octyl phthalate	14.645	149	593296	42.252	ng	98
87) Indeno(1,2,3-cd)pyrene	17.057	276	539566	39.075	ng	98
88) Benzo(b)fluoranthene	15.110	252	549051	41.254	ng	99
89) Benzo(k)fluoranthene	15.139	252	426772	36.644	ng	99
90) Benzo(a)pyrene	15.486	252	423923	39.175	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	441641	39.053	ng	99
92) Benzo(g,h,i)perylene	17.510	276	456904	39.594	ng	97

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

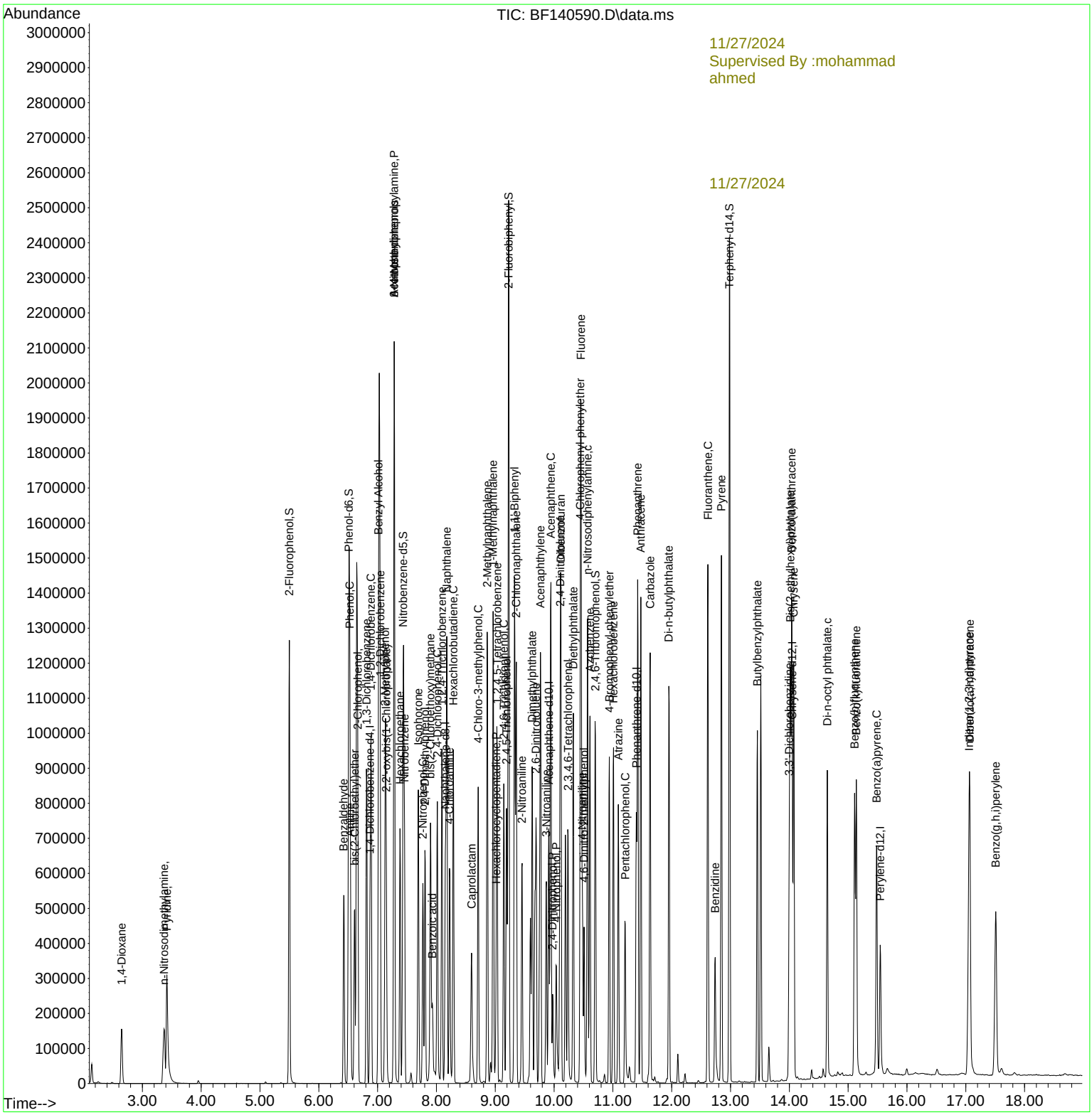
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 18:48:05 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



Sample Results: **BF140590.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
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Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 18:48:05 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	98	0.00
2		1,4-Dioxane	0.493	0.469	4.9	94	0.00
3		Pyridine	1.084	1.124	-3.7	92	0.00
4		n-Nitrosodimethylamine	0.637	0.569	10.7	86	-0.01
5	S	2-Fluorophenol	1.172	1.119	4.5	93	0.00
6		Aniline	1.091	1.234	-13.1	96	0.00
7	S	Phenol-d6	1.550	1.507	2.8	92	0.00
8		2-Chlorophenol	1.261	1.243	1.4	95	0.00
9		Benzaldehyde	0.820	0.779	5.0	103	0.00
10	C	Phenol	1.583	1.586	-0.2	93	0.00
11		bis(2-Chloroethyl)ether	1.211	1.180	2.6	93	0.00
12		1,3-Dichlorobenzene	1.417	1.382	2.5	97	0.00
13	C	1,4-Dichlorobenzene	1.435	1.399	2.5	96	0.00
14		1,2-Dichlorobenzene	1.344	1.313	2.3	95	0.00
15		Benzyl Alcohol	1.149	1.127	1.9	90	0.00
16		2,2'-oxybis(1-Chloropropane	1.431	1.423	0.6	95	0.00
17		2-Methylphenol	1.009	0.988	2.1	93	0.00
18		Hexachloroethane	0.536	0.520	3.0	95	0.00
19	P	n-Nitroso-di-n-propylamine	0.916	0.880	3.9	91	0.00
20		3+4-Methylphenols	1.298	1.252	3.5	91	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
22		Acetophenone	0.488	0.461	5.5	90	0.00
23	S	Nitrobenzene-d5	0.391	0.377	3.6	91	0.00
24		Nitrobenzene	0.404	0.386	4.5	91	0.00
25		Isophorone	0.652	0.631	3.2	90	0.00
26	C	2-Nitrophenol	0.179	0.180	-0.6	94	0.00
27		2,4-Dimethylphenol	0.214	0.218	-1.9	92	0.00
28		bis(2-Chloroethoxy)methane	0.397	0.394	0.8	94	0.00
29	C	2,4-Dichlorophenol	0.284	0.282	0.7	94	0.00
30		1,2,4-Trichlorobenzene	0.324	0.320	1.2	95	0.00
31		Naphthalene	1.030	1.017	1.3	95	0.00
32		Benzoic acid	0.164	0.179	-9.1	95	-0.01
33		4-Chloroaniline	0.308	0.331	-7.5	96	0.00
34	C	Hexachlorobutadiene	0.215	0.212	1.4	94	0.00
35		Caprolactam	0.088	0.090	-2.3	94	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.314	1.3	91	0.00
37		2-Methylnaphthalene	0.654	0.650	0.6	94	0.00
38		1-Methylnaphthalene	0.641	0.637	0.6	94	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	0.586	0.586	0.0	94	0.00
41	P	Hexachlorocyclopentadiene	0.107	0.100	6.5	79	0.00
42	S	2,4,6-Tribromophenol	0.214	0.210	1.9	88	0.00
43	C	2,4,6-Trichlorophenol	0.367	0.368	-0.3	91	0.00
44		2,4,5-Trichlorophenol	0.399	0.405	-1.5	91	0.00
45	S	2-Fluorobiphenyl	1.342	1.315	2.0	92	0.00
46		1,1'-Biphenyl	1.493	1.483	0.7	93	0.00
47		2-Chloronaphthalene	1.131	1.133	-0.2	93	0.00

Sample Results: **BF140590.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 18:48:05 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	0.361	0.6	89	0.00
49		Acenaphthylene	1.710	1.718	-0.5	94	0.00
50		Dimethylphthalate	1.317	1.305	0.9	91	0.00
51		2,6-Dinitrotoluene	0.299	0.304	-1.7	92	0.00
52	C	Acenaphthene	1.086	1.091	-0.5	93	0.00
53		3-Nitroaniline	0.292	0.298	-2.1	90	0.00
54	P	2,4-Dinitrophenol	0.122	0.127	-4.1	82	0.00
55		Dibenzofuran	1.657	1.654	0.2	93	0.00
56	P	4-Nitrophenol	0.199	0.190	4.5	83	0.00
57		2,4-Dinitrotoluene	0.397	0.407	-2.5	91	0.00
58		Fluorene	1.330	1.315	1.1	92	0.00
59		2,3,4,6-Tetrachlorophenol	0.306	0.320	-4.6	93	0.00
60		Diethylphthalate	1.338	1.312	1.9	91	0.00
61		4-Chlorophenyl-phenylether	0.653	0.649	0.6	92	0.00
62		4-Nitroaniline	0.306	0.308	-0.7	89	0.00
63		Azobenzene	1.267	1.260	0.6	93	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
65		4,6-Dinitro-2-methylphenol	0.102	0.105	-2.9	87	0.00
66	c	n-Nitrosodiphenylamine	0.591	0.579	2.0	91	0.00
67		4-Bromophenyl-phenylether	0.206	0.203	1.5	93	0.00
68		Hexachlorobenzene	0.238	0.233	2.1	91	0.00
69		Atrazine	0.166	0.168	-1.2	110	0.00
70	C	Pentachlorophenol	0.105	0.110	-4.8	87	0.00
71		Phenanthrene	0.961	0.960	0.1	93	0.00
72		Anthracene	0.940	0.932	0.9	92	0.00
73		Carbazole	0.905	0.906	-0.1	93	0.00
74		Di-n-butylphthalate	1.044	1.047	-0.3	93	0.00
75	C	Fluoranthene	1.044	1.089	-4.3	98	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77		Benzidine	0.581	0.492	15.3	87	0.00
78		Pyrene	1.849	1.784	3.5	98	0.00
79	S	Terphenyl-d14	1.284	1.204	6.2	96	-0.01
80		Butylbenzylphthalate	0.666	0.675	-1.4	101	0.00
81		Benzo(a)anthracene	1.324	1.309	1.1	104	0.00
82		3,3'-Dichlorobenzidine	0.397	0.378	4.8	94	0.00
83		Chrysene	1.211	1.194	1.4	101	0.00
84		Bis(2-ethylhexyl)phthalate	0.841	0.854	-1.5	105	0.00
85	c	Di-n-octyl phthalate	1.150	1.214	-5.6	109	0.01
86	I	Perylene-d12	1.000	1.000	0.0	100	0.00
87		Indeno(1,2,3-cd)pyrene	1.303	1.273	2.3	98	0.00
88		Benzo(b)fluoranthene	1.256	1.296	-3.2	109	0.00
89		Benzo(k)fluoranthene	1.099	1.007	8.4	92	0.00
90	C	Benzo(a)pyrene	1.021	1.000	2.1	100	0.01
91		Dibenzo(a,h)anthracene	1.067	1.042	2.3	98	0.00
92		Benzo(g,h,i)perylene	1.089	1.078	1.0	100	0.00

Sample Results: **BF140590.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 18:48:05 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: **BF140590.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 18:48:05 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	98	0.00
2		1,4-Dioxane	40.000	38.103	4.7	94	0.00
3		Pyridine	40.000	41.455	-3.6	92	0.00
4		n-Nitrosodimethylamine	40.000	35.685	10.8	86	-0.01
5	S	2-Fluorophenol	80.000	76.378	4.5	93	0.00
6		Aniline	40.000	45.250	-13.1	96	0.00
7	S	Phenol-d6	80.000	77.804	2.7	92	0.00
8		2-Chlorophenol	40.000	39.419	1.5	95	0.00
9		Benzaldehyde	40.000	37.990	5.0	103	0.00
10	C	Phenol	40.000	40.096	-0.2	93	0.00
11		bis(2-Chloroethyl)ether	40.000	38.975	2.6	93	0.00
12		1,3-Dichlorobenzene	40.000	39.006	2.5	97	0.00
13	C	1,4-Dichlorobenzene	40.000	38.992	2.5	96	0.00
14		1,2-Dichlorobenzene	40.000	39.061	2.3	95	0.00
15		Benzyl Alcohol	40.000	39.236	1.9	90	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	39.789	0.5	95	0.00
17		2-Methylphenol	40.000	39.166	2.1	93	0.00
18		Hexachloroethane	40.000	38.839	2.9	95	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.455	3.9	91	0.00
20		3+4-Methylphenols	40.000	38.595	3.5	91	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	94	0.00
22		Acetophenone	40.000	37.843	5.4	90	0.00
23	S	Nitrobenzene-d5	80.000	77.040	3.7	91	0.00
24		Nitrobenzene	40.000	38.171	4.6	91	0.00
25		Isophorone	40.000	38.707	3.2	90	0.00
26	C	2-Nitrophenol	40.000	40.253	-0.6	94	0.00
27		2,4-Dimethylphenol	40.000	40.621	-1.6	92	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.691	0.8	94	0.00
29	C	2,4-Dichlorophenol	40.000	39.714	0.7	94	0.00
30		1,2,4-Trichlorobenzene	40.000	39.440	1.4	95	0.00
31		Naphthalene	40.000	39.498	1.3	95	0.00
32		Benzoic acid	40.000	39.786	0.5	95	-0.01
33		4-Chloroaniline	40.000	42.887	-7.2	96	0.00
34	C	Hexachlorobutadiene	40.000	39.404	1.5	94	0.00
35		Caprolactam	40.000	41.047	-2.6	94	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.500	1.3	91	0.00
37		2-Methylnaphthalene	40.000	39.730	0.7	94	0.00
38		1-Methylnaphthalene	40.000	39.726	0.7	94	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.035	-0.1	94	0.00
41	P	Hexachlorocyclopentadiene	40.000	34.918	12.7	79	0.00
42	S	2,4,6-Tribromophenol	80.000	78.440	2.0	88	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.020	-0.1	91	0.00
44		2,4,5-Trichlorophenol	40.000	40.663	-1.7	91	0.00
45	S	2-Fluorobiphenyl	80.000	78.399	2.0	92	0.00
46		1,1'-Biphenyl	40.000	39.737	0.7	93	0.00
47		2-Chloronaphthalene	40.000	40.050	-0.1	93	0.00

Sample Results: **BF140590.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 18:48:05 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	39.707	0.7	89	0.00
49		Acenaphthylene	40.000	40.206	-0.5	94	0.00
50		Dimethylphthalate	40.000	39.631	0.9	91	0.00
51		2,6-Dinitrotoluene	40.000	40.657	-1.6	92	0.00
52	C	Acenaphthene	40.000	40.173	-0.4	93	0.00
53		3-Nitroaniline	40.000	40.794	-2.0	90	0.00
54	P	2,4-Dinitrophenol	40.000	37.481	6.3	82	0.00
55		Dibenzofuran	40.000	39.938	0.2	93	0.00
56	P	4-Nitrophenol	40.000	38.234	4.4	83	0.00
57		2,4-Dinitrotoluene	40.000	41.004	-2.5	91	0.00
58		Fluorene	40.000	39.561	1.1	92	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.775	-4.4	93	0.00
60		Diethylphthalate	40.000	39.225	1.9	91	0.00
61		4-Chlorophenyl-phenylether	40.000	39.804	0.5	92	0.00
62		4-Nitroaniline	40.000	40.170	-0.4	89	0.00
63		Azobenzene	40.000	39.774	0.6	93	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	91	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.129	-2.8	87	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.157	2.1	91	0.00
67		4-Bromophenyl-phenylether	40.000	39.421	1.4	93	0.00
68		Hexachlorobenzene	40.000	39.147	2.1	91	0.00
69		Atrazine	40.000	40.387	-1.0	110	0.00
70	C	Pentachlorophenol	40.000	41.979	-4.9	87	0.00
71		Phenanthrene	40.000	39.944	0.1	93	0.00
72		Anthracene	40.000	39.643	0.9	92	0.00
73		Carbazole	40.000	40.042	-0.1	93	0.00
74		Di-n-butylphthalate	40.000	40.112	-0.3	93	0.00
75	C	Fluoranthene	40.000	41.729	-4.3	98	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77		Benzidine	40.000	33.872	15.3	87	0.00
78		Pyrene	40.000	38.588	3.5	98	0.00
79	S	Terphenyl-d14	80.000	75.015	6.2	96	-0.01
80		Butylbenzylphthalate	40.000	40.507	-1.3	101	0.00
81		Benzo(a)anthracene	40.000	39.557	1.1	104	0.00
82		3,3'-Dichlorobenzidine	40.000	38.072	4.8	94	0.00
83		Chrysene	40.000	39.444	1.4	101	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.623	-1.6	105	0.00
85	c	Di-n-octyl phthalate	40.000	42.252	-5.6	109	0.01
86	I	Perylene-d12	20.000	20.000	0.0	100	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.075	2.3	98	0.00
88		Benzo(b)fluoranthene	40.000	41.254	-3.1	109	0.00
89		Benzo(k)fluoranthene	40.000	36.644	8.4	92	0.00
90	C	Benzo(a)pyrene	40.000	39.175	2.1	100	0.01
91		Dibenzo(a,h)anthracene	40.000	39.053	2.4	98	0.00
92		Benzo(g,h,i)perylene	40.000	39.594	1.0	100	0.00

Sample Results: **BF140590.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140590.D
Acq On : 25 Nov 2024 09:33
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 18:48:05 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: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG No.: P4921

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.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
Pyridine	1.084	1.248		15.1	
2-Fluorophenol	1.172	1.153		-1.6	
Phenol-d6	1.550	1.521		-1.9	
1,4-Dichlorobenzene	1.435	1.401		-2.4	20.0
2-Methylphenol	1.010	1.019		0.9	
3+4-Methylphenols	1.298	1.259		-3.0	
Nitrobenzene-d5	0.391	0.378		-3.3	
Hexachloroethane	0.536	0.521		-2.8	
Nitrobenzene	0.404	0.392		-3.0	
Hexachlorobutadiene	0.215	0.210		-2.3	20.0
2,4,6-Trichlorophenol	0.367	0.358		-2.5	20.0
2-Fluorobiphenyl	1.342	1.282		-4.5	
2,4,5-Trichlorophenol	0.399	0.395		-1.0	
2,4-Dinitrotoluene	0.397	0.389		-2.0	
2,4,6-Tribromophenol	0.214	0.206		-3.7	
Hexachlorobenzene	0.238	0.236		-0.8	
Pentachlorophenol	0.105	0.106		1.0	20.0
Terphenyl-d14	1.284	1.258		-2.0	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 16:13:33 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 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	106607	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	393427	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	218835	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	396344	20.000	ng	0.00
76) Chrysene-d12	14.051	240	217927	20.000	ng	0.00
86) Perylene-d12	15.551	264	192376	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	491503	78.663	ng	0.00
7) Phenol-d6	6.510	99	648459	78.504	ng	0.00
23) Nitrobenzene-d5	7.434	82	594260	77.261	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	180057	76.932	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1121902	76.385	ng	0.00
79) Terphenyl-d14	12.980	244	1096447	78.343	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.640	88	107772	41.024	ng	99
3) Pyridine	3.410	79	266084	46.035	ng	99
4) n-Nitrosodimethylamine	3.363	42	126830	37.334	ng	90
6) Aniline	6.534	93	266963	45.917	ng	94
8) 2-Chlorophenol	6.663	128	259569	38.614	ng	96
9) Benzaldehyde	6.422	77	180830	41.353	ng	99
10) Phenol	6.522	94	336793	39.924	ng	94
11) bis(2-Chloroethyl)ether	6.604	93	255585	39.593	ng	100
12) 1,3-Dichlorobenzene	6.810	146	294808	39.031	ng	100
13) 1,4-Dichlorobenzene	6.887	146	298643	39.049	ng	100
14) 1,2-Dichlorobenzene	7.040	146	279852	39.050	ng	99
15) Benzyl Alcohol	7.016	79	232661	37.981	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	304785	39.966	ng	84
17) 2-Methylphenol	7.128	107	217336	40.390	ng	95
18) Hexachloroethane	7.381	117	111096	38.893	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	186820	38.269	ng	99
20) 3+4-Methylphenols	7.281	107	268518	38.823	ng	96
22) Acetophenone	7.281	105	365107	38.065	ng	99
24) Nitrobenzene	7.457	77	308535	38.812	ng	96
25) Isophorone	7.692	82	503490	39.246	ng	100
26) 2-Nitrophenol	7.769	139	141776	40.245	ng	98
27) 2,4-Dimethylphenol	7.804	122	176239m	41.812	ng	
28) bis(2-Chloroethoxy)met...	7.898	93	309243	39.568	ng	99
29) 2,4-Dichlorophenol	8.016	162	223293	39.979	ng	98
30) 1,2,4-Trichlorobenzene	8.092	180	252061	39.526	ng	98
31) Naphthalene	8.175	128	797717	39.364	ng	99
32) Benzoic acid	7.934	122	132755	37.962	ng	100
33) 4-Chloroaniline	8.222	127	263806	43.479	ng	100
34) Hexachlorobutadiene	8.287	225	165629	39.213	ng	99
35) Caprolactam	8.592	113	69550	40.238	ng	100
36) 4-Chloro-3-methylphenol	8.710	107	246142	39.361	ng	99
37) 2-Methylnaphthalene	8.863	142	504190	39.171	ng	99
38) 1-Methylnaphthalene	8.963	142	500451	39.666	ng	99
40) 1,2,4,5-Tetrachloroben...	9.028	216	250880	39.161	ng	99
41) Hexachlorocyclopentadiene	9.016	237	46360	36.552	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	156633	38.964	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 16:13:33 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 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	172838	39.616	ng	97
46) 1,1'-Biphenyl	9.328	154	642257	39.310	ng	100
47) 2-Chloronaphthalene	9.357	162	486075	39.263	ng	98
48) 2-Nitroaniline	9.451	65	153653	38.667	ng	99
49) Acenaphthylene	9.769	152	731583	39.111	ng	100
50) Dimethylphthalate	9.628	163	551498	38.266	ng	100
51) 2,6-Dinitrotoluene	9.692	165	129715	39.685	ng	97
52) Acenaphthene	9.945	154	459493	38.661	ng	99
53) 3-Nitroaniline	9.863	138	123678	38.687	ng	100
54) 2,4-Dinitrophenol	9.975	184	53762	36.476	ng	96
55) Dibenzofuran	10.116	168	691740	38.157	ng	99
56) 4-Nitrophenol	10.039	139	76021	34.868	ng	91
57) 2,4-Dinitrotoluene	10.098	165	170311	39.205	ng	96
58) Fluorene	10.457	166	558411	38.375	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	137290	40.946	ng	94
60) Diethylphthalate	10.328	149	560563	38.281	ng	99
61) 4-Chlorophenyl-phenyle...	10.445	204	274540	38.445	ng	98
62) 4-Nitroaniline	10.480	138	128027	38.184	ng	95
63) Azobenzene	10.610	77	539858	38.931	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	86152	42.537	ng	98
66) n-Nitrosodiphenylamine	10.569	169	462263	39.439	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	162863	39.900	ng	96
68) Hexachlorobenzene	11.010	284	187402	39.651	ng	100
69) Atrazine	11.092	200	129628	39.313	ng	98
70) Pentachlorophenol	11.210	266	83757	40.265	ng	99
71) Phenanthrene	11.422	178	747251	39.222	ng	99
72) Anthracene	11.475	178	738198	39.611	ng	99
73) Carbazole	11.633	167	703386	39.233	ng	100
74) Di-n-butylphthalate	11.951	149	816492	39.448	ng	100
75) Fluoranthene	12.616	202	798194	38.587	ng	100
77) Benzidine	12.739	184	344350	54.347	ng	100
78) Pyrene	12.845	202	806670	40.033	ng	99
80) Butylbenzylphthalate	13.457	149	294831	40.617	ng	100
81) Benzo(a)anthracene	14.039	228	560182	38.832	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	174748	40.346	ng	99
83) Chrysene	14.080	228	527192	39.966	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	368655	40.221	ng	100
85) Di-n-octyl phthalate	14.651	149	501073	40.002	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	477561	38.092	ng	98
88) Benzo(b)fluoranthene	15.115	252	440892	36.487	ng	100
89) Benzo(k)fluoranthene	15.145	252	441576	41.760	ng	100
90) Benzo(a)pyrene	15.492	252	395447	40.250	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	391367	38.118	ng	99
92) Benzo(g,h,i)perylene	17.515	276	393138	37.523	ng	98

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

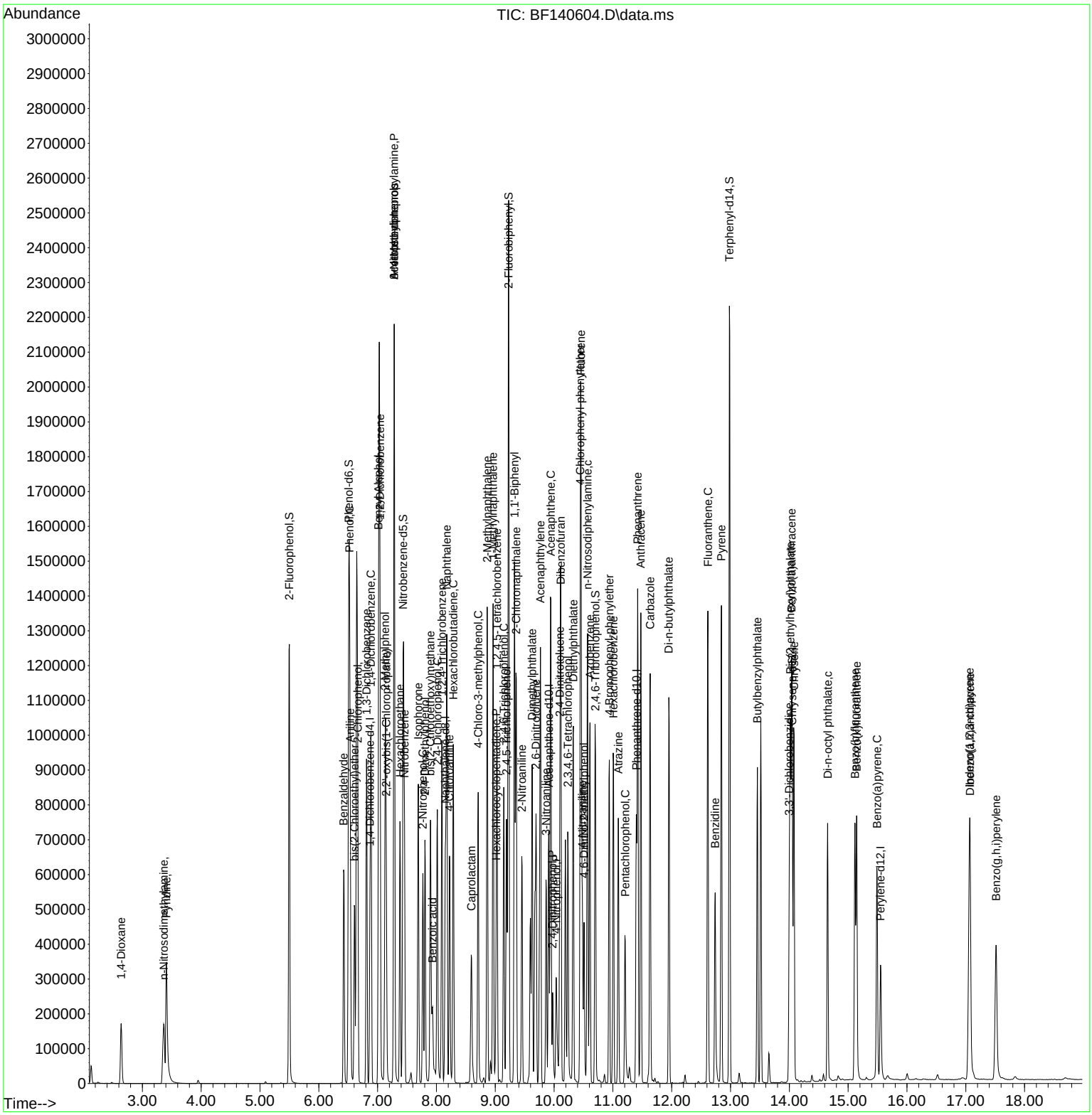
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 25 16:13:33 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 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

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



Sample Results: **BF140604.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 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 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	0.505	-2.4	102	-0.01
3		Pyridine	1.084	1.248	-15.1	104	-0.01
4		n-Nitrosodimethylamine	0.637	0.595	6.6	91	-0.02
5	S	2-Fluorophenol	1.172	1.153	1.6	97	0.00
6		Aniline	1.091	1.252	-14.8	99	0.00
7	S	Phenol-d6	1.550	1.521	1.9	94	0.00
8		2-Chlorophenol	1.261	1.217	3.5	94	0.00
9		Benzaldehyde	0.820	0.848	-3.4	114	0.00
10	C	Phenol	1.583	1.580	0.2	94	0.00
11		bis(2-Chloroethyl)ether	1.211	1.199	1.0	95	0.00
12		1,3-Dichlorobenzene	1.417	1.383	2.4	98	0.00
13	C	1,4-Dichlorobenzene	1.435	1.401	2.4	97	0.00
14		1,2-Dichlorobenzene	1.344	1.313	2.3	96	0.00
15		Benzyl Alcohol	1.149	1.091	5.0	88	0.00
16		2,2'-oxybis(1-Chloropropane	1.431	1.429	0.1	97	0.00
17		2-Methylphenol	1.009	1.019	-1.0	97	0.00
18		Hexachloroethane	0.536	0.521	2.8	96	0.00
19	P	n-Nitroso-di-n-propylamine	0.916	0.876	4.4	92	0.00
20		3+4-Methylphenols	1.298	1.259	3.0	93	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	95	0.00
22		Acetophenone	0.488	0.464	4.9	92	0.00
23	S	Nitrobenzene-d5	0.391	0.378	3.3	92	0.00
24		Nitrobenzene	0.404	0.392	3.0	93	0.00
25		Isophorone	0.652	0.640	1.8	92	0.00
26	C	2-Nitrophenol	0.179	0.180	-0.6	95	0.00
27		2,4-Dimethylphenol	0.214	0.224	-4.7	95	0.00
28		bis(2-Chloroethoxy)methane	0.397	0.393	1.0	94	0.00
29	C	2,4-Dichlorophenol	0.284	0.284	0.0	96	0.00
30		1,2,4-Trichlorobenzene	0.324	0.320	1.2	96	0.00
31		Naphthalene	1.030	1.014	1.6	95	0.00
32		Benzoic acid	0.164	0.169	-3.0	91	0.00
33		4-Chloroaniline	0.308	0.335	-8.8	98	0.00
34	C	Hexachlorobutadiene	0.215	0.210	2.3	95	0.00
35		Caprolactam	0.088	0.088	0.0	93	-0.01
36	C	4-Chloro-3-methylphenol	0.318	0.313	1.6	91	0.00
37		2-Methylnaphthalene	0.654	0.641	2.0	94	0.00
38		1-Methylnaphthalene	0.641	0.636	0.8	95	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00
40		1,2,4,5-Tetrachlorobenzene	0.586	0.573	2.2	95	0.00
41	P	Hexachlorocyclopentadiene	0.107	0.106	0.9	87	0.00
42	S	2,4,6-Tribromophenol	0.214	0.206	3.7	89	0.00
43	C	2,4,6-Trichlorophenol	0.367	0.358	2.5	91	0.00
44		2,4,5-Trichlorophenol	0.399	0.395	1.0	91	0.00
45	S	2-Fluorobiphenyl	1.342	1.282	4.5	93	0.00
46		1,1'-Biphenyl	1.493	1.467	1.7	95	0.00
47		2-Chloronaphthalene	1.131	1.111	1.8	94	0.00

Sample Results: **BF140604.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 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 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	0.351	3.3	89	0.00
49		Acenaphthylene	1.710	1.672	2.2	94	0.00
50		Dimethylphthalate	1.317	1.260	4.3	91	0.00
51		2,6-Dinitrotoluene	0.299	0.296	1.0	92	0.00
52	C	Acenaphthene	1.086	1.050	3.3	92	0.00
53		3-Nitroaniline	0.292	0.283	3.1	88	0.00
54	P	2,4-Dinitrophenol	0.122	0.123	-0.8	82	0.00
55		Dibenzofuran	1.657	1.581	4.6	91	0.00
56	P	4-Nitrophenol	0.199	0.174	12.6	78	0.00
57		2,4-Dinitrotoluene	0.397	0.389	2.0	90	0.00
58		Fluorene	1.330	1.276	4.1	92	0.00
59		2,3,4,6-Tetrachlorophenol	0.306	0.314	-2.6	94	0.00
60		Diethylphthalate	1.338	1.281	4.3	91	0.00
61		4-Chlorophenyl-phenylether	0.653	0.627	4.0	92	0.00
62		4-Nitroaniline	0.306	0.293	4.2	87	0.00
63		Azobenzene	1.267	1.233	2.7	93	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
65		4,6-Dinitro-2-methylphenol	0.102	0.109	-6.9	90	0.00
66	c	n-Nitrosodiphenylamine	0.591	0.583	1.4	91	0.00
67		4-Bromophenyl-phenylether	0.206	0.205	0.5	93	0.00
68		Hexachlorobenzene	0.238	0.236	0.8	92	0.00
69		Atrazine	0.166	0.164	1.2	106	0.00
70	C	Pentachlorophenol	0.105	0.106	-1.0	82	0.00
71		Phenanthrene	0.961	0.943	1.9	90	0.00
72		Anthracene	0.940	0.931	1.0	91	0.00
73		Carbazole	0.905	0.887	2.0	90	0.00
74		Di-n-butylphthalate	1.044	1.030	1.3	91	0.00
75	C	Fluoranthene	1.044	1.007	3.5	90	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	91	0.00
77		Benzidine	0.581	0.790	-36.0#	125	0.00
78		Pyrene	1.849	1.851	-0.1	91	0.00
79	S	Terphenyl-d14	1.284	1.258	2.0	89	-0.01
80		Butylbenzylphthalate	0.666	0.676	-1.5	91	0.00
81		Benzo(a)anthracene	1.324	1.285	2.9	91	0.00
82		3,3'-Dichlorobenzidine	0.397	0.401	-1.0	88	0.00
83		Chrysene	1.211	1.210	0.1	92	0.00
84		Bis(2-ethylhexyl)phthalate	0.841	0.846	-0.6	92	0.00
85	c	Di-n-octyl phthalate	1.150	1.150	0.0	92	0.02
86	I	Perylene-d12	1.000	1.000	0.0	91	0.01
87		Indeno(1,2,3-cd)pyrene	1.303	1.241	4.8	87	0.01
88		Benzo(b)fluoranthene	1.256	1.146	8.8	88	0.01
89		Benzo(k)fluoranthene	1.099	1.148	-4.5	95	0.01
90	C	Benzo(a)pyrene	1.021	1.028	-0.7	93	0.02
91		Dibenzo(a,h)anthracene	1.067	1.017	4.7	87	0.01
92		Benzo(g,h,i)perylene	1.089	1.022	6.2	86	0.00

Sample Results: **BF140604.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 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 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: **BF140604.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 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 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	41.024	-2.6	102	-0.01
3		Pyridine	40.000	46.035	-15.1	104	-0.01
4		n-Nitrosodimethylamine	40.000	37.334	6.7	91	-0.02
5	S	2-Fluorophenol	80.000	78.663	1.7	97	0.00
6		Aniline	40.000	45.917	-14.8	99	0.00
7	S	Phenol-d6	80.000	78.504	1.9	94	0.00
8		2-Chlorophenol	40.000	38.614	3.5	94	0.00
9		Benzaldehyde	40.000	41.353	-3.4	114	0.00
10	C	Phenol	40.000	39.924	0.2	94	0.00
11		bis(2-Chloroethyl)ether	40.000	39.593	1.0	95	0.00
12		1,3-Dichlorobenzene	40.000	39.031	2.4	98	0.00
13	C	1,4-Dichlorobenzene	40.000	39.049	2.4	97	0.00
14		1,2-Dichlorobenzene	40.000	39.050	2.4	96	0.00
15		Benzyl Alcohol	40.000	37.981	5.0	88	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	39.966	0.1	97	0.00
17		2-Methylphenol	40.000	40.390	-1.0	97	0.00
18		Hexachloroethane	40.000	38.893	2.8	96	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.269	4.3	92	0.00
20		3+4-Methylphenols	40.000	38.823	2.9	93	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	95	0.00
22		Acetophenone	40.000	38.065	4.8	92	0.00
23	S	Nitrobenzene-d5	80.000	77.261	3.4	92	0.00
24		Nitrobenzene	40.000	38.812	3.0	93	0.00
25		Isophorone	40.000	39.246	1.9	92	0.00
26	C	2-Nitrophenol	40.000	40.245	-0.6	95	0.00
27		2,4-Dimethylphenol	40.000	41.812	-4.5	95	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.568	1.1	94	0.00
29	C	2,4-Dichlorophenol	40.000	39.979	0.1	96	0.00
30		1,2,4-Trichlorobenzene	40.000	39.526	1.2	96	0.00
31		Naphthalene	40.000	39.364	1.6	95	0.00
32		Benzoic acid	40.000	37.962	5.1	91	0.00
33		4-Chloroaniline	40.000	43.479	-8.7	98	0.00
34	C	Hexachlorobutadiene	40.000	39.213	2.0	95	0.00
35		Caprolactam	40.000	40.238	-0.6	93	-0.01
36	C	4-Chloro-3-methylphenol	40.000	39.361	1.6	91	0.00
37		2-Methylnaphthalene	40.000	39.171	2.1	94	0.00
38		1-Methylnaphthalene	40.000	39.666	0.8	95	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	93	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.161	2.1	95	0.00
41	P	Hexachlorocyclopentadiene	40.000	36.552	8.6	87	0.00
42	S	2,4,6-Tribromophenol	80.000	76.932	3.8	89	0.00
43	C	2,4,6-Trichlorophenol	40.000	38.964	2.6	91	0.00
44		2,4,5-Trichlorophenol	40.000	39.616	1.0	91	0.00
45	S	2-Fluorobiphenyl	80.000	76.385	4.5	93	0.00
46		1,1'-Biphenyl	40.000	39.310	1.7	95	0.00
47		2-Chloronaphthalene	40.000	39.263	1.8	94	0.00

Sample Results: **BF140604.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 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 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	38.667	3.3	89	0.00
49		Acenaphthylene	40.000	39.111	2.2	94	0.00
50		Dimethylphthalate	40.000	38.266	4.3	91	0.00
51		2,6-Dinitrotoluene	40.000	39.685	0.8	92	0.00
52	C	Acenaphthene	40.000	38.661	3.3	92	0.00
53		3-Nitroaniline	40.000	38.687	3.3	88	0.00
54	P	2,4-Dinitrophenol	40.000	36.476	8.8	82	0.00
55		Dibenzofuran	40.000	38.157	4.6	91	0.00
56	P	4-Nitrophenol	40.000	34.868	12.8	78	0.00
57		2,4-Dinitrotoluene	40.000	39.205	2.0	90	0.00
58		Fluorene	40.000	38.375	4.1	92	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.946	-2.4	94	0.00
60		Diethylphthalate	40.000	38.281	4.3	91	0.00
61		4-Chlorophenyl-phenylether	40.000	38.445	3.9	92	0.00
62		4-Nitroaniline	40.000	38.184	4.5	87	0.00
63		Azobenzene	40.000	38.931	2.7	93	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	91	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.537	-6.3	90	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.439	1.4	91	0.00
67		4-Bromophenyl-phenylether	40.000	39.900	0.3	93	0.00
68		Hexachlorobenzene	40.000	39.651	0.9	92	0.00
69		Atrazine	40.000	39.313	1.7	106	0.00
70	C	Pentachlorophenol	40.000	40.265	-0.7	82	0.00
71		Phenanthrene	40.000	39.222	1.9	90	0.00
72		Anthracene	40.000	39.611	1.0	91	0.00
73		Carbazole	40.000	39.233	1.9	90	0.00
74		Di-n-butylphthalate	40.000	39.448	1.4	91	0.00
75	C	Fluoranthene	40.000	38.587	3.5	90	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	91	0.00
77		Benzidine	40.000	54.347	-35.9#	125	0.00
78		Pyrene	40.000	40.033	-0.1	91	0.00
79	S	Terphenyl-d14	80.000	78.343	2.1	89	-0.01
80		Butylbenzylphthalate	40.000	40.617	-1.5	91	0.00
81		Benzo(a)anthracene	40.000	38.832	2.9	91	0.00
82		3,3'-Dichlorobenzidine	40.000	40.346	-0.9	88	0.00
83		Chrysene	40.000	39.966	0.1	92	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.221	-0.6	92	0.00
85	c	Di-n-octyl phthalate	40.000	40.002	-0.0	92	0.02
86	I	Perylene-d12	20.000	20.000	0.0	91	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	38.092	4.8	87	0.01
88		Benzo(b)fluoranthene	40.000	36.487	8.8	88	0.01
89		Benzo(k)fluoranthene	40.000	41.760	-4.4	95	0.01
90	C	Benzo(a)pyrene	40.000	40.250	-0.6	93	0.02
91		Dibenzo(a,h)anthracene	40.000	38.118	4.7	87	0.01
92		Benzo(g,h,i)perylene	40.000	37.523	6.2	86	0.00

Sample Results: **BF140604.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 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 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: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG No.: P4921

Instrument ID: BNA_F Calibration Date/Time: 11/27/2024 08:47

Lab File ID: BF140655.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
Pyridine	1.084	1.166		7.6	
2-Fluorophenol	1.172	1.138		-2.9	
Phenol-d6	1.550	1.502		-3.1	
1,4-Dichlorobenzene	1.435	1.411		-1.7	20.0
2-Methylphenol	1.010	0.990		-2.0	
3+4-Methylphenols	1.298	1.258		-3.1	
Nitrobenzene-d5	0.391	0.379		-3.1	
Hexachloroethane	0.536	0.525		-2.1	
Nitrobenzene	0.404	0.388		-4.0	
Hexachlorobutadiene	0.215	0.210		-2.3	20.0
2,4,6-Trichlorophenol	0.367	0.354		-3.5	20.0
2-Fluorobiphenyl	1.342	1.300		-3.1	
2,4,5-Trichlorophenol	0.399	0.396		-0.8	
2,4-Dinitrotoluene	0.397	0.398		0.3	
2,4,6-Tribromophenol	0.214	0.207		-3.3	
Hexachlorobenzene	0.238	0.234		-1.7	
Pentachlorophenol	0.105	0.102		-2.9	20.0
Terphenyl-d14	1.284	1.162		-9.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 10:18:19 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 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	98372	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	362566	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	198240	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	372253	20.000	ng	0.00
76) Chrysene-d12	14.051	240	233810	20.000	ng	0.00
86) Perylene-d12	15.545	264	185431	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	447884	77.683	ng	0.00
7) Phenol-d6	6.510	99	590834	77.515	ng	0.00
23) Nitrobenzene-d5	7.439	82	549682	77.548	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	164468	77.572	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1030793	77.473	ng	0.00
79) Terphenyl-d14	12.986	244	1087150	72.402	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.628	88	97713	40.309	ng	100
3) Pyridine	3.404	79	229308	42.993	ng	98
4) n-Nitrosodimethylamine	3.357	42	117090	37.353	ng	97
6) Aniline	6.534	93	252482	47.062	ng	98
8) 2-Chlorophenol	6.663	128	244137	39.359	ng	97
9) Benzaldehyde	6.428	77	147229	36.487	ng	99
10) Phenol	6.528	94	311697	40.043	ng	99
11) bis(2-Chloroethyl)ether	6.610	93	232668	39.060	ng	99
12) 1,3-Dichlorobenzene	6.810	146	272084	39.038	ng	99
13) 1,4-Dichlorobenzene	6.886	146	277637	39.341	ng	99
14) 1,2-Dichlorobenzene	7.045	146	258646	39.113	ng	99
15) Benzyl Alcohol	7.016	79	221455	39.178	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	276553	39.299	ng	87
17) 2-Methylphenol	7.128	107	194703	39.213	ng	95
18) Hexachloroethane	7.381	117	103335	39.205	ng	97
19) n-Nitroso-di-n-propyla...	7.286	70	168431	37.390	ng	96
20) 3+4-Methylphenols	7.281	107	247563	38.790	ng	97
22) Acetophenone	7.281	105	337247	38.154	ng	99
24) Nitrobenzene	7.457	77	281298	38.398	ng	98
25) Isophorone	7.692	82	454899	38.477	ng	100
26) 2-Nitrophenol	7.769	139	129051	39.751	ng	99
27) 2,4-Dimethylphenol	7.810	122	161193m	41.498	ng	
28) bis(2-Chloroethoxy)met...	7.898	93	282257	39.189	ng	99
29) 2,4-Dichlorophenol	8.016	162	203490	39.535	ng	98
30) 1,2,4-Trichlorobenzene	8.092	180	227721	38.749	ng	100
31) Naphthalene	8.175	128	727083	38.933	ng	99
32) Benzoic acid	7.933	122	119868	37.340	ng	98
33) 4-Chloroaniline	8.228	127	242132	43.304	ng	99
34) Hexachlorobutadiene	8.286	225	152343	39.137	ng	99
35) Caprolactam	8.598	113	61289	38.477	ng	96
36) 4-Chloro-3-methylphenol	8.710	107	225652	39.156	ng	99
37) 2-Methylnaphthalene	8.863	142	460666	38.836	ng	99
38) 1-Methylnaphthalene	8.963	142	453930	39.041	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	227183	39.146	ng	98
41) Hexachlorocyclopentadiene	9.016	237	34965	31.653	ng	93
43) 2,4,6-Trichlorophenol	9.145	196	140196	38.498	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 10:18:19 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 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	156982	39.720	ng	99
46) 1,1'-Biphenyl	9.328	154	582359	39.347	ng	99
47) 2-Chloronaphthalene	9.357	162	445700	39.742	ng	98
48) 2-Nitroaniline	9.457	65	140121	38.925	ng	97
49) Acenaphthylene	9.769	152	670744	39.584	ng	100
50) Dimethylphthalate	9.627	163	512646	39.265	ng	100
51) 2,6-Dinitrotoluene	9.698	165	116729	39.422	ng	94
52) Acenaphthene	9.945	154	419986	39.008	ng	99
53) 3-Nitroaniline	9.869	138	120888	41.743	ng	94
54) 2,4-Dinitrophenol	9.980	184	51476	38.107	ng	97
55) Dibenzofuran	10.116	168	631455	38.450	ng	99
56) 4-Nitrophenol	10.039	139	73424	37.175	ng	96
57) 2,4-Dinitrotoluene	10.104	165	157643	40.059	ng	98
58) Fluorene	10.463	166	511985	38.840	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	122006	40.168	ng	96
60) Diethylphthalate	10.327	149	502276	37.864	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	249747	38.606	ng	98
62) 4-Nitroaniline	10.486	138	122391	40.295	ng	95
63) Azobenzene	10.610	77	480325	38.236	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	82905	43.583	ng	98
66) n-Nitrosodiphenylamine	10.569	169	424207	38.535	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	149132	38.901	ng	97
68) Hexachlorobenzene	11.010	284	174217	39.247	ng	99
69) Atrazine	11.092	200	117066	37.801	ng	99
70) Pentachlorophenol	11.210	266	75779	38.787	ng	100
71) Phenanthrene	11.427	178	697324	38.970	ng	99
72) Anthracene	11.474	178	691379	39.499	ng	100
73) Carbazole	11.633	167	684417	40.646	ng	100
74) Di-n-butylphthalate	11.957	149	751428	38.654	ng	100
75) Fluoranthene	12.616	202	800583	41.207	ng	100
77) Benzidine	12.739	184	283827	41.752	ng	99
78) Pyrene	12.845	202	811462	37.535	ng	99
80) Butylbenzylphthalate	13.457	149	299688	38.481	ng	99
81) Benzo(a)anthracene	14.039	228	607444	39.247	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	180450	38.833	ng	99
83) Chrysene	14.080	228	564834	39.911	ng	99
84) Bis(2-ethylhexyl)phtha...	14.015	149	393797	40.045	ng	100
85) Di-n-octyl phthalate	14.639	149	553979	41.221	ng	98
87) Indeno(1,2,3-cd)pyrene	17.062	276	460959	38.145	ng	99
88) Benzo(b)fluoranthene	15.109	252	503639	43.241	ng	98
89) Benzo(k)fluoranthene	15.139	252	390181	38.282	ng	100
90) Benzo(a)pyrene	15.486	252	378501	39.968	ng	100
91) Dibenzo(a,h)anthracene	17.074	278	374408	37.832	ng	99
92) Benzo(g,h,i)perylene	17.515	276	389700	38.588	ng	98

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

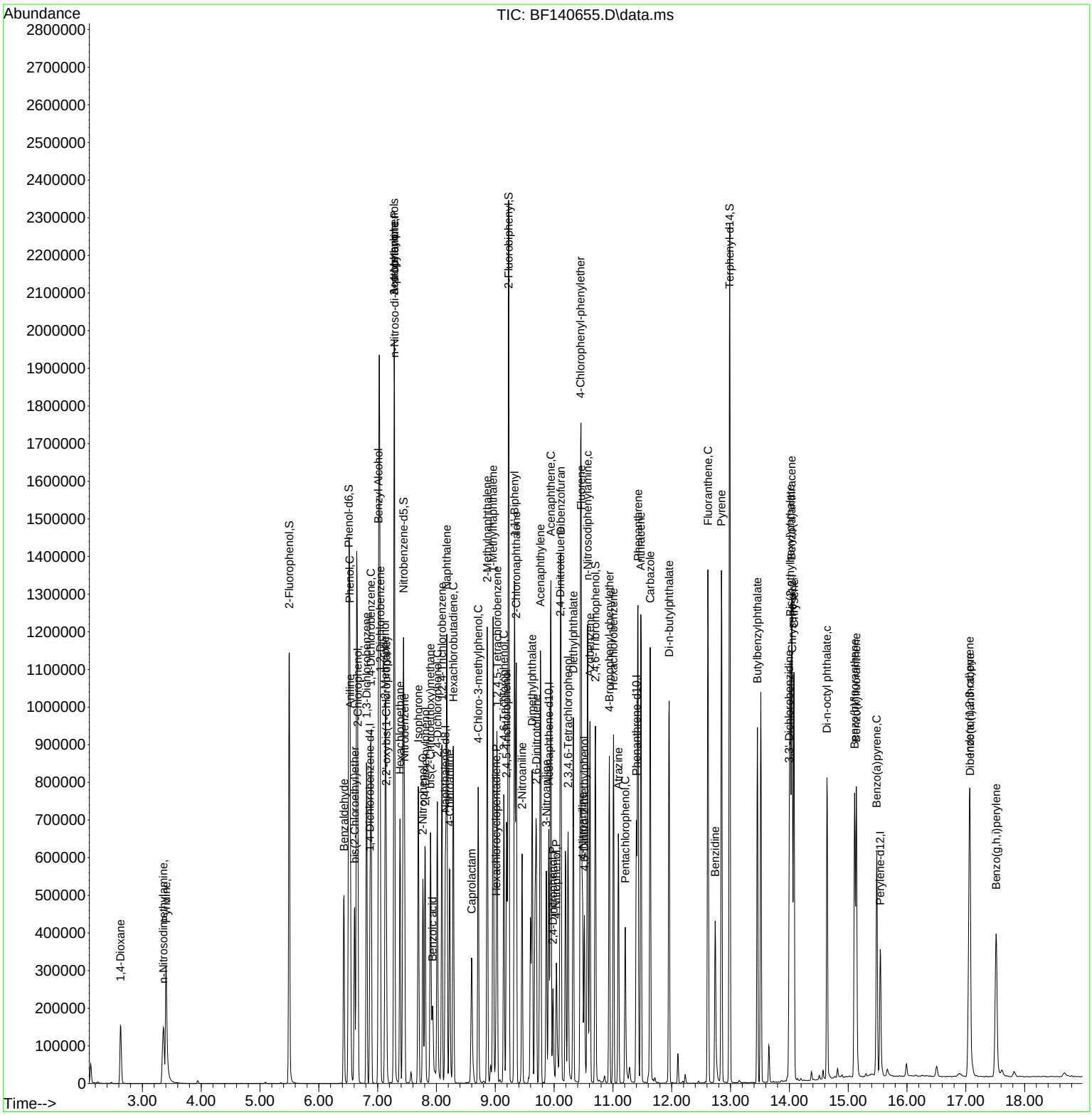
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 10:18:19 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 11/29/2024
Supervised By :mohammad ahmed 11/29/2024



Sample Results: **BF140655.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 27 10:18:19 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	91	0.00
2		1,4-Dioxane	0.493	0.497	-0.8	93	-0.02
3		Pyridine	1.084	1.166	-7.6	89	-0.02
4		n-Nitrosodimethylamine	0.637	0.595	6.6	84	-0.02
5	S	2-Fluorophenol	1.172	1.138	2.9	89	0.00
6		Aniline	1.091	1.283	-17.6	94	0.00
7	S	Phenol-d6	1.550	1.502	3.1	86	0.00
8		2-Chlorophenol	1.261	1.241	1.6	88	0.00
9		Benzaldehyde	0.820	0.748	8.8	93	0.00
10	C	Phenol	1.583	1.584	-0.1	87	0.00
11		bis(2-Chloroethyl)ether	1.211	1.183	2.3	87	0.00
12		1,3-Dichlorobenzene	1.417	1.383	2.4	90	0.00
13	C	1,4-Dichlorobenzene	1.435	1.411	1.7	90	0.00
14		1,2-Dichlorobenzene	1.344	1.315	2.2	89	0.00
15		Benzyl Alcohol	1.149	1.126	2.0	84	0.00
16		2,2'-oxybis(1-Chloropropane	1.431	1.406	1.7	88	0.00
17		2-Methylphenol	1.009	0.990	1.9	87	0.00
18		Hexachloroethane	0.536	0.525	2.1	89	0.00
19	P	n-Nitroso-di-n-propylamine	0.916	0.856	6.6	83	0.00
20		3+4-Methylphenols	1.298	1.258	3.1	85	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
22		Acetophenone	0.488	0.465	4.7	85	0.00
23	S	Nitrobenzene-d5	0.391	0.379	3.1	85	0.00
24		Nitrobenzene	0.404	0.388	4.0	85	0.00
25		Isophorone	0.652	0.627	3.8	83	0.00
26	C	2-Nitrophenol	0.179	0.178	0.6	87	0.00
27		2,4-Dimethylphenol	0.214	0.222	-3.7	87	0.00
28		bis(2-Chloroethoxy)methane	0.397	0.389	2.0	86	0.00
29	C	2,4-Dichlorophenol	0.284	0.281	1.1	87	0.00
30		1,2,4-Trichlorobenzene	0.324	0.314	3.1	87	0.00
31		Naphthalene	1.030	1.003	2.6	87	0.00
32		Benzoic acid	0.164	0.165	-0.6	82	0.00
33		4-Chloroaniline	0.308	0.334	-8.4	90	0.00
34	C	Hexachlorobutadiene	0.215	0.210	2.3	87	0.00
35		Caprolactam	0.088	0.085	3.4	82	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.311	2.2	83	0.00
37		2-Methylnaphthalene	0.654	0.635	2.9	86	0.00
38		1-Methylnaphthalene	0.641	0.626	2.3	86	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00
40		1,2,4,5-Tetrachlorobenzene	0.586	0.573	2.2	86	0.00
41	P	Hexachlorocyclopentadiene	0.107	0.088	17.8	65	0.00
42	S	2,4,6-Tribromophenol	0.214	0.207	3.3	81	0.00
43	C	2,4,6-Trichlorophenol	0.367	0.354	3.5	82	0.00
44		2,4,5-Trichlorophenol	0.399	0.396	0.8	83	0.00
45	S	2-Fluorobiphenyl	1.342	1.300	3.1	85	0.00
46		1,1'-Biphenyl	1.493	1.469	1.6	86	0.00
47		2-Chloronaphthalene	1.131	1.124	0.6	86	0.00

Sample Results: **BF140655.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 27 10:18:19 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	0.353	2.8	81	0.00
49		Acenaphthylene	1.710	1.692	1.1	86	0.00
50		Dimethylphthalate	1.317	1.293	1.8	84	0.00
51		2,6-Dinitrotoluene	0.299	0.294	1.7	83	0.00
52	C	Acenaphthene	1.086	1.059	2.5	84	0.00
53		3-Nitroaniline	0.292	0.305	-4.5	86	0.00
54	P	2,4-Dinitrophenol	0.122	0.130	-6.6	79	0.00
55		Dibenzofuran	1.657	1.593	3.9	83	0.00
56	P	4-Nitrophenol	0.199	0.185	7.0	76	0.00
57		2,4-Dinitrotoluene	0.397	0.398	-0.3	83	0.00
58		Fluorene	1.330	1.291	2.9	84	0.00
59		2,3,4,6-Tetrachlorophenol	0.306	0.308	-0.7	83	0.00
60		Diethylphthalate	1.338	1.267	5.3	82	0.00
61		4-Chlorophenyl-phenylether	0.653	0.630	3.5	83	0.00
62		4-Nitroaniline	0.306	0.309	-1.0	84	0.00
63		Azobenzene	1.267	1.211	4.4	83	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	0.102	0.111	-8.8	86	0.00
66	c	n-Nitrosodiphenylamine	0.591	0.570	3.6	84	0.00
67		4-Bromophenyl-phenylether	0.206	0.200	2.9	85	0.00
68		Hexachlorobenzene	0.238	0.234	1.7	85	0.00
69		Atrazine	0.166	0.157	5.4	96	0.00
70	C	Pentachlorophenol	0.105	0.102	2.9	75	0.00
71		Phenanthrene	0.961	0.937	2.5	84	0.00
72		Anthracene	0.940	0.929	1.2	85	0.00
73		Carbazole	0.905	0.919	-1.5	88	0.00
74		Di-n-butylphthalate	1.044	1.009	3.4	84	0.00
75	C	Fluoranthene	1.044	1.075	-3.0	90	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	98	0.00
77		Benzidine	0.581	0.607	-4.5	103	0.00
78		Pyrene	1.849	1.735	6.2	91	0.00
79	S	Terphenyl-d14	1.284	1.162	9.5	89	0.00
80		Butylbenzylphthalate	0.666	0.641	3.8	92	0.00
81		Benzo(a)anthracene	1.324	1.299	1.9	99	0.00
82		3,3'-Dichlorobenzidine	0.397	0.386	2.8	91	0.00
83		Chrysene	1.211	1.208	0.2	98	0.00
84		Bis(2-ethylhexyl)phthalate	0.841	0.842	-0.1	99	0.00
85	c	Di-n-octyl phthalate	1.150	1.185	-3.0	102	0.00
86	I	Perylene-d12	1.000	1.000	0.0	88	0.00
87		Indeno(1,2,3-cd)pyrene	1.303	1.243	4.6	84	0.01
88		Benzo(b)fluoranthene	1.256	1.358	-8.1	100	0.00
89		Benzo(k)fluoranthene	1.099	1.052	4.3	84	0.00
90	C	Benzo(a)pyrene	1.021	1.021	0.0	89	0.01
91		Dibenzo(a,h)anthracene	1.067	1.010	5.3	83	0.01
92		Benzo(g,h,i)perylene	1.089	1.051	3.5	85	0.00

Sample Results: **BF140655.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 27 10:18:19 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: **BF140655.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 27 10:18:19 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	91	0.00
2		1,4-Dioxane	40.000	40.309	-0.8	93	-0.02
3		Pyridine	40.000	42.993	-7.5	89	-0.02
4		n-Nitrosodimethylamine	40.000	37.353	6.6	84	-0.02
5	S	2-Fluorophenol	80.000	77.683	2.9	89	0.00
6		Aniline	40.000	47.062	-17.7	94	0.00
7	S	Phenol-d6	80.000	77.515	3.1	86	0.00
8		2-Chlorophenol	40.000	39.359	1.6	88	0.00
9		Benzaldehyde	40.000	36.487	8.8	93	0.00
10	C	Phenol	40.000	40.043	-0.1	87	0.00
11		bis(2-Chloroethyl)ether	40.000	39.060	2.3	87	0.00
12		1,3-Dichlorobenzene	40.000	39.038	2.4	90	0.00
13	C	1,4-Dichlorobenzene	40.000	39.341	1.6	90	0.00
14		1,2-Dichlorobenzene	40.000	39.113	2.2	89	0.00
15		Benzyl Alcohol	40.000	39.178	2.1	84	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	39.299	1.8	88	0.00
17		2-Methylphenol	40.000	39.213	2.0	87	0.00
18		Hexachloroethane	40.000	39.205	2.0	89	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.390	6.5	83	0.00
20		3+4-Methylphenols	40.000	38.790	3.0	85	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	88	0.00
22		Acetophenone	40.000	38.154	4.6	85	0.00
23	S	Nitrobenzene-d5	80.000	77.548	3.1	85	0.00
24		Nitrobenzene	40.000	38.398	4.0	85	0.00
25		Isophorone	40.000	38.477	3.8	83	0.00
26	C	2-Nitrophenol	40.000	39.751	0.6	87	0.00
27		2,4-Dimethylphenol	40.000	41.498	-3.7	87	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.189	2.0	86	0.00
29	C	2,4-Dichlorophenol	40.000	39.535	1.2	87	0.00
30		1,2,4-Trichlorobenzene	40.000	38.749	3.1	87	0.00
31		Naphthalene	40.000	38.933	2.7	87	0.00
32		Benzoic acid	40.000	37.340	6.6	82	0.00
33		4-Chloroaniline	40.000	43.304	-8.3	90	0.00
34	C	Hexachlorobutadiene	40.000	39.137	2.2	87	0.00
35		Caprolactam	40.000	38.477	3.8	82	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.156	2.1	83	0.00
37		2-Methylnaphthalene	40.000	38.836	2.9	86	0.00
38		1-Methylnaphthalene	40.000	39.041	2.4	86	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	85	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.146	2.1	86	0.00
41	P	Hexachlorocyclopentadiene	40.000	31.653	20.9	65	0.00
42	S	2,4,6-Tribromophenol	80.000	77.572	3.0	81	0.00
43	C	2,4,6-Trichlorophenol	40.000	38.498	3.8	82	0.00
44		2,4,5-Trichlorophenol	40.000	39.720	0.7	83	0.00
45	S	2-Fluorobiphenyl	80.000	77.473	3.2	85	0.00
46		1,1'-Biphenyl	40.000	39.347	1.6	86	0.00
47		2-Chloronaphthalene	40.000	39.742	0.6	86	0.00

Sample Results: **BF140655.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 27 10:18:19 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	38.925	2.7	81	0.00
49		Acenaphthylene	40.000	39.584	1.0	86	0.00
50		Dimethylphthalate	40.000	39.265	1.8	84	0.00
51		2,6-Dinitrotoluene	40.000	39.422	1.4	83	0.00
52	C	Acenaphthene	40.000	39.008	2.5	84	0.00
53		3-Nitroaniline	40.000	41.743	-4.4	86	0.00
54	P	2,4-Dinitrophenol	40.000	38.107	4.7	79	0.00
55		Dibenzofuran	40.000	38.450	3.9	83	0.00
56	P	4-Nitrophenol	40.000	37.175	7.1	76	0.00
57		2,4-Dinitrotoluene	40.000	40.059	-0.1	83	0.00
58		Fluorene	40.000	38.840	2.9	84	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.168	-0.4	83	0.00
60		Diethylphthalate	40.000	37.864	5.3	82	0.00
61		4-Chlorophenyl-phenylether	40.000	38.606	3.5	83	0.00
62		4-Nitroaniline	40.000	40.295	-0.7	84	0.00
63		Azobenzene	40.000	38.236	4.4	83	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.583	-9.0	86	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.535	3.7	84	0.00
67		4-Bromophenyl-phenylether	40.000	38.901	2.7	85	0.00
68		Hexachlorobenzene	40.000	39.247	1.9	85	0.00
69		Atrazine	40.000	37.801	5.5	96	0.00
70	C	Pentachlorophenol	40.000	38.787	3.0	75	0.00
71		Phenanthrene	40.000	38.970	2.6	84	0.00
72		Anthracene	40.000	39.499	1.3	85	0.00
73		Carbazole	40.000	40.646	-1.6	88	0.00
74		Di-n-butylphthalate	40.000	38.654	3.4	84	0.00
75	C	Fluoranthene	40.000	41.207	-3.0	90	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	98	0.00
77		Benzidine	40.000	41.752	-4.4	103	0.00
78		Pyrene	40.000	37.535	6.2	91	0.00
79	S	Terphenyl-d14	80.000	72.402	9.5	89	0.00
80		Butylbenzylphthalate	40.000	38.481	3.8	92	0.00
81		Benzo(a)anthracene	40.000	39.247	1.9	99	0.00
82		3,3'-Dichlorobenzidine	40.000	38.833	2.9	91	0.00
83		Chrysene	40.000	39.911	0.2	98	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.045	-0.1	99	0.00
85	c	Di-n-octyl phthalate	40.000	41.221	-3.1	102	0.00
86	I	Perylene-d12	20.000	20.000	0.0	88	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.145	4.6	84	0.01
88		Benzo(b)fluoranthene	40.000	43.241	-8.1	100	0.00
89		Benzo(k)fluoranthene	40.000	38.282	4.3	84	0.00
90	C	Benzo(a)pyrene	40.000	39.968	0.1	89	0.01
91		Dibenzo(a,h)anthracene	40.000	37.832	5.4	83	0.01
92		Benzo(g,h,i)perylene	40.000	38.588	3.5	85	0.00

Sample Results: **BF140655.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140655.D
Acq On : 27 Nov 2024 08:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 27 10:18:19 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

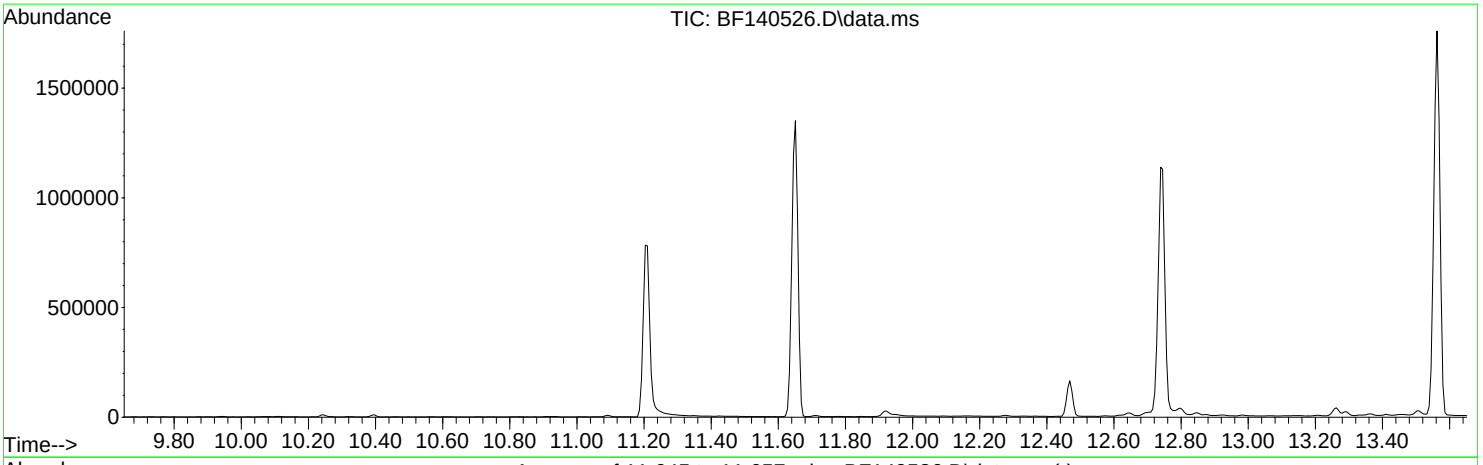
Sample Results: **BF140526.D**

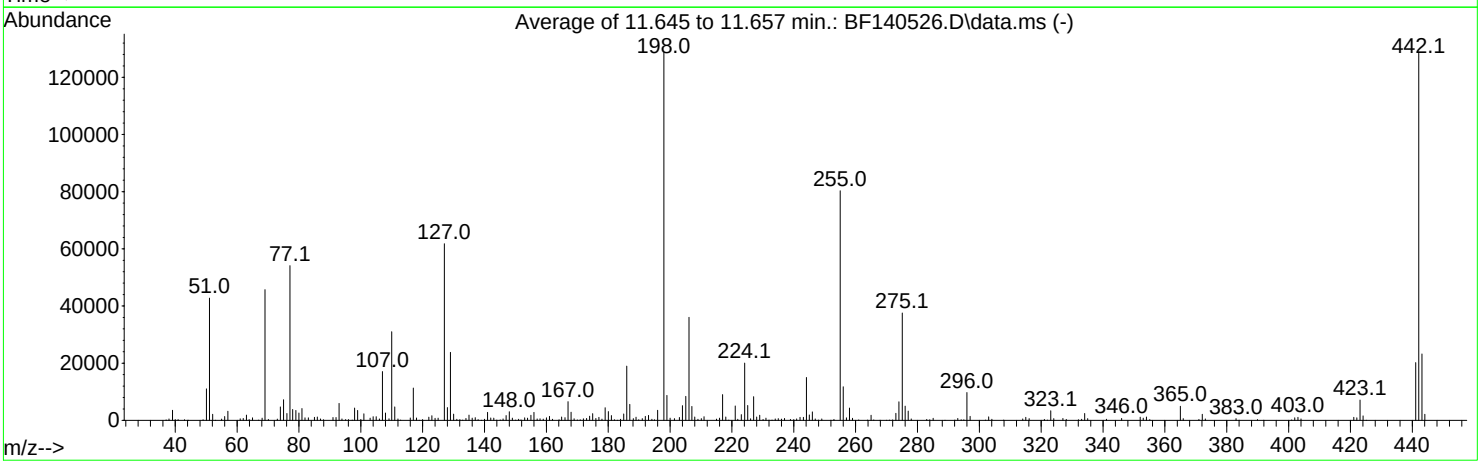
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

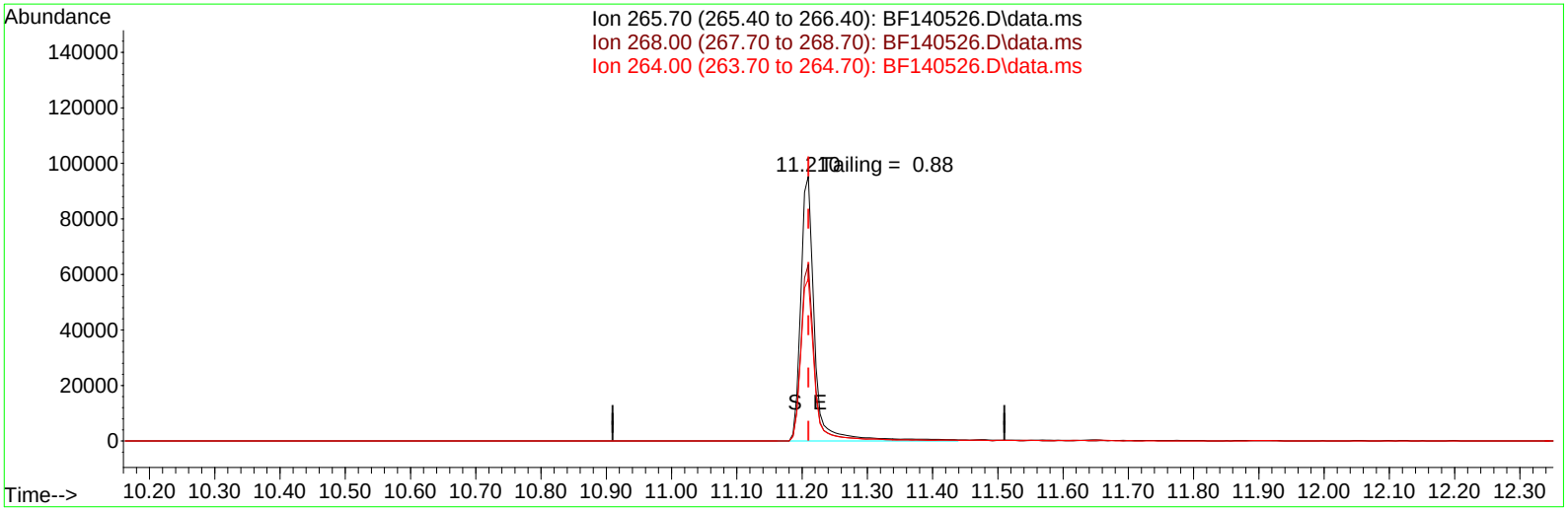
Quantitation Report (Qedit)

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

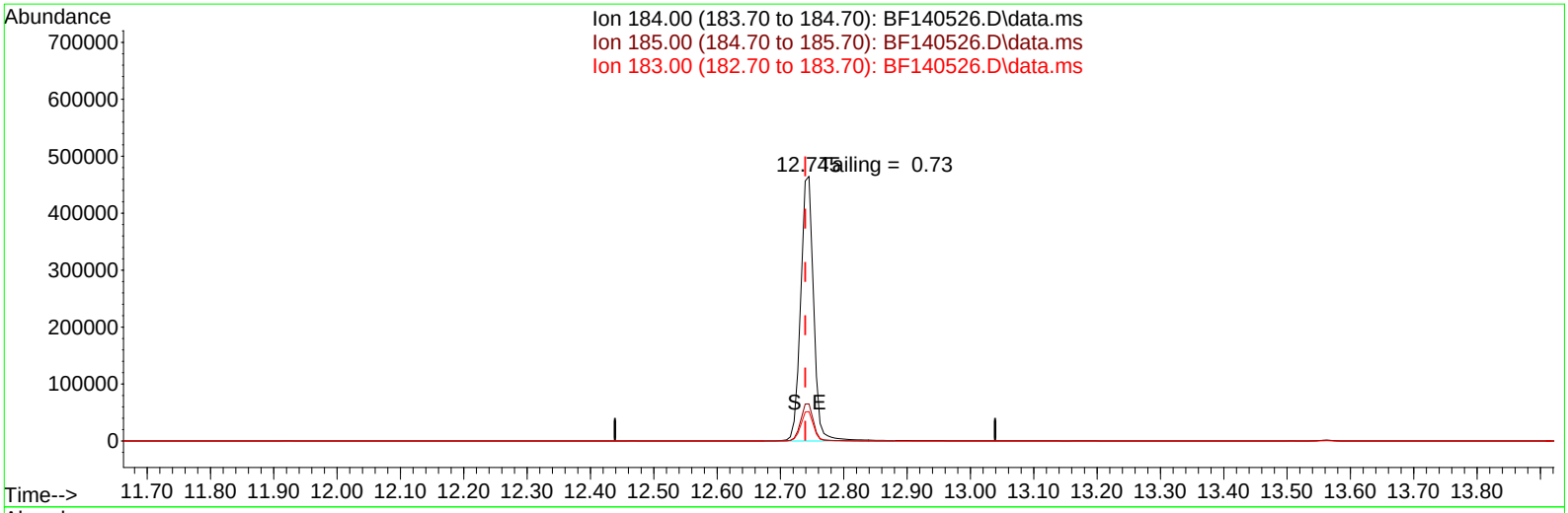


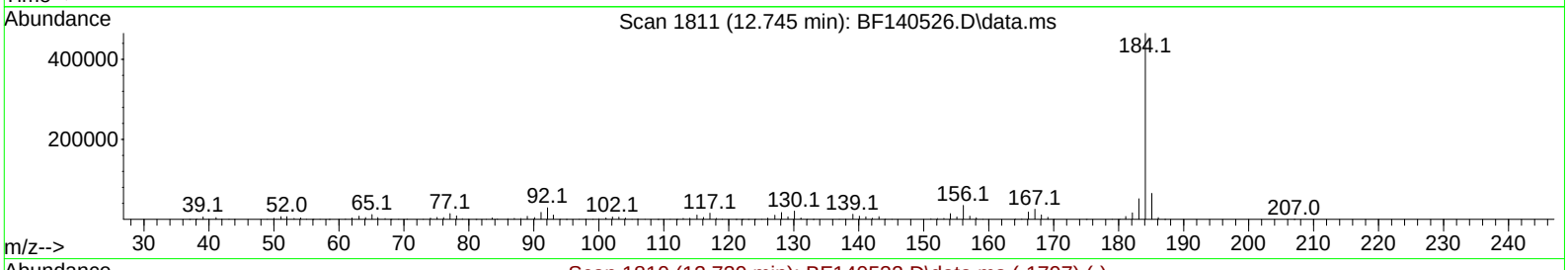
Sample Results: **BF140526.D**

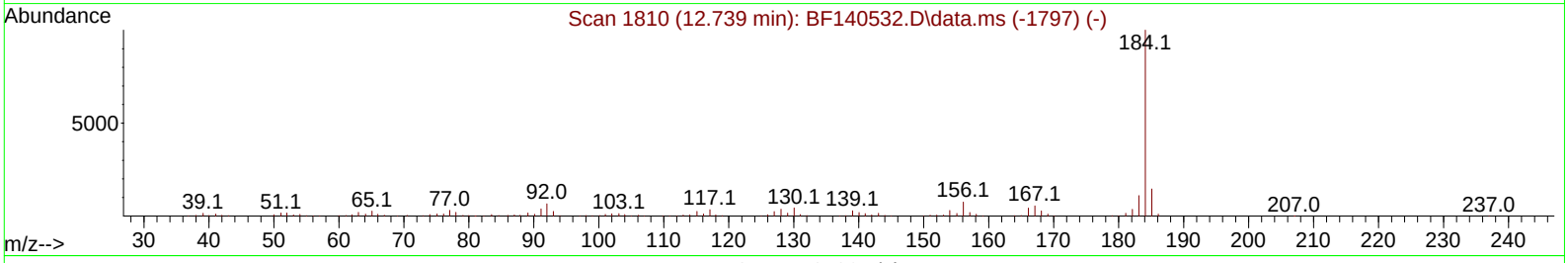
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

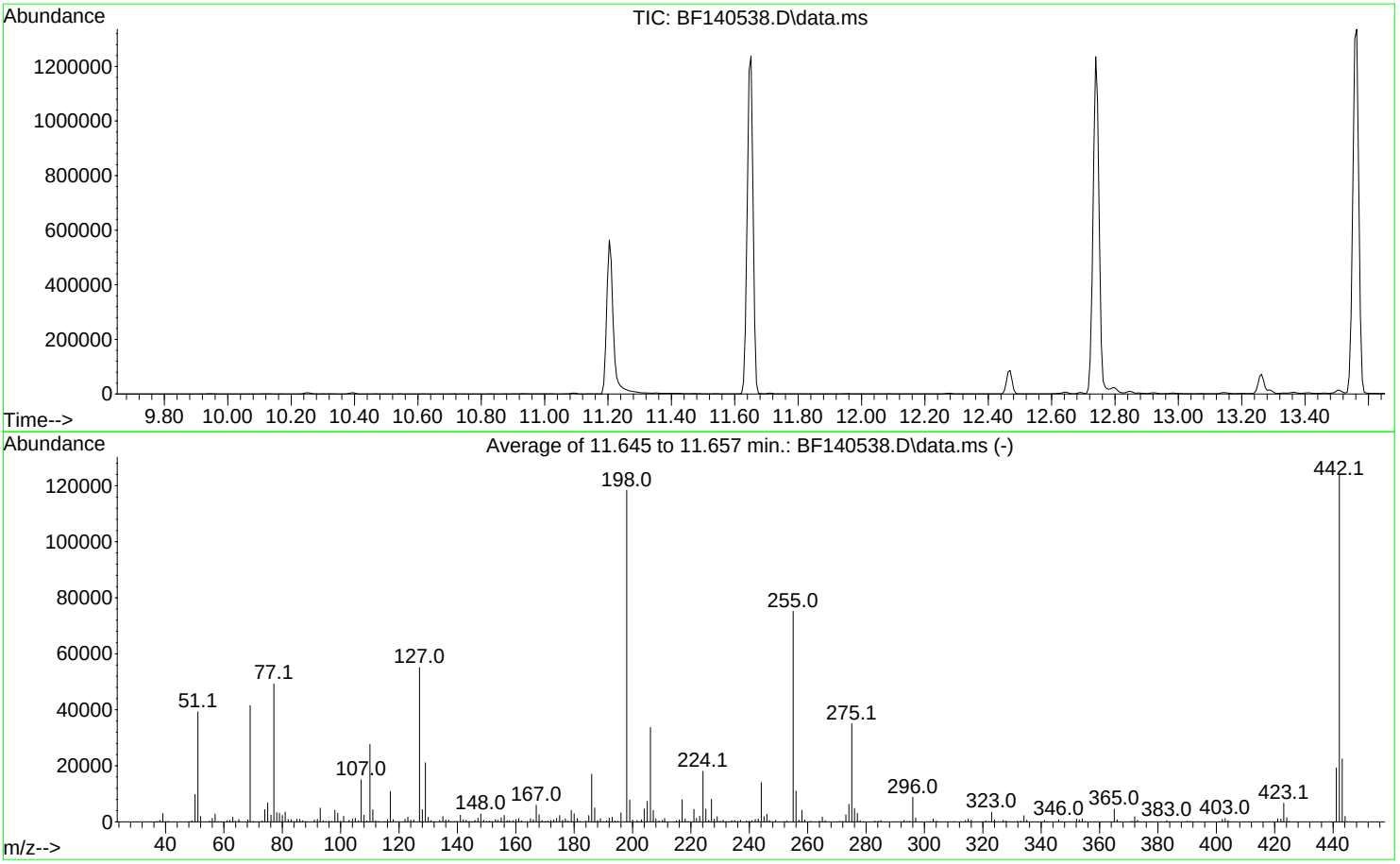
Sample Results: **BF140538.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140538.D
Acq On : 21 Nov 2024 16:27
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	33.2	39277	PASS
68	69	0.00	2	1.9	779	PASS
69	198	0.00	100	35.1	41536	PASS
70	69	0.00	2	0.6	240	PASS
127	198	10	80	46.5	55053	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	118333	PASS
199	198	5	9	6.6	7774	PASS
275	198	10	60	29.6	35048	PASS
365	198	1	100	3.8	4545	PASS
441	198	0.01	100	16.3	19261	PASS
442	442	50	100	100.0	124011	PASS
443	442	15	24	18.1	22475	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/21/2024	BNA_F	BF140536.D
Compound Name	**Response**	**Retention Time**
DDT	345993	13.563
DDD	23422	13.263
DDE	1044	12.922
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
24466	370459	6.60

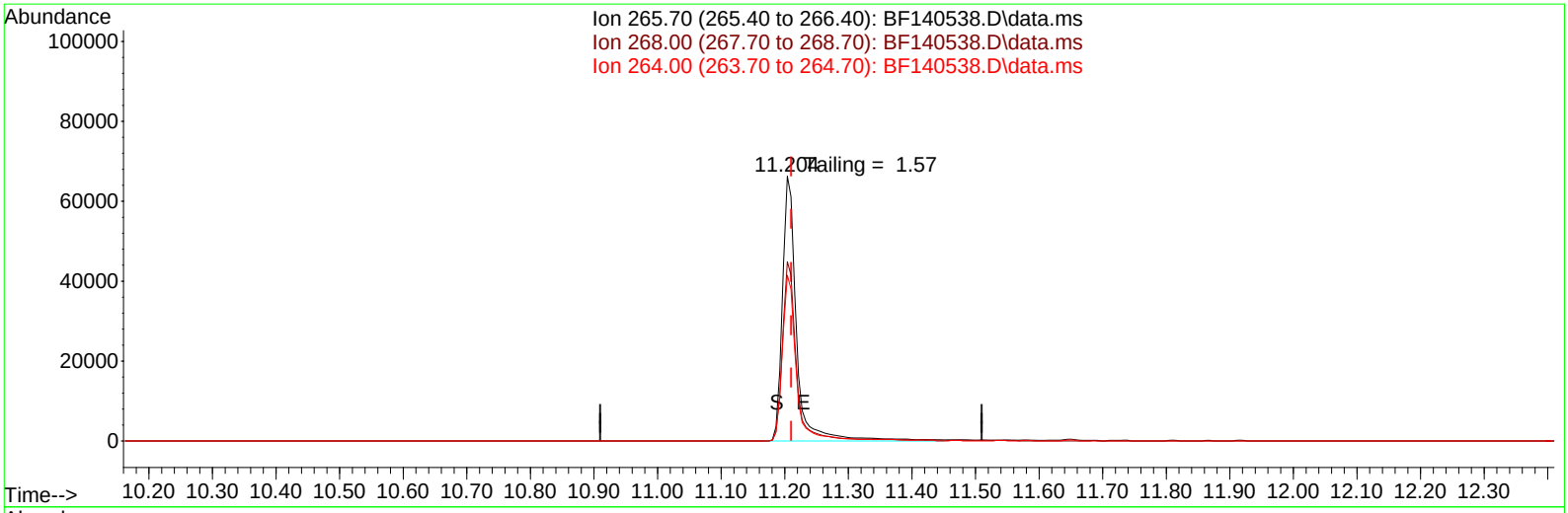
Instrument :
BNA_F
ClientSampleId :
DFTPP

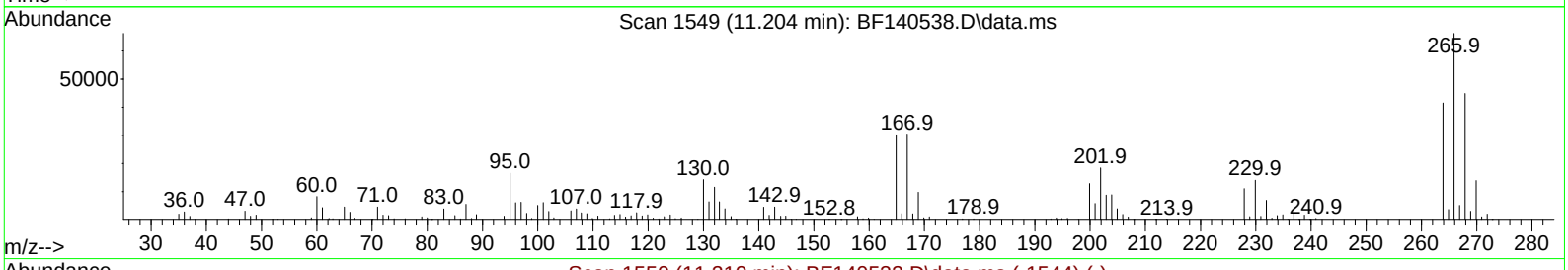
Sample Results: **BF140538.D**

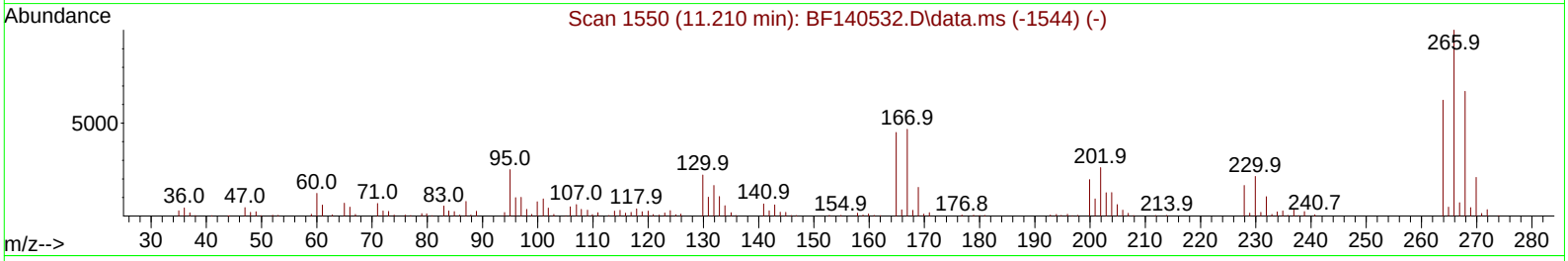
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140538.D
Acq On : 21 Nov 2024 16:27
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 21 16:59:21 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: BF140538.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 29910.91 ng

response 102823

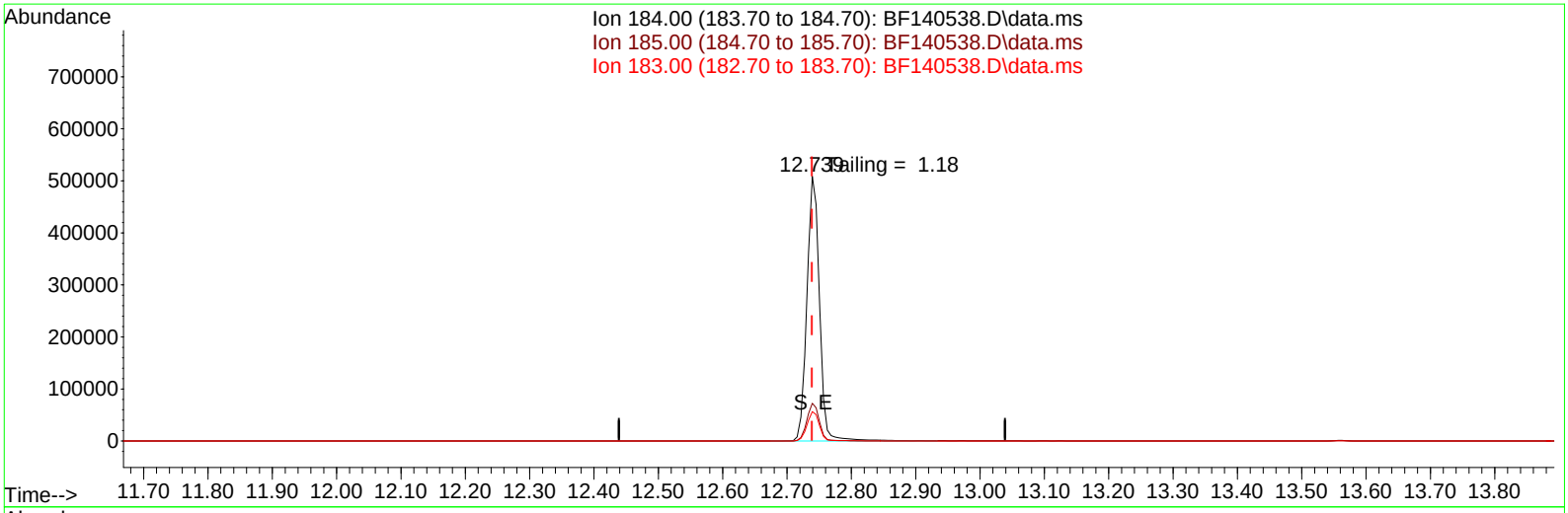
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.75
264.00	62.30	62.61
0.00	0.00	0.00

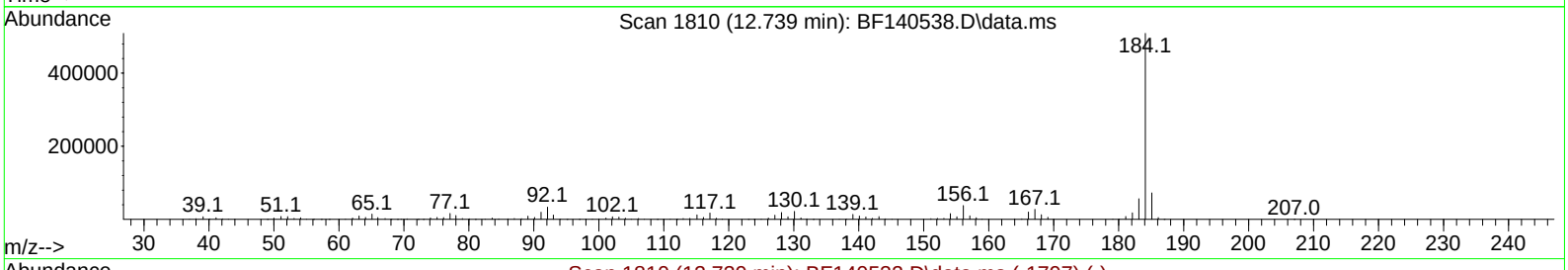
Sample Results: **BF140538.D**

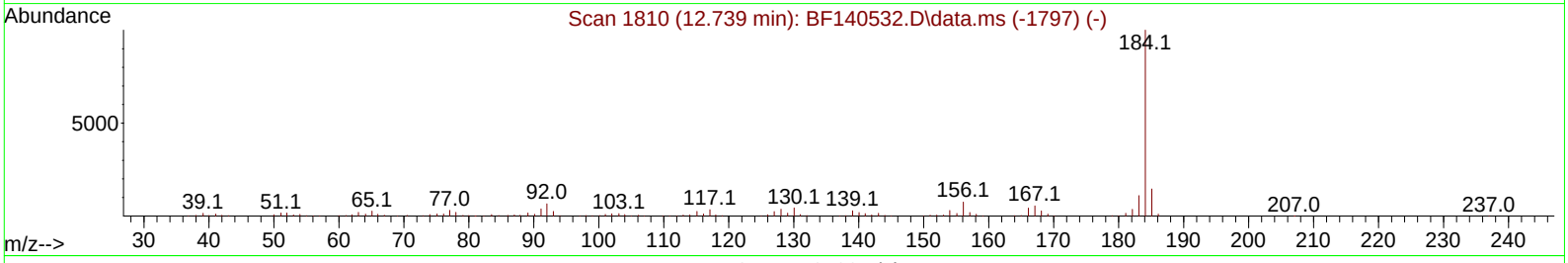
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140538.D
Acq On : 21 Nov 2024 16:27
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 21 16:59:21 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: BF140538.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 64322.88 ng

response 691956

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.28
183.00	11.00	11.13
0.00	0.00	0.00

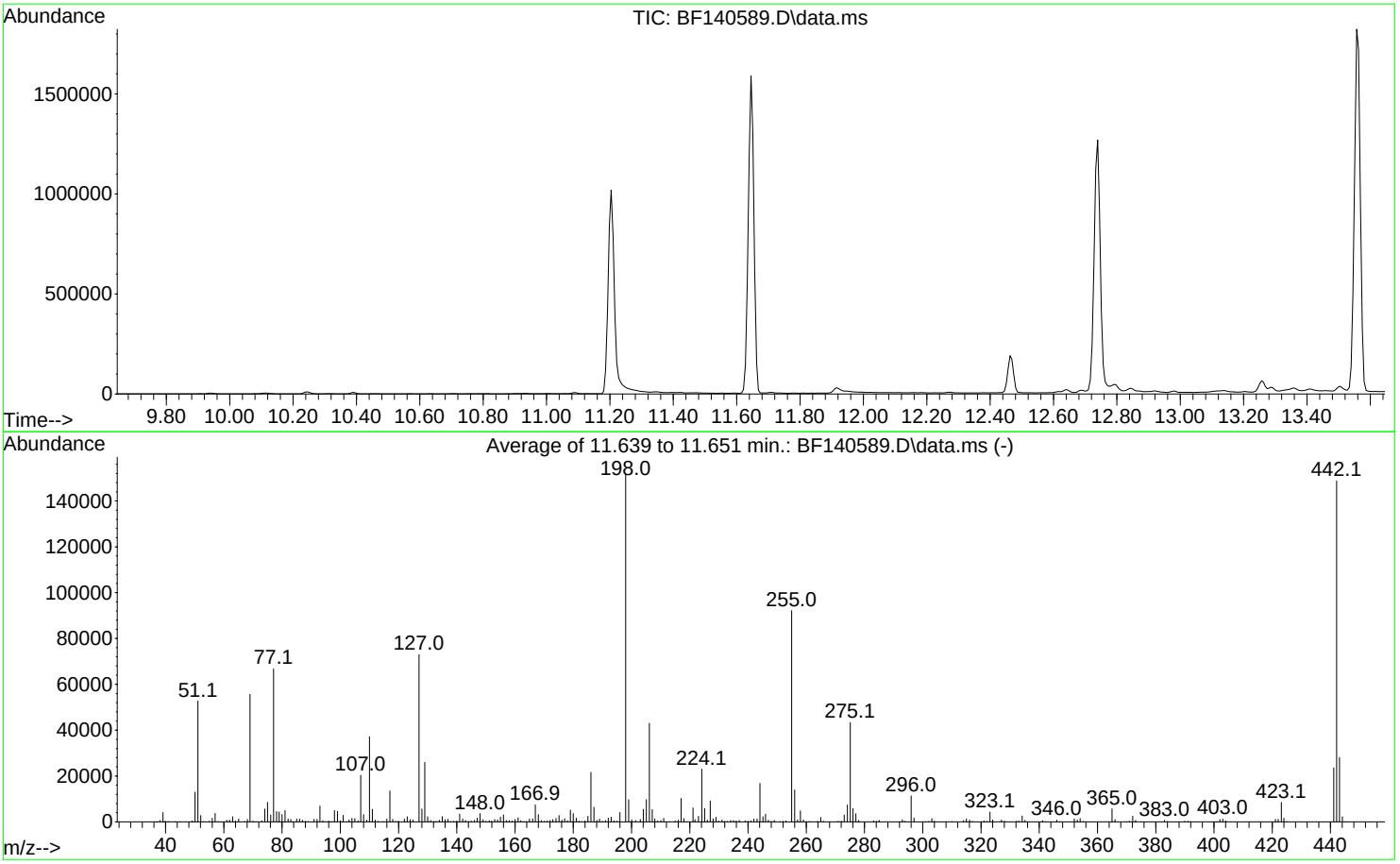
Sample Results: **BF140589.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140589.D
Acq On : 25 Nov 2024 09:07
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 1616

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.8	52725	PASS
68	69	0.00	2	1.9	1053	PASS
69	198	0.00	100	36.7	55652	PASS
70	69	0.00	2	0.6	343	PASS
127	198	10	80	48.2	73005	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	151552	PASS
199	198	5	9	6.4	9710	PASS
275	198	10	60	28.6	43365	PASS
365	198	1	100	3.7	5678	PASS
441	198	0.01	100	15.5	23530	PASS
442	442	50	100	100.0	148813	PASS
443	442	15	24	18.9	28083	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/25/2024	BNA_F	BF140589.D
Compound Name	**Response**	**Retention Time**
DDT	468664	13.557
DDD	19968	13.257
DDE	1731	12.922
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
21699	490363	4.43

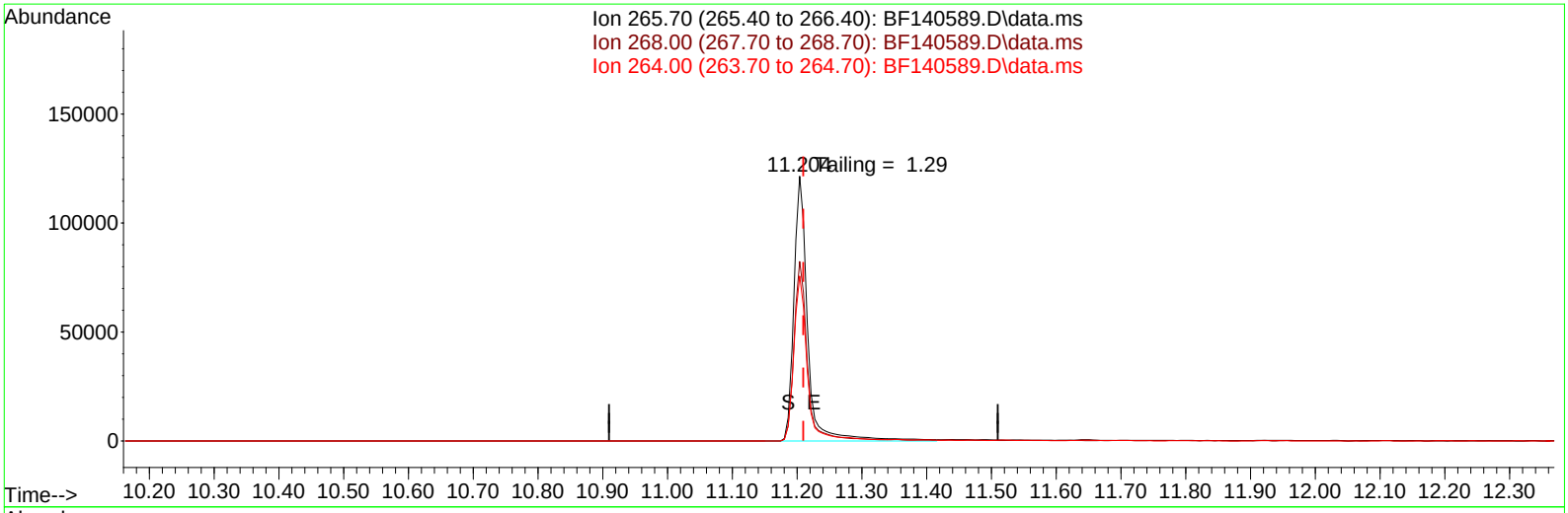
Instrument :
BNA_F
ClientSampleId :
DFTPP

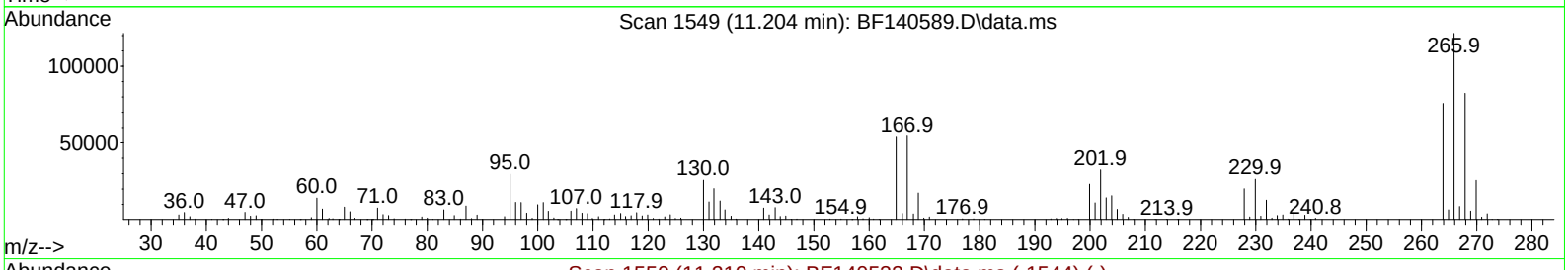
Sample Results: **BF140589.D**

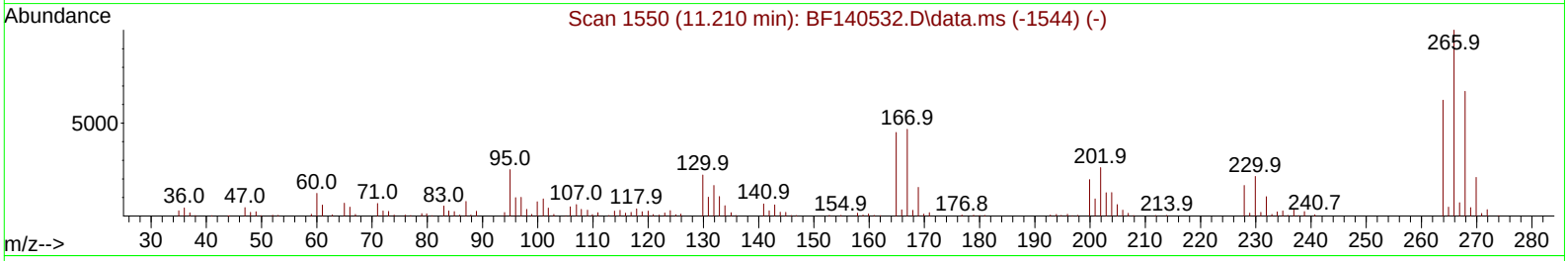
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140589.D
Acq On : 25 Nov 2024 09:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 25 10:32:51 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: BF140589.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 31422.92 ng

response 179265

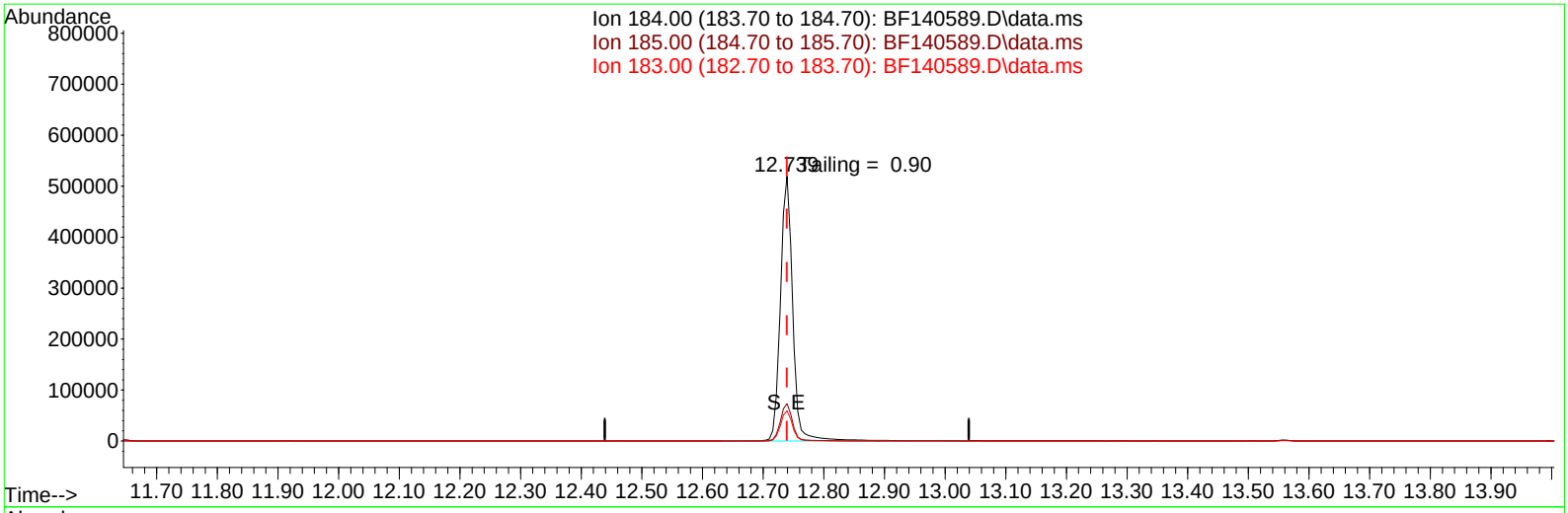
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.82
264.00	62.30	62.34
0.00	0.00	0.00

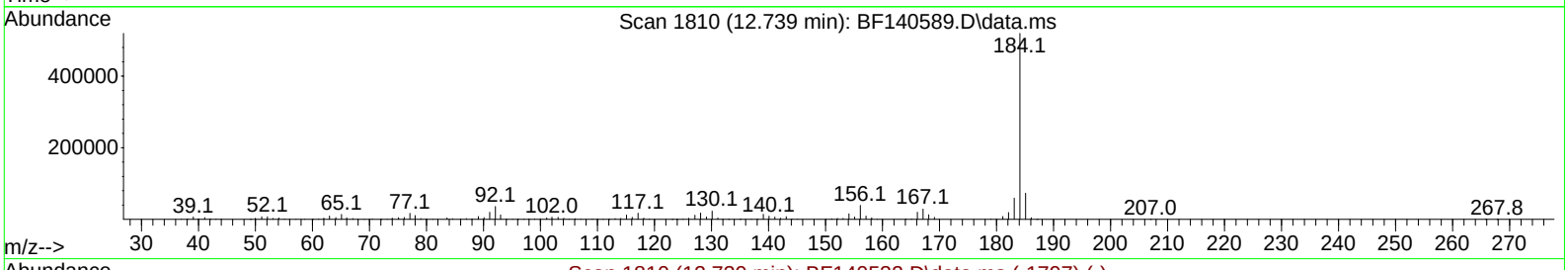
Sample Results: **BF140589.D**

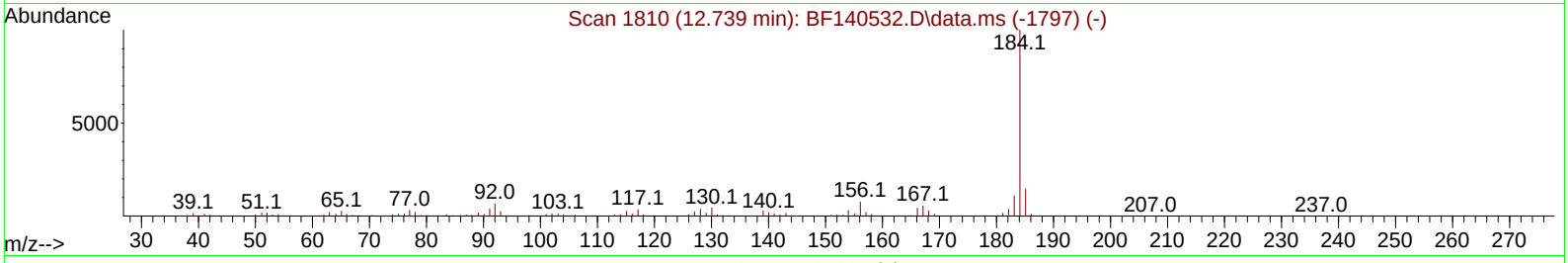
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140589.D
Acq On : 25 Nov 2024 09:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 25 10:32:51 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: BF140589.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 27658.53 ng

response 736607

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.07
183.00	11.00	11.40
0.00	0.00	0.00

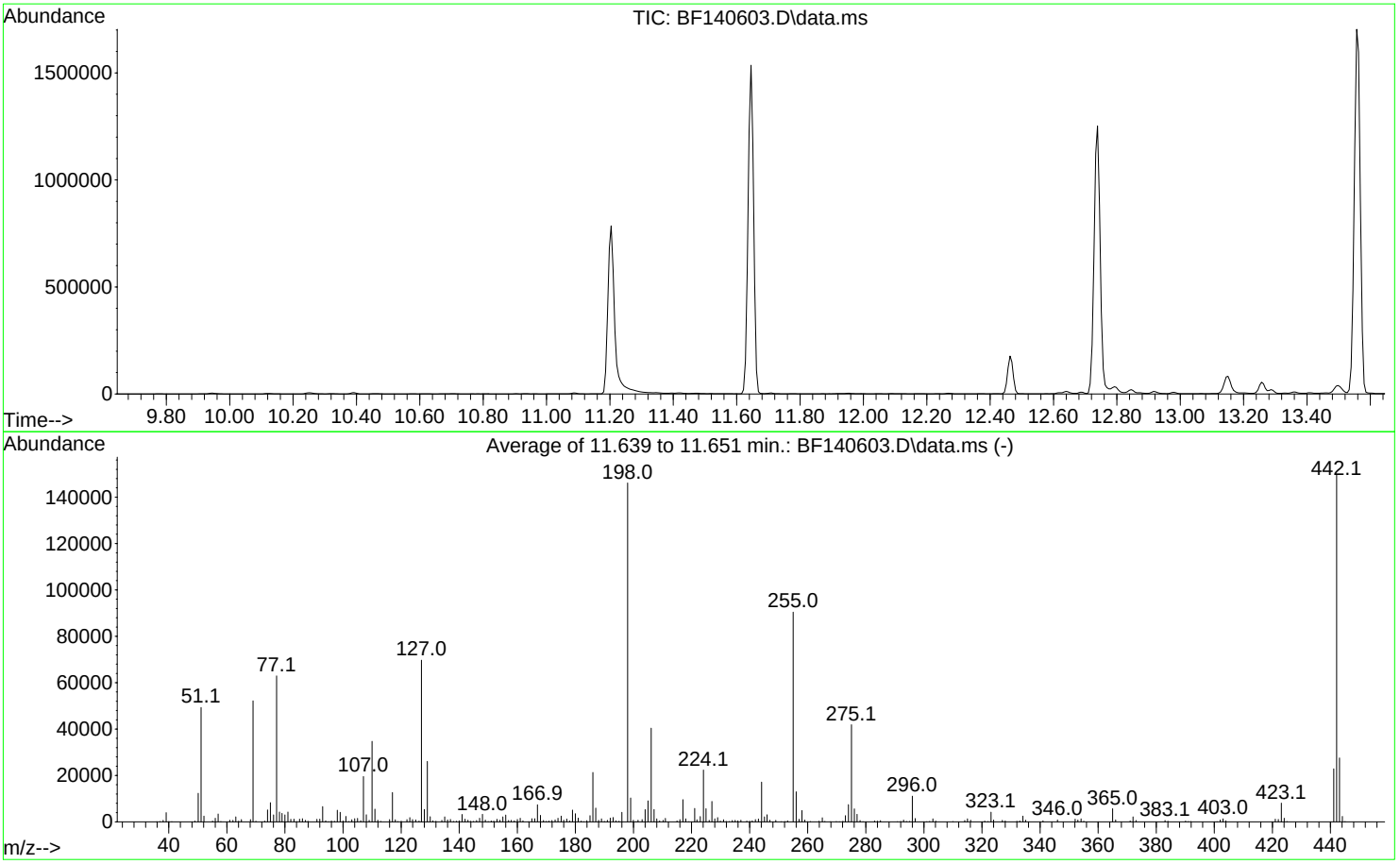
Sample Results: **BF140603.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
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 1616

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	49309	PASS
68	69	0.00	2	1.8	961	PASS
69	198	0.00	100	35.7	52187	PASS
70	69	0.00	2	0.5	279	PASS
127	198	10	80	47.7	69688	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	146083	PASS
199	198	5	9	7.0	10280	PASS
275	198	10	60	28.7	41893	PASS
365	198	1	100	3.9	5656	PASS
441	198	0.01	100	15.6	22843	PASS
442	442	50	100	100.0	149765	PASS
443	442	15	24	18.4	27568	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/25/2024	BNA_F	BF140603.D
Compound Name	**Response**	**Retention Time**
DDT	443715	13.557
DDD	19336	13.257
DDE	2495	12.921
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
21831	465546	4.69

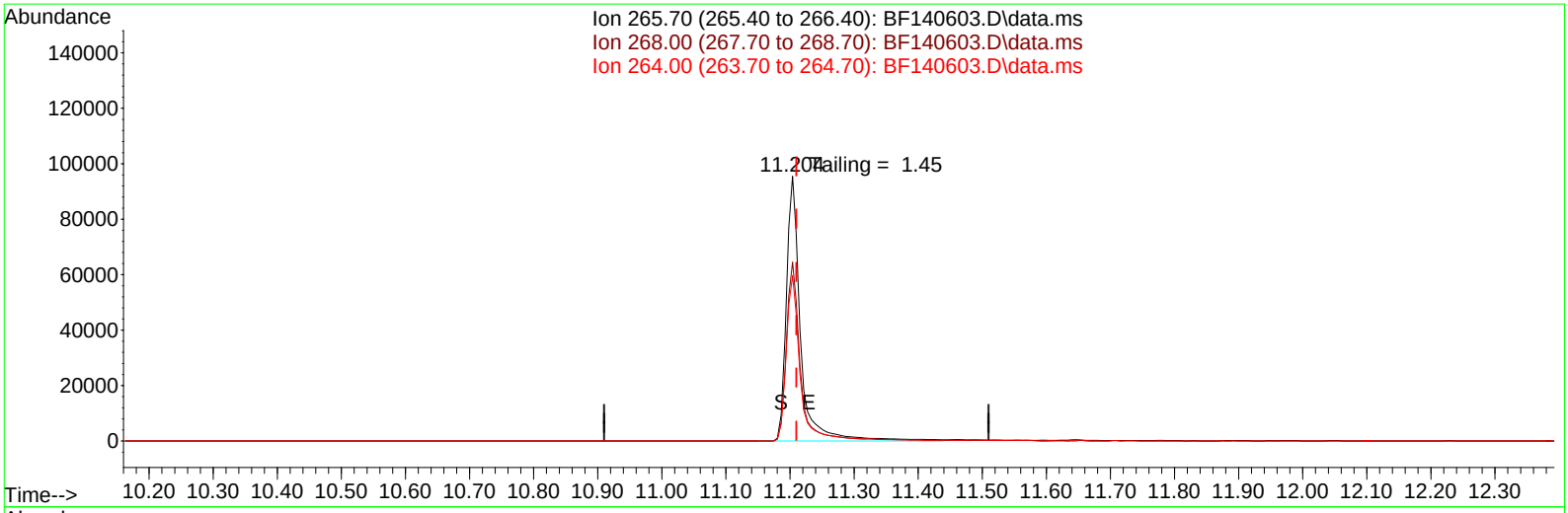
Instrument :
BNA_F
ClientSampleId :
DFTPP

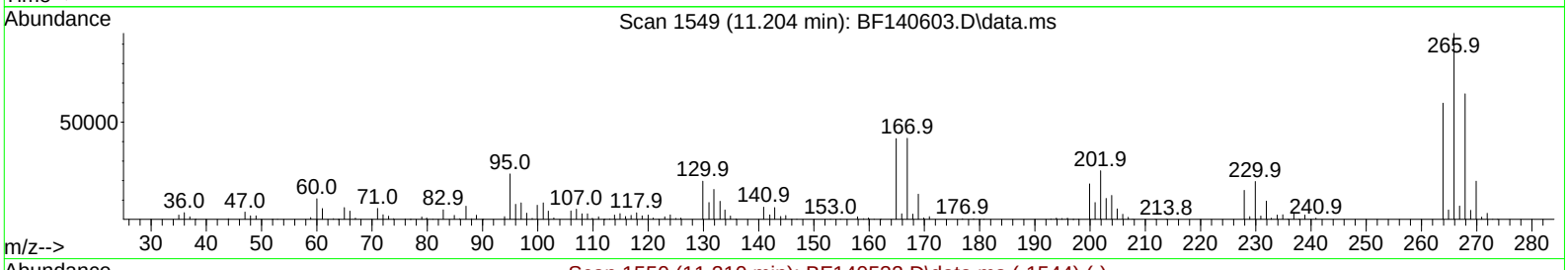
Sample Results: **BF140603.D**

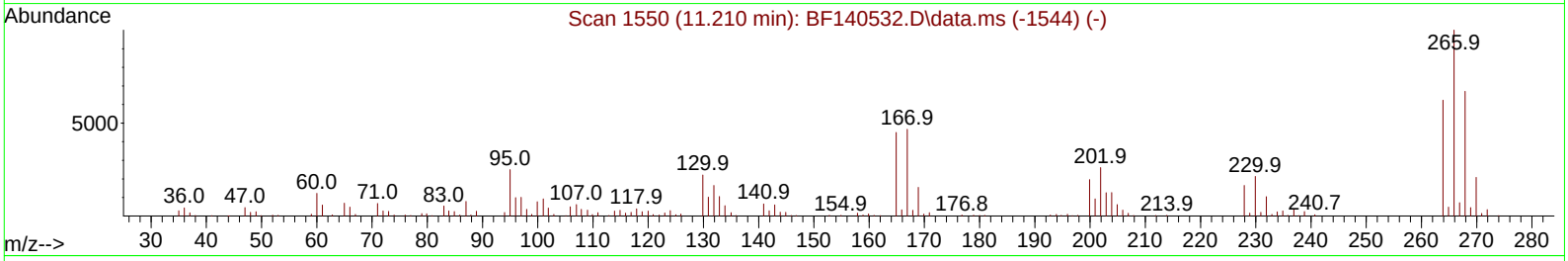
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 25 15:47:27 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







TIC: BF140603.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 19738.30 ng

response 147516

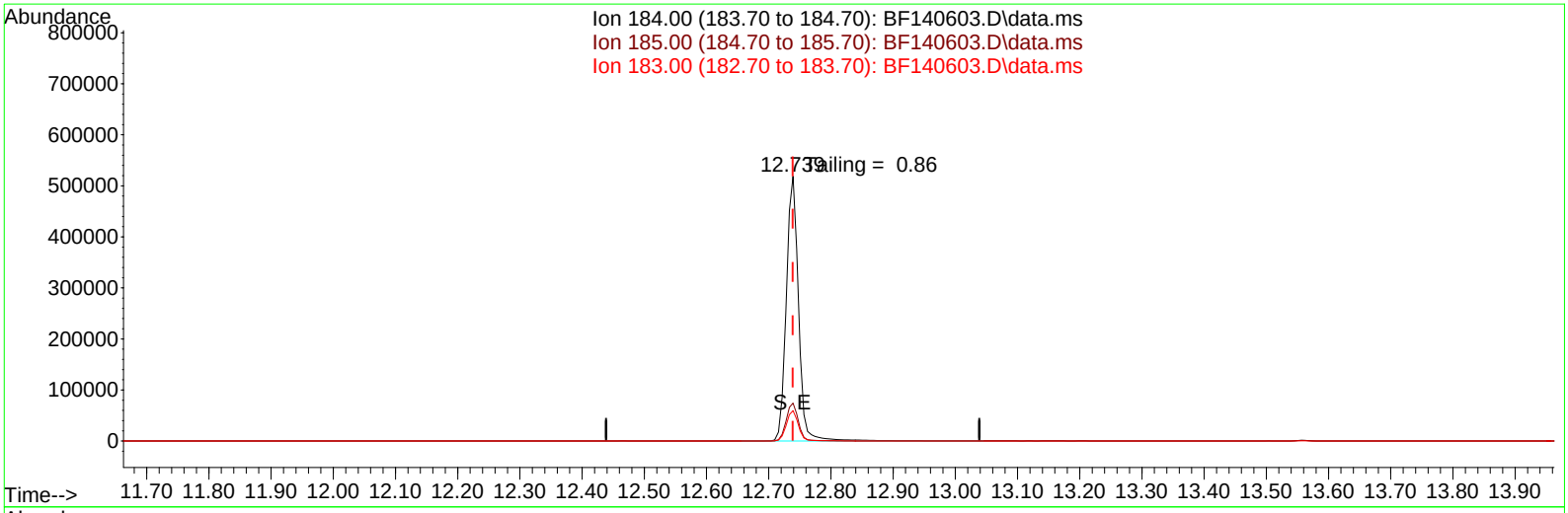
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.54
264.00	62.30	62.51
0.00	0.00	0.00

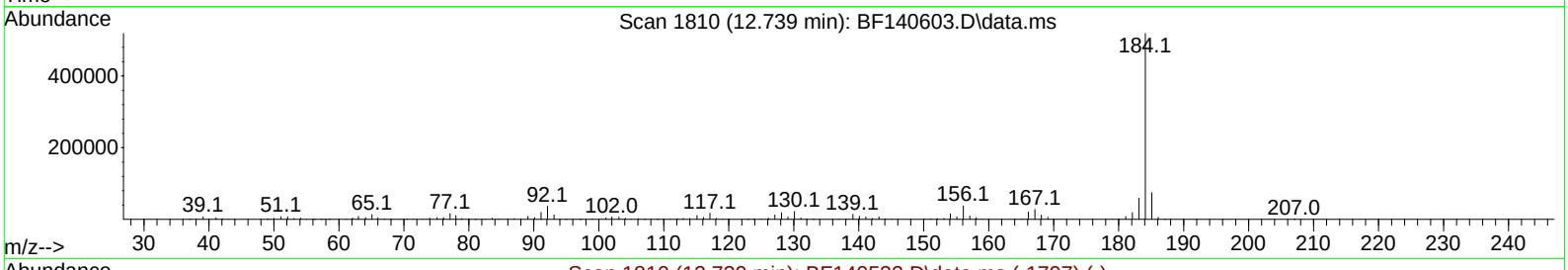
Sample Results: **BF140603.D**

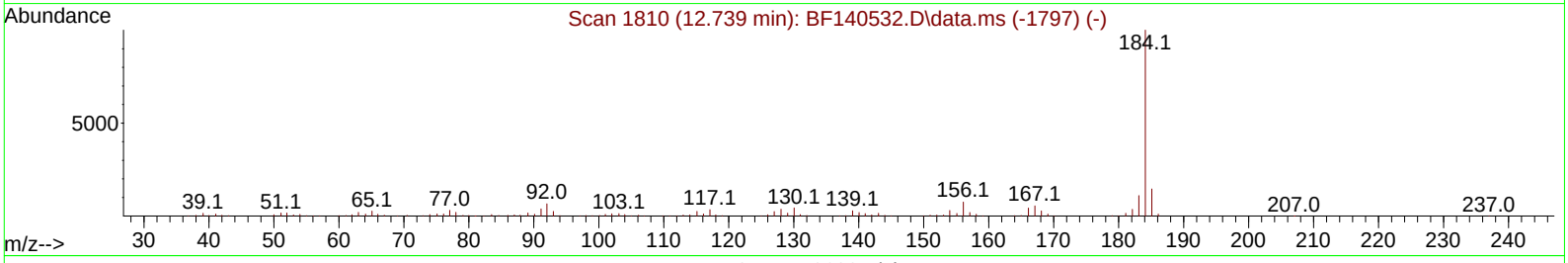
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 25 15:47:27 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







TIC: BF140603.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 26793.97 ng

response 714361

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.33
183.00	11.00	11.43
0.00	0.00	0.00

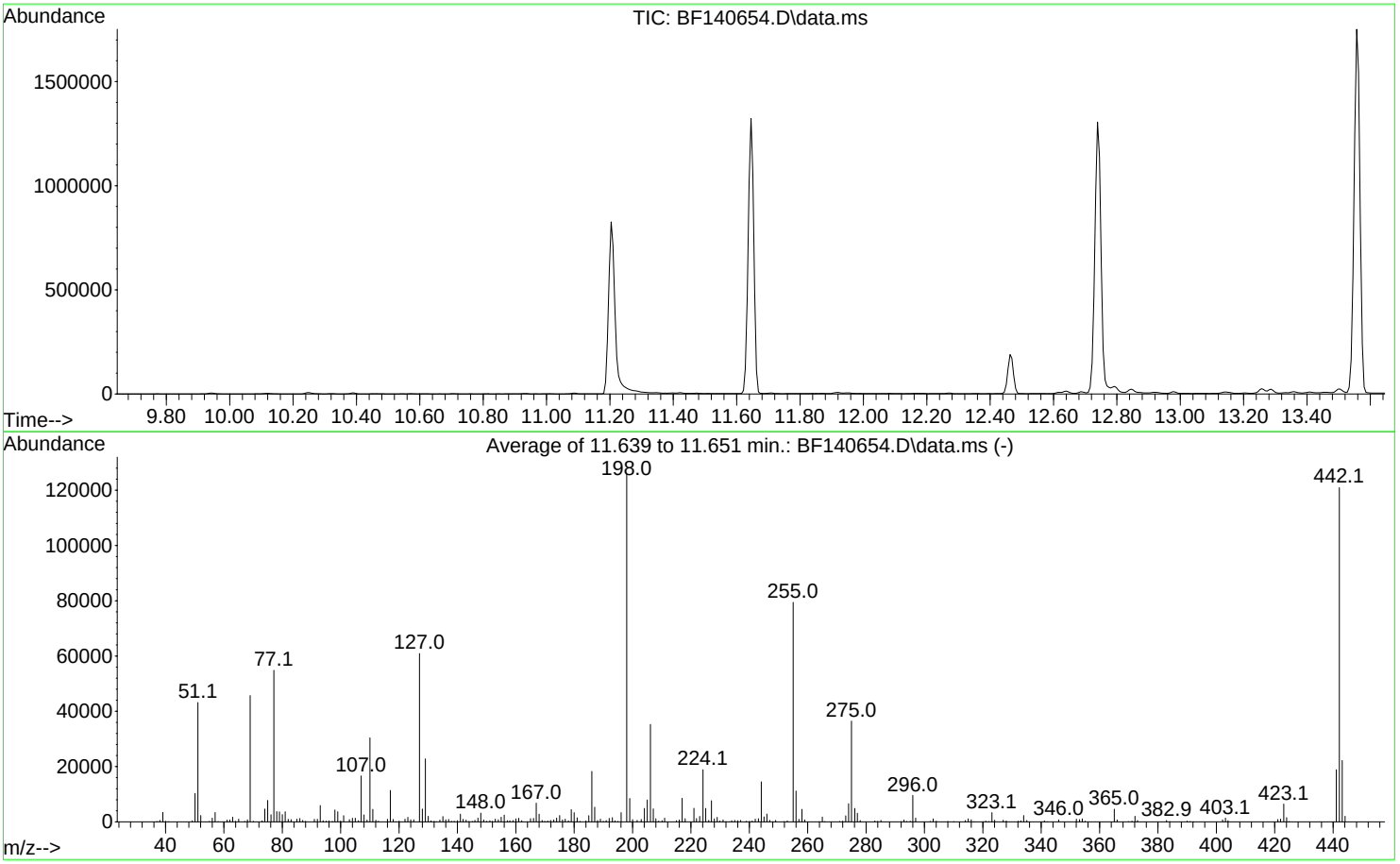
Sample Results: **BF140654.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140654.D
Acq On : 27 Nov 2024 08:19
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	34.4	43184	PASS
68	69	0.00	2	1.6	746	PASS
69	198	0.00	100	36.3	45685	PASS
70	69	0.00	2	0.5	244	PASS
127	198	10	80	48.4	60880	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	125693	PASS
199	198	5	9	6.7	8459	PASS
275	198	10	60	29.0	36451	PASS
365	198	1	100	3.6	4587	PASS
441	198	0.01	100	15.0	18852	PASS
442	442	50	100	100.0	120963	PASS
443	442	15	24	18.4	22197	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_F	BF140654.D
Compound Name	**Response**	**Retention Time**
DDT	443642	13.557
DDD	11651	13.257
DDE	1547	12.921
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
13198	456840	2.89

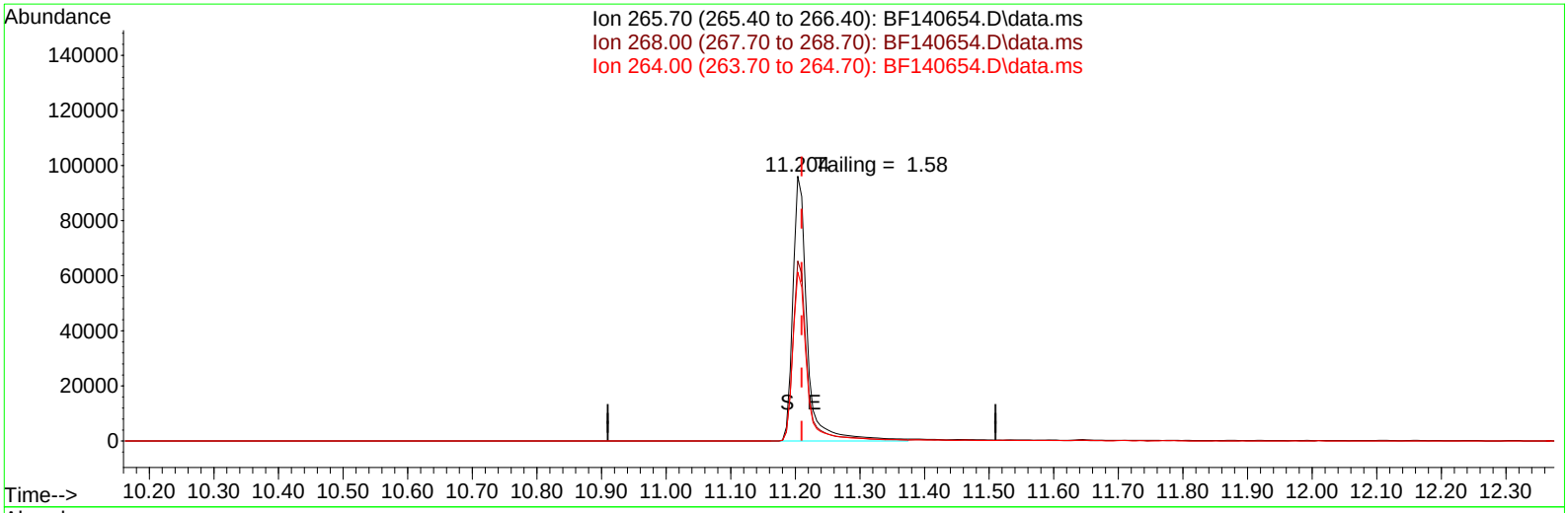
Instrument :
BNA_F
ClientSampleId :
DFTPP

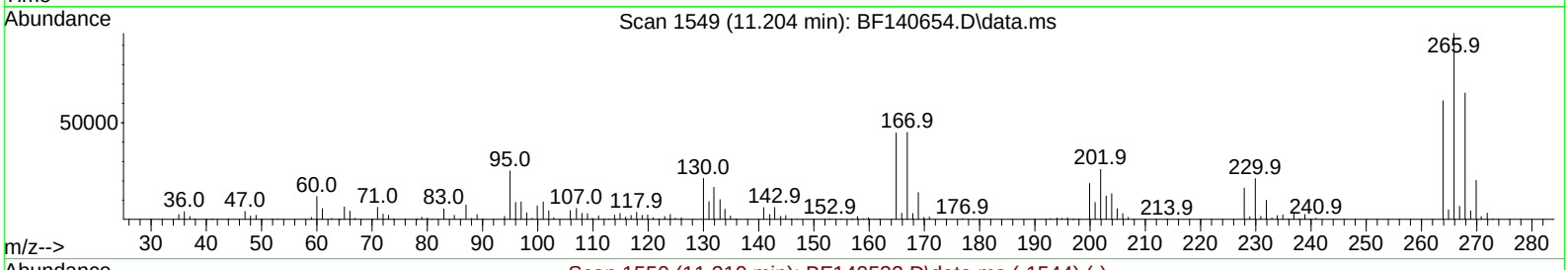
Sample Results: **BF140654.D**

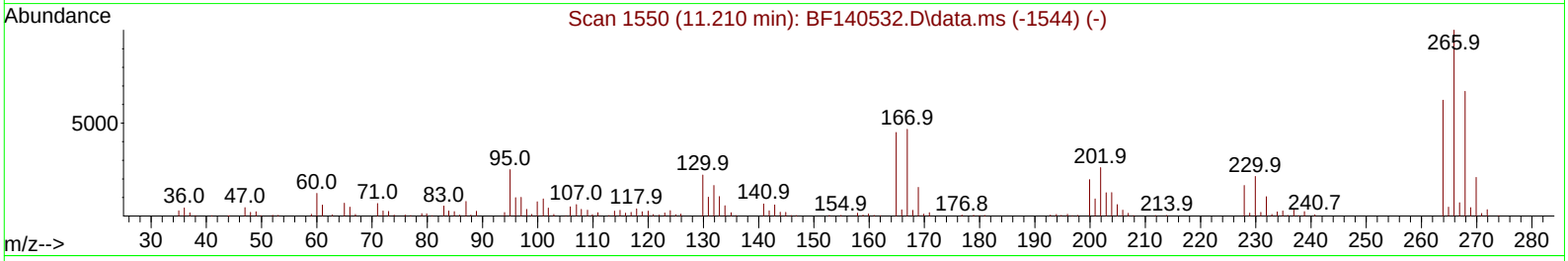
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140654.D
Acq On : 27 Nov 2024 08:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 27 10:02:29 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: BF140654.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 18220.94 ng

response 148512

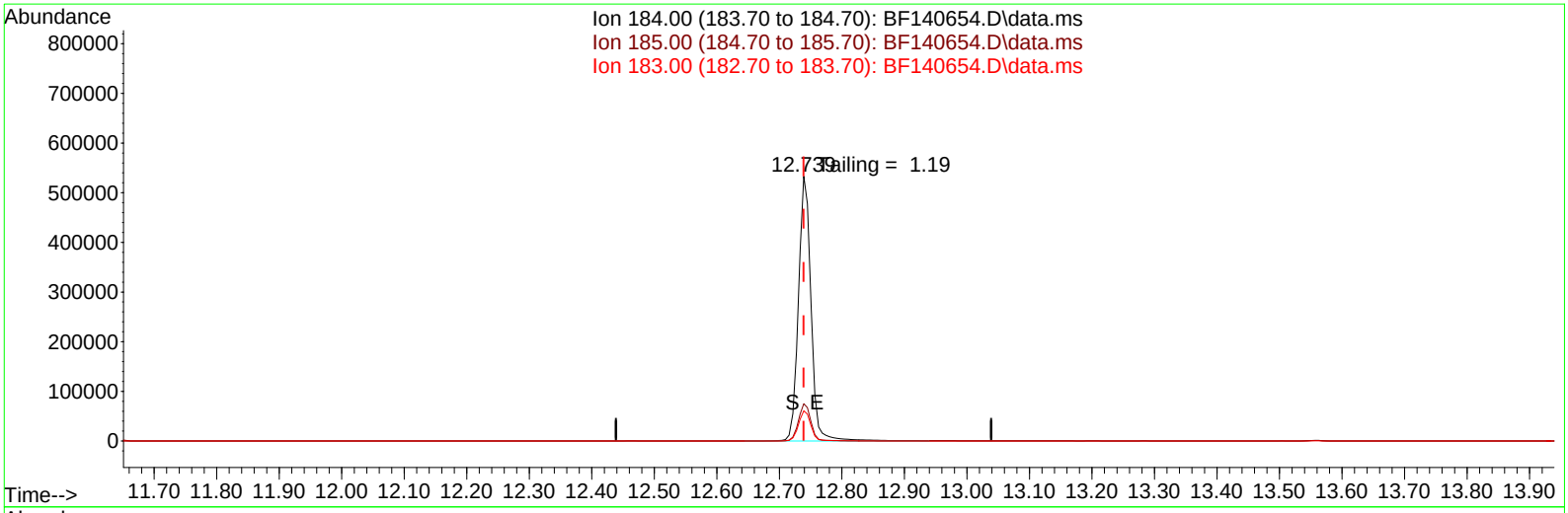
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.98
264.00	62.30	63.77
0.00	0.00	0.00

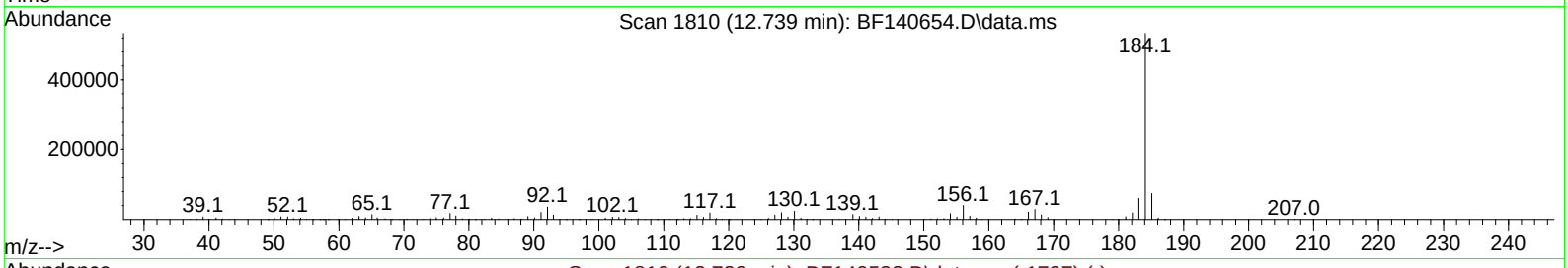
Sample Results: **BF140654.D**

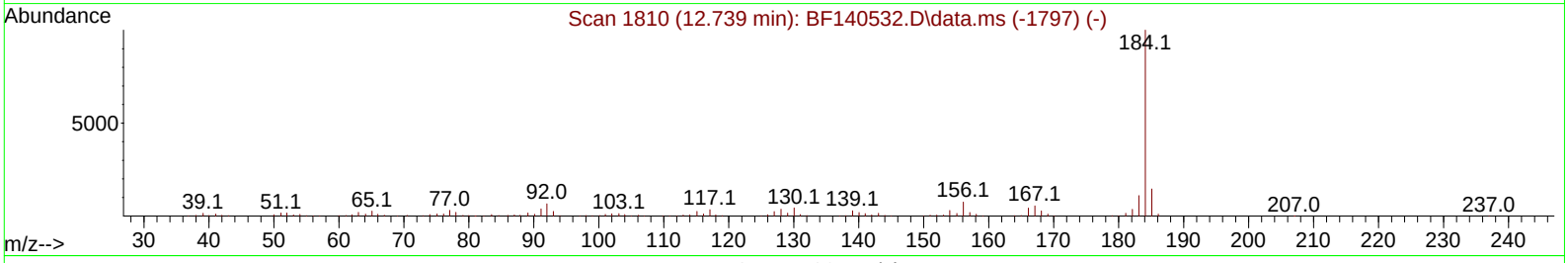
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140654.D
Acq On : 27 Nov 2024 08:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 27 10:02:29 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: BF140654.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 21492.30 ng

response 752976

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.09
183.00	11.00	11.40
0.00	0.00	0.00

Raw Data: **BF140537.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB165144BL	SDG No.:	P4921
Lab Sample ID:	PB165144BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140537.D	1	11/20/24 11:30	11/21/24 15:34	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	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
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	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
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	139		10 - 139	93%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 134	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.9		49 - 133	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.1		52 - 132	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		44 - 137	89%	SPK: 150
1718-51-0	Terphenyl-d14	98.5		48 - 125	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	89200	6.869			
1146-65-2	Naphthalene-d8	333000	8.151			
15067-26-2	Acenaphthene-d10	188000	9.91			
1517-22-2	Phenanthrene-d10	360000	11.398			
1719-03-5	Chrysene-d12	208000	14.045			
1520-96-3	Perylene-d12	162000	15.539			

Raw Data: **BF140537.D**

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

Report of Analysis

Client:	AECOM			Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	
Client Sample ID:	PB165144BL			SDG No.:	P4921
Lab Sample ID:	PB165144BL			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
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
BF140537.D	1	11/20/24 11:30	11/21/24 15:34	PB165144

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\BF112124\
Data File : BF140537.D
Acq On : 21 Nov 2024 15:34
Operator : RC/JU
Sample : PB165144BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Quant Time: Nov 21 16:12:38 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

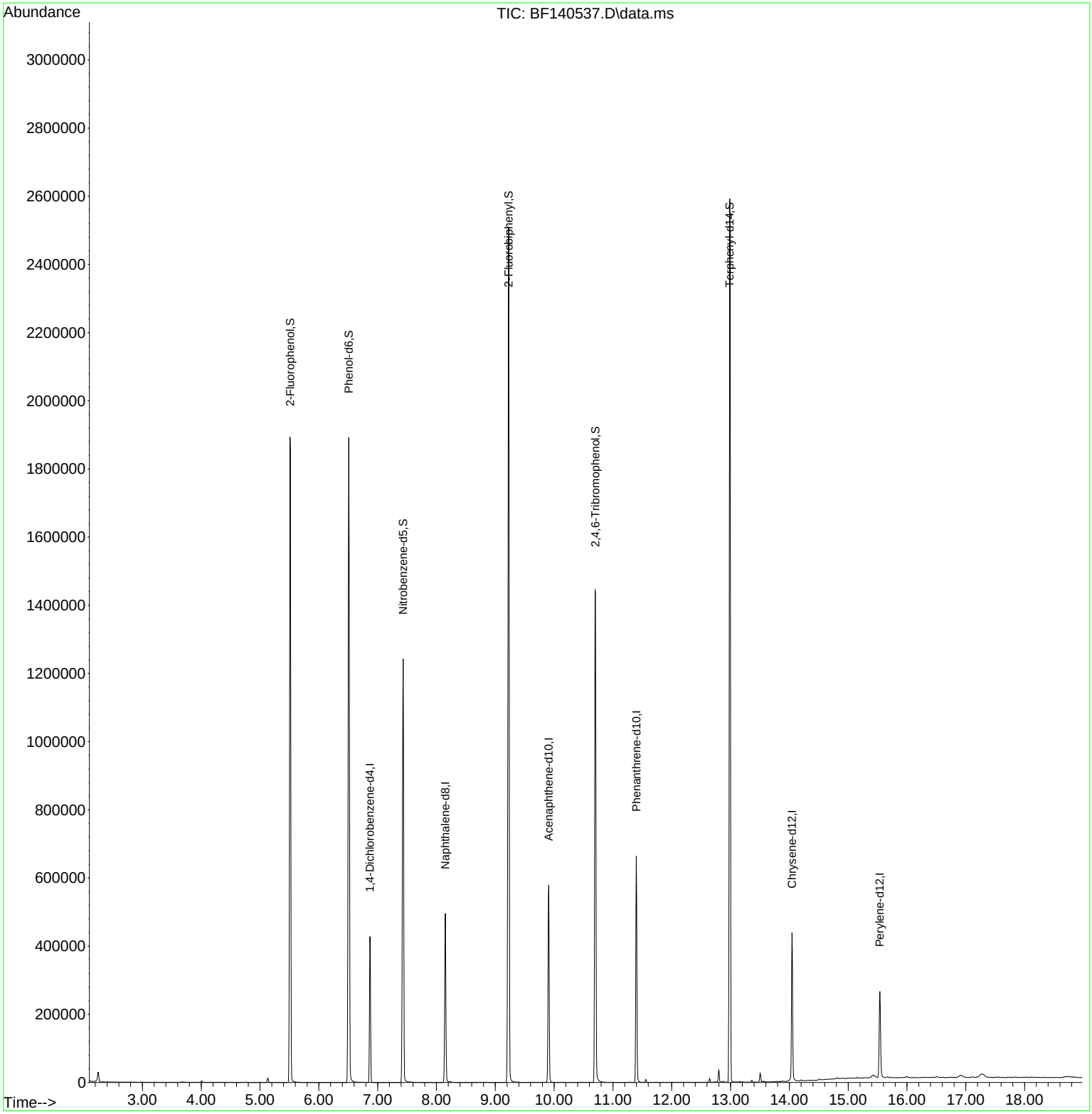
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	89214	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	332852	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	187896	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	359986	20.000	ng	0.00
76) Chrysene-d12	14.045	240	208110	20.000	ng	0.00
86) Perylene-d12	15.539	264	161923	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	726213	138.888	ng	0.02
7) Phenol-d6	6.510	99	933803	135.088	ng	0.00
23) Nitrobenzene-d5	7.433	82	623751	95.854	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	267214	132.971	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1199007	95.077	ng	0.00
79) Terphenyl-d14	12.986	244	1315938	98.462	ng	0.00
Target Compounds						Qvalue

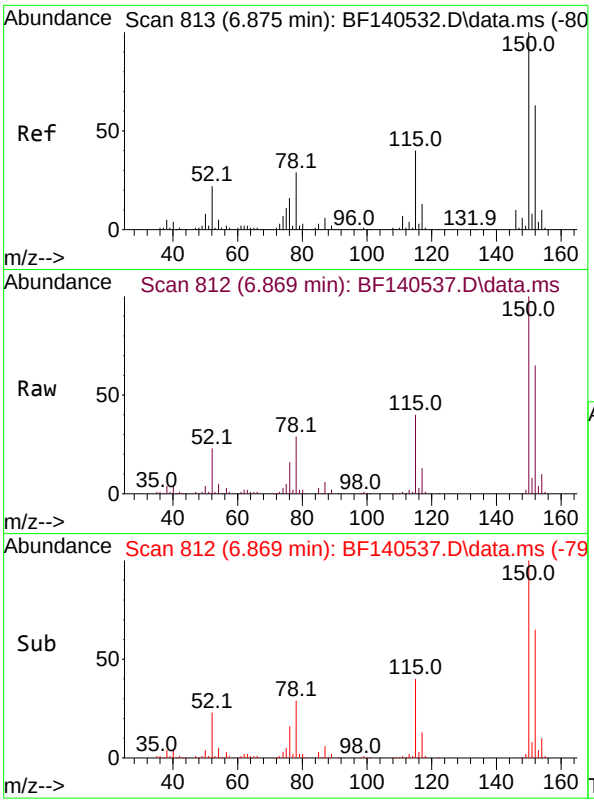
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140537.D
Acq On : 21 Nov 2024 15:34
Operator : RC/JU
Sample : PB165144BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Quant Time: Nov 21 16:12:38 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



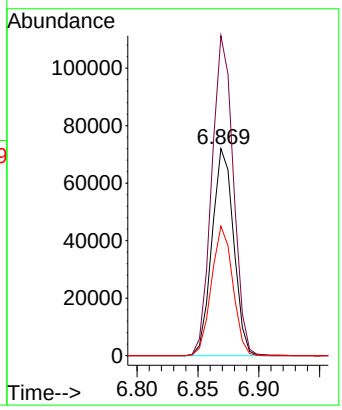


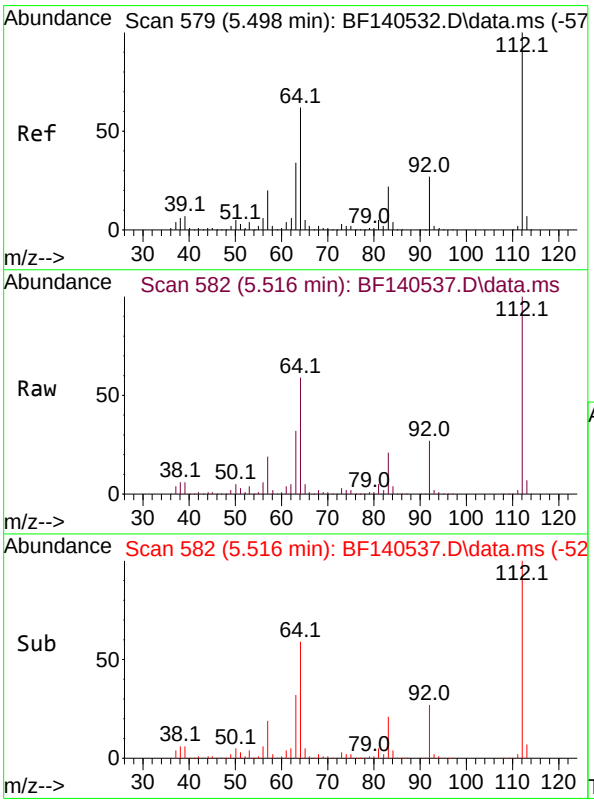
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Tgt Ion:152 Resp: 89214

Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.5	192.7
115	62.5	50.2	75.4

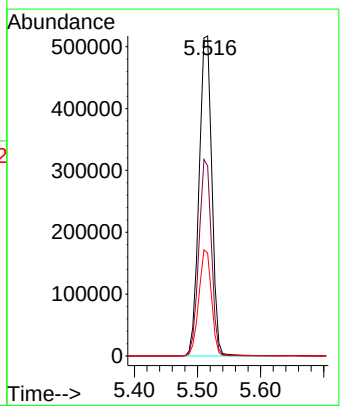


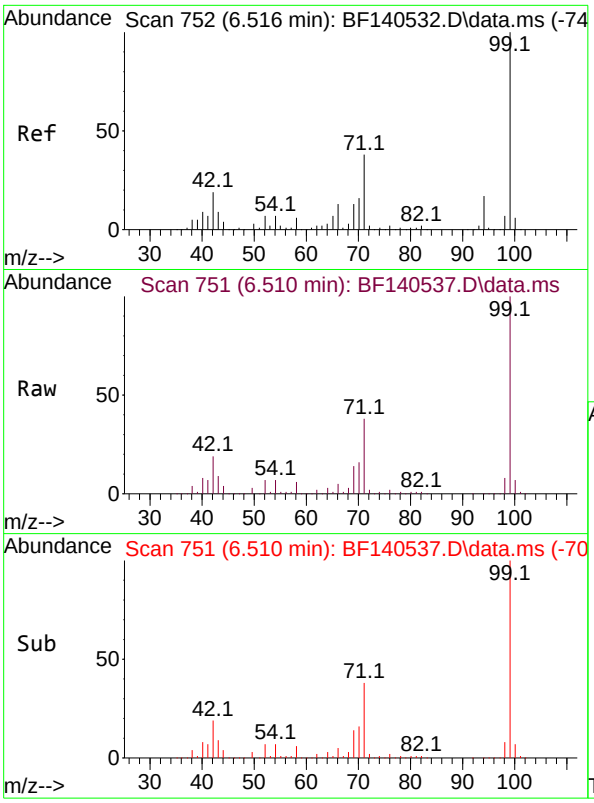


#5
2-Fluorophenol
Concen: 138.888 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:112 Resp: 726213

Ion	Ratio	Lower	Upper
112	100		
64	59.4	49.2	73.8
63	32.1	27.0	40.4



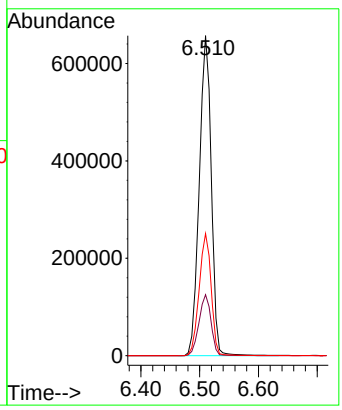


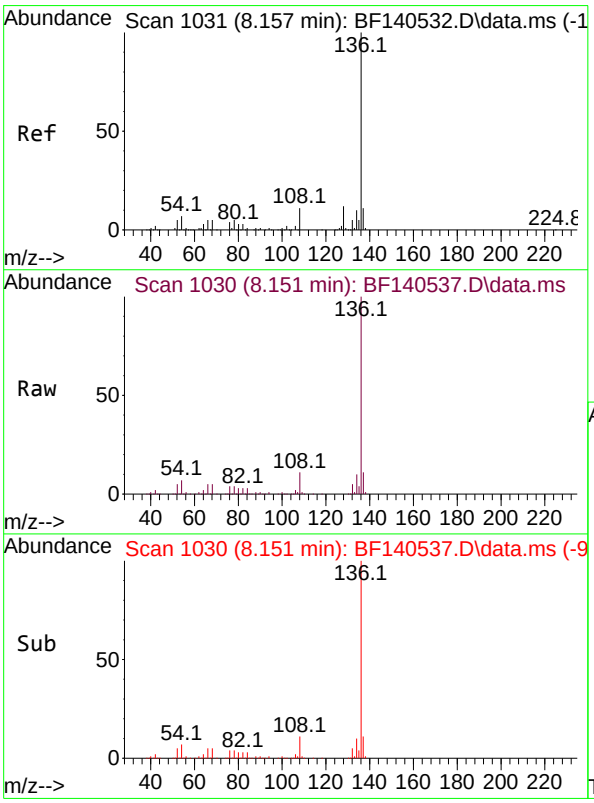
#7
Phenol-d6
Concen: 135.088 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Tgt Ion: 99 Resp: 933803

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.4	23.0
71	38.2	30.6	46.0

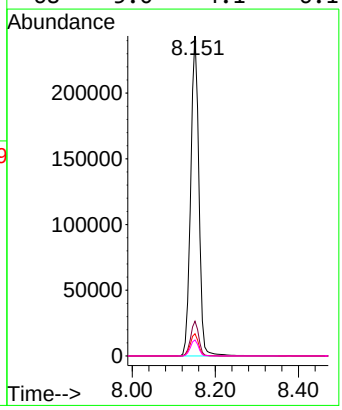


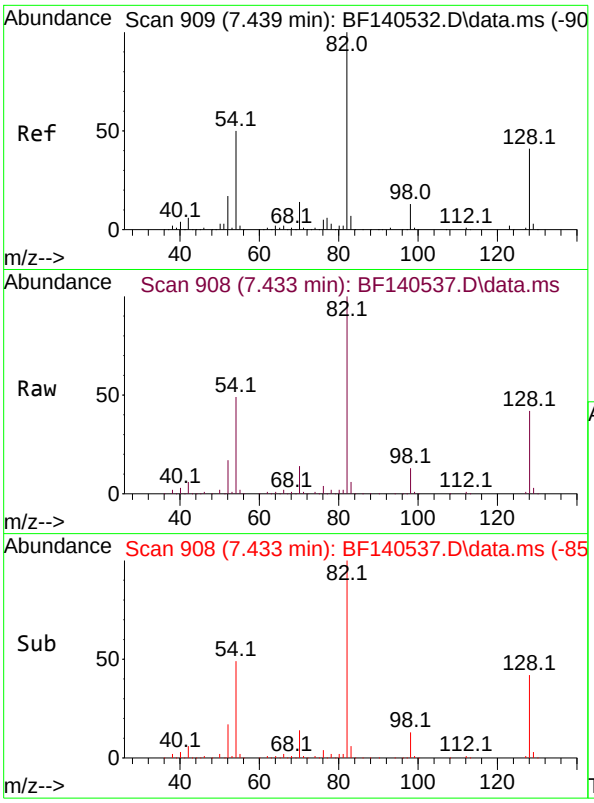


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:136 Resp: 332852

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	6.9	5.8	8.8
68	5.0	4.1	6.1



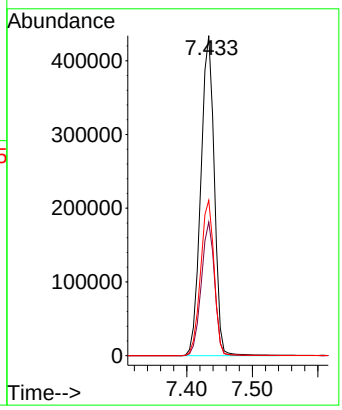


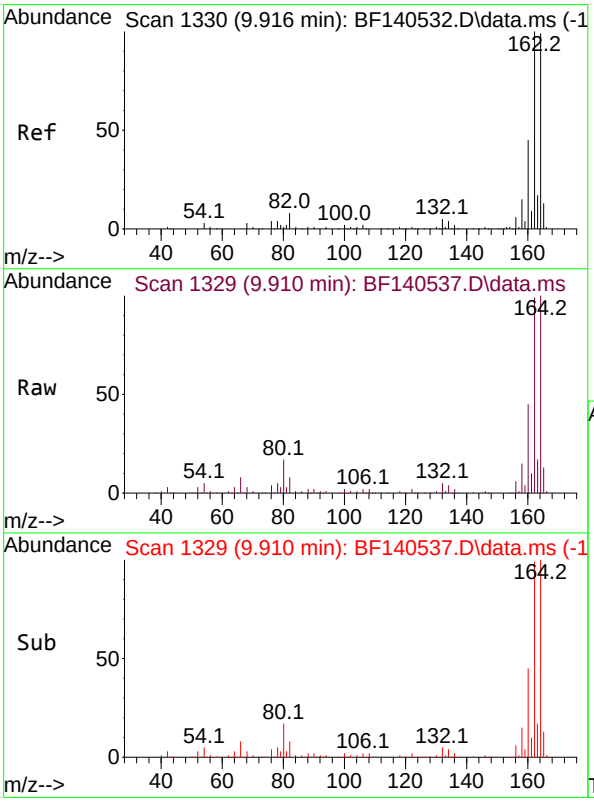
#23
Nitrobenzene-d5
Concen: 95.854 ng
RT: 7.433 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Tgt Ion: 82 Resp: 623751

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.0	49.4
54	48.5	39.5	59.3

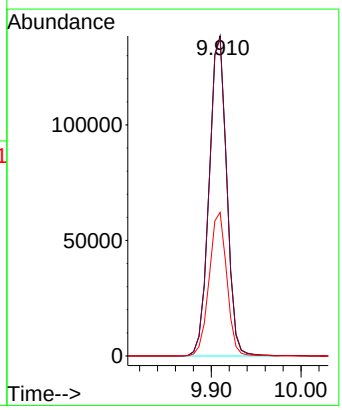


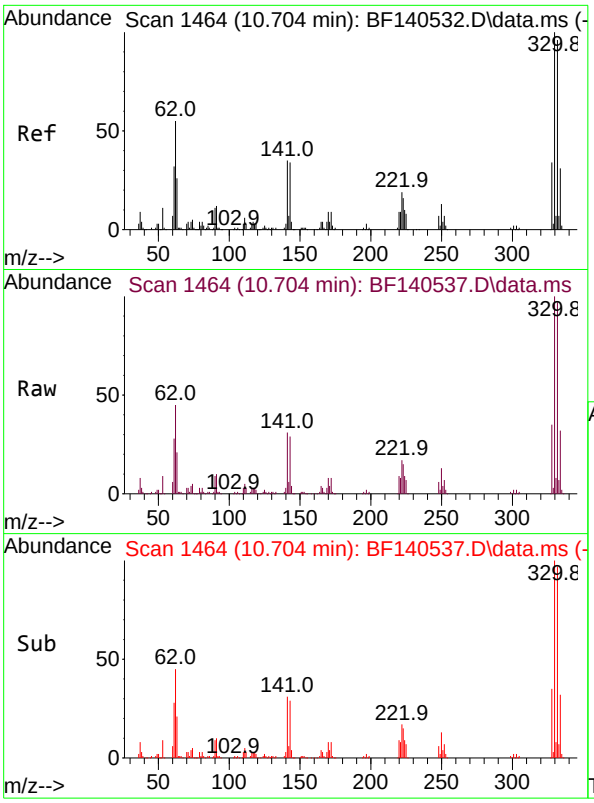


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:164 Resp: 187896

Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.6	120.8
160	44.8	36.2	54.4



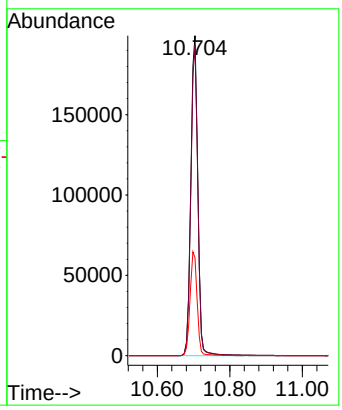


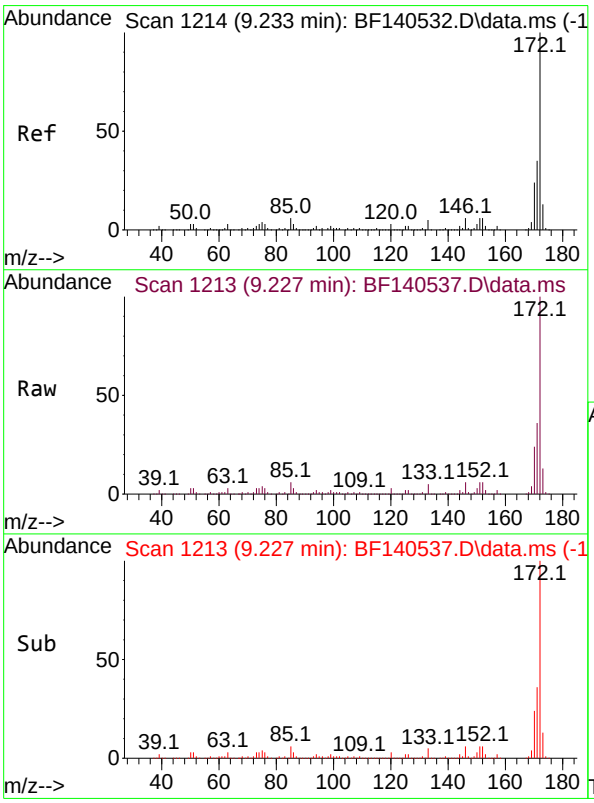
#42
2,4,6-Tribromophenol
Concen: 132.971 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Tgt Ion:330 Resp: 267214

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.9	115.3
141	32.9	26.7	40.1

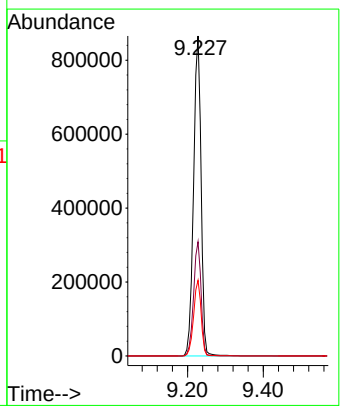


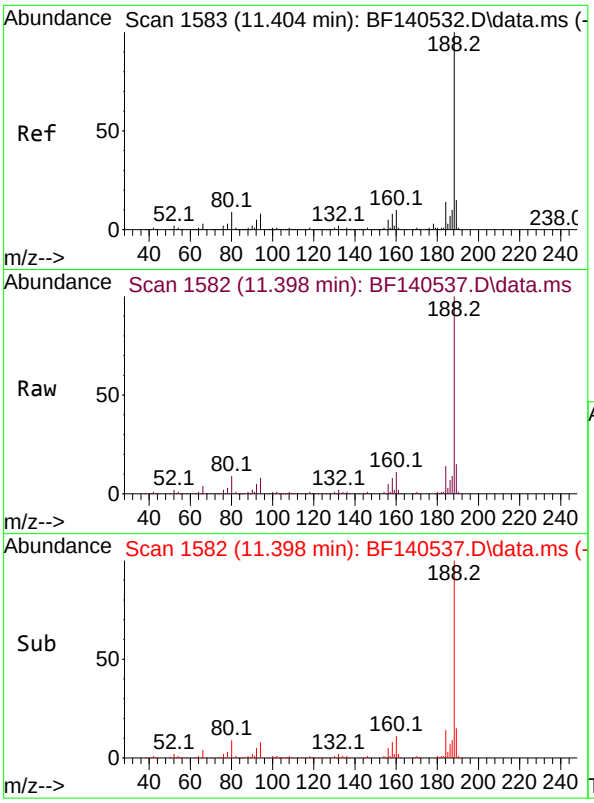


#45
2-Fluorobiphenyl
Concen: 95.077 ng
RT: 9.227 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:172 Resp: 1199007

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.4	42.6
170	23.6	19.0	28.6



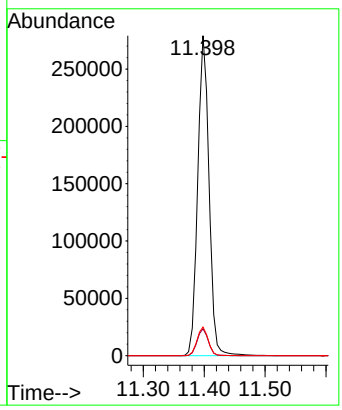


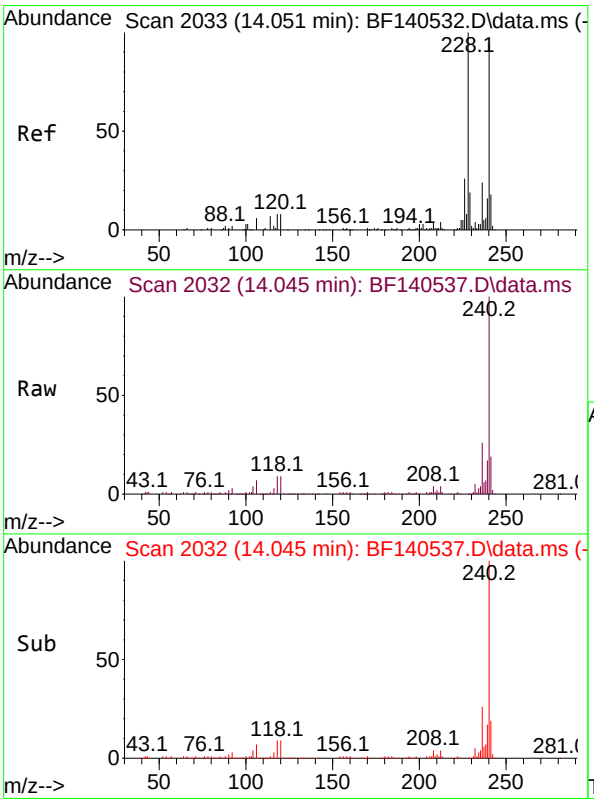
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Tgt Ion:188 Resp: 359986

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.4	9.6
80	8.9	6.9	10.3

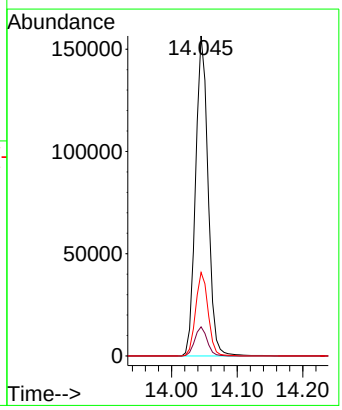


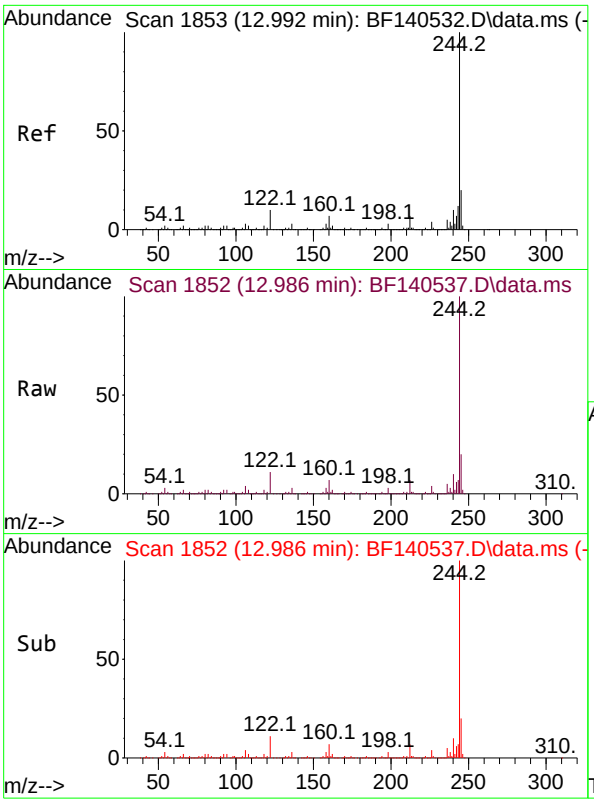


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:240 Resp: 208110

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.3	10.9
236	26.1	20.6	31.0



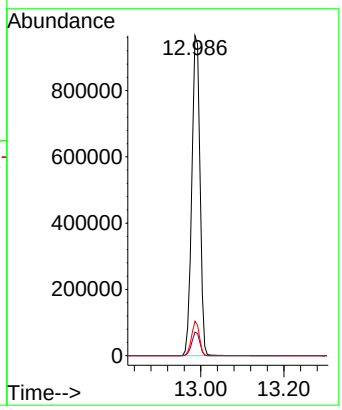


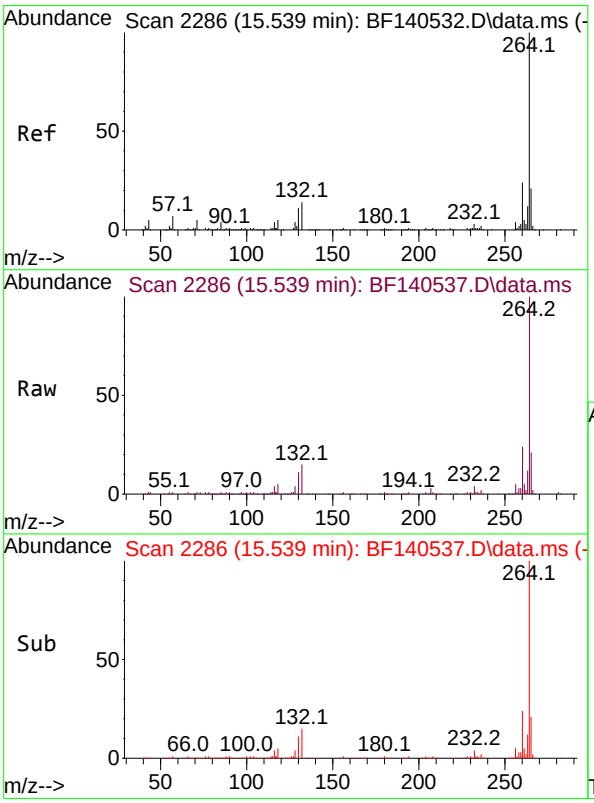
#79
Terphenyl-d14
Concen: 98.462 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Instrument :
BNA_F
ClientSampleId :
PB165144BL

Tgt Ion:244 Resp: 1315938

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.8	8.0	12.0

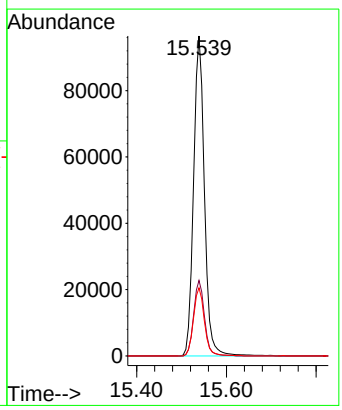




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF140537.D
Acq: 21 Nov 2024 15:34

Tgt Ion:264 Resp: 161923

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	21.3	16.6	25.0



Raw Data: **BF140659.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	
Client Sample ID:	PB165144BS	SDG No.:	P4921
Lab Sample ID:	PB165144BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140659.D	1	11/20/24 11:30	11/27/24 10:30	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	49.6		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	46.6		0.84	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.2		1.20	10.0	ug/L
67-72-1	Hexachloroethane	46.8		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.0		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	48.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.6		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.1		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	47.1		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	97.1	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	137		10 - 139	92%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 134	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.9		49 - 133	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.7		52 - 132	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		44 - 137	93%	SPK: 150
1718-51-0	Terphenyl-d14	91.8		48 - 125	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82000	6.869			
1146-65-2	Naphthalene-d8	308000	8.151			
15067-26-2	Acenaphthene-d10	177000	9.91			
1517-22-2	Phenanthrene-d10	338000	11.398			
1719-03-5	Chrysene-d12	213000	14.051			
1520-96-3	Perylene-d12	167000	15.545			

Raw Data: **BF140659.D**

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

Report of Analysis

Client:	AECOM			Date Collected:			
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:			
Client Sample ID:	PB165144BS			SDG No.:	P4921		
Lab Sample ID:	PB165144BS			Matrix:	TCLP		
Analytical Method:	SW8270			% Solid:	0		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000		uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA		
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
BF140659.D	1	11/20/24 11:30	11/27/24 10:30	PB165144

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\BF112724\
Data File : BF140659.D
Acq On : 27 Nov 2024 10:30
Operator : RC/JU
Sample : PB165144BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 27 11:15:37 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 :
PB165144BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	82046	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	308441	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	177190	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	338038	20.000	ng		0.00
76) Chrysene-d12	14.051	240	213188	20.000	ng		0.00
86) Perylene-d12	15.545	264	167110	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	660162	137.286	ng		0.01
7) Phenol-d6	6.516	99	860079	135.293	ng		0.00
23) Nitrobenzene-d5	7.434	82	560054	92.876	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	265293	139.992	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1089947	91.651	ng		0.00
79) Terphenyl-d14	12.986	244	1256199	91.753	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.728	88	86757	42.911	ng		97
3) Pyridine	3.493	79	220472	49.562	ng		99
4) n-Nitrosodimethylamine	3.446	42	121230	46.369	ng		93
6) Aniline	6.534	93	222514	49.729	ng	#	85
8) 2-Chlorophenol	6.663	128	257589	49.791	ng		95
9) Benzaldehyde	6.422	77	19047	5.660	ng		98
10) Phenol	6.528	94	326867	50.347	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	238808	48.069	ng		99
12) 1,3-Dichlorobenzene	6.810	146	273009	46.965	ng		98
13) 1,4-Dichlorobenzene	6.887	146	274088	46.566	ng		100
14) 1,2-Dichlorobenzene	7.040	146	263879	47.844	ng		100
15) Benzyl Alcohol	7.016	79	237674	50.414	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.140	45	295074	50.275	ng		90
17) 2-Methylphenol	7.128	107	206253	49.804	ng		97
18) Hexachloroethane	7.381	117	102854	46.787	ng		100
19) n-Nitroso-di-n-propyla...	7.281	70	179461	47.766	ng		99
20) 3+4-Methylphenols	7.281	107	261956	49.213	ng		96
22) Acetophenone	7.281	105	355523	47.279	ng		99
24) Nitrobenzene	7.457	77	285464	45.804	ng		97
25) Isophorone	7.693	82	494582	49.174	ng		100
26) 2-Nitrophenol	7.769	139	140191	50.759	ng		96
27) 2,4-Dimethylphenol	7.804	122	209117	63.282	ng		98
28) bis(2-Chloroethoxy)met...	7.898	93	296167	48.336	ng		99
29) 2,4-Dichlorophenol	8.016	162	218763	49.960	ng		98
30) 1,2,4-Trichlorobenzene	8.093	180	229749	45.954	ng		99
31) Naphthalene	8.175	128	765296	48.170	ng		100
32) Benzoic acid	7.940	122	114650	41.088	ng		100
33) 4-Chloroaniline	8.222	127	133189	28.000	ng		97
34) Hexachlorobutadiene	8.287	225	152393	46.020	ng		99
35) Caprolactam	8.598	113	69861m	51.555	ng		
36) 4-Chloro-3-methylphenol	8.716	107	246154	50.209	ng		98
37) 2-Methylnaphthalene	8.863	142	502787	49.825	ng		99
38) 1-Methylnaphthalene	8.963	142	467838	47.298	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	242624	46.773	ng		99
41) Hexachlorocyclopentadiene	9.016	237	200078	163.248	ng		99
43) 2,4,6-Trichlorophenol	9.145	196	156766	48.162	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140659.D
Acq On : 27 Nov 2024 10:30
Operator : RC/JU
Sample : PB165144BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 27 11:15:37 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 :
PB165144BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	164532	46.576	ng	96
46) 1,1'-Biphenyl	9.328	154	631034	47.700	ng	99
47) 2-Chloronaphthalene	9.357	162	470299	46.917	ng	99
48) 2-Nitroaniline	9.457	65	158673	49.315	ng	96
49) Acenaphthylene	9.769	152	781907	51.626	ng	99
50) Dimethylphthalate	9.628	163	574368	49.219	ng	99
51) 2,6-Dinitrotoluene	9.698	165	125055	47.251	ng	94
52) Acenaphthene	9.945	154	473370	49.189	ng	100
53) 3-Nitroaniline	9.869	138	83776	32.365	ng	96
54) 2,4-Dinitrophenol	9.981	184	120715	87.279	ng	97
55) Dibenzofuran	10.116	168	706974	48.163	ng	99
56) 4-Nitrophenol	10.045	139	168353	95.365	ng	94
57) 2,4-Dinitrotoluene	10.104	165	172553	49.057	ng	97
58) Fluorene	10.457	166	560062	47.534	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	141245	52.026	ng	95
60) Diethylphthalate	10.328	149	565227	47.672	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	277803	48.045	ng	99
62) 4-Nitroaniline	10.486	138	130223	47.967	ng	97
63) Azobenzene	10.610	77	541255	48.205	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	94895	54.935	ng	96
66) n-Nitrosodiphenylamine	10.569	169	487573	48.774	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	165350	47.497	ng	98
68) Hexachlorobenzene	11.010	284	189679	47.055	ng	99
69) Atrazine	11.098	200	161923	57.578	ng	98
70) Pentachlorophenol	11.210	266	172264	97.098	ng	99
71) Phenanthrene	11.428	178	808001	49.726	ng	99
72) Anthracene	11.475	178	823351	51.800	ng	99
73) Carbazole	11.633	167	763113	49.906	ng	100
74) Di-n-butylphthalate	11.951	149	868491	49.197	ng	100
75) Fluoranthene	12.616	202	893626	50.652	ng	99
77) Benzidine	12.739	184	184796	29.814	ng	99
78) Pyrene	12.845	202	920263	46.686	ng	100
80) Butylbenzylphthalate	13.457	149	344945	48.577	ng	98
81) Benzo(a)anthracene	14.039	228	712365	50.479	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	139928	33.025	ng	98
83) Chrysene	14.075	228	656248	50.856	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	455416	50.791	ng	100
85) Di-n-octyl phthalate	14.639	149	659465	53.817	ng	98
87) Indeno(1,2,3-cd)pyrene	17.057	276	548733	50.387	ng	99
88) Benzo(b)fluoranthene	15.110	252	535206	50.989	ng	99
89) Benzo(k)fluoranthene	15.139	252	484597	52.758	ng	100
90) Benzo(a)pyrene	15.480	252	467848	54.819	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	450067	50.463	ng	100
92) Benzo(g,h,i)perylene	17.510	276	423327	46.514	ng	98

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

Sample Results: **BF140659.D**

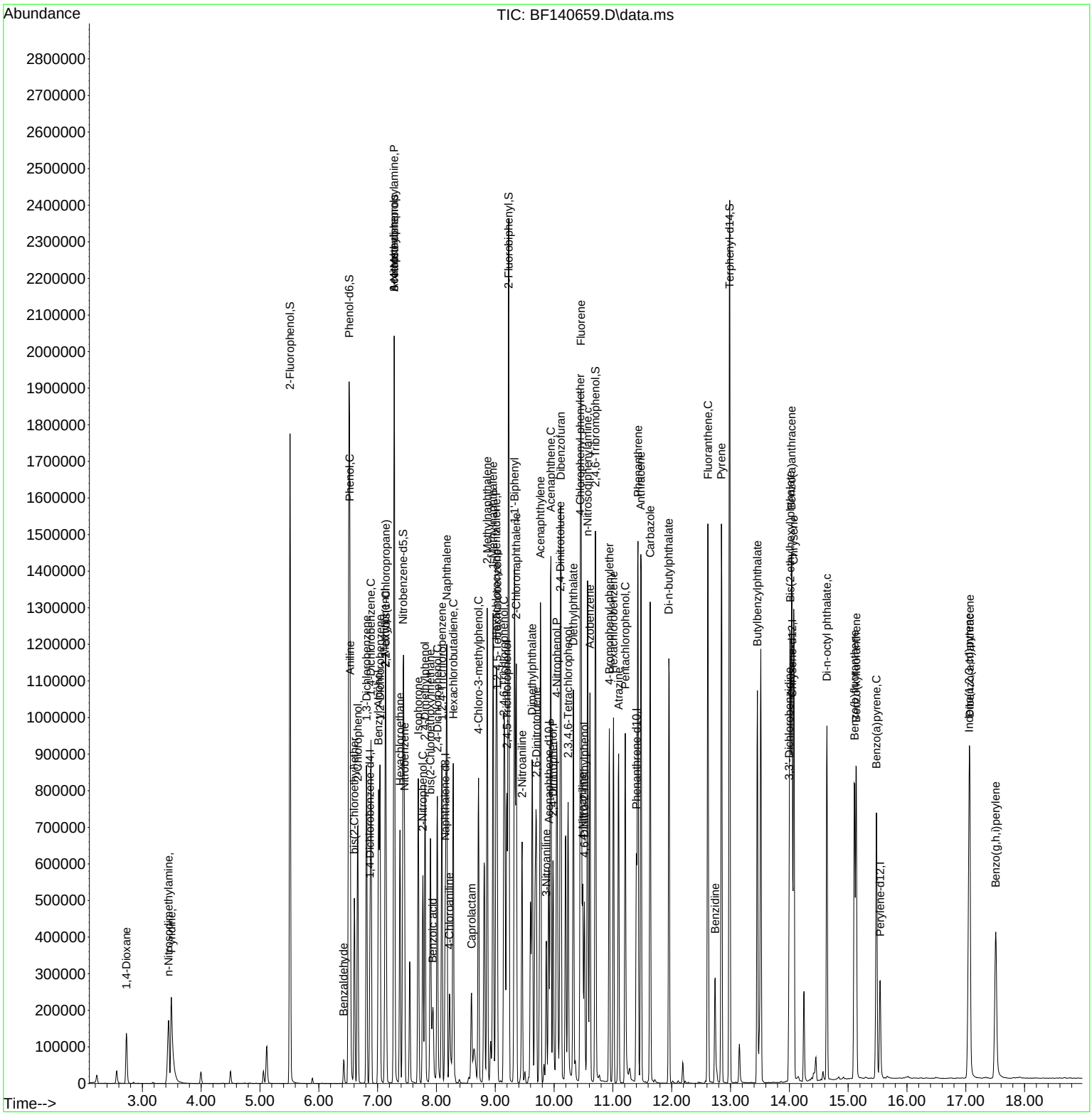
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112724\
Data File : BF140659.D
Acq On : 27 Nov 2024 10:30
Operator : RC/JU
Sample : PB165144BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 27 11:15:37 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 :
PB165144BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 11/29/2024



Raw Data: **BF140613.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	11/15/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4921
Lab Sample ID:	P4892-03MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140613.D	1	11/20/24 11:30	11/25/24 19:52	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	400		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	320		8.40	50.0	ug/L
95-48-7	2-Methylphenol	470		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	470		11.5	100	ug/L
67-72-1	Hexachloroethane	300		10.1	50.0	ug/L
98-95-3	Nitrobenzene	440		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	380		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	520		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	520		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	540		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	510		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1200	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		10 - 139	88%	SPK: 150
13127-88-3	Phenol-d6	120		10 - 134	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.5		49 - 133	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.8		52 - 132	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		44 - 137	106%	SPK: 150
1718-51-0	Terphenyl-d14	104		48 - 125	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62100	6.869			
1146-65-2	Naphthalene-d8	222000	8.151			
15067-26-2	Acenaphthene-d10	122000	9.91			
1517-22-2	Phenanthrene-d10	234000	11.398			
1719-03-5	Chrysene-d12	143000	14.045			
1520-96-3	Perylene-d12	140000	15.539			

Raw Data: **BF140613.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	11/15/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4921
Lab Sample ID:	P4892-03MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140613.D	1	11/20/24 11:30	11/25/24 19:52	PB165144

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: **BF140613.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140613.D
Acq On : 25 Nov 2024 19:52
Operator : RC/JU
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 26 01:33:09 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

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	62131	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	221607	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	122175	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	233749	20.000	ng		0.00
76) Chrysene-d12	14.045	240	142609	20.000	ng		0.00
86) Perylene-d12	15.539	264	139916	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	480816	132.039	ng		0.00
7) Phenol-d6	6.510	99	577527	119.966	ng		0.00
23) Nitrobenzene-d5	7.434	82	431155	99.517	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	207310	158.655	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	793877	96.815	ng		0.00
79) Terphenyl-d14	12.980	244	953400	104.101	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.710	88	60736	39.670	ng		98
3) Pyridine	3.469	79	135391	40.192	ng		100
4) n-Nitrosodimethylamine	3.393	42	84881	42.872	ng		94
6) Aniline	6.534	93	98042	28.934	ng	#	70
8) 2-Chlorophenol	6.663	128	180708	46.126	ng		95
9) Benzaldehyde	6.428	77	7314	2.870	ng		96
10) Phenol	6.522	94	207548	42.215	ng		92
11) bis(2-Chloroethyl)ether	6.604	93	165298	43.937	ng		100
12) 1,3-Dichlorobenzene	6.810	146	137092	31.143	ng		99
13) 1,4-Dichlorobenzene	6.887	146	142773	32.032	ng		99
14) 1,2-Dichlorobenzene	7.039	146	143542	34.368	ng		99
15) Benzyl Alcohol	7.016	79	173262	48.531	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.139	45	192626	43.340	ng		88
17) 2-Methylphenol	7.128	107	146144	46.601	ng		99
18) Hexachloroethane	7.381	117	50313	30.223	ng		98
19) n-Nitroso-di-n-propyla...	7.281	70	133035	46.759	ng		98
20) 3+4-Methylphenols	7.281	107	189738	47.071	ng	#	88
22) Acetophenone	7.281	105	258375	47.824	ng		98
24) Nitrobenzene	7.451	77	198594	44.351	ng		99
25) Isophorone	7.692	82	362961	50.228	ng		99
26) 2-Nitrophenol	7.769	139	95271	48.012	ng		99
27) 2,4-Dimethylphenol	7.804	122	151571m	63.841	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	214347	48.690	ng		99
29) 2,4-Dichlorophenol	8.016	162	162076	51.518	ng		97
30) 1,2,4-Trichlorobenzene	8.092	180	148140	41.241	ng		98
31) Naphthalene	8.175	128	509377	44.625	ng		99
32) Benzoic acid	7.928	122	95012	46.288	ng		99
33) 4-Chloroaniline	8.228	127	44466	13.011	ng		97
34) Hexachlorobutadiene	8.286	225	91159	38.315	ng		99
35) Caprolactam	8.586	113	43981m	45.174	ng		
36) 4-Chloro-3-methylphenol	8.710	107	180333	51.197	ng		99
37) 2-Methylnaphthalene	8.863	142	356471	49.167	ng		100
38) 1-Methylnaphthalene	8.963	142	332678	46.813	ng		100
40) 1,2,4,5-Tetrachloroben...	9.028	216	176202	49.264	ng		99
41) Hexachlorocyclopentadiene	9.016	237	131931	156.436	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	115856	51.622	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140613.D
Acq On : 25 Nov 2024 19:52
Operator : RC/JU
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

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

Quant Time: Nov 26 01:33:09 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)
44) 2,4,5-Trichlorophenol	9.192	196	126594	51.974	ng	98
46) 1,1'-Biphenyl	9.328	154	451328	49.479	ng	99
47) 2-Chloronaphthalene	9.351	162	339951	49.185	ng	99
48) 2-Nitroaniline	9.451	65	121982	54.983	ng	99
49) Acenaphthylene	9.769	152	576890	55.241	ng	99
50) Dimethylphthalate	9.628	163	423095	52.582	ng	100
51) 2,6-Dinitrotoluene	9.692	165	92350	50.606	ng	98
52) Acenaphthene	9.939	154	347150	52.317	ng	99
53) 3-Nitroaniline	9.863	138	40331	22.597	ng	97
54) 2,4-Dinitrophenol	9.975	184	95599	99.083	ng	99
55) Dibenzofuran	10.116	168	529228	52.289	ng	99
56) 4-Nitrophenol	10.039	139	130842	107.491	ng	98
57) 2,4-Dinitrotoluene	10.098	165	131881	54.377	ng	97
58) Fluorene	10.457	166	430529	52.995	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	109906	58.712	ng	95
60) Diethylphthalate	10.328	149	424041	51.869	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	207770	52.113	ng	98
62) 4-Nitroaniline	10.480	138	100087	53.467	ng	97
63) Azobenzene	10.610	77	407336	52.614	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	69222	57.952	ng	100
66) n-Nitrosodiphenylamine	10.569	169	366728	53.052	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	124486	51.713	ng	96
68) Hexachlorobenzene	11.004	284	143124	51.347	ng	96
69) Atrazine	11.092	200	121415	62.436	ng	99
70) Pentachlorophenol	11.210	266	145390	118.513	ng	99
71) Phenanthrene	11.422	178	627848	55.878	ng	100
72) Anthracene	11.474	178	635239	57.796	ng	100
73) Carbazole	11.633	167	605108	57.229	ng	100
74) Di-n-butylphthalate	11.951	149	666795	54.624	ng	99
75) Fluoranthene	12.616	202	700692	57.436	ng	99
77) Benzidine	12.733	184	73119	17.635	ng	100
78) Pyrene	12.845	202	713798	54.133	ng	99
80) Butylbenzylphthalate	13.457	149	243532	51.269	ng	99
81) Benzo(a)anthracene	14.033	228	503621	53.349	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	75498	26.637	ng	99
83) Chrysene	14.074	228	474768	55.001	ng	99
84) Bis(2-ethylhexyl)phtha...	14.010	149	312333	52.073	ng	99
85) Di-n-octyl phthalate	14.639	149	448346	54.696	ng	98
87) Indeno(1,2,3-cd)pyrene	17.045	276	520377	57.070	ng	99
88) Benzo(b)fluoranthene	15.104	252	435157	49.515	ng	100
89) Benzo(k)fluoranthene	15.133	252	424758	55.231	ng	100
90) Benzo(a)pyrene	15.474	252	420698	58.875	ng	99
91) Dibenzo(a,h)anthracene	17.056	278	424791	56.886	ng	99
92) Benzo(g,h,i)perylene	17.503	276	386129	50.673	ng	99

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

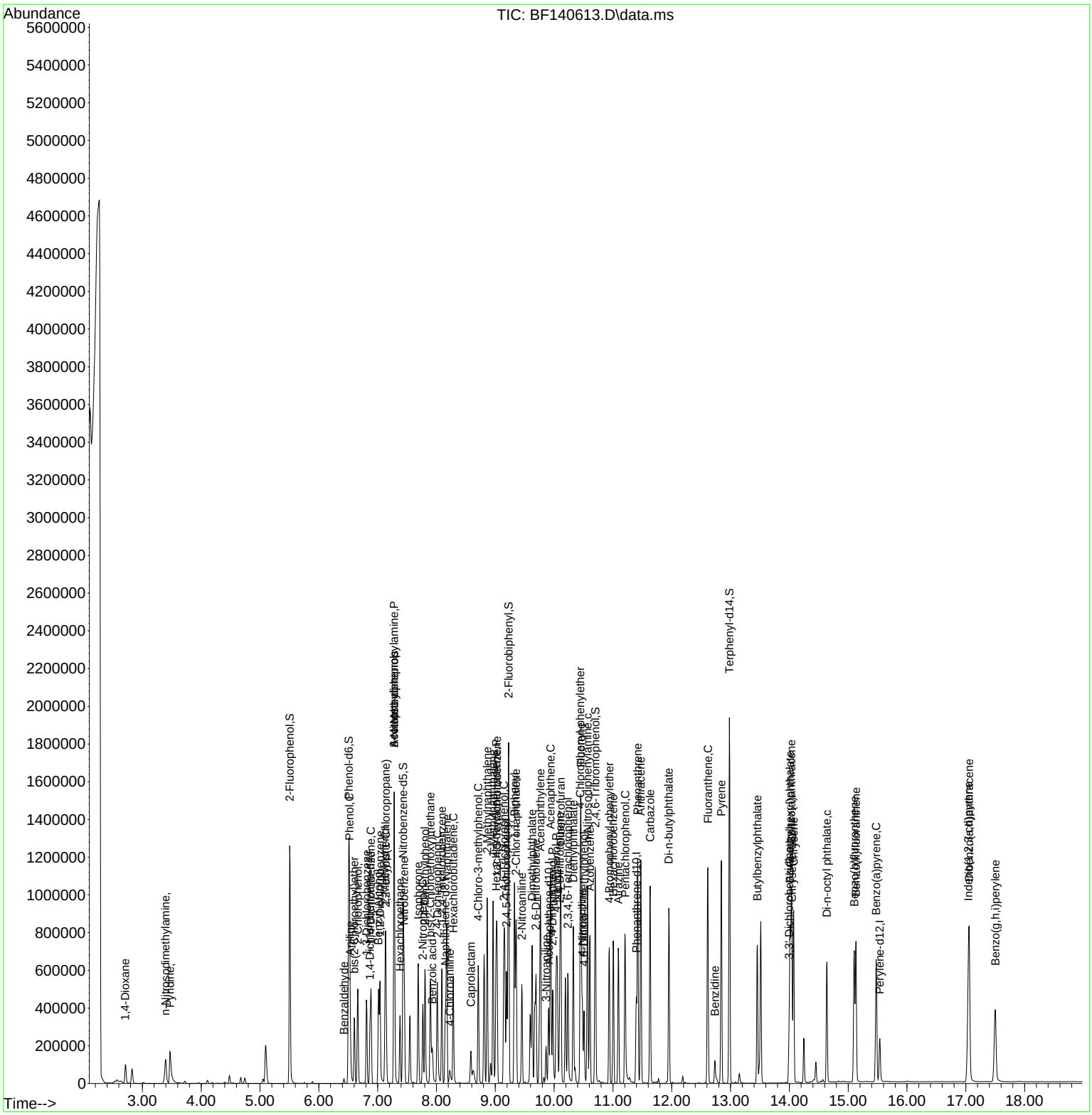
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140613.D
Acq On : 25 Nov 2024 19:52
Operator : RC/JU
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 26 01:33:09 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

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

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



Raw Data: **BF140614.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	11/15/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4921
Lab Sample ID:	P4892-03MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140614.D	1	11/20/24 11:30	11/25/24 20:18	PB165144

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	370		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	290		8.40	50.0	ug/L
95-48-7	2-Methylphenol	430		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	440		11.5	100	ug/L
67-72-1	Hexachloroethane	280		10.1	50.0	ug/L
98-95-3	Nitrobenzene	400		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	350		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	480		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	480		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	500		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	460		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		10 - 139	81%	SPK: 150
13127-88-3	Phenol-d6	111		10 - 134	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.2		49 - 133	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.0		52 - 132	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		44 - 137	96%	SPK: 150
1718-51-0	Terphenyl-d14	98.2		48 - 125	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68400	6.869			
1146-65-2	Naphthalene-d8	251000	8.151			
15067-26-2	Acenaphthene-d10	136000	9.91			
1517-22-2	Phenanthrene-d10	266000	11.398			
1719-03-5	Chrysene-d12	158000	14.045			
1520-96-3	Perylene-d12	154000	15.545			

Raw Data: **BF140614.D**

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

Report of Analysis

Client:	AECOM	Date Collected:	11/15/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4921
Lab Sample ID:	P4892-03MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140614.D	1	11/20/24 11:30	11/25/24 20:18	PB165144

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: **BF140614.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140614.D
Acq On : 25 Nov 2024 20:18
Operator : RC/JU
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 01:34:27 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

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	68388	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	250576	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	136071	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	265977	20.000	ng		0.00
76) Chrysene-d12	14.045	240	158457	20.000	ng		0.00
86) Perylene-d12	15.545	264	154128	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	487107	121.528	ng		0.00
7) Phenol-d6	6.510	99	588940	111.144	ng		0.00
23) Nitrobenzene-d5	7.433	82	441755	90.176	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	209536	143.982	ng		0.00
45) 2-Fluorobiphenyl	9.227	172	812987	89.020	ng		0.00
79) Terphenyl-d14	12.980	244	998992	98.169	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.716	88	61794	36.668	ng		98
3) Pyridine	3.469	79	136635	36.850	ng		99
4) n-Nitrosodimethylamine	3.398	42	86359	39.628	ng		94
6) Aniline	6.534	93	100493	26.944	ng	#	75
8) 2-Chlorophenol	6.663	128	180932	41.958	ng		95
9) Benzaldehyde	6.428	77	7953	2.835	ng		97
10) Phenol	6.522	94	207484	38.341	ng		92
11) bis(2-Chloroethyl)ether	6.604	93	170117	41.081	ng		99
12) 1,3-Dichlorobenzene	6.810	146	139108	28.709	ng		99
13) 1,4-Dichlorobenzene	6.886	146	144489	29.451	ng		99
14) 1,2-Dichlorobenzene	7.039	146	143897	31.301	ng		99
15) Benzyl Alcohol	7.016	79	178620	45.455	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.139	45	198751	40.626	ng		91
17) 2-Methylphenol	7.128	107	149816	43.401	ng		97
18) Hexachloroethane	7.381	117	51686	28.207	ng		100
19) n-Nitroso-di-n-propyla...	7.281	70	135806	43.366	ng		98
20) 3+4-Methylphenols	7.281	107	195530	44.070	ng		91
22) Acetophenone	7.281	105	262476	42.966	ng		98
24) Nitrobenzene	7.451	77	204116	40.315	ng		99
25) Isophorone	7.692	82	373232	45.679	ng		99
26) 2-Nitrophenol	7.769	139	97570	43.486	ng		100
27) 2,4-Dimethylphenol	7.804	122	152516m	56.812	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	219376	44.072	ng		99
29) 2,4-Dichlorophenol	8.016	162	165314	46.472	ng		98
30) 1,2,4-Trichlorobenzene	8.092	180	149998	36.931	ng		100
31) Naphthalene	8.175	128	516754	40.037	ng		99
32) Benzoic acid	7.928	122	98272	42.955	ng		99
33) 4-Chloroaniline	8.228	127	47085	12.184	ng		99
34) Hexachlorobutadiene	8.286	225	93509	34.759	ng		99
35) Caprolactam	8.586	113	45577m	41.401	ng		
36) 4-Chloro-3-methylphenol	8.710	107	183294	46.021	ng		98
37) 2-Methylnaphthalene	8.863	142	362690	44.242	ng		100
38) 1-Methylnaphthalene	8.963	142	334560	41.635	ng		99
40) 1,2,4,5-Tetrachloroben...	9.027	216	178801	44.886	ng		99
41) Hexachlorocyclopentadiene	9.016	237	135486	144.814	ng		97
43) 2,4,6-Trichlorophenol	9.145	196	119232	47.701	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140614.D
Acq On : 25 Nov 2024 20:18
Operator : RC/JU
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

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

Quant Time: Nov 26 01:34:27 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	9.192	196	129606	47.776	ng	98
46) 1,1'-Biphenyl	9.327	154	464325	45.705	ng	99
47) 2-Chloronaphthalene	9.351	162	345698	44.908	ng	99
48) 2-Nitroaniline	9.451	65	122141	49.433	ng	99
49) Acenaphthylene	9.769	152	583694	50.185	ng	99
50) Dimethylphthalate	9.627	163	443335	49.471	ng	100
51) 2,6-Dinitrotoluene	9.692	165	95189	46.835	ng	96
52) Acenaphthene	9.939	154	355666	48.127	ng	98
53) 3-Nitroaniline	9.863	138	44625	22.449	ng	96
54) 2,4-Dinitrophenol	9.980	184	101741	95.027	ng	96
55) Dibenzofuran	10.116	168	543099	48.180	ng	99
56) 4-Nitrophenol	10.039	139	131867	97.270	ng	98
57) 2,4-Dinitrotoluene	10.098	165	136165	50.410	ng	96
58) Fluorene	10.457	166	432577	47.809	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	115986	55.632	ng	93
60) Diethylphthalate	10.327	149	445170	48.892	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	210620	47.433	ng	99
62) 4-Nitroaniline	10.480	138	103456	49.623	ng	98
63) Azobenzene	10.610	77	418948	48.588	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	72339	53.224	ng	98
66) n-Nitrosodiphenylamine	10.569	169	380471	48.371	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	125800	45.927	ng	98
68) Hexachlorobenzene	11.010	284	144983	45.712	ng	99
69) Atrazine	11.092	200	125336	56.642	ng	98
70) Pentachlorophenol	11.204	266	150143	107.558	ng	100
71) Phenanthrene	11.421	178	641827	50.201	ng	99
72) Anthracene	11.474	178	654706	52.350	ng	99
73) Carbazole	11.633	167	623193	51.798	ng	99
74) Di-n-butylphthalate	11.951	149	693409	49.921	ng	100
75) Fluoranthene	12.616	202	713438	51.395	ng	100
77) Benzidine	12.733	184	84067	18.247	ng	99
78) Pyrene	12.845	202	734707	50.146	ng	99
80) Butylbenzylphthalate	13.457	149	260689	49.392	ng	100
81) Benzo(a)anthracene	14.039	228	533478	50.860	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	80889	25.685	ng	96
83) Chrysene	14.074	228	477909	49.828	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	331820	49.789	ng	99
85) Di-n-octyl phthalate	14.645	149	476576	52.325	ng	98
87) Indeno(1,2,3-cd)pyrene	17.056	276	504658	50.243	ng	99
88) Benzo(b)fluoranthene	15.109	252	429558	44.371	ng	99
89) Benzo(k)fluoranthene	15.139	252	442743	52.261	ng	100
90) Benzo(a)pyrene	15.480	252	417691	53.064	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	414830	50.429	ng	99
92) Benzo(g,h,i)perylene	17.509	276	373682	44.517	ng	98

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

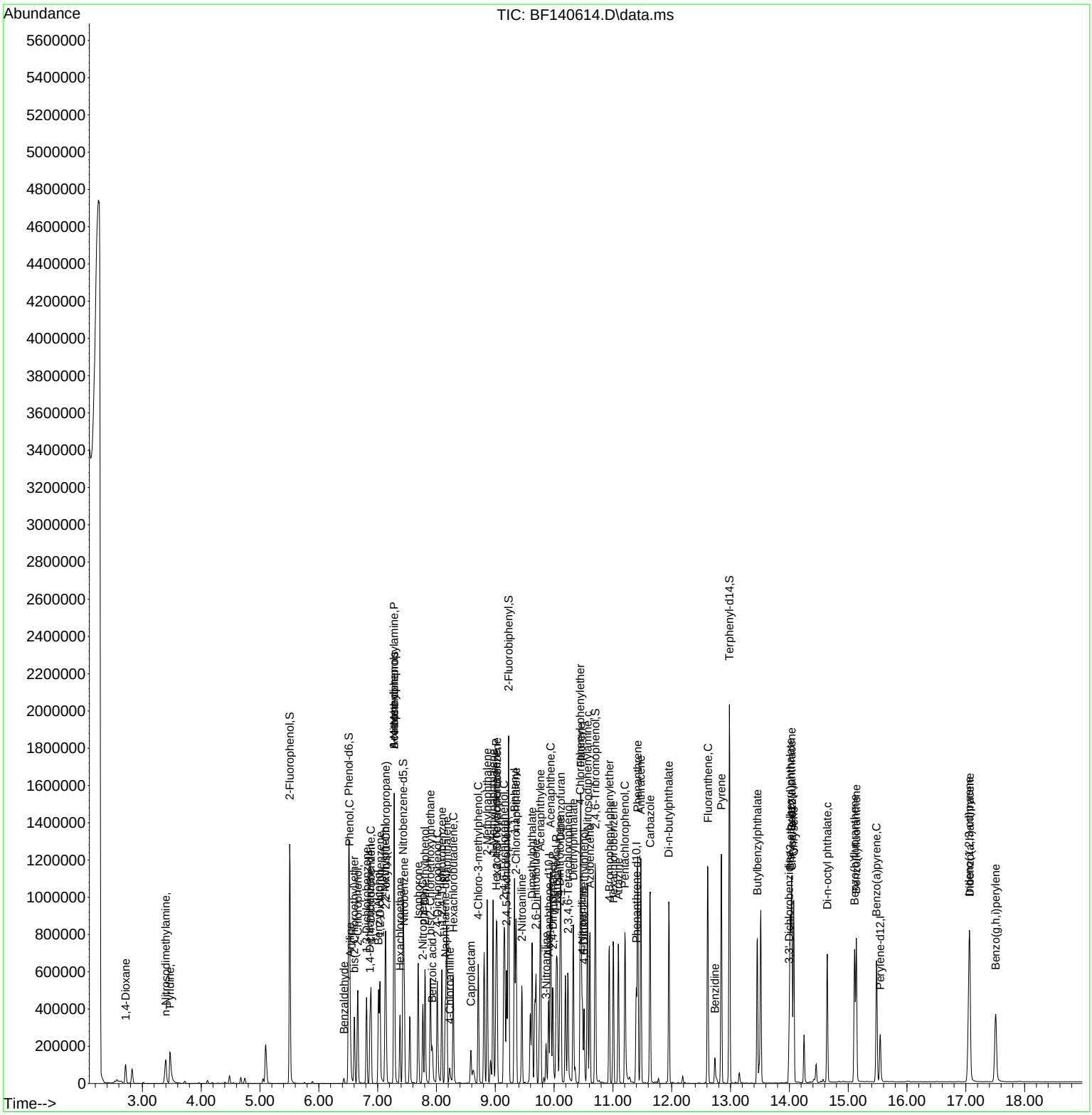
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140614.D
Acq On : 25 Nov 2024 20:18
Operator : RC/JU
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 01:34:27 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

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

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



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:	bf112524	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140590.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:26:43 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
SSTDCCC040	BF140604.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:03 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MS	BF140613.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:11 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MS	BF140613.D	Caprolactam	yogesh	11/27/2024 5:27:11 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MSD	BF140614.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:13 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
P4892-03MSD	BF140614.D	Caprolactam	yogesh	11/27/2024 5:27:13 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf112724	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140655.D	2,4-Dimethylphenol	yogesh	11/29/2024 12:45:59 AM	mohammad	11/29/2024 12:50:46 AM	Peak Integrated by Software
PB165144BS	BF140659.D	Caprolactam	yogesh	11/29/2024 12:46:01 AM	mohammad	11/29/2024 12:50:46 AM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # 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

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM				
SubDirectory	BF112524	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	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140589.D	25 Nov 2024 09:07	RC/JU	Ok
2	SSTDCCC040	BF140590.D	25 Nov 2024 09:33	RC/JU	Ok,M
3	PB165123TB	BF140591.D	25 Nov 2024 09:59	RC/JU	Ok
4	PB165155BS	BF140592.D	25 Nov 2024 10:25	RC/JU	Ok,M
5	PB165155BL	BF140593.D	25 Nov 2024 10:51	RC/JU	Ok
6	PB165086BS	BF140594.D	25 Nov 2024 11:17	RC/JU	Ok,M
7	PB165111TB	BF140595.D	25 Nov 2024 11:43	RC/JU	Ok
8	PB165052BS	BF140596.D	25 Nov 2024 12:09	RC/JU	Ok,M
9	PB164986TB	BF140597.D	25 Nov 2024 12:36	RC/JU	Ok
10	PB165152BS	BF140598.D	25 Nov 2024 13:02	RC/JU	Ok,M
11	PB164886TB	BF140599.D	25 Nov 2024 13:27	RC/JU	Ok
12	PB165152BSD	BF140600.D	25 Nov 2024 13:54	RC/JU	Ok,M
13	PB165152BL	BF140601.D	25 Nov 2024 14:28	RC/JU	Ok
14	PB165185BS	BF140602.D	25 Nov 2024 14:54	RC/JU	Ok,M
15	DFTPP	BF140603.D	25 Nov 2024 15:23	RC/JU	Ok
16	SSTDCCC040	BF140604.D	25 Nov 2024 15:49	RC/JU	Ok,M
17	PB165052BL	BF140605.D	25 Nov 2024 16:17	RC/JU	Ok
18	P4947-01	BF140606.D	25 Nov 2024 16:49	RC/JU	Ok
19	P4892-04	BF140607.D	25 Nov 2024 17:15	RC/JU	Ok
20	P4860-09	BF140608.D	25 Nov 2024 17:41	RC/JU	Ok
21	P4860-01	BF140609.D	25 Nov 2024 18:07	RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	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	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4960-01	BF140610.D	25 Nov 2024 18:34	RC/JU	Ok
23	P4960-05	BF140611.D	25 Nov 2024 19:00	RC/JU	Ok
24	P4892-03	BF140612.D	25 Nov 2024 19:26	RC/JU	Ok
25	P4892-03MS	BF140613.D	25 Nov 2024 19:52	RC/JU	Ok,M
26	P4892-03MSD	BF140614.D	25 Nov 2024 20:18	RC/JU	Ok,M
27	P4860-06	BF140615.D	25 Nov 2024 20:45	RC/JU	Ok
28	P4860-09MS	BF140616.D	25 Nov 2024 21:11	RC/JU	Not Ok
29	P4860-09MSD	BF140617.D	25 Nov 2024 21:37	RC/JU	Not Ok
30	P4960-03	BF140618.D	25 Nov 2024 22:03	RC/JU	ReRun
31	P4860-10	BF140619.D	25 Nov 2024 22:29	RC/JU	ReRun
32	P4860-04	BF140620.D	25 Nov 2024 22:55	RC/JU	Ok
33	P4860-07	BF140621.D	25 Nov 2024 23:22	RC/JU	Ok
34	P4860-03	BF140622.D	25 Nov 2024 23:48	RC/JU	Ok
35	P4951-01	BF140623.D	26 Nov 2024 00:14	RC/JU	ReRun
36	P4954-01	BF140624.D	26 Nov 2024 00:40	RC/JU	Ok,M
37	P4954-01MS	BF140625.D	26 Nov 2024 01:06	RC/JU	Ok,M
38	P4954-01MSD	BF140626.D	26 Nov 2024 01:32	RC/JU	Ok,M
39	P4954-03	BF140627.D	26 Nov 2024 01:58	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM				
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM				
SubDirectory	BF112724	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	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140654.D	27 Nov 2024 08:19	RC/JU	Ok
2	SSTDCCC040	BF140655.D	27 Nov 2024 08:47	RC/JU	Ok,M
3	PB165255BL	BF140656.D	27 Nov 2024 09:13	RC/JU	Ok
4	PB165255BS	BF140657.D	27 Nov 2024 09:38	RC/JU	Ok,M
5	PB165269BL	BF140658.D	27 Nov 2024 10:05	RC/JU	Ok
6	PB165144BS	BF140659.D	27 Nov 2024 10:30	RC/JU	Ok,M
7	PB165159TB	BF140660.D	27 Nov 2024 10:56	RC/JU	Ok
8	PB165269BS	BF140661.D	27 Nov 2024 11:22	RC/JU	Ok,M
9	PB165252TB	BF140662.D	27 Nov 2024 11:48	RC/JU	Ok
10	P4985-08	BF140663.D	27 Nov 2024 12:19	RC/JU	Ok
11	P4938-04	BF140664.D	27 Nov 2024 12:45	RC/JU	Ok
12	P4938-04MS	BF140665.D	27 Nov 2024 13:11	RC/JU	Ok,M
13	P4938-04MSD	BF140666.D	27 Nov 2024 13:38	RC/JU	Ok,M
14	P4985-01	BF140667.D	27 Nov 2024 14:04	RC/JU	Ok
15	P4985-01MS	BF140668.D	27 Nov 2024 14:30	RC/JU	Not Ok
16	P4985-01MSD	BF140669.D	27 Nov 2024 14:55	RC/JU	Not Ok
17	P4985-04	BF140670.D	27 Nov 2024 15:22	RC/JU	Ok
18	P4938-08	BF140671.D	27 Nov 2024 15:48	RC/JU	Ok
19	P4995-02	BF140672.D	27 Nov 2024 16:14	RC/JU	Ok
20	P5000-04	BF140673.D	27 Nov 2024 16:40	RC/JU	Ok
21	P5000-08	BF140674.D	27 Nov 2024 17:06	RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM				
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM				
SubDirectory	BF112724	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	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4985-05	BF140675.D	27 Nov 2024 17:32	RC/JU	Ok
23	P5005-01	BF140676.D	27 Nov 2024 17:58	RC/JU	Ok,M
24	P5005-01MS	BF140677.D	27 Nov 2024 18:24	RC/JU	Ok,M
25	P5005-01MSD	BF140678.D	27 Nov 2024 18:50	RC/JU	Ok,M
26	P5019-01	BF140679.D	27 Nov 2024 19:16	RC/JU	Ok,M

M : Manual Integration

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Fax : 908 789 8922

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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	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	S12330,10ul/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	BF140589.D	25 Nov 2024 09:07		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140590.D	25 Nov 2024 09:33		RC/JU	Ok,M
3	PB165123TB	PB165123TB	BF140591.D	25 Nov 2024 09:59		RC/JU	Ok
4	PB165155BS	PB165155BS	BF140592.D	25 Nov 2024 10:25		RC/JU	Ok,M
5	PB165155BL	PB165155BL	BF140593.D	25 Nov 2024 10:51		RC/JU	Ok
6	PB165086BS	PB165086BS	BF140594.D	25 Nov 2024 11:17		RC/JU	Ok,M
7	PB165111TB	PB165111TB	BF140595.D	25 Nov 2024 11:43		RC/JU	Ok
8	PB165052BS	PB165052BS	BF140596.D	25 Nov 2024 12:09		RC/JU	Ok,M
9	PB164986TB	PB164986TB	BF140597.D	25 Nov 2024 12:36		RC/JU	Ok
10	PB165152BS	PB165152BS	BF140598.D	25 Nov 2024 13:02		RC/JU	Ok,M
11	PB164886TB	PB164886TB	BF140599.D	25 Nov 2024 13:27		RC/JU	Ok
12	PB165152BSD	PB165152BSD	BF140600.D	25 Nov 2024 13:54		RC/JU	Ok,M
13	PB165152BL	PB165152BL	BF140601.D	25 Nov 2024 14:28		RC/JU	Ok
14	PB165185BS	PB165185BS	BF140602.D	25 Nov 2024 14:54		RC/JU	Ok,M
15	DFTPP	DFTPP	BF140603.D	25 Nov 2024 15:23		RC/JU	Ok
16	SSTDCCC040	SSTDCCC040	BF140604.D	25 Nov 2024 15:49		RC/JU	Ok,M
17	PB165052BL	PB165052BL	BF140605.D	25 Nov 2024 16:17		RC/JU	Ok
18	P4947-01	A3988	BF140606.D	25 Nov 2024 16:49		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	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	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4892-04	WB-310-SW	BF140607.D	25 Nov 2024 17:15		RC/JU	Ok
20	P4860-09	PH2-BOT-006	BF140608.D	25 Nov 2024 17:41		RC/JU	Ok
21	P4860-01	DUP-01	BF140609.D	25 Nov 2024 18:07		RC/JU	Ok
22	P4960-01	B1	BF140610.D	25 Nov 2024 18:34		RC/JU	Ok
23	P4960-05	SW3	BF140611.D	25 Nov 2024 19:00		RC/JU	Ok
24	P4892-03	WB-310-BOT	BF140612.D	25 Nov 2024 19:26		RC/JU	Ok
25	P4892-03MS	WB-310-BOTMS	BF140613.D	25 Nov 2024 19:52		RC/JU	Ok,M
26	P4892-03MSD	WB-310-BOTMSD	BF140614.D	25 Nov 2024 20:18		RC/JU	Ok,M
27	P4860-06	PH2-BOT-009	BF140615.D	25 Nov 2024 20:45		RC/JU	Ok
28	P4860-09MS	PH2-BOT-006MS	BF140616.D	25 Nov 2024 21:11	MSD Not Ok	RC/JU	Not Ok
29	P4860-09MSD	PH2-BOT-006MSD	BF140617.D	25 Nov 2024 21:37	Internal Standard Fail	RC/JU	Not Ok
30	P4960-03	SW1	BF140618.D	25 Nov 2024 22:03	Internal Standard Fail	RC/JU	ReRun
31	P4860-10	PH2-BOT-005	BF140619.D	25 Nov 2024 22:29	Internal Standard Fail	RC/JU	ReRun
32	P4860-04	PH2-BOT-003	BF140620.D	25 Nov 2024 22:55		RC/JU	Ok
33	P4860-07	PH2-BOT-008	BF140621.D	25 Nov 2024 23:22		RC/JU	Ok
34	P4860-03	PH2-BOT-002	BF140622.D	25 Nov 2024 23:48		RC/JU	Ok
35	P4951-01	AU-05-112124	BF140623.D	26 Nov 2024 00:14	Internal Standard Fail	RC/JU	ReRun
36	P4954-01	TR-05-112124	BF140624.D	26 Nov 2024 00:40	Internal Standard Fail	RC/JU	Ok,M
37	P4954-01MS	TR-05-112124MS	BF140625.D	26 Nov 2024 01:06	Internal Standard Fail	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	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	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4954-01MSD	TR-05-112124MSD	BF140626.D	26 Nov 2024 01:32	Internal Standard Fail	RC/JU	Ok,M
39	P4954-03	TR-06-112124	BF140627.D	26 Nov 2024 01:58	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM		
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM		
SubDirectory	BF112724	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	S12330,10ul/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	BF140654.D	27 Nov 2024 08:19		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140655.D	27 Nov 2024 08:47		RC/JU	Ok,M
3	PB165255BL	PB165255BL	BF140656.D	27 Nov 2024 09:13		RC/JU	Ok
4	PB165255BS	PB165255BS	BF140657.D	27 Nov 2024 09:38		RC/JU	Ok,M
5	PB165269BL	PB165269BL	BF140658.D	27 Nov 2024 10:05		RC/JU	Ok
6	PB165144BS	PB165144BS	BF140659.D	27 Nov 2024 10:30		RC/JU	Ok,M
7	PB165159TB	PB165159TB	BF140660.D	27 Nov 2024 10:56		RC/JU	Ok
8	PB165269BS	PB165269BS	BF140661.D	27 Nov 2024 11:22		RC/JU	Ok,M
9	PB165252TB	PB165252TB	BF140662.D	27 Nov 2024 11:48		RC/JU	Ok
10	P4985-08	MH-740-WC	BF140663.D	27 Nov 2024 12:19		RC/JU	Ok
11	P4938-04	MH-732	BF140664.D	27 Nov 2024 12:45		RC/JU	Ok
12	P4938-04MS	MH-732MS	BF140665.D	27 Nov 2024 13:11		RC/JU	Ok,M
13	P4938-04MSD	MH-732MSD	BF140666.D	27 Nov 2024 13:38		RC/JU	Ok,M
14	P4985-01	MH-756-WC	BF140667.D	27 Nov 2024 14:04		RC/JU	Ok
15	P4985-01MS	MH-756-WCMS	BF140668.D	27 Nov 2024 14:30	Recovery fail for many compound	RC/JU	Not Ok
16	P4985-01MSD	MH-756-WCMSD	BF140669.D	27 Nov 2024 14:55	MS not ok	RC/JU	Not Ok
17	P4985-04	MH-756-WC	BF140670.D	27 Nov 2024 15:22		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112724

Review By	yogesh	Review On	11/29/2024 12:46:43 AM		
Supervise By	mohammad	Supervise On	11/29/2024 12:50:46 AM		
SubDirectory	BF112724	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	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4938-08	MH-734	BF140671.D	27 Nov 2024 15:48		RC/JU	Ok
19	P4995-02	001	BF140672.D	27 Nov 2024 16:14		RC/JU	Ok
20	P5000-04	MH-745	BF140673.D	27 Nov 2024 16:40		RC/JU	Ok
21	P5000-08	MH-733	BF140674.D	27 Nov 2024 17:06		RC/JU	Ok
22	P4985-05	MH-740-WC	BF140675.D	27 Nov 2024 17:32		RC/JU	Ok
23	P5005-01	STOCK-PILE	BF140676.D	27 Nov 2024 17:58		RC/JU	Ok,M
24	P5005-01MS	STOCK-PILEMS	BF140677.D	27 Nov 2024 18:24		RC/JU	Ok,M
25	P5005-01MSD	STOCK-PILEMSD	BF140678.D	27 Nov 2024 18:50		RC/JU	Ok,M
26	P5019-01	EO-02-11262024	BF140679.D	27 Nov 2024 19:16		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165123

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : N/A

Balance ID : N/A

pH Meter ID : WC PH METER-1

Extraction By : N/A

Filter By : JP

Pippete ID : N/A

Tumbler ID : N/A

TCLP Filter ID : 114771

Start Prep Date : N/A **Time :** N/A

End Prep Date : N/A **Time :** N/A

Combination Ratio : N/A

ZHE Cleaning Batch : N/A

Initial Room Temperature: N/A

Final Room Temperature: N/A

TCLP Technician Signature : JP

Supervisor By : JZ

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
N/A	N/A	N/A
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. p4921-01 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/22 11:00	JP / TCLP Room	JPP / 1024 DIG
	Preparation Group	Analysis Group / EXT

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165123

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP WATER P4921 **WorkList ID :** 185591 **Department :** TCLP Extraction **Date :** 11-20-2024 07:53:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4921-01	WC-11-A-202411	Water	TCLP Extraction	Cool 4 deg C	AECO02	L61	11/19/2024	1311

Date/Time 11-20-22 08:00
Raw Sample Received by: JB (WC)
Raw Sample Relinquished by: CP SM

Date/Time 11-20-22 11:00
Raw Sample Received by: CP SM
Raw Sample Relinquished by: JB (WC)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165144

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#: N/A

Extraction By: RJ

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 11/20/2024

Extraction Start Time : 11:30

Extraction End Date : 11/20/2024

Extraction End Time : 16:25

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	E3829
Baked Na2SO4	N/A	EP2562
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2548
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
11/20/24	RP (Ext Lab)	AC/SVOC
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165144

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165060TB	PB165060TB	TCLP BNA	1000	6	RUPESH	rajesh	1			SEP-01
PB165111TB	PB165111TB	TCLP BNA	100	6	RUPESH	rajesh	1			2
PB165123TB	PB165123TB	TCLP BNA	100	6	RUPESH	rajesh	1			3
PB165144BL	PB165144BL	TCLP BNA	1000	6	RUPESH	rajesh	1			4
PB165144BS	PB165144BS	TCLP BNA	1000	6	RUPESH	rajesh	1			5
P4892-03	WB-310-BOT	TCLP BNA	100	6	RUPESH	rajesh	1	A		6
P4892-03MS	WB-310-BOTMS	TCLP BNA	100	6	RUPESH	rajesh	1	A		7
P4892-03MSD	WB-310-BOTMSD	TCLP BNA	100	6	RUPESH	rajesh	1	A		8
P4893-04	MH-763	TCLP BNA	100	6	RUPESH	rajesh	1	A		9
P4893-08	MH-762	TCLP BNA	100	6	RUPESH	rajesh	1	A		10
P4910-04	MH-COTTAGE	TCLP BNA	100	6	RUPESH	rajesh	1	A		11
P4910-08	MH-759	TCLP BNA	100	6	RUPESH	rajesh	1	A		12
P4916-04	TP-1-WC	TCLP BNA	100	6	RUPESH	rajesh	1	A		13
P4916-08	TP-2-WC	TCLP BNA	100	6	RUPESH	rajesh	1	A		14
P4916-12	TP-3-WC	TCLP BNA	100	6	RUPESH	rajesh	1	A		15
P4921-01	WC-11-A-202411	TCLP BNA	100	6	RUPESH	rajesh	1	A		16
P4924-04	MH-4	TCLP BNA	100	6	RUPESH	rajesh	1	A		SEP-01
P4925-04	MH-741	TCLP BNA	100	6	RUPESH	rajesh	1	A		2
P4925-08	MH-741	TCLP BNA	100	6	RUPESH	rajesh	1	A		3
P4929-02	ARS520	TCLP BNA	100	6	RUPESH	rajesh	1	A		4

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

11/20/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165111

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4916-04	TP-1-WC	01	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
P4916-08	TP-2-WC	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4916-12	TP-3-WC	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4923-02	COMP-1	04	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4923-03	COMP-2	05	100.01	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4923-04	COMP-3	06	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4923-05	COMP-4	07	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4923-07	72-11991	08	100.04	2000	N/A	N/A	N/A	8.6	1.0	T-1
P4924-04	MH-4	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4925-04	MH-741	10	100.01	2000	N/A	N/A	N/A	5.5	1.5	T-1
P4925-08	MH-741	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4929-02	ARS520	12	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-2
PB165111TB	LEB111	13	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

11/20/25

11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165123

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/A

11/20/24

11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB16506

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pr Pe
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

11/19/2024
10:30

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. P4921
QUOTE NO.
COC Number 2041714

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: AECOM
ADDRESS: 605 3rd Ave
CITY New York STATE: NY ZIP: 10158
ATTENTION: Amit Haryani
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Meeker Ave Superfund
PROJECT NO.: 60705866 LOCATION: Brooklyn
PROJECT MANAGER: Amit Haryani
e-mail: amit.haryani@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

FAX (RUSH) 3 day DAYS*
HARDCOPY (DATA PACKAGE): 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 TCLP VOA
2 TCLP BNA PCB.
3 TCLP Pesticides
4 TCLP Metal and Hem
5 React. Cyanide
6 React. Sulfide
7 pH
8 Flash Point
9 30 int Filter

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	WC-11-A-20241111	GW	X		11/19/24	0700	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	11/19/24	1. 1230 11-19-24
2.		2.
3.	1450 11-19-24	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.4 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (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 : P4921 AECO02
Client Name : AECOM
Client Contact : Amit Haryani
Invoice Name : AECOM
Invoice Contact : Amit Haryani

Order Date : 11/19/2024 12:44:00 PM
Project Name : Meeker Ave Plumes Superfi
Receive DateTime : 11/19/2024 ~~12:00:00~~ 14:50 AM
Purchase Order :

Project Mgr :
Report Type : Results+QC
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4921-01	WC-11-A-202411	Water	11/19/2024	07:00					
					TCLP VOA		8260D		3 Bus. Days

Relinguished By :
Date / Time : 11-19-24 1530

Received By :
Date / Time : 11.19.24 1530

Storage Area : VOA Refridgerator Room