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Cover Page

Order ID : P4871

Project ID : Meeker Ave Plumes Superfund Site RI FS

Client : AECOM

Lab Sample Number	Client Sample Number
P4871-01	WC-10-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: 11/27/2024

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 # P4871
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
1 Water sample was received on 11/14/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Cyanide, Flash Point, Paint Filter, 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 except for WC-10-A-202411, which is not associated for required compound.
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 {PB165052BS} with File ID: BF140596.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.

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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 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 #: **P4871**

	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:** **11/27/2024**

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LAB CHRONICLE

OrderID:	P4871	**OrderDate:**	11/15/2024 9:09:00 AM
Client:	AECOM	**Project:**	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	**Location:**	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4871-01	**WC-10-A-202411**	**TCLP**			**11/13/24**			**11/14/24**
			TCLP BNA	8270E		11/18/24	11/18/24	

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Hit Summary Sheet
SW-846

SDG No.: P4871

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.: P4871

Client: AECOM

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4848-02MS	TP-1MS	2-Fluorophenol	150	140	93		10	139
		Phenol-d6	150	136	91		10	134
		Nitrobenzene-d5	100	101	101		49	133
		2-Fluorobiphenyl	100	99.0	99		52	132
		2,4,6-Tribromophenol	150	159	106		44	137
		Terphenyl-d14	100	110	110		48	125
P4848-02MSD	TP-1MSD	2-Fluorophenol	150	144	96		10	139
		Phenol-d6	150	138	92		10	134
		Nitrobenzene-d5	100	104	104		49	133
		2-Fluorobiphenyl	100	100	100		52	132
		2,4,6-Tribromophenol	150	159	106		44	137
		Terphenyl-d14	100	113	113		48	125
P4871-01	WC-10-A-202411	2-Fluorophenol	150	129	86		10	139
		Phenol-d6	150	106	71		10	134
		Nitrobenzene-d5	100	97.8	98		49	133
		2-Fluorobiphenyl	100	123	123		52	132
		2,4,6-Tribromophenol	150	195	130		44	137
		Terphenyl-d14	100	122	122		48	125
PB165019TB	PB165019TB	2-Fluorophenol	150	126	84		10	139
		Phenol-d6	150	121	81		10	134
		Nitrobenzene-d5	100	86.6	87		49	133
		2-Fluorobiphenyl	100	87.6	88		52	132
		2,4,6-Tribromophenol	150	124	83		44	137
		Terphenyl-d14	100	85.9	86		48	125
PB165052BL	PB165052BL	2-Fluorophenol	150	138	92		10	139
		Phenol-d6	150	132	88		10	134
		Nitrobenzene-d5	100	92.2	92		49	133
		2-Fluorobiphenyl	100	92.9	93		52	132
		2,4,6-Tribromophenol	150	133	88		44	137
		Terphenyl-d14	100	102	102		48	125
PB165052BS	PB165052BS	2-Fluorophenol	150	136	91		10	139
		Phenol-d6	150	133	89		10	134
		Nitrobenzene-d5	100	90.2	90		49	133
		2-Fluorobiphenyl	100	91.1	91		52	132
		2,4,6-Tribromophenol	150	143	95		44	137
		Terphenyl-d14	100	89.0	89		48	125

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4871

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: P4848-02MS		**Client Sample ID: TP-1MS**						**DataFile: BF140465.D**			
Pyridine	500	0	320	ug/L	64				10	109	
1,4-Dichlorobenzene	500	0	400	ug/L	80				55	125	
2-Methylphenol	500	0	500	ug/L	100				37	126	
3+4-Methylphenols	500	0	510	ug/L	102				31	127	
Hexachloroethane	500	0	400	ug/L	80				49	110	
Nitrobenzene	500	0	460	ug/L	92				62	112	
Hexachlorobutadiene	500	0	430	ug/L	86				52	125	
2,4,6-Trichlorophenol	500	0	530	ug/L	106				78	112	
2,4,5-Trichlorophenol	500	0	520	ug/L	104				71	111	
2,4-Dinitrotoluene	500	0	530	ug/L	106				50	142	
Hexachlorobenzene	500	0	530	ug/L	106				72	115	
Pentachlorophenol	1000	0	1100	ug/L	110				25	139	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4871

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: P4848-02MSD		**Client Sample ID:** TP-1MSD						**DataFile:** BF140466.D			
Pyridine	500	0	320	ug/L	64	0			10	109	20
1,4-Dichlorobenzene	500	0	410	ug/L	82	2			55	125	20
2-Methylphenol	500	0	510	ug/L	102	2			37	126	20
3+4-Methylphenols	500	0	520	ug/L	104	2			31	127	20
Hexachloroethane	500	0	410	ug/L	82	2			49	110	20
Nitrobenzene	500	0	460	ug/L	92	0			62	112	20
Hexachlorobutadiene	500	0	440	ug/L	88	2			52	125	20
2,4,6-Trichlorophenol	500	0	550	ug/L	110	4			78	112	20
2,4,5-Trichlorophenol	500	0	520	ug/L	104	0			71	111	20
2,4-Dinitrotoluene	500	0	540	ug/L	108	2			50	142	20
Hexachlorobenzene	500	0	540	ug/L	108	2			72	115	20
Pentachlorophenol	1000	0	1100	ug/L	110	0			25	139	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4871

Client: AECOM

Analytical Method: 8270E **DataFile:** BF140596.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165052BS	Pyridine	50	49.3	ug/L	99		*		29	97	
	1,4-Dichlorobenzene	50	46.6	ug/L	93				76	103	
	2-Methylphenol	50	49.4	ug/L	99				69	109	
	3+4-Methylphenols	50	49.2	ug/L	98				67	106	
	Hexachloroethane	50	46.3	ug/L	93				76	118	
	Nitrobenzene	50	44.6	ug/L	89				58	106	
	Hexachlorobutadiene	50	44.9	ug/L	90				69	101	
	2,4,6-Trichlorophenol	50	48.0	ug/L	96				61	110	
	2,4,5-Trichlorophenol	50	47.2	ug/L	94				70	106	
	2,4-Dinitrotoluene	50	48.7	ug/L	97				60	115	
	Hexachlorobenzene	50	46.6	ug/L	93				73	106	
	Pentachlorophenol	100	100	ug/L	100				47	114	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165052BL

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140605.D Lab Sample ID: PB165052BL

Instrument ID: BNA_F Date Extracted: 11/18/2024

Matrix: (soil/water) water Date Analyzed: 11/25/2024

Level: (low/med) LOW Time Analyzed: 16:17

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WC-10-A-202411	P4871-01	BF140460.D	11/18/2024
TP-1MS	P4848-02MS	BF140465.D	11/19/2024
PB165019TB	PB165019TB	BF140464.D	11/19/2024
TP-1MSD	P4848-02MSD	BF140466.D	11/19/2024
PB165052BS	PB165052BS	BF140596.D	11/25/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	88.6
443	15.0 - 24.0% of mass 442	16.7 (18.8) 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	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140455.D DFTPP Injection Date: 11/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.7
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	34.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.2
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	27.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	16.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.2 (18.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140456.D	11/18/2024	16:14
WC-10-A-202411	P4871-01	BF140460.D	11/18/2024	18:06

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4871 SDG NO.: P4871

Lab File ID: BF140462.D DFTPP Injection Date: 11/19/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.7
442	Greater than 50% of mass 198	91.9
443	15.0 - 24.0% of mass 442	17 (18.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140463.D	11/19/2024	10:34
PB165019TB	PB165019TB	BF140464.D	11/19/2024	11:00
TP-1MS	P4848-02MS	BF140465.D	11/19/2024	11:36
TP-1MSD	P4848-02MSD	BF140466.D	11/19/2024	12:02

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4871 SDG NO.: P4871

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

Instrument ID: BNA_F DFTPP Injection Time: 10:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	48
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	99.8
443	15.0 - 24.0% of mass 442	18.1 (18.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140528.D	11/21/2024	11:13
SSTDICC005	SSTDICC005	BF140529.D	11/21/2024	11:39
SSTDICC010	SSTDICC010	BF140530.D	11/21/2024	12:05
SSTDICC020	SSTDICC020	BF140531.D	11/21/2024	12:32
SSTDICCC040	SSTDICCC040	BF140532.D	11/21/2024	12:58
SSTDICC050	SSTDICC050	BF140533.D	11/21/2024	13:25
SSTDICC060	SSTDICC060	BF140534.D	11/21/2024	13:51
SSTDICC080	SSTDICC080	BF140535.D	11/21/2024	14:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4871 SDG NO.: P4871

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
PB165052BS	PB165052BS	BF140596.D	11/25/2024	12:09

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM SAS No.: P4871 SDG NO.: P4871

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
PB165052BL	PB165052BL	BF140605.D	11/25/2024	16:17

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140456.D Time Analyzed: 16:14

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	136246	6.875	509583	8.16	277583	9.91
	UPPER LIMIT	272492	7.375	1019170	8.657	555166	10.41
	LOWER LIMIT	68123	6.375	254792	7.657	138792	9.41
	EPA SAMPLE NO.						
01	WC-10-A-202411	133008	6.88	502386	8.15	224448	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.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140456.D Time Analyzed: 16:14

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	499315	11.398	237967	14.045	262467		15.533
	UPPER LIMIT	998630	11.898	475934	14.545	524934		16.033
	LOWER LIMIT	249658	10.898	118984	13.545	131234		15.033
	EPA SAMPLE NO.							
01	WC-10-A-202411	533842	11.40	279485	14.04	12426	*	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.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/19/2024

Lab File ID: BF140463.D Time Analyzed: 10:34

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	137275	6.875	502770	8.16	278131	9.91
	UPPER LIMIT	274550	7.375	1005540	8.657	556262	10.41
	LOWER LIMIT	68637.5	6.375	251385	7.657	139066	9.41
	EPA SAMPLE NO.						
01	PB165019TB	144350	6.87	545389	8.15	303191	9.90
02	TP-1MS	148608	6.88	566127	8.15	313272	9.91
03	TP-1MSD	147727	6.88	561678	8.15	311833	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.: P4871 SAS No.: P4871 SDG NO.: P4871

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/19/2024

Lab File ID: BF140463.D Time Analyzed: 10:34

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	524892	11.398	344697	14.069	292973	15.592
	UPPER LIMIT	1049780	11.898	689394	14.569	585946	16.092
	LOWER LIMIT	262446	10.898	172349	13.569	146487	15.092
	EPA SAMPLE NO.						
01	PB165019TB	576588	11.40	369743	14.06	301857	15.57
02	TP-1MS	585294	11.40	347810	14.06	308234	15.57
03	TP-1MSD	573421	11.40	332365	14.06	278980	15.58

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.: P4871 SAS No.: P4871 SDG NO.: P4871

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	PB165052BS	94726	6.87	366046	8.15	205183	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.: P4871 SAS No.: P4871 SDG NO.: P4871

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	PB165052BS	398573	11.40	258584	14.06	208347	15.56

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG NO.: P4871

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	PB165052BL	100879	6.87	377922	8.15	213827	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.: P4871 SAS No.: P4871 SDG NO.: P4871

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	PB165052BL	407609	11.40	220442	14.05	187220	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: **BF140460.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	AECOM	Date Collected:	11/13/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	WC-10-A-202411	SDG No.:	P4871
Lab Sample ID:	P4871-01	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
BF140460.D	1	11/18/24 08:35	11/18/24 18:06	PB165052

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	129		10 - 139	86%	SPK: 150
13127-88-3	Phenol-d6	106		10 - 134	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.8		49 - 133	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	123		52 - 132	123%	SPK: 100
118-79-6	2,4,6-Tribromophenol	195		44 - 137	130%	SPK: 150
1718-51-0	Terphenyl-d14	122		48 - 125	122%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	133000	6.875			
1146-65-2	Naphthalene-d8	502000	8.151			
15067-26-2	Acenaphthene-d10	224000	9.904			
1517-22-2	Phenanthrene-d10	534000	11.398			
1719-03-5	Chrysene-d12	279000	14.039			
1520-96-3	Perylene-d12	12400	15.533			

Raw Data: **BF140460.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	AECOM			Date Collected:	11/13/24
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	11/14/24
Client Sample ID:	WC-10-A-202411			SDG No.:	P4871
Lab Sample ID:	P4871-01			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
BF140460.D	1	11/18/24 08:35	11/18/24 18:06	PB165052

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\BF111824\
Data File : BF140460.D
Acq On : 18 Nov 2024 18:06
Operator : RC/JU
Sample : P4871-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Quant Time: Nov 19 00:21:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

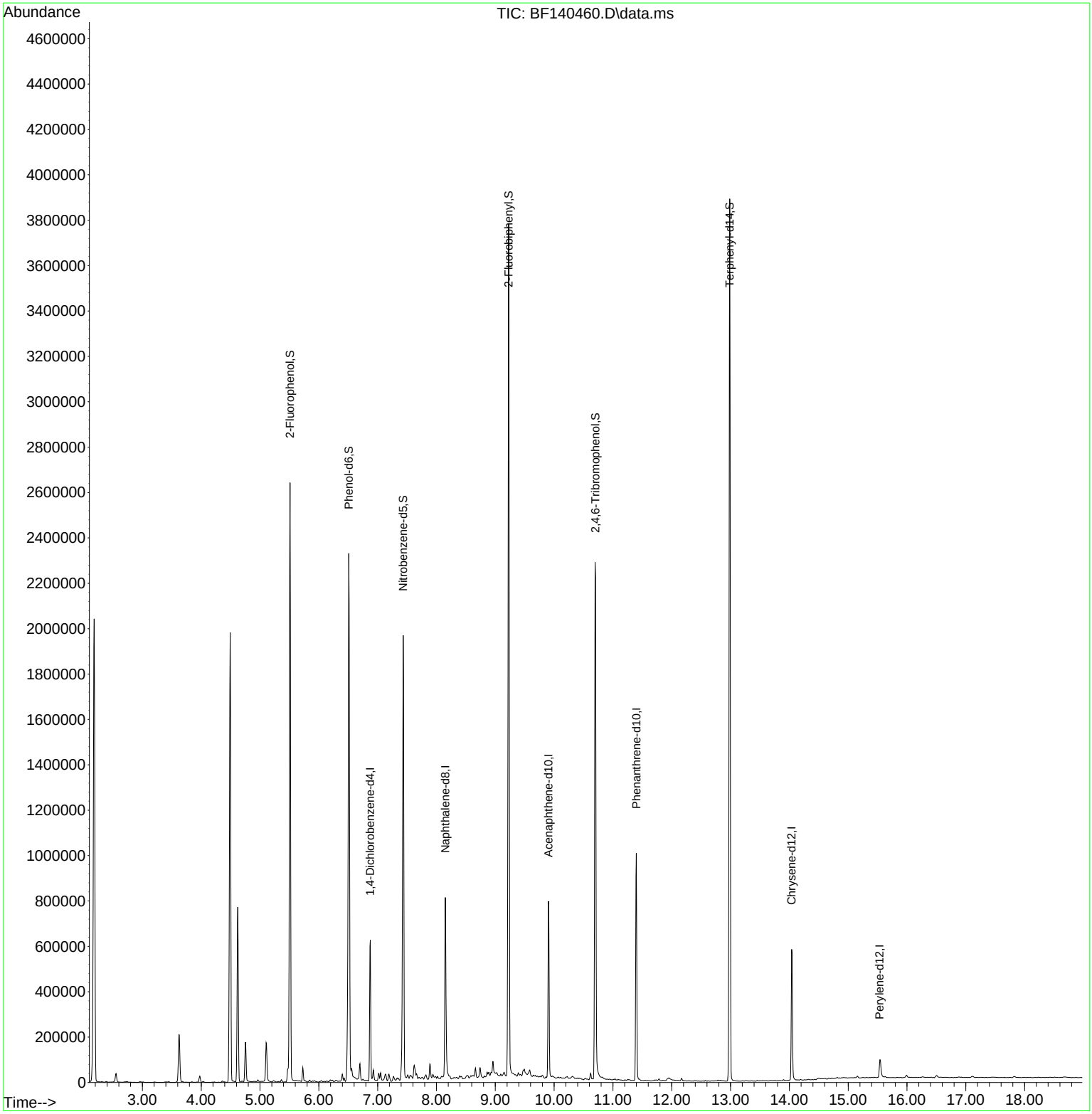
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	133008	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	502386	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	224448	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	533842	20.000	ng	0.00
76) Chrysene-d12	14.039	240	279485	20.000	ng	-0.01
86) Perylene-d12	15.533	264	12426	20.000	ng	#-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1004872	128.992	ng	0.02
7) Phenol-d6	6.510	99	1123881	106.485	ng	0.00
23) Nitrobenzene-d5	7.433	82	942762	97.774	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	435695	195.207	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1718923	123.113	ng	0.00
79) Terphenyl-d14	12.986	244	1967463	122.193	ng	0.00
Target Compounds						Qvalue

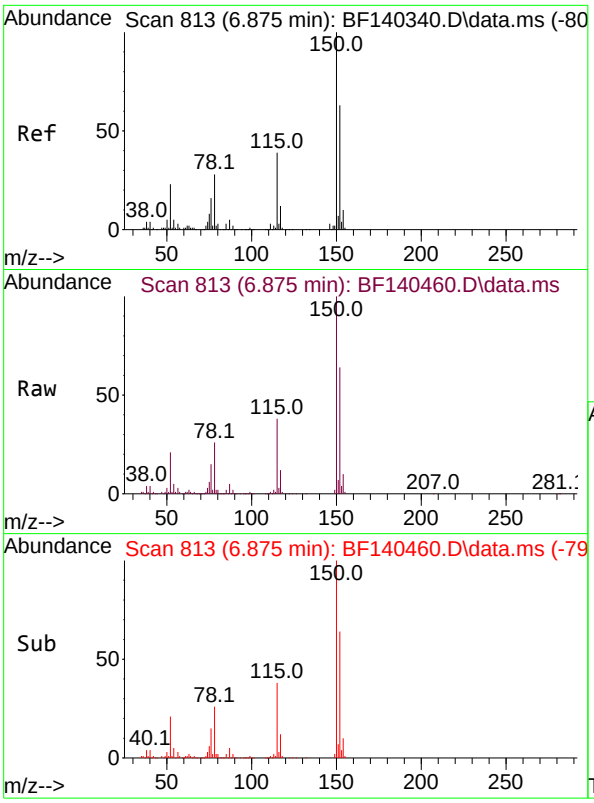
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140460.D
Acq On : 18 Nov 2024 18:06
Operator : RC/JU
Sample : P4871-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Quant Time: Nov 19 00:21:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



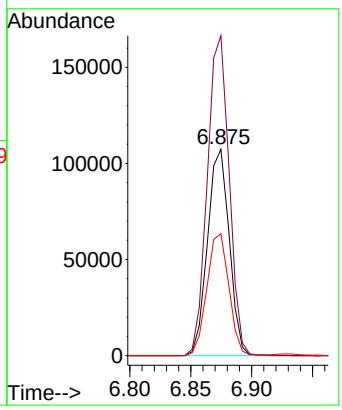


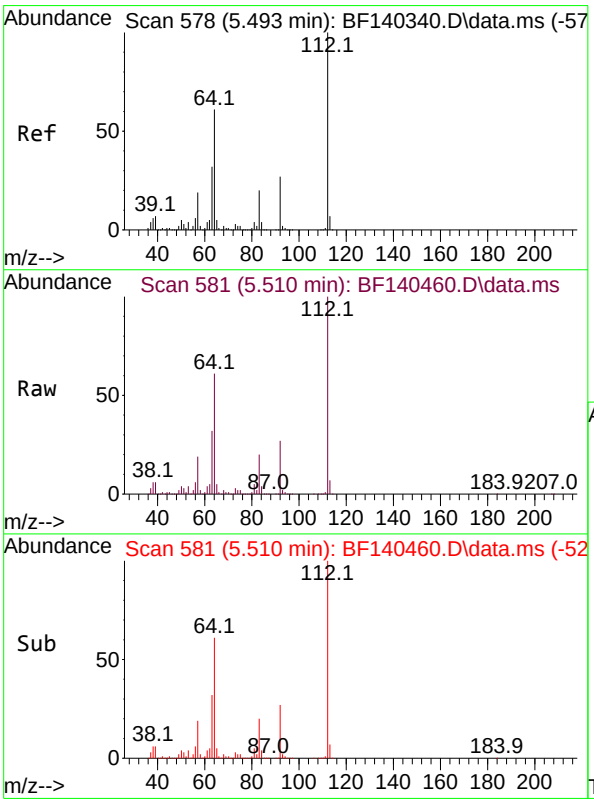
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Tgt Ion:152 Resp: 133008

Ion	Ratio	Lower	Upper
152	100		
150	155.1	127.4	191.0
115	59.1	47.4	71.2

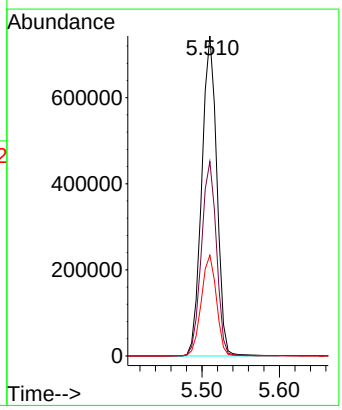


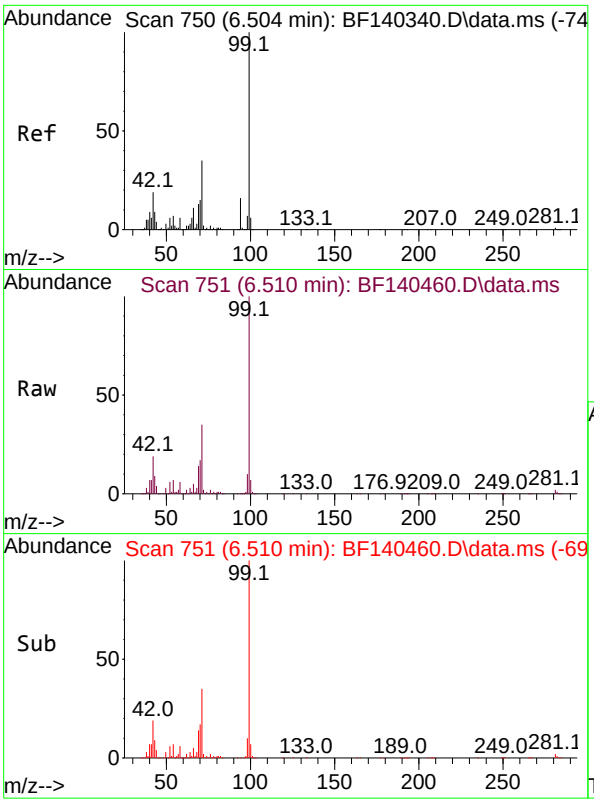


#5
2-Fluorophenol
Concen: 128.992 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.017 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Tgt Ion:112 Resp: 1004872

Ion	Ratio	Lower	Upper
112	100		
64	60.7	49.2	73.8
63	31.5	25.6	38.4



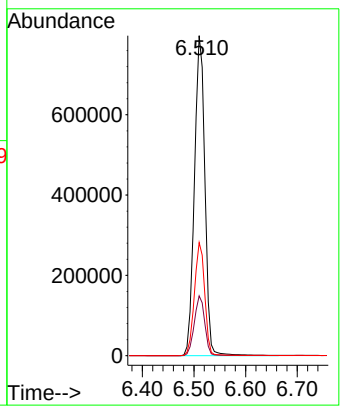


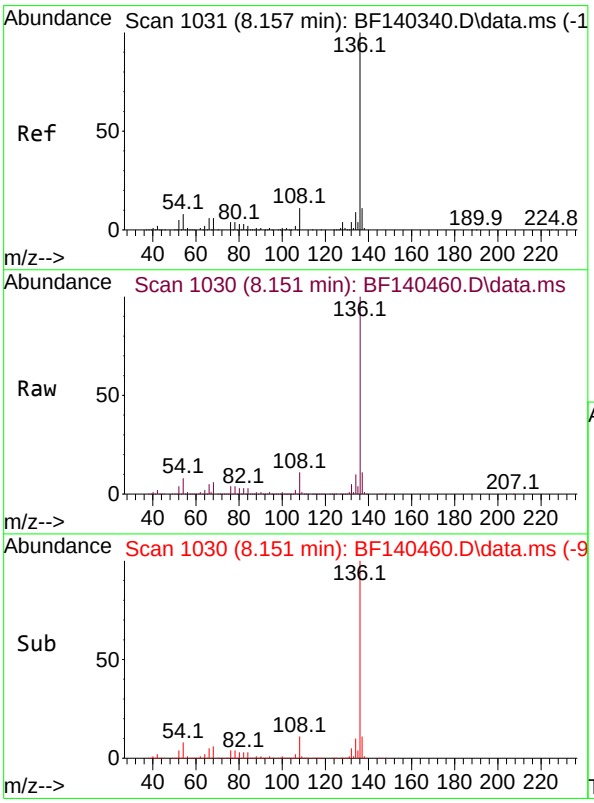
#7
Phenol-d6
Concen: 106.485 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Tgt Ion: 99 Resp: 1123881

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.1	22.7
71	35.4	27.9	41.9

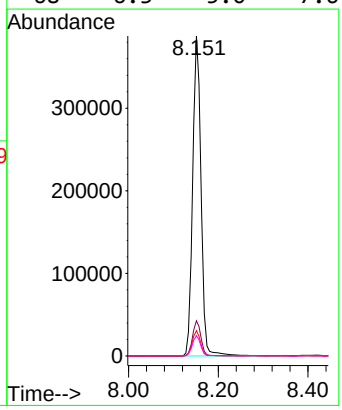


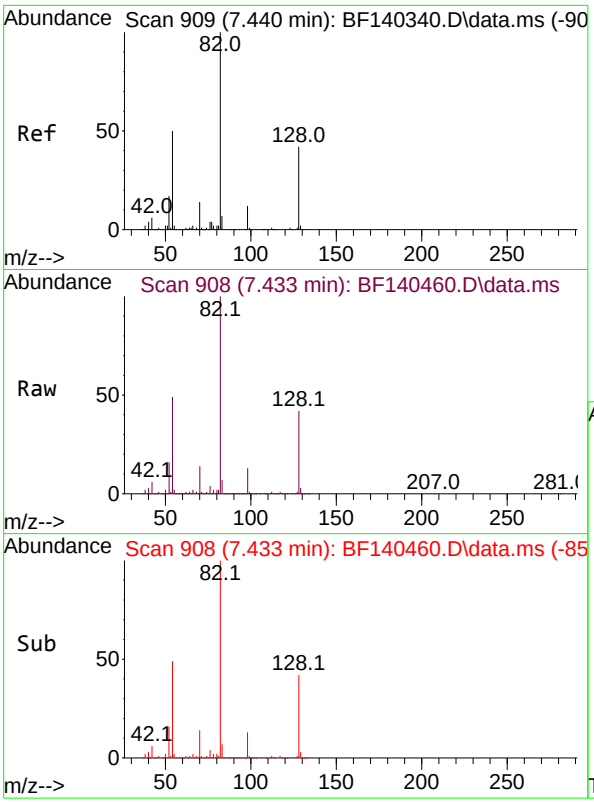


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Tgt Ion:136 Resp: 502386

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	7.9	6.5	9.7
68	6.3	5.0	7.6



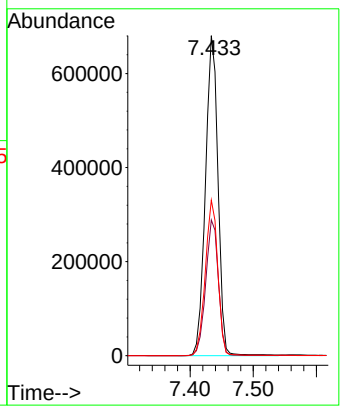


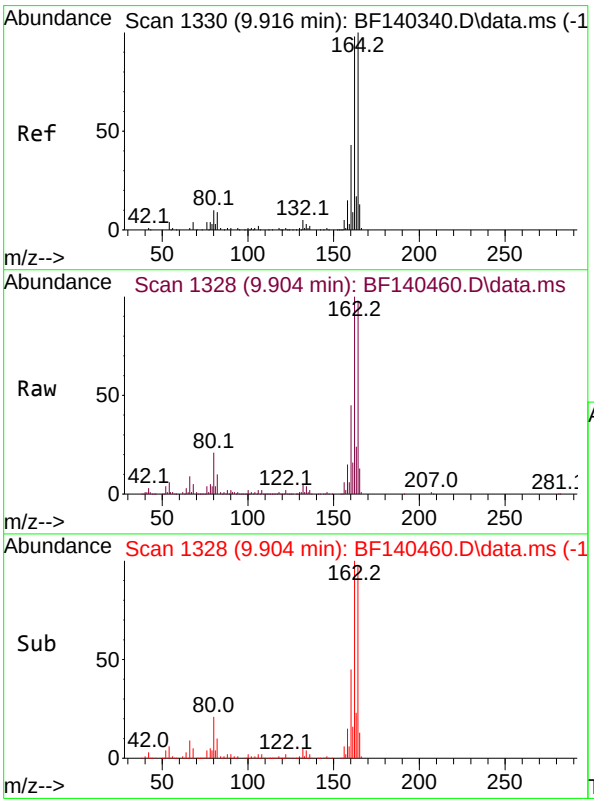
#23
Nitrobenzene-d5
Concen: 97.774 ng
RT: 7.433 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Tgt Ion: 82 Resp: 942762

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.3	49.9
54	48.6	39.8	59.8

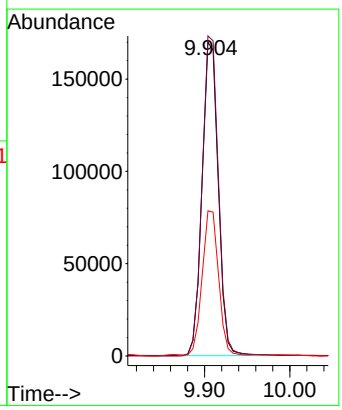


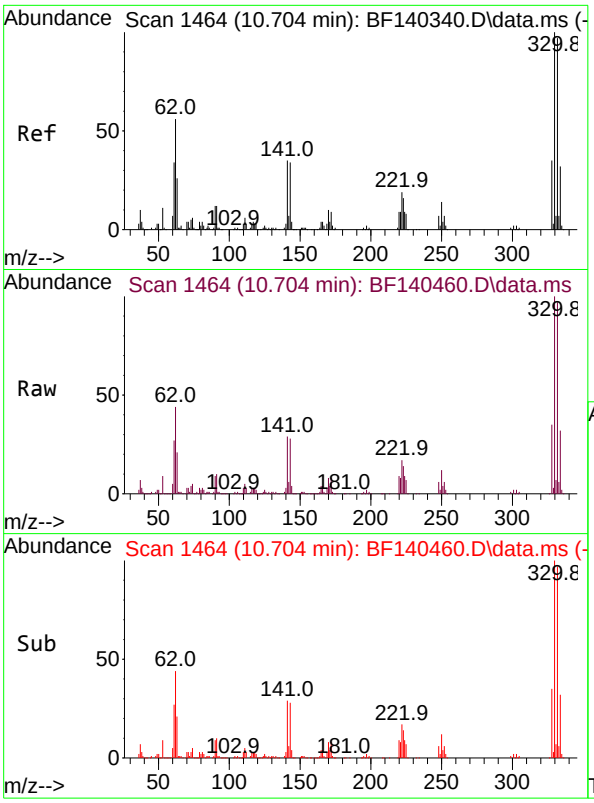


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Tgt Ion:164 Resp: 224448

Ion	Ratio	Lower	Upper
164	100		
162	102.0	79.8	119.8
160	46.3	35.4	53.0



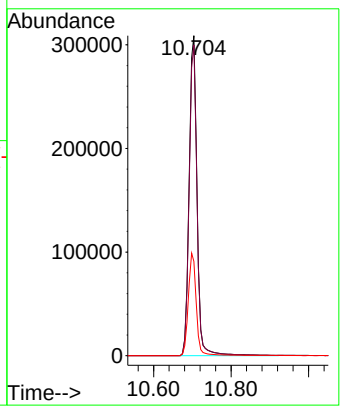


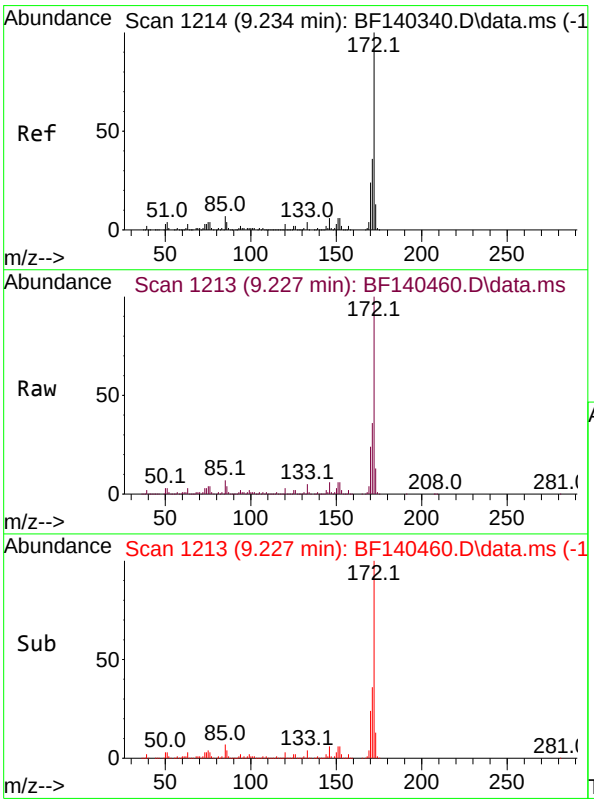
#42
2,4,6-Tribromophenol
Concen: 195.207 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Tgt Ion:330 Resp: 435695

Ion	Ratio	Lower	Upper
330	100		
332	96.4	75.9	113.9
141	32.3	26.9	40.3

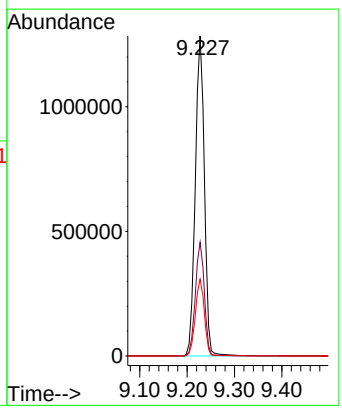


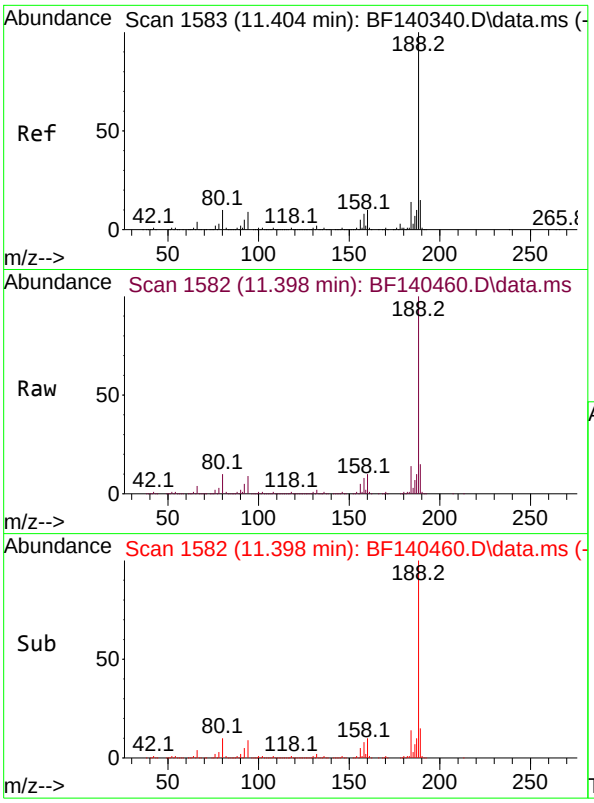


#45
2-Fluorobiphenyl
Concen: 123.113 ng
RT: 9.227 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Tgt Ion:172 Resp: 1718923

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.5	42.7
170	24.0	19.1	28.7



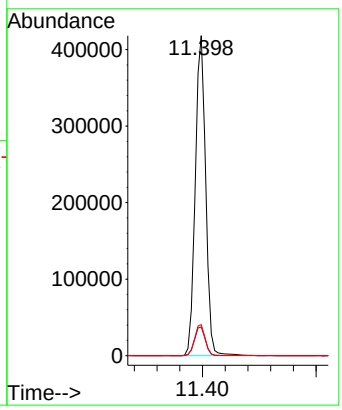


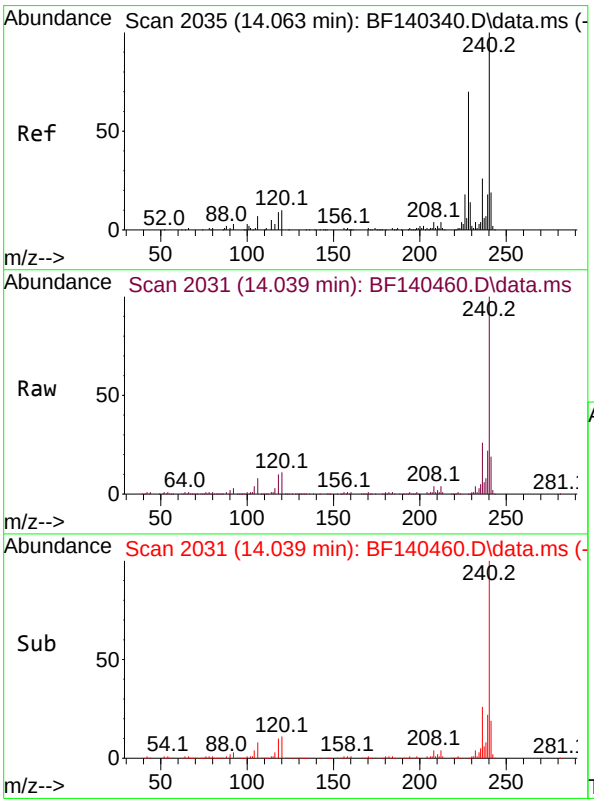
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Tgt Ion:188 Resp: 533842

Ion	Ratio	Lower	Upper
188	100		
94	9.0	7.6	11.4
80	9.7	8.0	12.0

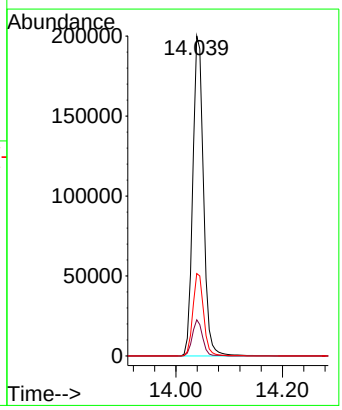


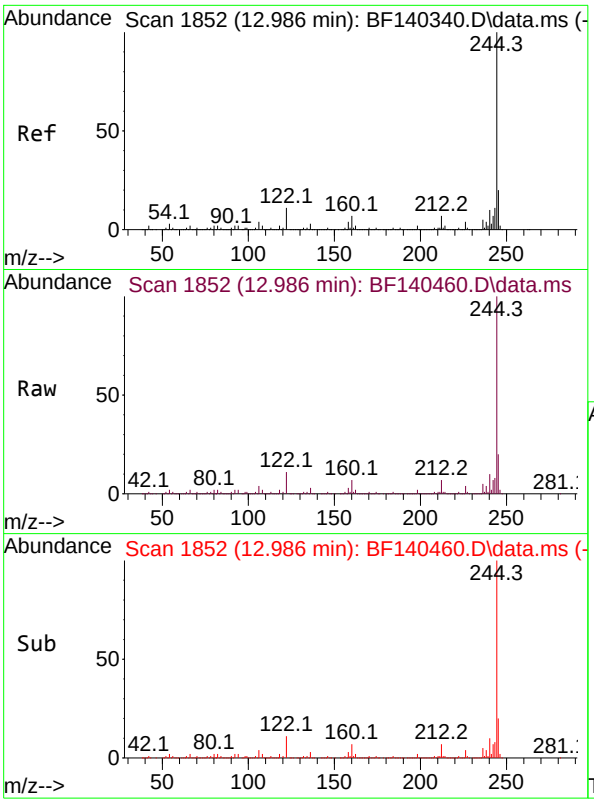


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Tgt Ion:240 Resp: 279485

Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.8	13.2
236	25.8	20.9	31.3



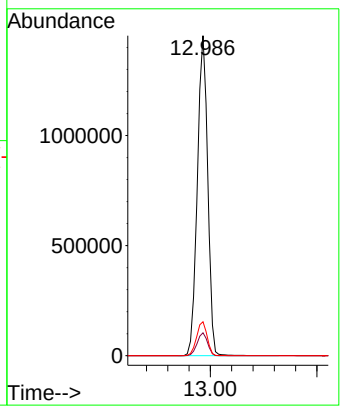


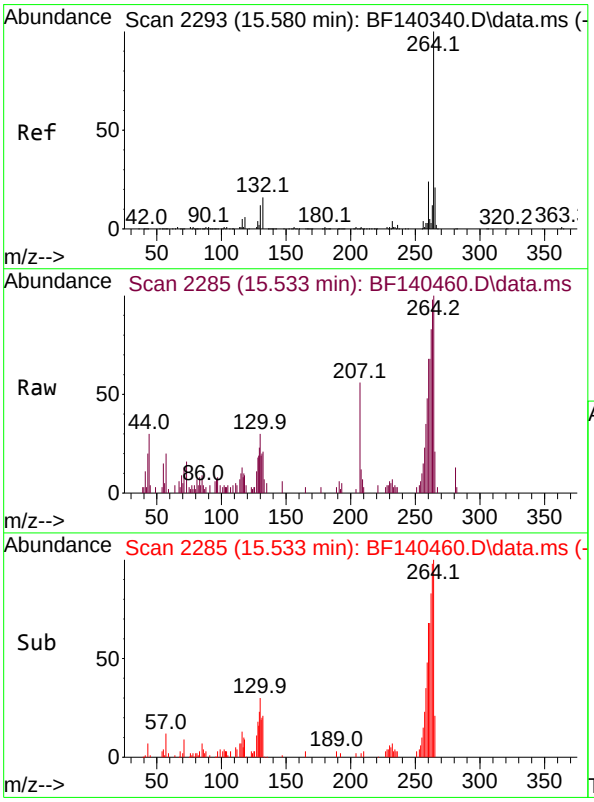
#79
Terphenyl-d14
Concen: 122.193 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Instrument :
BNA_F
ClientSampleId :
WC-10-A-202411

Tgt Ion:244 Resp: 1967463

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	10.6	8.8	13.2

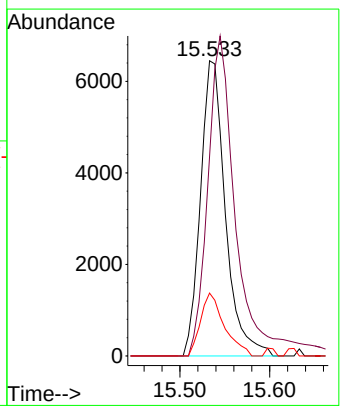




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.024 min
Lab File: BF140460.D
Acq: 18 Nov 2024 18:06

Tgt Ion:264 Resp: 12426

Ion	Ratio	Lower	Upper
264	100		
260	67.5	19.2	28.8#
265	21.3	17.1	25.7



Raw Data: **BF140464.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:	11/18/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/18/24
Client Sample ID:	PB165019TB	SDG No.:	P4871
Lab Sample ID:	PB165019TB	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
BF140464.D	1	11/18/24 08:35	11/19/24 11:00	PB165052

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	126		10 - 139	84%	SPK: 150
13127-88-3	Phenol-d6	121		10 - 134	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.6		49 - 133	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.6		52 - 132	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		44 - 137	83%	SPK: 150
1718-51-0	Terphenyl-d14	85.9		48 - 125	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	144000	6.869			
1146-65-2	Naphthalene-d8	545000	8.151			
15067-26-2	Acenaphthene-d10	303000	9.904			
1517-22-2	Phenanthrene-d10	577000	11.398			
1719-03-5	Chrysene-d12	370000	14.057			
1520-96-3	Perylene-d12	302000	15.574			

Raw Data: **BF140464.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:	11/18/24
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	11/18/24
Client Sample ID:	PB165019TB			SDG No.:	P4871
Lab Sample ID:	PB165019TB			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
BF140464.D	1	11/18/24 08:35	11/19/24 11:00	PB165052

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\BF111924\
Data File : BF140464.D
Acq On : 19 Nov 2024 11:00
Operator : RC/JU
Sample : PB165019TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Quant Time: Nov 19 11:22:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

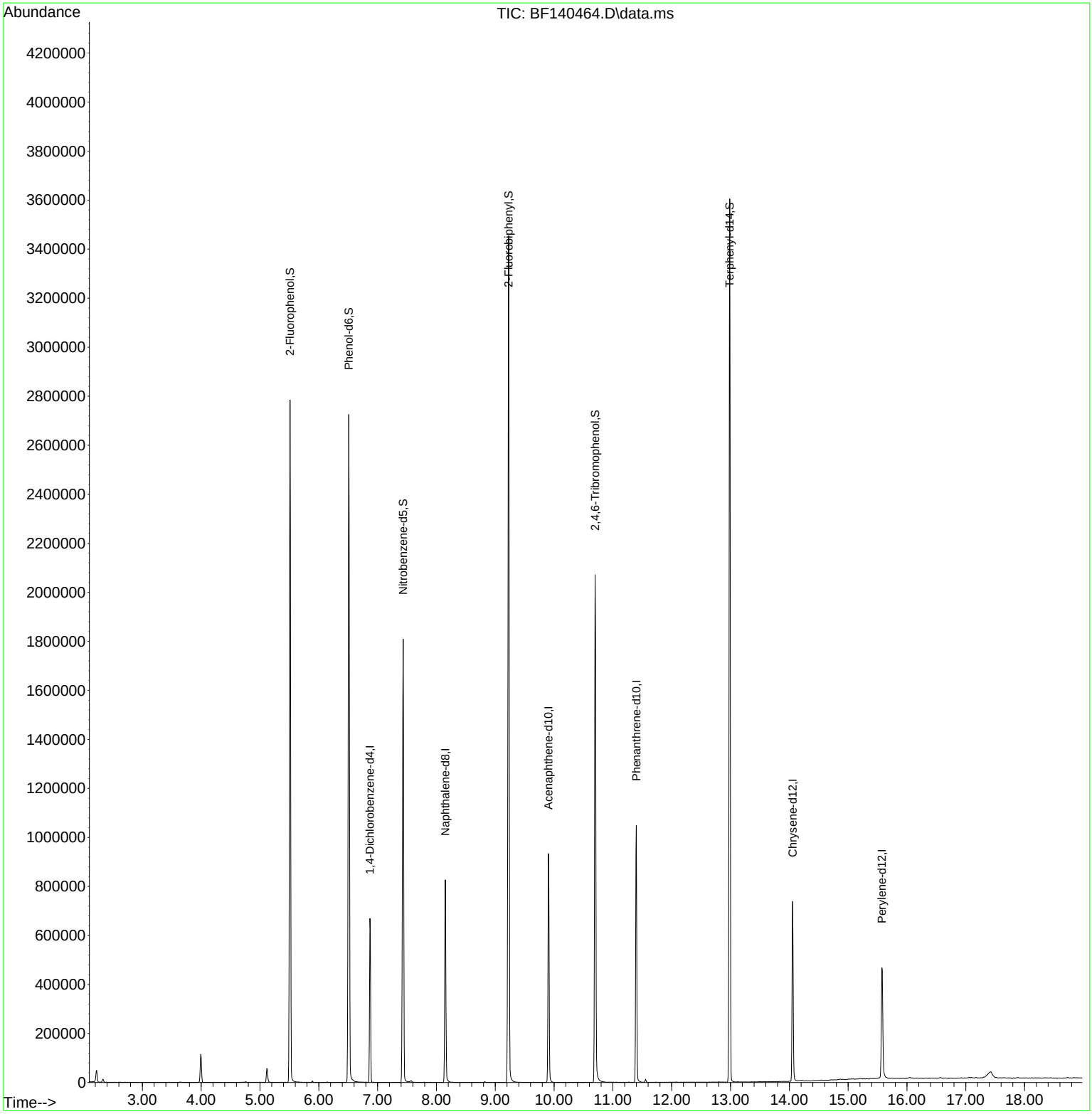
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	144350	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	545389	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	303191	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	576588	20.000	ng	0.00
76) Chrysene-d12	14.057	240	369743	20.000	ng	0.00
86) Perylene-d12	15.574	264	301857	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1062437	125.666	ng	0.02
7) Phenol-d6	6.510	99	1388624	121.230	ng	0.00
23) Nitrobenzene-d5	7.434	82	906002	86.553	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	374546	124.228	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1651526	87.565	ng	0.00
79) Terphenyl-d14	12.986	244	1829349	85.880	ng	0.00
Target Compounds						Qvalue

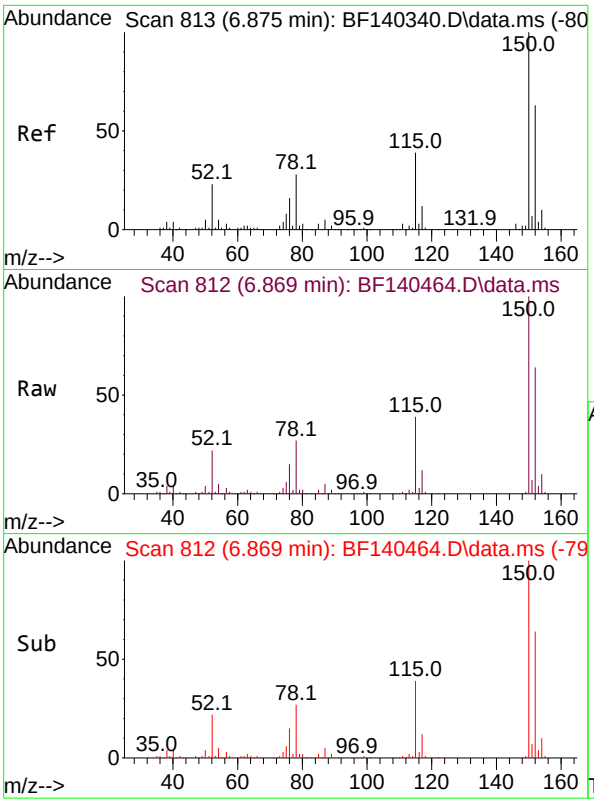
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140464.D
Acq On : 19 Nov 2024 11:00
Operator : RC/JU
Sample : PB165019TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Quant Time: Nov 19 11:22:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



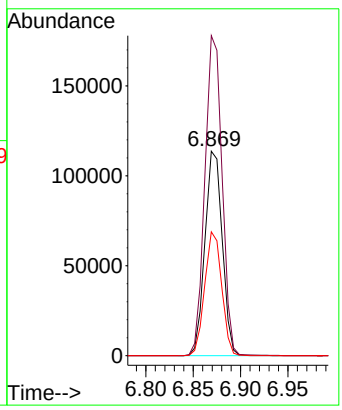


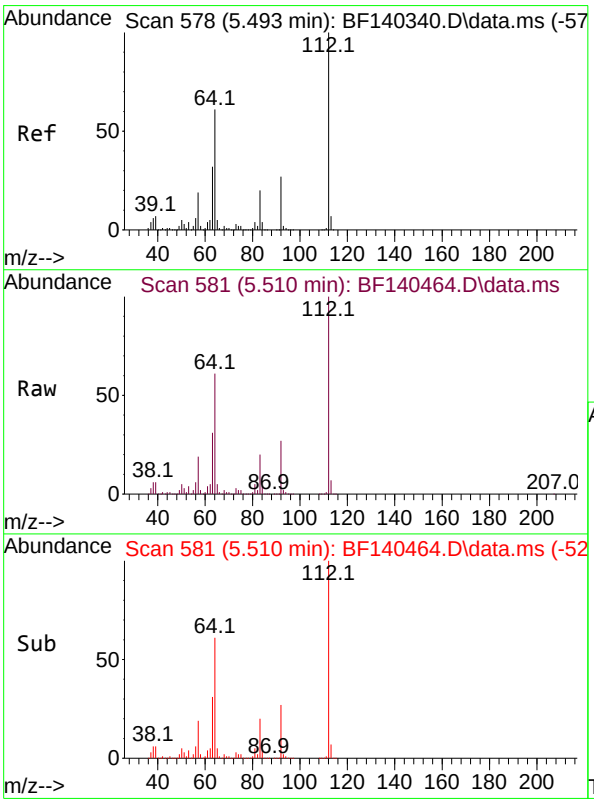
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Tgt Ion:152 Resp: 144350

Ion	Ratio	Lower	Upper
152	100		
150	156.5	127.4	191.0
115	60.6	47.4	71.2

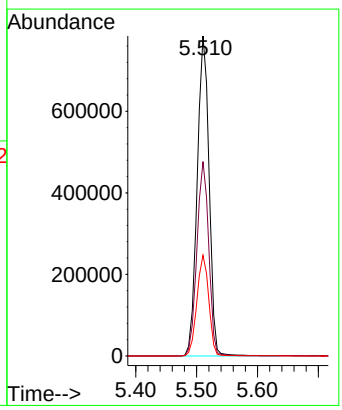


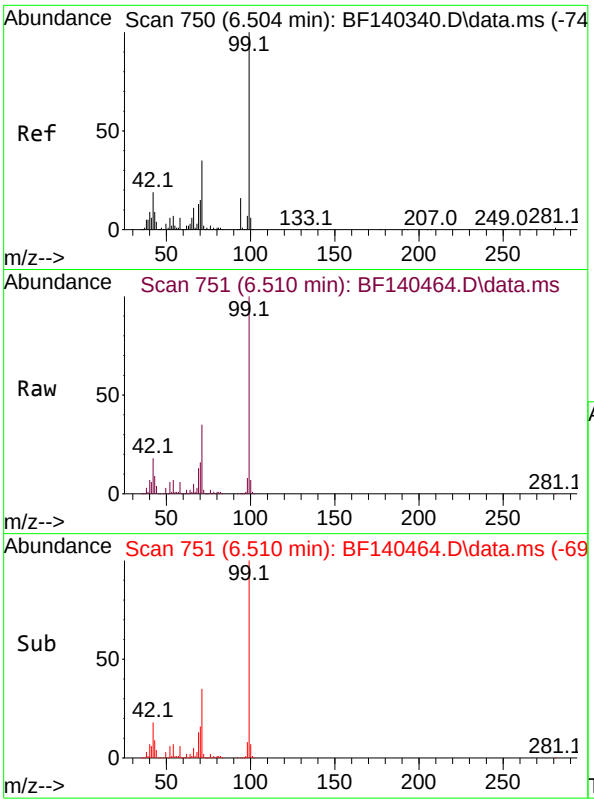


#5
2-Fluorophenol
Concen: 125.666 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.018 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Tgt Ion:112 Resp: 1062437

Ion	Ratio	Lower	Upper
112	100		
64	60.8	49.2	73.8
63	31.5	25.6	38.4



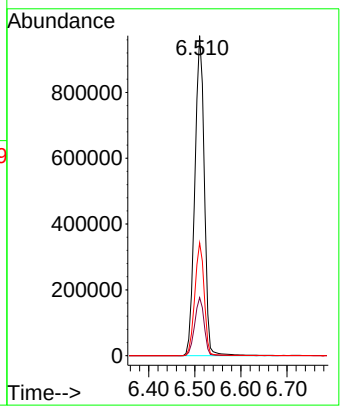


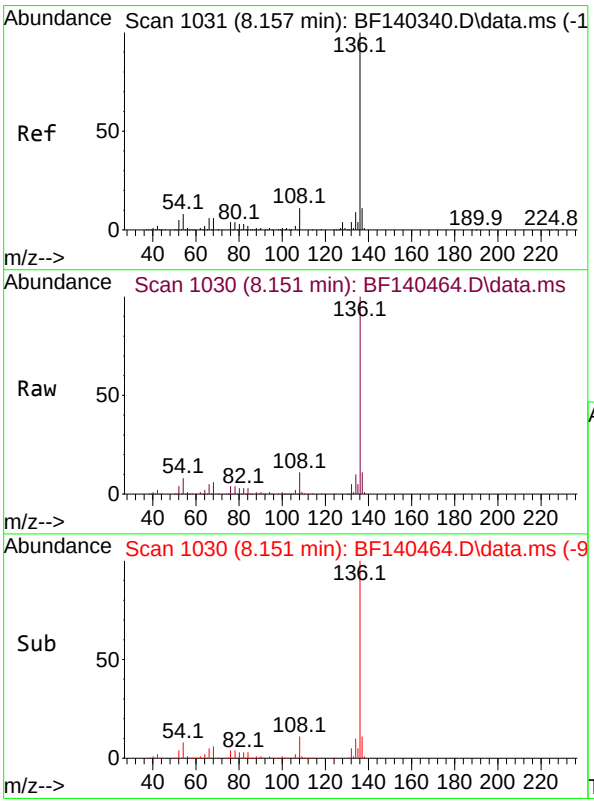
#7
Phenol-d6
Concen: 121.230 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Tgt Ion: 99 Resp: 1388624

Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.1	22.7
71	35.3	27.9	41.9

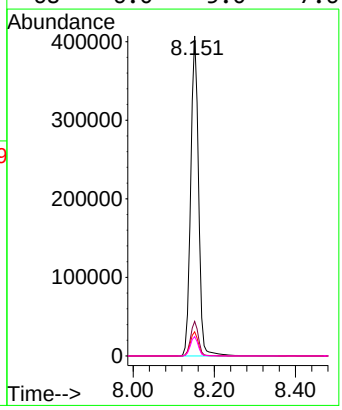


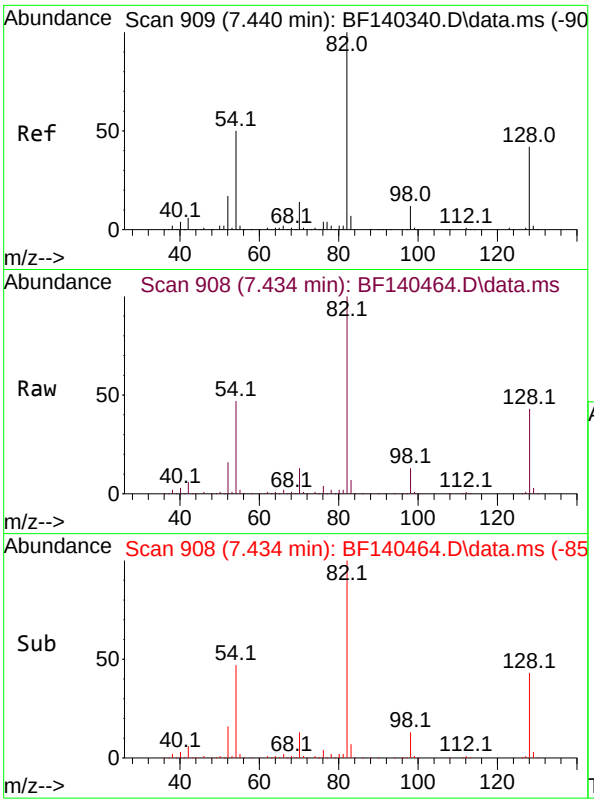


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Tgt Ion:136 Resp: 545389

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	7.6	6.5	9.7
68	6.0	5.0	7.6



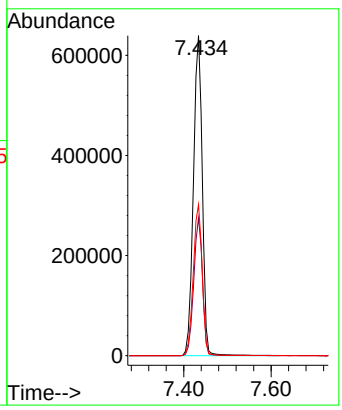


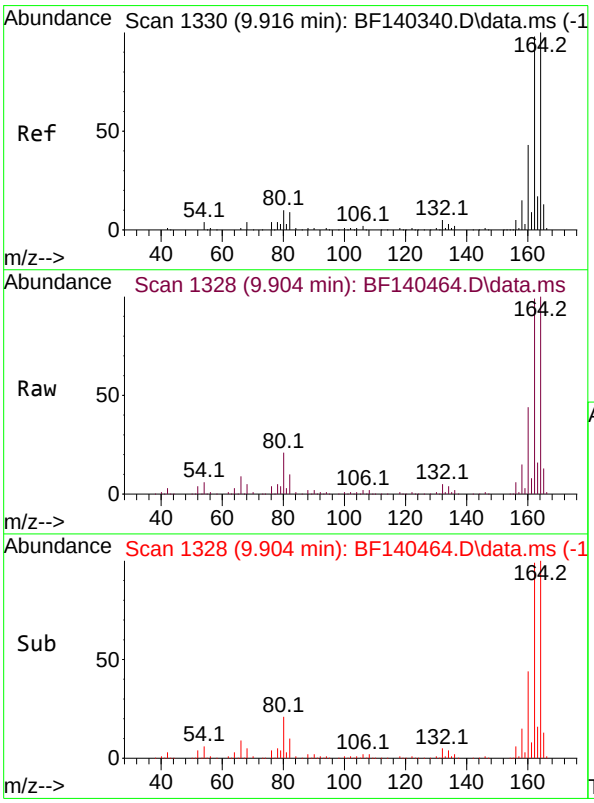
#23
Nitrobenzene-d5
Concen: 86.553 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Tgt Ion: 82 Resp: 906002

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.3	49.9
54	47.3	39.8	59.8

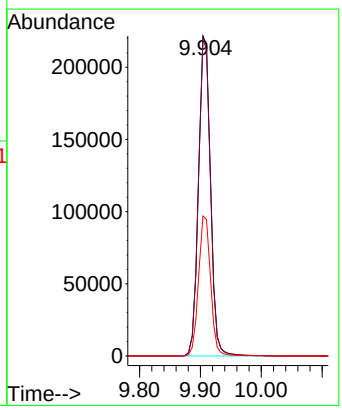


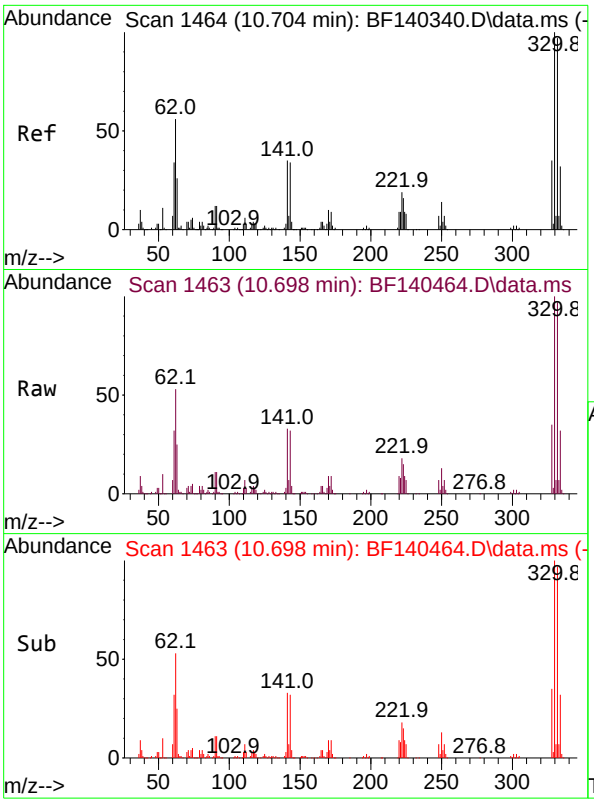


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Tgt Ion:164 Resp: 303191

Ion	Ratio	Lower	Upper
164	100		
162	98.9	79.8	119.8
160	43.7	35.4	53.0



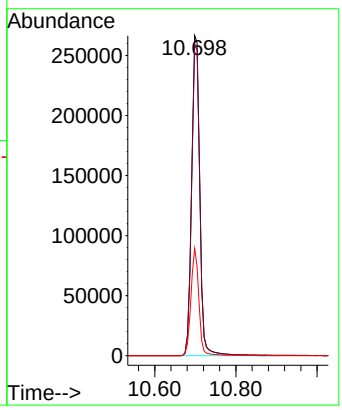


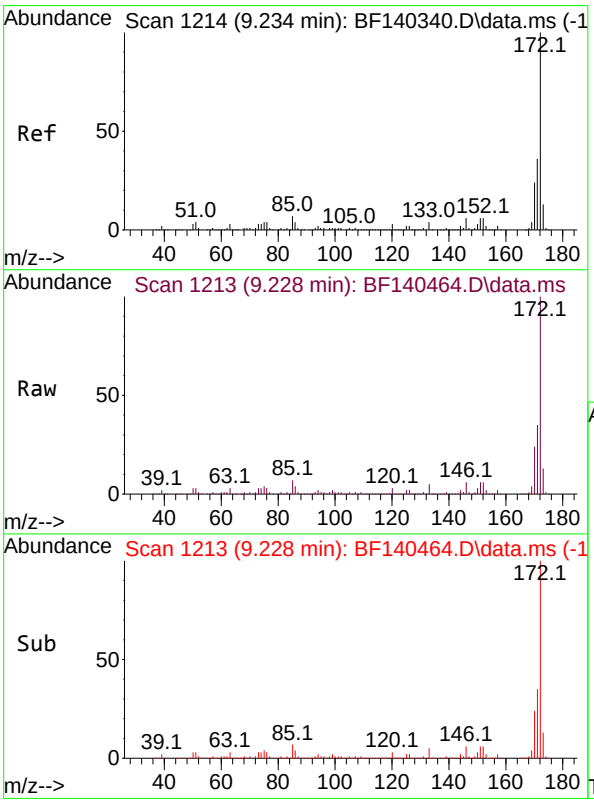
#42
2,4,6-Tribromophenol
Concen: 124.228 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Tgt Ion:330 Resp: 374546

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.9	113.9
141	32.3	26.9	40.3

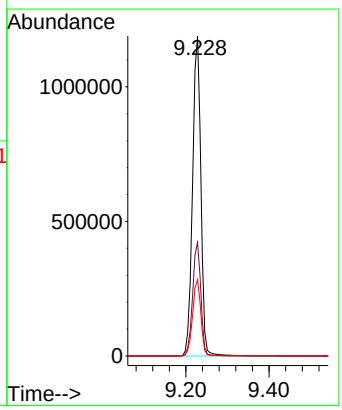


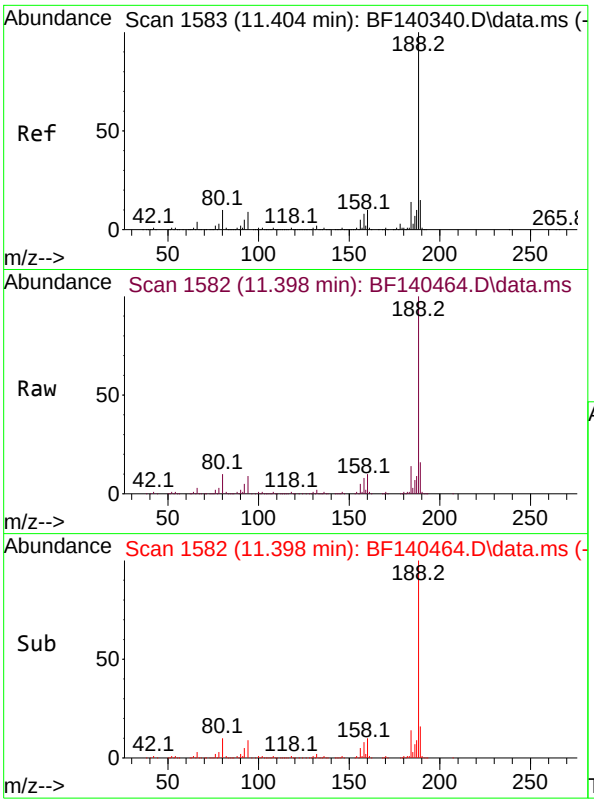


#45
2-Fluorobiphenyl
Concen: 87.565 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Tgt Ion:172 Resp: 1651526

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.5	42.7
170	23.8	19.1	28.7



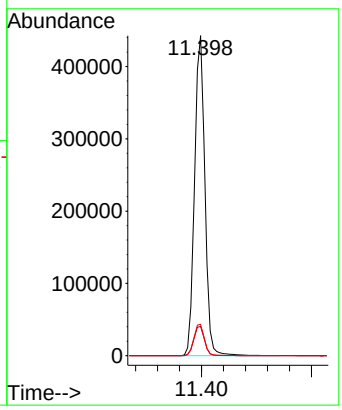


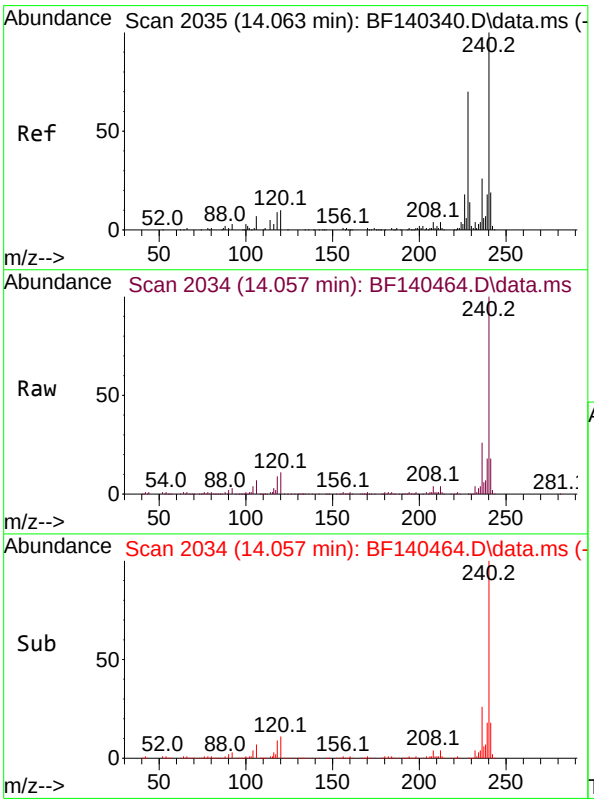
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Tgt Ion:188 Resp: 576588

Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.6	11.4
80	9.8	8.0	12.0

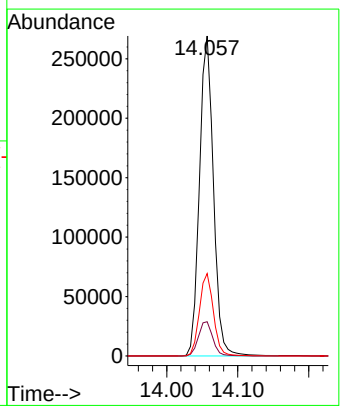


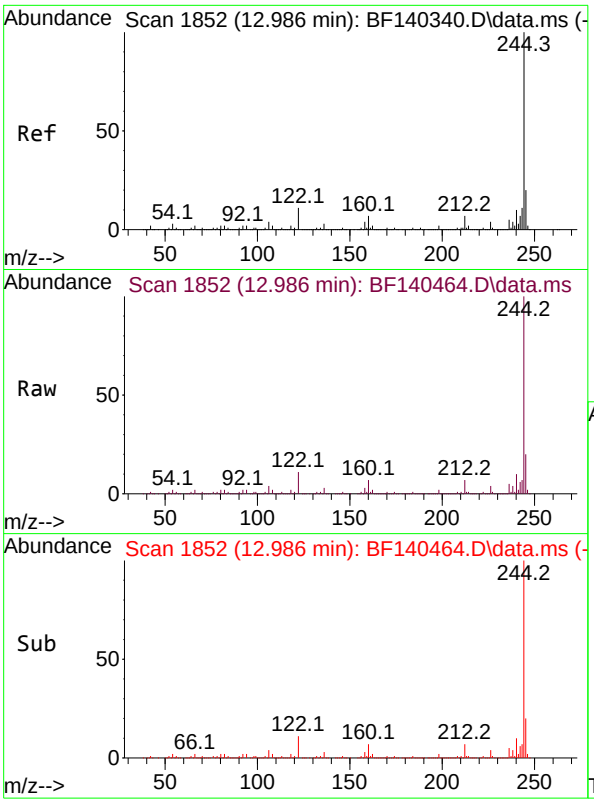


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Tgt Ion:240 Resp: 369743

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.8	13.2
236	25.8	20.9	31.3



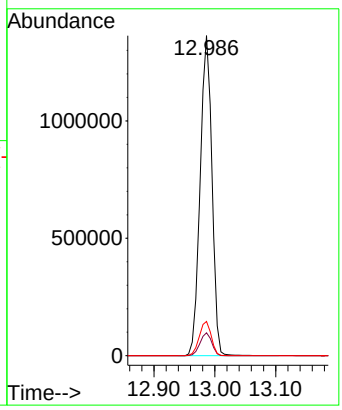


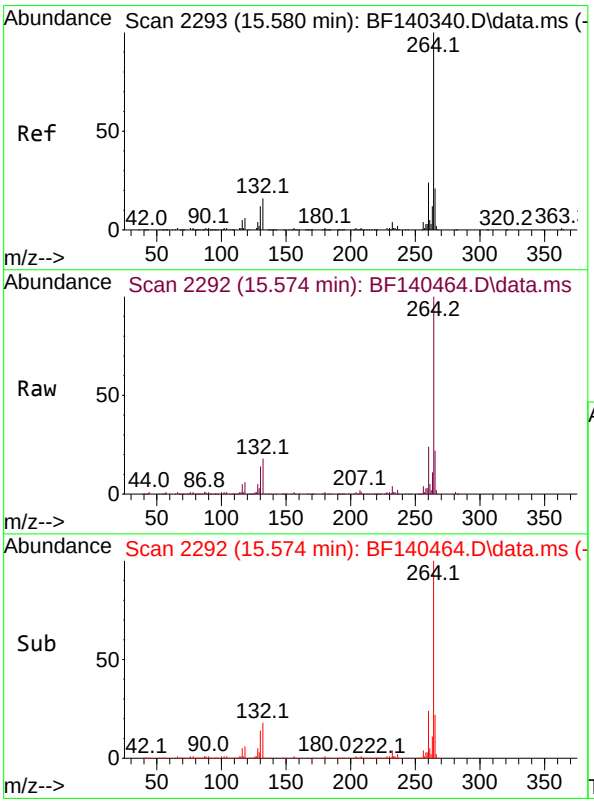
#79
Terphenyl-d14
Concen: 85.880 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Instrument :
BNA_F
ClientSampleId :
PB165019TB

Tgt Ion:244 Resp: 1829349

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	10.7	8.8	13.2

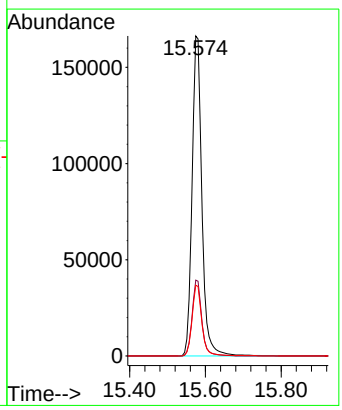




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.018 min
Lab File: BF140464.D
Acq: 19 Nov 2024 11:00

Tgt Ion:264 Resp: 301857

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.1	17.1	25.7



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.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024

Calibration Time(s): 09:01 12:48

LAB FILE ID: RRF2.5 = BF140332.D RRF005 = BF140333.D RRF010 = BF140334.D
RRF020 = BF140335.D RRF050 = BF140337.D RRF060 = BF140338.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Pyridine		1.430	1.343	1.323	1.189	1.237	1.283	7.6
2-Fluorophenol		1.329	1.257	1.223	1.090	1.118	1.171	8.8
Phenol-d6		1.773	1.691	1.643	1.483	1.507	1.587	8.1
1,4-Dichlorobenzene		1.590	1.534	1.486	1.306	1.326	1.408	9.5
2-Methylphenol		1.092	1.062	1.072	0.998	1.016	1.035	5.1
3+4-Methylphenols		1.436	1.427	1.359	1.200	1.198	1.295	10.2
Nitrobenzene-d5		0.411	0.401	0.399	0.368	0.379	0.384	5.3
Hexachloroethane		0.562	0.543	0.550	0.500	0.506	0.520	6.3
Nitrobenzene		0.423	0.421	0.406	0.390	0.394	0.400	4.6
Hexachlorobutadiene		0.220	0.214	0.210	0.188	0.190	0.199	7.7
2,4,6-Trichlorophenol		0.380	0.374	0.374	0.360	0.352	0.363	3.9
2-Fluorobiphenyl		1.524	1.396	1.351	1.125	1.110	1.244	14.5
2,4,5-Trichlorophenol		0.421	0.417	0.412	0.387	0.390	0.397	5.4
2,4-Dinitrotoluene		0.414	0.400	0.417	0.387	0.382	0.391	5.8
2,4,6-Tribromophenol		0.220	0.211	0.207	0.191	0.189	0.199	6.9
Hexachlorobenzene		0.251	0.242	0.232	0.209	0.215	0.225	7.5
Pentachlorophenol		0.097	0.108	0.124	0.131	0.130	0.121	10.9
Terphenyl-d14		1.226	1.185	1.108	1.139	1.190	1.152	4.3

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------								
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147206	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	569357	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	324094	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	631650	20.000	ng	0.00
76) Chrysene-d12	14.057	240	473843	20.000	ng	0.00
86) Perylene-d12	15.574	264	387360	20.000	ng	0.02
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...	7.275	70	18995	2.692	ng	97

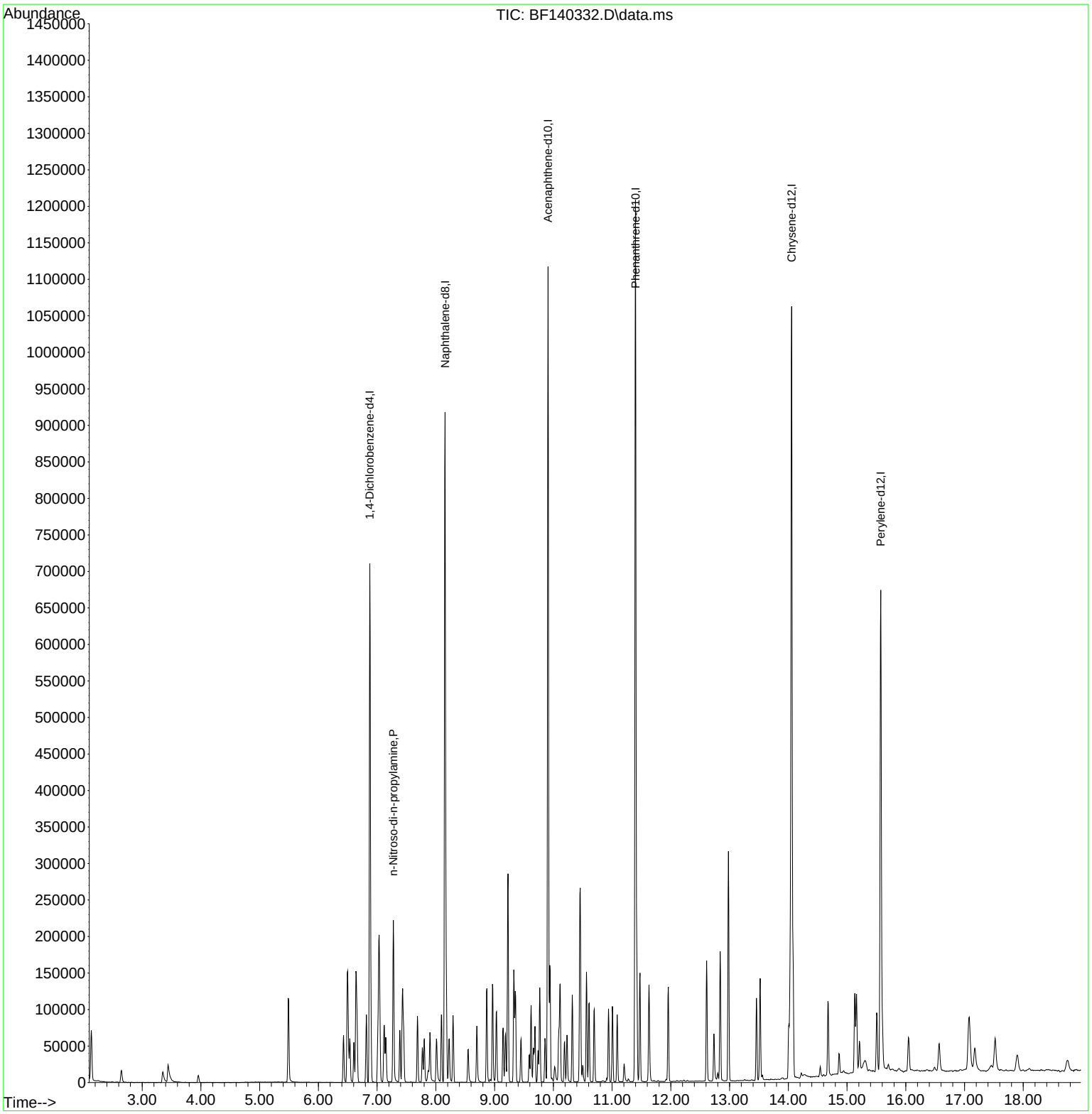
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	147440	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	561082	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	317345	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	615904	20.000	ng		0.00
76) Chrysene-d12	14.051	240	462864	20.000	ng		0.00
86) Perylene-d12	15.563	264	372118	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	98004	11.349	ng		0.00
7) Phenol-d6	6.493	99	130723	11.173	ng		-0.01
23) Nitrobenzene-d5	7.434	82	115292	10.706	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	34890	11.056	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	241751	12.246	ng		0.00
79) Terphenyl-d14	12.980	244	283824	10.644	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	21442	5.571	ng		95
3) Pyridine	3.422	79	52697	5.569	ng		98
4) n-Nitrosodimethylamine	3.346	42	24263	5.074	ng	#	97
6) Aniline	6.534	93	58498	5.748	ng		98
8) 2-Chlorophenol	6.657	128	51502	5.552	ng		99
9) Benzaldehyde	6.428	77	40600	5.790	ng		100
10) Phenol	6.504	94	66303	5.374	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	50099	5.359	ng		97
12) 1,3-Dichlorobenzene	6.816	146	58435	5.709	ng		99
13) 1,4-Dichlorobenzene	6.893	146	58594	5.646	ng		99
14) 1,2-Dichlorobenzene	7.046	146	55054	5.714	ng		100
15) Benzyl Alcohol	7.010	79	43212	5.126	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.146	45	70257	5.441	ng		100
17) 2-Methylphenol	7.116	107	40243	5.274	ng		97
18) Hexachloroethane	7.387	117	20701	5.396	ng		97
19) n-Nitroso-di-n-propyla...	7.275	70	37919	5.366	ng		97
20) 3+4-Methylphenols	7.275	107	52942	5.548	ng	#	82
22) Acetophenone	7.281	105	74642	5.720	ng		95
24) Nitrobenzene	7.451	77	59394	5.297	ng		99
25) Isophorone	7.687	82	103224	5.409	ng		99
26) 2-Nitrophenol	7.769	139	24576	4.939	ng		99
27) 2,4-Dimethylphenol	7.804	122	33358	5.237	ng		97
28) bis(2-Chloroethoxy)met...	7.898	93	64672	5.526	ng		100
29) 2,4-Dichlorophenol	8.010	162	43077	5.472	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	48599	5.545	ng		99
31) Naphthalene	8.175	128	162710	5.717	ng		99
32) Benzoic acid	7.869	122	22671m	4.051	ng		
33) 4-Chloroaniline	8.222	127	54728	5.529	ng		99
34) Hexachlorobutadiene	8.293	225	30821	5.519	ng		99
35) Caprolactam	8.551	113	13807	5.217	ng		98
36) 4-Chloro-3-methylphenol	8.698	107	46450	5.324	ng		97
37) 2-Methylnaphthalene	8.869	142	105353	5.773	ng		97
38) 1-Methylnaphthalene	8.963	142	102975	5.762	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	51260	5.841	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	30173	5.239	ng		98
44) 2,4,5-Trichlorophenol	9.181	196	33434	5.310	ng		96

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel
11/14/2024
Supervised By :mohammad ahmed
11/14/2024

Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.328	154	134098	5.808	ng	98
47) 2-Chloronaphthalene	9.351	162	101447	5.768	ng	100
48) 2-Nitroaniline	9.451	65	29995	5.143	ng	100
49) Acenaphthylene	9.769	152	153886	5.783	ng	99
50) Dimethylphthalate	9.622	163	116132	5.614	ng	99
51) 2,6-Dinitrotoluene	9.687	165	25188	5.341	ng	98
52) Acenaphthene	9.939	154	99899	5.559	ng	98
53) 3-Nitroaniline	9.857	138	26407	5.332	ng	94
55) Dibenzofuran	10.116	168	151058	5.937	ng	97
56) 4-Nitrophenol	10.016	139	15801	4.374	ng	98
57) 2,4-Dinitrotoluene	10.092	165	32877	5.297	ng	98
58) Fluorene	10.457	166	121014	6.021	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.234	232	25576	5.149	ng	99
60) Diethylphthalate	10.322	149	120988	5.720	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	58593	5.905	ng	97
62) 4-Nitroaniline	10.463	138	26578	5.249	ng	96
63) Azobenzene	10.610	77	118816	5.685	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	12385	3.738	ng	96
66) n-Nitrosodiphenylamine	10.563	169	100287	5.636	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	34999	5.685	ng	96
68) Hexachlorobenzene	11.004	284	38627	5.576	ng	98
69) Atrazine	11.086	200	29460	5.472	ng	97
70) Pentachlorophenol	11.204	266	14987	4.016	ng	97
71) Phenanthrene	11.422	178	168742	5.832	ng	99
72) Anthracene	11.475	178	164923	5.816	ng	98
73) Carbazole	11.628	167	162080	5.789	ng	99
74) Di-n-butylphthalate	11.957	149	186931	5.563	ng	100
75) Fluoranthene	12.610	202	193346	5.956	ng	99
78) Pyrene	12.839	202	202260	5.109	ng	99
80) Butylbenzylphthalate	13.457	149	74075	4.870	ng	96
81) Benzo(a)anthracene	14.039	228	167855	5.518	ng	98
82) 3,3'-Dichlorobenzidine	14.004	252	50636	5.237	ng	98
83) Chrysene	14.074	228	161255	5.810	ng	98
84) Bis(2-ethylhexyl)phtha...	14.027	149	102534	5.051	ng	99
85) Di-n-octyl phthalate	14.663	149	142493	4.984	ng	100
87) Indeno(1,2,3-cd)pyrene	17.057	276	103830	4.517	ng	98
88) Benzo(b)fluoranthene	15.121	252	130731	5.371	ng	99
89) Benzo(k)fluoranthene	15.145	252	119602	6.014	ng	99
90) Benzo(a)pyrene	15.492	252	102364	5.415	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	87528	4.607	ng	99
92) Benzo(g,h,i)perylene	17.504	276	87547	4.507	ng	99

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

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

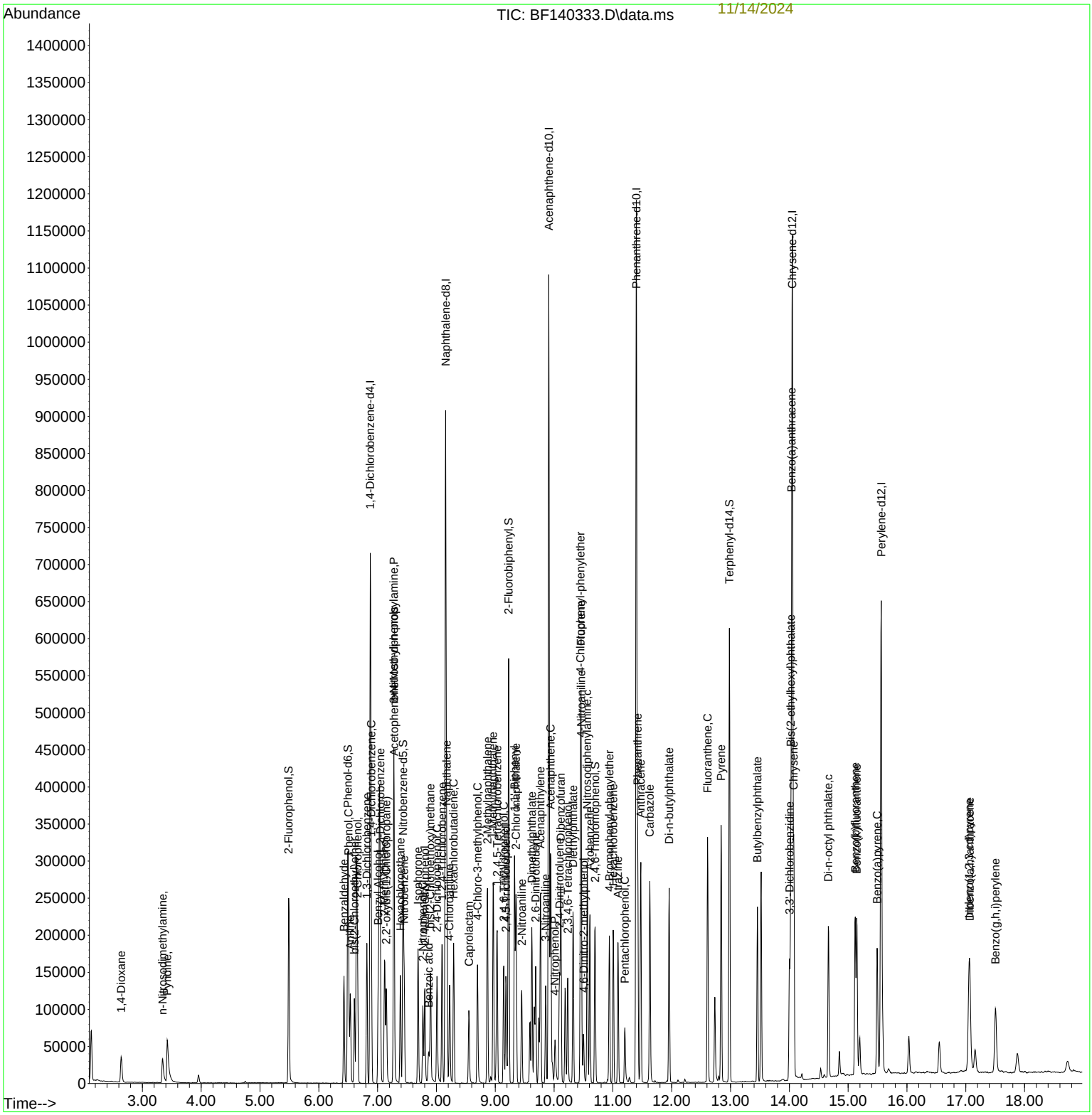
Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/14/2024

Supervised By :mohammad ahmed
11/14/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140334.D
Acq On : 13 Nov 2024 09:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 13 14:23:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	151757	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	576727	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	332343	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	625922	20.000	ng		0.00
76) Chrysene-d12	14.051	240	456049	20.000	ng		0.00
86) Perylene-d12	15.562	264	358045	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	190834	21.470	ng		0.00
7) Phenol-d6	6.492	99	256677	21.315	ng		-0.01
23) Nitrobenzene-d5	7.434	82	231031	20.872	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	70040	21.193	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	463950	22.441	ng		0.00
79) Terphenyl-d14	12.980	244	540367	20.567	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	41430	10.458	ng		98
3) Pyridine	3.416	79	101886	10.462	ng		100
4) n-Nitrosodimethylamine	3.346	42	47921	9.736	ng		96
6) Aniline	6.534	93	115851	11.059	ng		99
8) 2-Chlorophenol	6.657	128	102376	10.723	ng		100
9) Benzaldehyde	6.428	77	82498	11.431	ng		99
10) Phenol	6.510	94	136055	10.713	ng		96
11) bis(2-Chloroethyl)ether	6.604	93	98194	10.205	ng		97
12) 1,3-Dichlorobenzene	6.816	146	111939	10.626	ng		99
13) 1,4-Dichlorobenzene	6.892	146	116395	10.897	ng		99
14) 1,2-Dichlorobenzene	7.045	146	108453	10.937	ng		98
15) Benzyl Alcohol	7.010	79	90500	10.431	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	138565	10.425	ng		99
17) 2-Methylphenol	7.122	107	80567	10.258	ng		99
18) Hexachloroethane	7.387	117	41189	10.431	ng		97
19) n-Nitroso-di-n-propyla...	7.275	70	76077	10.460	ng		96
20) 3+4-Methylphenols	7.275	107	108265	11.022	ng	#	89
22) Acetophenone	7.281	105	146536	10.925	ng		97
24) Nitrobenzene	7.451	77	121397	10.534	ng		99
25) Isophorone	7.686	82	202309	10.313	ng		98
26) 2-Nitrophenol	7.769	139	51547	10.079	ng		97
27) 2,4-Dimethylphenol	7.804	122	68066	10.396	ng		100
28) bis(2-Chloroethoxy)met...	7.898	93	127440	10.594	ng		99
29) 2,4-Dichlorophenol	8.010	162	85290	10.540	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	95485	10.599	ng		99
31) Naphthalene	8.181	128	318527	10.887	ng		99
32) Benzoic acid	7.875	122	51387m	8.934	ng		
33) 4-Chloroaniline	8.222	127	111264	10.936	ng		99
34) Hexachlorobutadiene	8.292	225	61596	10.731	ng		99
35) Caprolactam	8.563	113	26940	9.902	ng		97
36) 4-Chloro-3-methylphenol	8.698	107	94282	10.514	ng		99
37) 2-Methylnaphthalene	8.869	142	203533	10.850	ng		99
38) 1-Methylnaphthalene	8.969	142	200722	10.926	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	97174	10.573	ng		98
41) Hexachlorocyclopentadiene	9.022	237	18405	7.800	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	62134	10.302	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140334.D
Acq On : 13 Nov 2024 09:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:23:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	69370	10.520	ng	98
46) 1,1'-Biphenyl	9.328	154	261030	10.796	ng	99
47) 2-Chloronaphthalene	9.357	162	196370	10.662	ng	99
48) 2-Nitroaniline	9.451	65	60634	9.927	ng	99
49) Acenaphthylene	9.769	152	299521	10.749	ng	100
50) Dimethylphthalate	9.628	163	225705	10.419	ng	99
51) 2,6-Dinitrotoluene	9.692	165	50400	10.206	ng	97
52) Acenaphthene	9.945	154	200055	10.629	ng	99
53) 3-Nitroaniline	9.857	138	54319	10.473	ng	99
54) 2,4-Dinitrophenol	9.969	184	18126	7.117	ng	98
55) Dibenzofuran	10.116	168	288411	10.825	ng	98
56) 4-Nitrophenol	10.016	139	36056	9.531	ng	98
57) 2,4-Dinitrotoluene	10.092	165	66496	10.231	ng	98
58) Fluorene	10.457	166	233209	11.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	54566m	10.489	ng	
60) Diethylphthalate	10.328	149	235508	10.632	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	114328	11.002	ng	98
62) 4-Nitroaniline	10.469	138	54026	10.188	ng	98
63) Azobenzene	10.610	77	231165	10.562	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	30629	9.095	ng	97
66) n-Nitrosodiphenylamine	10.563	169	197047	10.896	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	65844	10.524	ng	98
68) Hexachlorobenzene	11.010	284	75713	10.755	ng	95
69) Atrazine	11.092	200	57244	10.462	ng	99
70) Pentachlorophenol	11.204	266	33884	8.935	ng	98
71) Phenanthrene	11.422	178	329580	11.209	ng	99
72) Anthracene	11.475	178	318560	11.055	ng	98
73) Carbazole	11.627	167	315859	11.101	ng	99
74) Di-n-butylphthalate	11.957	149	368412	10.788	ng	99
75) Fluoranthene	12.610	202	375846	11.394	ng	99
77) Benzidine	12.733	184	144597	8.261	ng	99
78) Pyrene	12.839	202	388982	9.972	ng	98
80) Butylbenzylphthalate	13.457	149	145394	9.702	ng	98
81) Benzo(a)anthracene	14.039	228	323440	10.791	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	98211	10.309	ng	99
83) Chrysene	14.080	228	282868	10.343	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	202970	10.147	ng	99
85) Di-n-octyl phthalate	14.668	149	277399	9.847	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	205803	9.305	ng	99
88) Benzo(b)fluoranthene	15.127	252	241957	10.331	ng	99
89) Benzo(k)fluoranthene	15.151	252	222087	11.607	ng	99
90) Benzo(a)pyrene	15.498	252	188533	10.366	ng	98
91) Dibenzo(a,h)anthracene	17.080	278	170496	9.326	ng	100
92) Benzo(g,h,i)perylene	17.515	276	172345	9.221	ng	100

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

ICAL Form

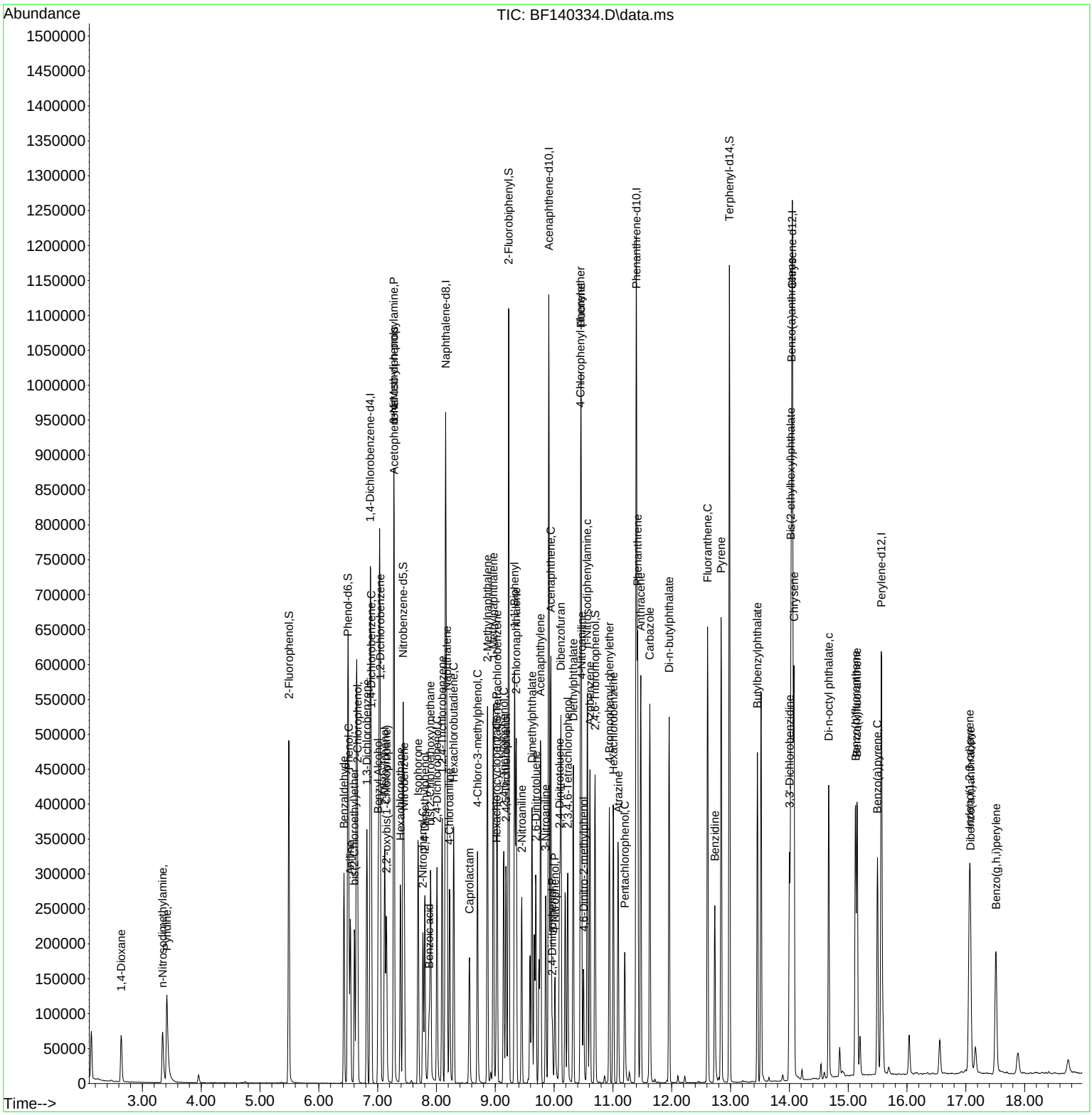
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140334.D
Acq On : 13 Nov 2024 09:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 13 14:23:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140335.D
Acq On : 13 Nov 2024 10:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Nov 13 14:24:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149945	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	574759	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	321015	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	615627	20.000	ng	0.00
76) Chrysene-d12	14.068	240	437725	20.000	ng	0.02
86) Perylene-d12	15.592	264	335998	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	366621	41.746	ng	0.00
7) Phenol-d6	6.498	99	492662	41.406	ng	0.00
23) Nitrobenzene-d5	7.434	82	458389	41.554	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	132693	41.567	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	867449	43.439	ng	0.00
79) Terphenyl-d14	12.986	244	969963	38.464	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	79493	20.309	ng	99
3) Pyridine	3.399	79	198352	20.613	ng	98
4) n-Nitrosodimethylamine	3.340	42	97556	20.059	ng	100
6) Aniline	6.540	93	224200	21.661	ng	96
8) 2-Chlorophenol	6.657	128	199701	21.169	ng	100
9) Benzaldehyde	6.428	77	152483	21.383	ng	99
10) Phenol	6.510	94	261330	20.827	ng	98
11) bis(2-Chloroethyl)ether	6.610	93	195860	20.601	ng	100
12) 1,3-Dichlorobenzene	6.816	146	218012	20.945	ng	99
13) 1,4-Dichlorobenzene	6.892	146	222816	21.112	ng	100
14) 1,2-Dichlorobenzene	7.045	146	209619	21.394	ng	99
15) Benzyl Alcohol	7.010	79	179832	20.978	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	272081	20.718	ng	99
17) 2-Methylphenol	7.122	107	160794	20.720	ng	99
18) Hexachloroethane	7.387	117	82445	21.130	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	147880	20.578	ng	99
20) 3+4-Methylphenols	7.275	107	203732	20.992	ng	97
22) Acetophenone	7.281	105	276331	20.672	ng	98
24) Nitrobenzene	7.457	77	233182	20.302	ng	99
25) Isophorone	7.692	82	397520	20.333	ng	100
26) 2-Nitrophenol	7.769	139	104117	20.428	ng	97
27) 2,4-Dimethylphenol	7.804	122	133218	20.416	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	246864	20.593	ng	100
29) 2,4-Dichlorophenol	8.010	162	165159	20.480	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	187022	20.831	ng	98
31) Naphthalene	8.181	128	611395	20.969	ng	100
32) Benzoic acid	7.898	122	103495	18.055	ng	98
33) 4-Chloroaniline	8.222	127	212489	20.956	ng	99
34) Hexachlorobutadiene	8.292	225	120624	21.087	ng	100
35) Caprolactam	8.575	113	54033	19.929	ng	100
36) 4-Chloro-3-methylphenol	8.698	107	183923	20.581	ng	99
37) 2-Methylnaphthalene	8.869	142	392634	21.001	ng	100
38) 1-Methylnaphthalene	8.969	142	386754	21.125	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	187279	21.097	ng	99
41) Hexachlorocyclopentadiene	9.022	237	45811	20.099	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	120063	20.609	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140335.D
Acq On : 13 Nov 2024 10:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Nov 13 14:24:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	132413	20.789	ng	98
46) 1,1'-Biphenyl	9.333	154	502252	21.506	ng	99
47) 2-Chloronaphthalene	9.357	162	368985	20.741	ng	99
48) 2-Nitroaniline	9.451	65	123220	20.885	ng	98
49) Acenaphthylene	9.775	152	573335	21.301	ng	99
50) Dimethylphthalate	9.628	163	440050	21.031	ng	100
51) 2,6-Dinitrotoluene	9.692	165	100599	21.089	ng	99
52) Acenaphthene	9.945	154	382783	21.056	ng	100
53) 3-Nitroaniline	9.863	138	107540	21.467	ng	99
54) 2,4-Dinitrophenol	9.969	184	47413	19.274	ng	96
55) Dibenzofuran	10.116	168	550502	21.391	ng	99
56) 4-Nitrophenol	10.016	139	76711	20.993	ng	99
57) 2,4-Dinitrotoluene	10.098	165	133852	21.321	ng	96
58) Fluorene	10.463	166	438095	21.548	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.233	232	104638	20.824	ng	98
60) Diethylphthalate	10.328	149	448855	20.979	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	214868	21.407	ng	100
62) 4-Nitroaniline	10.475	138	105392	20.576	ng	99
63) Azobenzene	10.610	77	443044	20.957	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	69851	21.089	ng	99
66) n-Nitrosodiphenylamine	10.569	169	369633	20.780	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	128501	20.881	ng	97
68) Hexachlorobenzene	11.010	284	143099	20.667	ng	98
69) Atrazine	11.092	200	83124	15.446	ng	98
70) Pentachlorophenol	11.204	266	76218	20.435	ng	99
71) Phenanthrene	11.422	178	606738	20.980	ng	100
72) Anthracene	11.475	178	594950	20.991	ng	99
73) Carbazole	11.627	167	592904	21.186	ng	100
74) Di-n-butylphthalate	11.957	149	707973	21.077	ng	100
75) Fluoranthene	12.616	202	702671	21.657	ng	99
77) Benzidine	12.733	184	299422	17.823	ng	100
78) Pyrene	12.845	202	719319	19.212	ng	99
80) Butylbenzylphthalate	13.463	149	286162	19.895	ng	98
81) Benzo(a)anthracene	14.051	228	591480	20.560	ng	99
82) 3,3'-Dichlorobenzidine	14.016	252	189466	20.720	ng	99
83) Chrysene	14.092	228	540430	20.589	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	392830	20.462	ng	99
85) Di-n-octyl phthalate	14.692	149	556097	20.567	ng	99
87) Indeno(1,2,3-cd)pyrene	17.092	276	382218	18.415	ng	99
88) Benzo(b)fluoranthene	15.151	252	494335	22.491	ng	99
89) Benzo(k)fluoranthene	15.180	252	376428	20.964	ng	99
90) Benzo(a)pyrene	15.527	252	354286	20.757	ng	99
91) Dibenzo(a,h)anthracene	17.109	278	317133	18.485	ng	99
92) Benzo(g,h,i)perylene	17.545	276	320648	18.281	ng	99

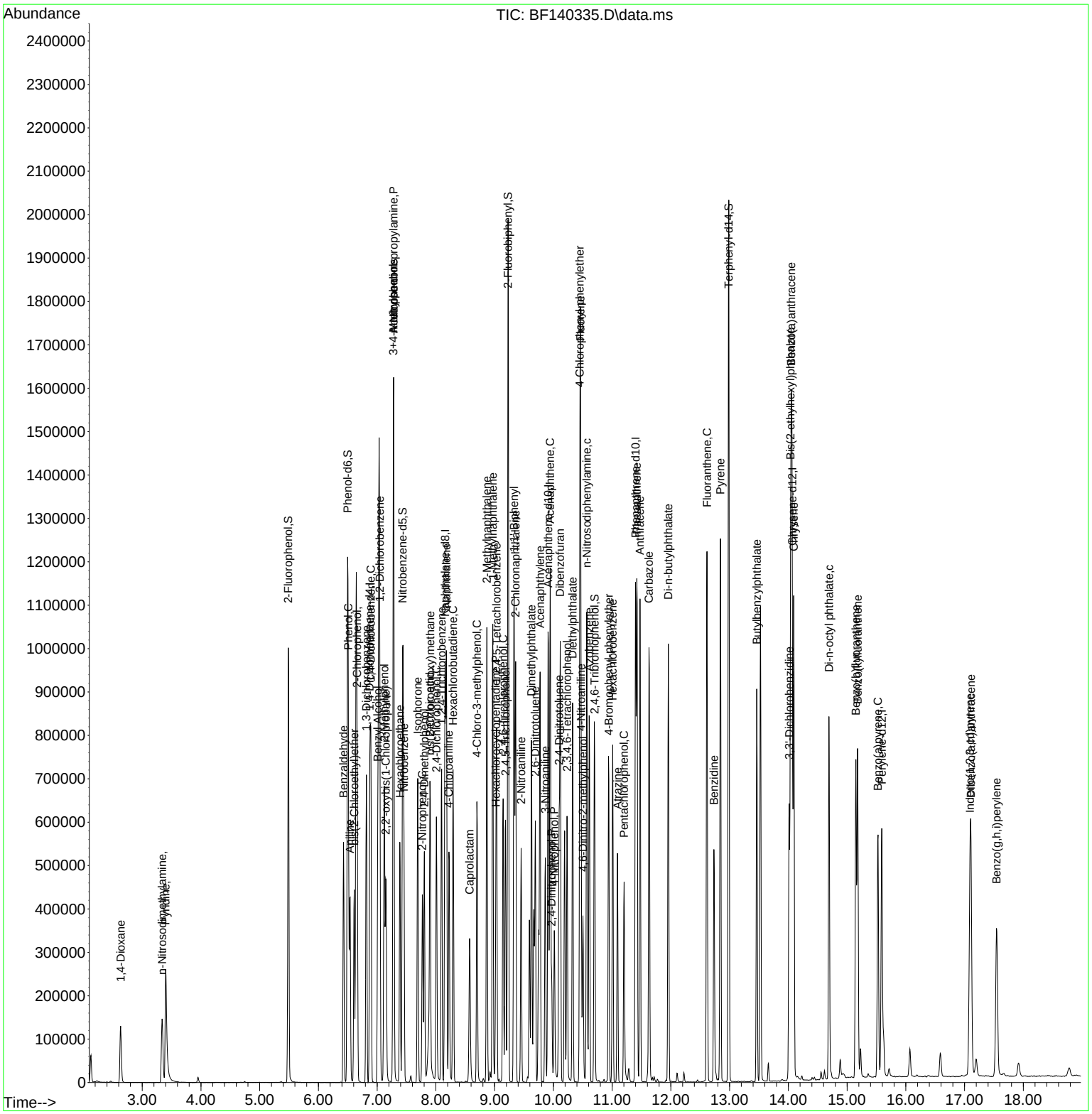
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140335.D
Acq On : 13 Nov 2024 10:29
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Nov 13 14:24:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140337.D
Acq On : 13 Nov 2024 11:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 13 14:26:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	173750	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	645813	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	355715	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	673585	20.000	ng	0.00
76) Chrysene-d12	14.057	240	373903	20.000	ng	0.00
86) Perylene-d12	15.563	264	343764	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	946604	93.020	ng	0.00
7) Phenol-d6	6.510	99	1288691	93.469	ng	0.00
23) Nitrobenzene-d5	7.445	82	1188653	95.898	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	339834	96.071	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	2000974	90.428	ng	0.00
79) Terphenyl-d14	12.992	244	2129859	98.876	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	215224	47.452	ng	99
3) Pyridine	3.410	79	516550	46.326	ng	99
4) n-Nitrosodimethylamine	3.375	42	279565	49.608	ng	97
6) Aniline	6.545	93	550294	45.882	ng	99
8) 2-Chlorophenol	6.669	128	510922	46.739	ng	98
9) Benzaldehyde	6.434	77	359475	43.503	ng	99
10) Phenol	6.528	94	687077	47.255	ng	95
11) bis(2-Chloroethyl)ether	6.616	93	533018	48.382	ng	98
12) 1,3-Dichlorobenzene	6.822	146	560974	46.511	ng	98
13) 1,4-Dichlorobenzene	6.898	146	567404	46.396	ng	99
14) 1,2-Dichlorobenzene	7.051	146	526417	46.367	ng	99
15) Benzyl Alcohol	7.022	79	477924	48.113	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	723520	47.546	ng	98
17) 2-Methylphenol	7.128	107	433403	48.196	ng	99
18) Hexachloroethane	7.392	117	217240	48.050	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	383726	46.082	ng	99
20) 3+4-Methylphenols	7.287	107	521407	46.364	ng	92
22) Acetophenone	7.292	105	700174	46.615	ng	98
24) Nitrobenzene	7.463	77	629010	48.740	ng	99
25) Isophorone	7.698	82	1056536	48.095	ng	100
26) 2-Nitrophenol	7.775	139	282885	49.397	ng	96
27) 2,4-Dimethylphenol	7.810	122	356541	48.629	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	642458	47.695	ng	100
29) 2,4-Dichlorophenol	8.016	162	439530	48.507	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	481552	47.735	ng	99
31) Naphthalene	8.181	128	1534595	46.842	ng	99
32) Benzoic acid	7.945	122	347409	53.939	ng	98
33) 4-Chloroaniline	8.234	127	538110	47.230	ng	99
34) Hexachlorobutadiene	8.298	225	304280	47.340	ng	98
35) Caprolactam	8.610	113	147323	48.359	ng	99
36) 4-Chloro-3-methylphenol	8.710	107	482944	48.095	ng	99
37) 2-Methylnaphthalene	8.869	142	985640	46.920	ng	100
38) 1-Methylnaphthalene	8.969	142	951332	46.247	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	466149	47.389	ng	99
41) Hexachlorocyclopentadiene	9.022	237	138691	54.914	ng	100
43) 2,4,6-Trichlorophenol	9.145	196	320277	49.613	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140337.D
Acq On : 13 Nov 2024 11:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 13 14:26:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	344237	48.773	ng	98
46) 1,1'-Biphenyl	9.334	154	1216913	47.025	ng	99
47) 2-Chloronaphthalene	9.363	162	945855	47.981	ng	99
48) 2-Nitroaniline	9.457	65	324847	49.689	ng	98
49) Acenaphthylene	9.781	152	1406468	47.156	ng	100
50) Dimethylphthalate	9.639	163	1108191	47.796	ng	100
51) 2,6-Dinitrotoluene	9.704	165	258909	48.982	ng	99
52) Acenaphthene	9.951	154	970618	48.182	ng	99
53) 3-Nitroaniline	9.869	138	272892	49.160	ng	98
54) 2,4-Dinitrophenol	9.975	184	158026	57.974	ng	97
55) Dibenzofuran	10.122	168	1335552	46.833	ng	100
56) 4-Nitrophenol	10.028	139	213518	52.733	ng	99
57) 2,4-Dinitrotoluene	10.104	165	343847	49.427	ng	97
58) Fluorene	10.463	166	1038836	46.112	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	274144	49.236	ng	99
60) Diethylphthalate	10.333	149	1130922	47.701	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	518480	46.617	ng	98
62) 4-Nitroaniline	10.486	138	280913	49.492	ng	99
63) Azobenzene	10.616	77	1112412	47.487	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	197492	54.495	ng	99
66) n-Nitrosodiphenylamine	10.575	169	910897	46.803	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	321760	47.787	ng	99
68) Hexachlorobenzene	11.016	284	351412	46.386	ng	98
69) Atrazine	11.098	200	261515	44.413	ng	99
70) Pentachlorophenol	11.204	266	220904	54.132	ng	99
71) Phenanthrene	11.428	178	1461484	46.188	ng	100
72) Anthracene	11.480	178	1447653	46.682	ng	100
73) Carbazole	11.633	167	1425182	46.543	ng	100
74) Di-n-butylphthalate	11.963	149	1745220	47.487	ng	100
75) Fluoranthene	12.616	202	1620115	45.637	ng	99
77) Benzidine	12.739	184	693785	48.345	ng	99
78) Pyrene	12.851	202	1615345	50.507	ng	99
80) Butylbenzylphthalate	13.463	149	626234	50.971	ng	97
81) Benzo(a)anthracene	14.045	228	1148657	46.743	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	379732	48.617	ng	99
83) Chrysene	14.086	228	1062734	47.398	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	801820	48.894	ng	100
85) Di-n-octyl phthalate	14.668	149	1109314	48.030	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1130711	53.247	ng	100
88) Benzo(b)fluoranthene	15.127	252	1061367	47.198	ng	100
89) Benzo(k)fluoranthene	15.157	252	818554	44.558	ng	99
90) Benzo(a)pyrene	15.504	252	833765	47.745	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	923159	52.593	ng	99
92) Benzo(g,h,i)perylene	17.533	276	963891	53.714	ng	99

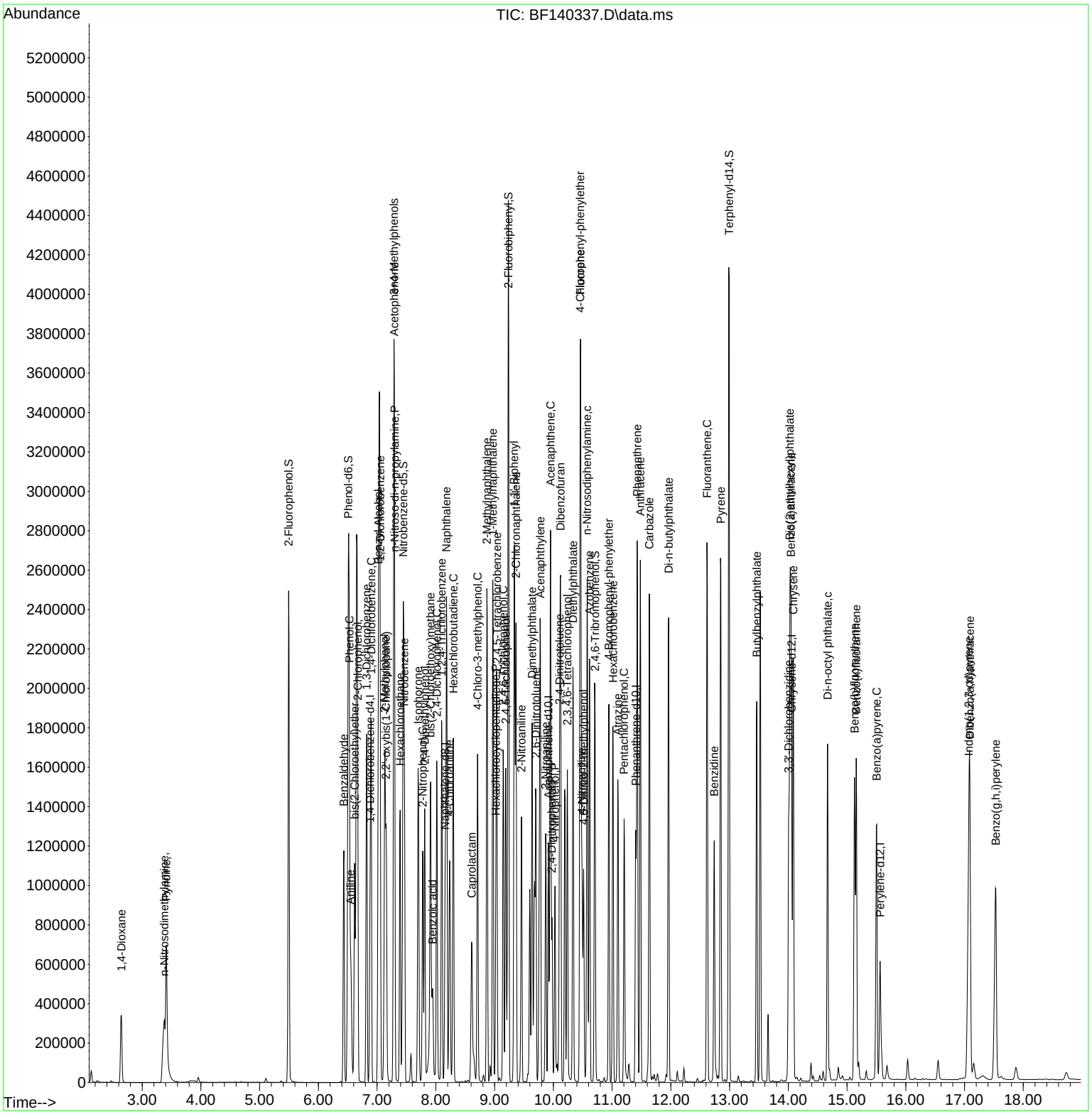
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140337.D
Acq On : 13 Nov 2024 11:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 13 14:26:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140338.D
Acq On : 13 Nov 2024 11:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 13 14:26:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	169226	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	626974	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	349852	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	653888	20.000	ng		0.00
76) Chrysene-d12	14.057	240	336717	20.000	ng		0.00
86) Perylene-d12	15.568	264	334279	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1135551	114.570	ng		0.00
7) Phenol-d6	6.516	99	1529819	113.924	ng		0.01
23) Nitrobenzene-d5	7.445	82	1426102	118.512	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	397743	114.327	ng		0.00
45) 2-Fluorobiphenyl	9.233	172	2330064	107.065	ng		0.00
79) Terphenyl-d14	12.992	244	2404917	123.975	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.646	88	257092	58.199	ng		99
3) Pyridine	3.416	79	627905	57.818	ng		100
4) n-Nitrosodimethylamine	3.387	42	340452	62.027	ng		97
6) Aniline	6.545	93	644899	55.207	ng	#	84
8) 2-Chlorophenol	6.669	128	601333	56.481	ng		99
9) Benzaldehyde	6.434	77	397310	49.367	ng		99
10) Phenol	6.528	94	810917	57.263	ng		94
11) bis(2-Chloroethyl)ether	6.622	93	633964	59.083	ng		98
12) 1,3-Dichlorobenzene	6.822	146	668862	56.939	ng		99
13) 1,4-Dichlorobenzene	6.898	146	673261	56.523	ng		99
14) 1,2-Dichlorobenzene	7.051	146	616097	55.716	ng		98
15) Benzyl Alcohol	7.022	79	562583	58.150	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	855004	57.688	ng		93
17) 2-Methylphenol	7.134	107	515819	58.895	ng		98
18) Hexachloroethane	7.392	117	256957	58.354	ng		98
19) n-Nitroso-di-n-propyla...	7.298	70	459430	56.648	ng		99
20) 3+4-Methylphenols	7.286	107	608092	55.518	ng		99
22) Acetophenone	7.292	105	829586	56.891	ng	#	98
24) Nitrobenzene	7.469	77	740612	59.113	ng		99
25) Isophorone	7.704	82	1261423	59.147	ng		100
26) 2-Nitrophenol	7.781	139	339960	61.146	ng		99
27) 2,4-Dimethylphenol	7.810	122	426510	59.920	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	760029	58.119	ng		99
29) 2,4-Dichlorophenol	8.022	162	511715	58.170	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	566322	57.824	ng		100
31) Naphthalene	8.186	128	1796725	56.491	ng		99
32) Benzoic acid	7.957	122	425502	68.049	ng		97
33) 4-Chloroaniline	8.239	127	639243	57.793	ng		100
34) Hexachlorobutadiene	8.298	225	358172	57.398	ng		100
35) Caprolactam	8.622	113	178777	60.447	ng		95
36) 4-Chloro-3-methylphenol	8.716	107	571401	58.614	ng		100
37) 2-Methylnaphthalene	8.875	142	1141963	55.995	ng		100
38) 1-Methylnaphthalene	8.975	142	1113216	55.742	ng		100
40) 1,2,4,5-Tetrachloroben...	9.039	216	542595	56.085	ng		100
41) Hexachlorocyclopentadiene	9.022	237	166455	67.012	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	369027	58.123	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140338.D
Acq On : 13 Nov 2024 11:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 13 14:26:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	408838	58.897	ng	99
46) 1,1'-Biphenyl	9.339	154	1409617	55.384	ng	100
47) 2-Chloronaphthalene	9.363	162	1100798	56.777	ng	99
48) 2-Nitroaniline	9.457	65	384307	59.769	ng	96
49) Acenaphthylene	9.780	152	1628948	55.531	ng	99
50) Dimethylphthalate	9.639	163	1305952	57.269	ng	100
51) 2,6-Dinitrotoluene	9.704	165	303778	58.434	ng	99
52) Acenaphthene	9.951	154	1132725	57.171	ng	100
53) 3-Nitroaniline	9.875	138	313217	57.370	ng	100
54) 2,4-Dinitrophenol	9.980	184	178562	66.606	ng	99
55) Dibenzofuran	10.122	168	1538256	54.845	ng	99
56) 4-Nitrophenol	10.033	139	249200	62.577	ng	99
57) 2,4-Dinitrotoluene	10.110	165	401261	58.647	ng	96
58) Fluorene	10.469	166	1193733	53.876	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	317173	57.919	ng	99
60) Diethylphthalate	10.339	149	1308229	56.104	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	594806	54.376	ng	99
62) 4-Nitroaniline	10.492	138	328847	58.909	ng	100
63) Azobenzene	10.616	77	1305799	56.677	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	234662	66.702	ng	97
66) n-Nitrosodiphenylamine	10.580	169	1061092	56.163	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	369051	56.461	ng	97
68) Hexachlorobenzene	11.016	284	422038	57.387	ng	98
69) Atrazine	11.104	200	402831	70.474	ng	99
70) Pentachlorophenol	11.210	266	255229	64.427	ng	99
71) Phenanthrene	11.427	178	1669857	54.363	ng	99
72) Anthracene	11.480	178	1644863	54.639	ng	99
73) Carbazole	11.633	167	1635888	55.034	ng	99
74) Di-n-butylphthalate	11.963	149	2005925	56.225	ng	100
75) Fluoranthene	12.621	202	1830547	53.118	ng	99
77) Benzidine	12.739	184	963069	74.521	ng	99
78) Pyrene	12.851	202	1817826	63.115	ng	99
80) Butylbenzylphthalate	13.463	149	687900	62.173	ng	98
81) Benzo(a)anthracene	14.045	228	1306865	59.054	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	419937	59.701	ng	100
83) Chrysene	14.086	228	1134734	56.198	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	877334	59.407	ng	99
85) Di-n-octyl phthalate	14.674	149	1253939	60.287	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	1357877	65.759	ng	100
88) Benzo(b)fluoranthene	15.133	252	1236880	56.564	ng	100
89) Benzo(k)fluoranthene	15.162	252	937366	52.473	ng	98
90) Benzo(a)pyrene	15.509	252	982982	57.887	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	1124071	65.856	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1149411	65.870	ng	98

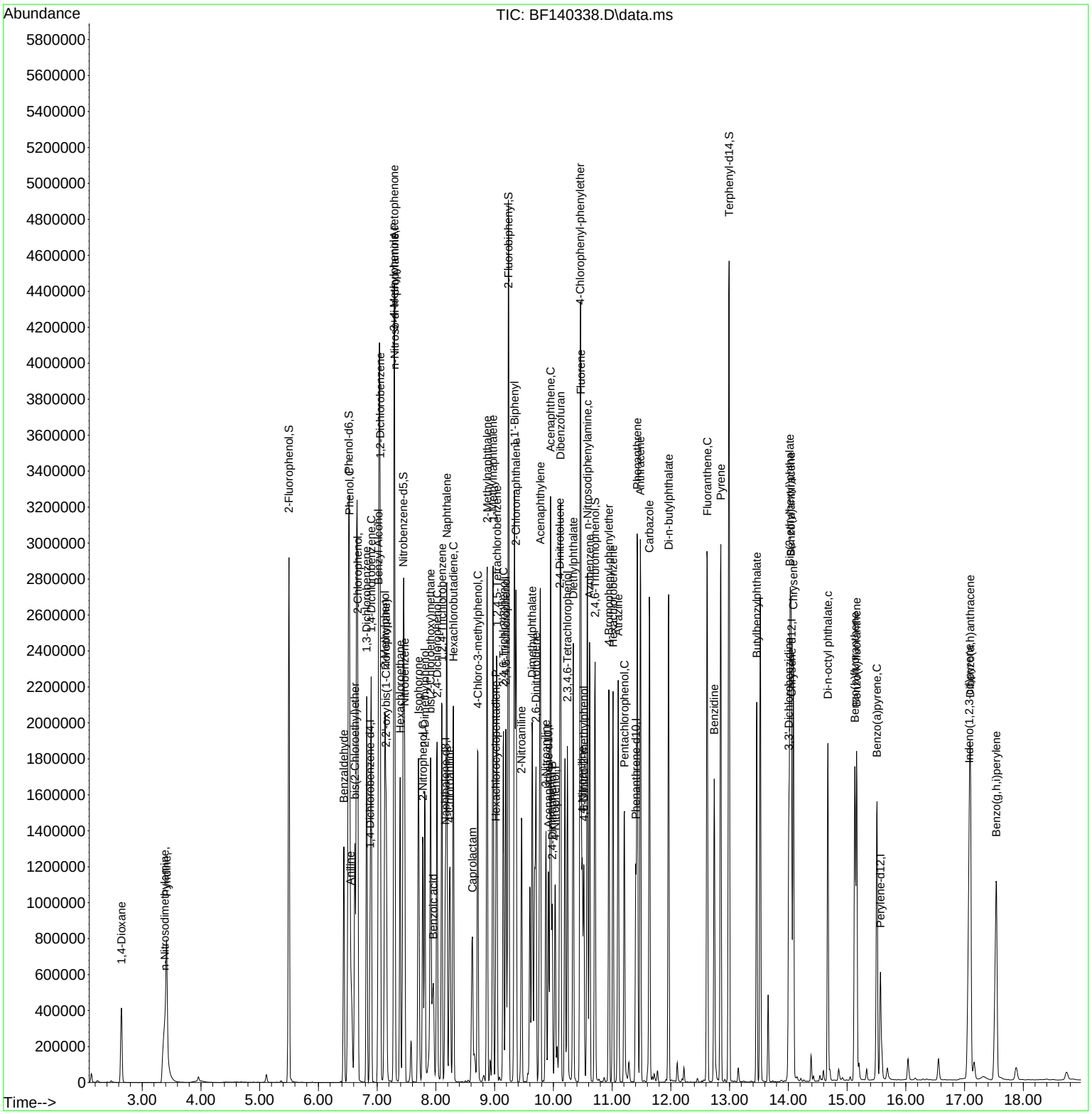
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140338.D
Acq On : 13 Nov 2024 11:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 13 14:26:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140339.D
Acq On : 13 Nov 2024 12:13
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:36:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	160348	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	586224	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	324351	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	591968	20.000	ng		0.00
76) Chrysene-d12	14.057	240	305715	20.000	ng		0.00
86) Perylene-d12	15.562	264	310894	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1324090	140.989	ng		0.00
7) Phenol-d6	6.522	99	1804257	141.801	ng		0.02
23) Nitrobenzene-d5	7.451	82	1661144	147.640	ng		0.01
42) 2,4,6-Tribromophenol	10.710	330	471699	146.244	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	2675376	132.597	ng		0.00
79) Terphenyl-d14	12.992	244	2674139	151.833	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.651	88	307882	73.555	ng		100
3) Pyridine	3.422	79	735683	71.493	ng		99
4) n-Nitrosodimethylamine	3.398	42	402441	77.381	ng		99
6) Aniline	6.551	93	684015	61.797	ng	#	84
8) 2-Chlorophenol	6.675	128	709152	70.295	ng		99
10) Phenol	6.534	94	947993	70.649	ng		92
11) bis(2-Chloroethyl)ether	6.622	93	756191	74.376	ng		99
12) 1,3-Dichlorobenzene	6.822	146	783204	70.364	ng		98
13) 1,4-Dichlorobenzene	6.898	146	783319	69.404	ng		99
14) 1,2-Dichlorobenzene	7.057	146	710399	67.802	ng		99
15) Benzyl Alcohol	7.028	79	654439	71.389	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	993408	70.738	ng		96
17) 2-Methylphenol	7.133	107	604396	72.829	ng		98
18) Hexachloroethane	7.392	117	300328	71.979	ng		98
19) n-Nitroso-di-n-propyla...	7.304	70	543998	70.790	ng		100
20) 3+4-Methylphenols	7.292	107	699451	67.394	ng		96
22) Acetophenone	7.298	105	963095	70.637	ng		99
24) Nitrobenzene	7.469	77	870976	74.350	ng		99
25) Isophorone	7.704	82	1487295	74.586	ng		100
26) 2-Nitrophenol	7.781	139	401982	77.328	ng		99
27) 2,4-Dimethylphenol	7.816	122	500708	75.234	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	887655	72.597	ng		100
29) 2,4-Dichlorophenol	8.022	162	597530	72.647	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	663478	72.454	ng		99
31) Naphthalene	8.186	128	2076967	69.842	ng		99
32) Benzoic acid	7.969	122	529009	90.483	ng		96
33) 4-Chloroaniline	8.245	127	729859	70.572	ng		99
34) Hexachlorobutadiene	8.298	225	417242	71.513	ng		100
35) Caprolactam	8.627	113	208353m	75.344	ng		
36) 4-Chloro-3-methylphenol	8.716	107	672162	73.742	ng		100
37) 2-Methylnaphthalene	8.875	142	1323889	69.428	ng		100
38) 1-Methylnaphthalene	8.975	142	1289276	69.046	ng		99
40) 1,2,4,5-Tetrachloroben...	9.039	216	629856	70.223	ng		100
41) Hexachlorocyclopentadiene	9.022	237	187869	81.579	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	442116	75.110	ng		99
44) 2,4,5-Trichlorophenol	9.198	196	468390	72.781	ng		98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140339.D
Acq On : 13 Nov 2024 12:13
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Nov 13 14:36:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.339	154	1613420	68.375	ng	99
47) 2-Chloronaphthalene	9.363	162	1259442	70.067	ng	98
48) 2-Nitroaniline	9.463	65	454975	76.323	ng	98
49) Acenaphthylene	9.780	152	1869941	68.758	ng	99
50) Dimethylphthalate	9.645	163	1532197	72.473	ng	100
51) 2,6-Dinitrotoluene	9.704	165	348019	72.207	ng	93
52) Acenaphthene	9.951	154	1305360	71.065	ng	99
53) 3-Nitroaniline	9.874	138	356185	70.369	ng	98
54) 2,4-Dinitrophenol	9.980	184	217511	87.514	ng	98
55) Dibenzofuran	10.127	168	1743431	67.047	ng	100
56) 4-Nitrophenol	10.033	139	291787	79.032	ng	96
57) 2,4-Dinitrotoluene	10.110	165	454770	71.693	ng	94
58) Fluorene	10.469	166	1382804	67.316	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	374293	73.723	ng	100
60) Diethylphthalate	10.339	149	1537607	71.126	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	685111	67.555	ng	99
62) 4-Nitroaniline	10.498	138	385246	74.437	ng	100
63) Azobenzene	10.621	77	1508804	70.637	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	274337	86.136	ng	99
66) n-Nitrosodiphenylamine	10.580	169	1237130	72.330	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	426112	72.010	ng	99
68) Hexachlorobenzene	11.016	284	491825	73.871	ng	99
69) Atrazine	11.110	200	495230	95.702	ng	99
70) Pentachlorophenol	11.210	266	308099	85.908	ng	99
71) Phenanthrene	11.433	178	1941678	69.825	ng	99
72) Anthracene	11.486	178	1901483	69.770	ng	100
73) Carbazole	11.639	167	1853513	68.878	ng	99
74) Di-n-butylphthalate	11.963	149	2283744	70.708	ng	100
75) Fluoranthene	12.621	202	2053832	65.832	ng	99
77) Benzidine	12.739	184	1147944	97.835	ng	99
78) Pyrene	12.851	202	2044224	78.173	ng	99
80) Butylbenzylphthalate	13.462	149	768354	76.487	ng	98
81) Benzo(a)anthracene	14.045	228	1461193	72.724	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	488462	76.486	ng	99
83) Chrysene	14.086	228	1343316	73.275	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	994724	74.186	ng	99
85) Di-n-octyl phthalate	14.668	149	1481946	78.474	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1638318	85.308	ng	99
88) Benzo(b)fluoranthene	15.127	252	1490709	73.300	ng	100
89) Benzo(k)fluoranthene	15.156	252	1103915	66.445	ng	98
90) Benzo(a)pyrene	15.504	252	1179142	74.662	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	1339293	84.367	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1392525	85.805	ng	99

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

ICAL Form

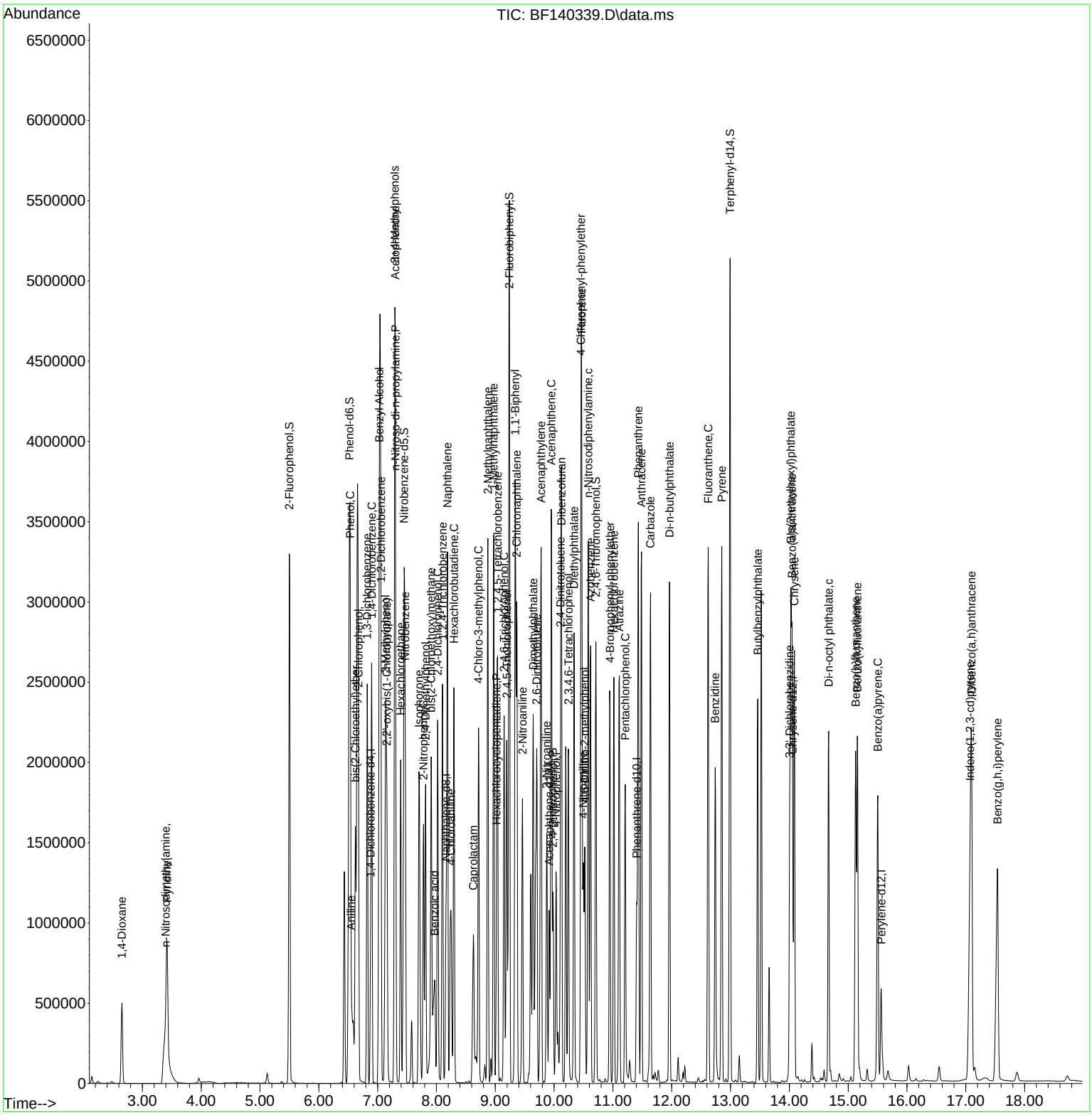
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140339.D
Acq On : 13 Nov 2024 12:13
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 13 14:36:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147186	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	589077	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	334544	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	628587	20.000	ng	0.00
76) Chrysene-d12	14.063	240	385940	20.000	ng	0.01
86) Perylene-d12	15.580	264	322417	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	677089	78.544	ng	0.00
7) Phenol-d6	6.504	99	945074	80.918	ng	0.00
23) Nitrobenzene-d5	7.440	82	884247	78.210	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	257655	77.449	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568502	75.369	ng	0.00
79) Terphenyl-d14	12.986	244	1733989	77.987	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	151541	39.442	ng	99
3) Pyridine	3.399	79	387454	41.019	ng	99
4) n-Nitrosodimethylamine	3.352	42	193917	40.620	ng	97
6) Aniline	6.540	93	427252	42.052	ng	100
8) 2-Chlorophenol	6.663	128	371904	40.162	ng	100
9) Benzaldehyde	6.428	77	262348	37.479	ng	99
10) Phenol	6.516	94	507443	41.199	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	371673	39.825	ng	99
12) 1,3-Dichlorobenzene	6.816	146	404387	39.579	ng	99
13) 1,4-Dichlorobenzene	6.893	146	409423	39.520	ng	99
14) 1,2-Dichlorobenzene	7.051	146	380948	39.610	ng	100
15) Benzyl Alcohol	7.016	79	356418	42.357	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	534596	41.471	ng	99
17) 2-Methylphenol	7.128	107	313127	41.105	ng	99
18) Hexachloroethane	7.387	117	151355	39.519	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	288974	40.966	ng	98
20) 3+4-Methylphenols	7.281	107	397692	41.745	ng	96
22) Acetophenone	7.287	105	529699	38.662	ng	98
24) Nitrobenzene	7.457	77	462701	39.307	ng	99
25) Isophorone	7.698	82	793806	39.616	ng	99
26) 2-Nitrophenol	7.775	139	210859	40.366	ng	99
27) 2,4-Dimethylphenol	7.804	122	262308	39.222	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	479505	39.027	ng	100
29) 2,4-Dichlorophenol	8.016	162	323936	39.193	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	355366	38.619	ng	100
31) Naphthalene	8.181	128	1157149	38.723	ng	100
32) Benzoic acid	7.928	122	249383	42.449	ng	96
33) 4-Chloroaniline	8.228	127	400271	38.516	ng	100
34) Hexachlorobutadiene	8.292	225	227805	38.855	ng	99
35) Caprolactam	8.598	113	108216	38.943	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	364230	39.766	ng	99
37) 2-Methylnaphthalene	8.869	142	744201	38.839	ng	99
38) 1-Methylnaphthalene	8.969	142	736798	39.267	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	354978	38.371	ng	99
41) Hexachlorocyclopentadiene	9.022	237	93127	39.207	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	240824	39.666	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	2,4,5-Trichlorophenol	9.187	196	260135	39.190	ng	99
46)	1,1'-Biphenyl	9.334	154	939571	38.605	ng	99
47)	2-Chloronaphthalene	9.357	162	712904	38.453	ng	99
48)	2-Nitroaniline	9.457	65	243614	39.621	ng	99
49)	Acenaphthylene	9.775	152	1094318	39.012	ng	100
50)	Dimethylphthalate	9.634	163	843750	38.694	ng	100
51)	2,6-Dinitrotoluene	9.698	165	198967	40.024	ng	99
52)	Acenaphthene	9.951	154	733408	38.711	ng	100
53)	3-Nitroaniline	9.869	138	207550	39.755	ng	100
54)	2,4-Dinitrophenol	9.975	184	98545	38.441	ng	98
55)	Dibenzofuran	10.122	168	1042453	38.868	ng	100
56)	4-Nitrophenol	10.022	139	157938	41.475	ng	98
57)	2,4-Dinitrotoluene	10.104	165	258886	39.569	ng	98
58)	Fluorene	10.463	166	804084	37.951	ng	99
59)	2,3,4,6-Tetrachlorophenol	10.239	232	212533	40.586	ng	99
60)	Diethylphthalate	10.334	149	861287	38.627	ng	99
61)	4-Chlorophenyl-phenyle...	10.451	204	403914	38.614	ng	99
62)	4-Nitroaniline	10.481	138	213640	40.022	ng	100
63)	Azobenzene	10.616	77	865008	39.263	ng	99
65)	4,6-Dinitro-2-methylph...	10.510	198	136662	40.409	ng	98
66)	n-Nitrosodiphenylamine	10.575	169	703286	38.723	ng	100
67)	4-Bromophenyl-phenylether	10.945	248	243728	38.789	ng	100
68)	Hexachlorobenzene	11.010	284	273839	38.734	ng	98
69)	Atrazine	11.098	200	181993	33.121	ng	99
70)	Pentachlorophenol	11.204	266	160120	42.046	ng	98
71)	Phenanthrene	11.428	178	1135052	38.440	ng	100
72)	Anthracene	11.481	178	1117453	38.613	ng	100
73)	Carbazole	11.633	167	1101588	38.551	ng	100
74)	Di-n-butylphthalate	11.957	149	1350065	39.365	ng	100
75)	Fluoranthene	12.616	202	1279456	38.621	ng	100
77)	Benzidine	12.739	184	504166	34.036	ng	99
78)	Pyrene	12.845	202	1295809	39.252	ng	100
80)	Butylbenzylphthalate	13.463	149	532219	41.968	ng	97
81)	Benzo(a)anthracene	14.051	228	975194	38.447	ng	99
82)	3,3'-Dichlorobenzidine	14.010	252	310326	38.491	ng	99
83)	Chrysene	14.086	228	901424	38.950	ng	100
84)	Bis(2-ethylhexyl)phtha...	14.033	149	715490	42.269	ng	100
85)	Di-n-octyl phthalate	14.680	149	995484	41.757	ng	100
87)	Indeno(1,2,3-cd)pyrene	17.086	276	811059	40.723	ng	100
88)	Benzo(b)fluoranthene	15.139	252	814405	38.614	ng	100
89)	Benzo(k)fluoranthene	15.174	252	683609	39.676	ng	99
90)	Benzo(a)pyrene	15.516	252	648346	39.585	ng	99
91)	Dibenzo(a,h)anthracene	17.104	278	670243	40.712	ng	99
92)	Benzo(g,h,i)perylene	17.545	276	685184	40.711	ng	100

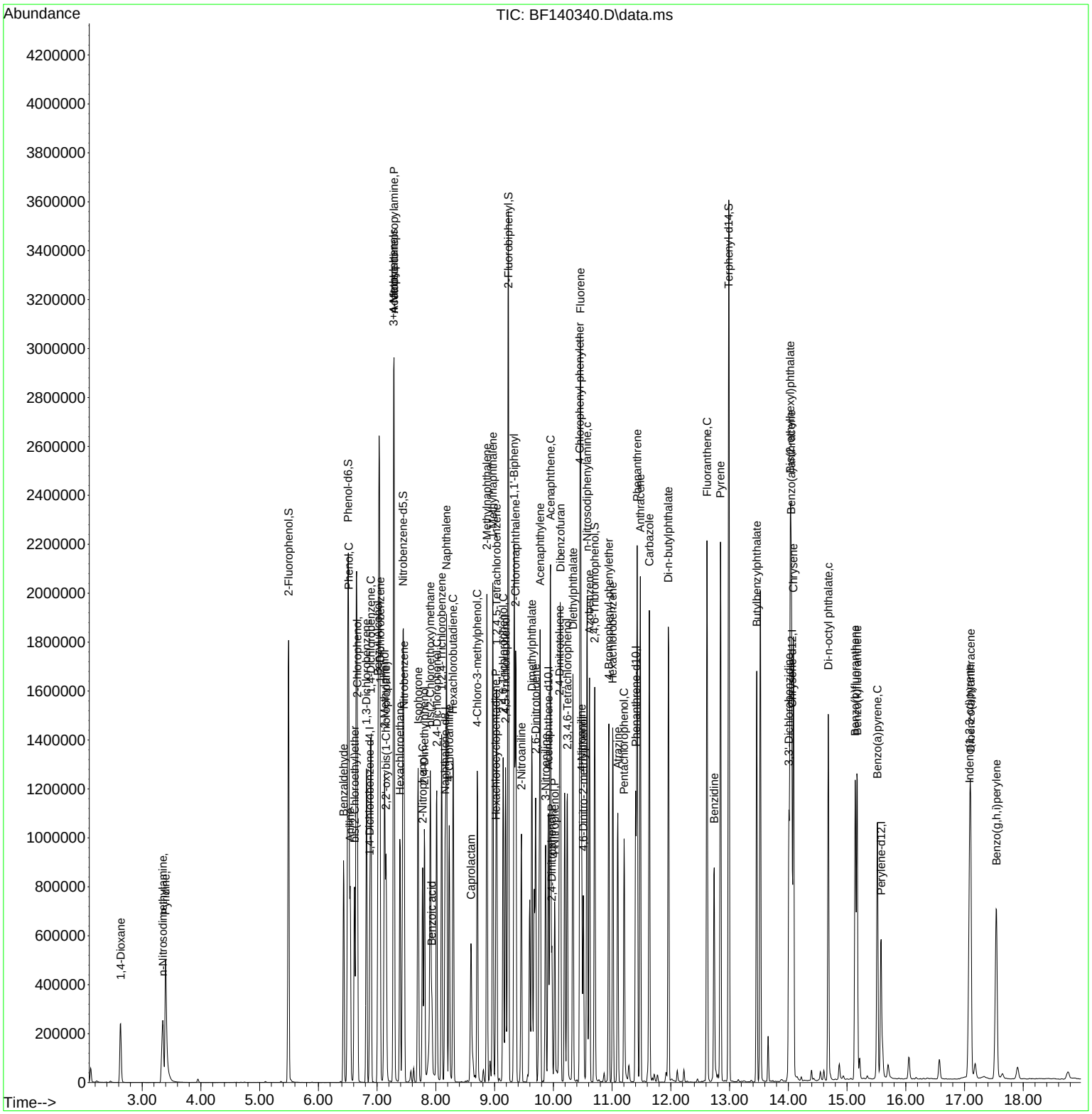
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140340.D
Acq On : 13 Nov 2024 12:48
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149980	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	587913	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	333123	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	631059	20.000	ng	0.00
76) Chrysene-d12	14.063	240	366437	20.000	ng	0.01
86) Perylene-d12	15.574	264	319261	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	684092	77.878	ng	0.00
7) Phenol-d6	6.504	99	943149	79.248	ng	0.00
23) Nitrobenzene-d5	7.440	82	885901	78.511	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	260432	78.617	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568824	75.707	ng	0.00
79) Terphenyl-d14	12.986	244	1705668	80.797	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	155026	39.597	ng	99
3) Pyridine	3.405	79	391304	40.655	ng	99
4) n-Nitrosodimethylamine	3.357	42	194133	39.908	ng	98
6) Aniline	6.540	93	429973	41.531	ng	99
8) 2-Chlorophenol	6.663	128	373546	39.588	ng	100
9) Benzaldehyde	6.428	77	266318	37.337	ng	99
10) Phenol	6.516	94	505284	40.259	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	374368	39.367	ng	99
12) 1,3-Dichlorobenzene	6.816	146	407569	39.148	ng	99
13) 1,4-Dichlorobenzene	6.898	146	410968	38.930	ng	100
14) 1,2-Dichlorobenzene	7.051	146	381749	38.953	ng	100
15) Benzyl Alcohol	7.016	79	356665	41.596	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	529417	40.304	ng	100
17) 2-Methylphenol	7.128	107	312261	40.228	ng	99
18) Hexachloroethane	7.387	117	152783	39.149	ng	98
19) n-Nitroso-di-n-propyla...	7.292	70	288082	40.079	ng	99
20) 3+4-Methylphenols	7.281	107	398279	41.028	ng	99
22) Acetophenone	7.287	105	530294	38.782	ng	99
24) Nitrobenzene	7.463	77	461518	39.284	ng	99
25) Isophorone	7.698	82	791096	39.558	ng	100
26) 2-Nitrophenol	7.775	139	212967	40.850	ng	100
27) 2,4-Dimethylphenol	7.804	122	270554	40.536	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	481393	39.258	ng	99
29) 2,4-Dichlorophenol	8.016	162	326198	39.545	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	356725	38.843	ng	99
31) Naphthalene	8.181	128	1159811	38.889	ng	100
32) Benzoic acid	7.928	122	250402	42.635	ng	97
33) 4-Chloroaniline	8.228	127	404464	38.996	ng	99
34) Hexachlorobutadiene	8.298	225	227054	38.804	ng	99
35) Caprolactam	8.598	113	110611	40.345	ng	99
36) 4-Chloro-3-methylphenol	8.704	107	368906	40.356	ng	100
37) 2-Methylnaphthalene	8.869	142	747189	39.072	ng	100
38) 1-Methylnaphthalene	8.969	142	729079	38.933	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	356102	38.657	ng	100
41) Hexachlorocyclopentadiene	9.022	237	90509	38.267	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	240423	39.769	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	254749	38.542	ng	100
46) 1,1'-Biphenyl	9.334	154	946801	39.068	ng	99
47) 2-Chloronaphthalene	9.363	162	711544	38.543	ng	100
48) 2-Nitroaniline	9.457	65	243803	39.821	ng	99
49) Acenaphthylene	9.775	152	1088251	38.962	ng	100
50) Dimethylphthalate	9.634	163	845361	38.933	ng	99
51) 2,6-Dinitrotoluene	9.698	165	197768	39.952	ng	100
52) Acenaphthene	9.951	154	738443	39.143	ng	100
53) 3-Nitroaniline	9.869	138	206946	39.809	ng	99
54) 2,4-Dinitrophenol	9.975	184	102497	40.153	ng	99
55) Dibenzofuran	10.122	168	1049030	39.280	ng	99
56) 4-Nitrophenol	10.022	139	158431	41.782	ng	99
57) 2,4-Dinitrotoluene	10.104	165	262271	40.258	ng	100
58) Fluorene	10.463	166	811348	38.457	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	206672	39.601	ng	99
60) Diethylphthalate	10.333	149	864678	38.945	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	400645	38.465	ng	99
62) 4-Nitroaniline	10.481	138	210281	39.561	ng	99
63) Azobenzene	10.616	77	869821	39.649	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	139694	41.144	ng	100
66) n-Nitrosodiphenylamine	10.575	169	709758	38.926	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	246390	39.059	ng	99
68) Hexachlorobenzene	11.010	284	277113	39.043	ng	99
69) Atrazine	11.098	200	180055	32.640	ng	98
70) Pentachlorophenol	11.204	266	159402	41.693	ng	99
71) Phenanthrene	11.428	178	1127194	38.024	ng	99
72) Anthracene	11.480	178	1114551	38.362	ng	100
73) Carbazole	11.633	167	1109519	38.676	ng	100
74) Di-n-butylphthalate	11.957	149	1356287	39.391	ng	100
75) Fluoranthene	12.616	202	1270353	38.196	ng	99
77) Benzidine	12.739	184	546613	38.866	ng	99
78) Pyrene	12.845	202	1274659	40.667	ng	100
80) Butylbenzylphthalate	13.463	149	512452	42.560	ng	98
81) Benzo(a)anthracene	14.051	228	947117	39.327	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	304604	39.793	ng	99
83) Chrysene	14.086	228	869491	39.569	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	678437	42.213	ng	100
85) Di-n-octyl phthalate	14.680	149	915547	40.448	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	815903	41.371	ng	100
88) Benzo(b)fluoranthene	15.139	252	775920	37.153	ng	99
89) Benzo(k)fluoranthene	15.168	252	693105	40.625	ng	99
90) Benzo(a)pyrene	15.510	252	637970	39.337	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	682579	41.871	ng	100
92) Benzo(g,h,i)perylene	17.539	276	677222	40.635	ng	99

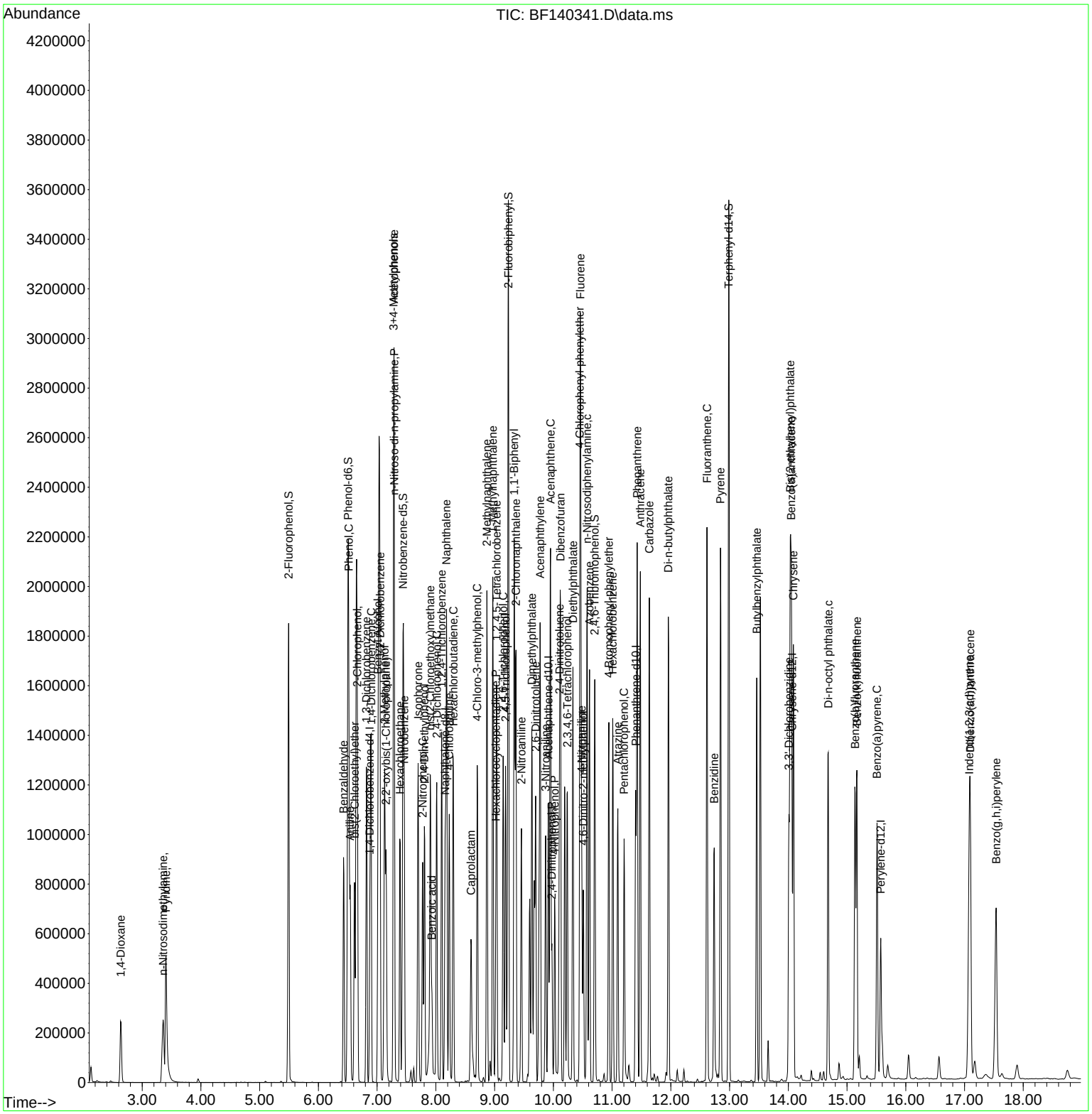
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	102	0.00
2		1,4-Dioxane	0.522	0.517	1.0	102	0.00
3		Pyridine	1.283	1.305	-1.7	101	0.00
4		n-Nitrosodimethylamine	0.649	0.647	0.3	100	0.00
5	S	2-Fluorophenol	1.171	1.140	2.6	101	0.00
6		Aniline	1.381	1.433	-3.8	101	0.00
7	S	Phenol-d6	1.587	1.572	0.9	100	0.00
8		2-Chlorophenol	1.258	1.245	1.0	100	0.00
9		Benzaldehyde	0.951	0.888	6.6	102	0.00
10	C	Phenol	1.674	1.685	-0.7	100	0.00
11		bis(2-Chloroethyl)ether	1.268	1.248	1.6	101	0.00
12		1,3-Dichlorobenzene	1.388	1.359	2.1	101	0.00
13	C	1,4-Dichlorobenzene	1.408	1.370	2.7	100	0.00
14		1,2-Dichlorobenzene	1.307	1.273	2.6	100	0.00
15		Benzyl Alcohol	1.143	1.189	-4.0	100	0.00
16		2,2'-oxybis(1-Chloropropane	1.752	1.765	-0.7	99	0.00
17		2-Methylphenol	1.035	1.041	-0.6	100	0.00
18		Hexachloroethane	0.520	0.509	2.1	101	0.00
19	P	n-Nitroso-di-n-propylamine	0.959	0.960	-0.1	100	0.00
20		3+4-Methylphenols	1.294	1.328	-2.6	100	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
22		Acetophenone	0.465	0.451	3.0	100	0.00
23	S	Nitrobenzene-d5	0.384	0.377	1.8	100	0.00
24		Nitrobenzene	0.400	0.393	1.8	100	0.00
25		Isophorone	0.680	0.673	1.0	100	0.00
26	C	2-Nitrophenol	0.177	0.181	-2.3	101	0.00
27		2,4-Dimethylphenol	0.227	0.230	-1.3	103	0.00
28		bis(2-Chloroethoxy)methane	0.417	0.409	1.9	100	0.00
29	C	2,4-Dichlorophenol	0.281	0.277	1.4	101	0.00
30		1,2,4-Trichlorobenzene	0.312	0.303	2.9	100	0.00
31		Naphthalene	1.015	0.986	2.9	100	0.00
32		Benzoic acid	0.200	0.213	-6.5	100	0.00
33		4-Chloroaniline	0.353	0.344	2.5	101	0.00
34	C	Hexachlorobutadiene	0.199	0.193	3.0	100	0.00
35		Caprolactam	0.093	0.094	-1.1	102	0.00
36	C	4-Chloro-3-methylphenol	0.311	0.314	-1.0	101	0.00
37		2-Methylnaphthalene	0.651	0.635	2.5	100	0.00
38		1-Methylnaphthalene	0.637	0.620	2.7	99	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	0.553	0.534	3.4	100	0.00
41	P	Hexachlorocyclopentadiene	0.142	0.136	4.2	97	0.00
42	S	2,4,6-Tribromophenol	0.199	0.195	2.0	101	0.00
43	C	2,4,6-Trichlorophenol	0.363	0.361	0.6	100	0.00
44		2,4,5-Trichlorophenol	0.397	0.382	3.8	98	0.00
45	S	2-Fluorobiphenyl	1.244	1.177	5.4	100	0.00
46		1,1'-Biphenyl	1.455	1.421	2.3	101	0.00
47		2-Chloronaphthalene	1.108	1.068	3.6	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	0.368	0.366	0.5	100	0.00
49		Acenaphthylene	1.677	1.633	2.6	99	0.00
50		Dimethylphthalate	1.304	1.269	2.7	100	0.00
51		2,6-Dinitrotoluene	0.297	0.297	0.0	99	0.00
52	C	Acenaphthene	1.133	1.108	2.2	101	0.00
53		3-Nitroaniline	0.312	0.311	0.3	100	0.00
54	P	2,4-Dinitrophenol	0.153	0.154	-0.7	104	0.00
55		Dibenzofuran	1.603	1.575	1.7	101	0.00
56	P	4-Nitrophenol	0.228	0.238	-4.4	100	0.00
57		2,4-Dinitrotoluene	0.391	0.394	-0.8	101	0.00
58		Fluorene	1.267	1.218	3.9	101	0.00
59		2,3,4,6-Tetrachlorophenol	0.313	0.310	1.0	97	0.00
60		Diethylphthalate	1.333	1.298	2.6	100	0.00
61		4-Chlorophenyl-phenylether	0.625	0.601	3.8	99	0.00
62		4-Nitroaniline	0.319	0.316	0.9	98	0.00
63		Azobenzene	1.317	1.306	0.8	101	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	0.108	0.111	-2.8	102	0.00
66	c	n-Nitrosodiphenylamine	0.578	0.562	2.8	101	0.00
67		4-Bromophenyl-phenylether	0.200	0.195	2.5	101	0.00
68		Hexachlorobenzene	0.225	0.220	2.2	101	0.00
69		Atrazine	0.175	0.143	18.3	99	0.00
70	C	Pentachlorophenol	0.121	0.126	-4.1	100	0.00
71		Phenanthrene	0.940	0.893	5.0	99	0.00
72		Anthracene	0.921	0.883	4.1	100	0.00
73		Carbazole	0.909	0.879	3.3	101	0.00
74		Di-n-butylphthalate	1.091	1.075	1.5	100	0.00
75	C	Fluoranthene	1.054	1.007	4.5	99	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	95	0.01
77		Benzidine	0.768	0.746	2.9	108	0.00
78		Pyrene	1.711	1.739	-1.6	98	0.00
79	S	Terphenyl-d14	1.152	1.164	-1.0	98	0.00
80		Butylbenzylphthalate	0.657	0.699	-6.4	96	0.00
81		Benzo(a)anthracene	1.314	1.292	1.7	97	0.01
82		3,3'-Dichlorobenzidine	0.418	0.416	0.5	98	0.01
83		Chrysene	1.199	1.186	1.1	96	0.00
84		Bis(2-ethylhexyl)phthalate	0.877	0.926	-5.6	95	0.01
85	c	Di-n-octyl phthalate	1.235	1.249	-1.1	92	0.02
86	I	Perylene-d12	1.000	1.000	0.0	99	0.02
87		Indeno(1,2,3-cd)pyrene	1.235	1.278	-3.5	101	0.02
88		Benzo(b)fluoranthene	1.308	1.215	7.1	95	0.02
89		Benzo(k)fluoranthene	1.069	1.085	-1.5	101	0.02
90	C	Benzo(a)pyrene	1.016	0.999	1.7	98	0.02
91		Dibenzo(a,h)anthracene	1.021	1.069	-4.7	102	0.02
92		Benzo(g,h,i)perylene	1.044	1.061	-1.6	99	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
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Instrument :
BNA_F
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ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	102	0.00
2		1,4-Dioxane	40.000	39.597	1.0	102	0.00
3		Pyridine	40.000	40.655	-1.6	101	0.00
4		n-Nitrosodimethylamine	40.000	39.908	0.2	100	0.00
5	S	2-Fluorophenol	80.000	77.878	2.7	101	0.00
6		Aniline	40.000	41.531	-3.8	101	0.00
7	S	Phenol-d6	80.000	79.248	0.9	100	0.00
8		2-Chlorophenol	40.000	39.588	1.0	100	0.00
9		Benzaldehyde	40.000	37.337	6.7	102	0.00
10	C	Phenol	40.000	40.259	-0.6	100	0.00
11		bis(2-Chloroethyl)ether	40.000	39.367	1.6	101	0.00
12		1,3-Dichlorobenzene	40.000	39.148	2.1	101	0.00
13	C	1,4-Dichlorobenzene	40.000	38.930	2.7	100	0.00
14		1,2-Dichlorobenzene	40.000	38.953	2.6	100	0.00
15		Benzyl Alcohol	40.000	41.596	-4.0	100	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.304	-0.8	99	0.00
17		2-Methylphenol	40.000	40.228	-0.6	100	0.00
18		Hexachloroethane	40.000	39.149	2.1	101	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.079	-0.2	100	0.00
20		3+4-Methylphenols	40.000	41.028	-2.6	100	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	100	0.00
22		Acetophenone	40.000	38.782	3.0	100	0.00
23	S	Nitrobenzene-d5	80.000	78.511	1.9	100	0.00
24		Nitrobenzene	40.000	39.284	1.8	100	0.00
25		Isophorone	40.000	39.558	1.1	100	0.00
26	C	2-Nitrophenol	40.000	40.850	-2.1	101	0.00
27		2,4-Dimethylphenol	40.000	40.536	-1.3	103	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.258	1.9	100	0.00
29	C	2,4-Dichlorophenol	40.000	39.545	1.1	101	0.00
30		1,2,4-Trichlorobenzene	40.000	38.843	2.9	100	0.00
31		Naphthalene	40.000	38.889	2.8	100	0.00
32		Benzoic acid	40.000	42.635	-6.6	100	0.00
33		4-Chloroaniline	40.000	38.996	2.5	101	0.00
34	C	Hexachlorobutadiene	40.000	38.804	3.0	100	0.00
35		Caprolactam	40.000	40.345	-0.9	102	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.356	-0.9	101	0.00
37		2-Methylnaphthalene	40.000	39.072	2.3	100	0.00
38		1-Methylnaphthalene	40.000	38.933	2.7	99	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.657	3.4	100	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.267	4.3	97	0.00
42	S	2,4,6-Tribromophenol	80.000	78.617	1.7	101	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.769	0.6	100	0.00
44		2,4,5-Trichlorophenol	40.000	38.542	3.6	98	0.00
45	S	2-Fluorobiphenyl	80.000	75.707	5.4	100	0.00
46		1,1'-Biphenyl	40.000	39.068	2.3	101	0.00
47		2-Chloronaphthalene	40.000	38.543	3.6	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	39.821	0.4	100	0.00
49		Acenaphthylene	40.000	38.962	2.6	99	0.00
50		Dimethylphthalate	40.000	38.933	2.7	100	0.00
51		2,6-Dinitrotoluene	40.000	39.952	0.1	99	0.00
52	C	Acenaphthene	40.000	39.143	2.1	101	0.00
53		3-Nitroaniline	40.000	39.809	0.5	100	0.00
54	P	2,4-Dinitrophenol	40.000	40.153	-0.4	104	0.00
55		Dibenzofuran	40.000	39.280	1.8	101	0.00
56	P	4-Nitrophenol	40.000	41.782	-4.5	100	0.00
57		2,4-Dinitrotoluene	40.000	40.258	-0.6	101	0.00
58		Fluorene	40.000	38.457	3.9	101	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.601	1.0	97	0.00
60		Diethylphthalate	40.000	38.945	2.6	100	0.00
61		4-Chlorophenyl-phenylether	40.000	38.465	3.8	99	0.00
62		4-Nitroaniline	40.000	39.561	1.1	98	0.00
63		Azobenzene	40.000	39.649	0.9	101	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.144	-2.9	102	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.926	2.7	101	0.00
67		4-Bromophenyl-phenylether	40.000	39.059	2.4	101	0.00
68		Hexachlorobenzene	40.000	39.043	2.4	101	0.00
69		Atrazine	40.000	32.640	18.4	99	0.00
70	C	Pentachlorophenol	40.000	41.693	-4.2	100	0.00
71		Phenanthrene	40.000	38.024	4.9	99	0.00
72		Anthracene	40.000	38.362	4.1	100	0.00
73		Carbazole	40.000	38.676	3.3	101	0.00
74		Di-n-butylphthalate	40.000	39.391	1.5	100	0.00
75	C	Fluoranthene	40.000	38.196	4.5	99	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	95	0.01
77		Benzidine	40.000	38.866	2.8	108	0.00
78		Pyrene	40.000	40.667	-1.7	98	0.00
79	S	Terphenyl-d14	80.000	80.797	-1.0	98	0.00
80		Butylbenzylphthalate	40.000	42.560	-6.4	96	0.00
81		Benzo(a)anthracene	40.000	39.327	1.7	97	0.01
82		3,3'-Dichlorobenzidine	40.000	39.793	0.5	98	0.01
83		Chrysene	40.000	39.569	1.1	96	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	42.213	-5.5	95	0.01
85	c	Di-n-octyl phthalate	40.000	40.448	-1.1	92	0.02
86	I	Perylene-d12	20.000	20.000	0.0	99	0.02
87		Indeno(1,2,3-cd)pyrene	40.000	41.371	-3.4	101	0.02
88		Benzo(b)fluoranthene	40.000	37.153	7.1	95	0.02
89		Benzo(k)fluoranthene	40.000	40.625	-1.6	101	0.02
90	C	Benzo(a)pyrene	40.000	39.337	1.7	98	0.02
91		Dibenzo(a,h)anthracene	40.000	41.871	-4.7	102	0.02
92		Benzo(g,h,i)perylene	40.000	40.635	-1.6	99	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: AECO02

Lab Code: CHEM Case No.: P4871 SAS No.: P4871 SDG No.: P4871

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------								
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = 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 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

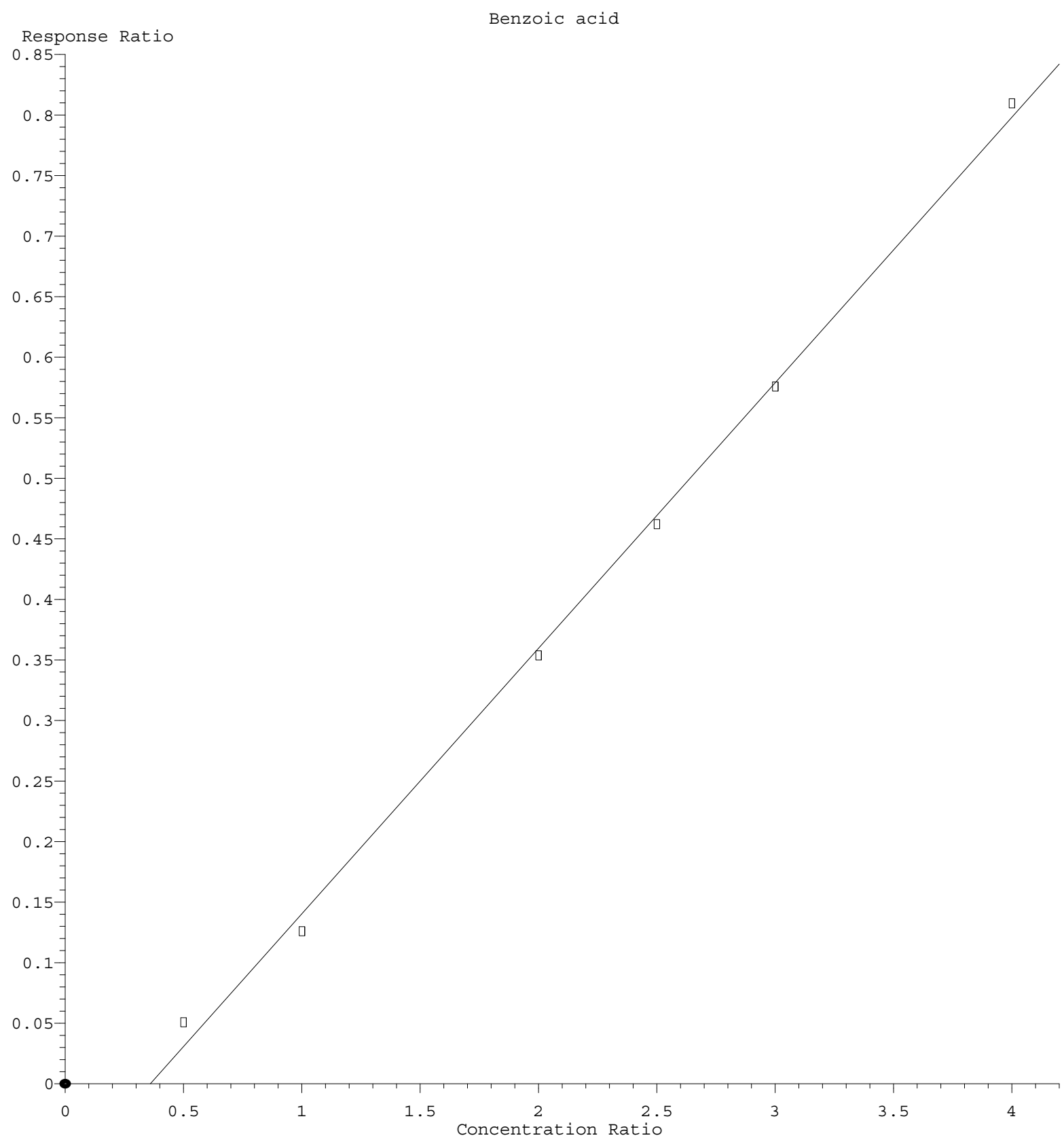
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

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

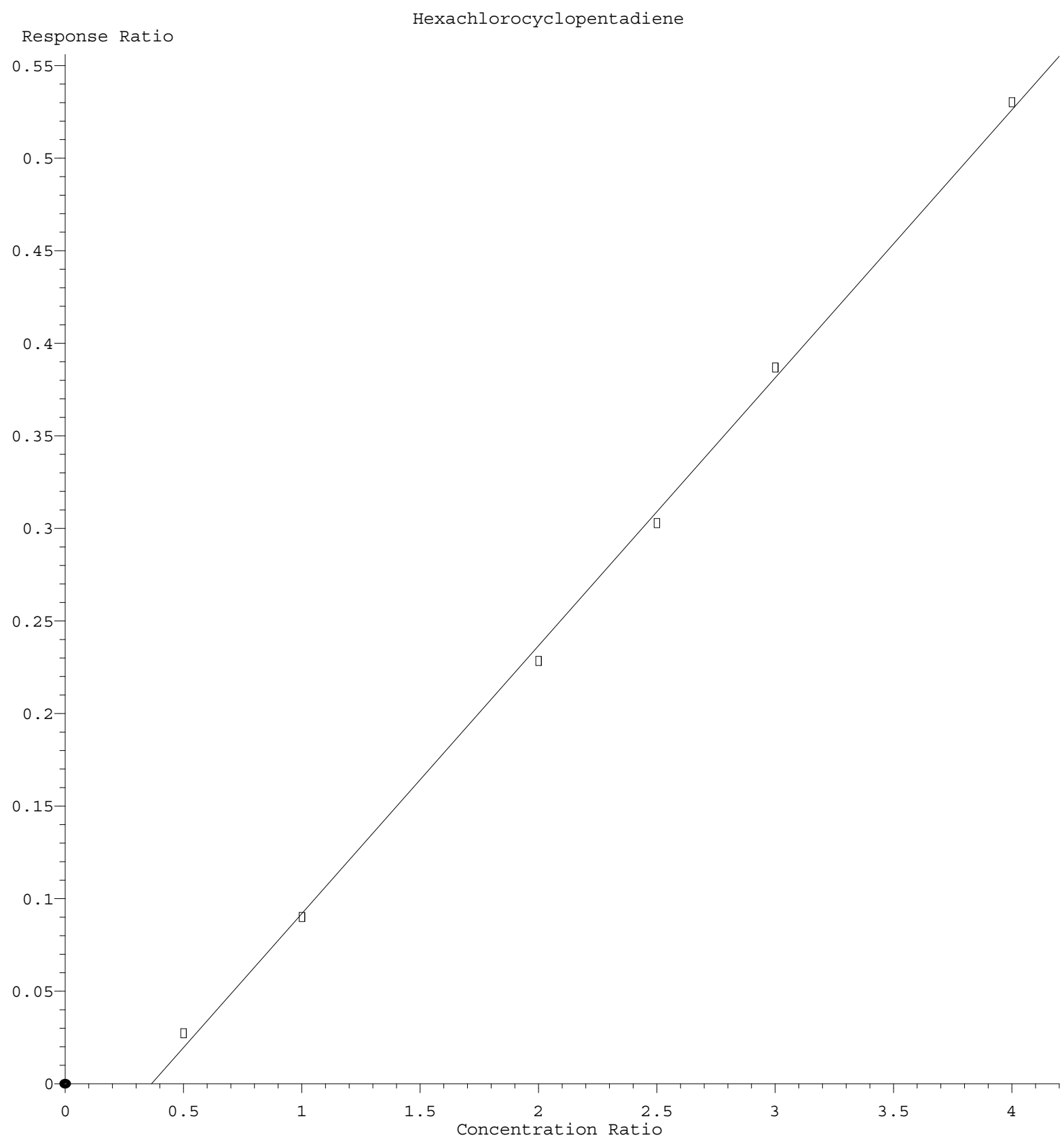
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

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

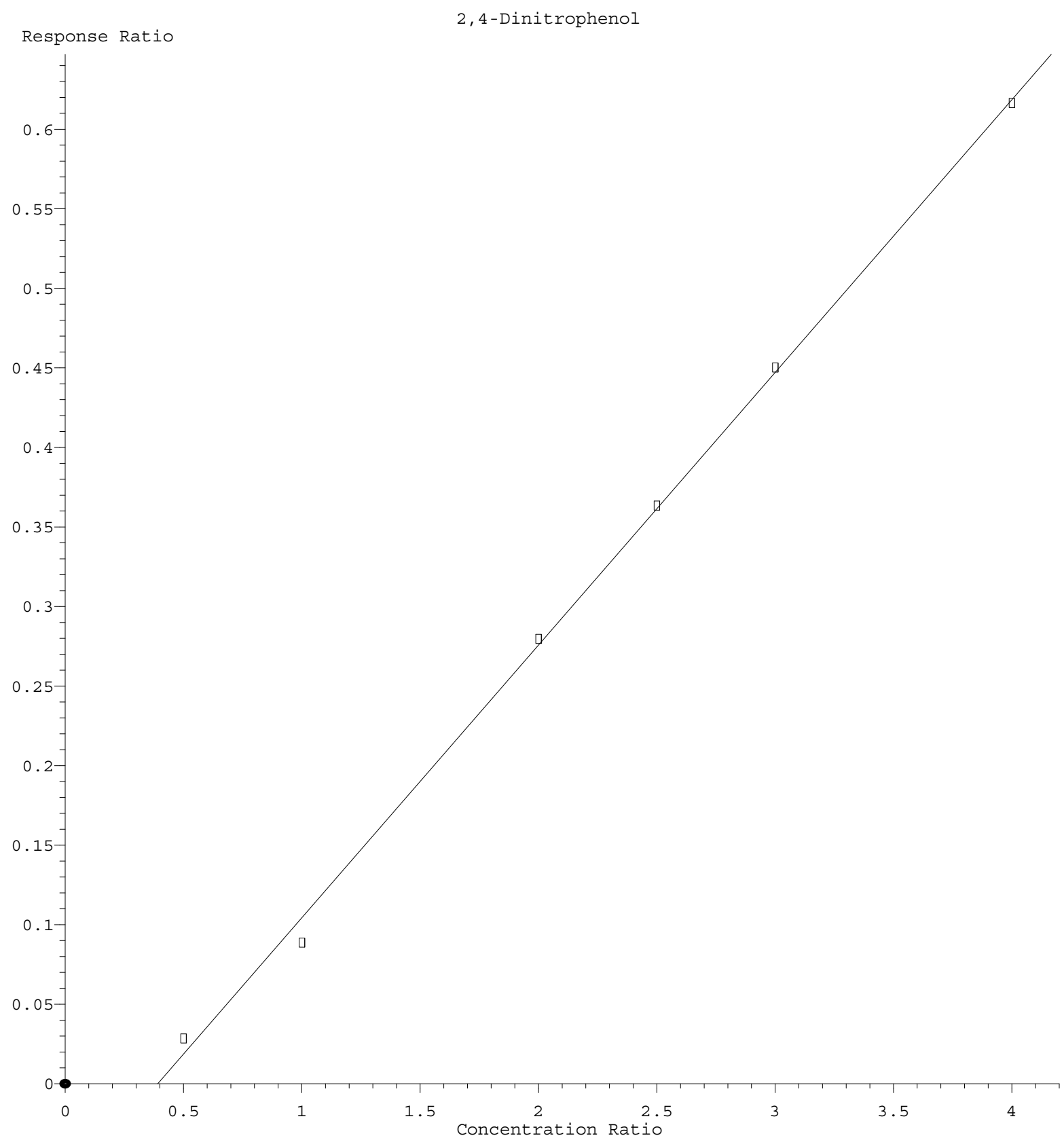
(#) = Out of Range



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

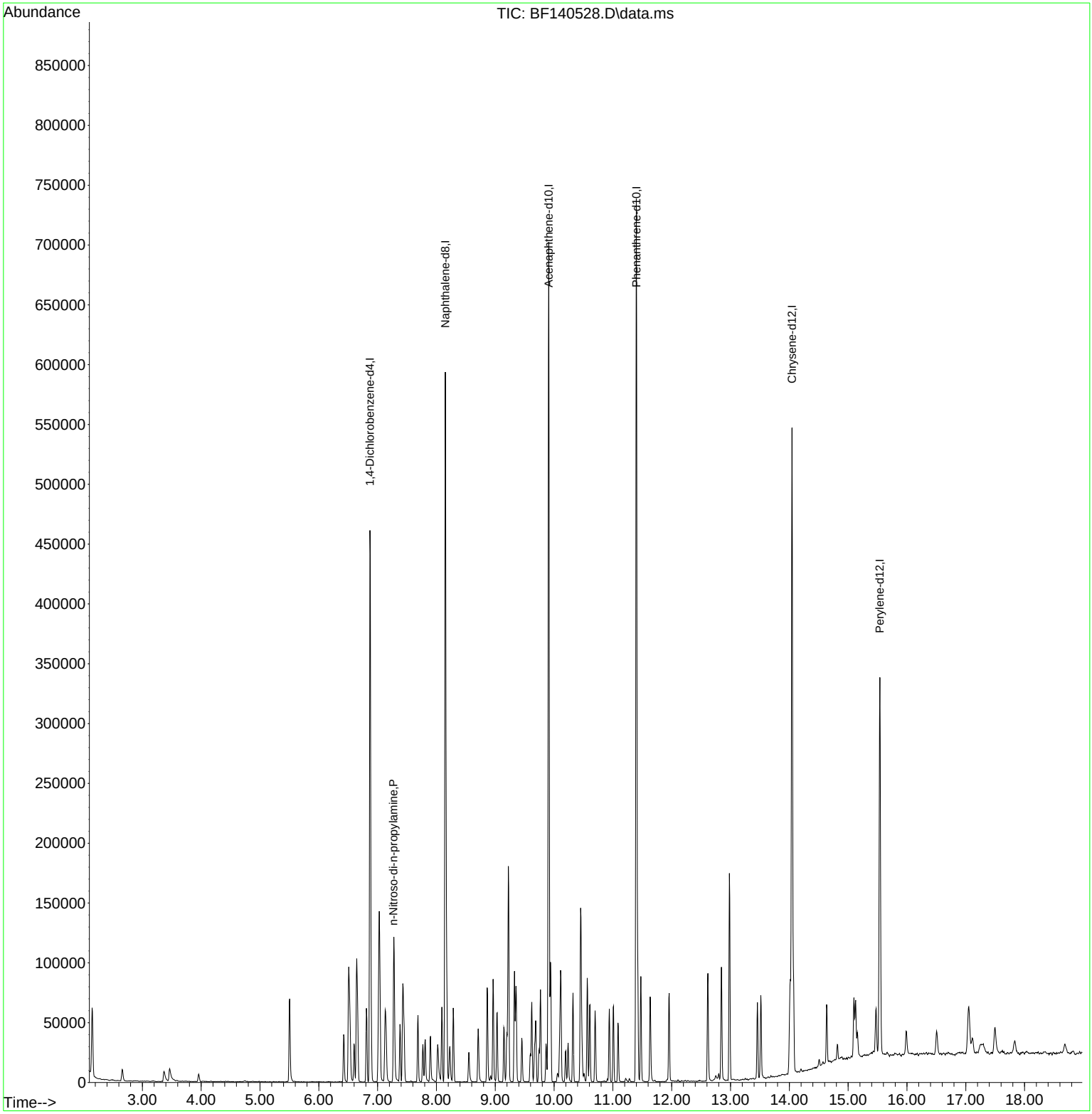
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

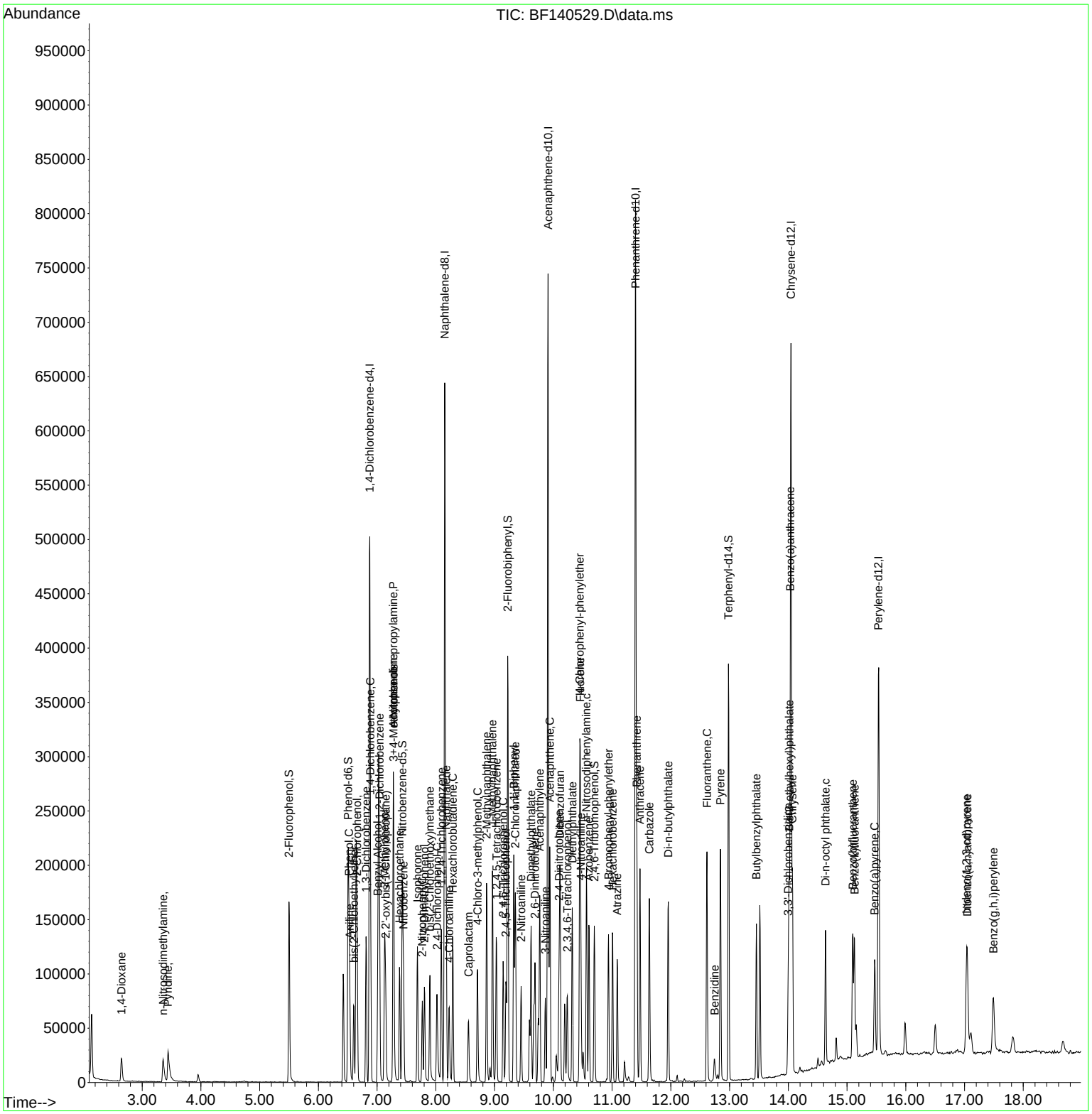
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Nitroaniline	9.451	65	20109	5.050	ng		99
49) Acenaphthylene	9.769	152	103605	5.527	ng		99
50) Dimethylphthalate	9.622	163	79770	5.523	ng		98
51) 2,6-Dinitrotoluene	9.687	165	17217	5.256	ng		99
52) Acenaphthene	9.939	154	64777	5.337	ng		97
53) 3-Nitroaniline	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 11/22/2024

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 11/22/2024

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

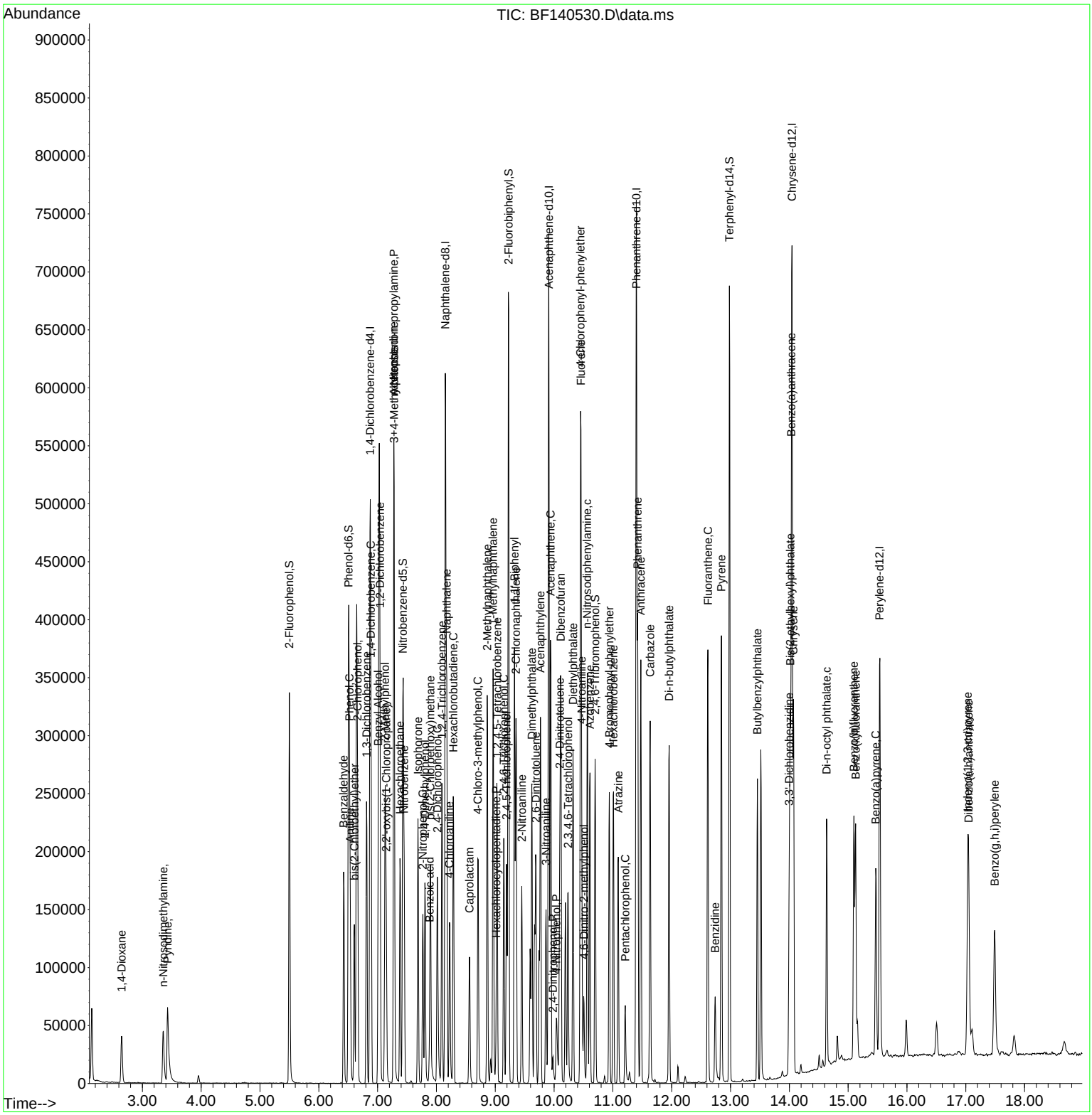
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140530.D
Acq On : 21 Nov 2024 12:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

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 11/22/2024



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 11/22/2024

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

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 11/22/2024

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

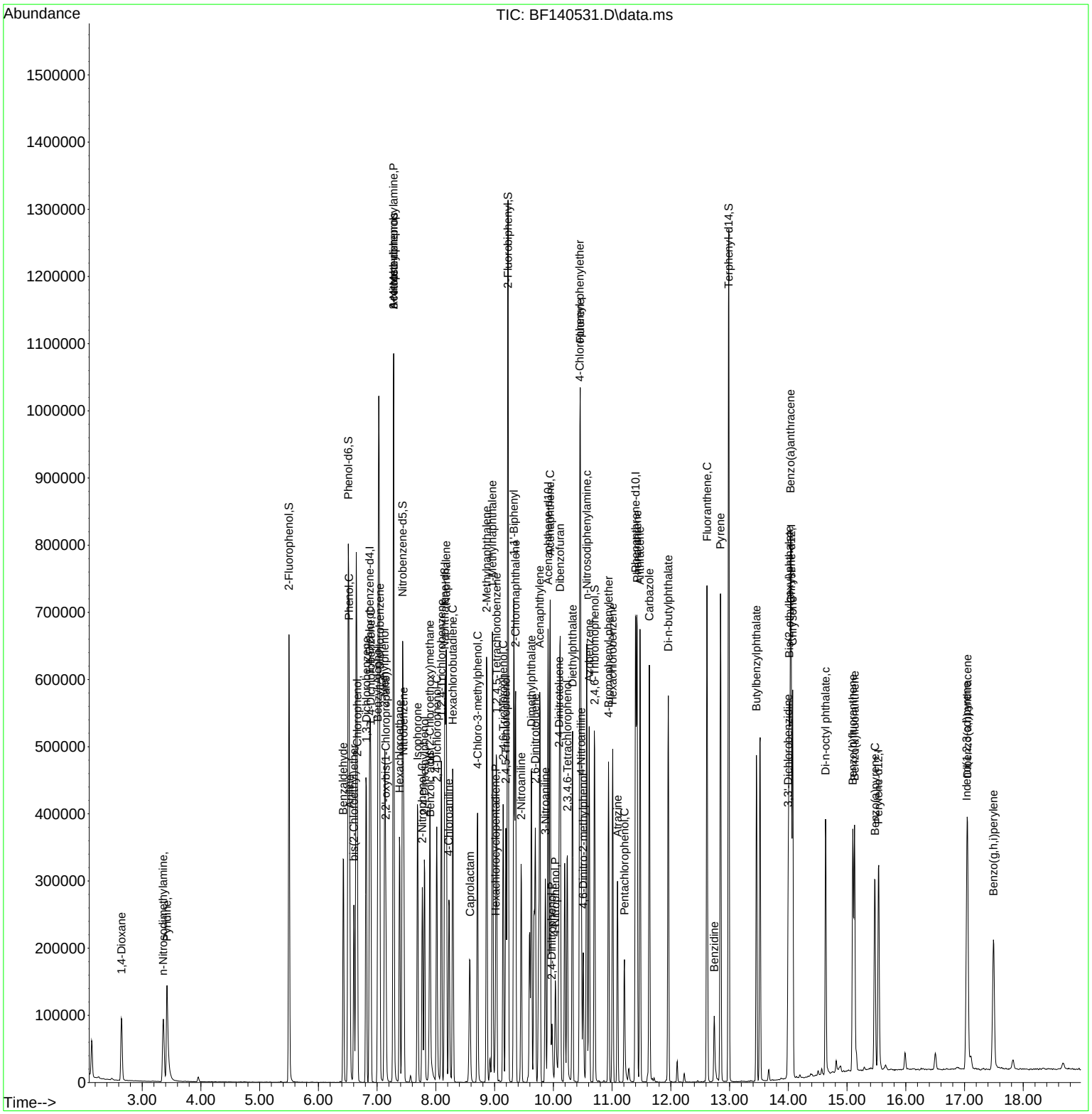
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140531.D
Acq On : 21 Nov 2024 12:32
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

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 11/22/2024



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 11/22/2024

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 11/22/2024

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

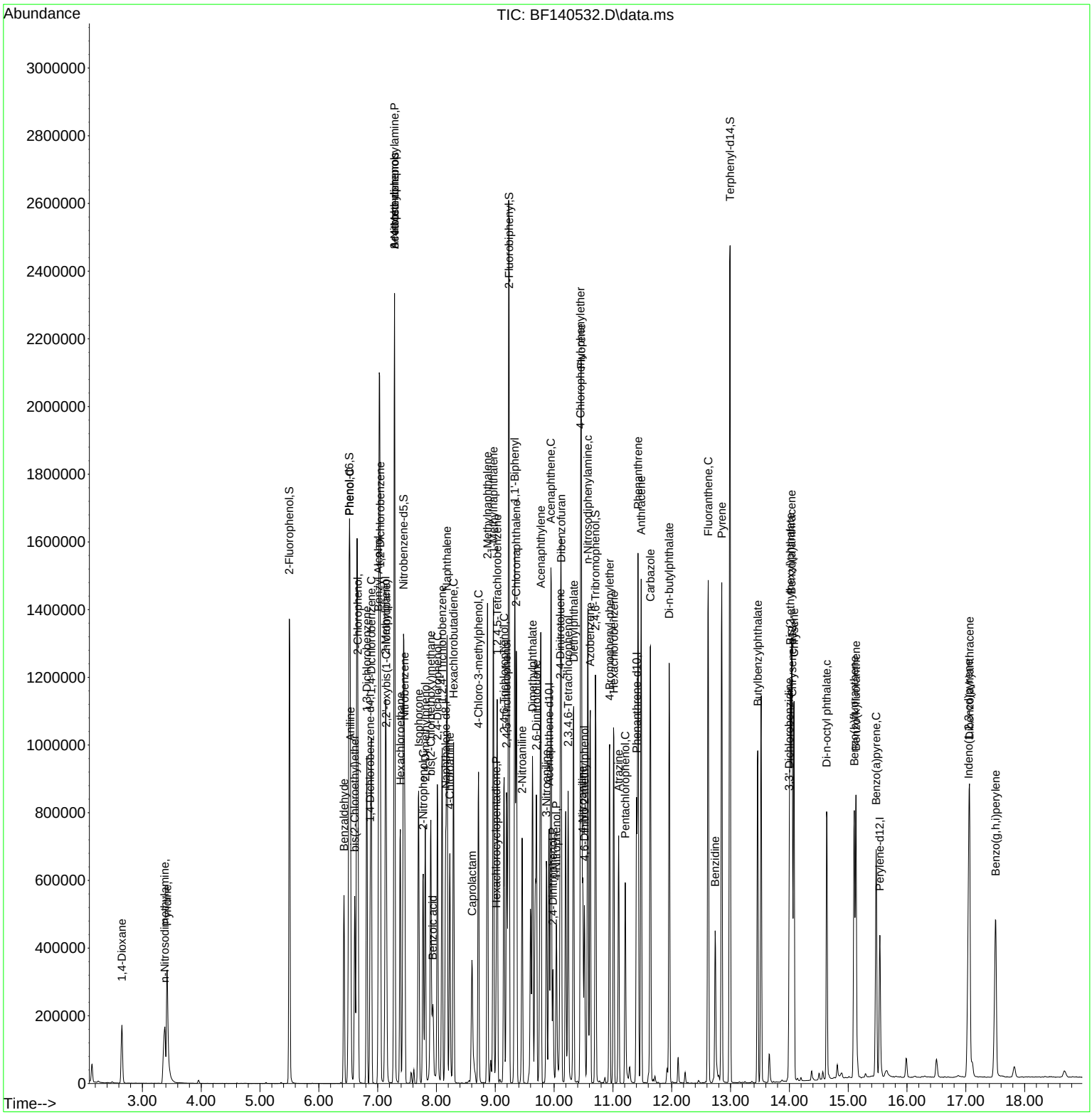
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140532.D
Acq On : 21 Nov 2024 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

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 11/22/2024



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

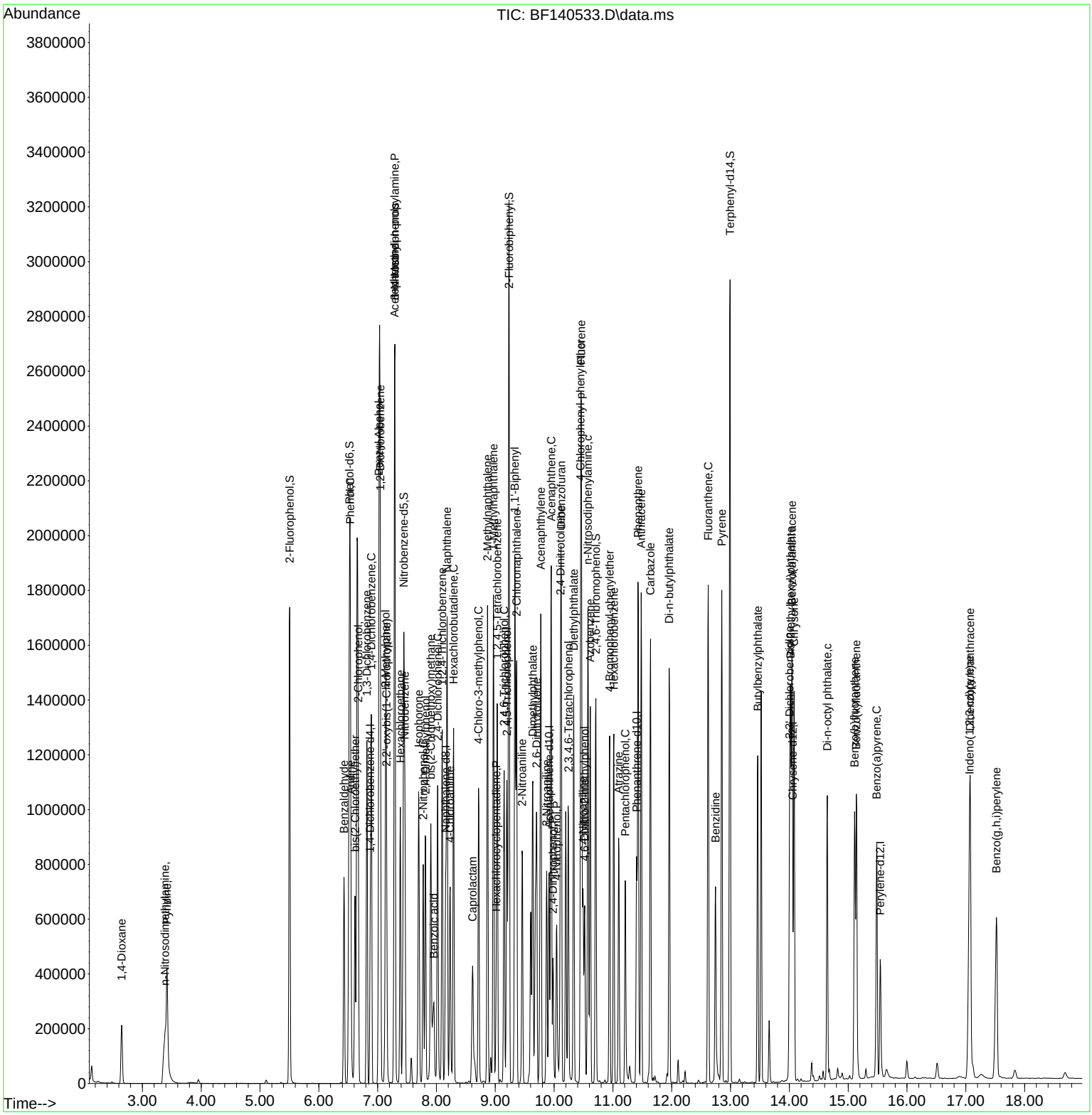
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	227840	48.866	ng	98
46) 1,1'-Biphenyl	9.333	154	834139	47.772	ng	99
47) 2-Chloronaphthalene	9.363	162	632459	47.803	ng	99
48) 2-Nitroaniline	9.457	65	212420	50.020	ng	98
49) Acenaphthylene	9.775	152	951784	47.612	ng	99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

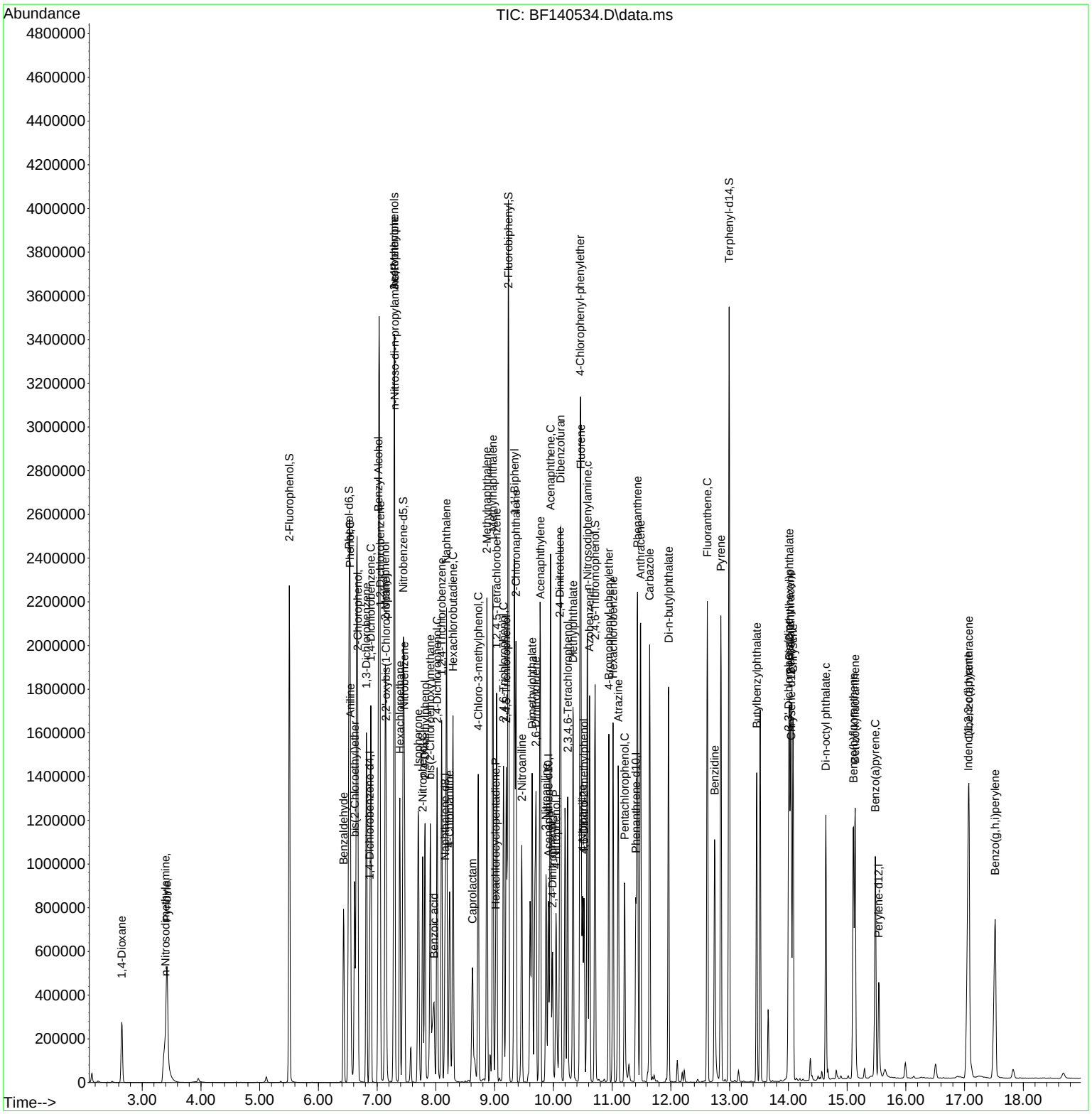
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	300029	59.694	ng	98
46) 1,1'-Biphenyl	9.339	154	1072474	56.978	ng	99
47) 2-Chloronaphthalene	9.363	162	819966	57.492	ng	99
48) 2-Nitroaniline	9.463	65	269813	58.938	ng	96
49) Acenaphthylene	9.780	152	1227568	56.965	ng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

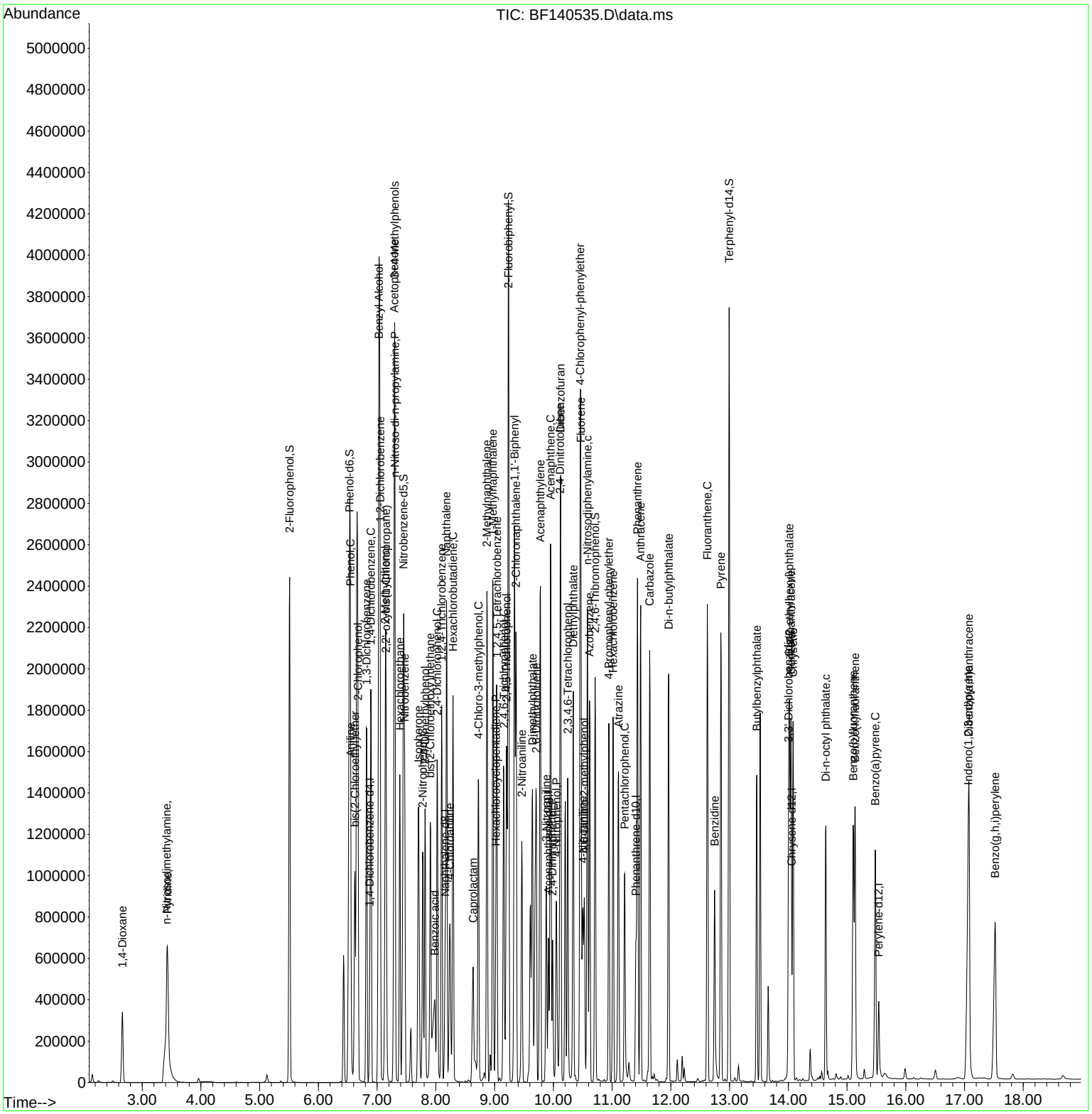
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 11/22/2024

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

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

Manual Integrations APPROVED

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

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

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

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

Instrument :
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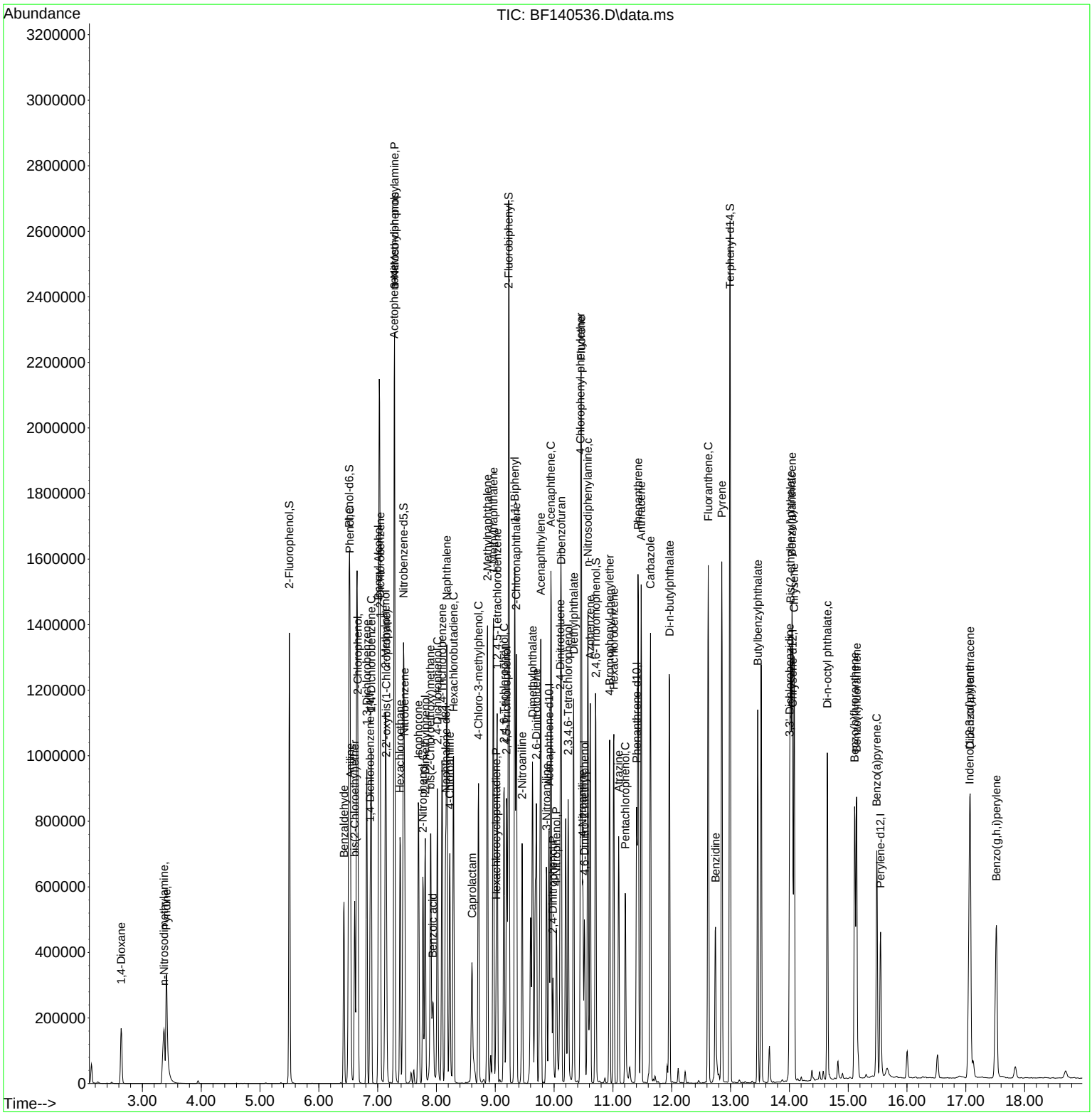
ClientSampleId :
ICVBF112124

Manual Integrations APPROVED

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



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
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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

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

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

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

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

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

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
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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
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
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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

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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)
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.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 16:14

Lab File ID: BF140456.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.283	1.283		0.0	
2-Fluorophenol	1.171	1.145		-2.2	
Phenol-d6	1.587	1.518		-4.3	
1,4-Dichlorobenzene	1.408	1.381		-1.9	20.0
2-Methylphenol	1.035	0.997		-3.7	
3+4-Methylphenols	1.295	1.232		-4.9	
Nitrobenzene-d5	0.384	0.371		-3.4	
Hexachloroethane	0.520	0.518		-0.4	
Nitrobenzene	0.400	0.389		-2.8	
Hexachlorobutadiene	0.199	0.198		-0.5	20.0
2,4,6-Trichlorophenol	0.363	0.357		-1.7	20.0
2-Fluorobiphenyl	1.244	1.247		0.2	
2,4,5-Trichlorophenol	0.397	0.402		1.3	
2,4-Dinitrotoluene	0.391	0.388		-0.8	
2,4,6-Tribromophenol	0.199	0.196		-1.5	
Hexachlorobenzene	0.225	0.232		3.1	
Pentachlorophenol	0.121	0.115		-5.0	20.0
Terphenyl-d14	1.152	1.275		10.7	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	136246	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	509583	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	277583	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	499315	20.000	ng		0.00
76) Chrysene-d12	14.045	240	237967	20.000	ng		0.00
86) Perylene-d12	15.533	264	262467	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.499	112	624243	78.228	ng		0.00
7) Phenol-d6	6.516	99	827312	76.523	ng		0.01
23) Nitrobenzene-d5	7.440	82	756781	77.378	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	217782	78.897	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1384472	80.178	ng		0.00
79) Terphenyl-d14	12.986	244	1213657	88.527	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.622	88	140046	39.377	ng		99
3) Pyridine	3.393	79	349628	39.987	ng		100
4) n-Nitrosodimethylamine	3.346	42	165340	37.415	ng		96
6) Aniline	6.540	93	355746	37.826	ng	#	79
8) 2-Chlorophenol	6.663	128	338750	39.519	ng		100
9) Benzaldehyde	6.428	77	237949	36.723	ng		98
10) Phenol	6.528	94	428199	37.557	ng		86
11) bis(2-Chloroethyl)ether	6.610	93	337557	39.074	ng		99
12) 1,3-Dichlorobenzene	6.816	146	372932	39.432	ng		99
13) 1,4-Dichlorobenzene	6.893	146	376322	39.242	ng		99
14) 1,2-Dichlorobenzene	7.045	146	353534	39.711	ng		99
15) Benzyl Alcohol	7.016	79	294681	37.832	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	445096	37.301	ng		78
17) 2-Methylphenol	7.134	107	271774	38.542	ng		96
18) Hexachloroethane	7.387	117	141103	39.800	ng		98
19) n-Nitroso-di-n-propyla...	7.287	70	240338	36.807	ng		100
20) 3+4-Methylphenols	7.287	107	335833	38.083	ng		93
22) Acetophenone	7.281	105	459088	38.736	ng		99
24) Nitrobenzene	7.457	77	396839	38.971	ng		100
25) Isophorone	7.692	82	655987	37.845	ng		99
26) 2-Nitrophenol	7.769	139	182046	40.286	ng		98
27) 2,4-Dimethylphenol	7.810	122	226104m	39.083	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	417918	39.320	ng		99
29) 2,4-Dichlorophenol	8.016	162	285306	39.904	ng		99
30) 1,2,4-Trichlorobenzene	8.098	180	314018	39.449	ng		100
31) Naphthalene	8.175	128	1018127	39.386	ng		100
32) Benzoic acid	7.928	122	194193	38.147	ng		96
33) 4-Chloroaniline	8.228	127	311777	34.681	ng		99
34) Hexachlorobutadiene	8.292	225	201342	39.699	ng		99
35) Caprolactam	8.592	113	89596	37.703	ng		95
36) 4-Chloro-3-methylphenol	8.710	107	307614	38.824	ng		99
37) 2-Methylnaphthalene	8.869	142	648814	39.143	ng		100
38) 1-Methylnaphthalene	8.969	142	628309	38.709	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	312136	40.663	ng		99
41) Hexachlorocyclopentadiene	9.016	237	72244	36.656	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	197955	39.296	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	2,4,5-Trichlorophenol	9.192	196	223021	40.493	ng	97
46)	1,1'-Biphenyl	9.334	154	812318	40.225	ng	100
47)	2-Chloronaphthalene	9.357	162	612381	39.809	ng	99
48)	2-Nitroaniline	9.457	65	194150	38.056	ng	97
49)	Acenaphthylene	9.775	152	930572	39.982	ng	99
50)	Dimethylphthalate	9.628	163	716361	39.593	ng	100
51)	2,6-Dinitrotoluene	9.698	165	165584	40.144	ng	95
52)	Acenaphthene	9.945	154	622768	39.616	ng	99
53)	3-Nitroaniline	9.869	138	161576	37.300	ng	100
54)	2,4-Dinitrophenol	9.975	184	77413	36.394	ng	97
55)	Dibenzofuran	10.116	168	889015	39.949	ng	99
56)	4-Nitrophenol	10.034	139	105471	33.380	ng	98
57)	2,4-Dinitrotoluene	10.098	165	215402	39.679	ng	98
58)	Fluorene	10.463	166	695165	39.543	ng	100
59)	2,3,4,6-Tetrachlorophenol	10.239	232	173966	40.004	ng	97
60)	Diethylphthalate	10.328	149	729600	39.436	ng	100
61)	4-Chlorophenyl-phenyle...	10.451	204	345527	39.811	ng	99
62)	4-Nitroaniline	10.481	138	158380	35.758	ng	96
63)	Azobenzene	10.610	77	704683	38.549	ng	99
65)	4,6-Dinitro-2-methylph...	10.510	198	112851	42.008	ng	98
66)	n-Nitrosodiphenylamine	10.569	169	591185	40.978	ng	99
67)	4-Bromophenyl-phenylether	10.939	248	208260	41.725	ng	99
68)	Hexachlorobenzene	11.010	284	231427	41.210	ng	97
69)	Atrazine	11.092	200	151187	34.638	ng	99
70)	Pentachlorophenol	11.210	266	115335	38.127	ng	98
71)	Phenanthrene	11.428	178	921638	39.293	ng	100
72)	Anthracene	11.475	178	907505	39.477	ng	99
73)	Carbazole	11.633	167	841479	37.072	ng	100
74)	Di-n-butylphthalate	11.957	149	1061556	38.966	ng	100
75)	Fluoranthene	12.616	202	931619	35.402	ng	100
77)	Benzidine	12.739	184	299390	32.780	ng	100
78)	Pyrene	12.845	202	912508	44.830	ng	100
80)	Butylbenzylphthalate	13.457	149	309015	39.519	ng	97
81)	Benzo(a)anthracene	14.033	228	610735	39.050	ng	99
82)	3,3'-Dichlorobenzidine	13.998	252	207285	41.698	ng	99
83)	Chrysene	14.069	228	574000	40.224	ng	99
84)	Bis(2-ethylhexyl)phtha...	14.016	149	387777	37.154	ng	99
85)	Di-n-octyl phthalate	14.633	149	576390	39.211	ng	99
87)	Indeno(1,2,3-cd)pyrene	17.039	276	705996	43.544	ng	100
88)	Benzo(b)fluoranthene	15.098	252	572592	33.350	ng	100
89)	Benzo(k)fluoranthene	15.127	252	557258	39.730	ng	99
90)	Benzo(a)pyrene	15.468	252	523093	39.233	ng	99
91)	Dibenzo(a,h)anthracene	17.051	278	589941	44.020	ng	99
92)	Benzo(g,h,i)perylene	17.492	276	593802	43.340	ng	98

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

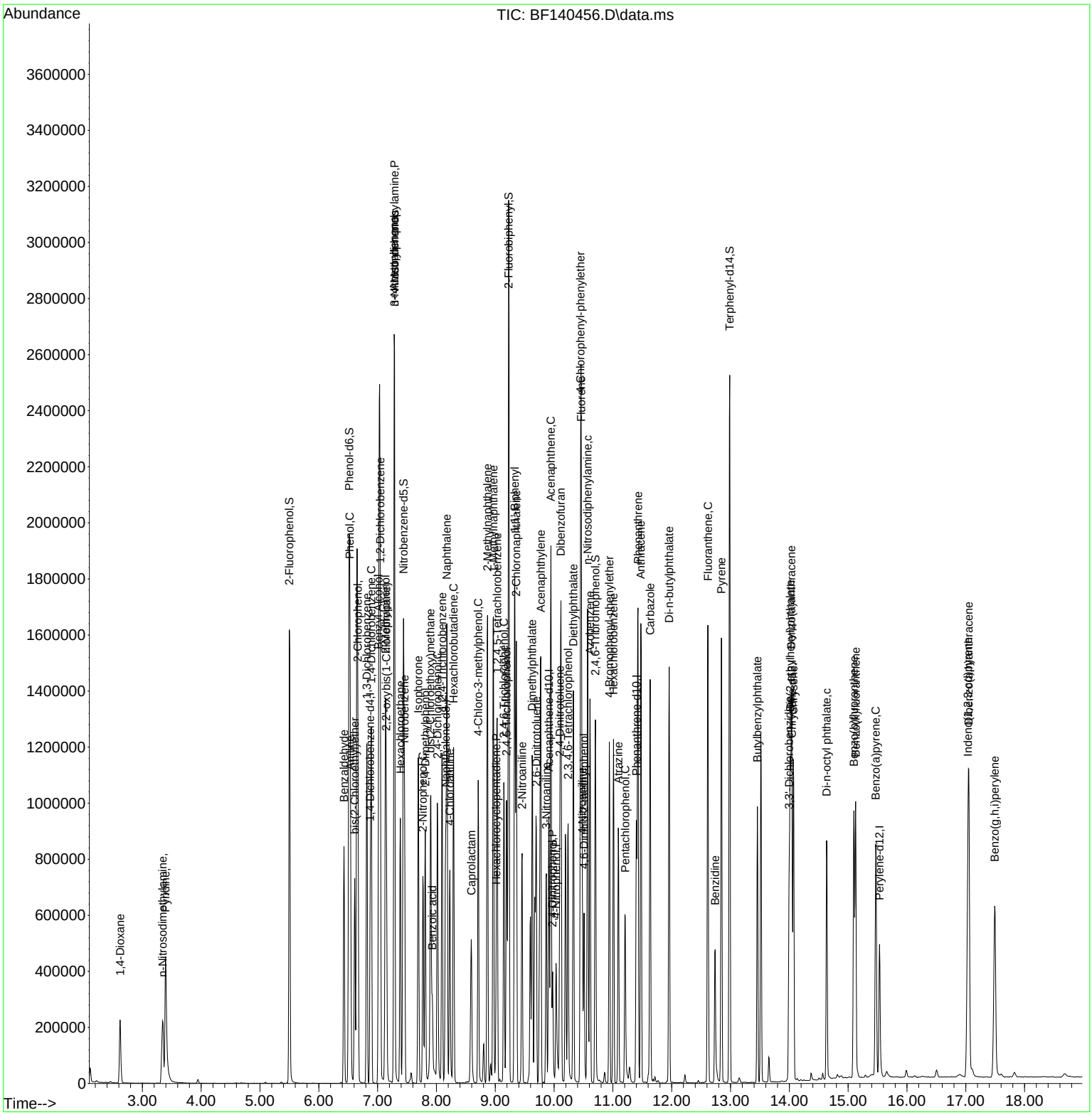
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



Sample Results: **BF140456.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		1,4-Dioxane	0.522	0.514	1.5	92	-0.01
3		Pyridine	1.283	1.283	0.0	90	-0.01
4		n-Nitrosodimethylamine	0.649	0.607	6.5	85	-0.01
5	S	2-Fluorophenol	1.171	1.145	2.2	92	0.00
6		Aniline	1.381	1.306	5.4	83	0.00
7	S	Phenol-d6	1.587	1.518	4.3	88	0.01
8		2-Chlorophenol	1.258	1.243	1.2	91	0.00
9		Benzaldehyde	0.951	0.873	8.2	91	0.00
10	C	Phenol	1.674	1.571	6.2	84	0.00
11		bis(2-Chloroethyl)ether	1.268	1.239	2.3	91	0.00
12		1,3-Dichlorobenzene	1.388	1.369	1.4	92	0.00
13	C	1,4-Dichlorobenzene	1.408	1.381	1.9	92	0.00
14		1,2-Dichlorobenzene	1.307	1.297	0.8	93	0.00
15		Benzyl Alcohol	1.143	1.081	5.4	83	0.00
16		2,2'-oxybis(1-Chloropropane	1.752	1.633	6.8	83	0.00
17		2-Methylphenol	1.035	0.997	3.7	87	0.00
18		Hexachloroethane	0.520	0.518	0.4	93	0.00
19	P	n-Nitroso-di-n-propylamine	0.959	0.882	8.0	83	0.00
20		3+4-Methylphenols	1.294	1.232	4.8	84	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00
22		Acetophenone	0.465	0.450	3.2	87	0.00
23	S	Nitrobenzene-d5	0.384	0.371	3.4	86	0.00
24		Nitrobenzene	0.400	0.389	2.8	86	0.00
25		Isophorone	0.680	0.644	5.3	83	0.00
26	C	2-Nitrophenol	0.177	0.179	-1.1	86	0.00
27		2,4-Dimethylphenol	0.227	0.222	2.2	86	0.00
28		bis(2-Chloroethoxy)methane	0.417	0.410	1.7	87	0.00
29	C	2,4-Dichlorophenol	0.281	0.280	0.4	88	0.00
30		1,2,4-Trichlorobenzene	0.312	0.308	1.3	88	0.00
31		Naphthalene	1.015	0.999	1.6	88	0.00
32		Benzoic acid	0.200	0.191	4.5	78	0.00
33		4-Chloroaniline	0.353	0.306	13.3	78	0.00
34	C	Hexachlorobutadiene	0.199	0.198	0.5	88	0.00
35		Caprolactam	0.093	0.088	5.4	83	0.00
36	C	4-Chloro-3-methylphenol	0.311	0.302	2.9	84	0.00
37		2-Methylnaphthalene	0.651	0.637	2.2	87	0.00
38		1-Methylnaphthalene	0.637	0.616	3.3	85	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.553	0.562	-1.6	88	0.00
41	P	Hexachlorocyclopentadiene	0.142	0.130	8.5	78	0.00
42	S	2,4,6-Tribromophenol	0.199	0.196	1.5	85	0.00
43	C	2,4,6-Trichlorophenol	0.363	0.357	1.7	82	0.00
44		2,4,5-Trichlorophenol	0.397	0.402	-1.3	86	0.00
45	S	2-Fluorobiphenyl	1.244	1.247	-0.2	88	0.00
46		1,1'-Biphenyl	1.455	1.463	-0.5	86	0.00
47		2-Chloronaphthalene	1.108	1.103	0.5	86	0.00

Sample Results: **BF140456.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	0.368	0.350	4.9	80	0.00
49		Acenaphthylene	1.677	1.676	0.1	85	0.00
50		Dimethylphthalate	1.304	1.290	1.1	85	0.00
51		2,6-Dinitrotoluene	0.297	0.298	-0.3	83	0.00
52	C	Acenaphthene	1.133	1.122	1.0	85	0.00
53		3-Nitroaniline	0.312	0.291	6.7	78	0.00
54	P	2,4-Dinitrophenol	0.153	0.139	9.2	79	0.00
55		Dibenzofuran	1.603	1.601	0.1	85	0.00
56	P	4-Nitrophenol	0.228	0.190	16.7	67	0.01
57		2,4-Dinitrotoluene	0.391	0.388	0.8	83	0.00
58		Fluorene	1.267	1.252	1.2	86	0.00
59		2,3,4,6-Tetrachlorophenol	0.313	0.313	0.0	82	0.00
60		Diethylphthalate	1.333	1.314	1.4	85	0.00
61		4-Chlorophenyl-phenylether	0.625	0.622	0.5	86	0.00
62		4-Nitroaniline	0.319	0.285	10.7	74	0.00
63		Azobenzene	1.317	1.269	3.6	81	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00
65		4,6-Dinitro-2-methylphenol	0.108	0.113	-4.6	83	0.00
66	c	n-Nitrosodiphenylamine	0.578	0.592	-2.4	84	0.00
67		4-Bromophenyl-phenylether	0.200	0.209	-4.5	85	0.00
68		Hexachlorobenzene	0.225	0.232	-3.1	85	0.00
69		Atrazine	0.175	0.151	13.7	83	0.00
70	C	Pentachlorophenol	0.121	0.115	5.0	72	0.00
71		Phenanthrene	0.940	0.923	1.8	81	0.00
72		Anthracene	0.921	0.909	1.3	81	0.00
73		Carbazole	0.909	0.843	7.3	76	0.00
74		Di-n-butylphthalate	1.091	1.063	2.6	79	0.00
75	C	Fluoranthene	1.054	0.933	11.5	73	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	62	0.00
77		Benzidine	0.768	0.629	18.1	59	0.00
78		Pyrene	1.711	1.917	-12.0	70	0.00
79	S	Terphenyl-d14	1.152	1.275	-10.7	70	0.00
80		Butylbenzylphthalate	0.657	0.649	1.2	58	0.00
81		Benzo(a)anthracene	1.314	1.283	2.4	63	0.00
82		3,3'-Dichlorobenzidine	0.418	0.436	-4.3	67	0.00
83		Chrysene	1.199	1.206	-0.6	64	-0.01
84		Bis(2-ethylhexyl)phthalate	0.877	0.815	7.1	54	0.00
85	c	Di-n-octyl phthalate	1.235	1.211	1.9	58	-0.03
86	I	Perylene-d12	1.000	1.000	0.0	81	-0.02
87		Indeno(1,2,3-cd)pyrene	1.235	1.345	-8.9	87	-0.02
88		Benzo(b)fluoranthene	1.308	1.091	16.6	70	-0.02
89		Benzo(k)fluoranthene	1.069	1.062	0.7	82	-0.02
90	C	Benzo(a)pyrene	1.016	0.996	2.0	81	-0.02
91		Dibenzo(a,h)anthracene	1.021	1.124	-10.1	88	-0.02
92		Benzo(g,h,i)perylene	1.044	1.131	-8.3	87	-0.02

Sample Results: **BF140456.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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: **BF140456.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	93	0.00
2		1,4-Dioxane	40.000	39.377	1.6	92	-0.01
3		Pyridine	40.000	39.987	0.0	90	-0.01
4		n-Nitrosodimethylamine	40.000	37.415	6.5	85	-0.01
5	S	2-Fluorophenol	80.000	78.228	2.2	92	0.00
6		Aniline	40.000	37.826	5.4	83	0.00
7	S	Phenol-d6	80.000	76.523	4.3	88	0.01
8		2-Chlorophenol	40.000	39.519	1.2	91	0.00
9		Benzaldehyde	40.000	36.723	8.2	91	0.00
10	C	Phenol	40.000	37.557	6.1	84	0.00
11		bis(2-Chloroethyl)ether	40.000	39.074	2.3	91	0.00
12		1,3-Dichlorobenzene	40.000	39.432	1.4	92	0.00
13	C	1,4-Dichlorobenzene	40.000	39.242	1.9	92	0.00
14		1,2-Dichlorobenzene	40.000	39.711	0.7	93	0.00
15		Benzyl Alcohol	40.000	37.832	5.4	83	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.301	6.7	83	0.00
17		2-Methylphenol	40.000	38.542	3.6	87	0.00
18		Hexachloroethane	40.000	39.800	0.5	93	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.807	8.0	83	0.00
20		3+4-Methylphenols	40.000	38.083	4.8	84	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	87	0.00
22		Acetophenone	40.000	38.736	3.2	87	0.00
23	S	Nitrobenzene-d5	80.000	77.378	3.3	86	0.00
24		Nitrobenzene	40.000	38.971	2.6	86	0.00
25		Isophorone	40.000	37.845	5.4	83	0.00
26	C	2-Nitrophenol	40.000	40.286	-0.7	86	0.00
27		2,4-Dimethylphenol	40.000	39.083	2.3	86	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.320	1.7	87	0.00
29	C	2,4-Dichlorophenol	40.000	39.904	0.2	88	0.00
30		1,2,4-Trichlorobenzene	40.000	39.449	1.4	88	0.00
31		Naphthalene	40.000	39.386	1.5	88	0.00
32		Benzoic acid	40.000	38.147	4.6	78	0.00
33		4-Chloroaniline	40.000	34.681	13.3	78	0.00
34	C	Hexachlorobutadiene	40.000	39.699	0.8	88	0.00
35		Caprolactam	40.000	37.703	5.7	83	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.824	2.9	84	0.00
37		2-Methylnaphthalene	40.000	39.143	2.1	87	0.00
38		1-Methylnaphthalene	40.000	38.709	3.2	85	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	83	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.663	-1.7	88	0.00
41	P	Hexachlorocyclopentadiene	40.000	36.656	8.4	78	0.00
42	S	2,4,6-Tribromophenol	80.000	78.897	1.4	85	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.296	1.8	82	0.00
44		2,4,5-Trichlorophenol	40.000	40.493	-1.2	86	0.00
45	S	2-Fluorobiphenyl	80.000	80.178	-0.2	88	0.00
46		1,1'-Biphenyl	40.000	40.225	-0.6	86	0.00
47		2-Chloronaphthalene	40.000	39.809	0.5	86	0.00

Sample Results: **BF140456.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	38.056	4.9	80	0.00
49		Acenaphthylene	40.000	39.982	0.0	85	0.00
50		Dimethylphthalate	40.000	39.593	1.0	85	0.00
51		2,6-Dinitrotoluene	40.000	40.144	-0.4	83	0.00
52	C	Acenaphthene	40.000	39.616	1.0	85	0.00
53		3-Nitroaniline	40.000	37.300	6.8	78	0.00
54	P	2,4-Dinitrophenol	40.000	36.394	9.0	79	0.00
55		Dibenzofuran	40.000	39.949	0.1	85	0.00
56	P	4-Nitrophenol	40.000	33.380	16.5	67	0.01
57		2,4-Dinitrotoluene	40.000	39.679	0.8	83	0.00
58		Fluorene	40.000	39.543	1.1	86	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.004	-0.0	82	0.00
60		Diethylphthalate	40.000	39.436	1.4	85	0.00
61		4-Chlorophenyl-phenylether	40.000	39.811	0.5	86	0.00
62		4-Nitroaniline	40.000	35.758	10.6	74	0.00
63		Azobenzene	40.000	38.549	3.6	81	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	79	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.008	-5.0	83	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.978	-2.4	84	0.00
67		4-Bromophenyl-phenylether	40.000	41.725	-4.3	85	0.00
68		Hexachlorobenzene	40.000	41.210	-3.0	85	0.00
69		Atrazine	40.000	34.638	13.4	83	0.00
70	C	Pentachlorophenol	40.000	38.127	4.7	72	0.00
71		Phenanthrene	40.000	39.293	1.8	81	0.00
72		Anthracene	40.000	39.477	1.3	81	0.00
73		Carbazole	40.000	37.072	7.3	76	0.00
74		Di-n-butylphthalate	40.000	38.966	2.6	79	0.00
75	C	Fluoranthene	40.000	35.402	11.5	73	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	62	0.00
77		Benzidine	40.000	32.780	18.0	59	0.00
78		Pyrene	40.000	44.830	-12.1	70	0.00
79	S	Terphenyl-d14	80.000	88.527	-10.7	70	0.00
80		Butylbenzylphthalate	40.000	39.519	1.2	58	0.00
81		Benzo(a)anthracene	40.000	39.050	2.4	63	0.00
82		3,3'-Dichlorobenzidine	40.000	41.698	-4.2	67	0.00
83		Chrysene	40.000	40.224	-0.6	64	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	37.154	7.1	54	0.00
85	c	Di-n-octyl phthalate	40.000	39.211	2.0	58	-0.03
86	I	Perylene-d12	20.000	20.000	0.0	81	-0.02
87		Indeno(1,2,3-cd)pyrene	40.000	43.544	-8.9	87	-0.02
88		Benzo(b)fluoranthene	40.000	33.350	16.6	70	-0.02
89		Benzo(k)fluoranthene	40.000	39.730	0.7	82	-0.02
90	C	Benzo(a)pyrene	40.000	39.233	1.9	81	-0.02
91		Dibenzo(a,h)anthracene	40.000	44.020	-10.1	88	-0.02
92		Benzo(g,h,i)perylene	40.000	43.340	-8.4	87	-0.02

Sample Results: **BF140456.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140456.D
Acq On : 18 Nov 2024 16:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 16:54:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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.: P4871 SAS No.: P4871 SDG No.: P4871

Instrument ID: BNA_F Calibration Date/Time: 11/19/2024 10:34

Lab File ID: BF140463.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.283	1.308		1.9	
2-Fluorophenol	1.171	1.209		3.2	
Phenol-d6	1.587	1.607		1.3	
1,4-Dichlorobenzene	1.408	1.437		2.1	20.0
2-Methylphenol	1.035	1.061		2.5	
3+4-Methylphenols	1.295	1.288		-0.5	
Nitrobenzene-d5	0.384	0.393		2.3	
Hexachloroethane	0.520	0.523		0.6	
Nitrobenzene	0.400	0.412		3.0	
Hexachlorobutadiene	0.199	0.203		2.0	20.0
2,4,6-Trichlorophenol	0.363	0.376		3.6	20.0
2-Fluorobiphenyl	1.244	1.257		1.0	
2,4,5-Trichlorophenol	0.397	0.420		5.8	
2,4-Dinitrotoluene	0.391	0.413		5.6	
2,4,6-Tribromophenol	0.199	0.209		5.0	
Hexachlorobenzene	0.225	0.231		2.7	
Pentachlorophenol	0.121	0.124		2.5	20.0
Terphenyl-d14	1.152	1.112		-3.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	137275	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	502770	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	278131	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	524892	20.000	ng		0.00
76) Chrysene-d12	14.069	240	344697	20.000	ng		0.02
86) Perylene-d12	15.592	264	292973	20.000	ng		0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.499	112	663687	82.547	ng		0.00
7) Phenol-d6	6.516	99	882242	80.992	ng		0.01
23) Nitrobenzene-d5	7.440	82	789635	81.831	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	232026	83.891	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1398671	80.841	ng		0.00
79) Terphenyl-d14	12.986	244	1533801	77.238	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.628	88	152430	42.537	ng		98
3) Pyridine	3.399	79	359179	40.771	ng		99
4) n-Nitrosodimethylamine	3.352	42	178202	40.024	ng		99
6) Aniline	6.540	93	306329	32.327	ng	#	71
8) 2-Chlorophenol	6.663	128	355312	41.140	ng		99
9) Benzaldehyde	6.428	77	379695	58.159	ng		98
10) Phenol	6.528	94	456762	39.761	ng		92
11) bis(2-Chloroethyl)ether	6.610	93	360291	41.393	ng		99
12) 1,3-Dichlorobenzene	6.816	146	390276	40.956	ng		99
13) 1,4-Dichlorobenzene	6.893	146	394580	40.837	ng		99
14) 1,2-Dichlorobenzene	7.045	146	367478	40.968	ng		99
15) Benzyl Alcohol	7.016	79	304617	38.814	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	446921	37.173	ng		74
17) 2-Methylphenol	7.134	107	291201	40.987	ng		95
18) Hexachloroethane	7.381	117	143667	40.220	ng		97
19) n-Nitroso-di-n-propyla...	7.287	70	248549	37.779	ng		98
20) 3+4-Methylphenols	7.287	107	353697	39.808	ng		98
22) Acetophenone	7.281	105	481461	41.174	ng		98
24) Nitrobenzene	7.457	77	414561	41.263	ng		99
25) Isophorone	7.693	82	674821	39.459	ng		99
26) 2-Nitrophenol	7.769	139	189812	42.574	ng		99
27) 2,4-Dimethylphenol	7.810	122	238623m	41.806	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	424967	40.525	ng		99
29) 2,4-Dichlorophenol	8.016	162	296033	41.966	ng		99
30) 1,2,4-Trichlorobenzene	8.092	180	324154	41.274	ng		99
31) Naphthalene	8.175	128	1061104	41.604	ng		100
32) Benzoic acid	7.928	122	207129	41.240	ng		97
33) 4-Chloroaniline	8.228	127	318018	35.854	ng		99
34) Hexachlorobutadiene	8.292	225	203622	40.692	ng		99
35) Caprolactam	8.592	113	97929	41.768	ng		95
36) 4-Chloro-3-methylphenol	8.710	107	322814	41.294	ng		99
37) 2-Methylnaphthalene	8.863	142	668387	40.870	ng		99
38) 1-Methylnaphthalene	8.963	142	651311	40.670	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	316136	41.103	ng		100
41) Hexachlorocyclopentadiene	9.016	237	70522	35.712	ng		99
43) 2,4,6-Trichlorophenol	9.145	196	209058	41.418	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

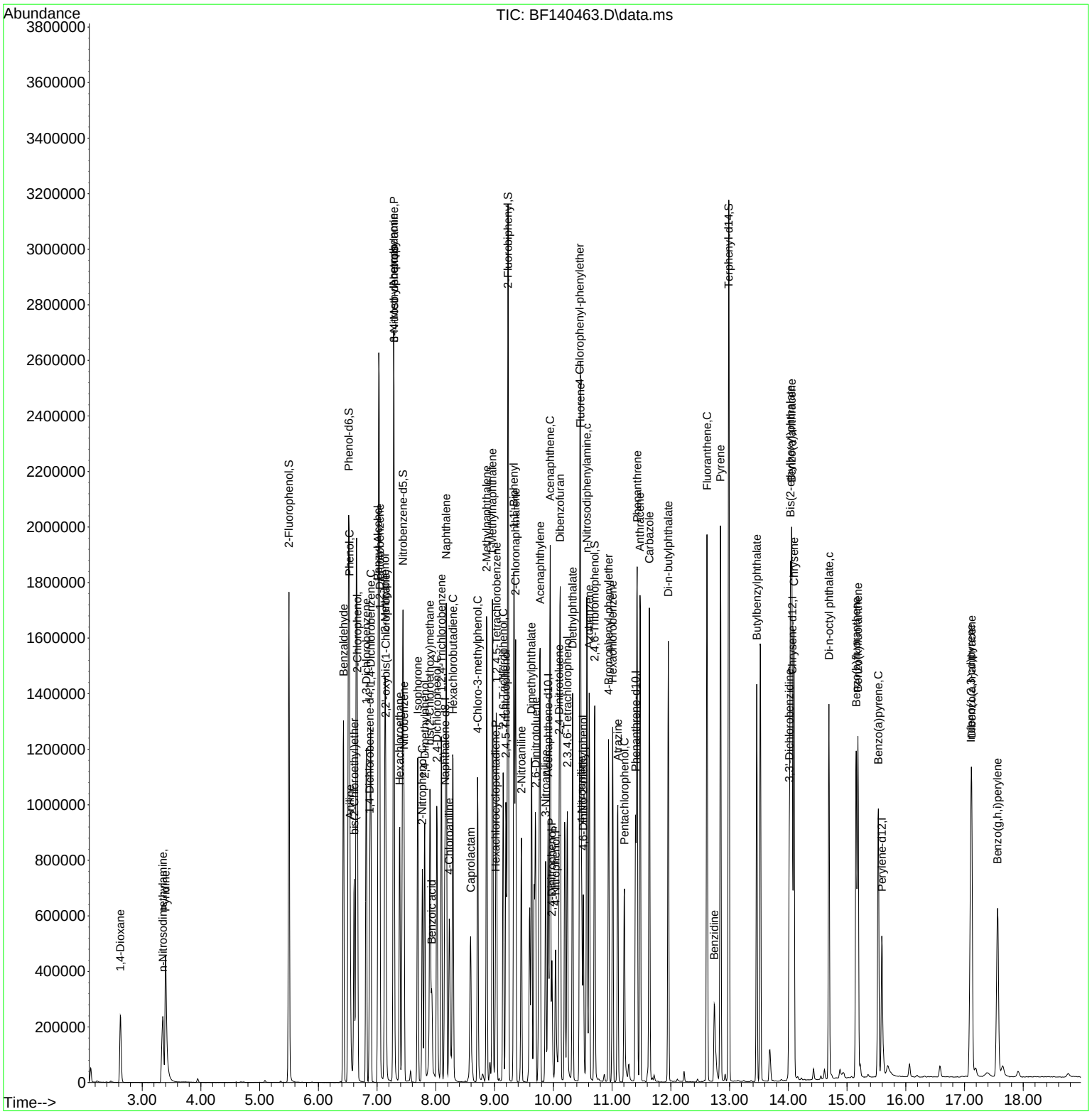
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	233420	42.298	ng	98
46) 1,1'-Biphenyl	9.328	154	828742	40.958	ng	100
47) 2-Chloronaphthalene	9.357	162	628499	40.776	ng	99
48) 2-Nitroaniline	9.457	65	211034	41.284	ng	99
49) Acenaphthylene	9.775	152	976764	41.884	ng	99
50) Dimethylphthalate	9.628	163	728603	40.190	ng	100
51) 2,6-Dinitrotoluene	9.698	165	173335	41.940	ng	96
52) Acenaphthene	9.945	154	653976	41.519	ng	99
53) 3-Nitroaniline	9.869	138	179320	41.315	ng	100
54) 2,4-Dinitrophenol	9.975	184	87533	41.071	ng	99
55) Dibenzofuran	10.116	168	923161	41.402	ng	99
56) 4-Nitrophenol	10.039	139	127604	40.306	ng	96
57) 2,4-Dinitrotoluene	10.098	165	229473	42.188	ng	99
58) Fluorene	10.463	166	719198	40.829	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	185022	42.462	ng	97
60) Diethylphthalate	10.328	149	731254	39.447	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	348055	40.023	ng	98
62) 4-Nitroaniline	10.481	138	181282	40.848	ng	98
63) Azobenzene	10.610	77	725554	39.612	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	122672	43.438	ng	99
66) n-Nitrosodiphenylamine	10.569	169	617738	40.732	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	213790	40.746	ng	100
68) Hexachlorobenzene	11.010	284	242463	41.071	ng	98
69) Atrazine	11.098	200	172031	37.493	ng	98
70) Pentachlorophenol	11.210	266	130516	41.043	ng	99
71) Phenanthrene	11.428	178	993168	40.279	ng	100
72) Anthracene	11.475	178	987613	40.869	ng	99
73) Carbazole	11.633	167	986550	41.346	ng	100
74) Di-n-butylphthalate	11.957	149	1126435	39.333	ng	100
75) Fluoranthene	12.616	202	1134677	41.018	ng	100
77) Benzidine	12.739	184	245364	18.546	ng	99
78) Pyrene	12.845	202	1164175	39.484	ng	100
80) Butylbenzylphthalate	13.463	149	461408	40.737	ng	97
81) Benzo(a)anthracene	14.057	228	921068	40.657	ng	100
82) 3,3'-Dichlorobenzidine	14.016	252	269822	37.472	ng	99
83) Chrysene	14.098	228	844108	40.837	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	618382	40.903	ng	99
85) Di-n-octyl phthalate	14.692	149	917056	43.070	ng	99
87) Indeno(1,2,3-cd)pyrene	17.110	276	708078	39.125	ng	99
88) Benzo(b)fluoranthene	15.157	252	731617	38.175	ng	99
89) Benzo(k)fluoranthene	15.186	252	699688	44.690	ng	99
90) Benzo(a)pyrene	15.533	252	615860	41.381	ng	99
91) Dibenzo(a,h)anthracene	17.121	278	586294	39.192	ng	99
92) Benzo(g,h,i)perylene	17.562	276	591110	38.651	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



Sample Results: **BF140463.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2		1,4-Dioxane	0.522	0.555	-6.3	101	0.00
3		Pyridine	1.283	1.308	-1.9	93	0.00
4		n-Nitrosodimethylamine	0.649	0.649	0.0	92	0.00
5	S	2-Fluorophenol	1.171	1.209	-3.2	98	0.00
6		Aniline	1.381	1.116	19.2	72	0.00
7	S	Phenol-d6	1.587	1.607	-1.3	93	0.01
8		2-Chlorophenol	1.258	1.294	-2.9	96	0.00
9		Benzaldehyde	0.951	1.383	-45.4#	145	0.00
10	C	Phenol	1.674	1.664	0.6	90	0.00
11		bis(2-Chloroethyl)ether	1.268	1.312	-3.5	97	0.00
12		1,3-Dichlorobenzene	1.388	1.422	-2.4	97	0.00
13	C	1,4-Dichlorobenzene	1.408	1.437	-2.1	96	0.00
14		1,2-Dichlorobenzene	1.307	1.338	-2.4	96	0.00
15		Benzyl Alcohol	1.143	1.110	2.9	85	0.00
16		2,2'-oxybis(1-Chloropropane	1.752	1.628	7.1	84	0.00
17		2-Methylphenol	1.035	1.061	-2.5	93	0.00
18		Hexachloroethane	0.520	0.523	-0.6	95	-0.01
19	P	n-Nitroso-di-n-propylamine	0.959	0.905	5.6	86	0.00
20		3+4-Methylphenols	1.294	1.288	0.5	89	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00
22		Acetophenone	0.465	0.479	-3.0	91	0.00
23	S	Nitrobenzene-d5	0.384	0.393	-2.3	89	0.00
24		Nitrobenzene	0.400	0.412	-3.0	90	0.00
25		Isophorone	0.680	0.671	1.3	85	0.00
26	C	2-Nitrophenol	0.177	0.189	-6.8	90	0.00
27		2,4-Dimethylphenol	0.227	0.237	-4.4	91	0.00
28		bis(2-Chloroethoxy)methane	0.417	0.423	-1.4	89	0.00
29	C	2,4-Dichlorophenol	0.281	0.294	-4.6	91	0.00
30		1,2,4-Trichlorobenzene	0.312	0.322	-3.2	91	0.00
31		Naphthalene	1.015	1.055	-3.9	92	0.00
32		Benzoic acid	0.200	0.206	-3.0	83	0.00
33		4-Chloroaniline	0.353	0.316	10.5	79	0.00
34	C	Hexachlorobutadiene	0.199	0.203	-2.0	89	0.00
35		Caprolactam	0.093	0.097	-4.3	90	0.00
36	C	4-Chloro-3-methylphenol	0.311	0.321	-3.2	89	0.00
37		2-Methylnaphthalene	0.651	0.665	-2.2	90	0.00
38		1-Methylnaphthalene	0.637	0.648	-1.7	88	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.553	0.568	-2.7	89	0.00
41	P	Hexachlorocyclopentadiene	0.142	0.127	10.6	76	0.00
42	S	2,4,6-Tribromophenol	0.199	0.209	-5.0	90	0.00
43	C	2,4,6-Trichlorophenol	0.363	0.376	-3.6	87	0.00
44		2,4,5-Trichlorophenol	0.397	0.420	-5.8	90	0.00
45	S	2-Fluorobiphenyl	1.244	1.257	-1.0	89	0.00
46		1,1'-Biphenyl	1.455	1.490	-2.4	88	0.00
47		2-Chloronaphthalene	1.108	1.130	-2.0	88	0.00

Sample Results: **BF140463.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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	0.368	0.379	-3.0	87	0.00
49		Acenaphthylene	1.677	1.756	-4.7	89	0.00
50		Dimethylphthalate	1.304	1.310	-0.5	86	0.00
51		2,6-Dinitrotoluene	0.297	0.312	-5.1	87	0.00
52	C	Acenaphthene	1.133	1.176	-3.8	89	0.00
53		3-Nitroaniline	0.312	0.322	-3.2	86	0.00
54	P	2,4-Dinitrophenol	0.153	0.157	-2.6	89	0.00
55		Dibenzofuran	1.603	1.660	-3.6	89	0.00
56	P	4-Nitrophenol	0.228	0.229	-0.4	81	0.02
57		2,4-Dinitrotoluene	0.391	0.413	-5.6	89	0.00
58		Fluorene	1.267	1.293	-2.1	89	0.00
59		2,3,4,6-Tetrachlorophenol	0.313	0.333	-6.4	87	0.00
60		Diethylphthalate	1.333	1.315	1.4	85	0.00
61		4-Chlorophenyl-phenylether	0.625	0.626	-0.2	86	0.00
62		4-Nitroaniline	0.319	0.326	-2.2	85	0.00
63		Azobenzene	1.317	1.304	1.0	84	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
65		4,6-Dinitro-2-methylphenol	0.108	0.117	-8.3	90	0.00
66	c	n-Nitrosodiphenylamine	0.578	0.588	-1.7	88	0.00
67		4-Bromophenyl-phenylether	0.200	0.204	-2.0	88	0.00
68		Hexachlorobenzene	0.225	0.231	-2.7	89	0.00
69		Atrazine	0.175	0.164	6.3	95	0.00
70	C	Pentachlorophenol	0.121	0.124	-2.5	82	0.00
71		Phenanthrene	0.940	0.946	-0.6	87	0.00
72		Anthracene	0.921	0.941	-2.2	88	0.00
73		Carbazole	0.909	0.940	-3.4	90	0.00
74		Di-n-butylphthalate	1.091	1.073	1.6	83	0.00
75	C	Fluoranthene	1.054	1.081	-2.6	89	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	89	0.02
77		Benzidine	0.768	0.356	53.6#	49#	0.00
78		Pyrene	1.711	1.689	1.3	90	0.00
79	S	Terphenyl-d14	1.152	1.112	3.5	88	0.00
80		Butylbenzylphthalate	0.657	0.669	-1.8	87	0.00
81		Benzo(a)anthracene	1.314	1.336	-1.7	94	0.02
82		3,3'-Dichlorobenzidine	0.418	0.391	6.5	87	0.02
83		Chrysene	1.199	1.224	-2.1	94	0.02
84		Bis(2-ethylhexyl)phthalate	0.877	0.897	-2.3	86	0.02
85	c	Di-n-octyl phthalate	1.235	1.330	-7.7	92	0.03
86	I	Perylene-d12	1.000	1.000	0.0	91	0.04
87		Indeno(1,2,3-cd)pyrene	1.235	1.208	2.2	87	0.05
88		Benzo(b)fluoranthene	1.308	1.249	4.5	90	0.04
89		Benzo(k)fluoranthene	1.069	1.194	-11.7	102	0.04
90	C	Benzo(a)pyrene	1.016	1.051	-3.4	95	0.04
91		Dibenzo(a,h)anthracene	1.021	1.001	2.0	87	0.05
92		Benzo(g,h,i)perylene	1.044	1.009	3.4	86	0.05

Sample Results: **BF140463.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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: **BF140463.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	93	0.00
2		1,4-Dioxane	40.000	42.537	-6.3	101	0.00
3		Pyridine	40.000	40.771	-1.9	93	0.00
4		n-Nitrosodimethylamine	40.000	40.024	-0.1	92	0.00
5	S	2-Fluorophenol	80.000	82.547	-3.2	98	0.00
6		Aniline	40.000	32.327	19.2	72	0.00
7	S	Phenol-d6	80.000	80.992	-1.2	93	0.01
8		2-Chlorophenol	40.000	41.140	-2.9	96	0.00
9		Benzaldehyde	40.000	58.159	-45.4#	145	0.00
10	C	Phenol	40.000	39.761	0.6	90	0.00
11		bis(2-Chloroethyl)ether	40.000	41.393	-3.5	97	0.00
12		1,3-Dichlorobenzene	40.000	40.956	-2.4	97	0.00
13	C	1,4-Dichlorobenzene	40.000	40.837	-2.1	96	0.00
14		1,2-Dichlorobenzene	40.000	40.968	-2.4	96	0.00
15		Benzyl Alcohol	40.000	38.814	3.0	85	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.173	7.1	84	0.00
17		2-Methylphenol	40.000	40.987	-2.5	93	0.00
18		Hexachloroethane	40.000	40.220	-0.5	95	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	37.779	5.6	86	0.00
20		3+4-Methylphenols	40.000	39.808	0.5	89	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	85	0.00
22		Acetophenone	40.000	41.174	-2.9	91	0.00
23	S	Nitrobenzene-d5	80.000	81.831	-2.3	89	0.00
24		Nitrobenzene	40.000	41.263	-3.2	90	0.00
25		Isophorone	40.000	39.459	1.4	85	0.00
26	C	2-Nitrophenol	40.000	42.574	-6.4	90	0.00
27		2,4-Dimethylphenol	40.000	41.806	-4.5	91	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.525	-1.3	89	0.00
29	C	2,4-Dichlorophenol	40.000	41.966	-4.9	91	0.00
30		1,2,4-Trichlorobenzene	40.000	41.274	-3.2	91	0.00
31		Naphthalene	40.000	41.604	-4.0	92	0.00
32		Benzoic acid	40.000	41.240	-3.1	83	0.00
33		4-Chloroaniline	40.000	35.854	10.4	79	0.00
34	C	Hexachlorobutadiene	40.000	40.692	-1.7	89	0.00
35		Caprolactam	40.000	41.768	-4.4	90	0.00
36	C	4-Chloro-3-methylphenol	40.000	41.294	-3.2	89	0.00
37		2-Methylnaphthalene	40.000	40.870	-2.2	90	0.00
38		1-Methylnaphthalene	40.000	40.670	-1.7	88	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	83	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.103	-2.8	89	0.00
41	P	Hexachlorocyclopentadiene	40.000	35.712	10.7	76	0.00
42	S	2,4,6-Tribromophenol	80.000	83.891	-4.9	90	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.418	-3.5	87	0.00
44		2,4,5-Trichlorophenol	40.000	42.298	-5.7	90	0.00
45	S	2-Fluorobiphenyl	80.000	80.841	-1.1	89	0.00
46		1,1'-Biphenyl	40.000	40.958	-2.4	88	0.00
47		2-Chloronaphthalene	40.000	40.776	-1.9	88	0.00

Sample Results: **BF140463.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	41.284	-3.2	87	0.00
49		Acenaphthylene	40.000	41.884	-4.7	89	0.00
50		Dimethylphthalate	40.000	40.190	-0.5	86	0.00
51		2,6-Dinitrotoluene	40.000	41.940	-4.8	87	0.00
52	C	Acenaphthene	40.000	41.519	-3.8	89	0.00
53		3-Nitroaniline	40.000	41.315	-3.3	86	0.00
54	P	2,4-Dinitrophenol	40.000	41.071	-2.7	89	0.00
55		Dibenzofuran	40.000	41.402	-3.5	89	0.00
56	P	4-Nitrophenol	40.000	40.306	-0.8	81	0.02
57		2,4-Dinitrotoluene	40.000	42.188	-5.5	89	0.00
58		Fluorene	40.000	40.829	-2.1	89	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.462	-6.2	87	0.00
60		Diethylphthalate	40.000	39.447	1.4	85	0.00
61		4-Chlorophenyl-phenylether	40.000	40.023	-0.1	86	0.00
62		4-Nitroaniline	40.000	40.848	-2.1	85	0.00
63		Azobenzene	40.000	39.612	1.0	84	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	84	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.438	-8.6	90	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.732	-1.8	88	0.00
67		4-Bromophenyl-phenylether	40.000	40.746	-1.9	88	0.00
68		Hexachlorobenzene	40.000	41.071	-2.7	89	0.00
69		Atrazine	40.000	37.493	6.3	95	0.00
70	C	Pentachlorophenol	40.000	41.043	-2.6	82	0.00
71		Phenanthrene	40.000	40.279	-0.7	87	0.00
72		Anthracene	40.000	40.869	-2.2	88	0.00
73		Carbazole	40.000	41.346	-3.4	90	0.00
74		Di-n-butylphthalate	40.000	39.333	1.7	83	0.00
75	C	Fluoranthene	40.000	41.018	-2.5	89	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	89	0.02
77		Benzidine	40.000	18.546	53.6#	49	0.00
78		Pyrene	40.000	39.484	1.3	90	0.00
79	S	Terphenyl-d14	80.000	77.238	3.5	88	0.00
80		Butylbenzylphthalate	40.000	40.737	-1.8	87	0.00
81		Benzo(a)anthracene	40.000	40.657	-1.6	94	0.02
82		3,3'-Dichlorobenzidine	40.000	37.472	6.3	87	0.02
83		Chrysene	40.000	40.837	-2.1	94	0.02
84		Bis(2-ethylhexyl)phthalate	40.000	40.903	-2.3	86	0.02
85	c	Di-n-octyl phthalate	40.000	43.070	-7.7	92	0.03
86	I	Perylene-d12	20.000	20.000	0.0	91	0.04
87		Indeno(1,2,3-cd)pyrene	40.000	39.125	2.2	87	0.05
88		Benzo(b)fluoranthene	40.000	38.175	4.6	90	0.04
89		Benzo(k)fluoranthene	40.000	44.690	-11.7	102	0.04
90	C	Benzo(a)pyrene	40.000	41.381	-3.5	95	0.04
91		Dibenzo(a,h)anthracene	40.000	39.192	2.0	87	0.05
92		Benzo(g,h,i)perylene	40.000	38.651	3.4	86	0.05

Sample Results: **BF140463.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140463.D
Acq On : 19 Nov 2024 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 19 11:22:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 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.: P4871 SAS No.: P4871 SDG No.: P4871

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

Instrument :
BNA_F
ClientSampleId :
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

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

Instrument :
BNA_F
ClientSampleId :
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

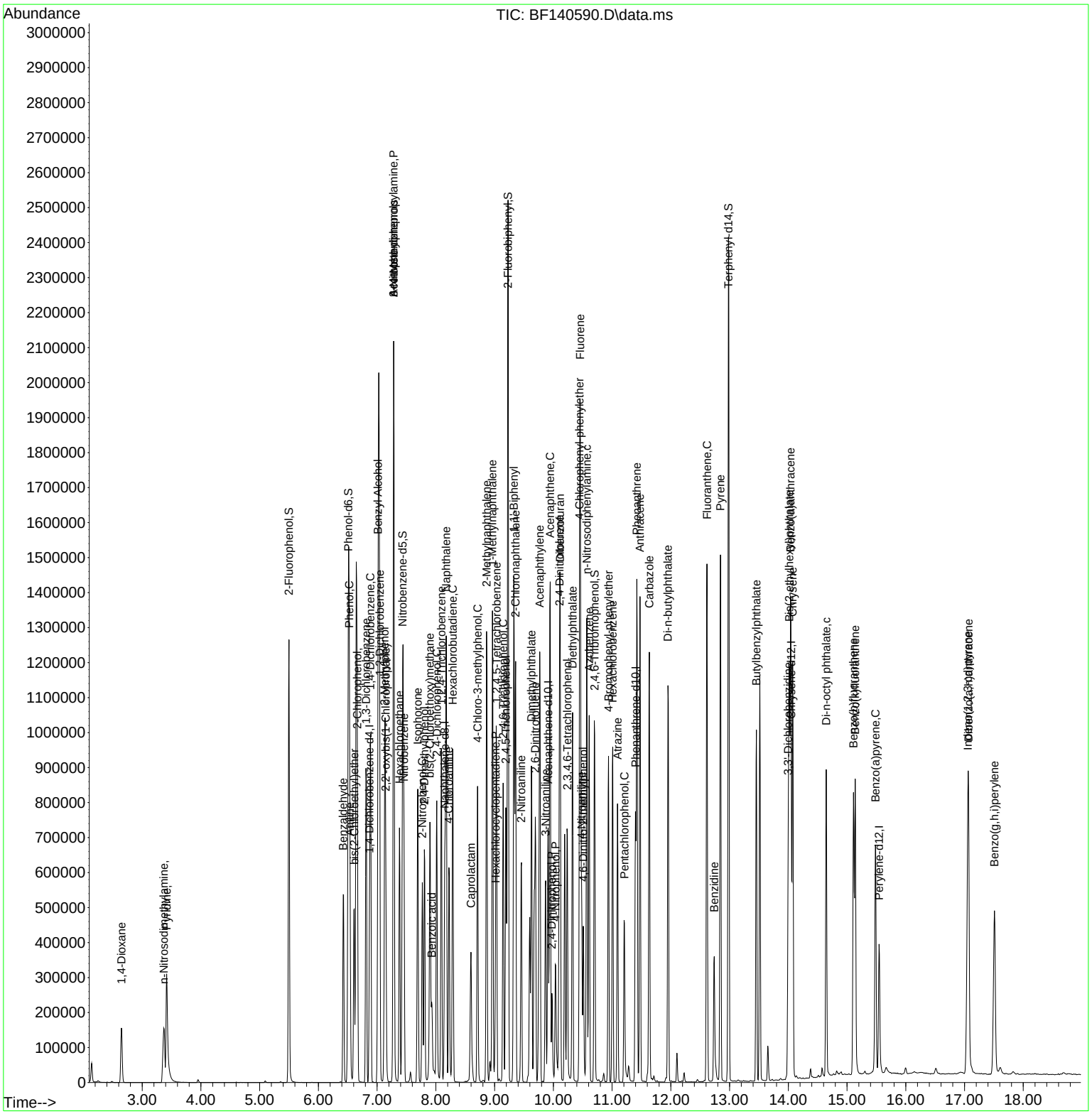
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	172363	40.663	ng	97
46) 1,1'-Biphenyl	9.328	154	630797	39.737	ng	100
47) 2-Chloronaphthalene	9.357	162	481726	40.050	ng	99
48) 2-Nitroaniline	9.451	65	153300	39.707	ng	99
49) Acenaphthylene	9.769	152	730688	40.206	ng	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

Instrument :
BNA_F
ClientSampleId :
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



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)
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.: P4871 SAS No.: P4871 SDG No.: P4871

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

Instrument :
BNA_F
ClientSampleId :
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

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

Instrument :
BNA_F
ClientSampleId :
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

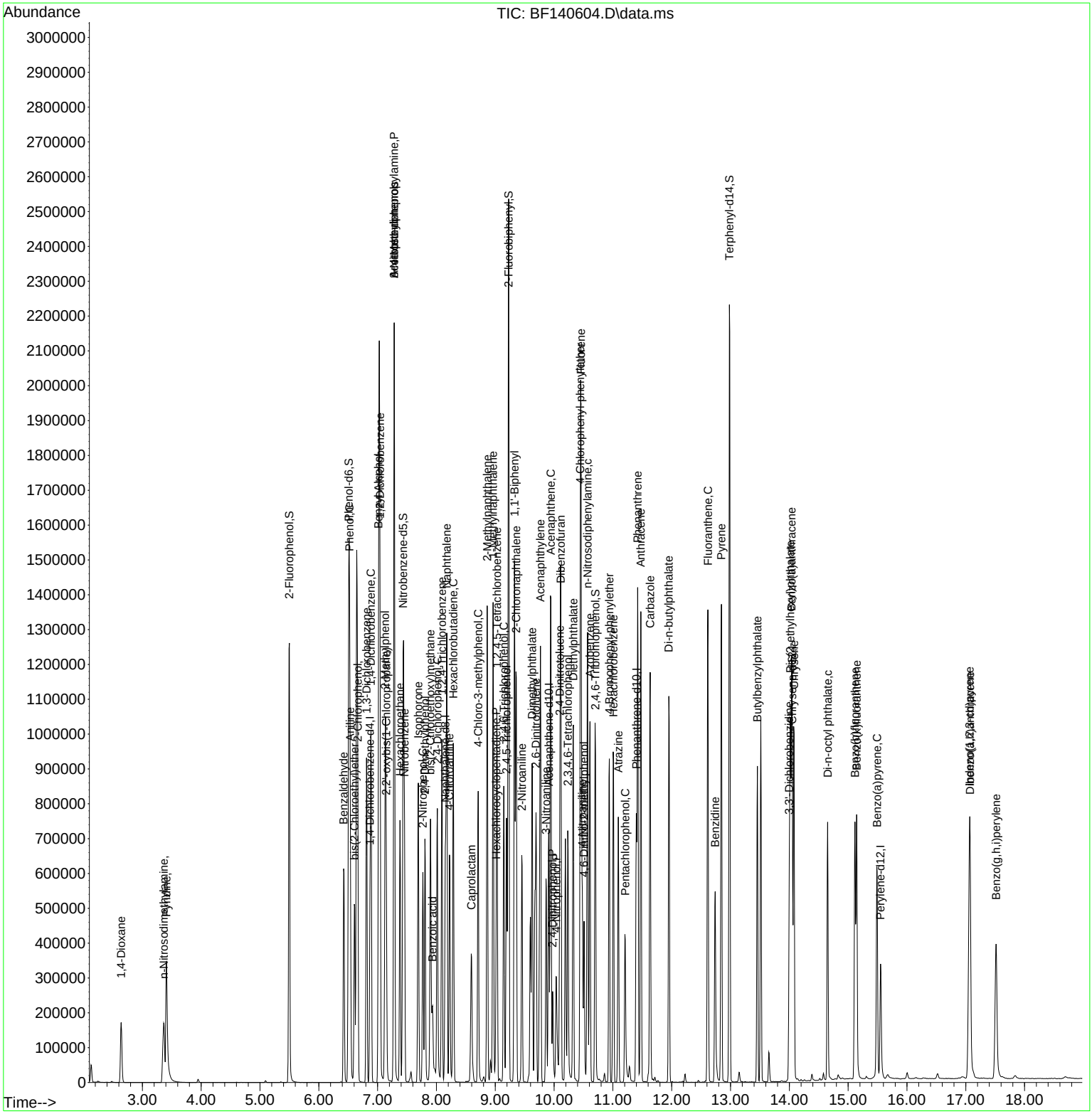
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	172838	39.616	ng	97
46) 1,1'-Biphenyl	9.328	154	642257	39.310	ng	100
47) 2-Chloronaphthalene	9.357	162	486075	39.263	ng	98
48) 2-Nitroaniline	9.451	65	153653	38.667	ng	99
49) Acenaphthylene	9.769	152	731583	39.111	ng	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

Instrument :
BNA_F
ClientSampleId :
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



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

QC SAMPLE DATA

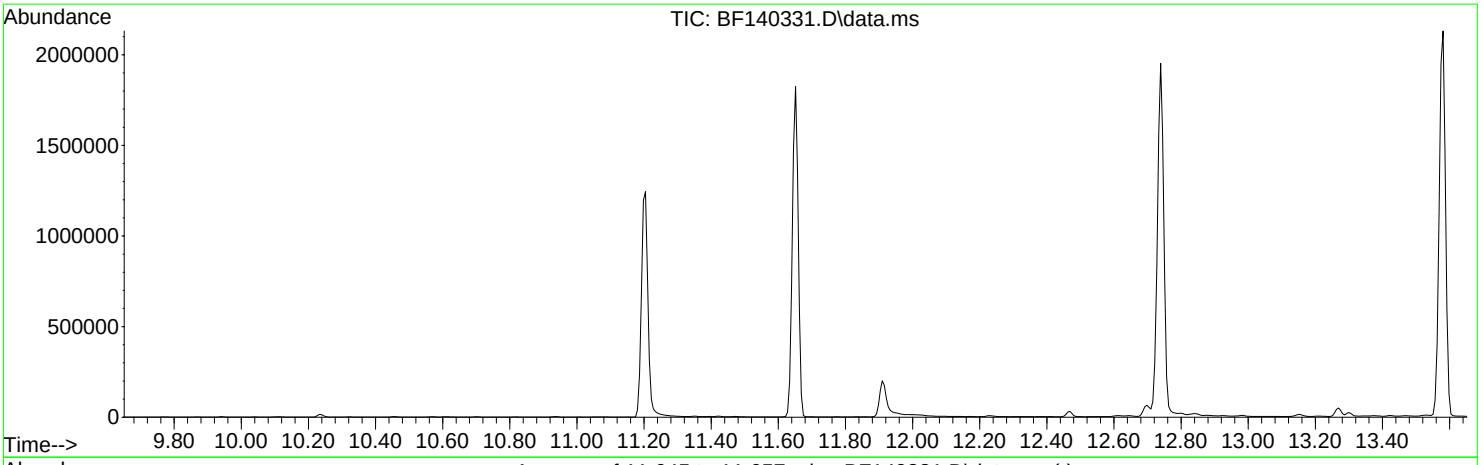
Sample Results: **BF140331.D**

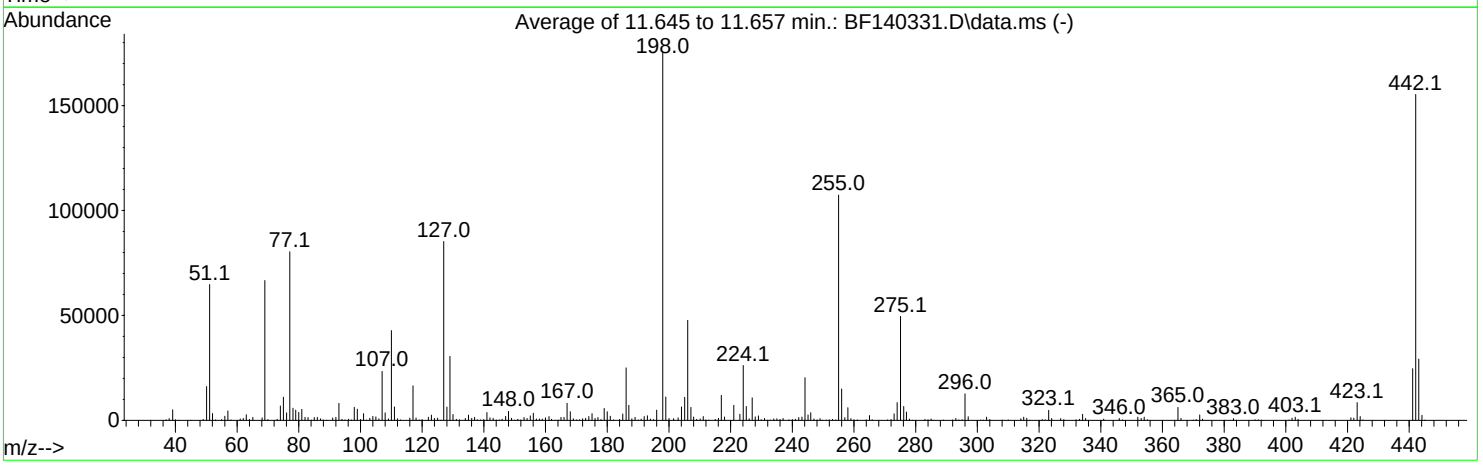
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024





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

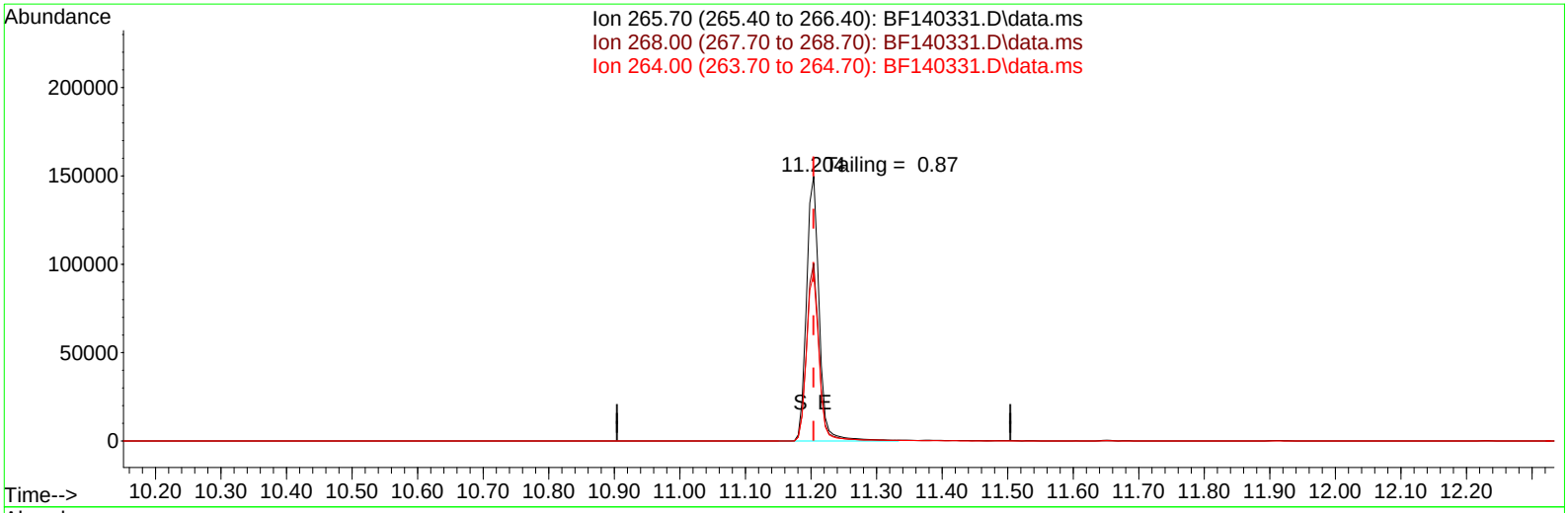
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.9	64757	PASS
68	69	0.00	2	1.8	1226	PASS
69	198	0.00	100	38.0	66677	PASS
70	69	0.00	2	0.6	372	PASS
127	198	10	80	48.6	85245	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	175296	PASS
199	198	5	9	6.4	11148	PASS
275	198	10	60	28.3	49536	PASS
365	198	1	100	3.5	6203	PASS
441	198	0.01	100	14.0	24595	PASS
442	442	50	100	100.0	155288	PASS
443	442	15	24	18.8	29203	PASS

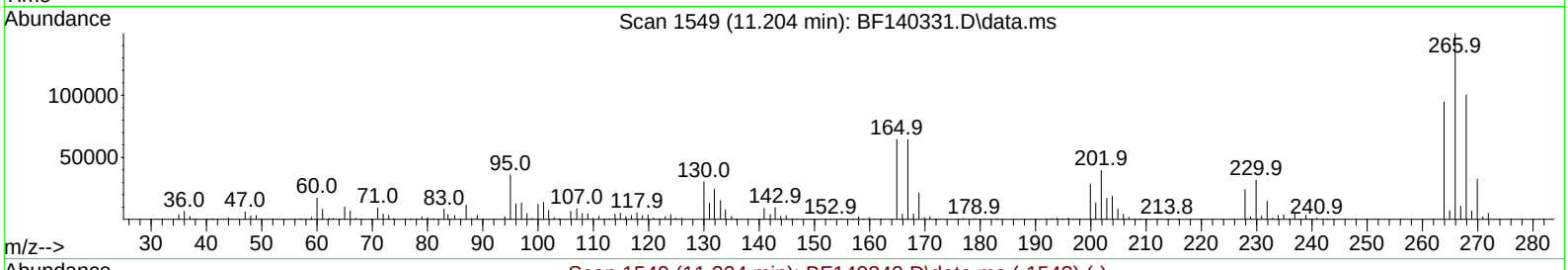
Sample Results: **BF140331.D**

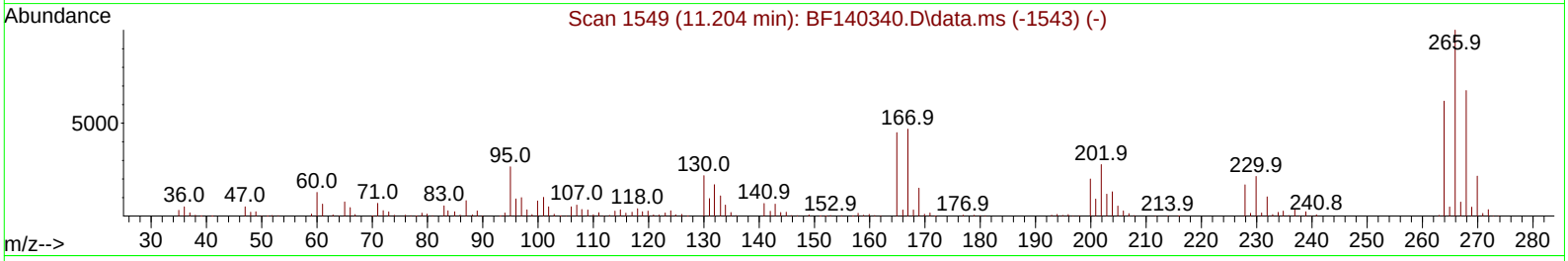
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 13 14:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140331.D\data.ms

(70) Pentachlorophenol (C)

11.204min (0.000) 23118.21 ng

response 201406

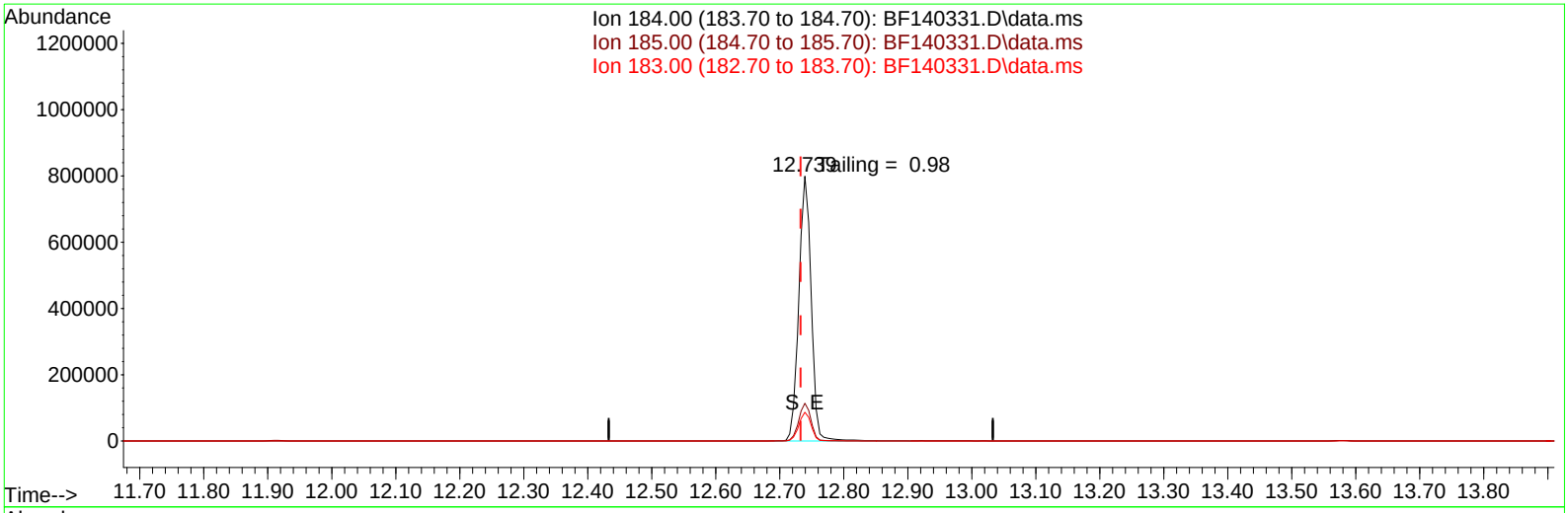
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	67.05
264.00	62.90	63.20
0.00	0.00	0.00

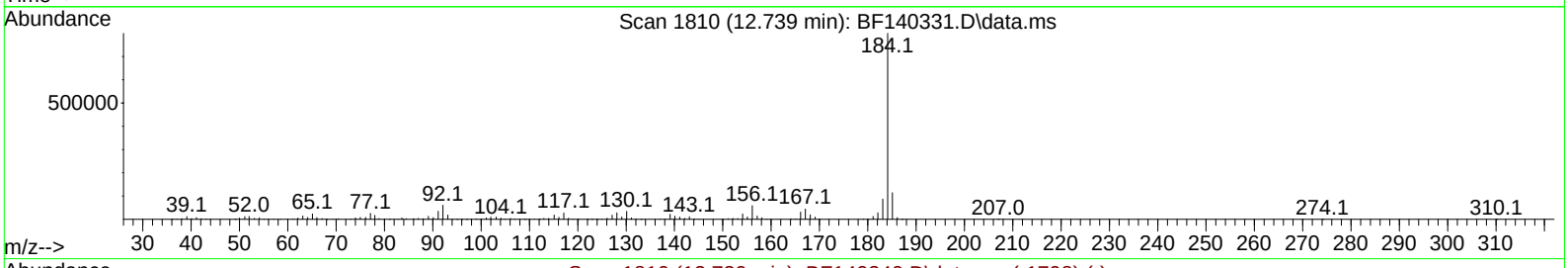
Sample Results: **BF140331.D**

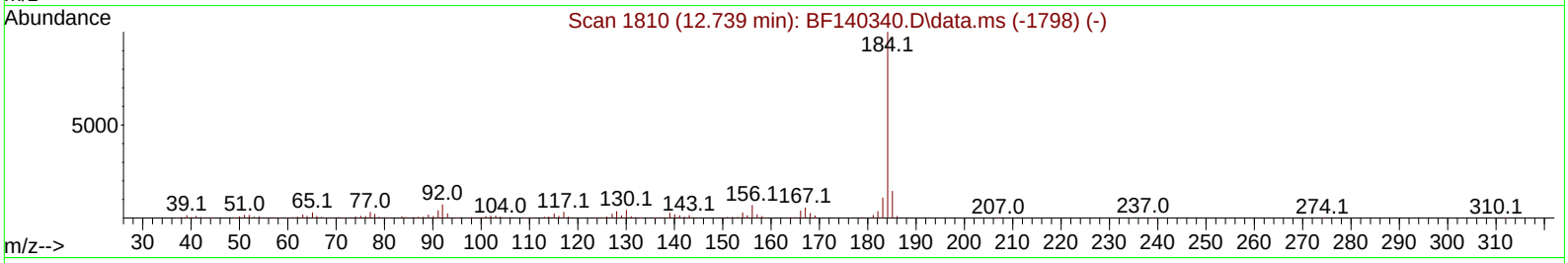
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 13 14:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140331.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 47514.94 ng

response 1075955

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.29
183.00	10.80	10.88
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_F	BF140331.D
Compound Name	**Response**	**Retention Time**
DDT	544964	13.58
DDD	17817	13.269
DDE	776	12.927
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
18593	563557	3.30

Instrument :
BNA_F
ClientSampleId :
DFTPP

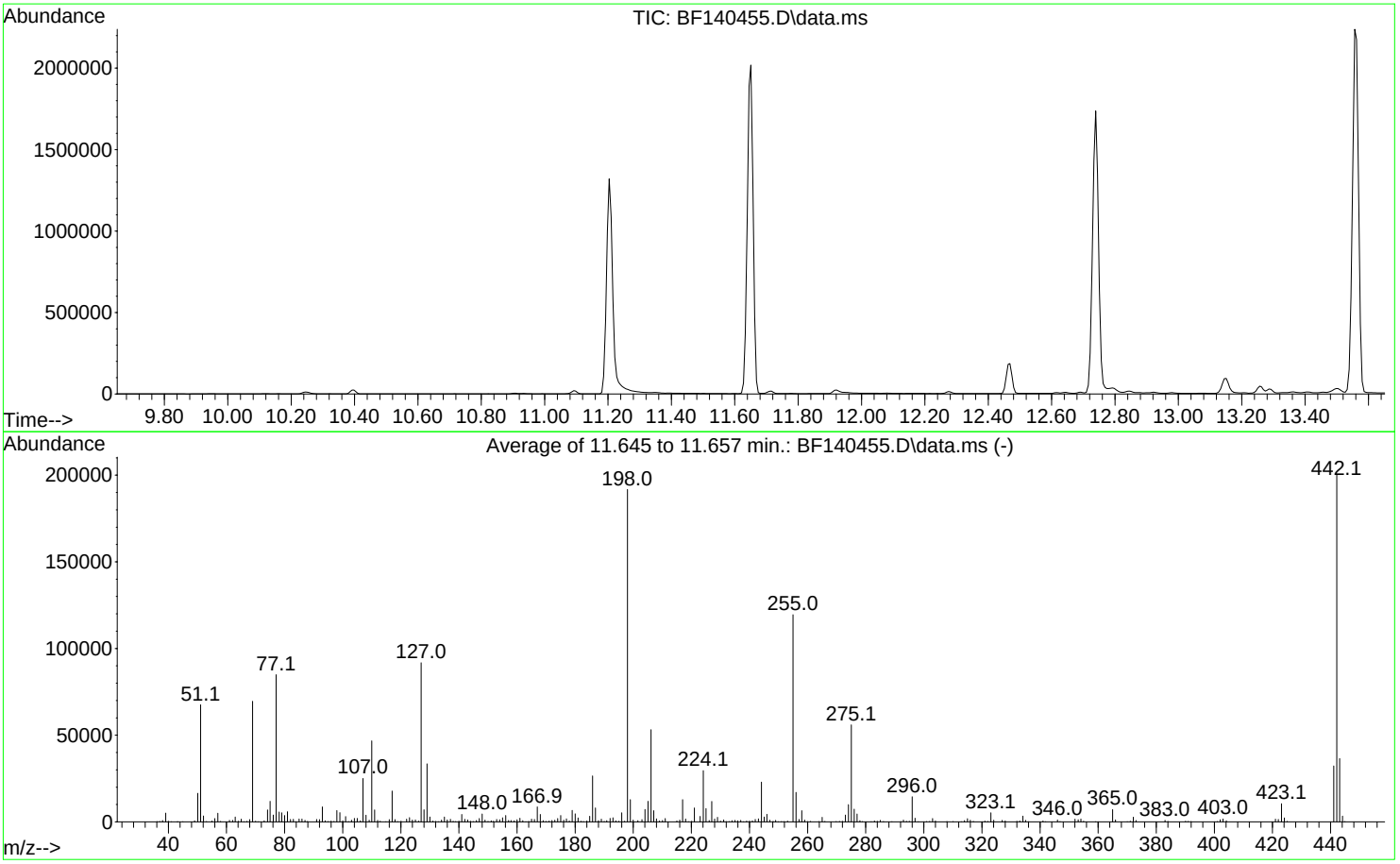
Sample Results: **BF140455.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140455.D
Acq On : 18 Nov 2024 15:48
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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 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	35.2	67520	PASS
68	69	0.00	2	1.9	1342	PASS
69	198	0.00	100	36.3	69579	PASS
70	69	0.00	2	0.5	373	PASS
127	198	10	80	47.9	91781	PASS
197	198	0.00	2	0.2	361	PASS
198	198	100	100	100.0	191744	PASS
199	198	5	9	6.7	12859	PASS
275	198	10	60	29.2	55968	PASS
365	198	1	100	3.7	7095	PASS
441	198	0.01	100	16.8	32264	PASS
442	442	50	100	100.0	200384	PASS
443	442	15	24	18.2	36493	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/18/2024	BNA_F	BF140455.D
Compound Name	**Response**	**Retention Time**
DDT	588546	13.563
DDD	13317	13.257
DDE	1536	12.921
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
14853	603399	2.46

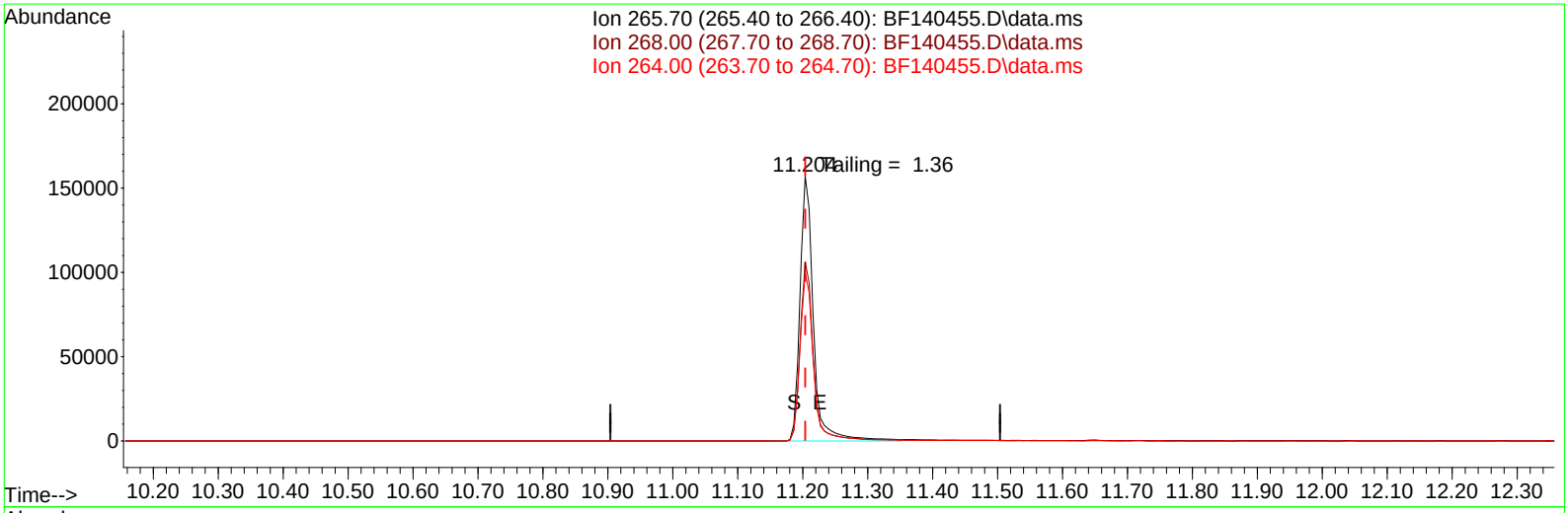
Instrument :
BNA_F
ClientSampleId :
DFTPP

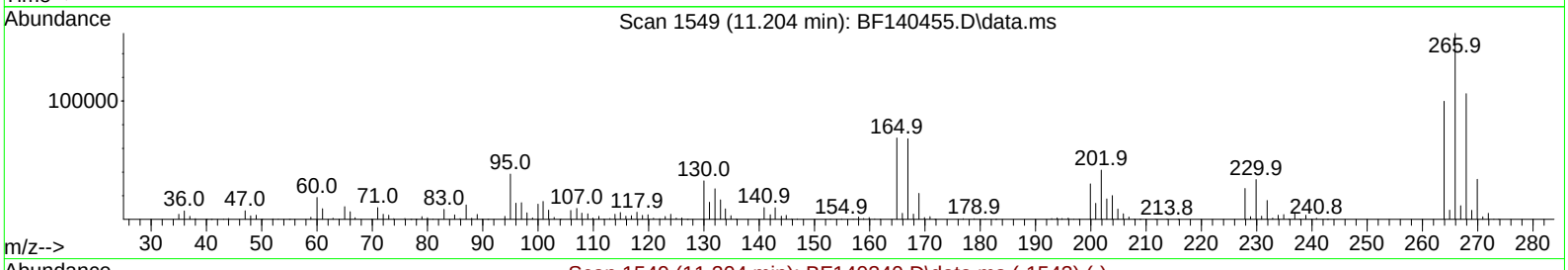
Sample Results: **BF140455.D**

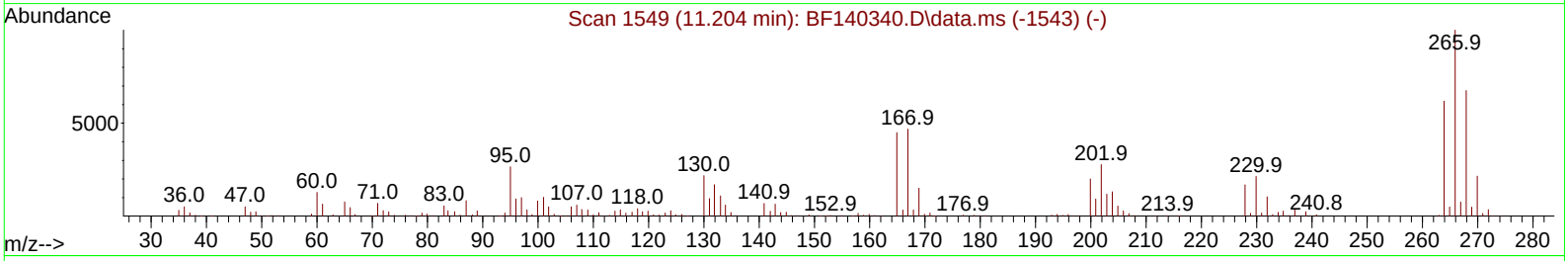
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140455.D
Acq On : 18 Nov 2024 15:48
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 18 16:27:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140455.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.000) 43255.76 ng

response 225635

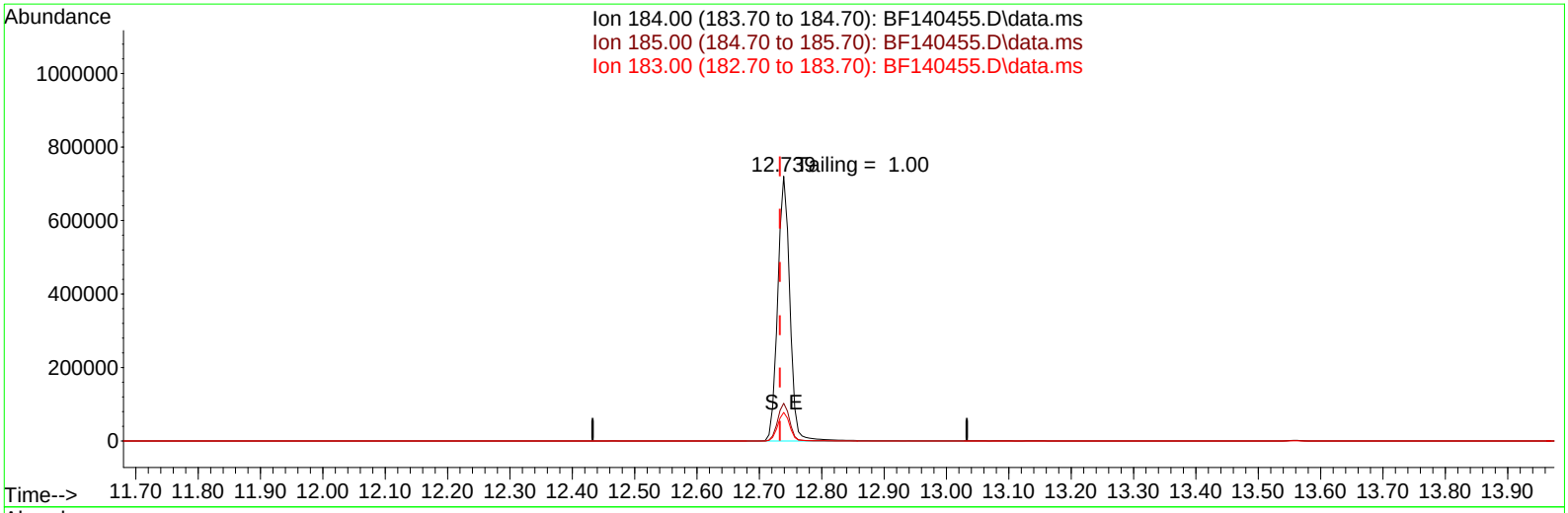
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	67.63
264.00	62.90	63.51
0.00	0.00	0.00

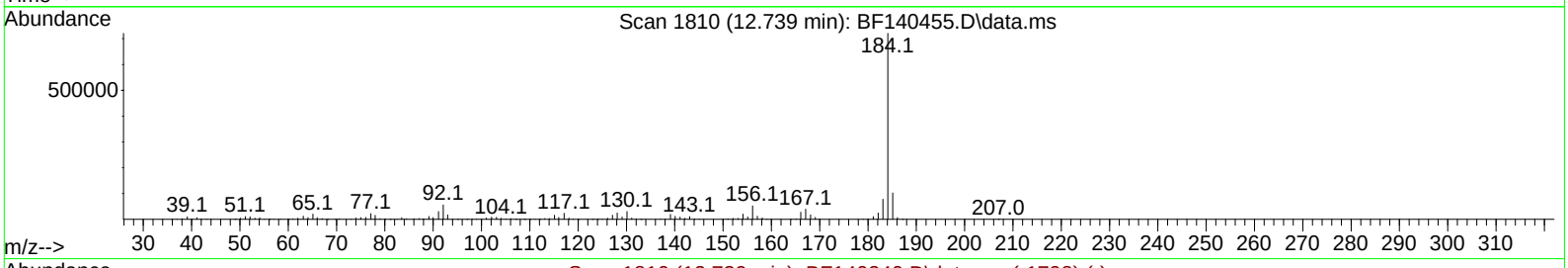
Sample Results: **BF140455.D**

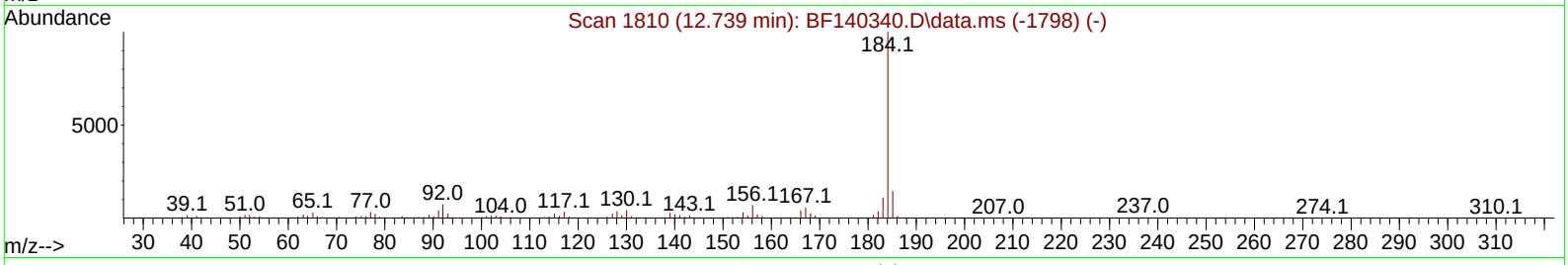
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140455.D
Acq On : 18 Nov 2024 15:48
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 18 16:27:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140455.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 31853.14 ng

response 979257

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.27
183.00	10.80	10.82
0.00	0.00	0.00

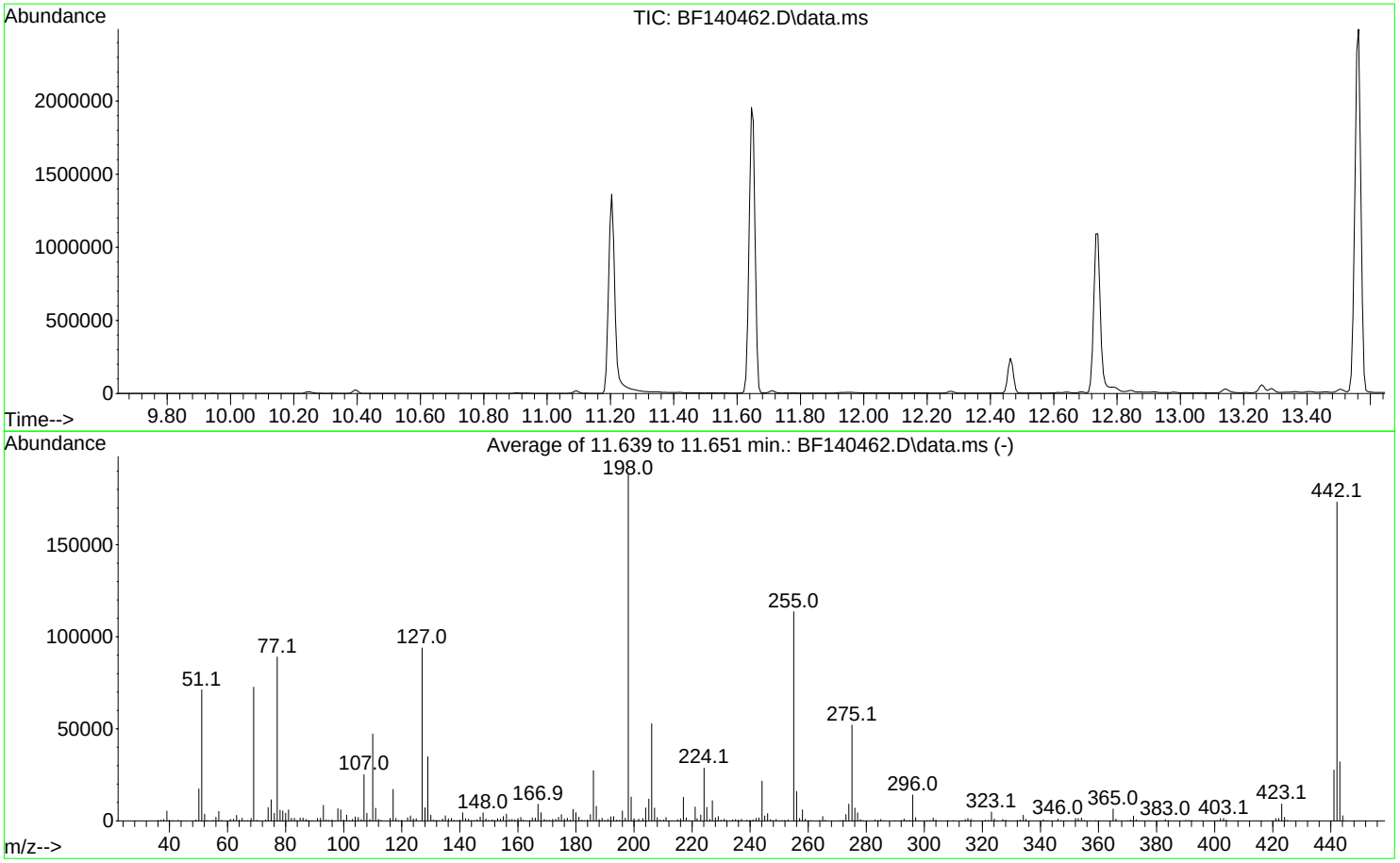
Sample Results: **BF140462.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140462.D
Acq On : 19 Nov 2024 09:32
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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 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	37.8	71237	PASS
68	69	0.00	2	1.9	1395	PASS
69	198	0.00	100	38.6	72669	PASS
70	69	0.00	2	0.5	372	PASS
127	198	10	80	49.9	93997	PASS
197	198	0.00	2	0.8	1518	PASS
198	198	100	100	100.0	188480	PASS
199	198	5	9	6.9	12968	PASS
275	198	10	60	27.6	52024	PASS
365	198	1	100	3.4	6457	PASS
441	198	0.01	100	14.7	27643	PASS
442	442	50	100	100.0	173237	PASS
443	442	15	24	18.5	32109	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/19/2024	BNA_F	BF140462.D
Compound Name	**Response**	**Retention Time**
DDT	652325	13.563
DDD	19967	13.257
DDE	1626	12.921
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
21593	673918	3.20

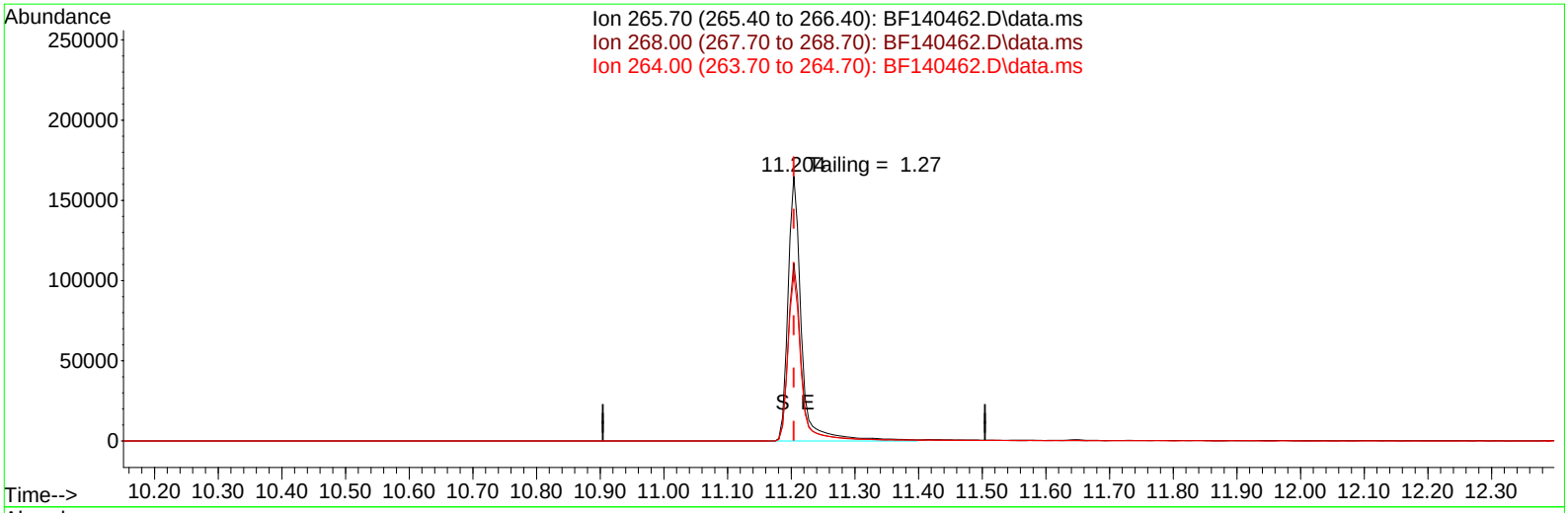
Instrument :
BNA_F
ClientSampleId :
DFTPP

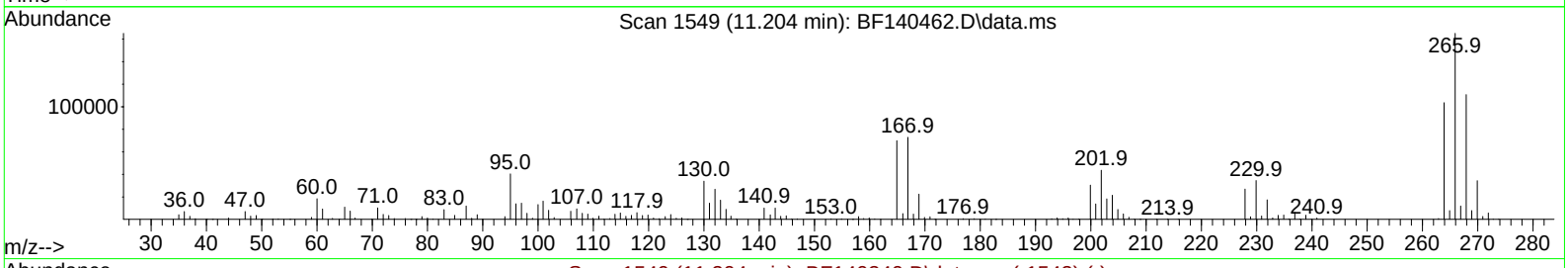
Sample Results: **BF140462.D**

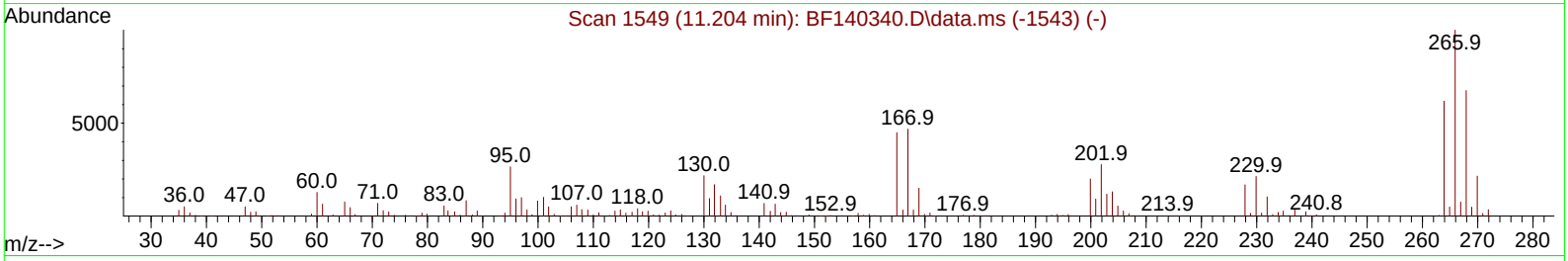
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140462.D
Acq On : 19 Nov 2024 09:32
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 19 11:21:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140462.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.000) 47510.91 ng

response 242650

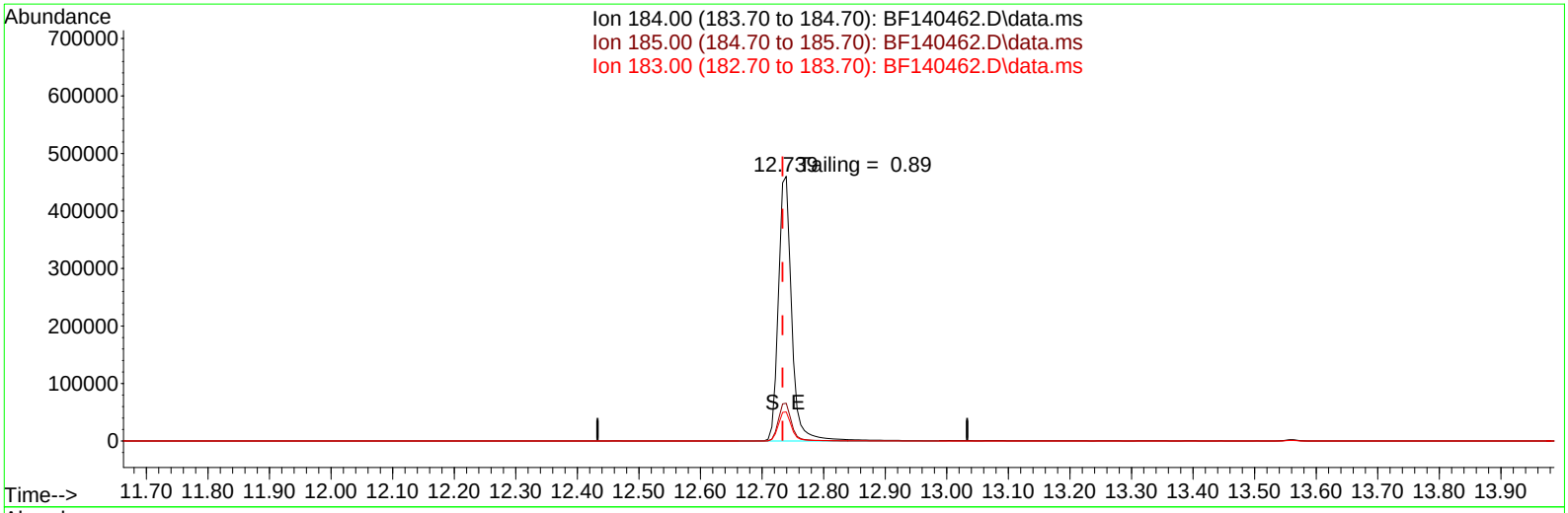
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	67.06
264.00	62.90	62.78
0.00	0.00	0.00

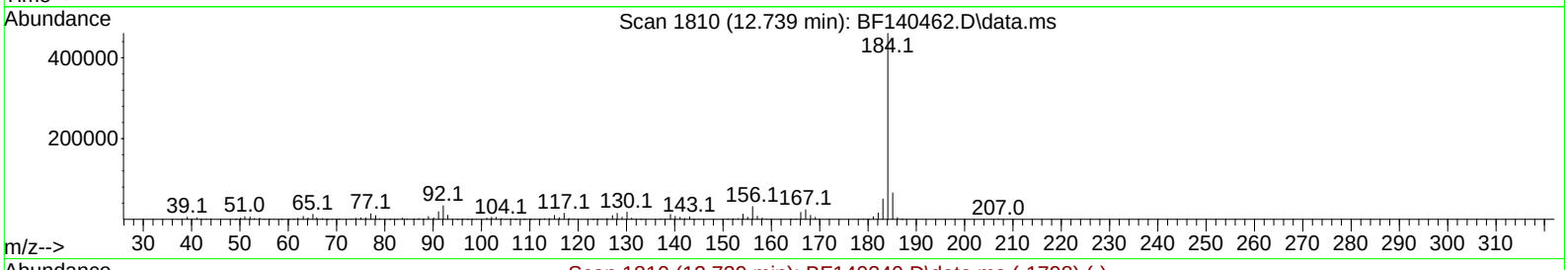
Sample Results: **BF140462.D**

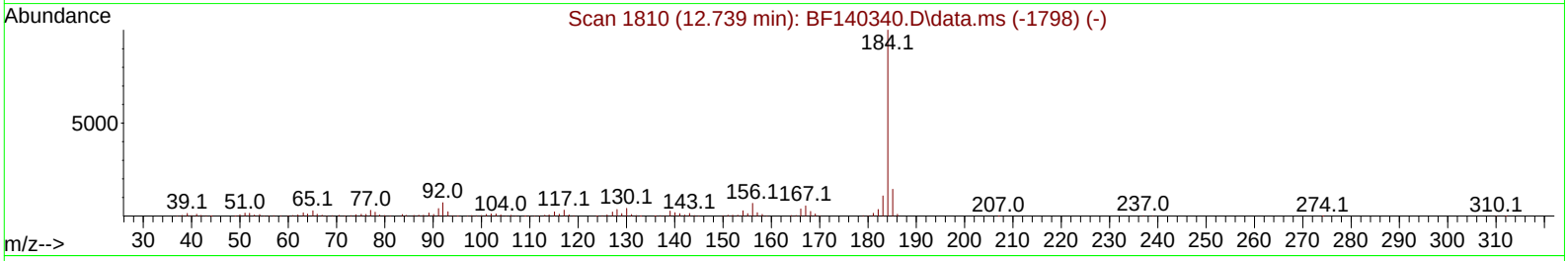
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140462.D
Acq On : 19 Nov 2024 09:32
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 19 11:21:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration







TIC: BF140462.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 17553.50 ng

response 697294

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.26
183.00	10.80	11.01
0.00	0.00	0.00

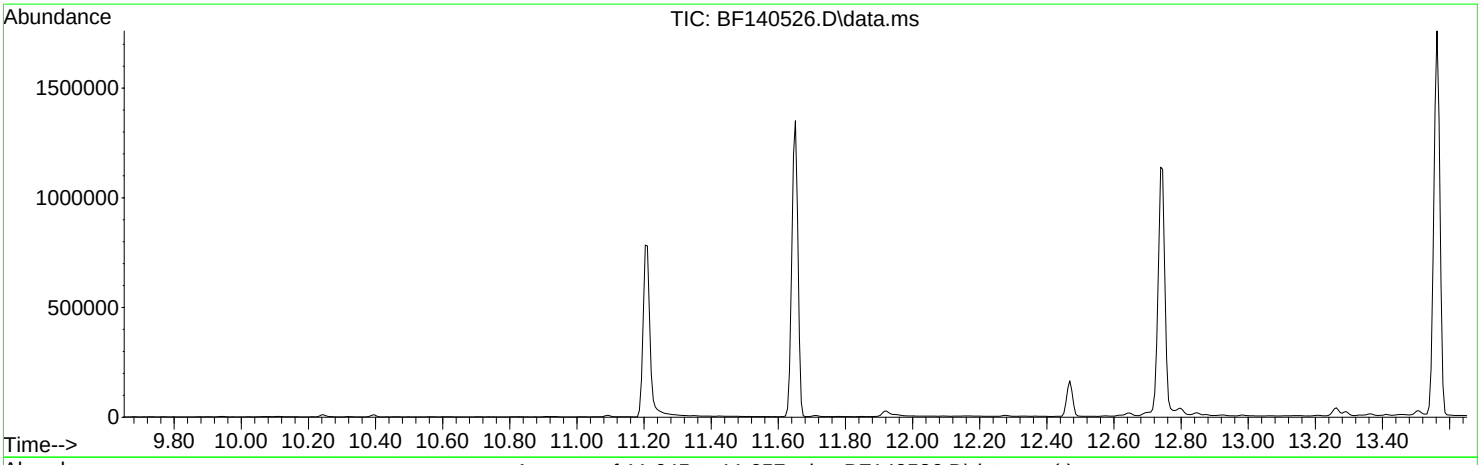
Sample Results: **BF140526.D**

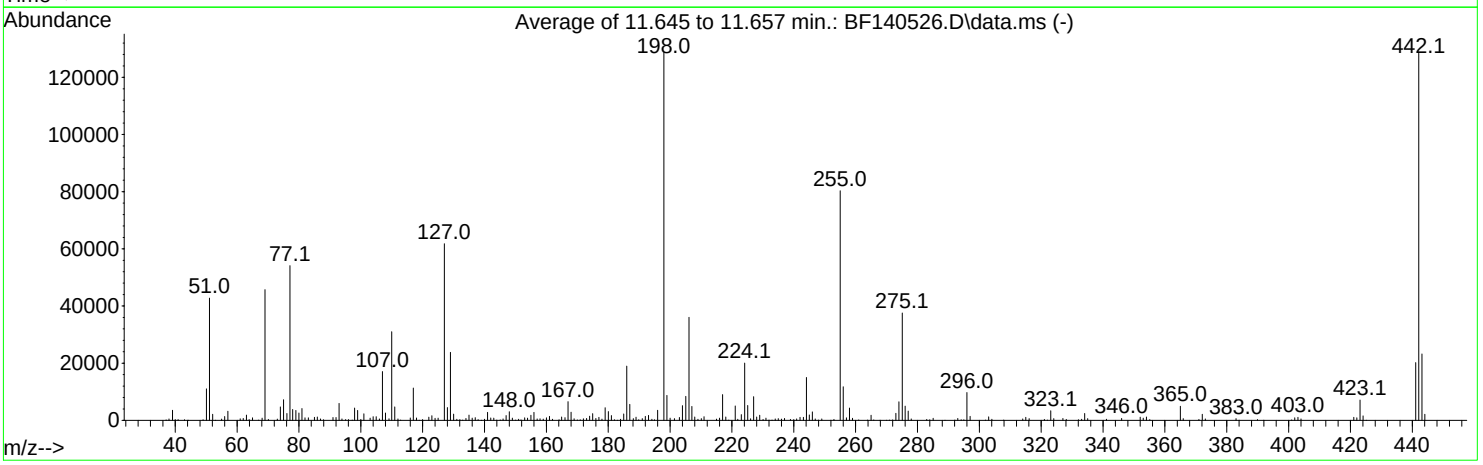
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

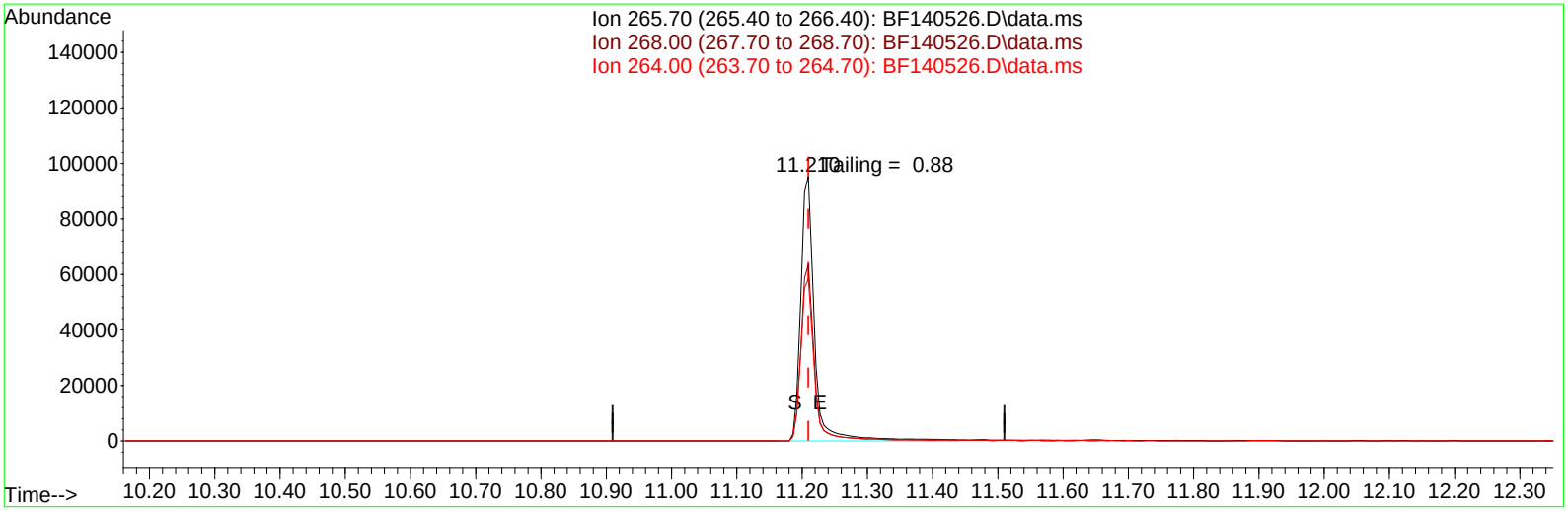
Quantitation Report (Qedit)

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

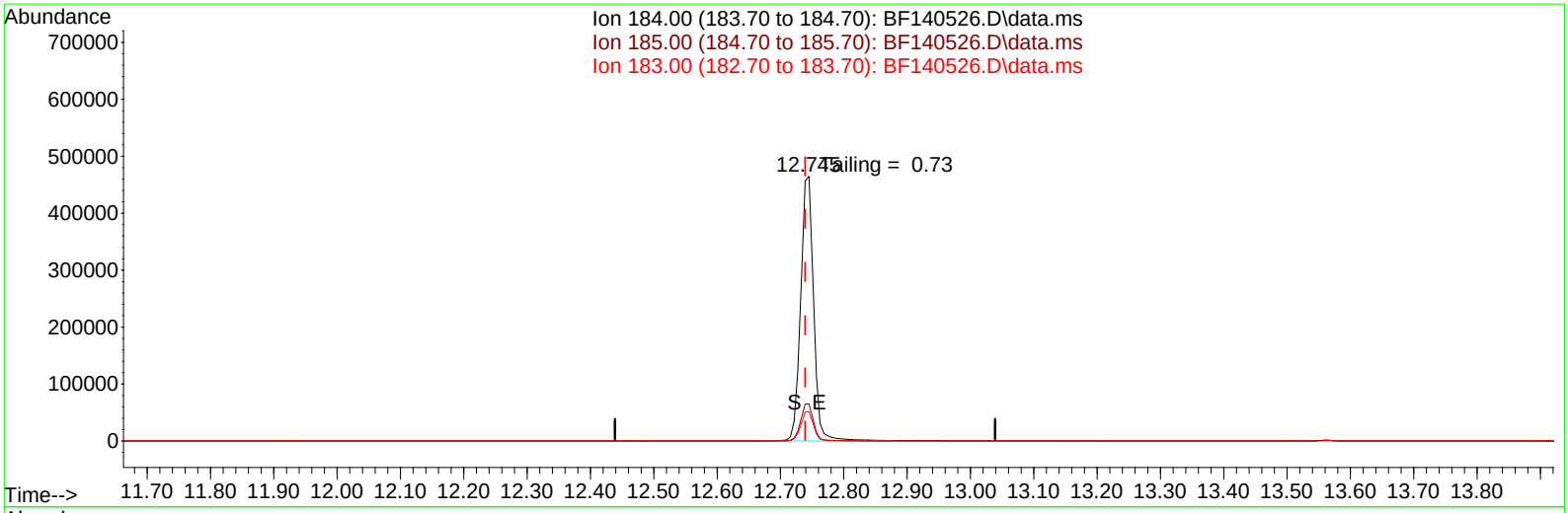


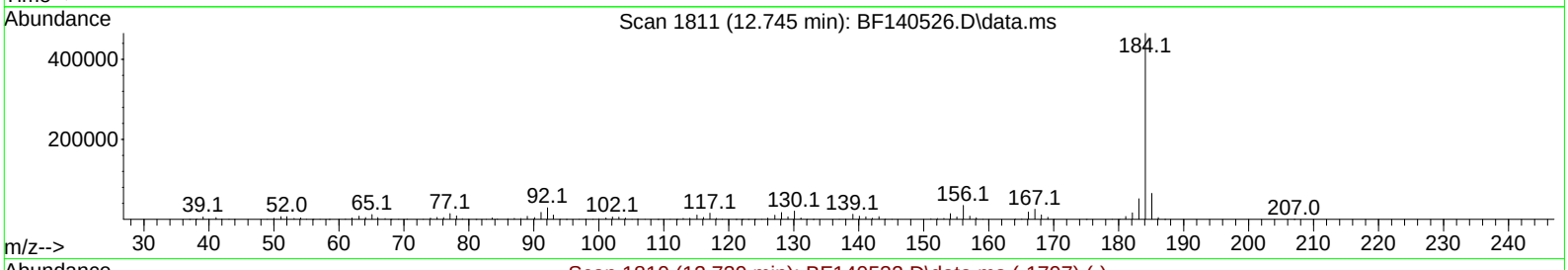
Sample Results: **BF140526.D**

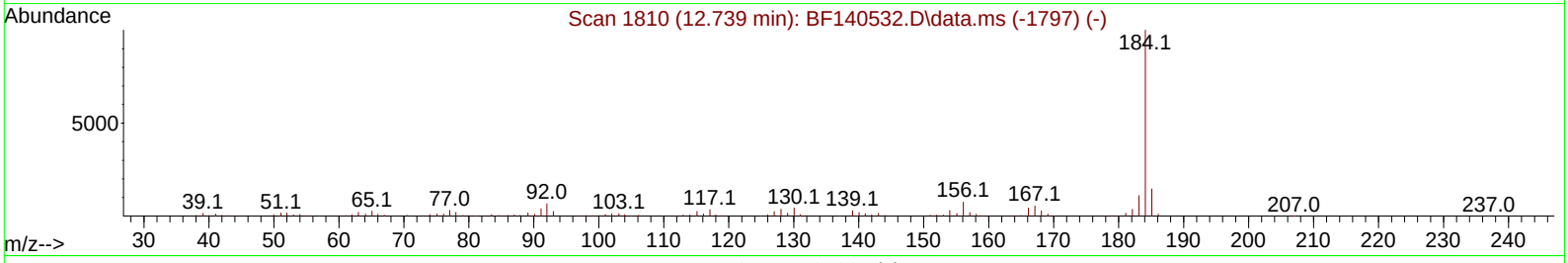
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

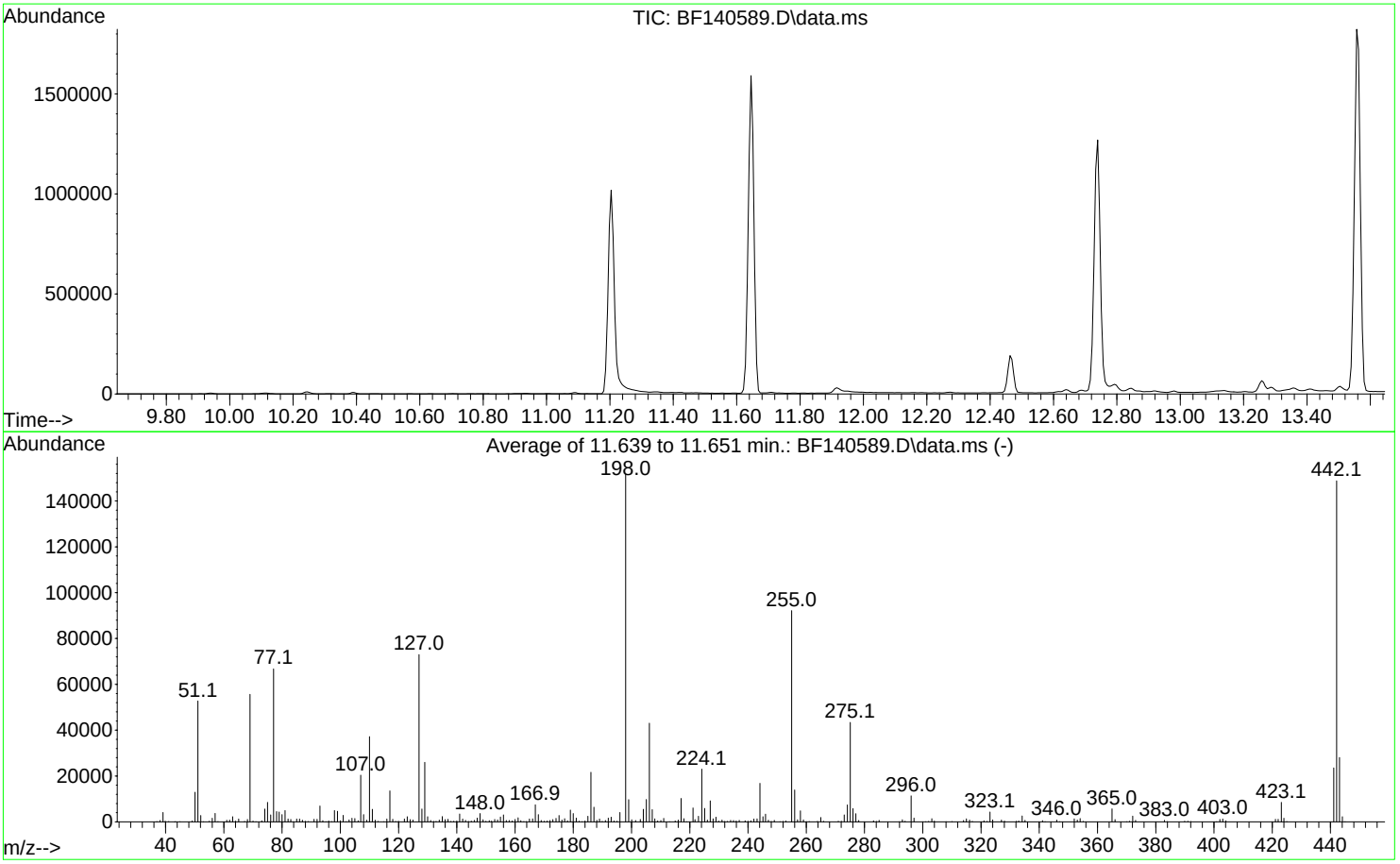
Sample Results: **BF140589.D**

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

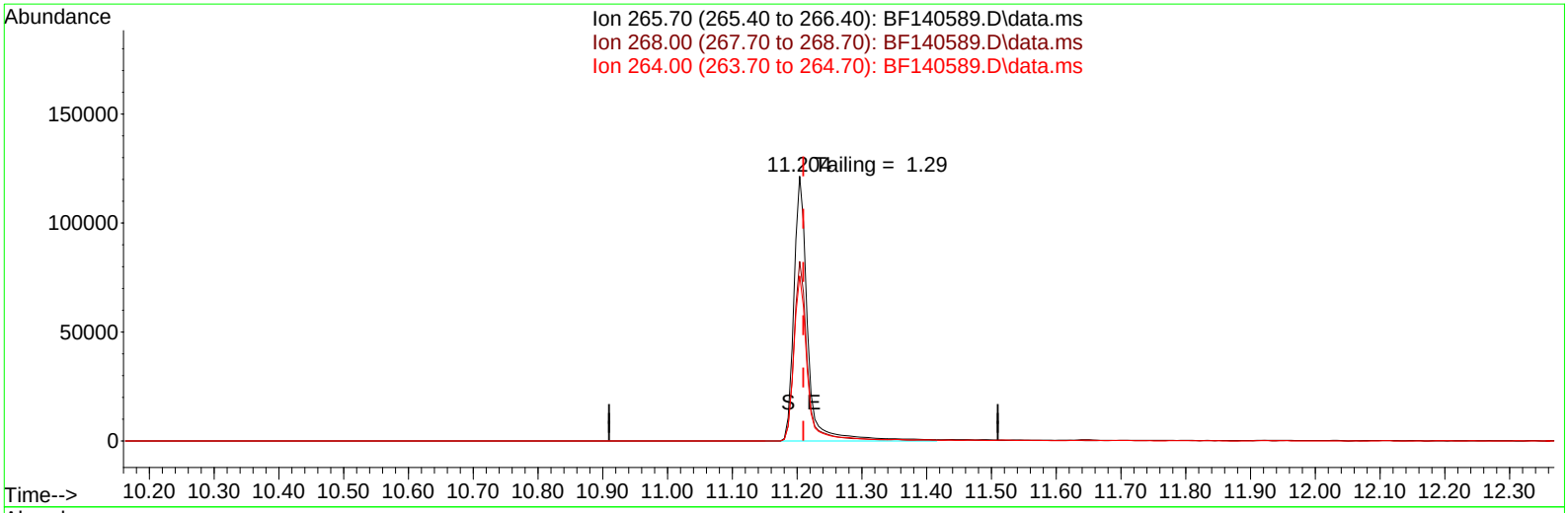
Instrument :
BNA_F
ClientSampleId :
DFTPP

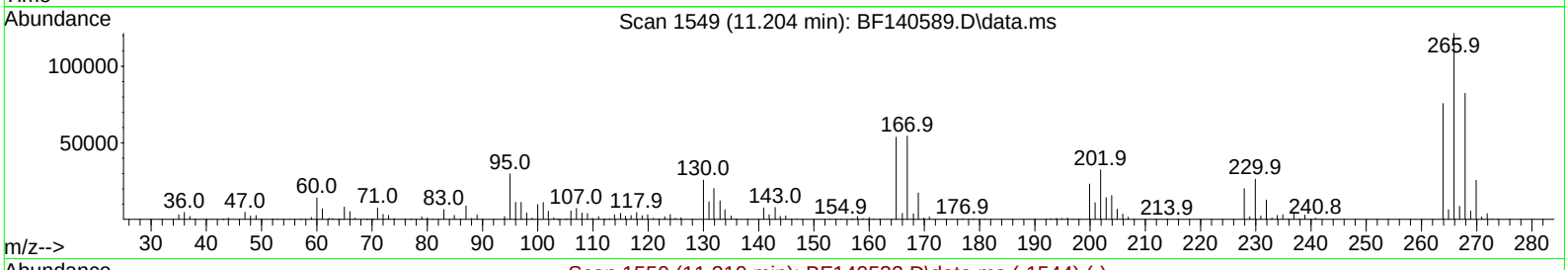
Sample Results: **BF140589.D**

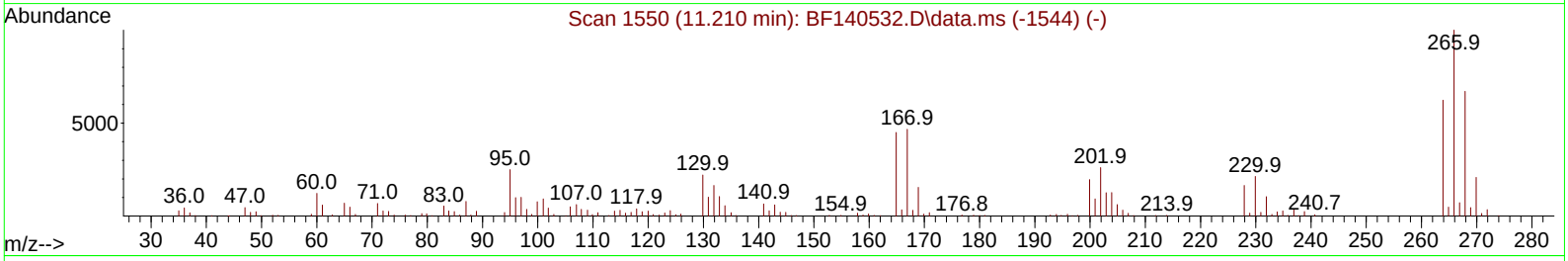
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140589.D
Acq On : 25 Nov 2024 09:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

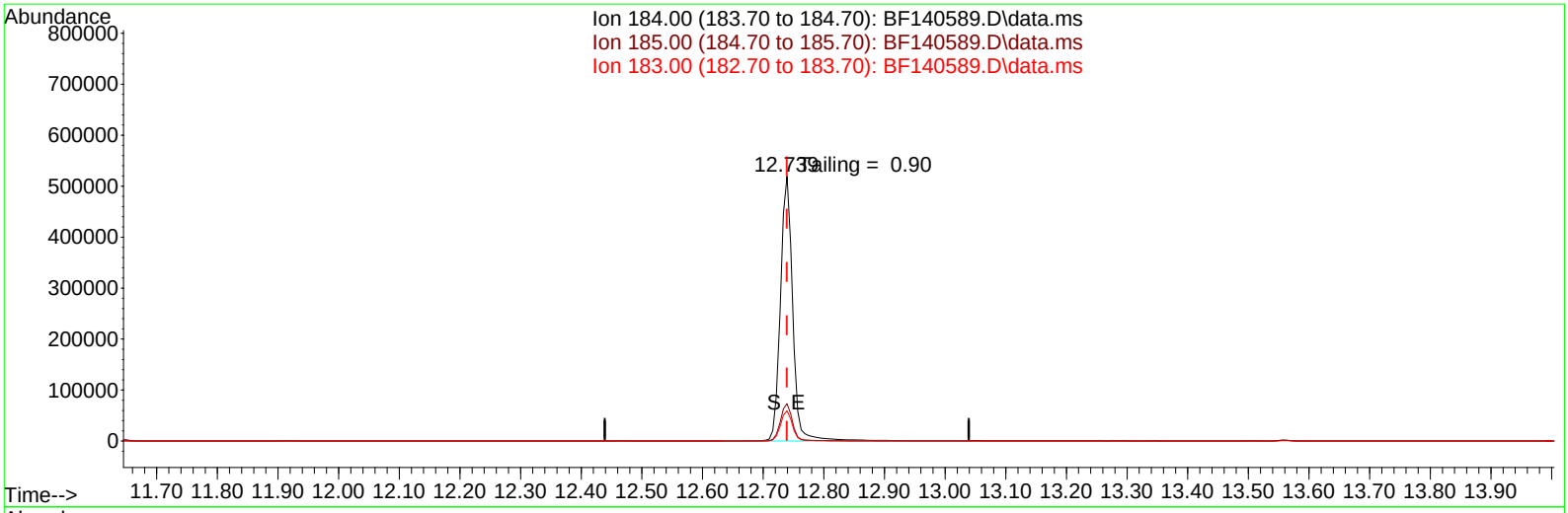
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.82
264.00	62.30	62.34
0.00	0.00	0.00

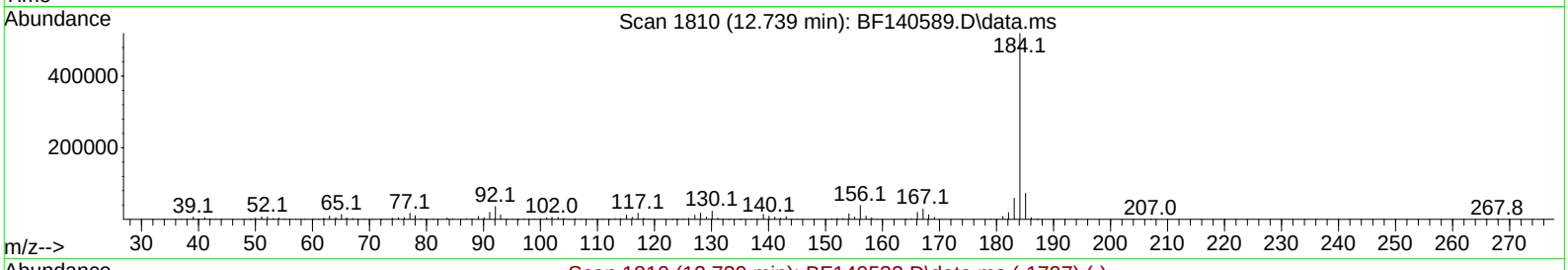
Sample Results: **BF140589.D**

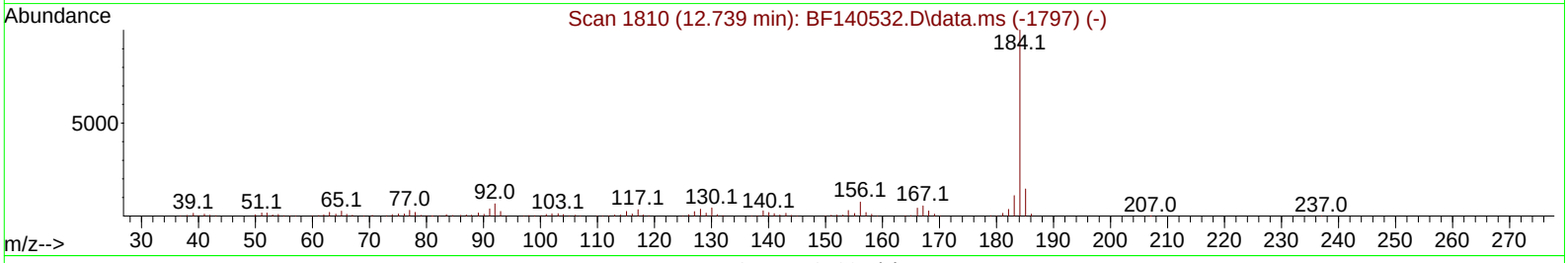
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140589.D
Acq On : 25 Nov 2024 09:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

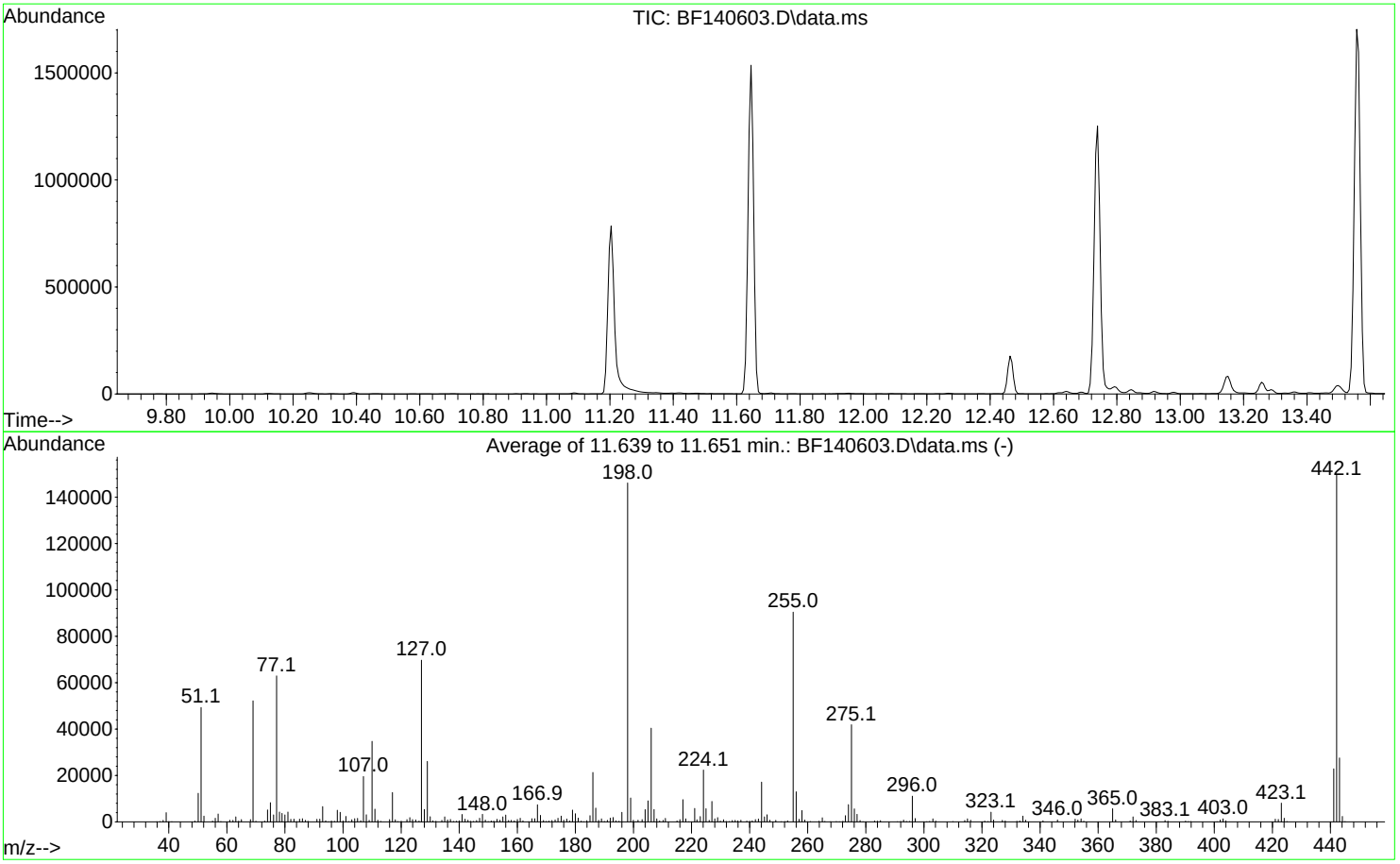
Sample Results: **BF140603.D**

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

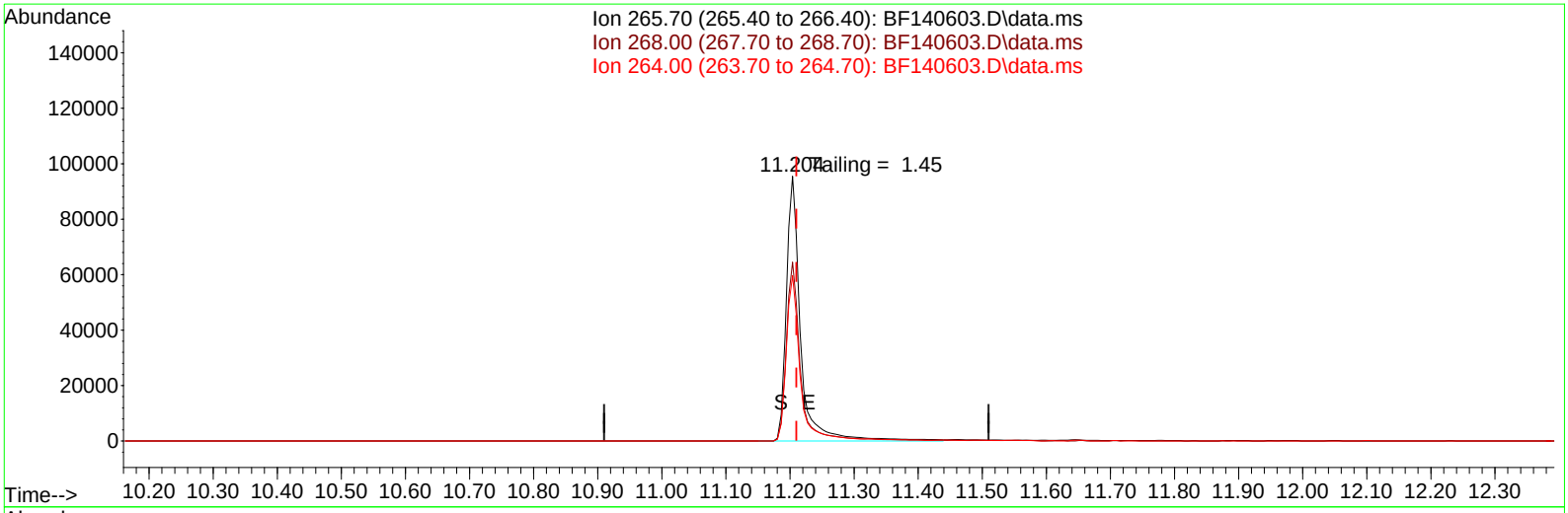
Instrument :
BNA_F
ClientSampleId :
DFTPP

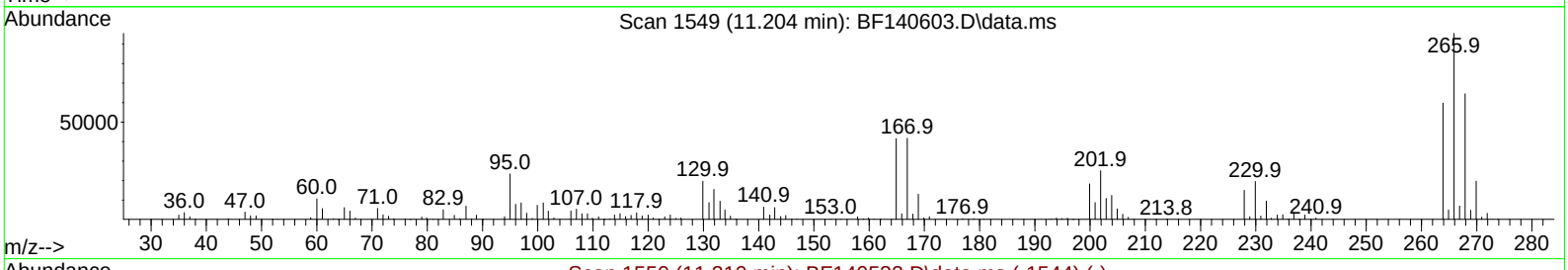
Sample Results: **BF140603.D**

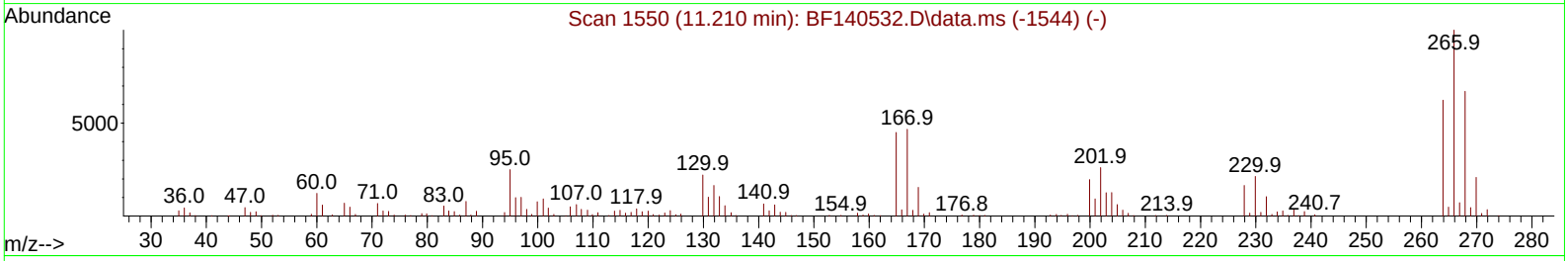
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

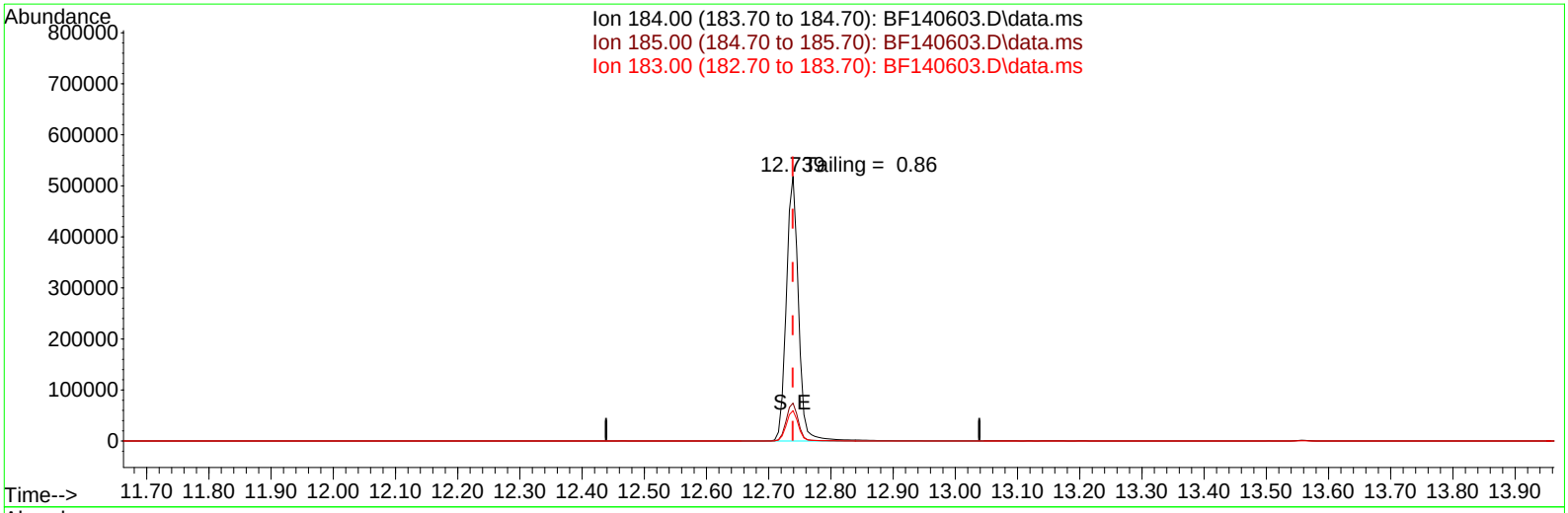
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.54
264.00	62.30	62.51
0.00	0.00	0.00

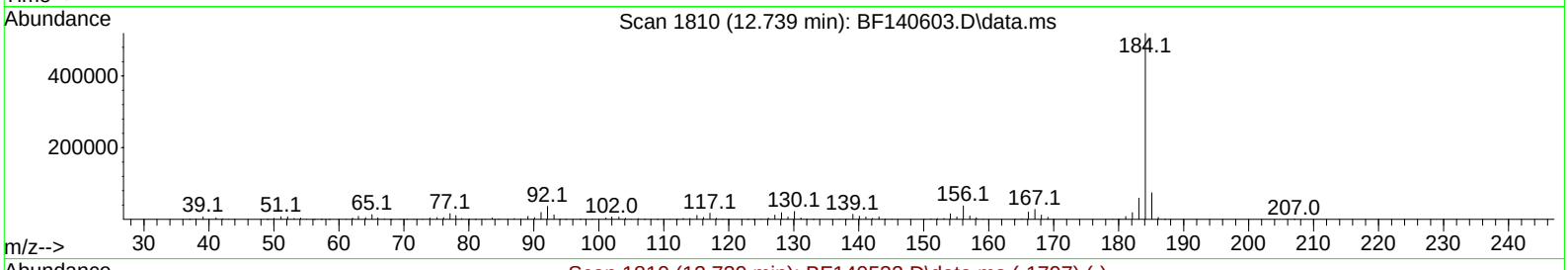
Sample Results: **BF140603.D**

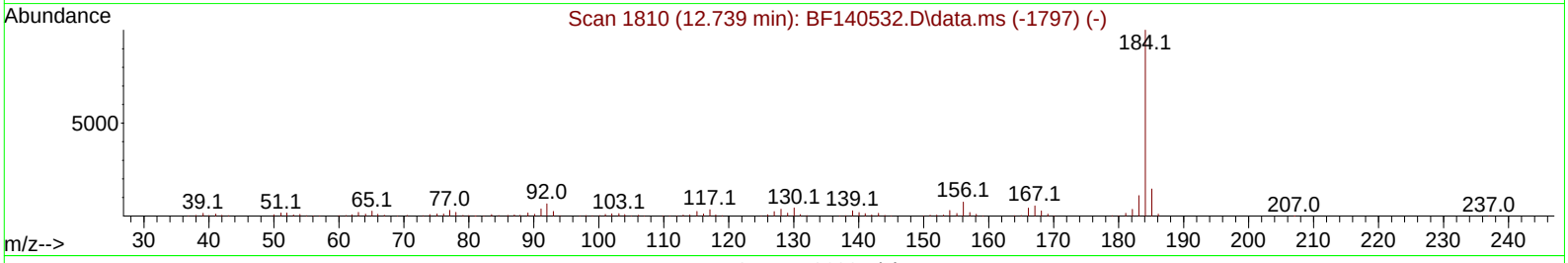
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

Raw Data: **BF140605.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:	PB165052BL	SDG No.:	P4871
Lab Sample ID:	PB165052BL	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
BF140605.D	1	11/18/24 08:35	11/25/24 16:17	PB165052

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	138		10 - 139	92%	SPK: 150
13127-88-3	Phenol-d6	132		10 - 134	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.9		52 - 132	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		44 - 137	88%	SPK: 150
1718-51-0	Terphenyl-d14	102		48 - 125	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	101000	6.869			
1146-65-2	Naphthalene-d8	378000	8.151			
15067-26-2	Acenaphthene-d10	214000	9.904			
1517-22-2	Phenanthrene-d10	408000	11.398			
1719-03-5	Chrysene-d12	220000	14.045			
1520-96-3	Perylene-d12	187000	15.545			

Raw Data: **BF140605.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:	PB165052BL			SDG No.:	P4871
Lab Sample ID:	PB165052BL			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
BF140605.D	1	11/18/24 08:35	11/25/24 16:17	PB165052

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: **BF140605.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140605.D
Acq On : 25 Nov 2024 16:17
Operator : RC/JU
Sample : PB165052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Quant Time: Nov 25 17:17:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

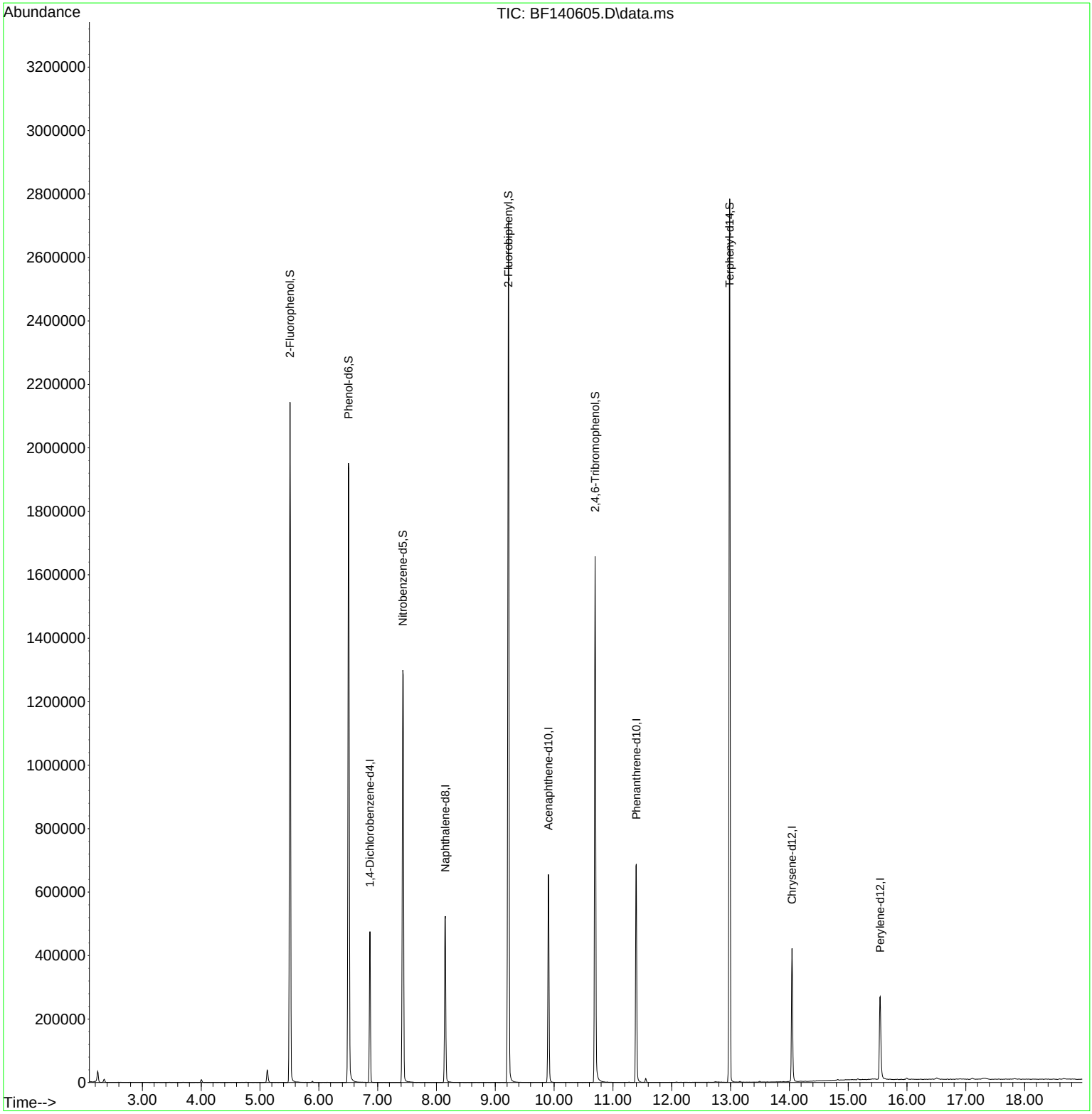
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	100879	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	377922	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	213827	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	407609	20.000	ng	0.00
76) Chrysene-d12	14.045	240	220442	20.000	ng	0.00
86) Perylene-d12	15.545	264	187220	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	817161	138.210	ng	0.01
7) Phenol-d6	6.504	99	1033854	132.267	ng	-0.01
23) Nitrobenzene-d5	7.428	82	681563	92.247	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	303405	132.671	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	1333412	92.912	ng	-0.01
79) Terphenyl-d14	12.986	244	1438039	101.578	ng	0.00
Target Compounds						Qvalue

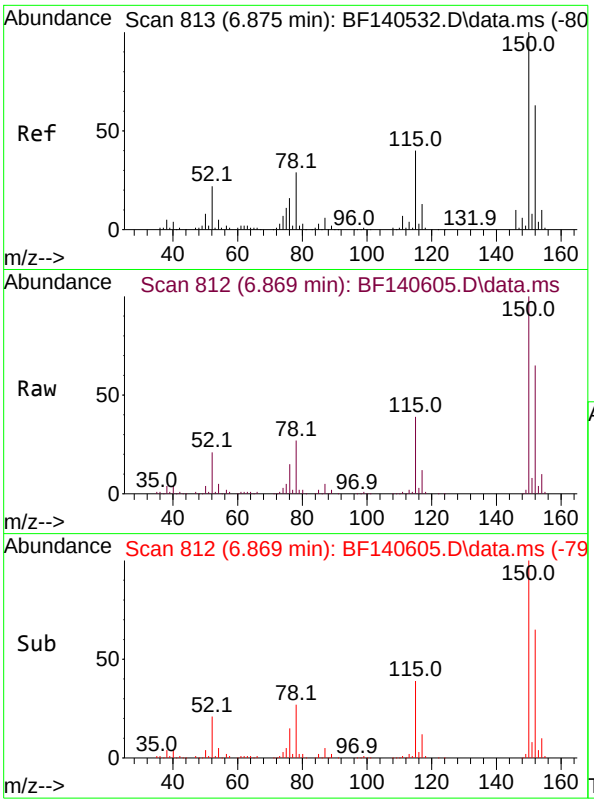
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140605.D
Acq On : 25 Nov 2024 16:17
Operator : RC/JU
Sample : PB165052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Quant Time: Nov 25 17:17:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



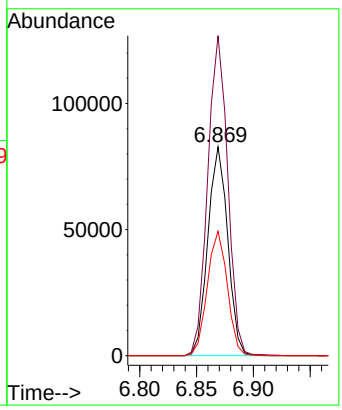


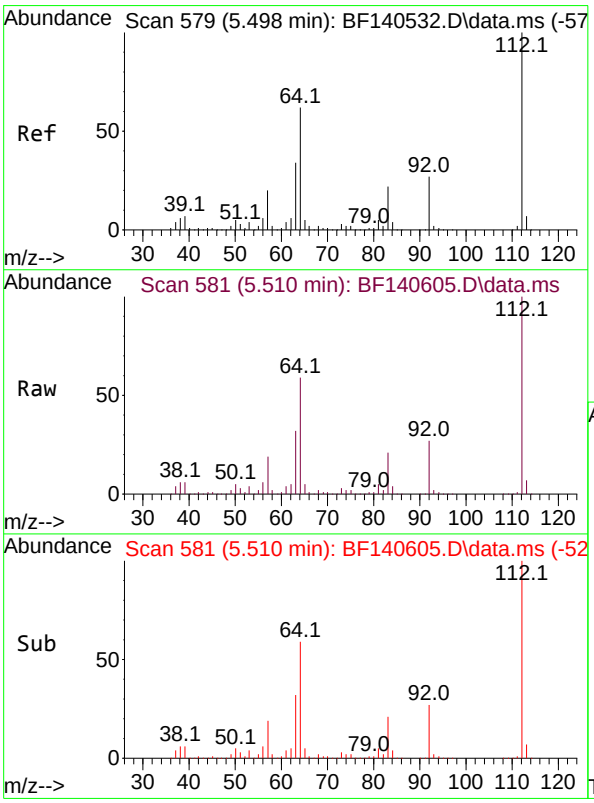
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Tgt Ion:152 Resp: 100879

Ion	Ratio	Lower	Upper
152	100		
150	153.2	128.5	192.7
115	59.6	50.2	75.4

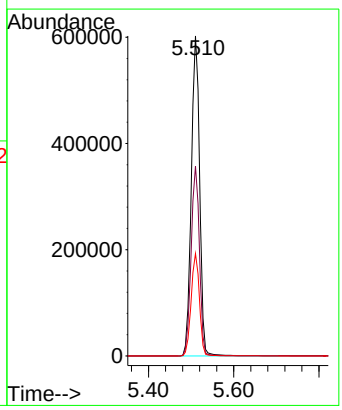


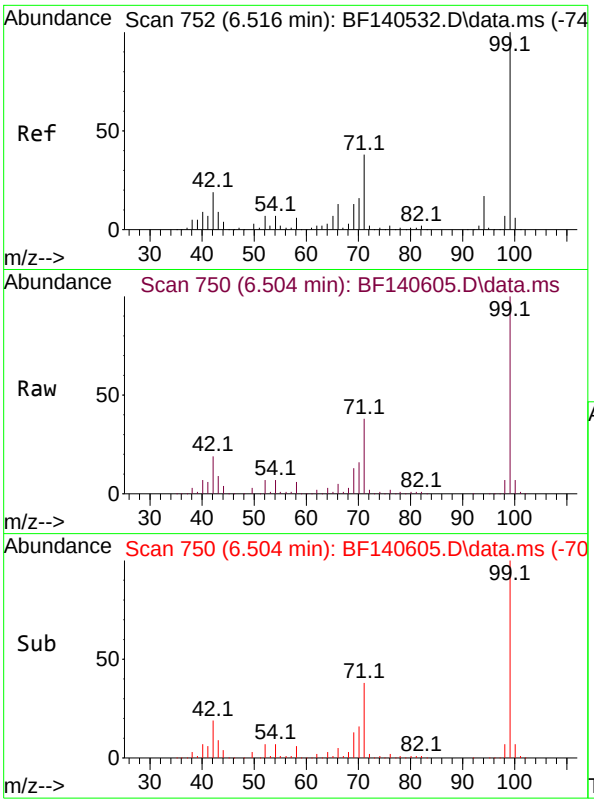


#5
2-Fluorophenol
Concen: 138.210 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Tgt Ion:112 Resp: 817161

Ion	Ratio	Lower	Upper
112	100		
64	59.3	49.2	73.8
63	32.0	27.0	40.4



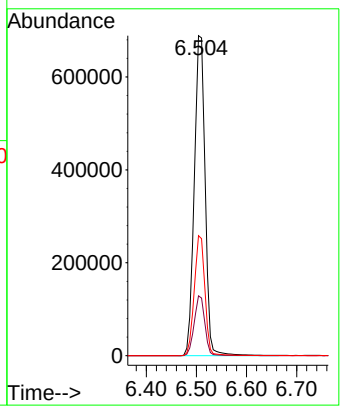


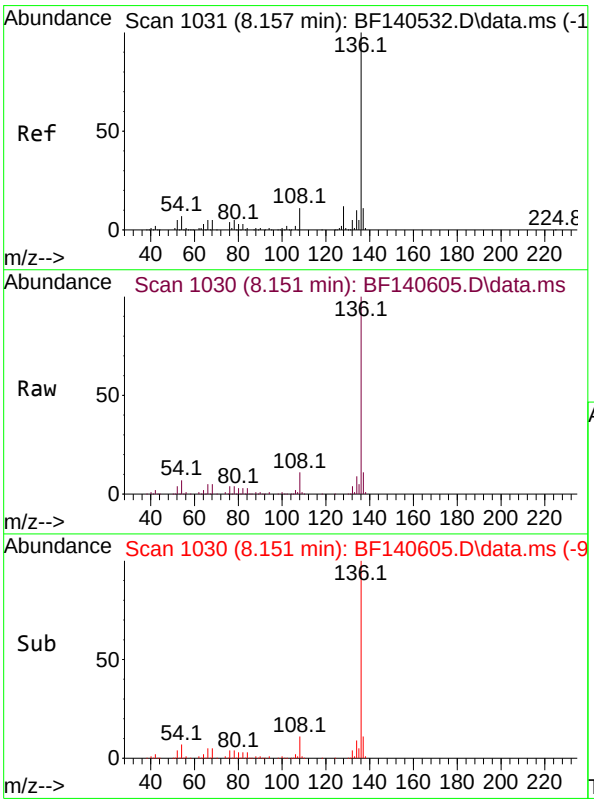
#7
Phenol-d6
Concen: 132.267 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Tgt Ion: 99 Resp: 1033854

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.4	23.0
71	37.5	30.6	46.0

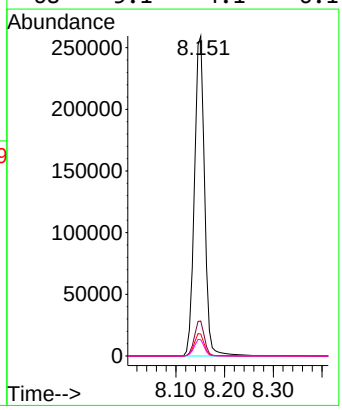


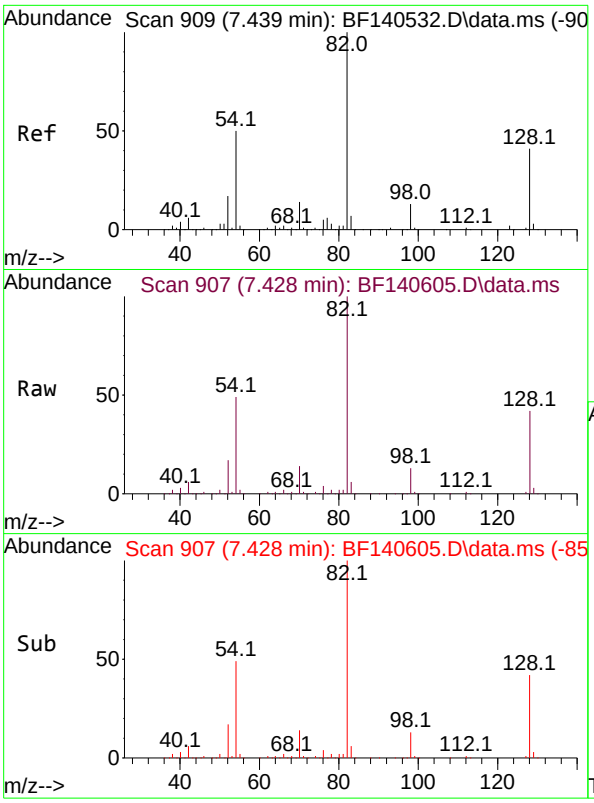


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Tgt Ion:136 Resp: 377922

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	6.8	5.8	8.8
68	5.1	4.1	6.1



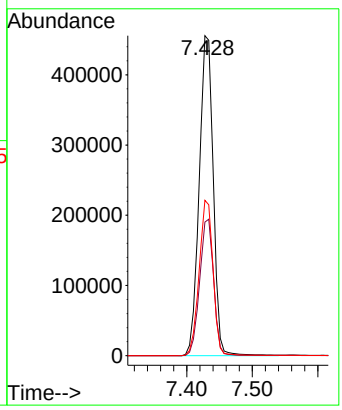


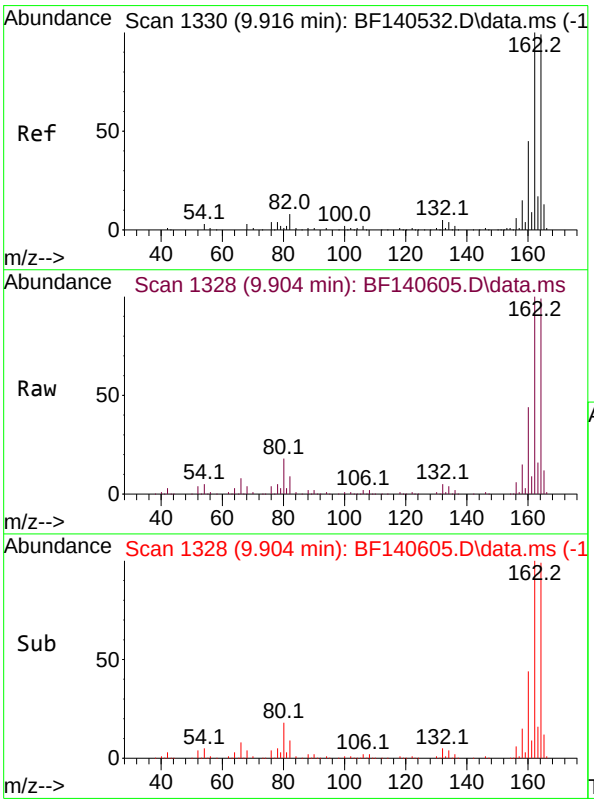
#23
Nitrobenzene-d5
Concen: 92.247 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Tgt Ion: 82 Resp: 681563

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.0	49.4
54	48.5	39.5	59.3

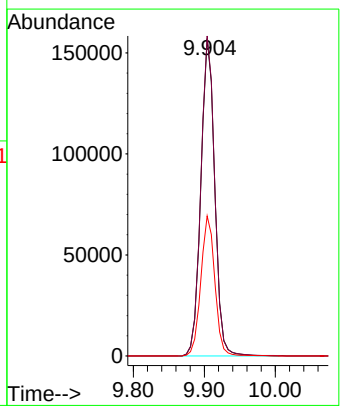


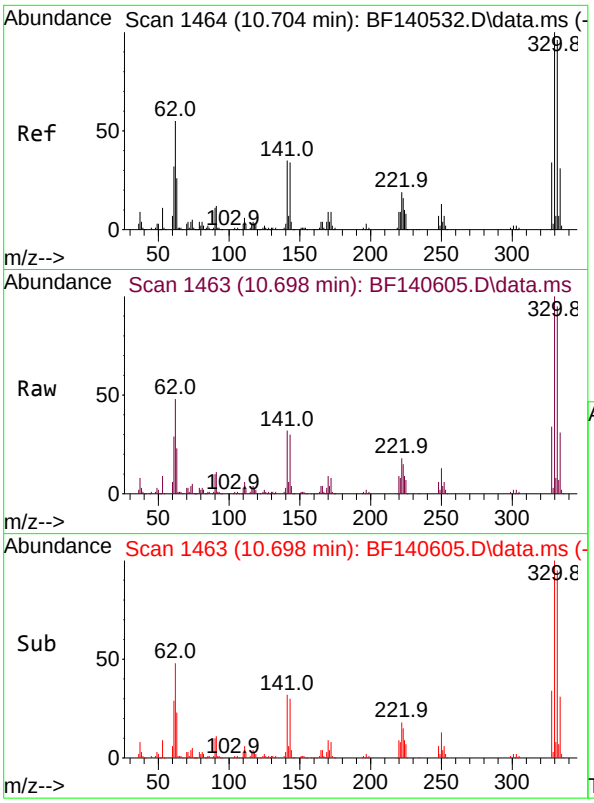


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Tgt Ion:164 Resp: 213827

Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.6	120.8
160	44.1	36.2	54.4



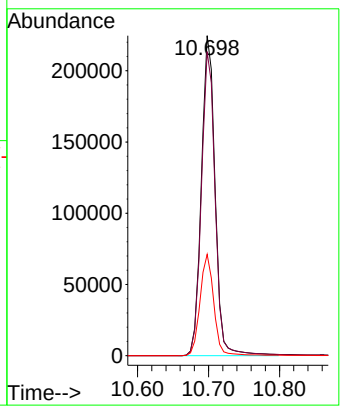


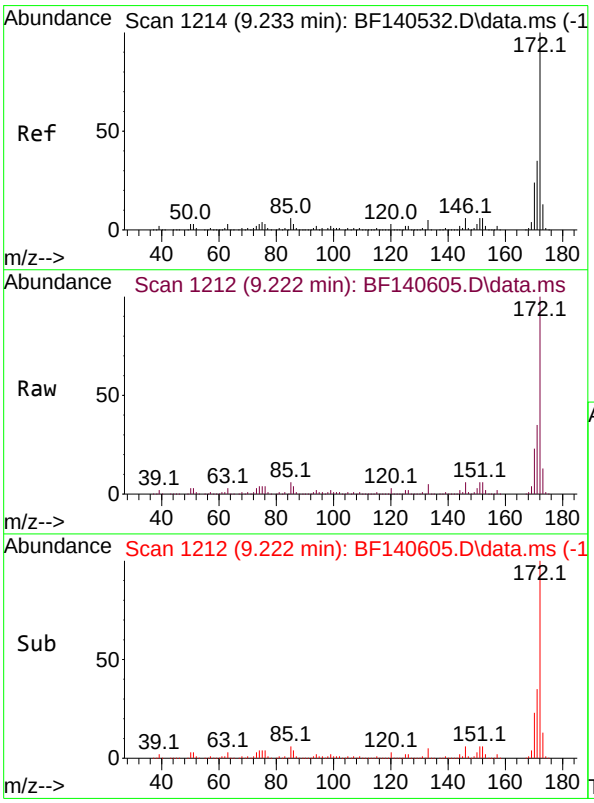
#42
2,4,6-Tribromophenol
Concen: 132.671 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Tgt Ion:330 Resp: 303405

Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.9	115.3
141	31.9	26.7	40.1

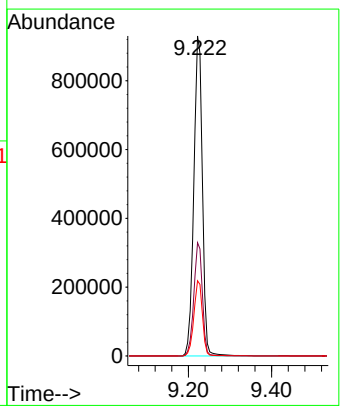


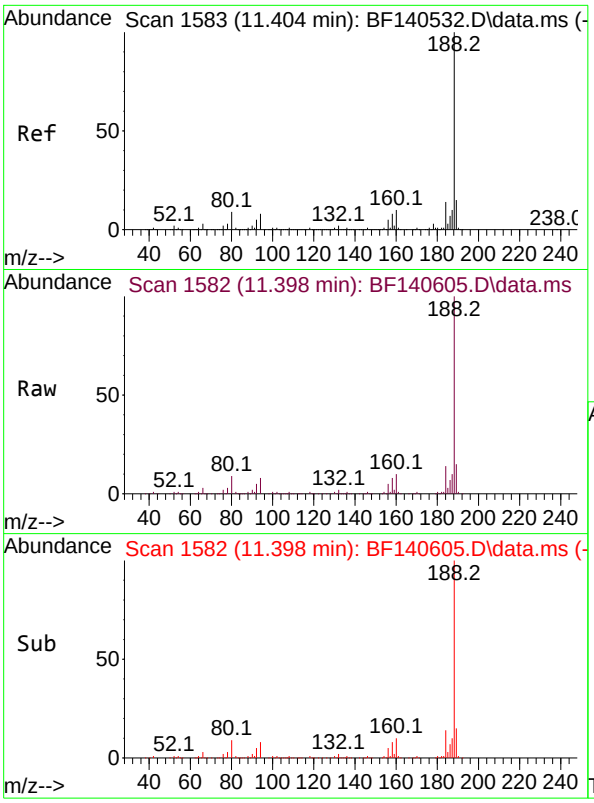


#45
2-Fluorobiphenyl
Concen: 92.912 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Tgt Ion:172 Resp: 1333412

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.4	42.6
170	23.5	19.0	28.6



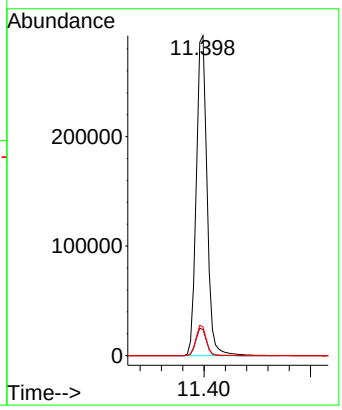


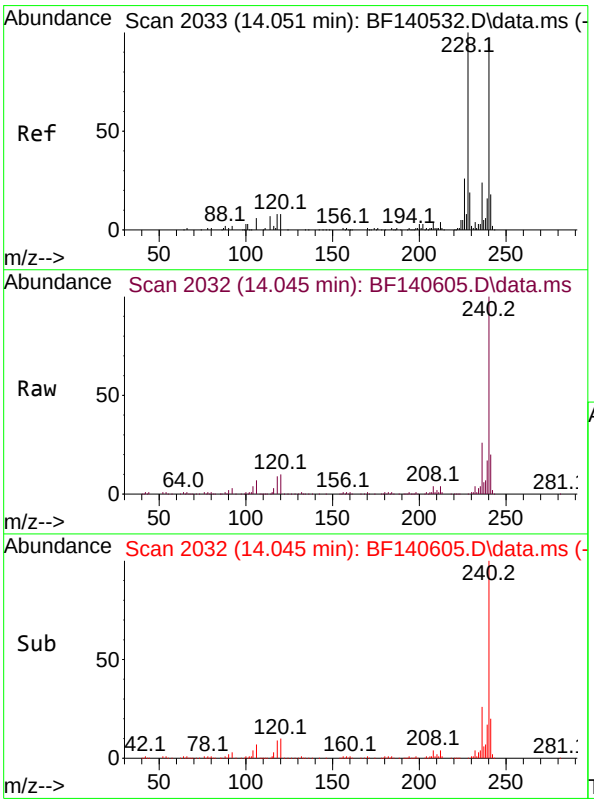
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Tgt Ion:188 Resp: 407609

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.4	9.6
80	9.0	6.9	10.3

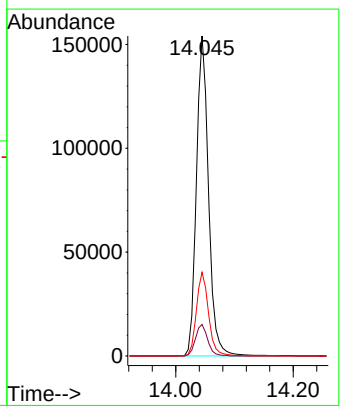


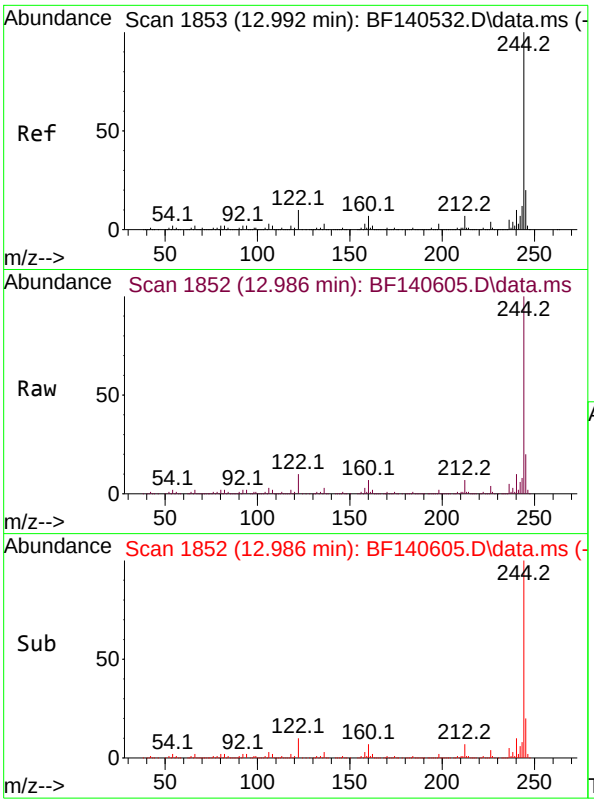


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Tgt Ion:240 Resp: 220442

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.3	10.9
236	26.2	20.6	31.0



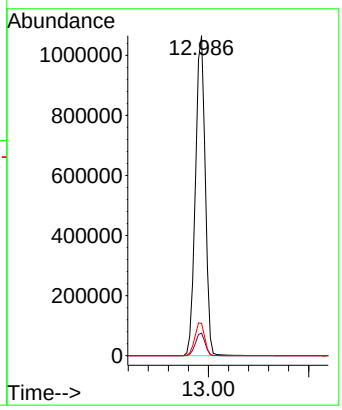


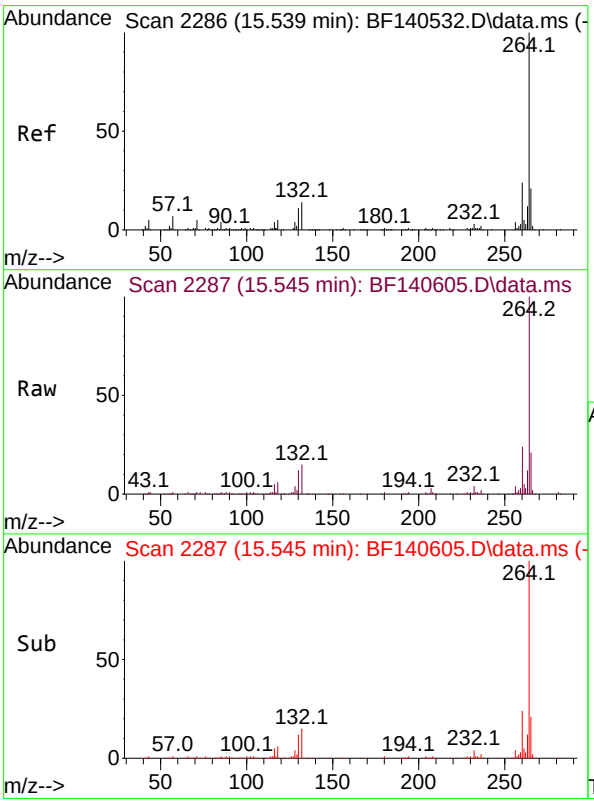
#79
Terphenyl-d14
Concen: 101.578 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Instrument :
BNA_F
ClientSampleId :
PB165052BL

Tgt Ion:244 Resp: 1438039

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

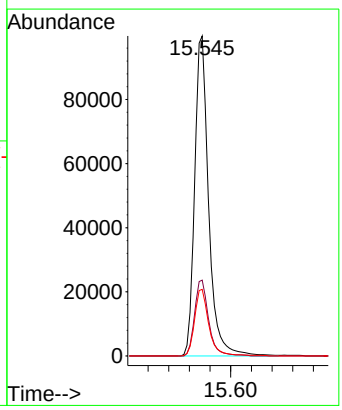




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2287
Delta R.T. 0.006 min
Lab File: BF140605.D
Acq: 25 Nov 2024 16:17

Tgt Ion:264 Resp: 187220

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	20.8	16.6	25.0



Raw Data: **BF140596.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:	PB165052BS	SDG No.:	P4871
Lab Sample ID:	PB165052BS	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
BF140596.D	1	11/18/24 08:35	11/25/24 12:09	PB165052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	49.3		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	49.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.2		1.20	10.0	ug/L
67-72-1	Hexachloroethane	46.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	44.6		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.9		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	48.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	47.2		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.7		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	46.6		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	136		10 - 139	91%	SPK: 150
13127-88-3	Phenol-d6	133		10 - 134	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.2		49 - 133	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.1		52 - 132	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		44 - 137	95%	SPK: 150
1718-51-0	Terphenyl-d14	89.0		48 - 125	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	94700	6.869			
1146-65-2	Naphthalene-d8	366000	8.151			
15067-26-2	Acenaphthene-d10	205000	9.91			
1517-22-2	Phenanthrene-d10	399000	11.398			
1719-03-5	Chrysene-d12	259000	14.057			
1520-96-3	Perylene-d12	208000	15.556			

Raw Data: **BF140596.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:	PB165052BS			SDG No.:	P4871		
Lab Sample ID:	PB165052BS			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
BF140596.D	1	11/18/24 08:35	11/25/24 12:09	PB165052

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 : BF140596.D
Acq On : 25 Nov 2024 12:09
Operator : RC/JU
Sample : PB165052BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165052BS

Quant Time: Nov 25 12:46:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	94726	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	366046	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	205183	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	398573	20.000	ng		0.00
76) Chrysene-d12	14.057	240	258584	20.000	ng		0.00
86) Perylene-d12	15.556	264	208347	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	756007	136.172	ng		0.01
7) Phenol-d6	6.510	99	979612	133.468	ng		0.00
23) Nitrobenzene-d5	7.433	82	645713	90.230	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	313544	142.881	ng		0.00
45) 2-Fluorobiphenyl	9.227	172	1254898	91.125	ng		0.00
79) Terphenyl-d14	12.986	244	1477713	88.984	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.757	88	100849	43.204	ng		99
3) Pyridine	3.510	79	253212	49.302	ng		99
4) n-Nitrosodimethylamine	3.463	42	138917	46.021	ng		96
6) Aniline	6.534	93	240370	46.529	ng	#	83
8) 2-Chlorophenol	6.663	128	297398	49.791	ng		95
9) Benzaldehyde	6.422	77	24334	6.263	ng		96
10) Phenol	6.528	94	368743	49.194	ng		100
11) bis(2-Chloroethyl)ether	6.604	93	281375	49.055	ng		99
12) 1,3-Dichlorobenzene	6.810	146	309838	46.165	ng		100
13) 1,4-Dichlorobenzene	6.886	146	316384	46.557	ng		99
14) 1,2-Dichlorobenzene	7.039	146	302660	47.530	ng		99
15) Benzyl Alcohol	7.016	79	270625	49.719	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.139	45	346674	51.160	ng		92
17) 2-Methylphenol	7.128	107	236220	49.405	ng		98
18) Hexachloroethane	7.381	117	117424	46.265	ng		99
19) n-Nitroso-di-n-propyla...	7.281	70	213187	49.147	ng		98
20) 3+4-Methylphenols	7.281	107	302644	49.246	ng		99
22) Acetophenone	7.281	105	410095	45.954	ng		99
24) Nitrobenzene	7.451	77	329888	44.602	ng		100
25) Isophorone	7.692	82	584836	48.997	ng		100
26) 2-Nitrophenol	7.769	139	160221	48.882	ng		97
27) 2,4-Dimethylphenol	7.804	122	239741	61.132	ng		99
28) bis(2-Chloroethoxy)met...	7.898	93	346950	47.713	ng		99
29) 2,4-Dichlorophenol	8.016	162	251849	48.465	ng		99
30) 1,2,4-Trichlorobenzene	8.092	180	265460	44.741	ng		99
31) Naphthalene	8.175	128	877292	46.529	ng		99
32) Benzoic acid	7.939	122	148326	44.143	ng		98
33) 4-Chloroaniline	8.222	127	132563	23.483	ng		99
34) Hexachlorobutadiene	8.286	225	176592	44.935	ng		99
35) Caprolactam	8.592	113	76309m	47.451	ng		
36) 4-Chloro-3-methylphenol	8.716	107	282412	48.540	ng		98
37) 2-Methylnaphthalene	8.863	142	583040	48.686	ng		99
38) 1-Methylnaphthalene	8.963	142	533669	45.463	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	278940	46.438	ng		99
41) Hexachlorocyclopentadiene	9.016	237	252382	177.179	ng		97
43) 2,4,6-Trichlorophenol	9.145	196	180800	47.968	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140596.D
Acq On : 25 Nov 2024 12:09
Operator : RC/JU
Sample : PB165052BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165052BS

Quant Time: Nov 25 12:46:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

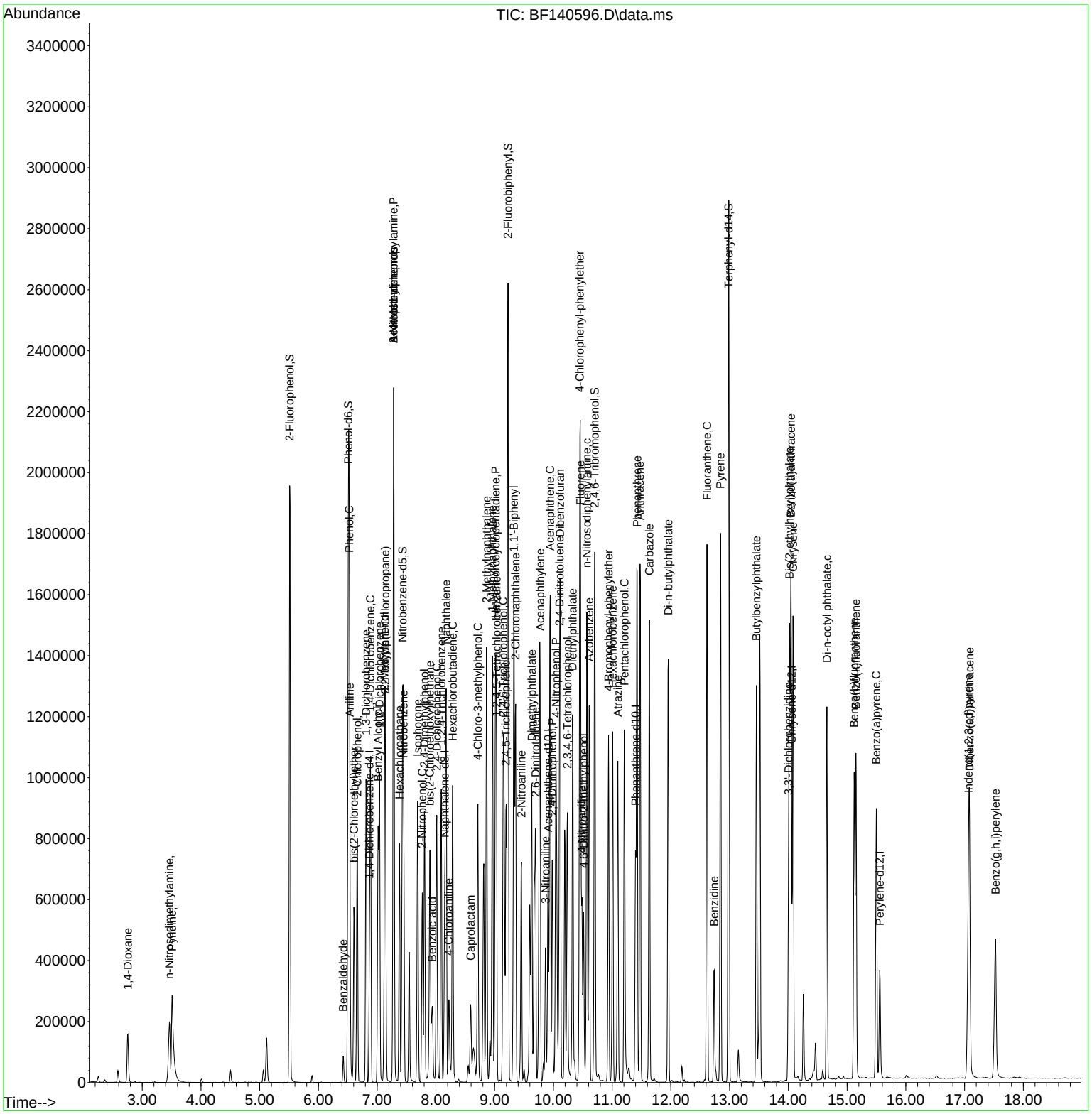
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	193273	47.248	ng	98
46) 1,1'-Biphenyl	9.327	154	727107	47.464	ng	100
47) 2-Chloronaphthalene	9.357	162	537936	46.343	ng	99
48) 2-Nitroaniline	9.457	65	182806	49.065	ng	96
49) Acenaphthylene	9.774	152	900067	51.320	ng	99
50) Dimethylphthalate	9.633	163	667957	49.430	ng	100
51) 2,6-Dinitrotoluene	9.698	165	142243	46.413	ng	95
52) Acenaphthene	9.945	154	544588	48.869	ng	98
53) 3-Nitroaniline	9.869	138	98268	32.784	ng	93
54) 2,4-Dinitrophenol	9.980	184	139414	87.068	ng	98
55) Dibenzofuran	10.116	168	817080	48.070	ng	100
56) 4-Nitrophenol	10.045	139	201877	98.754	ng	94
57) 2,4-Dinitrotoluene	10.104	165	198497	48.733	ng	98
58) Fluorene	10.463	166	647307	47.444	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	170684	54.292	ng	94
60) Diethylphthalate	10.327	149	670493	48.835	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	318742	47.604	ng	97
62) 4-Nitroaniline	10.486	138	152840	48.617	ng	95
63) Azobenzene	10.610	77	635929	48.910	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	103247	50.693	ng	98
66) n-Nitrosodiphenylamine	10.569	169	561659	47.651	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	197713	48.168	ng	96
68) Hexachlorobenzene	11.010	284	221512	46.606	ng	99
69) Atrazine	11.098	200	190550	57.466	ng	98
70) Pentachlorophenol	11.210	266	211014	100.875	ng	100
71) Phenanthrene	11.427	178	955175	49.855	ng	99
72) Anthracene	11.474	178	954897	50.952	ng	99
73) Carbazole	11.633	167	882457	48.946	ng	99
74) Di-n-butylphthalate	11.957	149	1038777	49.906	ng	99
75) Fluoranthene	12.615	202	1041789	50.082	ng	99
77) Benzidine	12.739	184	230497	30.659	ng	99
78) Pyrene	12.845	202	1070546	44.775	ng	100
80) Butylbenzylphthalate	13.457	149	421568	48.945	ng	98
81) Benzo(a)anthracene	14.045	228	840130	49.081	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	162909	31.699	ng	98
83) Chrysene	14.080	228	767340	49.026	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	555180	51.047	ng	98
85) Di-n-octyl phthalate	14.657	149	833480	56.077	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	606353	44.658	ng	98
88) Benzo(b)fluoranthene	15.121	252	675959	51.653	ng	99
89) Benzo(k)fluoranthene	15.151	252	565486	49.379	ng	99
90) Benzo(a)pyrene	15.498	252	564395	53.042	ng	99
91) Dibenzo(a,h)anthracene	17.086	278	500105	44.975	ng	99
92) Benzo(g,h,i)perylene	17.527	276	452329	39.863	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140596.D
Acq On : 25 Nov 2024 12:09
Operator : RC/JU
Sample : PB165052BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165052BS

Quant Time: Nov 25 12:46:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Raw Data: **BF140465.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:	11/14/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	TP-1MS	SDG No.:	P4871
Lab Sample ID:	P4848-02MS	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
BF140465.D	1	11/18/24 08:35	11/19/24 11:36	PB165052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	320		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	400		8.40	50.0	ug/L
95-48-7	2-Methylphenol	500		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	510		11.5	100	ug/L
67-72-1	Hexachloroethane	400		10.1	50.0	ug/L
98-95-3	Nitrobenzene	460		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	430		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	530		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	530		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	530		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	140		10 - 139	93%	SPK: 150
13127-88-3	Phenol-d6	136		10 - 134	91%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		49 - 133	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.0		52 - 132	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		44 - 137	106%	SPK: 150
1718-51-0	Terphenyl-d14	110		48 - 125	110%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	149000	6.875			
1146-65-2	Naphthalene-d8	566000	8.151			
15067-26-2	Acenaphthene-d10	313000	9.91			
1517-22-2	Phenanthrene-d10	585000	11.404			
1719-03-5	Chrysene-d12	348000	14.057			
1520-96-3	Perylene-d12	308000	15.568			

Raw Data: **BF140465.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:	11/14/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	TP-1MS	SDG No.:	P4871
Lab Sample ID:	P4848-02MS	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
BF140465.D	1	11/18/24 08:35	11/19/24 11:36	PB165052

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\BF111924\
Data File : BF140465.D
Acq On : 19 Nov 2024 11:36
Operator : RC/JU
Sample : P4848-02MS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Nov 19 12:09:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	148608	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	566127	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	313272	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	585294	20.000	ng		0.00
76) Chrysene-d12	14.057	240	347810	20.000	ng		0.00
86) Perylene-d12	15.568	264	308234	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.522	112	1220287	140.201	ng		0.03
7) Phenol-d6	6.522	99	1602762	135.916	ng		0.02
23) Nitrobenzene-d5	7.439	82	1095061	100.782	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	495187	158.956	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1928677	98.970	ng		0.00
79) Terphenyl-d14	12.986	244	2195898	109.589	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.863	88	160324	41.328	ng	#	81
3) Pyridine	3.575	79	300848	31.546	ng		98
4) n-Nitrosodimethylamine	3.510	42	213311	44.255	ng		98
6) Aniline	6.545	93	198126	19.314	ng	#	11
8) 2-Chlorophenol	6.669	128	469987	50.268	ng		96
9) Benzaldehyde	6.428	77	9932	1.405	ng		98
10) Phenol	6.534	94	568115	45.683	ng		95
11) bis(2-Chloroethyl)ether	6.610	93	484622	51.431	ng		98
12) 1,3-Dichlorobenzene	6.816	146	411932	39.932	ng		100
13) 1,4-Dichlorobenzene	6.892	146	418312	39.992	ng		99
14) 1,2-Dichlorobenzene	7.045	146	414326	42.668	ng		98
15) Benzyl Alcohol	7.022	79	440652	51.866	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	583985	44.869	ng		57
17) 2-Methylphenol	7.134	107	387748	50.414	ng	#	93
18) Hexachloroethane	7.386	117	154785	40.028	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	340451	47.802	ng		99
20) 3+4-Methylphenols	7.287	107	486185	50.546	ng		91
22) Acetophenone	7.281	105	624692	47.444	ng		98
24) Nitrobenzene	7.457	77	514776	45.503	ng		99
25) Isophorone	7.692	82	965292	50.127	ng		100
26) 2-Nitrophenol	7.769	139	255797	50.954	ng		99
27) 2,4-Dimethylphenol	7.810	122	405039m	63.020	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	583729	49.435	ng		99
29) 2,4-Dichlorophenol	8.016	162	415180	52.269	ng		99
30) 1,2,4-Trichlorobenzene	8.092	180	390055	44.107	ng		100
31) Naphthalene	8.175	128	1338834	46.619	ng		100
32) Benzoic acid	7.945	122	307936	54.449	ng		97
33) 4-Chloroaniline	8.239	127	96753	9.687	ng		99
34) Hexachlorobutadiene	8.286	225	242301	43.003	ng		99
35) Caprolactam	8.604	113	120807m	45.760	ng		
36) 4-Chloro-3-methylphenol	8.722	107	462551	52.548	ng		98
37) 2-Methylnaphthalene	8.869	142	912299	49.542	ng		99
38) 1-Methylnaphthalene	8.963	142	845840	46.906	ng		100
40) 1,2,4,5-Tetrachloroben...	9.033	216	423136	48.844	ng		99
41) Hexachlorocyclopentadiene	9.016	237	423058	190.202	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	301306	52.998	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140465.D
Acq On : 19 Nov 2024 11:36
Operator : RC/JU
Sample : P4848-02MS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Nov 19 12:09:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

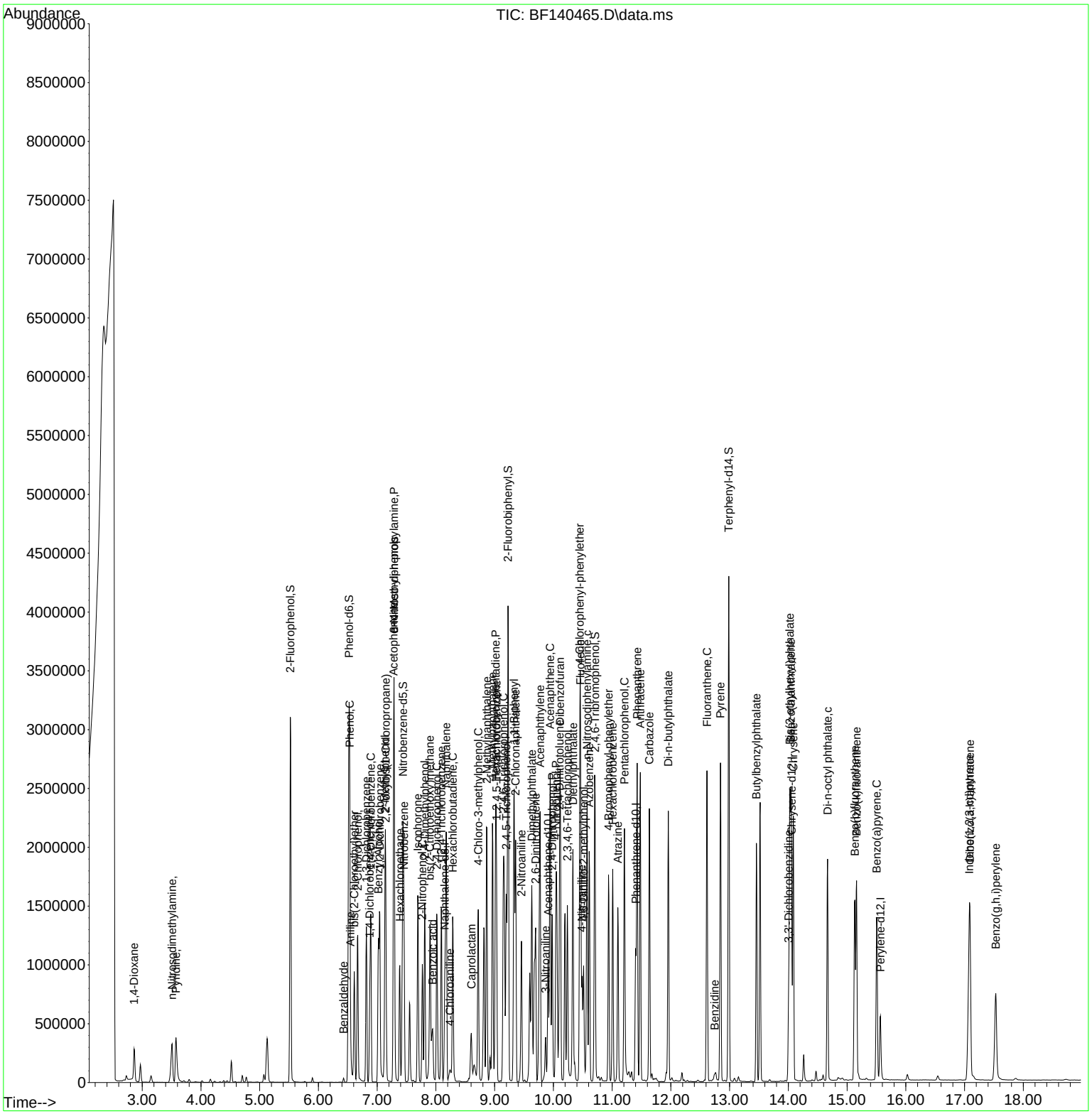
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	322774	51.928	ng	99
46) 1,1'-Biphenyl	9.333	154	1140532	50.044	ng	99
47) 2-Chloronaphthalene	9.357	162	852646	49.113	ng	100
48) 2-Nitroaniline	9.457	65	297074	51.597	ng	98
49) Acenaphthylene	9.775	152	1423604	54.198	ng	99
50) Dimethylphthalate	9.633	163	1094789	53.615	ng	100
51) 2,6-Dinitrotoluene	9.698	165	237696	51.061	ng	98
52) Acenaphthene	9.945	154	1035841m	58.386	ng	
53) 3-Nitroaniline	9.869	138	91881	18.794	ng	100
54) 2,4-Dinitrophenol	9.980	184	283674	118.170	ng	98
55) Dibenzofuran	10.116	168	1297440	51.660	ng	100
56) 4-Nitrophenol	10.045	139	354789	99.494	ng	99
57) 2,4-Dinitrotoluene	10.104	165	322670	52.667	ng	98
58) Fluorene	10.463	166	1001510	50.478	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	281966	57.452	ng	99
60) Diethylphthalate	10.333	149	1083309	51.883	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	497647	50.806	ng	98
62) 4-Nitroaniline	10.486	138	226725	45.357	ng	100
63) Azobenzene	10.610	77	1061785	51.467	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	188887	59.983	ng	97
66) n-Nitrosodiphenylamine	10.575	169	889356	52.590	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	309440	52.890	ng	99
68) Hexachlorobenzene	11.010	284	346067	52.571	ng	97
69) Atrazine	11.098	200	254923	49.825	ng	99
70) Pentachlorophenol	11.210	266	379019	106.888	ng	98
71) Phenanthrene	11.427	178	1438855	52.333	ng	100
72) Anthracene	11.480	178	1465226	54.376	ng	100
73) Carbazole	11.633	167	1349540	50.722	ng	100
74) Di-n-butylphthalate	11.957	149	1659537	51.968	ng	99
75) Fluoranthene	12.616	202	1574134	51.031	ng	100
77) Benzidine	12.745	184	45876	3.437	ng	98
78) Pyrene	12.845	202	1597064	53.682	ng	99
80) Butylbenzylphthalate	13.457	149	660343	57.779	ng	99
81) Benzo(a)anthracene	14.045	228	1225212	53.599	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	202214	27.831	ng	99
83) Chrysene	14.086	228	1146211	54.956	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	877551	57.526	ng	98
85) Di-n-octyl phthalate	14.668	149	1314455	61.181	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	997792	52.404	ng	100
88) Benzo(b)fluoranthene	15.133	252	1018274	50.502	ng	99
89) Benzo(k)fluoranthene	15.162	252	938884	56.999	ng	99
90) Benzo(a)pyrene	15.504	252	902932	57.666	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	806817	51.263	ng	99
92) Benzo(g,h,i)perylene	17.533	276	744822	46.290	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140465.D
Acq On : 19 Nov 2024 11:36
Operator : RC/JU
Sample : P4848-02MS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Nov 19 12:09:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



Raw Data: **BF140466.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:	11/14/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	TP-1MSD	SDG No.:	P4871
Lab Sample ID:	P4848-02MSD	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
BF140466.D	1	11/18/24 08:35	11/19/24 12:02	PB165052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	320		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	410		8.40	50.0	ug/L
95-48-7	2-Methylphenol	510		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	520		11.5	100	ug/L
67-72-1	Hexachloroethane	410		10.1	50.0	ug/L
98-95-3	Nitrobenzene	460		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	440		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	550		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	540		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	144		10 - 139	96%	SPK: 150
13127-88-3	Phenol-d6	138		10 - 134	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	104		49 - 133	104%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		52 - 132	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		44 - 137	106%	SPK: 150
1718-51-0	Terphenyl-d14	113		48 - 125	113%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	148000	6.875			
1146-65-2	Naphthalene-d8	562000	8.151			
15067-26-2	Acenaphthene-d10	312000	9.91			
1517-22-2	Phenanthrene-d10	573000	11.398			
1719-03-5	Chrysene-d12	332000	14.063			
1520-96-3	Perylene-d12	279000	15.58			

Raw Data: **BF140466.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:	11/14/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/14/24
Client Sample ID:	TP-1MSD	SDG No.:	P4871
Lab Sample ID:	P4848-02MSD	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
BF140466.D	1	11/18/24 08:35	11/19/24 12:02	PB165052

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\BF111924\
Data File : BF140466.D
Acq On : 19 Nov 2024 12:02
Operator : RC/JU
Sample : P4848-02MSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Nov 19 12:33:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	147727	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	561678	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	311833	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	573421	20.000	ng		0.00
76) Chrysene-d12	14.063	240	332365	20.000	ng		0.01
86) Perylene-d12	15.580	264	278980	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.522	112	1246803	144.102	ng		0.03
7) Phenol-d6	6.522	99	1620758	138.262	ng		0.02
23) Nitrobenzene-d5	7.439	82	1116789	103.596	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	492692	158.885	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1946766	100.359	ng		0.00
79) Terphenyl-d14	12.986	244	2165816	113.111	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.875	88	156406	40.559	ng	#	84
3) Pyridine	3.581	79	305420	32.216	ng		100
4) n-Nitrosodimethylamine	3.516	42	214816	44.833	ng		97
6) Aniline	6.545	93	176570	17.315	ng	#	8
8) 2-Chlorophenol	6.663	128	478212	51.453	ng		99
9) Benzaldehyde	6.428	77	11104	1.580	ng		98
10) Phenol	6.534	94	566421	45.819	ng		95
11) bis(2-Chloroethyl)ether	6.610	93	478552	51.090	ng		98
12) 1,3-Dichlorobenzene	6.816	146	416080	40.575	ng		99
13) 1,4-Dichlorobenzene	6.892	146	423806	40.758	ng		99
14) 1,2-Dichlorobenzene	7.039	146	412164	42.698	ng		99
15) Benzyl Alcohol	7.022	79	438680	51.942	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	590071	45.607	ng		58
17) 2-Methylphenol	7.134	107	393128	51.418	ng	#	92
18) Hexachloroethane	7.381	117	156492	40.711	ng		97
19) n-Nitroso-di-n-propyla...	7.287	70	344554	48.667	ng		99
20) 3+4-Methylphenols	7.287	107	497318	52.012	ng		93
22) Acetophenone	7.281	105	638503	48.877	ng		98
24) Nitrobenzene	7.457	77	518128	46.162	ng		99
25) Isophorone	7.692	82	977146	51.144	ng		100
26) 2-Nitrophenol	7.769	139	258689	51.938	ng		99
27) 2,4-Dimethylphenol	7.810	122	406942m	63.818	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	594099	50.712	ng		100
29) 2,4-Dichlorophenol	8.016	162	421874	53.533	ng		99
30) 1,2,4-Trichlorobenzene	8.092	180	399116	45.489	ng		99
31) Naphthalene	8.175	128	1352554	47.470	ng		100
32) Benzoic acid	7.945	122	316452	56.398	ng		97
33) 4-Chloroaniline	8.239	127	68727m	6.936	ng		
34) Hexachlorobutadiene	8.286	225	246499	44.095	ng		99
35) Caprolactam	8.604	113	120198m	45.890	ng		
36) 4-Chloro-3-methylphenol	8.722	107	468813	53.681	ng		99
37) 2-Methylnaphthalene	8.863	142	918042	50.248	ng		100
38) 1-Methylnaphthalene	8.963	142	859009	48.014	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	430105	49.878	ng		99
41) Hexachlorocyclopentadiene	9.016	237	423227	191.156	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	308950	54.594	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140466.D
Acq On : 19 Nov 2024 12:02
Operator : RC/JU
Sample : P4848-02MSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Nov 19 12:33:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

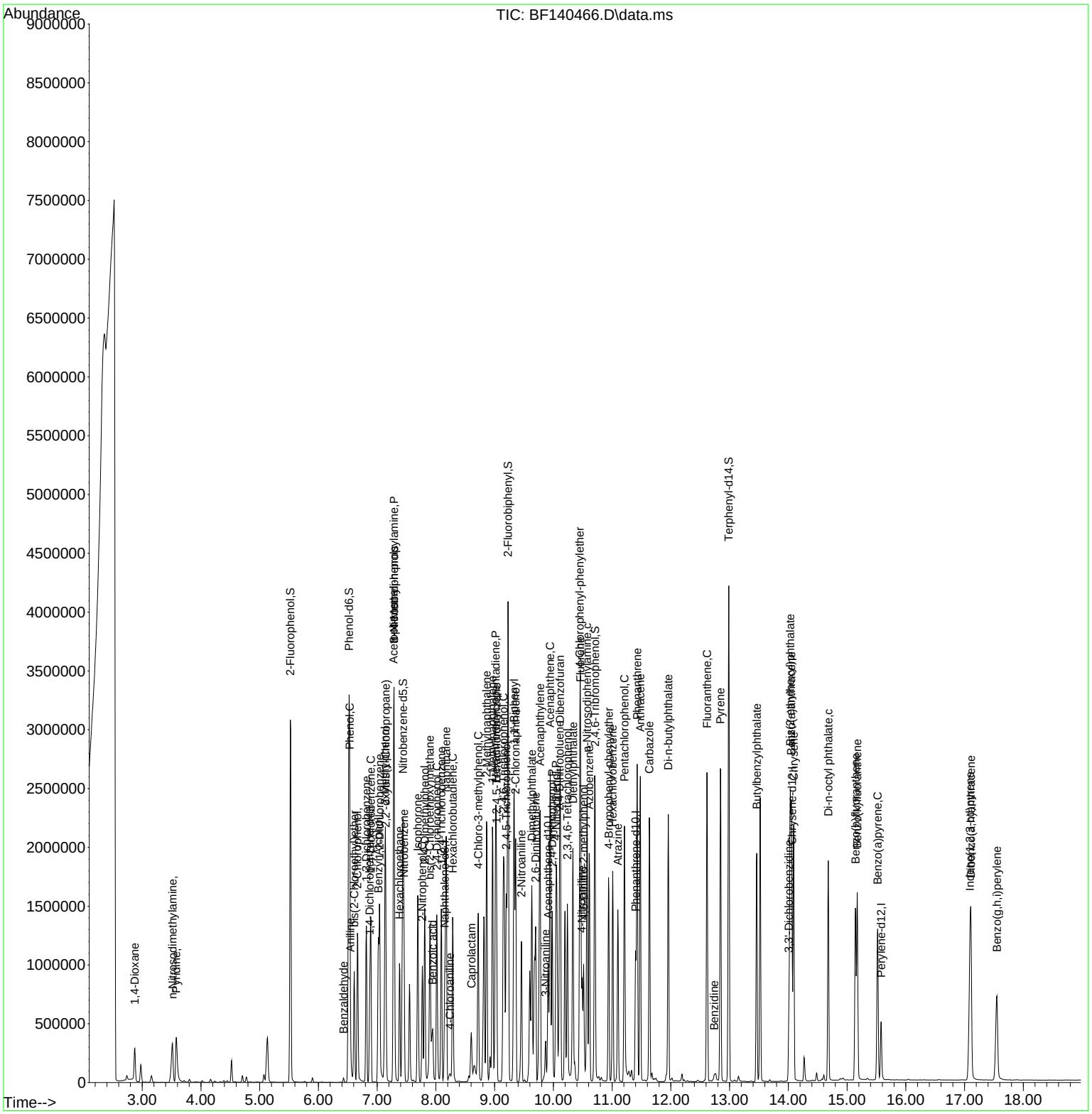
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	323796	52.333	ng	98
46) 1,1'-Biphenyl	9.333	154	1154477	50.890	ng	100
47) 2-Chloronaphthalene	9.357	162	878650	50.844	ng	99
48) 2-Nitroaniline	9.457	65	297459	51.902	ng	99
49) Acenaphthylene	9.775	152	1441643	55.138	ng	100
50) Dimethylphthalate	9.633	163	1104405	54.336	ng	100
51) 2,6-Dinitrotoluene	9.698	165	240132	51.823	ng	97
52) Acenaphthene	9.945	154	1053031m	59.629	ng	
53) 3-Nitroaniline	9.869	138	81674	16.784	ng	97
54) 2,4-Dinitrophenol	9.980	184	303967	127.208	ng	98
55) Dibenzofuran	10.116	168	1298986	51.960	ng	99
56) 4-Nitrophenol	10.045	139	342426	96.471	ng	100
57) 2,4-Dinitrotoluene	10.104	165	326760	53.581	ng	98
58) Fluorene	10.463	166	1000473	50.659	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.239	232	266995	54.652	ng	99
60) Diethylphthalate	10.333	149	1088675	52.381	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	499052	51.184	ng	98
62) 4-Nitroaniline	10.486	138	227000	45.622	ng	99
63) Azobenzene	10.610	77	1056806	51.462	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	188565	61.120	ng	97
66) n-Nitrosodiphenylamine	10.575	169	891791	53.826	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	308097	53.751	ng	98
68) Hexachlorobenzene	11.010	284	347014	53.807	ng	98
69) Atrazine	11.098	200	250580	49.990	ng	99
70) Pentachlorophenol	11.210	266	381086	109.696	ng	98
71) Phenanthrene	11.427	178	1436654	53.334	ng	99
72) Anthracene	11.480	178	1455828	55.145	ng	99
73) Carbazole	11.633	167	1324088	50.795	ng	100
74) Di-n-butylphthalate	11.957	149	1642600	52.502	ng	100
75) Fluoranthene	12.616	202	1534269	50.769	ng	100
77) Benzidine	12.739	184	50672	3.972	ng	99
78) Pyrene	12.845	202	1583066	55.684	ng	100
80) Butylbenzylphthalate	13.463	149	639583	58.563	ng	97
81) Benzo(a)anthracene	14.051	228	1183344	54.173	ng	100
82) 3,3'-Dichlorobenzidine	14.010	252	183818	26.475	ng	100
83) Chrysene	14.092	228	1104867	55.436	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	853491	58.549	ng	98
85) Di-n-octyl phthalate	14.680	149	1272836	61.997	ng	99
87) Indeno(1,2,3-cd)pyrene	17.092	276	944710	54.819	ng	99
88) Benzo(b)fluoranthene	15.145	252	933040	51.127	ng	99
89) Benzo(k)fluoranthene	15.174	252	907592	60.877	ng	99
90) Benzo(a)pyrene	15.521	252	846252	59.713	ng	99
91) Dibenzo(a,h)anthracene	17.109	278	777055	54.549	ng	100
92) Benzo(g,h,i)perylene	17.551	276	715799	49.152	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
Data File : BF140466.D
Acq On : 19 Nov 2024 12:02
Operator : RC/JU
Sample : P4848-02MSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Nov 19 12:33:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



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Manual Integration Report

Sequence:	BF111324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF140333.D	Benzoic acid	yogesh	11/14/2024 3:08:33 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	2,3,4,6-Tetrachlorophenol	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	Benzoic acid	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC080	BF140339.D	Caprolactam	yogesh	11/14/2024 3:08:41 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf111824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140443.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:35 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
SSTDCCC040	BF140456.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:45 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf111924	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140463.D	2,4-Dimethylphenol	yogesh	11/20/2024 7:04:10 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software
P4848-02MS	BF140465.D	2,4-Dimethylphenol	yogesh	11/20/2024 7:04:12 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software
P4848-02MS	BF140465.D	Acenaphthene	yogesh	11/20/2024 7:04:12 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software
P4848-02MS	BF140465.D	Caprolactam	yogesh	11/20/2024 7:04:12 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software
P4848-02MSD	BF140466.D	2,4-Dimethylphenol	yogesh	11/20/2024 7:04:13 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software
P4848-02MSD	BF140466.D	4-Chloroaniline	yogesh	11/20/2024 7:04:13 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software
P4848-02MSD	BF140466.D	Acenaphthene	yogesh	11/20/2024 7:04:13 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software
P4848-02MSD	BF140466.D	Caprolactam	yogesh	11/20/2024 7:04:13 AM	mohammad	11/20/2024 7:31:21 AM	Peak Integrated by Software

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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	11/22/2024 4:01:03 AM	Peak Integrated by Software
SSTDICC020	BF140531.D	Acenaphthene	yogesh	11/22/2024 3:53:19 AM	mohammad	11/22/2024 4:01:03 AM	Peak Integrated by Software
SSTDICCC040	BF140532.D	Acenaphthene	yogesh	11/22/2024 3:53:21 AM	mohammad	11/22/2024 4:01:03 AM	Peak Integrated by Software
SSTDICV040	BF140536.D	Acenaphthene	yogesh	11/22/2024 3:53:22 AM	mohammad	11/22/2024 4:01:03 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:53:24 AM	mohammad	11/22/2024 4:01:03 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	Acenaphthene	yogesh	11/22/2024 3:53:24 AM	mohammad	11/22/2024 4:01:03 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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM				
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM				
SubDirectory	BF111324	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140331.D	13 Nov 2024 08:35	RC/JU	Ok
2	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01	RC/JU	Ok
3	SSTDICC005	BF140333.D	13 Nov 2024 09:27	RC/JU	Ok,M
4	SSTDICC010	BF140334.D	13 Nov 2024 09:53	RC/JU	Ok,M
5	SSTDICC020	BF140335.D	13 Nov 2024 10:29	RC/JU	Ok
6	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	RC/JU	Not Ok
7	SSTDICC050	BF140337.D	13 Nov 2024 11:21	RC/JU	Ok
8	SSTDICC060	BF140338.D	13 Nov 2024 11:47	RC/JU	Ok
9	SSTDICC080	BF140339.D	13 Nov 2024 12:13	RC/JU	Ok,M
10	SSTDICCC040	BF140340.D	13 Nov 2024 12:48	RC/JU	Ok
11	SSTDICV040	BF140341.D	13 Nov 2024 13:19	RC/JU	Ok
12	PB164401BL	BF140342.D	13 Nov 2024 13:45	RC/JU	Ok
13	P4495-11	BF140343.D	13 Nov 2024 15:25	RC/JU	Dilution
14	P4495-11DL	BF140344.D	13 Nov 2024 16:02	RC/JU	Ok
15	P3845-03	BF140345.D	13 Nov 2024 16:40	RC/JU	Dilution
16	P3845-03DL	BF140346.D	13 Nov 2024 17:06	RC/JU	Ok
17	P3845-06	BF140347.D	13 Nov 2024 17:32	RC/JU	Dilution
18	P3845-06DL	BF140348.D	13 Nov 2024 17:58	RC/JU	Not Ok
19	SP6681	BF140349.D	13 Nov 2024 18:39	RC/JU	Ok,NS

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM				
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM				
SubDirectory	BF111824	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140442.D	18 Nov 2024 09:18	RC/JU	Ok
2	SSTDCCC040	BF140443.D	18 Nov 2024 10:13	RC/JU	Ok,M
3	PB165029BL	BF140444.D	18 Nov 2024 10:39	RC/JU	Ok
4	PB165029BS	BF140445.D	18 Nov 2024 11:05	RC/JU	Ok,M
5	PB164846BS	BF140446.D	18 Nov 2024 11:32	RC/JU	Ok,M
6	PB164846BSD	BF140447.D	18 Nov 2024 11:58	RC/JU	Ok,M
7	PB164940BL	BF140448.D	18 Nov 2024 12:24	RC/JU	Ok
8	PB164940BS	BF140449.D	18 Nov 2024 12:50	RC/JU	Ok,M
9	PB164965BL	BF140450.D	18 Nov 2024 13:16	RC/JU	Ok
10	PB164965BS	BF140451.D	18 Nov 2024 13:43	RC/JU	Ok,M
11	PB164969BS	BF140452.D	18 Nov 2024 14:19	RC/JU	Ok,M
12	PB164969BL	BF140453.D	18 Nov 2024 14:45	RC/JU	Ok
13	PB164880TB	BF140454.D	18 Nov 2024 15:11	RC/JU	Ok
14	DFTPP	BF140455.D	18 Nov 2024 15:48	RC/JU	Ok
15	SSTDCCC040	BF140456.D	18 Nov 2024 16:14	RC/JU	Ok,M
16	PB164944TB	BF140457.D	18 Nov 2024 16:40	RC/JU	Ok
17	P4821-04RE	BF140458.D	18 Nov 2024 17:13	RC/JU	Confirms
18	P4861-01	BF140459.D	18 Nov 2024 17:40	RC/JU	Ok
19	P4871-01	BF140460.D	18 Nov 2024 18:06	RC/JU	Ok
20	P4848-02	BF140461.D	18 Nov 2024 18:32	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111924

Review By	yogesh	Review On	11/20/2024 7:05:01 AM				
Supervise By	mohammad	Supervise On	11/20/2024 7:31:21 AM				
SubDirectory	BF111924	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140462.D	19 Nov 2024 09:32	RC/JU	Ok
2	SSTDCCC040	BF140463.D	19 Nov 2024 10:34	RC/JU	Ok,M
3	PB165019TB	BF140464.D	19 Nov 2024 11:00	RC/JU	Ok
4	P4848-02MS	BF140465.D	19 Nov 2024 11:36	RC/JU	Ok,M
5	P4848-02MSD	BF140466.D	19 Nov 2024 12:02	RC/JU	Ok,M
6	P4870-04	BF140467.D	19 Nov 2024 12:28	RC/JU	Ok
7	P4852-01	BF140468.D	19 Nov 2024 12:54	RC/JU	Ok,M
8	P4852-02	BF140469.D	19 Nov 2024 13:21	RC/JU	Ok,M
9	P4852-03	BF140470.D	19 Nov 2024 13:47	RC/JU	Ok,M
10	P4852-03MS	BF140471.D	19 Nov 2024 14:13	RC/JU	Ok,M
11	P4852-03MSD	BF140472.D	19 Nov 2024 14:39	RC/JU	Ok,M
12	P4771-05	BF140473.D	19 Nov 2024 15:06	RC/JU	Ok,M
13	P4771-07	BF140474.D	19 Nov 2024 15:32	RC/JU	Ok,M
14	P4889-03	BF140475.D	19 Nov 2024 15:58	RC/JU	Ok,M
15	P4869-01	BF140476.D	19 Nov 2024 16:24	RC/JU	Ok
16	P4870-01	BF140477.D	19 Nov 2024 16:51	RC/JU	Ok
17	P4857-03	BF140478.D	19 Nov 2024 17:17	RC/JU	Ok,M
18	P4889-05	BF140479.D	19 Nov 2024 17:43	RC/JU	Dilution
19	P4889-01	BF140480.D	19 Nov 2024 18:10	RC/JU	Ok,M
20	P4849-01	BF140481.D	19 Nov 2024 18:36	RC/JU	Ok,M
21	P4768-03	BF140482.D	19 Nov 2024 19:02	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111924

Review By	yogesh	Review On	11/20/2024 7:05:01 AM				
Supervise By	mohammad	Supervise On	11/20/2024 7:31:21 AM				
SubDirectory	BF111924	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4859-01RE	BF140483.D	19 Nov 2024 19:28	RC/JU	Confirms
23	P4908-01	BF140484.D	19 Nov 2024 19:54	RC/JU	Ok
24	P4908-03	BF140485.D	19 Nov 2024 20:20	RC/JU	Ok,M
25	P4768-07	BF140486.D	19 Nov 2024 20:47	RC/JU	Ok

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	11/22/2024 4:01:03 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	11/22/2024 4:01:03 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,NS
31	P4916-09MSD	BF140556.D	22 Nov 2024 00:28	RC/JU	Ok,NS
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,NS
37	P4929-01	BF140562.D	22 Nov 2024 03:06	RC/JU	Ok,NS

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By		Review On			
Supervise By		Supervise On			
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,NR
3	PB165123TB	BF140591.D	25 Nov 2024 09:59	RC/JU	Ok
4	PB165155BS	BF140592.D	25 Nov 2024 10:25	RC/JU	Ok,NR
5	PB165155BL	BF140593.D	25 Nov 2024 10:51	RC/JU	Ok
6	PB165086BS	BF140594.D	25 Nov 2024 11:17	RC/JU	Not Ok
7	PB165111TB	BF140595.D	25 Nov 2024 11:43	RC/JU	Ok
8	PB165052BS	BF140596.D	25 Nov 2024 12:09	RC/JU	Ok,NR
9	PB164986TB	BF140597.D	25 Nov 2024 12:36	RC/JU	Ok
10	PB165152BS	BF140598.D	25 Nov 2024 13:02	RC/JU	Ok,NR
11	PB164886TB	BF140599.D	25 Nov 2024 13:27	RC/JU	Ok
12	PB165152BSD	BF140600.D	25 Nov 2024 13:54	RC/JU	Ok,NR
13	PB165152BL	BF140601.D	25 Nov 2024 14:28	RC/JU	Ok
14	PB165185BS	BF140602.D	25 Nov 2024 14:54	RC/JU	Ok,NR
15	DFTPP	BF140603.D	25 Nov 2024 15:23	RC/JU	Ok
16	SSTDCCC040	BF140604.D	25 Nov 2024 15:49	RC/JU	Ok,NR
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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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By		Review On			
Supervise By		Supervise On			
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,NR
26	P4892-03MSD	BF140614.D	25 Nov 2024 20:18	RC/JU	Ok,NR
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,NR
37	P4954-01MS	BF140625.D	26 Nov 2024 01:06	RC/JU	Ok,NR
38	P4954-01MSD	BF140626.D	26 Nov 2024 01:32	RC/JU	Ok,NR
39	P4954-03	BF140627.D	26 Nov 2024 01:58	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/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	BF140331.D	13 Nov 2024 08:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140333.D	13 Nov 2024 09:27	Compound#41,54,77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF140334.D	13 Nov 2024 09:53		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140335.D	13 Nov 2024 10:29		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	Injection Error	RC/JU	Not Ok
7	SSTDICC050	SSTDICC050	BF140337.D	13 Nov 2024 11:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140338.D	13 Nov 2024 11:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140339.D	13 Nov 2024 12:13	Compound#09 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICCC040	SSTDICCC040	BF140340.D	13 Nov 2024 12:48		RC/JU	Ok
11	SSTDICV040	ICVBF111324	BF140341.D	13 Nov 2024 13:19		RC/JU	Ok
12	PB164401BL	PB164401BL	BF140342.D	13 Nov 2024 13:45		RC/JU	Ok
13	P4495-11	PT-BNA-SOIL	BF140343.D	13 Nov 2024 15:25	PT Sample, Need 5X Dilution	RC/JU	Dilution
14	P4495-11DL	PT-BNA-SOILDL	BF140344.D	13 Nov 2024 16:02		RC/JU	Ok
15	P3845-03	PT-BN-WP	BF140345.D	13 Nov 2024 16:40	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution
16	P3845-03DL	PT-BN-WPDL	BF140346.D	13 Nov 2024 17:06		RC/JU	Ok
17	P3845-06	PT-ACIDS-WP	BF140347.D	13 Nov 2024 17:32	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3845-06DL	PT-ACIDS-WPDL	BF140348.D	13 Nov 2024 17:58	Dilution not matching (Low results)	RC/JU	Not Ok
19	SP6681	SP6681	BF140349.D	13 Nov 2024 18:39	8270-625.1 SPIKE SOLUTION	RC/JU	Ok,NS

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM		
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM		
SubDirectory	BF111824	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/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	BF140442.D	18 Nov 2024 09:18		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140443.D	18 Nov 2024 10:13		RC/JU	Ok,M
3	PB165029BL	PB165029BL	BF140444.D	18 Nov 2024 10:39		RC/JU	Ok
4	PB165029BS	PB165029BS	BF140445.D	18 Nov 2024 11:05		RC/JU	Ok,M
5	PB164846BS	PB164846BS	BF140446.D	18 Nov 2024 11:32		RC/JU	Ok,M
6	PB164846BSD	PB164846BSD	BF140447.D	18 Nov 2024 11:58		RC/JU	Ok,M
7	PB164940BL	PB164940BL	BF140448.D	18 Nov 2024 12:24		RC/JU	Ok
8	PB164940BS	PB164940BS	BF140449.D	18 Nov 2024 12:50		RC/JU	Ok,M
9	PB164965BL	PB164965BL	BF140450.D	18 Nov 2024 13:16		RC/JU	Ok
10	PB164965BS	PB164965BS	BF140451.D	18 Nov 2024 13:43		RC/JU	Ok,M
11	PB164969BS	PB164969BS	BF140452.D	18 Nov 2024 14:19		RC/JU	Ok,M
12	PB164969BL	PB164969BL	BF140453.D	18 Nov 2024 14:45		RC/JU	Ok
13	PB164880TB	PB164880TB	BF140454.D	18 Nov 2024 15:11		RC/JU	Ok
14	DFTPP	DFTPP	BF140455.D	18 Nov 2024 15:48		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140456.D	18 Nov 2024 16:14		RC/JU	Ok,M
16	PB164944TB	PB164944TB	BF140457.D	18 Nov 2024 16:40		RC/JU	Ok
17	P4821-04RE	BP-F-24RE	BF140458.D	18 Nov 2024 17:13	Surrogate Fail	RC/JU	Confirms
18	P4861-01	WC-11-A-202411	BF140459.D	18 Nov 2024 17:40		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM		
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM		
SubDirectory	BF111824	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4871-01	WC-10-A-202411	BF140460.D	18 Nov 2024 18:06		RC/JU	Ok
20	P4848-02	TP-1	BF140461.D	18 Nov 2024 18:32		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111924

Review By	yogesh	Review On	11/20/2024 7:05:01 AM		
Supervise By	mohammad	Supervise On	11/20/2024 7:31:21 AM		
SubDirectory	BF111924	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/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	BF140462.D	19 Nov 2024 09:32		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140463.D	19 Nov 2024 10:34		RC/JU	Ok,M
3	PB165019TB	PB165019TB	BF140464.D	19 Nov 2024 11:00		RC/JU	Ok
4	P4848-02MS	TP-1MS	BF140465.D	19 Nov 2024 11:36		RC/JU	Ok,M
5	P4848-02MSD	TP-1MSD	BF140466.D	19 Nov 2024 12:02		RC/JU	Ok,M
6	P4870-04	MH-735	BF140467.D	19 Nov 2024 12:28		RC/JU	Ok
7	P4852-01	COMP-1	BF140468.D	19 Nov 2024 12:54		RC/JU	Ok,M
8	P4852-02	COMP-2	BF140469.D	19 Nov 2024 13:21		RC/JU	Ok,M
9	P4852-03	COMP-3	BF140470.D	19 Nov 2024 13:47		RC/JU	Ok,M
10	P4852-03MS	COMP-3MS	BF140471.D	19 Nov 2024 14:13		RC/JU	Ok,M
11	P4852-03MSD	COMP-3MSD	BF140472.D	19 Nov 2024 14:39		RC/JU	Ok,M
12	P4771-05	P-1	BF140473.D	19 Nov 2024 15:06		RC/JU	Ok,M
13	P4771-07	P-2	BF140474.D	19 Nov 2024 15:32		RC/JU	Ok,M
14	P4889-03	#72-11978	BF140475.D	19 Nov 2024 15:58		RC/JU	Ok,M
15	P4869-01	EO-02-11152024	BF140476.D	19 Nov 2024 16:24		RC/JU	Ok
16	P4870-01	TP-1	BF140477.D	19 Nov 2024 16:51		RC/JU	Ok
17	P4857-03	VNJ-226	BF140478.D	19 Nov 2024 17:17		RC/JU	Ok,M
18	P4889-05	#72-11930	BF140479.D	19 Nov 2024 17:43	Need 5X Dilution	RC/JU	Dilution

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111924

Review By	yogesh	Review On	11/20/2024 7:05:01 AM		
Supervise By	mohammad	Supervise On	11/20/2024 7:31:21 AM		
SubDirectory	BF111924	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4889-01	VNJ-228	BF140480.D	19 Nov 2024 18:10		RC/JU	Ok,M
20	P4849-01	RR-1	BF140481.D	19 Nov 2024 18:36		RC/JU	Ok,M
21	P4768-03	B-3-3	BF140482.D	19 Nov 2024 19:02		RC/JU	Ok
22	P4859-01RE	NB-08-111424RE	BF140483.D	19 Nov 2024 19:28	Fax is already given	RC/JU	Confirms
23	P4908-01	SP-1	BF140484.D	19 Nov 2024 19:54		RC/JU	Ok
24	P4908-03	SP-2	BF140485.D	19 Nov 2024 20:20		RC/JU	Ok,M
25	P4768-07	B-6-3	BF140486.D	19 Nov 2024 20:47		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	11/22/2024 4:01:03 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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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	11/22/2024 4:01:03 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,NS
31	P4916-09MSD	TP-3-WCMSD	BF140556.D	22 Nov 2024 00:28		RC/JU	Ok,NS
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

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	11/22/2024 4:01:03 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,NS
37	P4929-01	ARS520	BF140562.D	22 Nov 2024 03:06	Internal Standard Fail	RC/JU	Ok,NS

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By		Review On			
Supervise By		Supervise On			
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,NR
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,NR
5	PB165155BL	PB165155BL	BF140593.D	25 Nov 2024 10:51		RC/JU	Ok
6	PB165086BS	PB165086BS	BF140594.D	25 Nov 2024 11:17	Recovery fail high for compound #72,90	RC/JU	Not Ok
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,NR
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,NR
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,NR
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,NR
15	DFTPP	DFTPP	BF140603.D	25 Nov 2024 15:23		RC/JU	Ok
16	SSTDCCC040	SSTDCCC040	BF140604.D	25 Nov 2024 15:49	CCC fail high side for compound #77	RC/JU	Ok,NR
17	PB165052BL	PB165052BL	BF140605.D	25 Nov 2024 16:17		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 # BF112524

Review By		Review On			
Supervise By		Supervise On			
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	

18	P4947-01	A3988	BF140606.D	25 Nov 2024 16:49		RC/JU	Ok
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,NR
26	P4892-03MSD	WB-310-BOTMSD	BF140614.D	25 Nov 2024 20:18		RC/JU	Ok,NR
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,NR

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By		Review On			
Supervise By		Supervise On			
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	

37	P4954-01MS	TR-05-112124MS	BF140625.D	26 Nov 2024 01:06	Internal Standard Fail	RC/JU	Ok,NR
38	P4954-01MSD	TR-05-112124MSD	BF140626.D	26 Nov 2024 01:32	Internal Standard Fail	RC/JU	Ok,NR
39	P4954-03	TR-06-112124	BF140627.D	26 Nov 2024 01:58	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165019

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 : JP

Filter By : N/A

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 : IR

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
N/A	N/A	N/A
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. P4861-01 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11-16-24 11:00	JP /TCLP Room	JP. RJ/Det Dig.
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165019

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
P4861-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.2	1.5	N/A
P4871-01	WC-10-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.2	1.5	N/A
P4890-01	#3711	N/A	N/A	N/A	N/A	N/A	N/A	6.4	1.0	N/A
P4890-02	D3617	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
P4890-03	D3690	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165019TB	LEB019	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4861-01	WC-11-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
P4871-01	WC-10-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
P4890-01	#3711	N/A	N/A	N/A	N/A	N/A	N/A
P4890-02	D3617	N/A	N/A	N/A	N/A	N/A	N/A
P4890-03	D3690	N/A	N/A	N/A	N/A	N/A	N/A
PB165019TB	LEB019	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp water p4861 **WorkList ID :** 185491 **Department :** TCLP Extraction **Date :** 11-15-2024 15:13:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4861-01	WC-11-A-202411	Water	TCLP Extraction	Cool 4 deg C	AECO02	L41	11/13/2024	1311
P4871-01	WC-10-A-202411	Water	TCLP Extraction	Cool 4 deg C	AECO02	M11	11/13/2024	1311
P4890-01	#3711	Water	TCLP Extraction	Cool 4 deg C	PSEG03	M11	11/15/2024	1311
P4890-02	D3617	Water	TCLP Extraction	Cool 4 deg C	PSEG03	M11	11/15/2024	1311
P4890-03	D3690	Water	TCLP Extraction	Cool 4 deg C	PSEG03	M11	11/15/2024	1311
~~P4890-04~~	~~D3721~~	~~Water~~	~~TCLP Extraction~~	~~Cool 4 deg C~~	~~PSEG03~~	~~M11~~	~~11/15/2024~~	~~1311~~

18 18

Date/Time 11.15.24 18 17:10

Raw Sample Received by: 80 WQC

Raw Sample Relinquished by: J. C (SM)

Date/Time 11.15.24 18.40

Raw Sample Received by: J. C (SM)

Raw Sample Relinquished by: 80 WQC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165052

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/18/2024
Matrix :	Water			**Extraction Start Time :**	08:35
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	11/18/2024
Balance check:	RJ	**Filter By:**	RS	**Extraction End Time :**	13:35
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,5,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	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

Extraction Conformance/Non-Conformance Comments:

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

KD Bath ID:	Water bath -01,02	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/18/24	RP (Ext. Lab)	AC/SVOC
13:40	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165052

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 11/18/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164986TB	PB164986TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-1
PB165019TB	PB165019TB	TCLP BNA	100	6	RUPESH	ritesh	1			2
PB165052BL	PB165052BL	TCLP BNA	1000	6	RUPESH	ritesh	1			3
PB165052BS	PB165052BS	TCLP BNA	1000	6	RUPESH	ritesh	1			4
P4848-02	TP-1	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
P4848-02MS	TP-1MS	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
P4848-02MSD	TP-1MSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
P4849-02	RR-1	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
P4861-01	WC-11-A-202411	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
P4870-13	TP-1	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
P4870-14	MH-735	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
P4870-15	MH-736	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
P4870-16	TP-15	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
P4871-01	WC-10-A-202411	TCLP BNA	100	6	RUPESH	ritesh	1	A		14
P4887-02	MH-739	TCLP BNA	100	6	RUPESH	ritesh	1	A		15
P4887-06	MH-760	TCLP BNA	100	6	RUPESH	ritesh	1	A		16

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

11/18/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB165019

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
P4861-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.2	1.5	N/A
P4871-01	WC-10-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.2	1.5	N/A
P4890-01	#3711	N/A	N/A	N/A	N/A	N/A	N/A	6.4	1.0	N/A
P4890-02	D3617	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
P4890-03	D3690	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165019TB	LEB019	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A

11/6/2024

11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164986

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
P4848-02	TP-1	01	100.03	2000	N/A	N/A	N/A	8.6	1.5	T-1
P4849-02	RR-1	02	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4870-13	TP-1	03	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4870-14	MH-735	04	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4870-15	MH-736	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4870-16	TP-15	06	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-1
P4887-02	MH-739	07	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-1
P4887-06	MH-760	08	100.04	2000	N/A	N/A	N/A	7.2	1.0	T-1
PB164986TB	LEB986	09	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

11/16/2024

11:00

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. P4871
QUOTE NO.
COC Number 2041713

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:
CITY → SAME 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
3 TCLP ICP Metals
4 TCLP Mercury
5 Paint Filter
6 Reactive Cyanide
7 Reactive Sulfide
8 pH
9 TCLP Pesticide
PCB + Flashpoint

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1. B2406004	WC-10-A-20241	GW	X		11/13/24	1500	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Hannah Dwyer	11/14/24 1200	1. 1326 11-14-24
2.		2.
3.	11-14-24 1830	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °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