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Cover Page

Order ID : Q2333

Project ID : RFK Bridge RMB-Randall Island

Client : LiRo Engineers, Inc.

Lab Sample Number	Client Sample Number
Q2333-01	MW-06
Q2333-02	MW-08
Q2333-03	MW-10
Q2333-04	MW-11
Q2333-05	MW-13
Q2333-06	MW-12

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: 6/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

LiRo Engineers, Inc.
Project Name: RFK Bridge RMB-Randall Island
Project # N/A
Order ID # Q2333
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
6 Water samples were received on 06/13/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

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 samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

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

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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 #: **Q2333**

	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:** **06/21/2025**

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LAB CHRONICLE

OrderID:	Q2333	**OrderDate:**	6/13/2025 3:21:44 PM
Client:	LiRo Engineers, Inc.	**Project:**	RFK Bridge RMB-Randall Island
Contact:	Martin Wesolowski	**Location:**	D51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2333-01	**MW-06**	**Water**			**06/12/25**			**06/13/25**
			SVOCMS Group1	8270E		06/17/25	06/18/25	
Q2333-02	**MW-08**	**Water**			**06/12/25**			**06/13/25**
			SVOCMS Group1	8270E		06/17/25	06/18/25	
Q2333-03	**MW-10**	**Water**			**06/12/25**			**06/13/25**
			SVOCMS Group1	8270E		06/17/25	06/18/25	
Q2333-04	**MW-11**	**Water**			**06/12/25**			**06/13/25**
			SVOCMS Group1	8270E		06/17/25	06/18/25	
Q2333-05	**MW-13**	**Water**			**06/12/25**			**06/13/25**
			SVOCMS Group1	8270E		06/17/25	06/18/25	
Q2333-06	**MW-12**	**Water**			**06/12/25**			**06/13/25**
			SVOCMS Group1	8270E		06/17/25	06/18/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2333

Client: LiRo Engineers, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-06								
Q2333-01	MW-06	WATER	Acenaphthene	2.800	J	0.55	5	ug/L
Q2333-01	MW-06	WATER	Fluoranthene	2.300	J	0.82	5	ug/L
			Total Svoc :	**5.10**				
			Total Concentration:	**5.10**				

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2333

Client: LiRo Engineers, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168509BL	PB168509BL	Nitrobenzene-d5	100	84.1	84		67	132
		2-Fluorobiphenyl	100	81.5	81		52	132
		Terphenyl-d14	100	84.2	84		42	152
PB168509BS	PB168509BS	Nitrobenzene-d5	100	84.7	85		67	132
		2-Fluorobiphenyl	100	85.5	86		52	132
		Terphenyl-d14	100	88.9	89		42	152
PB168509BSD	PB168509BSD	Nitrobenzene-d5	100	79.6	80		67	132
		2-Fluorobiphenyl	100	77.8	78		52	132
		Terphenyl-d14	100	85.9	86		42	152
Q2333-01	MW-06	Nitrobenzene-d5	100	89.1	89		67	132
		2-Fluorobiphenyl	100	84.0	84		52	132
		Terphenyl-d14	100	70.2	70		42	152
Q2333-02	MW-08	Nitrobenzene-d5	100	87.7	88		67	132
		2-Fluorobiphenyl	100	79.7	80		52	132
		Terphenyl-d14	100	81.7	82		42	152
Q2333-03	MW-10	Nitrobenzene-d5	100	87.3	87		67	132
		2-Fluorobiphenyl	100	81.9	82		52	132
		Terphenyl-d14	100	69.4	69		42	152
Q2333-04	MW-11	Nitrobenzene-d5	100	91.5	91		67	132
		2-Fluorobiphenyl	100	84.9	85		52	132
		Terphenyl-d14	100	68.3	68		42	152
Q2333-05	MW-13	Nitrobenzene-d5	100	87.3	87		67	132
		2-Fluorobiphenyl	100	84.8	85		52	132
		Terphenyl-d14	100	81.3	81		42	152
Q2333-06	MW-12	Nitrobenzene-d5	100	78.8	79		67	132
		2-Fluorobiphenyl	100	74.6	75		52	132
		Terphenyl-d14	100	75.2	75		42	152

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2333

Client: LiRo Engineers, Inc.

Analytical Method: 8270E **DataFile:** BP024989.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168509BS	Acenaphthylene	50	49.0	ug/L	98				79	103	
	Acenaphthene	50	48.5	ug/L	97				59	113	
	Fluorene	50	48.5	ug/L	97				64	107	
	Phenanthrene	50	47.9	ug/L	96				62	109	
	Anthracene	50	48.9	ug/L	98				65	110	
	Fluoranthene	50	47.8	ug/L	96				64	110	
	Pyrene	50	50.5	ug/L	101				71	103	
	Benzo(a)anthracene	50	49.9	ug/L	100				62	107	
	Chrysene	50	49.8	ug/L	100				61	108	
	Benzo(b)fluoranthene	50	48.3	ug/L	97				77	113	
	Benzo(k)fluoranthene	50	49.9	ug/L	100				77	105	
	Benzo(a)pyrene	50	49.3	ug/L	99				72	131	
	Indeno(1,2,3-cd)pyrene	50	48.5	ug/L	97				72	105	
	Dibenz(a,h)anthracene	50	48.9	ug/L	98				78	115	
	Benzo(g,h,i)perylene	50	47.7	ug/L	95				75	118	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2333

Client: LiRo Engineers, Inc.

Analytical Method: 8270E **DataFile:** BP024990.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168509BSD	Acenaphthylene	50	45.4	ug/L	91	8			79	103	20
	Acenaphthene	50	45.0	ug/L	90	7			59	113	20
	Fluorene	50	44.9	ug/L	90	8			64	107	20
	Phenanthrene	50	46.2	ug/L	92	4			62	109	20
	Anthracene	50	46.6	ug/L	93	5			65	110	20
	Fluoranthene	50	45.7	ug/L	91	4			64	110	20
	Pyrene	50	50.1	ug/L	100	1			71	103	20
	Benzo(a)anthracene	50	47.6	ug/L	95	5			62	107	20
	Chrysene	50	46.0	ug/L	92	8			61	108	20
	Benzo(b)fluoranthene	50	47.7	ug/L	95	1			77	113	20
	Benzo(k)fluoranthene	50	46.5	ug/L	93	7			77	105	20
	Benzo(a)pyrene	50	47.8	ug/L	96	3			72	131	20
	Indeno(1,2,3-cd)pyrene	50	48.2	ug/L	96	1			72	105	20
	Dibenz(a,h)anthracene	50	48.6	ug/L	97	1			78	115	20
	Benzo(g,h,i)perylene	50	48.0	ug/L	96	1			75	118	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168509BL

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG NO.: Q2333

Lab File ID: BP024988.D Lab Sample ID: PB168509BL

Instrument ID: BNA_P Date Extracted: 06/17/2025

Matrix: (soil/water) Water Date Analyzed: 06/18/2025

Level: (low/med) LOW Time Analyzed: 10:36

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168509BS	PB168509BS	BP024989.D	06/18/2025
PB168509BSD	PB168509BSD	BP024990.D	06/18/2025
MW-13	Q2333-05	BP024998.D	06/18/2025
MW-12	Q2333-06	BP024999.D	06/18/2025
MW-08	Q2333-02	BP025000.D	06/18/2025
MW-06	Q2333-01	BF142776.D	06/18/2025
MW-10	Q2333-03	BF142777.D	06/18/2025
MW-11	Q2333-04	BF142778.D	06/18/2025

COMMENTS:

Raw Data: **BF142710.D**

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM SAS No.: Q2333 SDG NO.: Q2333

Lab File ID: BF142710.D DFTPP Injection Date: 06/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 15:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	28.7
70	Less than 2.0% of mass 69	0.1 (0.2) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142712.D	06/10/2025	16:54
SSTDICC005	SSTDICC005	BF142713.D	06/10/2025	17:24
SSTDICC010	SSTDICC010	BF142714.D	06/10/2025	17:53
SSTDICC020	SSTDICC020	BF142715.D	06/10/2025	18:22
SSTDICCC040	SSTDICCC040	BF142716.D	06/10/2025	18:52
SSTDICC050	SSTDICC050	BF142717.D	06/10/2025	19:21
SSTDICC060	SSTDICC060	BF142718.D	06/10/2025	19:50
SSTDICC080	SSTDICC080	BF142719.D	06/10/2025	20:19

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM SAS No.: Q2333 SDG NO.: Q2333

Lab File ID: BF142771.D DFTPP Injection Date: 06/18/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142772.D	06/18/2025	11:48
MW-06	Q2333-01	BF142776.D	06/18/2025	13:49
MW-10	Q2333-03	BF142777.D	06/18/2025	14:19
MW-11	Q2333-04	BF142778.D	06/18/2025	14:49

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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM SAS No.: Q2333 SDG NO.: Q2333

Lab File ID: BP024859.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	84
443	15.0 - 24.0% of mass 442	16.1 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024860.D	06/06/2025	10:30
SSTDICC005	SSTDICC005	BP024861.D	06/06/2025	11:11
SSTDICC010	SSTDICC010	BP024862.D	06/06/2025	11:52
SSTDICC020	SSTDICC020	BP024863.D	06/06/2025	12:33
SSTDICCC040	SSTDICCC040	BP024864.D	06/06/2025	13:14
SSTDICC050	SSTDICC050	BP024865.D	06/06/2025	13:56
SSTDICC060	SSTDICC060	BP024866.D	06/06/2025	14:37
SSTDICC080	SSTDICC080	BP024867.D	06/06/2025	15:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM SAS No.: Q2333 SDG NO.: Q2333

Lab File ID: BP024986.D DFTPP Injection Date: 06/18/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	11.8
442	Greater than 50% of mass 198	76.3
443	15.0 - 24.0% of mass 442	14.6 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024987.D	06/18/2025	09:55
PB168509BL	PB168509BL	BP024988.D	06/18/2025	10:36
PB168509BS	PB168509BS	BP024989.D	06/18/2025	11:17
PB168509BSD	PB168509BSD	BP024990.D	06/18/2025	11:58
MW-13	Q2333-05	BP024998.D	06/18/2025	17:30
MW-12	Q2333-06	BP024999.D	06/18/2025	18:12
MW-08	Q2333-02	BP025000.D	06/18/2025	18:53

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG NO.: Q2333

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/18/2025

Lab File ID: BF142772.D Time Analyzed: 11:48

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	81687	6.887	316375	8.17	173519	9.93
	UPPER LIMIT	163374	7.387	632750	8.669	347038	10.428
	LOWER LIMIT	40843.5	6.387	158188	7.669	86759.5	9.428
	EPA SAMPLE NO.						
01	MW-06	72728	6.88	276703	8.16	148072	9.92
02	MW-10	75516	6.88	279917	8.16	151116	9.92
03	MW-11	72977	6.88	285294	8.16	155201	9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG NO.: Q2333

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/18/2025

Lab File ID: BF142772.D Time Analyzed: 11:48

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	303610	11.416	189006	14.063	179702	15.551
	UPPER LIMIT	607220	11.916	378012	14.563	359404	16.051
	LOWER LIMIT	151805	10.916	94503	13.563	89851	15.051
	EPA SAMPLE NO.						
01	MW-06	243522	11.41	167055	14.06	173007	15.55
02	MW-10	248862	11.41	179367	14.06	176221	15.55
03	MW-11	263148	11.41	182331	14.06	179027	15.55

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

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

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

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Fax : 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG NO.: Q2333

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/18/2025

Lab File ID: BP024987.D Time Analyzed: 09:55

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	287169	7.607	1150640	10.38	726300	14.26
	UPPER LIMIT	574338	8.107	2301280	10.878	1452600	14.76
	LOWER LIMIT	143585	7.107	575320	9.878	363150	13.76
	EPA SAMPLE NO.						
01	MW-08	284799	7.60	1178300	10.37	818800	14.25
02	MW-13	277507	7.61	1098580	10.38	686732	14.25
03	MW-12	259382	7.60	1022680	10.38	715185	14.26
04	PB168509BL	278843	7.61	1046610	10.38	632257	14.26
05	PB168509BS	309420	7.61	1193310	10.38	709072	14.25
06	PB168509BSD	299910	7.60	1166190	10.37	733128	14.25

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.: Q2333 SAS No.: Q2333 SDG NO.: Q2333

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/18/2025

Lab File ID: BP024987.D Time Analyzed: 09:55

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1437450	17.06	1478430	21.501	1736640	24.765
	UPPER LIMIT	2874900	17.56	2956860	22.001	3473280	25.265
	LOWER LIMIT	718725	16.56	739215	21.001	868320	24.265
	EPA SAMPLE NO.						
01	MW-08	1525740	17.06	1584670	21.50	1801580	24.78
02	MW-13	1378050	17.07	1454710	21.50	1598180	24.76
03	MW-12	1282200	17.07	1386220	21.51	1591860	24.78
04	PB168509BL	1245800	17.07	1328390	21.50	1595370	24.77
05	PB168509BS	1338630	17.07	1331590	21.50	1579120	24.78
06	PB168509BSD	1403510	17.07	1366570	21.51	1569190	24.77

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: **BF142776.D**

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Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-06	SDG No.:	Q2333
Lab Sample ID:	Q2333-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF142776.D	1	06/17/25 09:25	06/18/25 13:49	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	5.00	U	0.75	5.00	ug/L
83-32-9	Acenaphthene	2.80	J	0.55	5.00	ug/L
86-73-7	Fluorene	5.00	U	0.63	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	0.50	5.00	ug/L
120-12-7	Anthracene	5.00	U	0.61	5.00	ug/L
206-44-0	Fluoranthene	2.30	J	0.82	5.00	ug/L
129-00-0	Pyrene	5.00	U	0.50	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	0.45	5.00	ug/L
218-01-9	Chrysene	5.00	U	0.44	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	0.69	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	89.1		67 - 132	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.0		52 - 132	84%	SPK: 100
1718-51-0	Terphenyl-d14	70.2		42 - 152	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72700	6.881			
1146-65-2	Naphthalene-d8	277000	8.163			
15067-26-2	Acenaphthene-d10	148000	9.922			
1517-22-2	Phenanthrene-d10	244000	11.41			
1719-03-5	Chrysene-d12	167000	14.057			
1520-96-3	Perylene-d12	173000	15.545			

Raw Data: **BF142776.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-06	SDG No.:	Q2333
Lab Sample ID:	Q2333-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF142776.D	1	06/17/25 09:25	06/18/25 13:49	PB168509

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\BF061825\
Data File : BF142776.D
Acq On : 18 Jun 2025 13:49
Operator : RC/JU
Sample : Q2333-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MW-06

Quant Time: Jun 18 14:10:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

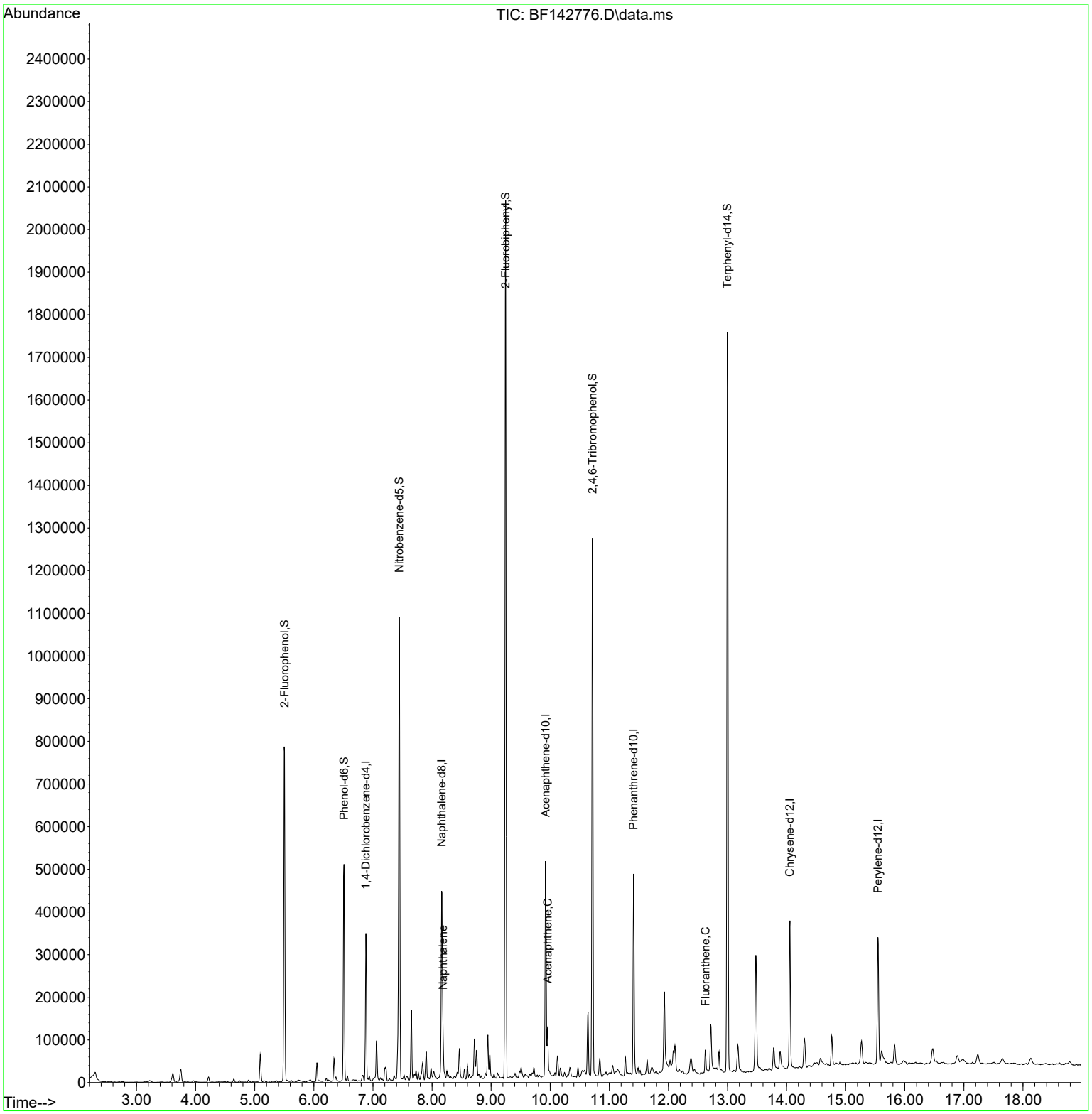
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	72728	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	276703	20.000	ng	-0.02
39) Acenaphthene-d10	9.922	164	148072	20.000	ng	-0.02
64) Phenanthrene-d10	11.410	188	243522	20.000	ng	-0.01
76) Chrysene-d12	14.057	240	167055	20.000	ng	-0.01
86) Perylene-d12	15.545	264	173007	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	300780	70.437	ng	0.00
7) Phenol-d6	6.510	99	224904	44.753	ng	-0.01
23) Nitrobenzene-d5	7.445	82	450633	89.128	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	217630	134.104	ng	-0.01
45) 2-Fluorobiphenyl	9.245	172	935846	83.968	ng	-0.01
79) Terphenyl-d14	12.998	244	854118	70.221	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.186	128	39603	2.894	ng	97
52) Acenaphthene	9.957	154	25223	2.848	ng	99
75) Fluoranthene	12.627	202	27972	2.255	ng	98

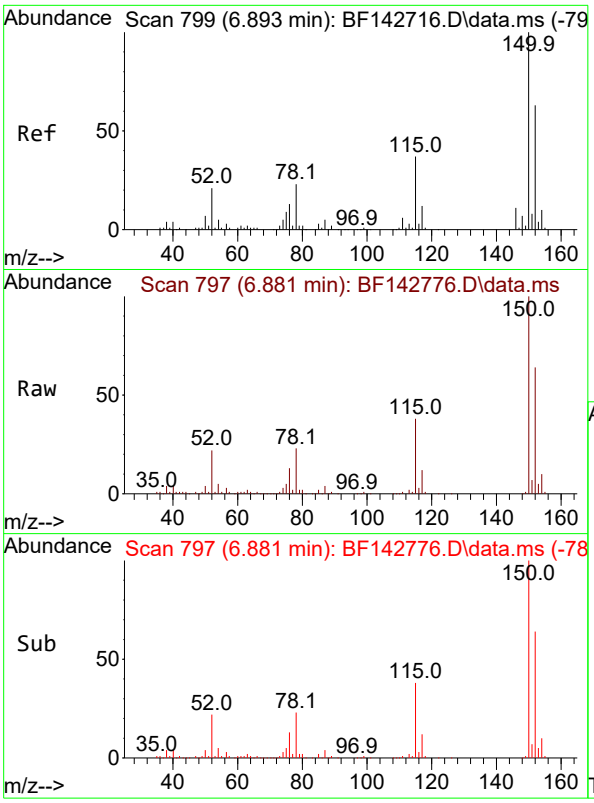
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142776.D
Acq On : 18 Jun 2025 13:49
Operator : RC/JU
Sample : Q2333-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MW-06

Quant Time: Jun 18 14:10:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration



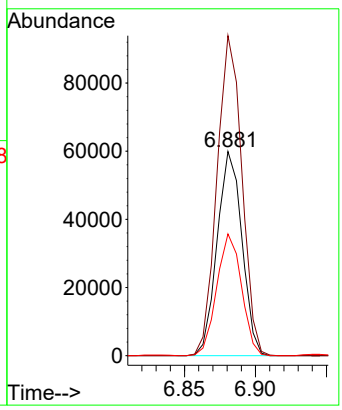


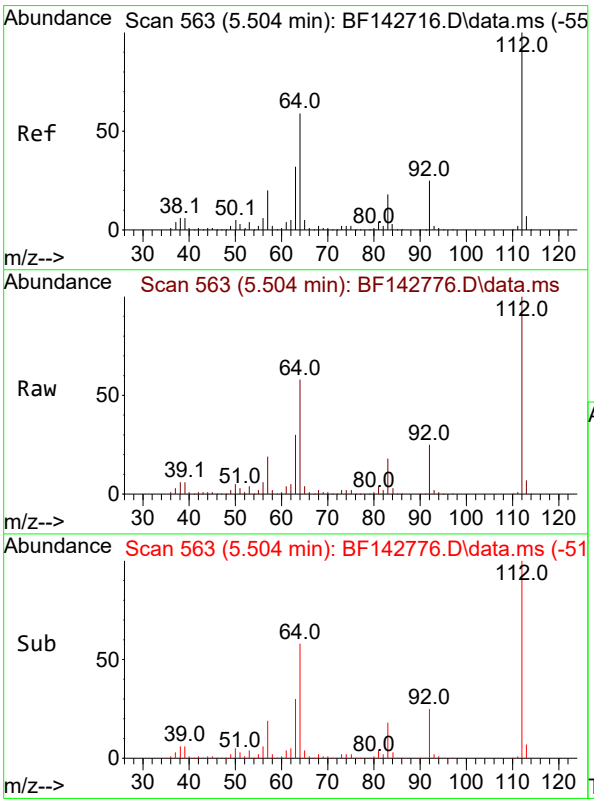
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion:152 Resp: 72728

Ion	Ratio	Lower	Upper
152	100		
150	156.8	126.9	190.3
115	59.7	47.0	70.6

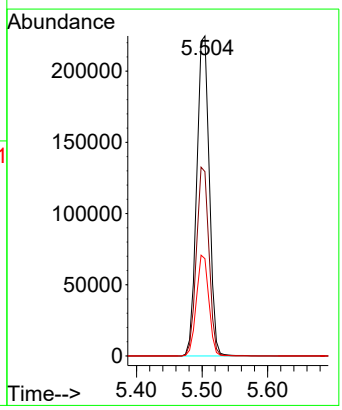


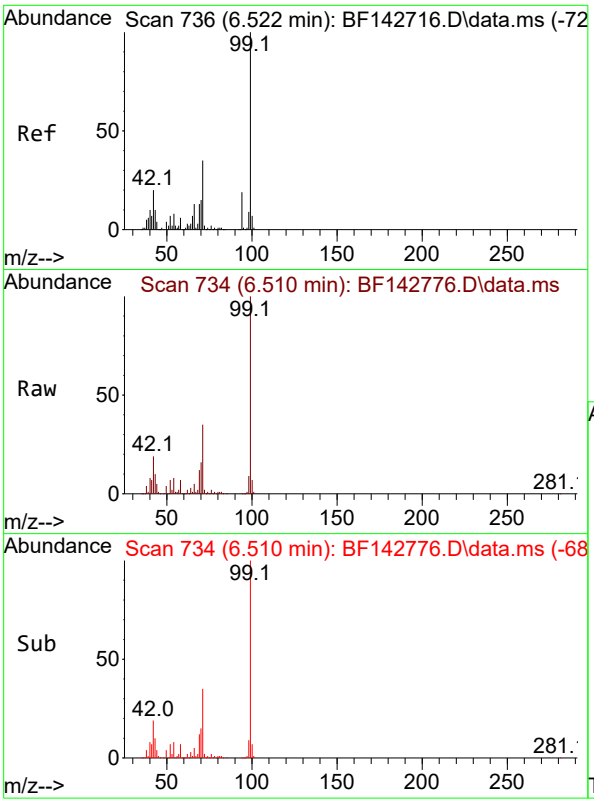


#5
2-Fluorophenol
Concen: 70.437 ng
RT: 5.504 min Scan# 563
Delta R.T. 0.000 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Tgt Ion:112 Resp: 300780

Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.4	71.2
63	30.4	25.4	38.0



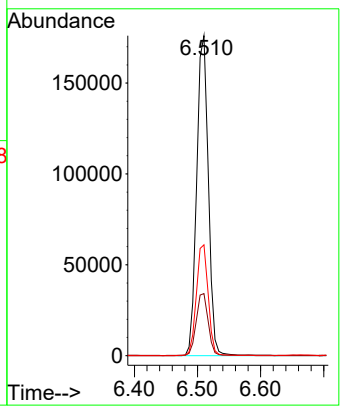


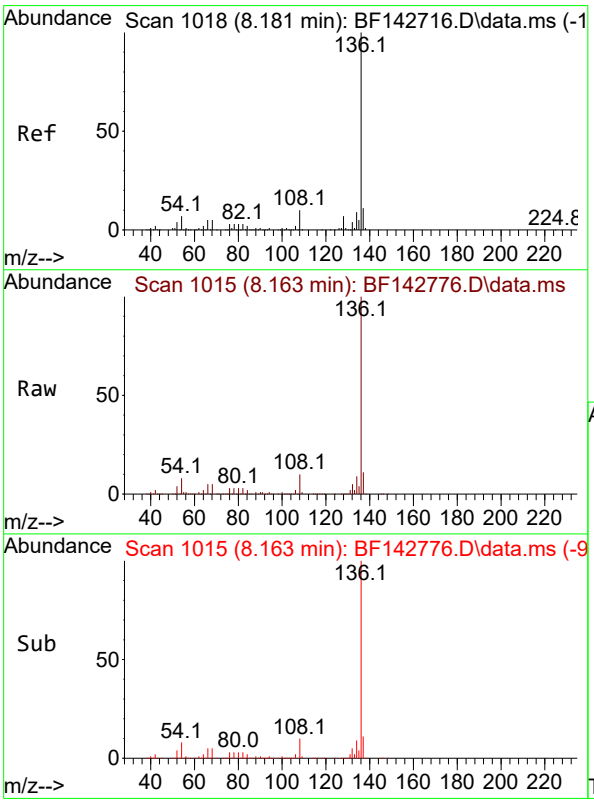
#7
Phenol-d6
Concen: 44.753 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion: 99 Resp: 224904

Ion	Ratio	Lower	Upper
99	100		
42	19.4	15.9	23.9
71	34.7	28.0	42.0

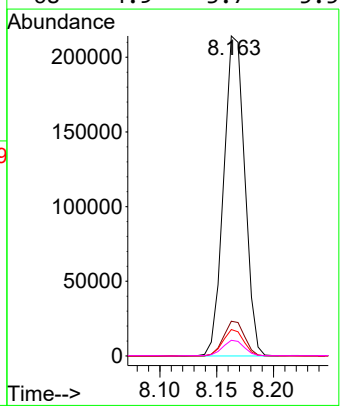


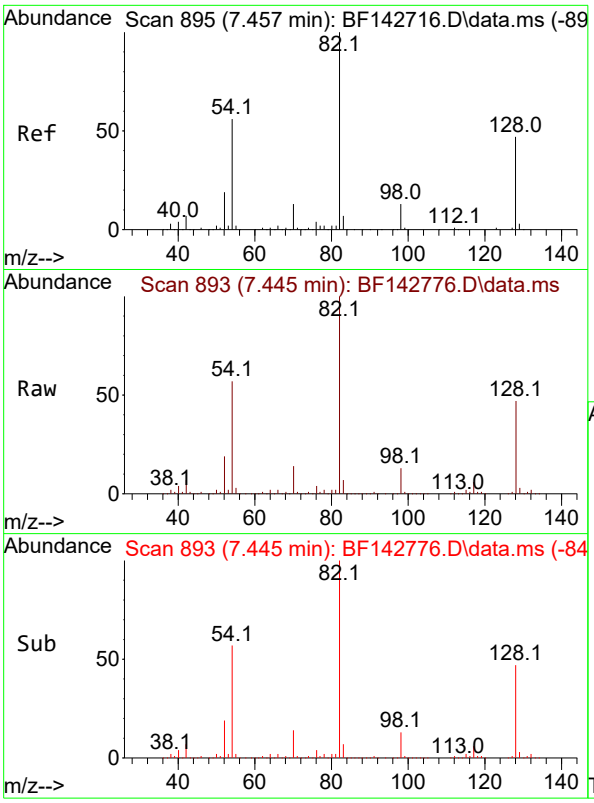


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.018 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Tgt Ion:136 Resp: 276703

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	8.2	5.9	8.9
68	4.9	3.7	5.5



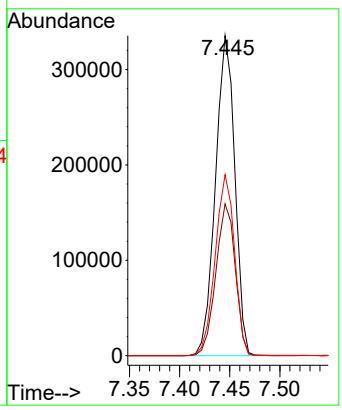


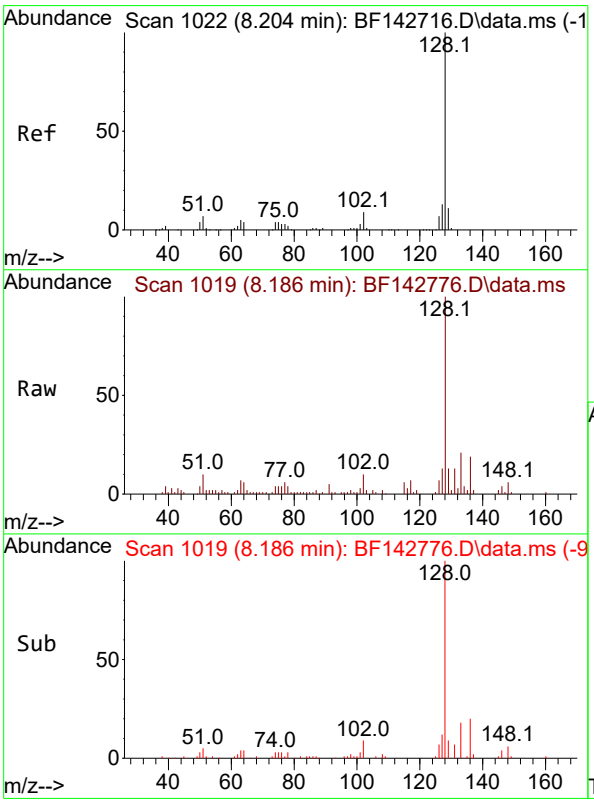
#23
Nitrobenzene-d5
Concen: 89.128 ng
RT: 7.445 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion: 82 Resp: 450633

Ion	Ratio	Lower	Upper
82	100		
128	47.4	37.8	56.8
54	56.5	44.9	67.3

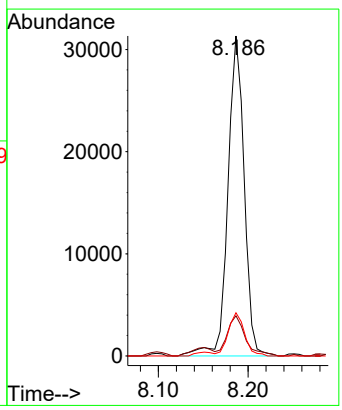


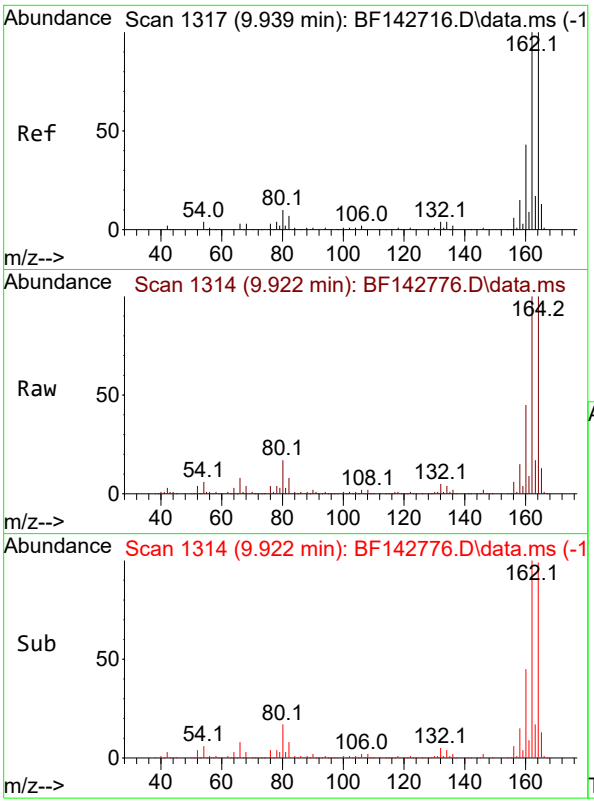


#31
Naphthalene
Concen: 2.894 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.018 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Tgt Ion:128 Resp: 39603

Ion	Ratio	Lower	Upper
128	100		
129	12.5	8.7	13.1
127	13.5	10.4	15.6



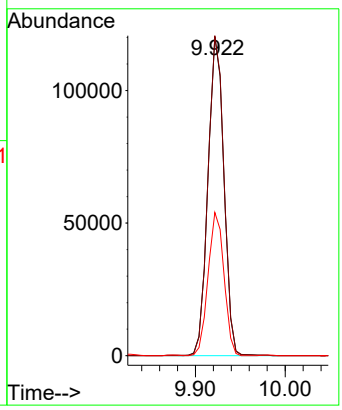


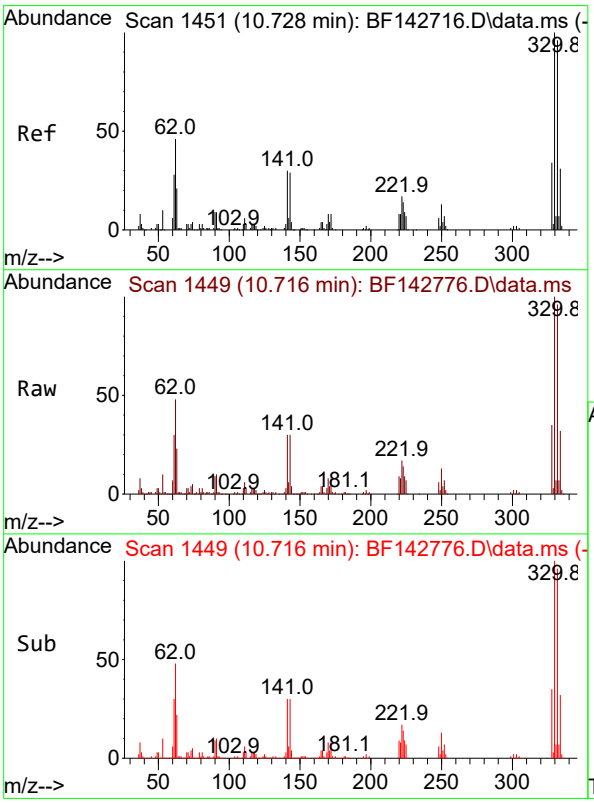
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion:164 Resp: 148072

Ion	Ratio	Lower	Upper
164	100		
162	100.4	79.9	119.9
160	44.9	34.8	52.2

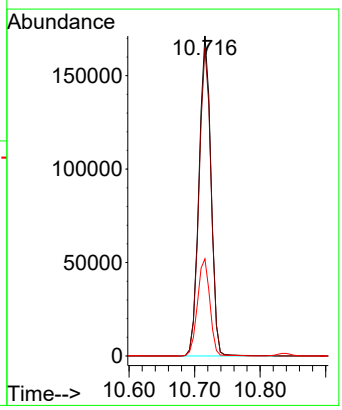


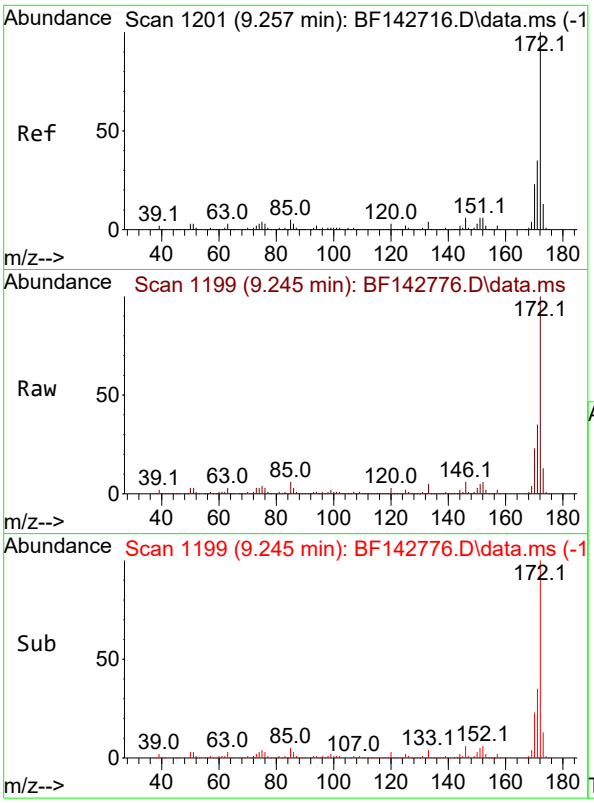


#42
2,4,6-Tribromophenol
Concen: 134.104 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Tgt Ion:330 Resp: 217630

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.0	115.6
141	31.4	25.4	38.0



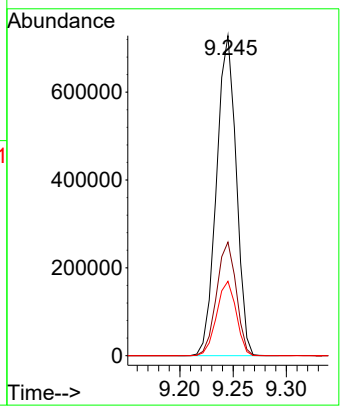


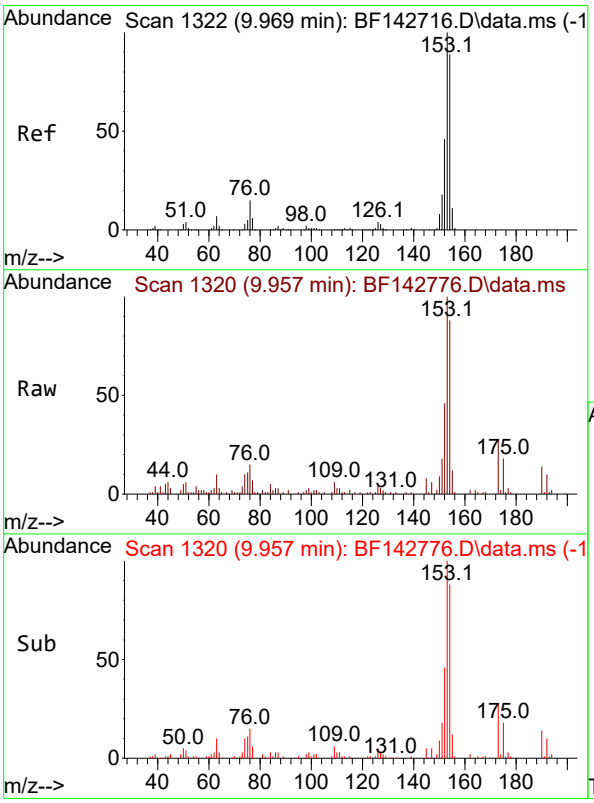
#45
2-Fluorobiphenyl
Concen: 83.968 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion:172 Resp: 935846

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	23.3	18.6	27.8

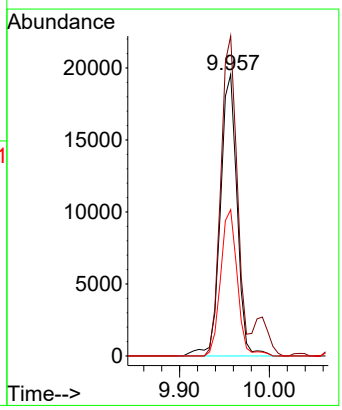


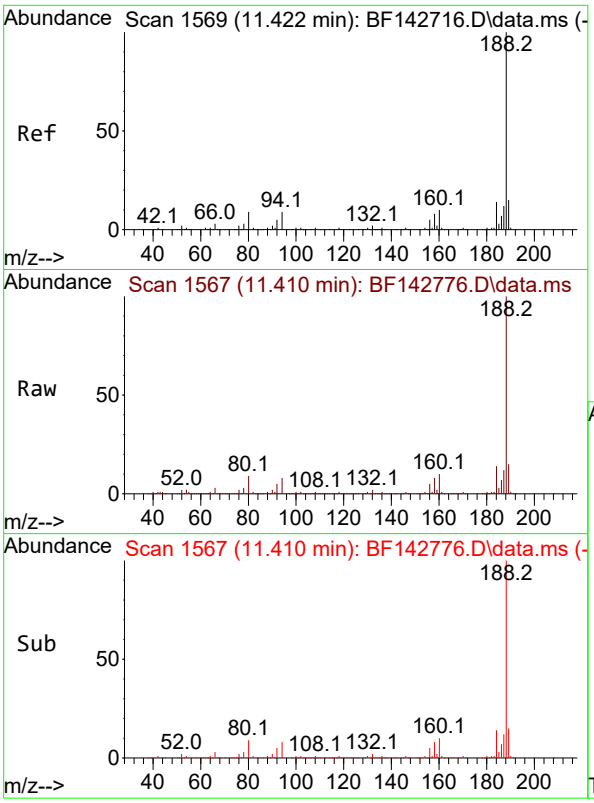


#52
Acenaphthene
Concen: 2.848 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Tgt Ion:154 Resp: 25223

Ion	Ratio	Lower	Upper
154	100		
153	113.7	90.1	135.1
152	52.0	41.9	62.9



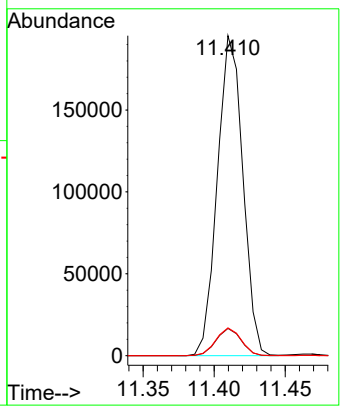


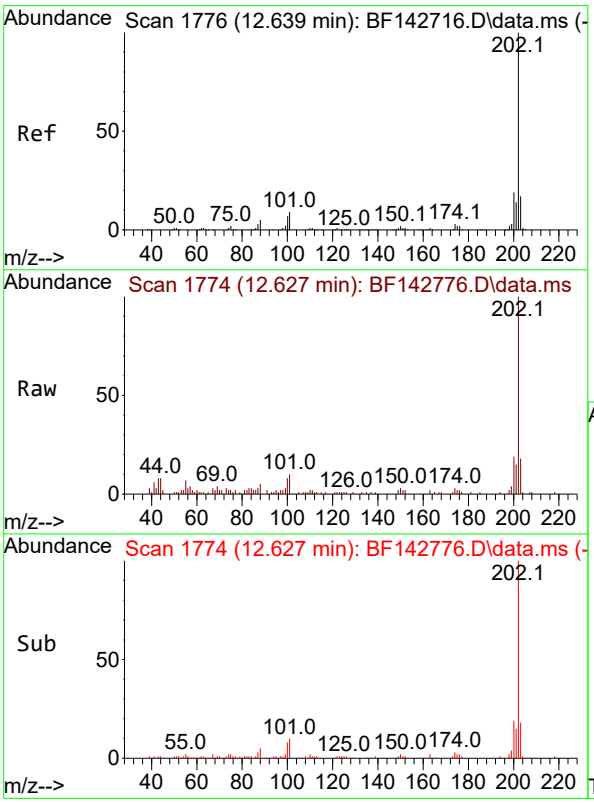
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion:188 Resp: 243522

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.8	10.2
80	8.7	7.1	10.7

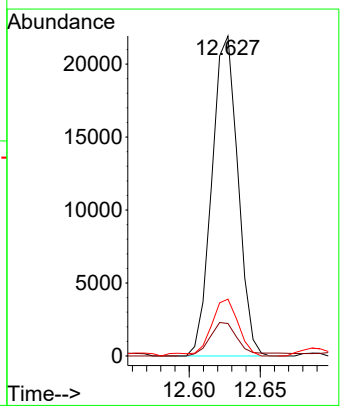


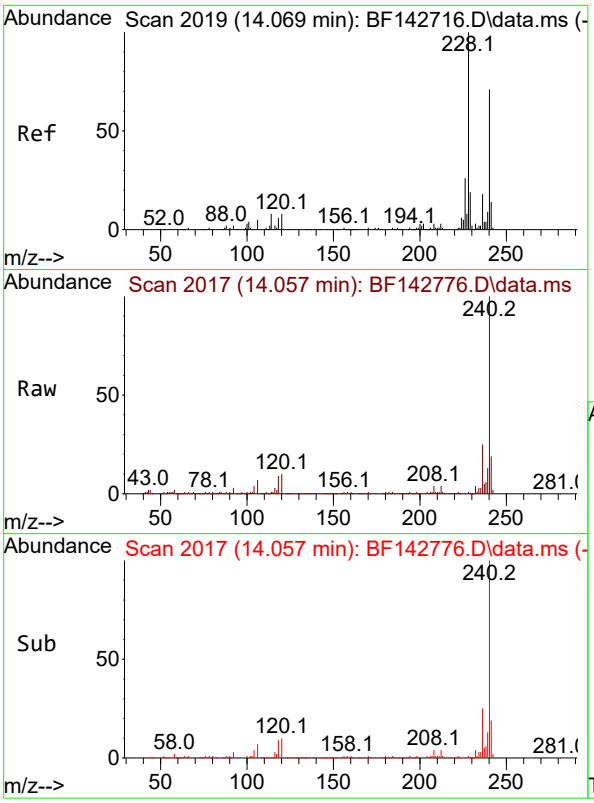


#75
Fluoranthene
Concen: 2.255 ng
RT: 12.627 min Scan# 1774
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Tgt Ion:202 Resp: 27972

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.5
203	17.7	0.0	37.0



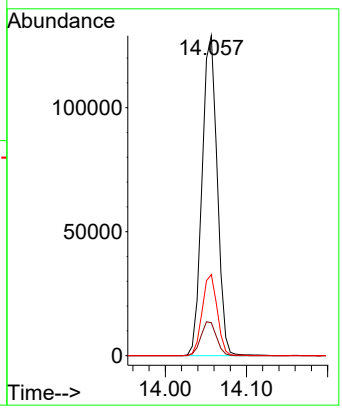


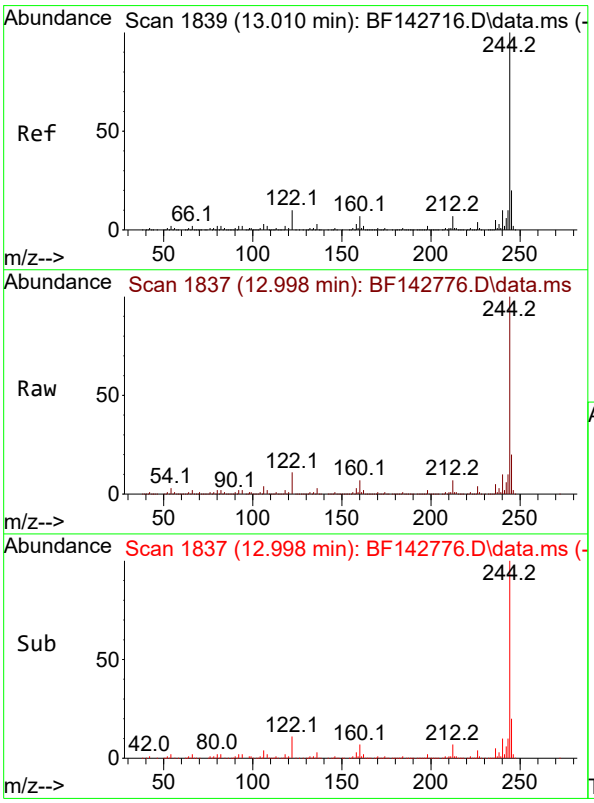
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion:240 Resp: 167055

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.5	12.7
236	25.4	20.1	30.1

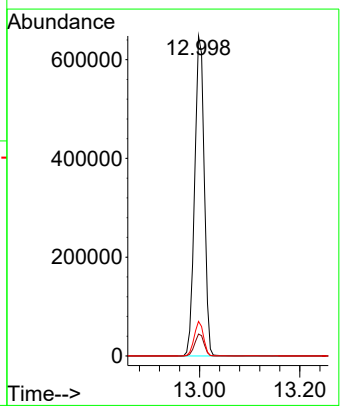


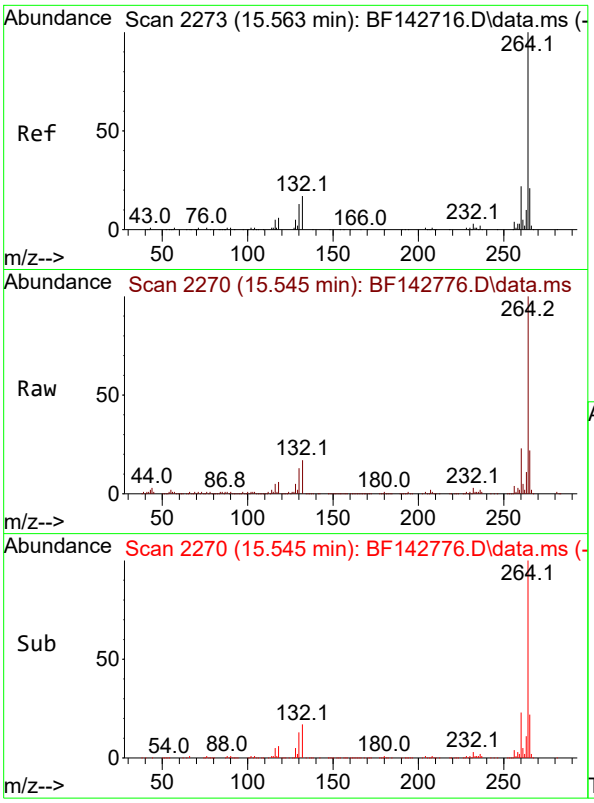


#79
Terphenyl-d14
Concen: 70.221 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.012 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Tgt Ion:244 Resp: 854118

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	10.8	8.3	12.5



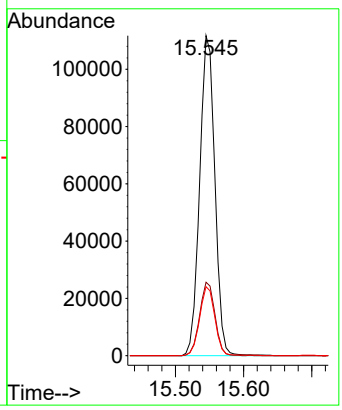


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF142776.D
Acq: 18 Jun 2025 13:49

Instrument :
BNA_F
ClientSampleId :
MW-06

Tgt Ion:264 Resp: 173007

Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.8	26.6
265	21.5	16.6	25.0



Raw Data: **BP025000.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-08	SDG No.:	Q2333
Lab Sample ID:	Q2333-02	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP025000.D	1	06/17/25 09:25	06/18/25 18:53	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	5.10	U	0.77	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	0.56	5.10	ug/L
86-73-7	Fluorene	5.10	U	0.64	5.10	ug/L
85-01-8	Phenanthrene	5.10	U	0.51	5.10	ug/L
120-12-7	Anthracene	5.10	U	0.62	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	0.84	5.10	ug/L
129-00-0	Pyrene	5.10	U	0.51	5.10	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	0.46	5.10	ug/L
218-01-9	Chrysene	5.10	U	0.45	5.10	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	0.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	0.49	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	5.10	U	0.70	5.10	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	87.7		67 - 132	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.7		52 - 132	80%	SPK: 100
1718-51-0	Terphenyl-d14	81.7		42 - 152	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	285000	7.602			
1146-65-2	Naphthalene-d8	1180000	10.372			
15067-26-2	Acenaphthene-d10	819000	14.254			
1517-22-2	Phenanthrene-d10	1530000	17.06			
1719-03-5	Chrysene-d12	1580000	21.495			
1520-96-3	Perylene-d12	1800000	24.777			

Raw Data: **BP025000.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-08	SDG No.:	Q2333
Lab Sample ID:	Q2333-02	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP025000.D	1	06/17/25 09:25	06/18/25 18:53	PB168509

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_P\Data\BP061825\
Data File : BP025000.D
Acq On : 18 Jun 2025 18:53
Operator : RC/JU
Sample : Q2333-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
MW-08

Quant Time: Jun 19 01:26:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

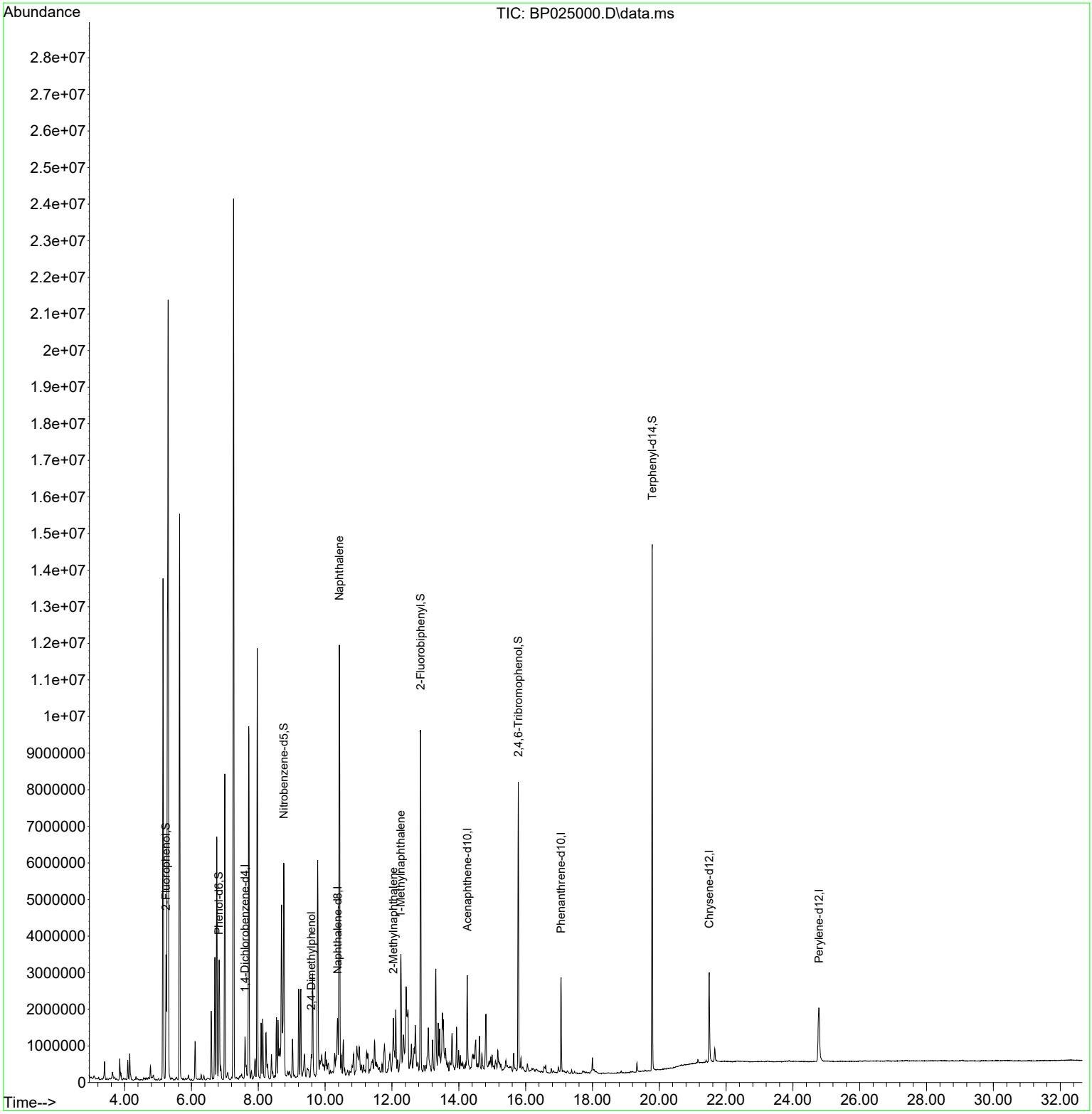
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.602	152	284799	20.000	ng	-0.01
21) Naphthalene-d8	10.372	136	1178298	20.000	ng	0.00
39) Acenaphthene-d10	14.254	164	818800	20.000	ng	0.00
64) Phenanthrene-d10	17.060	188	1525739	20.000	ng	0.00
76) Chrysene-d12	21.495	240	1584667	20.000	ng	0.01
86) Perylene-d12	24.777	264	1801582	20.000	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.237	112	1636926	95.940	ng	0.00
7) Phenol-d6	6.819	99	1443024	63.922	ng	0.00
23) Nitrobenzene-d5	8.761	82	2125743	87.666	ng	0.00
42) 2,4,6-Tribromophenol	15.784	330	1658487	146.505	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	4842820	79.676	ng	0.00
79) Terphenyl-d14	19.789	244	7224846	81.713	ng	0.00
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	9.584	122	140690	7.734	ng	100
31) Naphthalene	10.425	128	9843855	163.023	ng	99
37) 2-Methylnaphthalene	12.043	142	516069	13.473	ng	99
38) 1-Methylnaphthalene	12.260	142	917594m	22.408	ng	

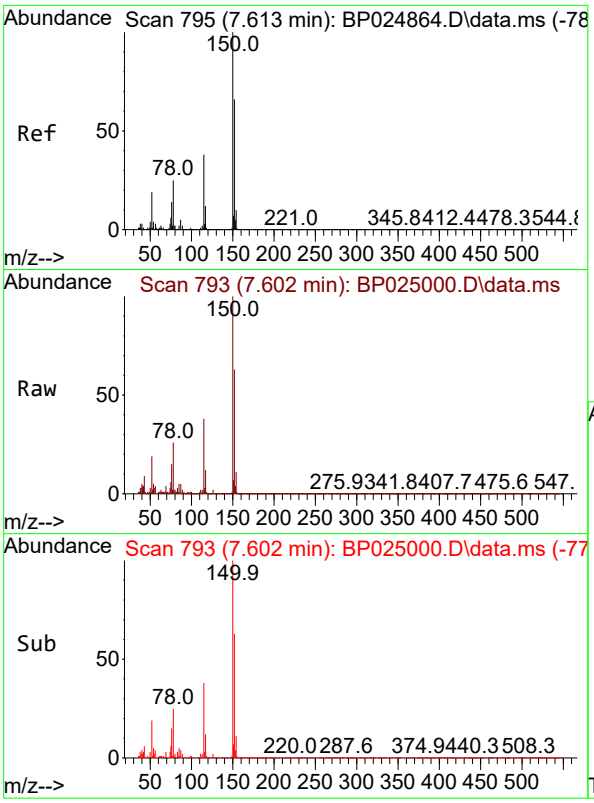
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP025000.D
Acq On : 18 Jun 2025 18:53
Operator : RC/JU
Sample : Q2333-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
MW-08

Quant Time: Jun 19 01:26:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



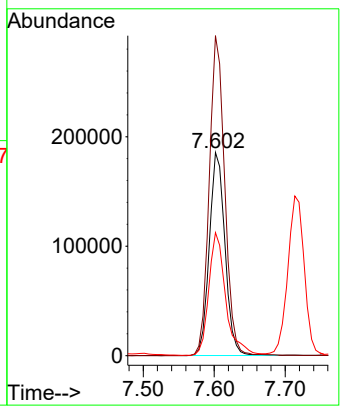


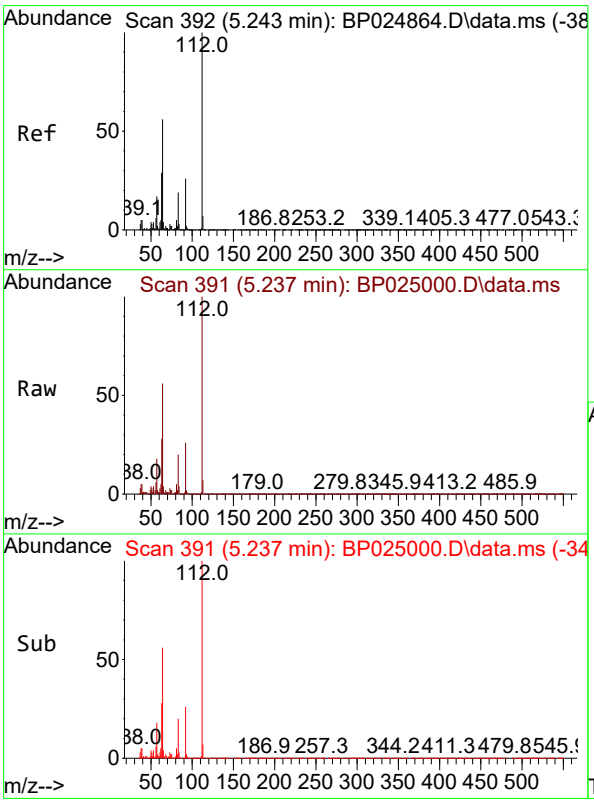
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.602 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion:152 Resp: 284799

Ion	Ratio	Lower	Upper
152	100		
150	157.5	122.1	183.1
115	60.5	46.4	69.6

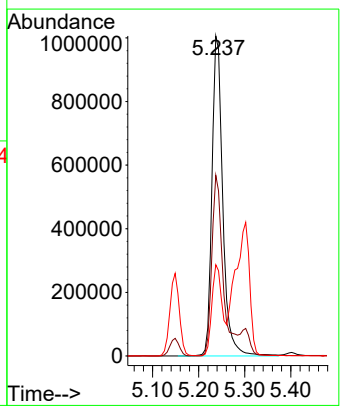


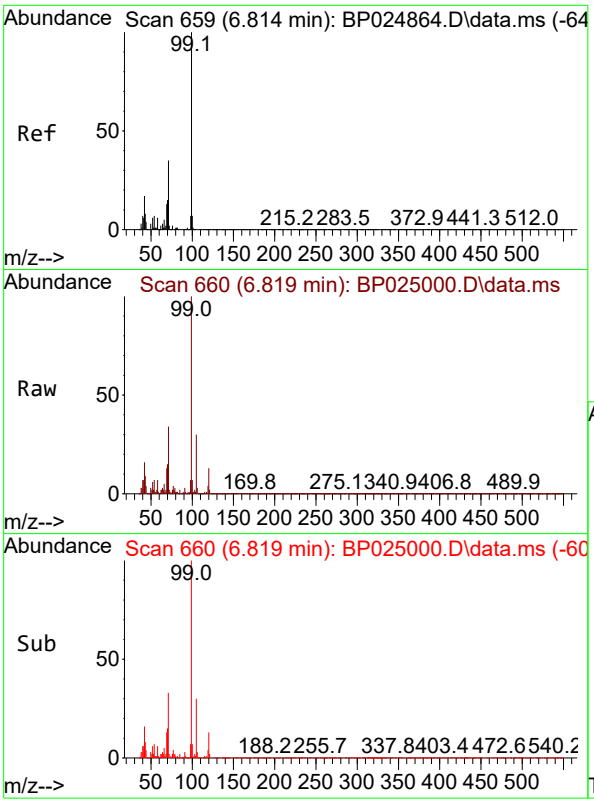


#5
2-Fluorophenol
Concen: 95.940 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:112 Resp: 1636926

Ion	Ratio	Lower	Upper
112	100		
64	56.5	44.7	67.1
63	28.5	23.5	35.3



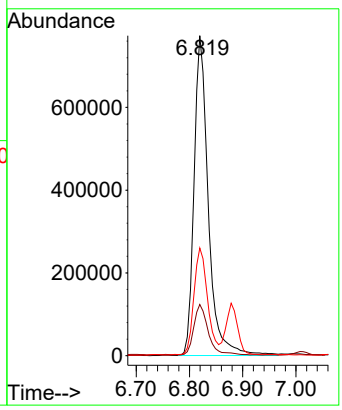


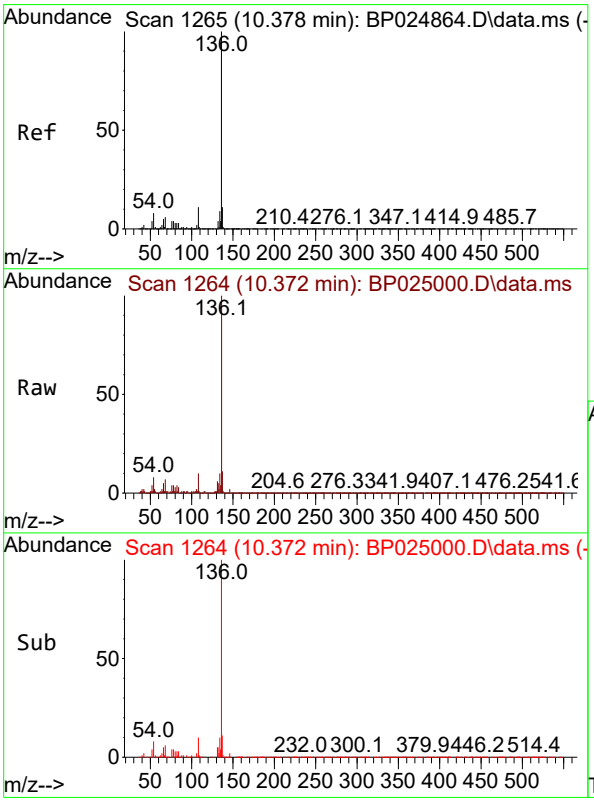
#7
Phenol-d6
Concen: 63.922 ng
RT: 6.819 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion: 99 Resp: 1443024

Ion	Ratio	Lower	Upper
99	100		
42	16.0	13.4	20.2
71	33.7	27.6	41.4

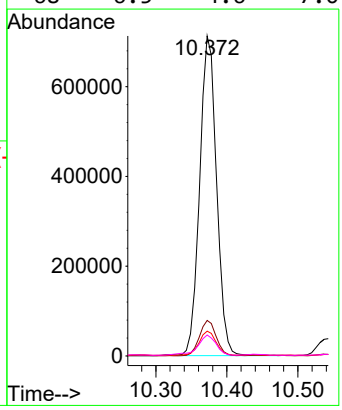


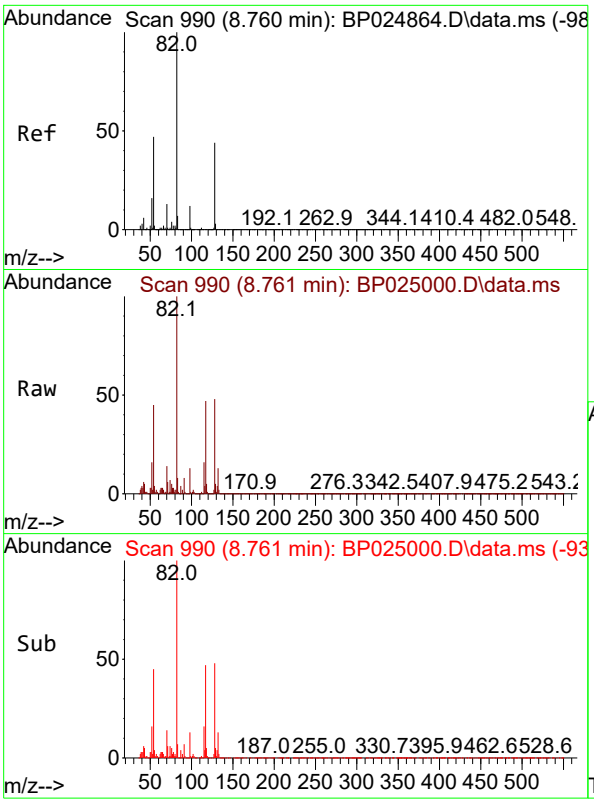


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.372 min Scan# 1264
Delta R.T. -0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:136 Resp: 1178298

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.8	6.1	9.1
68	6.5	4.6	7.0



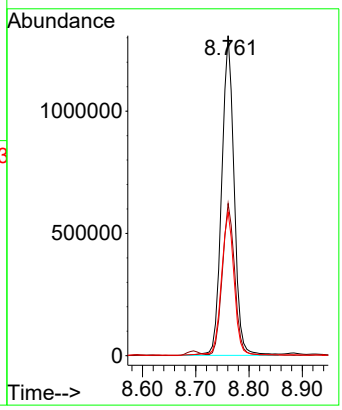


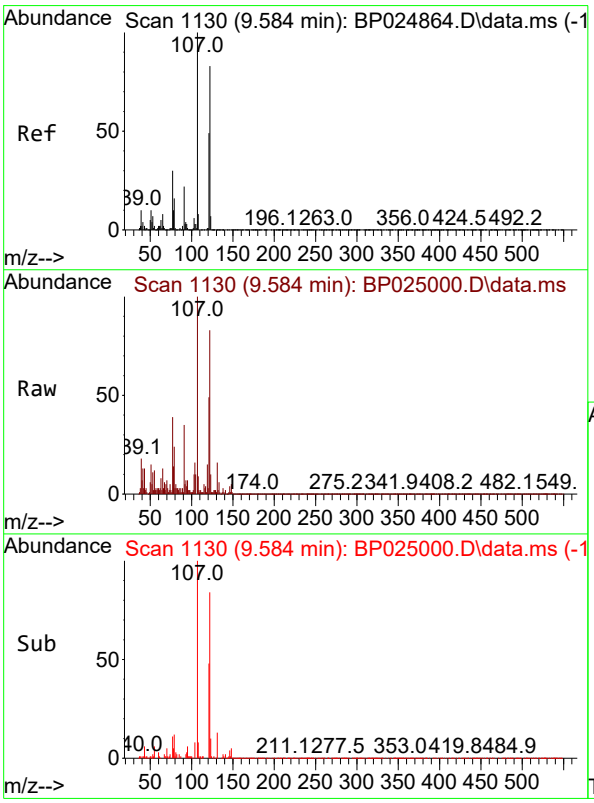
#23
Nitrobenzene-d5
Concen: 87.666 ng
RT: 8.761 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion: 82 Resp: 2125743

Ion	Ratio	Lower	Upper
82	100		
128	47.6	35.3	52.9
54	44.9	37.4	56.0

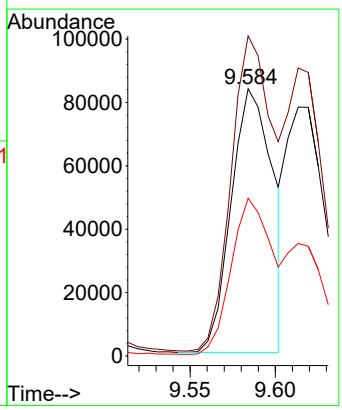


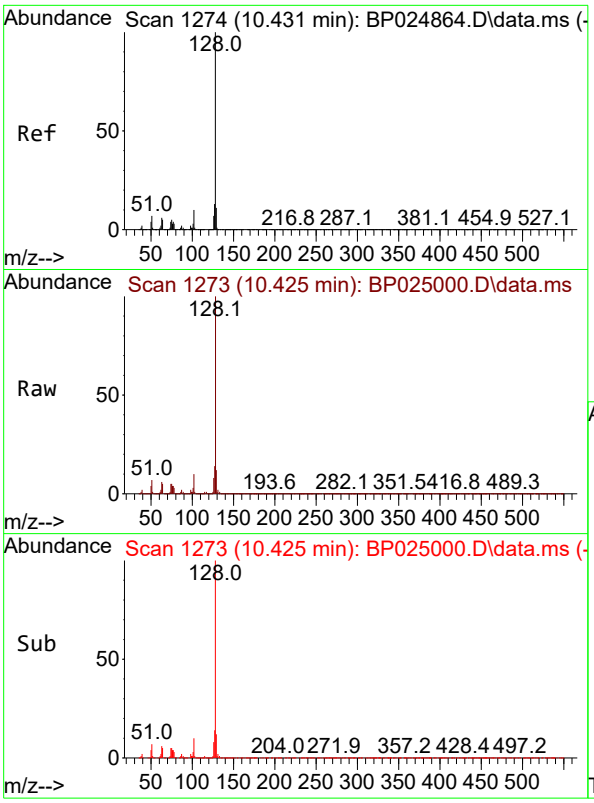


#27
2,4-Dimethylphenol
Concen: 7.734 ng
RT: 9.584 min Scan# 1130
Delta R.T. 0.000 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:122 Resp: 140690

Ion	Ratio	Lower	Upper
122	100		
107	119.8	96.2	144.4
121	59.0	47.0	70.4



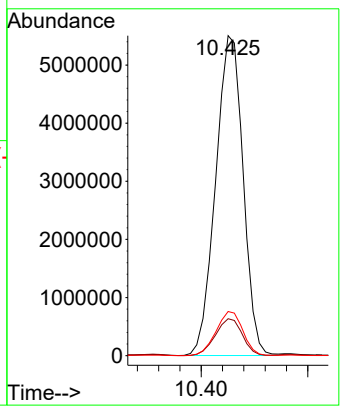


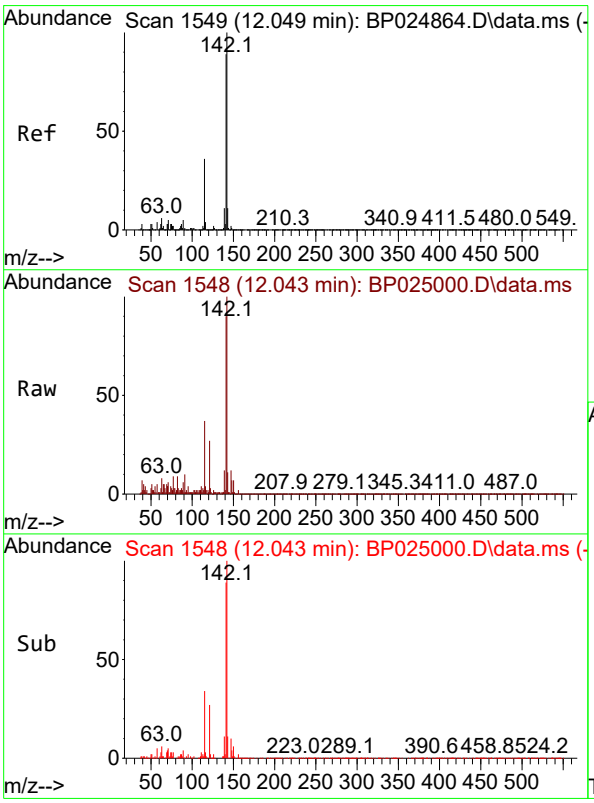
#31
Naphthalene
Concen: 163.023 ng
RT: 10.425 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion:128 Resp: 9843855

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.7	13.1
127	13.8	10.7	16.1

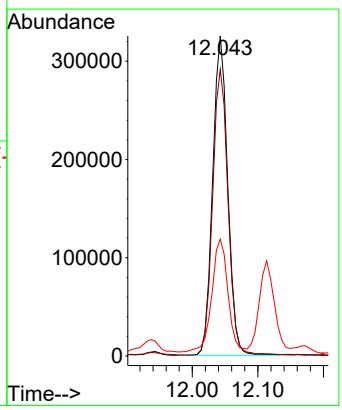


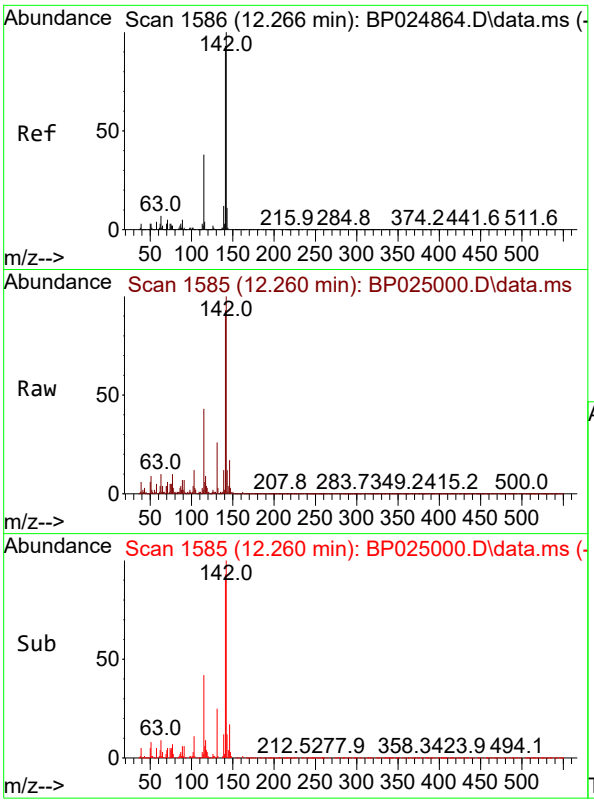


#37
2-Methylnaphthalene
Concen: 13.473 ng
RT: 12.043 min Scan# 1548
Delta R.T. -0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:142 Resp: 516069

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.2	106.8
115	36.5	28.5	42.7



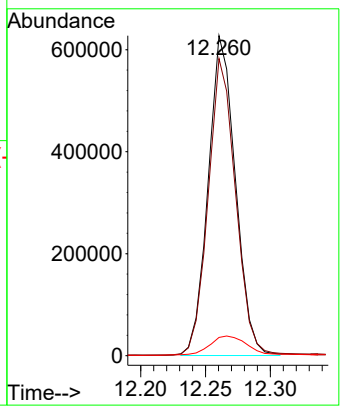


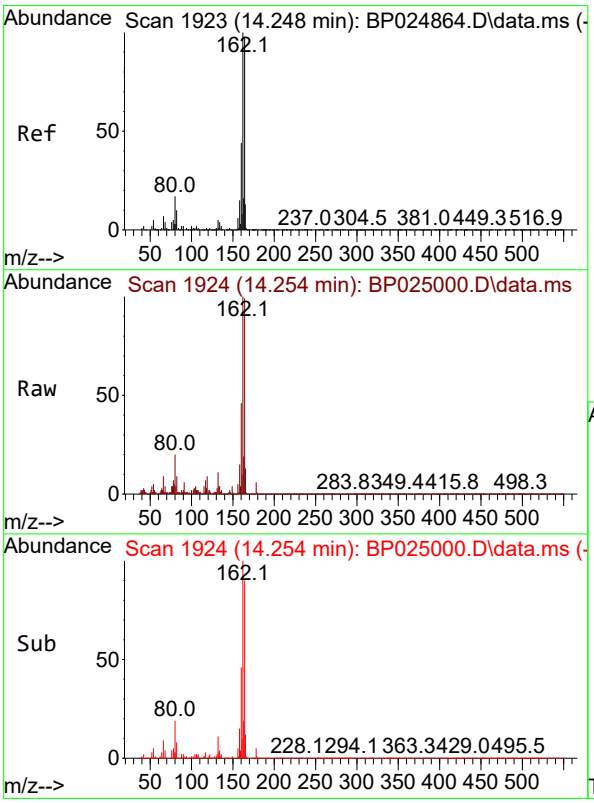
#38
1-Methylnaphthalene
Concen: 22.408 ng m
RT: 12.260 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion:142 Resp: 917594

Ion	Ratio	Lower	Upper
142	100		
141	92.9	74.7	112.1
116	5.7	3.4	5.0#

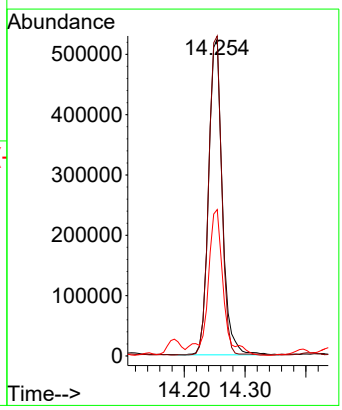


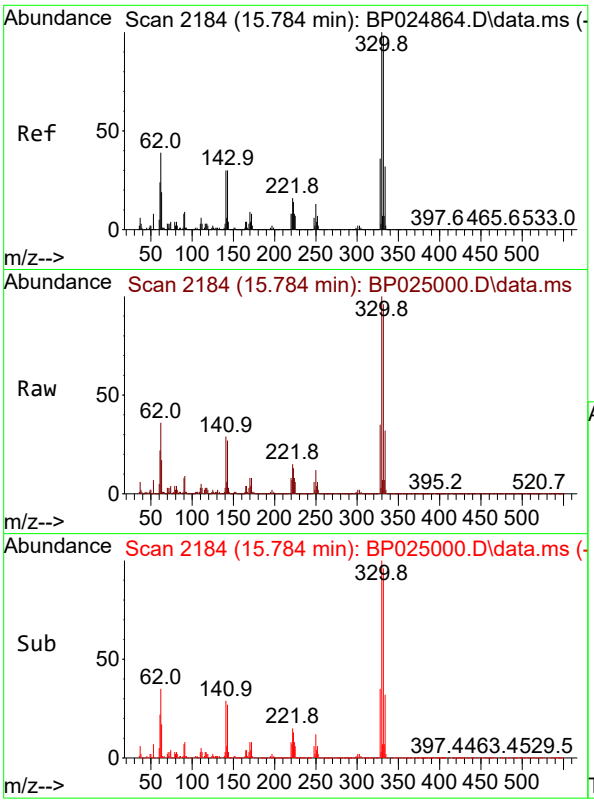


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.254 min Scan# 1924
Delta R.T. 0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:164 Resp: 818800

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.6	122.4
160	46.2	36.2	54.2



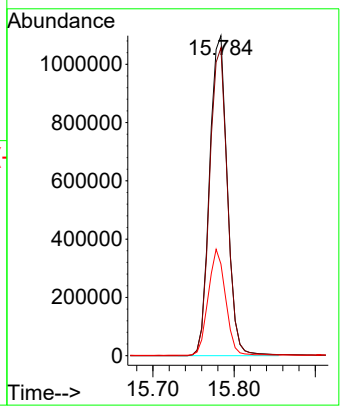


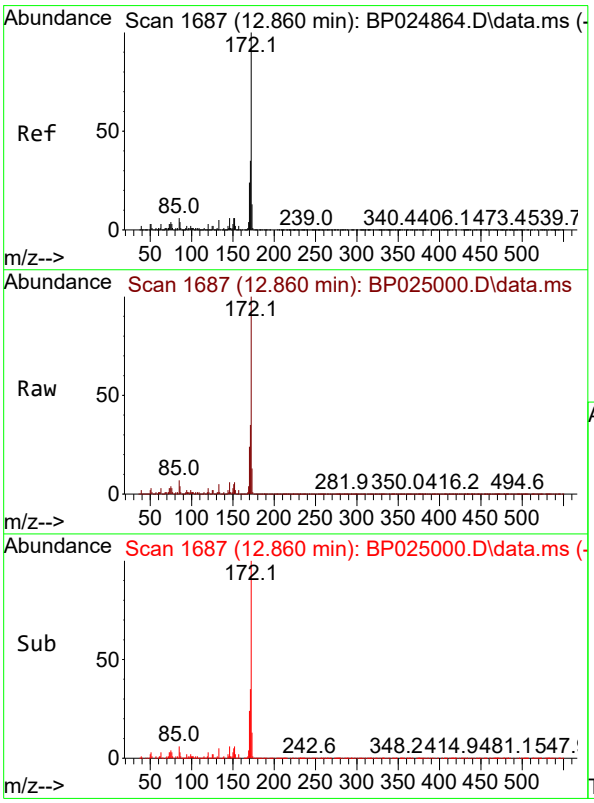
#42
2,4,6-Tribromophenol
Concen: 146.505 ng
RT: 15.784 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion:330 Resp: 1658487

Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.7	116.5
141	32.5	26.4	39.6

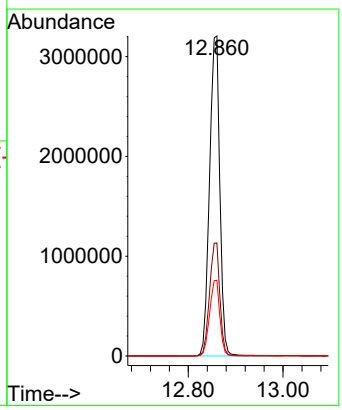


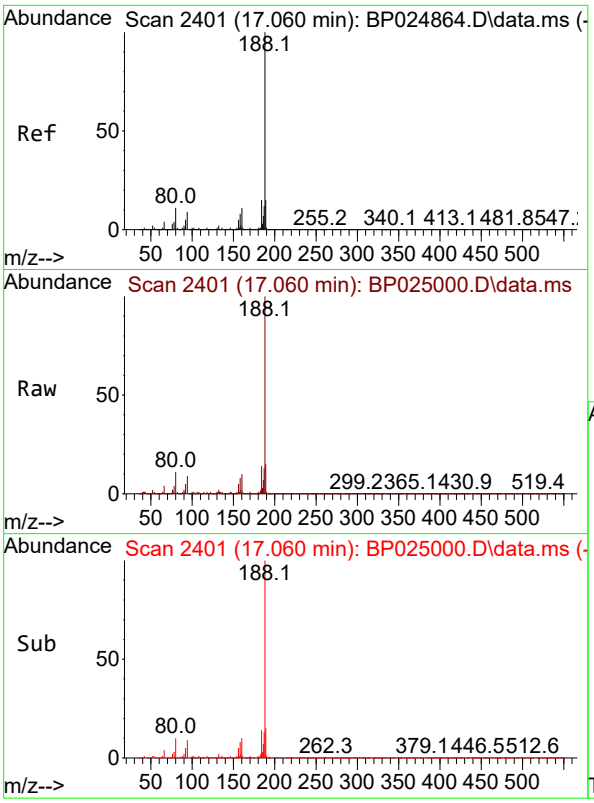


#45
2-Fluorobiphenyl
Concen: 79.676 ng
RT: 12.860 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:172 Resp: 4842820

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.6	19.0	28.4



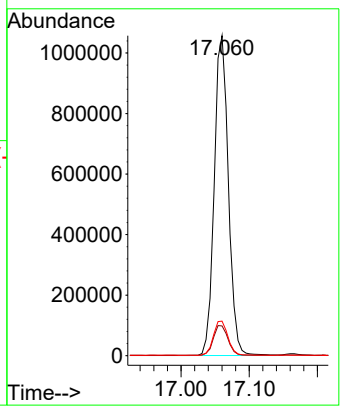


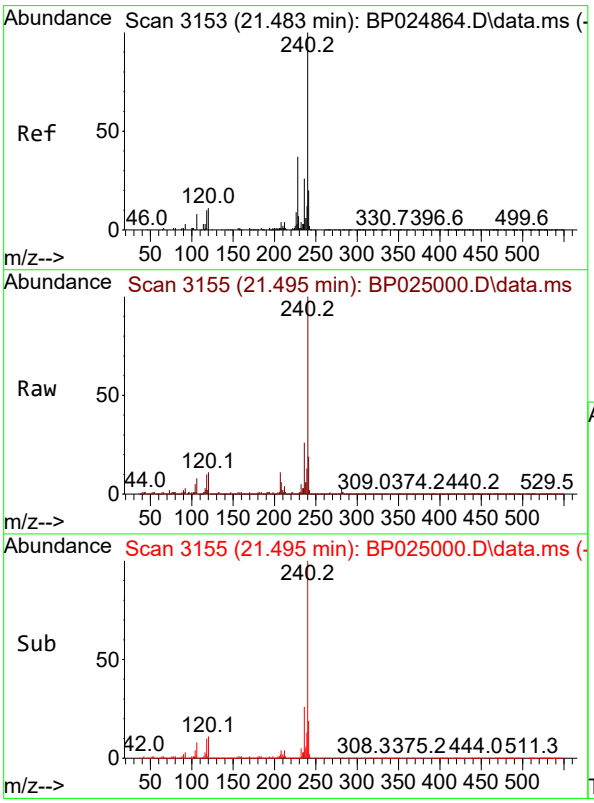
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.060 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion:188 Resp: 1525739

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.3	10.9
80	10.8	8.5	12.7

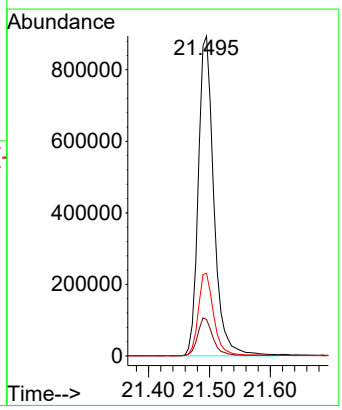


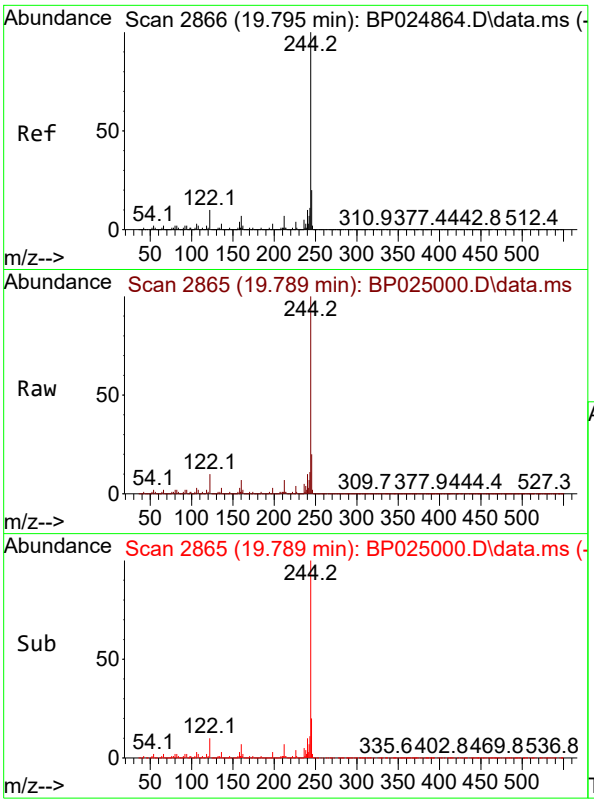


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.495 min Scan# 3155
Delta R.T. 0.012 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:240 Resp: 1584667

Ion	Ratio	Lower	Upper
240	100		
120	11.4	8.9	13.3
236	25.8	20.9	31.3



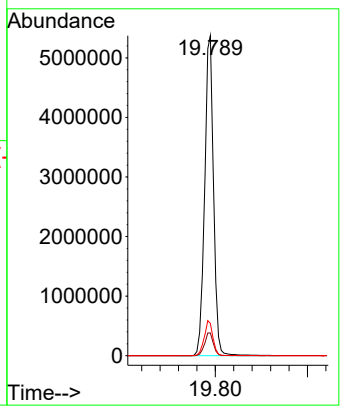


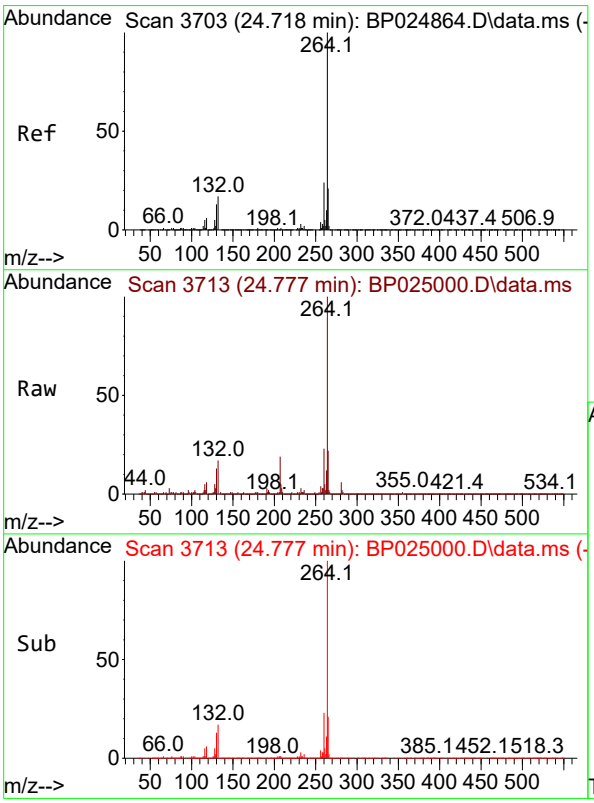
#79
Terphenyl-d14
Concen: 81.713 ng
RT: 19.789 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Instrument :
BNA_P
ClientSampleId :
MW-08

Tgt Ion:244 Resp: 7224846

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	10.1	7.7	11.5

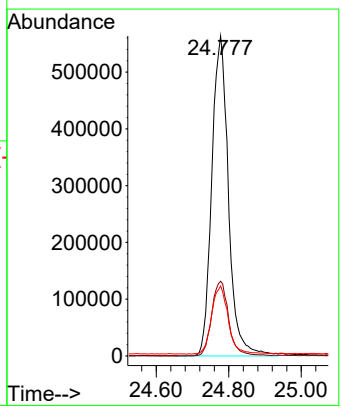




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.777 min Scan# 3713
Delta R.T. 0.059 min
Lab File: BP025000.D
Acq: 18 Jun 2025 18:53

Tgt Ion:264 Resp: 1801582

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.0	28.4
265	21.9	17.4	26.0



Raw Data: **BF142777.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-10	SDG No.:	Q2333
Lab Sample ID:	Q2333-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF142777.D	1	06/17/25 09:25	06/18/25 14:19	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	5.10	U	0.76	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	0.56	5.10	ug/L
86-73-7	Fluorene	5.10	U	0.64	5.10	ug/L
85-01-8	Phenanthrene	5.10	U	0.51	5.10	ug/L
120-12-7	Anthracene	5.10	U	0.62	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	0.83	5.10	ug/L
129-00-0	Pyrene	5.10	U	0.51	5.10	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	0.45	5.10	ug/L
218-01-9	Chrysene	5.10	U	0.44	5.10	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	0.49	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	0.48	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	5.10	U	0.70	5.10	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	87.3		67 - 132	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.9		52 - 132	82%	SPK: 100
1718-51-0	Terphenyl-d14	69.4		42 - 152	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75500	6.881			
1146-65-2	Naphthalene-d8	280000	8.163			
15067-26-2	Acenaphthene-d10	151000	9.922			
1517-22-2	Phenanthrene-d10	249000	11.41			
1719-03-5	Chrysene-d12	179000	14.057			
1520-96-3	Perylene-d12	176000	15.545			

Raw Data: **BF142777.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-10	SDG No.:	Q2333
Lab Sample ID:	Q2333-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF142777.D	1	06/17/25 09:25	06/18/25 14:19	PB168509

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\BF061825\
Data File : BF142777.D
Acq On : 18 Jun 2025 14:19
Operator : RC/JU
Sample : Q2333-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MW-10

Quant Time: Jun 18 14:49:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

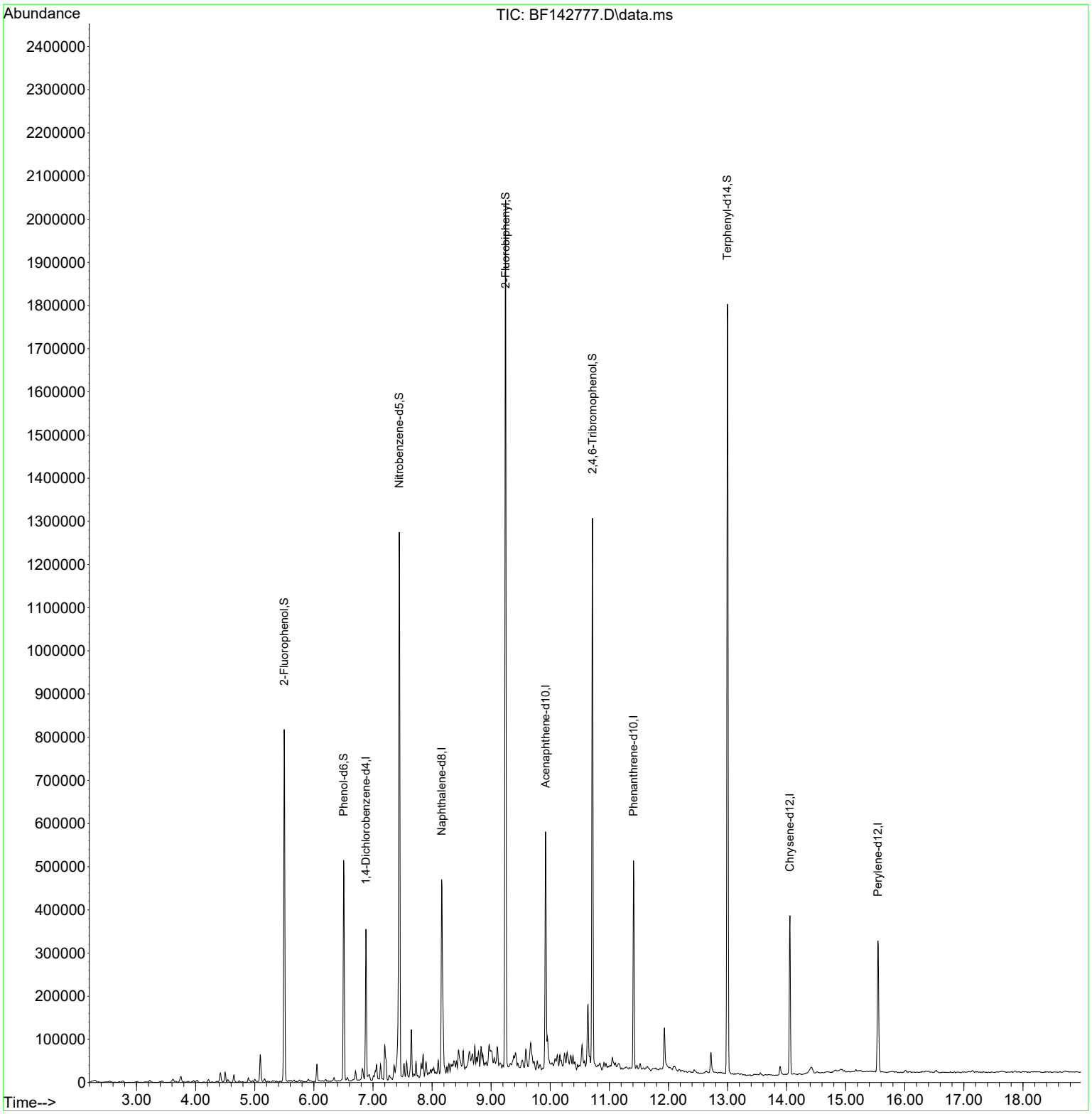
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	75516	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	279917	20.000	ng	-0.02
39) Acenaphthene-d10	9.922	164	151116	20.000	ng	-0.02
64) Phenanthrene-d10	11.410	188	248862	20.000	ng	-0.01
76) Chrysene-d12	14.057	240	179367	20.000	ng	-0.01
86) Perylene-d12	15.545	264	176221	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	302919	68.319	ng	0.00
7) Phenol-d6	6.504	99	227119	43.525	ng	-0.02
23) Nitrobenzene-d5	7.445	82	446599	87.316	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	223791	135.122	ng	-0.01
45) 2-Fluorobiphenyl	9.245	172	931307	81.877	ng	-0.01
79) Terphenyl-d14	12.998	244	906743	69.431	ng	-0.01
Target Compounds						Qvalue

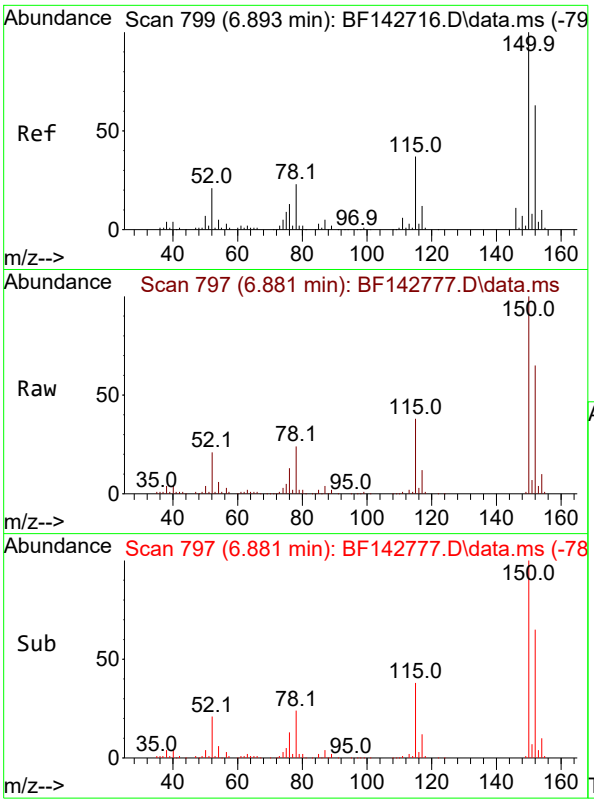
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142777.D
Acq On : 18 Jun 2025 14:19
Operator : RC/JU
Sample : Q2333-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MW-10

Quant Time: Jun 18 14:49:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration



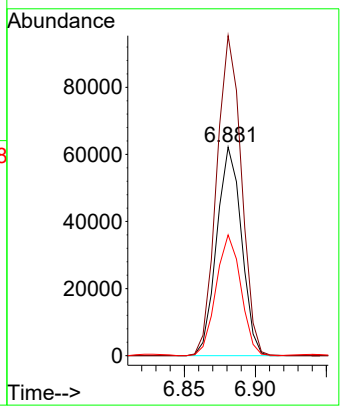


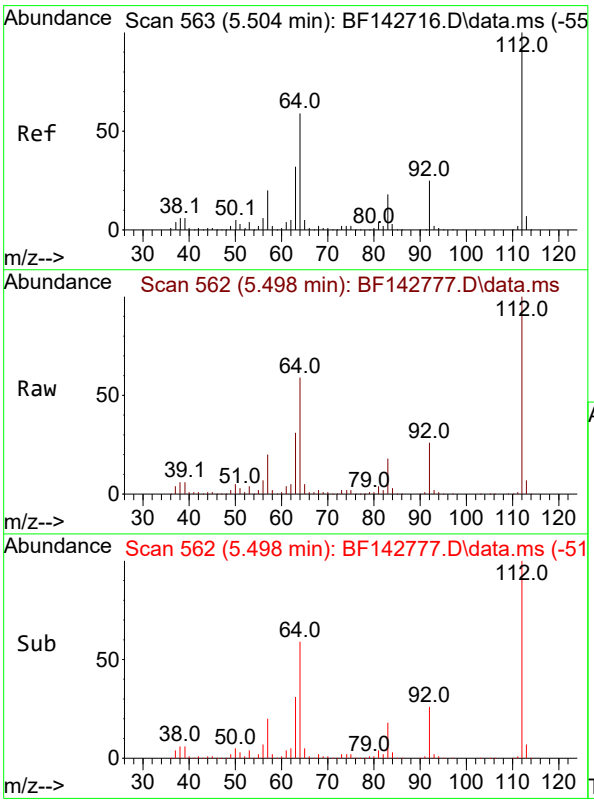
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Instrument :
BNA_F
ClientSampleId :
MW-10

Tgt Ion:152 Resp: 75516

Ion	Ratio	Lower	Upper
152	100		
150	153.4	126.9	190.3
115	57.9	47.0	70.6

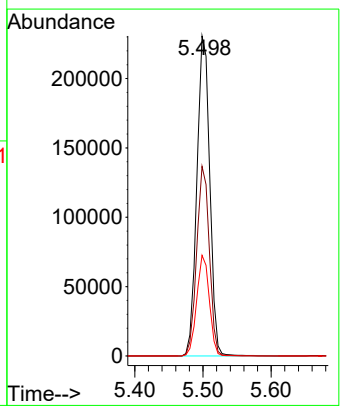


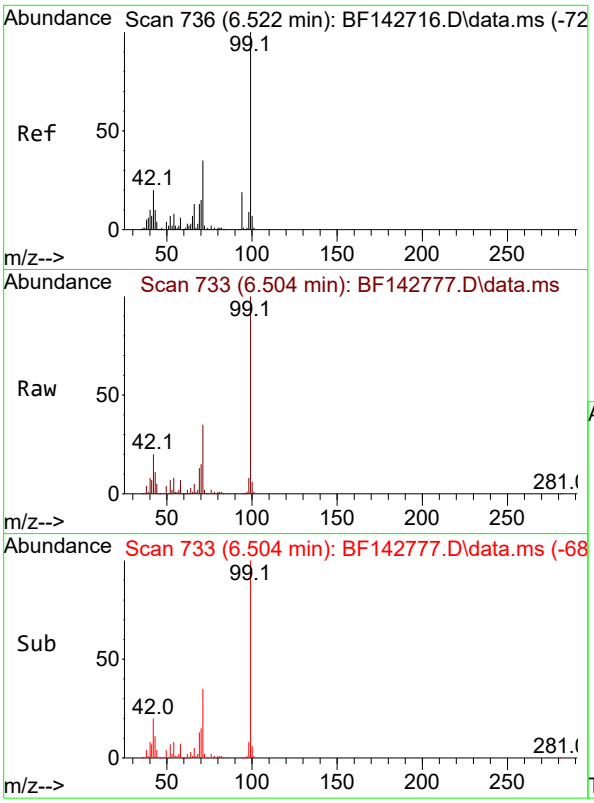


#5
2-Fluorophenol
Concen: 68.319 ng
RT: 5.498 min Scan# 562
Delta R.T. -0.006 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Tgt Ion:112 Resp: 302919

Ion	Ratio	Lower	Upper
112	100		
64	59.3	47.4	71.2
63	31.5	25.4	38.0



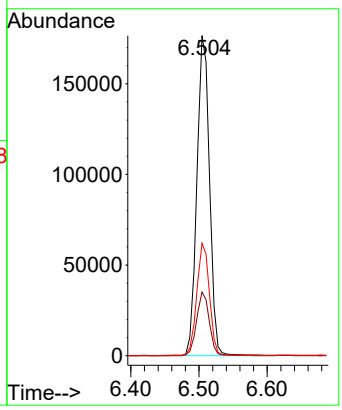


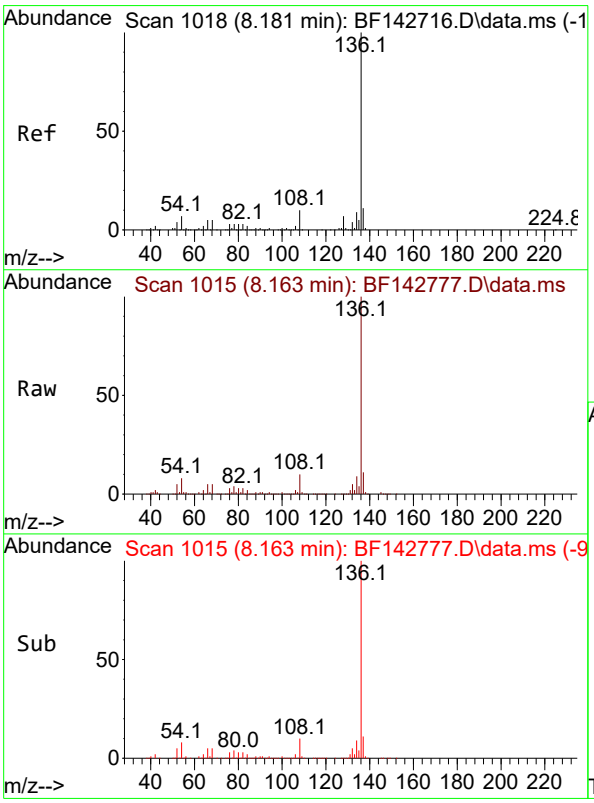
#7
Phenol-d6
Concen: 43.525 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Instrument :
BNA_F
ClientSampleId :
MW-10

Tgt Ion: 99 Resp: 227119

Ion	Ratio	Lower	Upper
99	100		
42	19.9	15.9	23.9
71	35.1	28.0	42.0

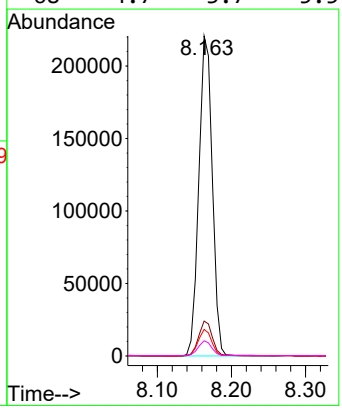


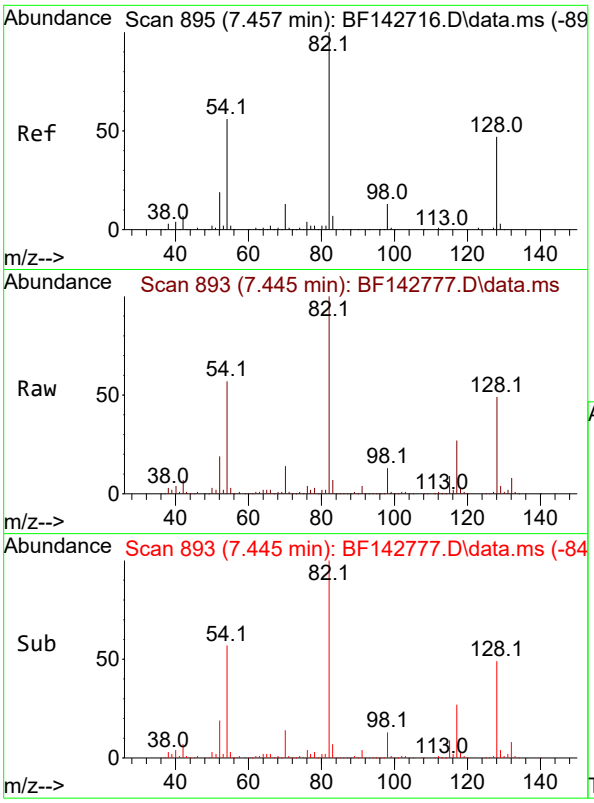


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.018 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Tgt Ion:136 Resp: 279917

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	8.3	5.9	8.9
68	4.7	3.7	5.5



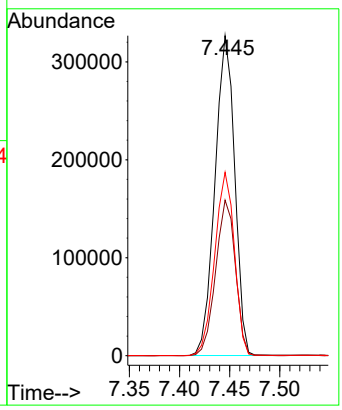


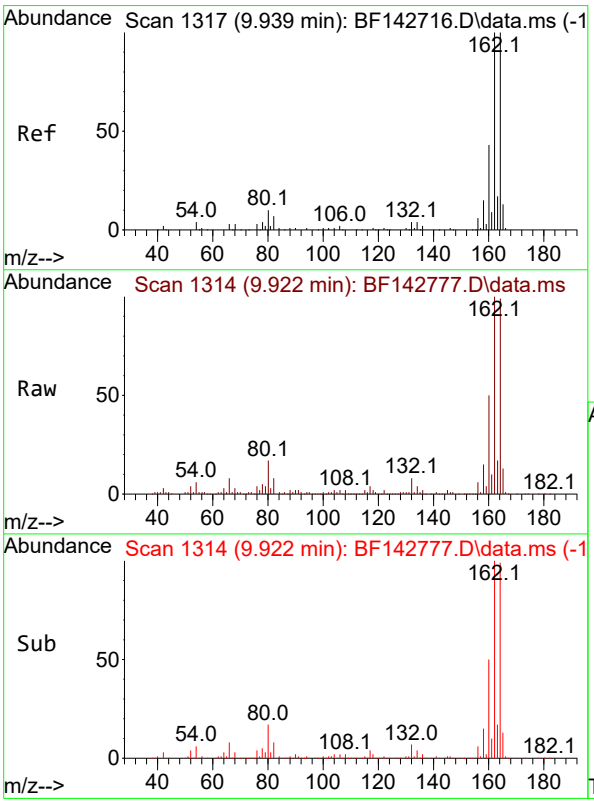
#23
Nitrobenzene-d5
Concen: 87.316 ng
RT: 7.445 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Instrument :
BNA_F
ClientSampleId :
MW-10

Tgt Ion: 82 Resp: 446599

Ion	Ratio	Lower	Upper
82	100		
128	48.6	37.8	56.8
54	57.3	44.9	67.3

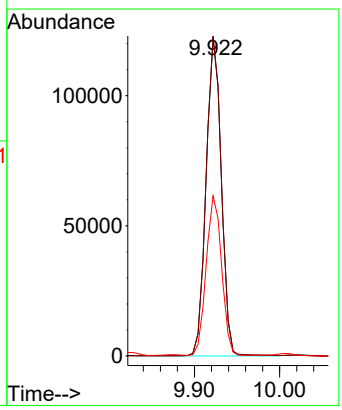


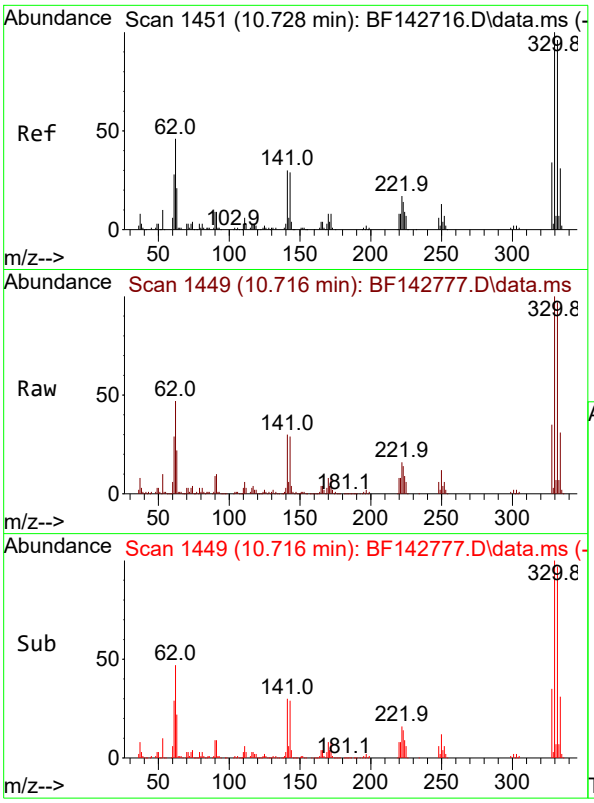


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.018 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Tgt Ion:164 Resp: 151116

Ion	Ratio	Lower	Upper
164	100		
162	100.6	79.9	119.9
160	50.4	34.8	52.2



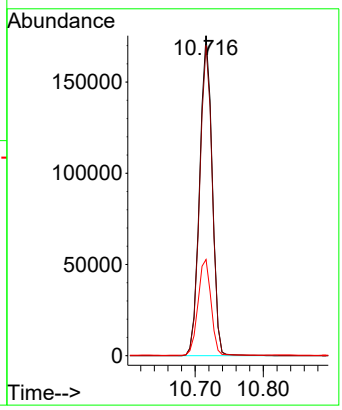


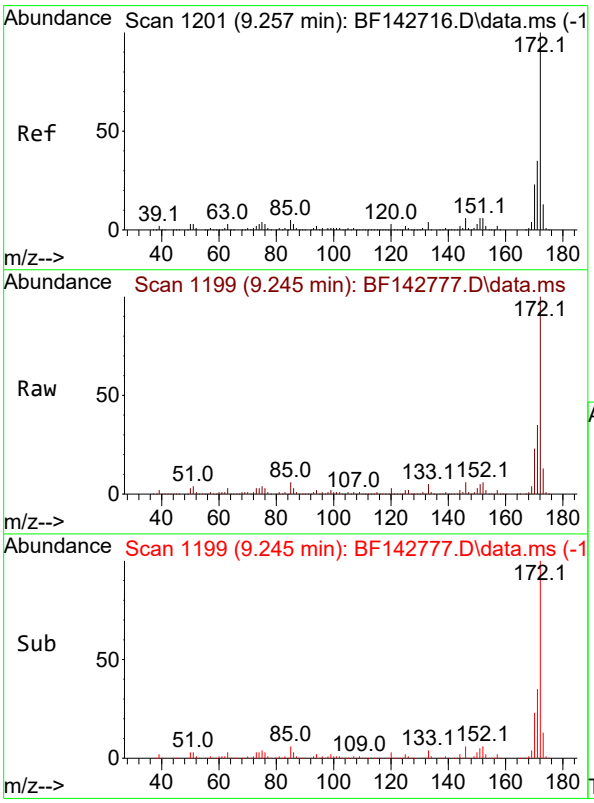
#42
2,4,6-Tribromophenol
Concen: 135.122 ng
RT: 10.716 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Instrument :
BNA_F
ClientSampleId :
MW-10

Tgt Ion:330 Resp: 223791

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.0	115.6
141	31.0	25.4	38.0

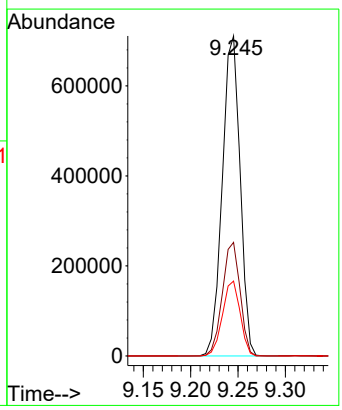


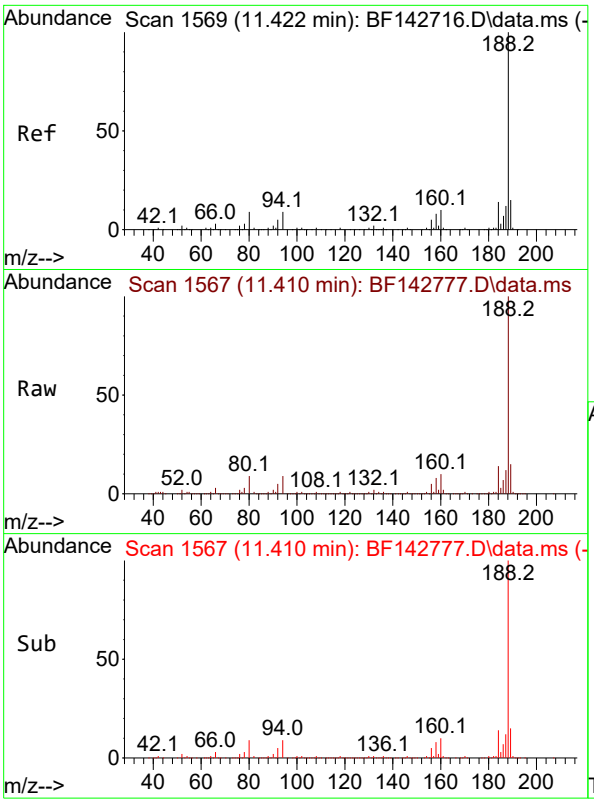


#45
2-Fluorobiphenyl
Concen: 81.877 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.012 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Tgt Ion:172 Resp: 931307

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	23.4	18.6	27.8



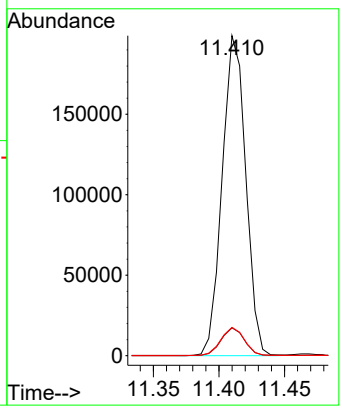


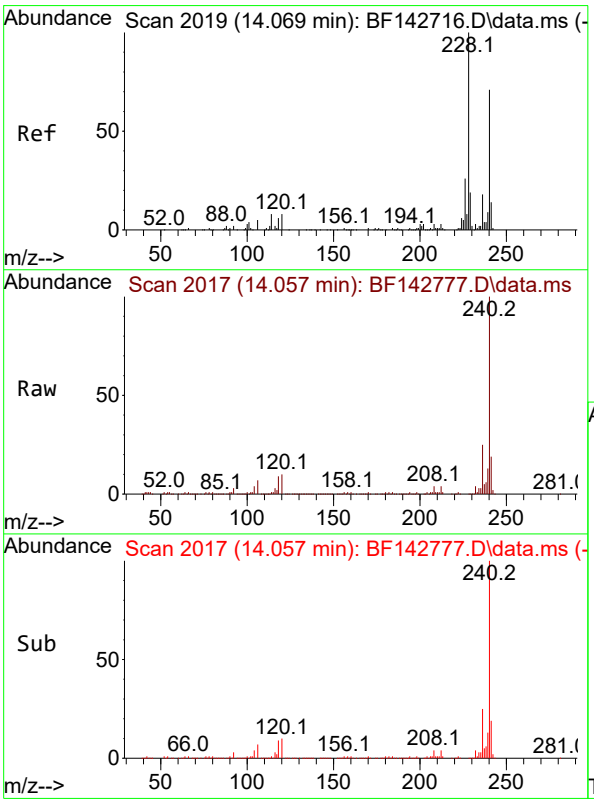
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Instrument :
BNA_F
ClientSampleId :
MW-10

Tgt Ion:188 Resp: 248862

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.8	10.2
80	8.9	7.1	10.7

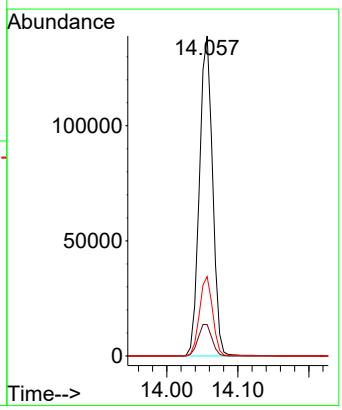


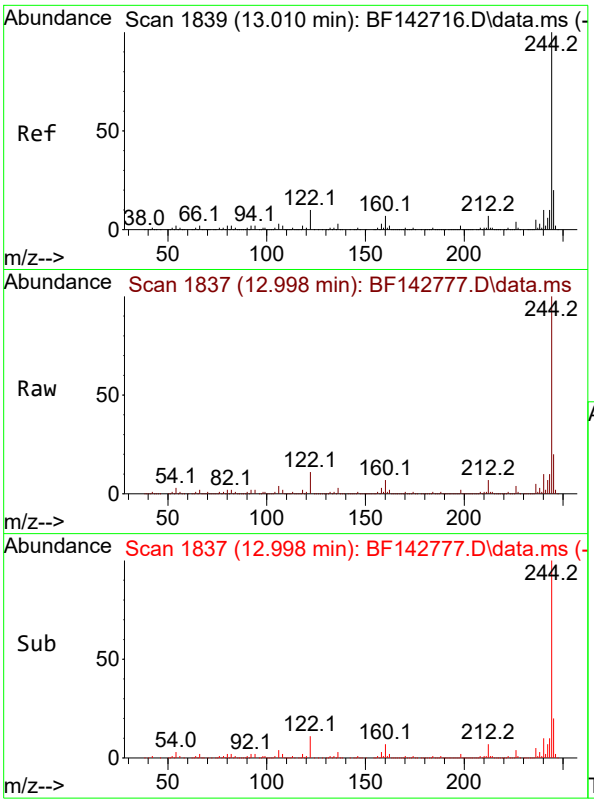


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.012 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Tgt Ion:240 Resp: 179367

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.5	12.7
236	24.8	20.1	30.1



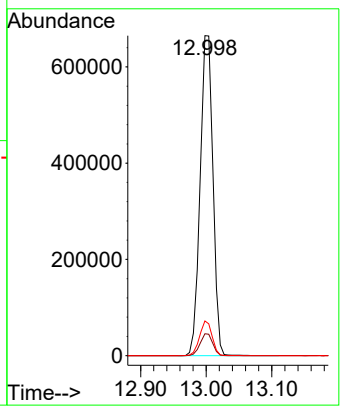


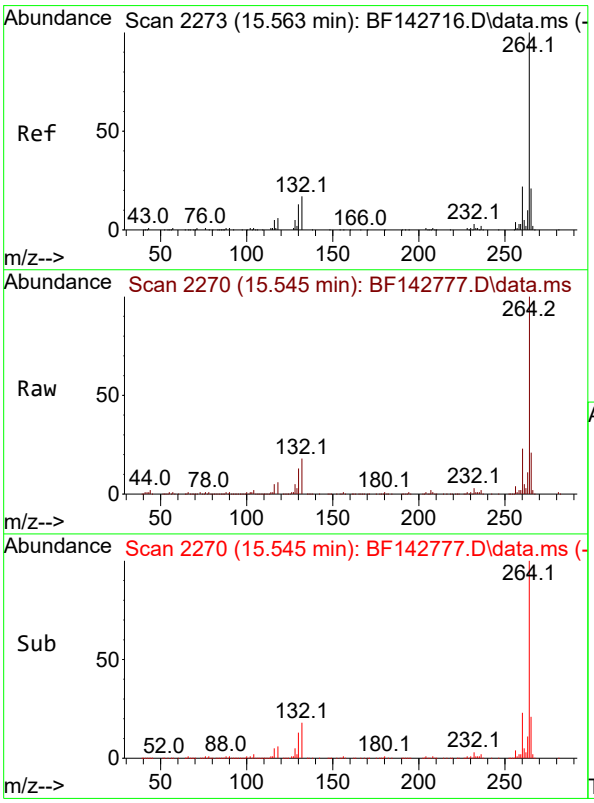
#79
Terphenyl-d14
Concen: 69.431 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Instrument :
BNA_F
ClientSampleId :
MW-10

Tgt Ion:244 Resp: 906743

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	10.9	8.3	12.5

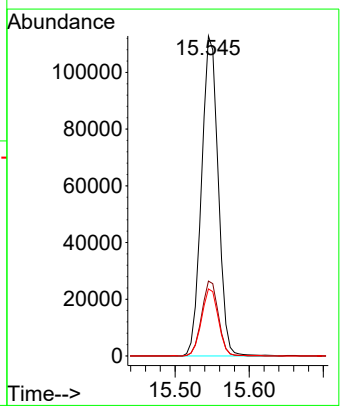




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BF142777.D
Acq: 18 Jun 2025 14:19

Tgt Ion:264 Resp: 176221

Ion	Ratio	Lower	Upper
264	100		
260	23.4	17.8	26.6
265	21.0	16.6	25.0



Raw Data: **BF142778.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-11	SDG No.:	Q2333
Lab Sample ID:	Q2333-04	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF142778.D	1	06/17/25 09:25	06/18/25 14:49	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	5.00	U	0.75	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	0.55	5.00	ug/L
86-73-7	Fluorene	5.00	U	0.63	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	0.50	5.00	ug/L
120-12-7	Anthracene	5.00	U	0.61	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	0.82	5.00	ug/L
129-00-0	Pyrene	5.00	U	0.50	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	0.45	5.00	ug/L
218-01-9	Chrysene	5.00	U	0.44	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	0.69	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	91.5		67 - 132	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.9		52 - 132	85%	SPK: 100
1718-51-0	Terphenyl-d14	68.3		42 - 152	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73000	6.881			
1146-65-2	Naphthalene-d8	285000	8.163			
15067-26-2	Acenaphthene-d10	155000	9.922			
1517-22-2	Phenanthrene-d10	263000	11.41			
1719-03-5	Chrysene-d12	182000	14.057			
1520-96-3	Perylene-d12	179000	15.545			

Raw Data: **BF142778.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-11	SDG No.:	Q2333
Lab Sample ID:	Q2333-04	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF142778.D	1	06/17/25 09:25	06/18/25 14:49	PB168509

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: **BF142778.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142778.D
Acq On : 18 Jun 2025 14:49
Operator : RC/JU
Sample : Q2333-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MW-11

Quant Time: Jun 18 15:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

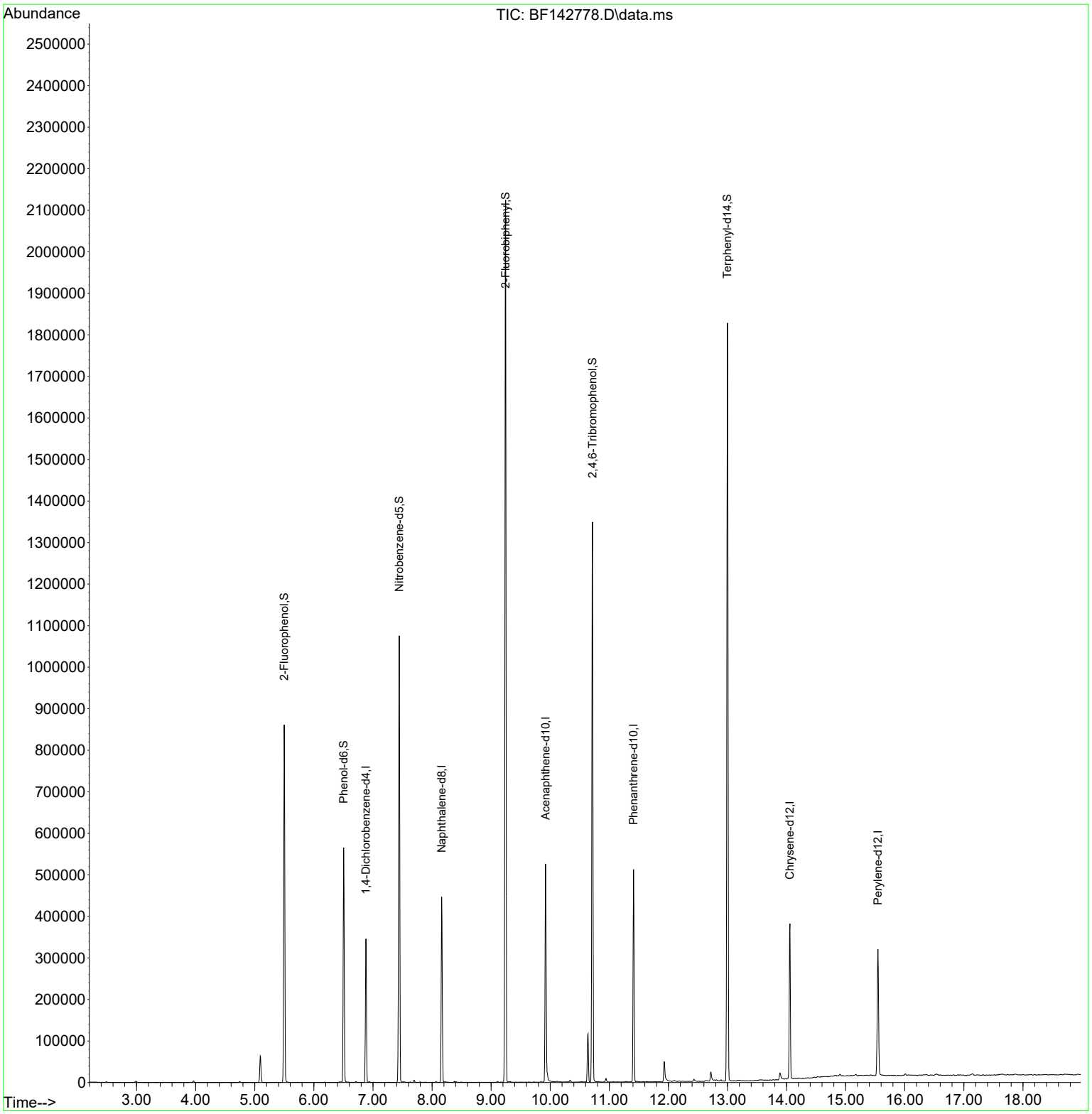
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	72977	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	285294	20.000	ng	-0.02
39) Acenaphthene-d10	9.922	164	155201	20.000	ng	-0.02
64) Phenanthrene-d10	11.410	188	263148	20.000	ng	-0.01
76) Chrysene-d12	14.057	240	182331	20.000	ng	-0.01
86) Perylene-d12	15.545	264	179027	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	320480	74.794	ng	0.00
7) Phenol-d6	6.504	99	243127	48.214	ng	-0.02
23) Nitrobenzene-d5	7.445	82	476792	91.463	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	242125	142.344	ng	-0.01
45) 2-Fluorobiphenyl	9.245	172	992238	84.938	ng	-0.01
79) Terphenyl-d14	12.998	244	906241	68.264	ng	-0.01
Target Compounds						Qvalue

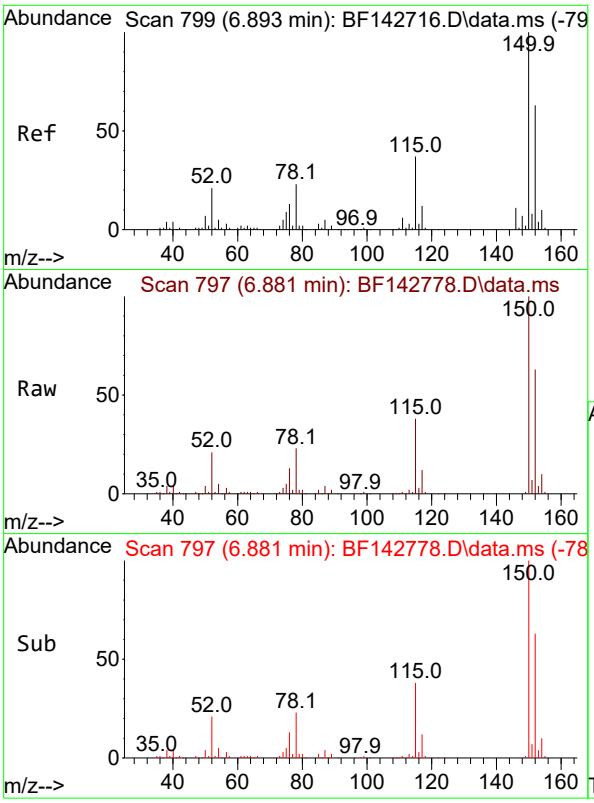
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142778.D
Acq On : 18 Jun 2025 14:49
Operator : RC/JU
Sample : Q2333-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MW-11

Quant Time: Jun 18 15:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration



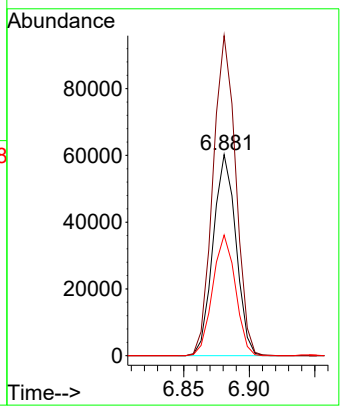


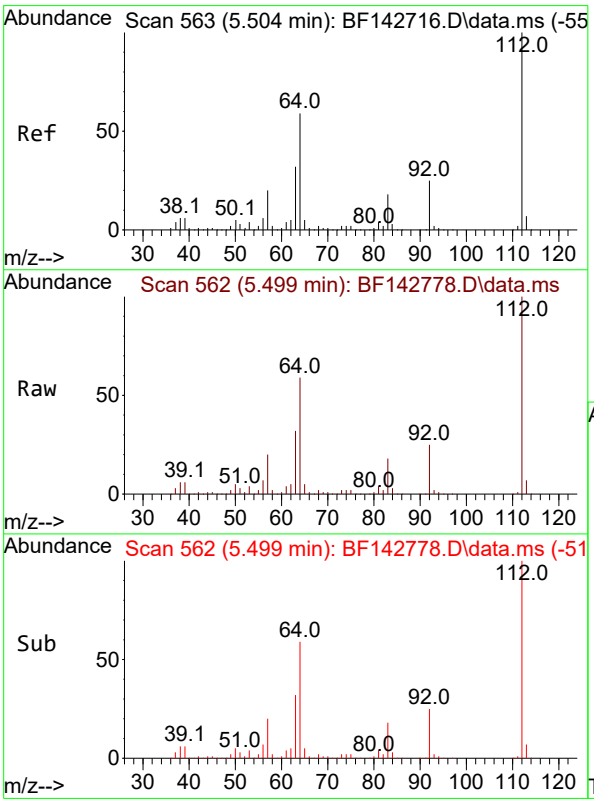
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Instrument :
BNA_F
ClientSampleId :
MW-11

Tgt Ion:152 Resp: 72977

Ion	Ratio	Lower	Upper
152	100		
150	159.1	126.9	190.3
115	60.0	47.0	70.6

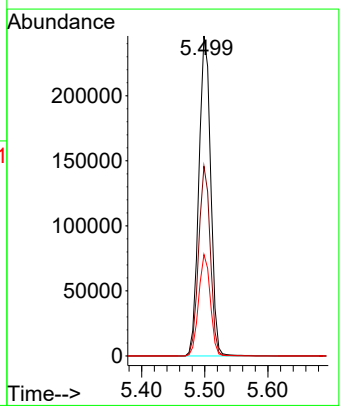


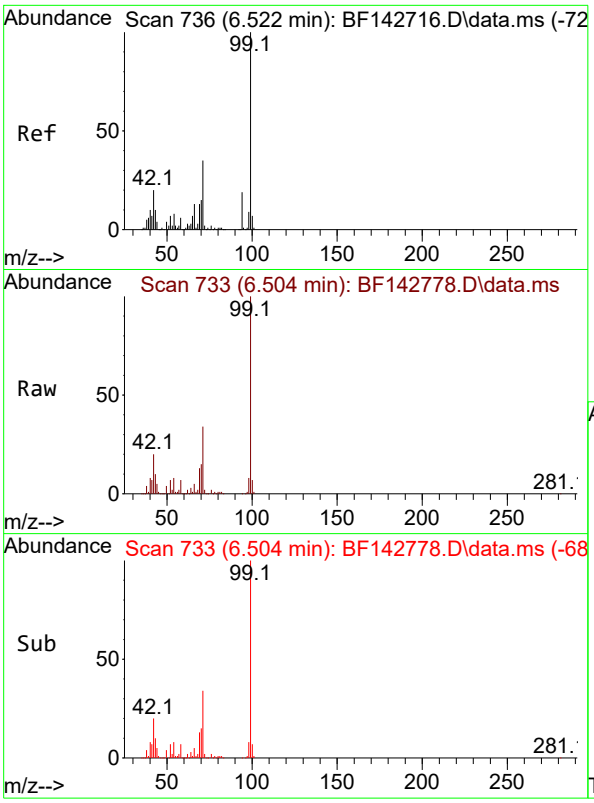


#5
2-Fluorophenol
Concen: 74.794 ng
RT: 5.499 min Scan# 562
Delta R.T. -0.005 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Tgt Ion:112 Resp: 320480

Ion	Ratio	Lower	Upper
112	100		
64	59.3	47.4	71.2
63	31.7	25.4	38.0



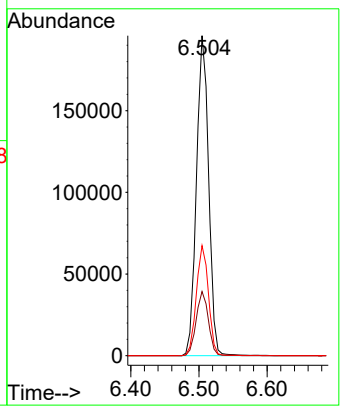


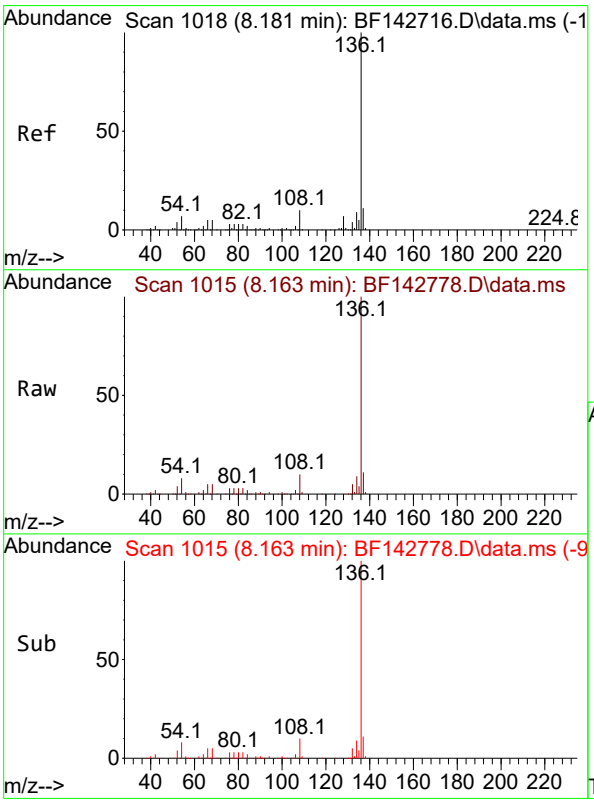
#7
Phenol-d6
Concen: 48.214 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Instrument :
BNA_F
ClientSampleId :
MW-11

Tgt Ion: 99 Resp: 243127

Ion	Ratio	Lower	Upper
99	100		
42	20.1	15.9	23.9
71	34.4	28.0	42.0

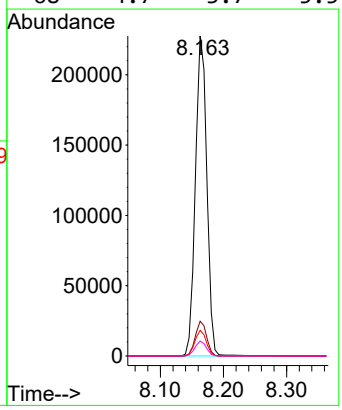


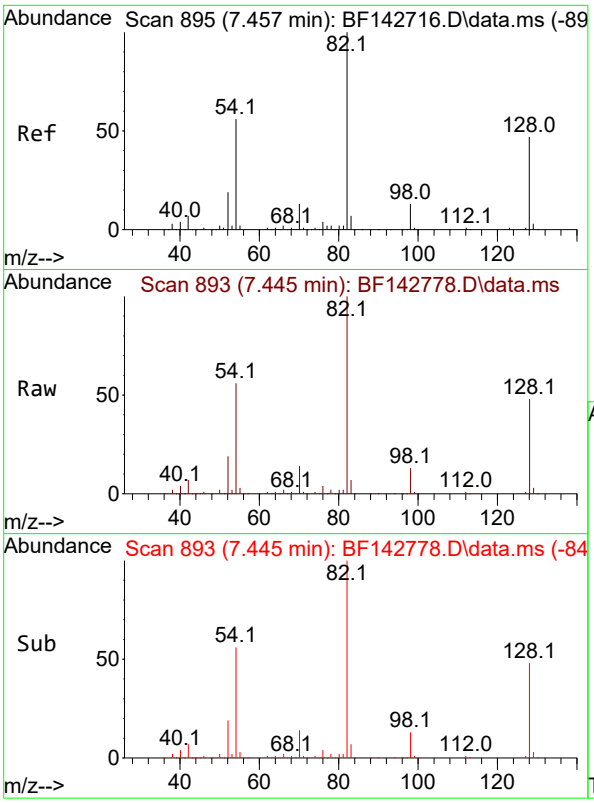


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.018 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Tgt Ion:136 Resp: 285294

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	8.0	5.9	8.9
68	4.7	3.7	5.5



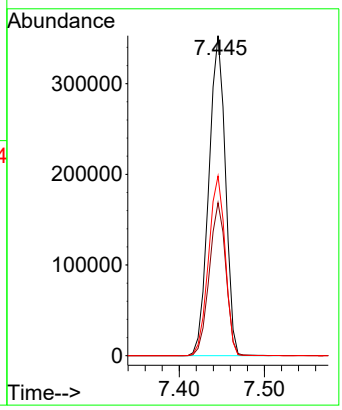


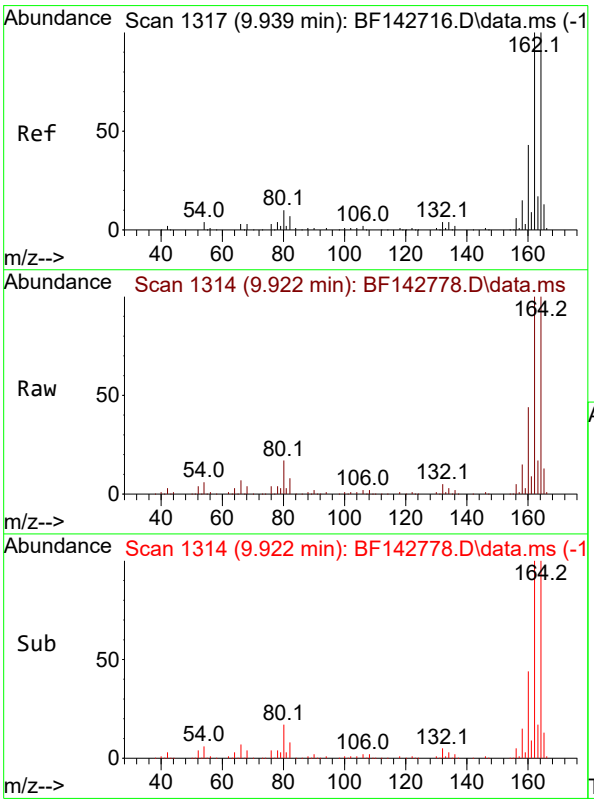
#23
Nitrobenzene-d5
Concen: 91.463 ng
RT: 7.445 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Instrument :
BNA_F
ClientSampleId :
MW-11

Tgt Ion: 82 Resp: 476792

Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.8	56.8
54	56.2	44.9	67.3

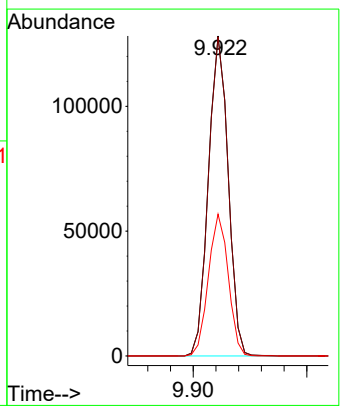


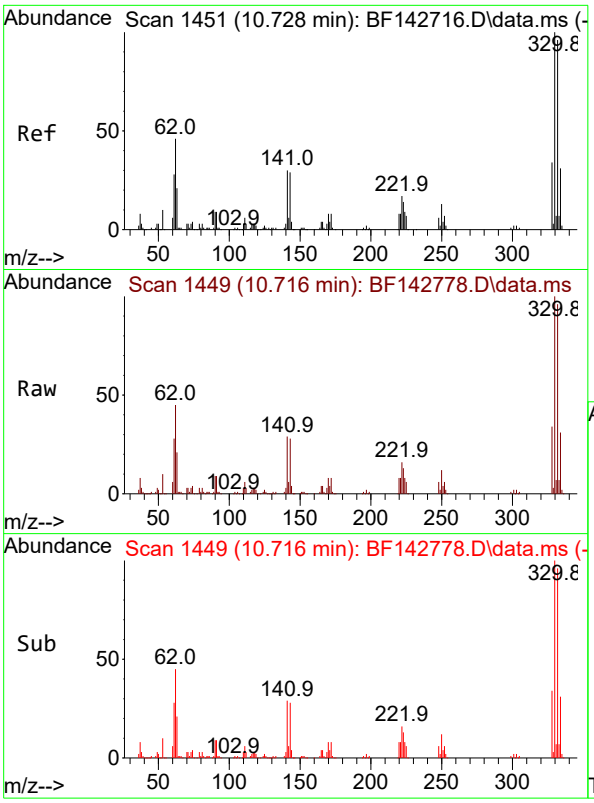


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.018 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Tgt Ion:164 Resp: 155201

Ion	Ratio	Lower	Upper
164	100		
162	99.8	79.9	119.9
160	44.3	34.8	52.2



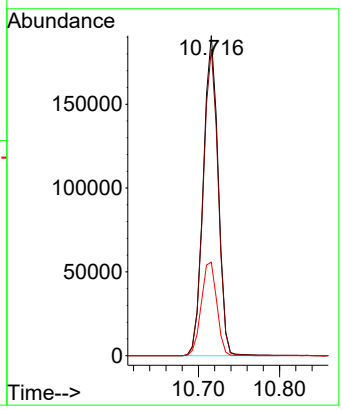


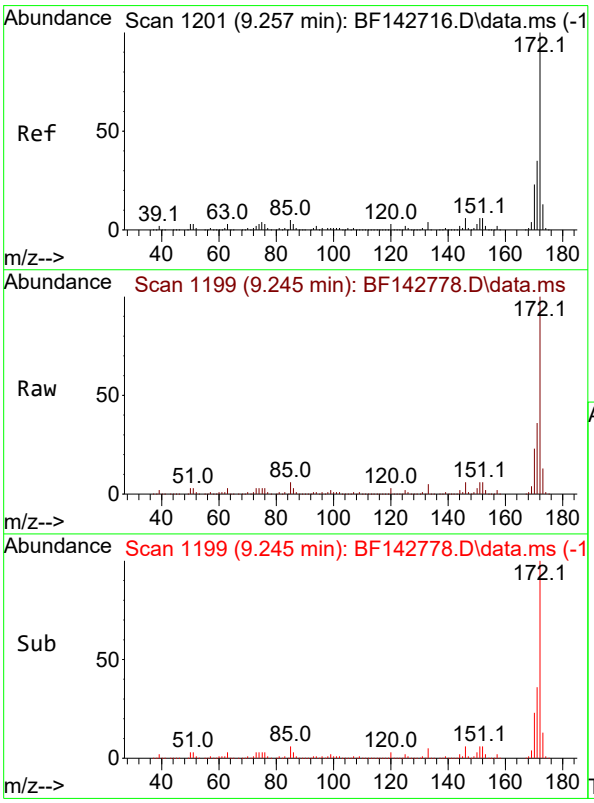
#42
2,4,6-Tribromophenol
Concen: 142.344 ng
RT: 10.716 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Instrument :
BNA_F
ClientSampleId :
MW-11

Tgt Ion:330 Resp: 242125

Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.0	115.6
141	30.5	25.4	38.0

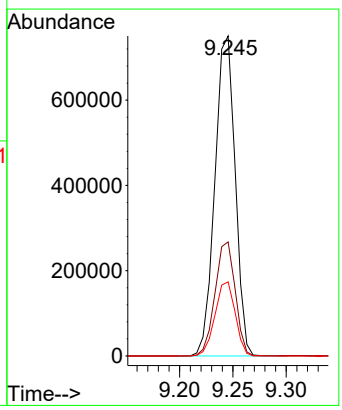


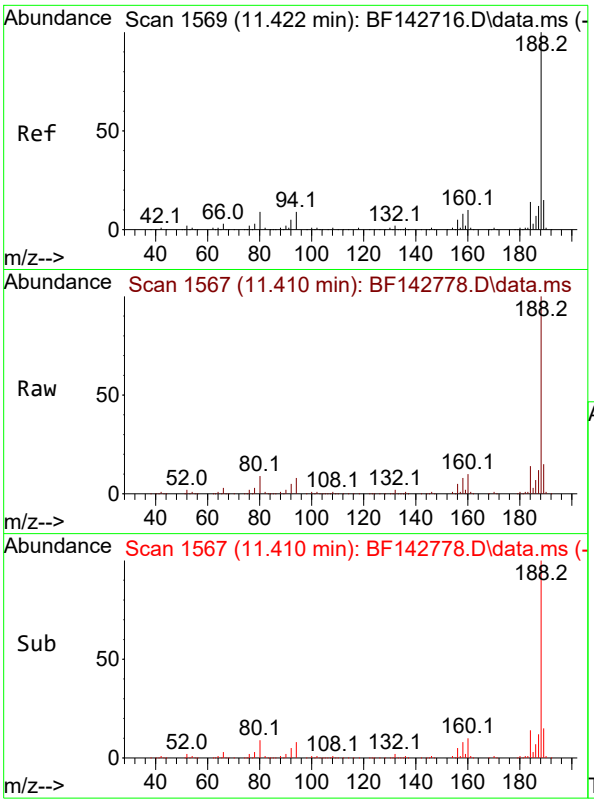


#45
2-Fluorobiphenyl
Concen: 84.938 ng
RT: 9.245 min Scan# 1199
Delta R.T. -0.012 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Tgt Ion:172 Resp: 992238

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.1	42.1
170	23.1	18.6	27.8



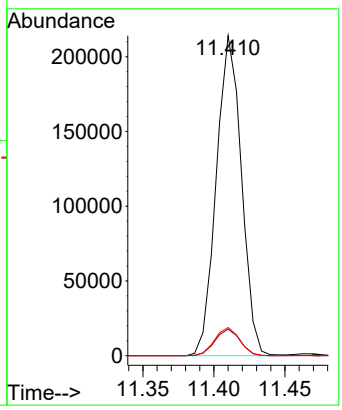


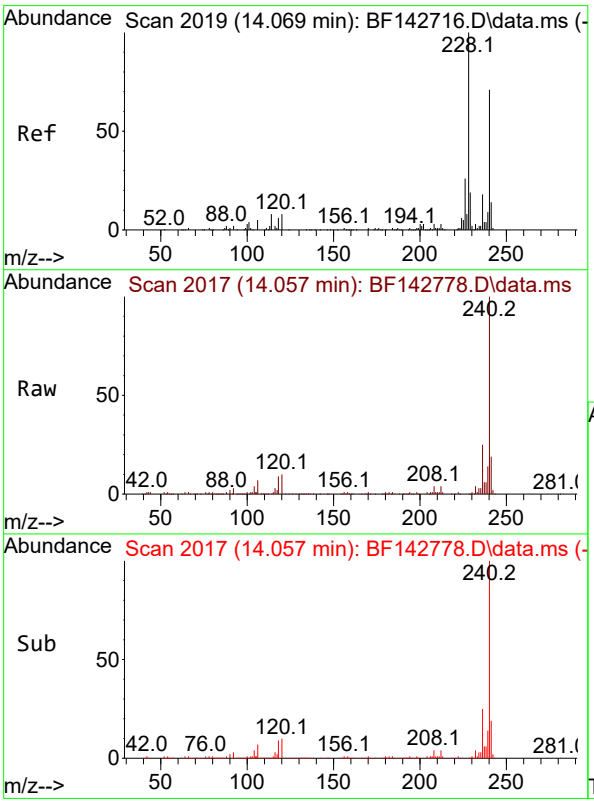
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Instrument :
BNA_F
ClientSampleId :
MW-11

Tgt Ion:188 Resp: 263148

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.8	10.2
80	8.8	7.1	10.7

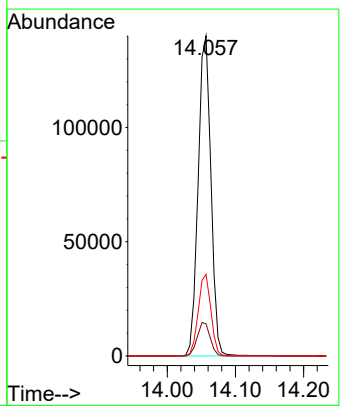


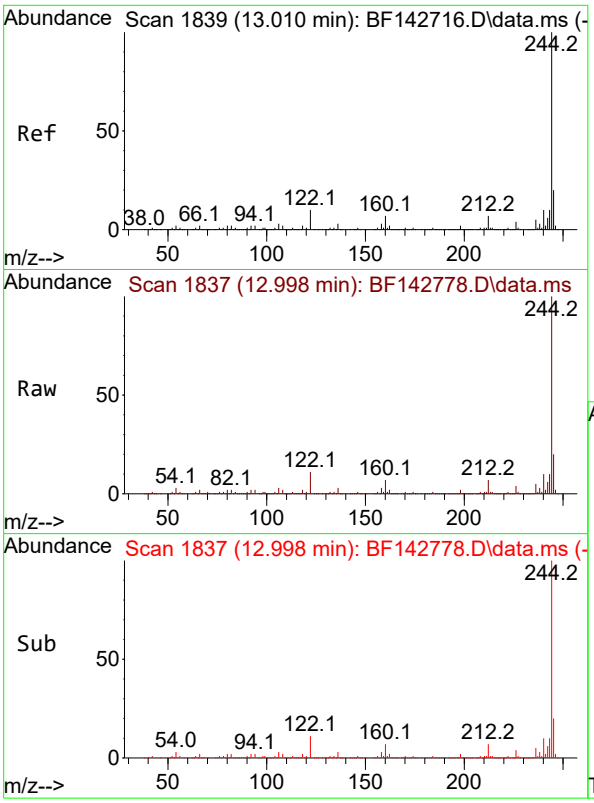


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.012 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Tgt Ion:240 Resp: 182331

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.5	12.7
236	25.4	20.1	30.1



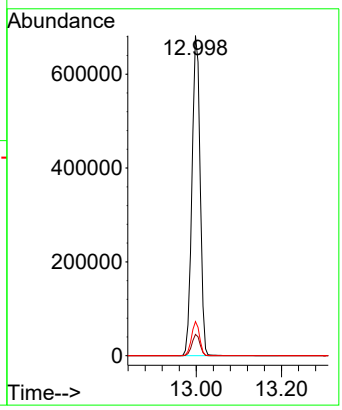


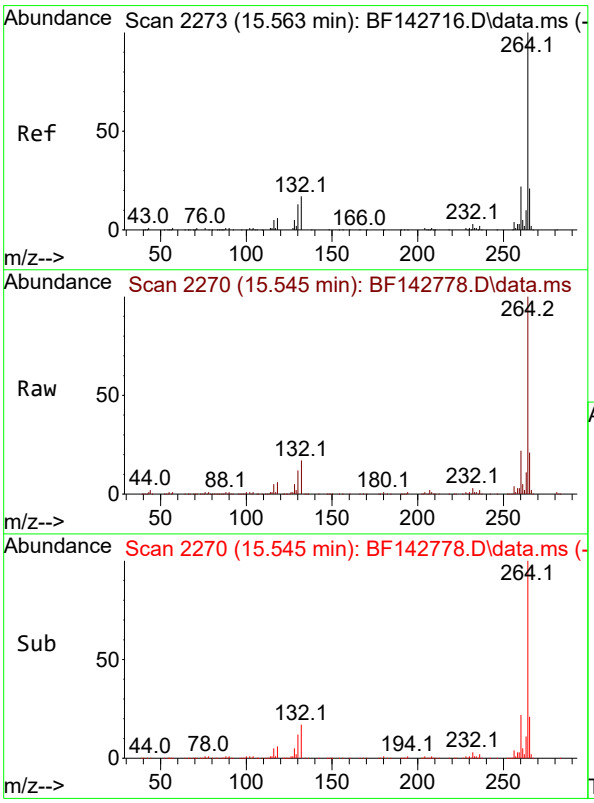
#79
Terphenyl-d14
Concen: 68.264 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Instrument :
BNA_F
ClientSampleId :
MW-11

Tgt Ion:244 Resp: 906241

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	10.6	8.3	12.5

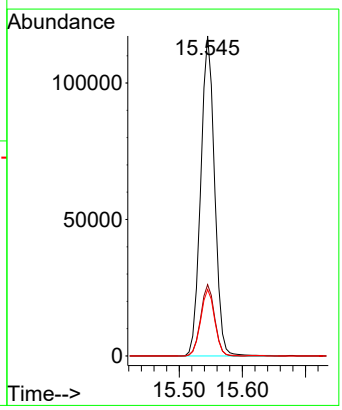




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BF142778.D
Acq: 18 Jun 2025 14:49

Tgt Ion:264 Resp: 179027

Ion	Ratio	Lower	Upper
264	100		
260	22.3	17.8	26.6
265	20.7	16.6	25.0



Raw Data: **BP024998.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-13	SDG No.:	Q2333
Lab Sample ID:	Q2333-05	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024998.D	1	06/17/25 09:25	06/18/25 17:30	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	5.20	U	0.77	5.20	ug/L
83-32-9	Acenaphthene	5.20	U	0.57	5.20	ug/L
86-73-7	Fluorene	5.20	U	0.65	5.20	ug/L
85-01-8	Phenanthrene	5.20	U	0.52	5.20	ug/L
120-12-7	Anthracene	5.20	U	0.63	5.20	ug/L
206-44-0	Fluoranthene	5.20	U	0.85	5.20	ug/L
129-00-0	Pyrene	5.20	U	0.52	5.20	ug/L
56-55-3	Benzo(a)anthracene	5.20	U	0.46	5.20	ug/L
218-01-9	Chrysene	5.20	U	0.45	5.20	ug/L
205-99-2	Benzo(b)fluoranthene	5.20	U	0.51	5.20	ug/L
207-08-9	Benzo(k)fluoranthene	5.20	U	0.49	5.20	ug/L
50-32-8	Benzo(a)pyrene	5.20	U	0.57	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.20	U	0.61	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.20	U	0.69	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	5.20	U	0.71	5.20	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	87.3		67 - 132	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.8		52 - 132	85%	SPK: 100
1718-51-0	Terphenyl-d14	81.3		42 - 152	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	278000	7.607			
1146-65-2	Naphthalene-d8	1100000	10.378			
15067-26-2	Acenaphthene-d10	687000	14.254			
1517-22-2	Phenanthrene-d10	1380000	17.066			
1719-03-5	Chrysene-d12	1450000	21.495			
1520-96-3	Perylene-d12	1600000	24.759			

Raw Data: **BP024998.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-13	SDG No.:	Q2333
Lab Sample ID:	Q2333-05	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024998.D	1	06/17/25 09:25	06/18/25 17:30	PB168509

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: **BP024998.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024998.D
Acq On : 18 Jun 2025 17:30
Operator : RC/JU
Sample : Q2333-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
MW-13

Quant Time: Jun 18 18:42:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.607	152	277507	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	1098582	20.000	ng	0.00
39) Acenaphthene-d10	14.254	164	686732	20.000	ng	0.00
64) Phenanthrene-d10	17.066	188	1378048	20.000	ng	0.00
76) Chrysene-d12	21.495	240	1454707	20.000	ng	0.01
86) Perylene-d12	24.759	264	1598176	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	1253209	75.380	ng	0.00
7) Phenol-d6	6.819	99	997486	45.347	ng	0.00
23) Nitrobenzene-d5	8.760	82	1973253	87.282	ng	0.00
42) 2,4,6-Tribromophenol	15.783	330	1482681	156.163	ng	0.00
45) 2-Fluorobiphenyl	12.854	172	4321608	84.774	ng	0.00
79) Terphenyl-d14	19.783	244	6602602	81.346	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.784	122	96755m	8.442	ng	

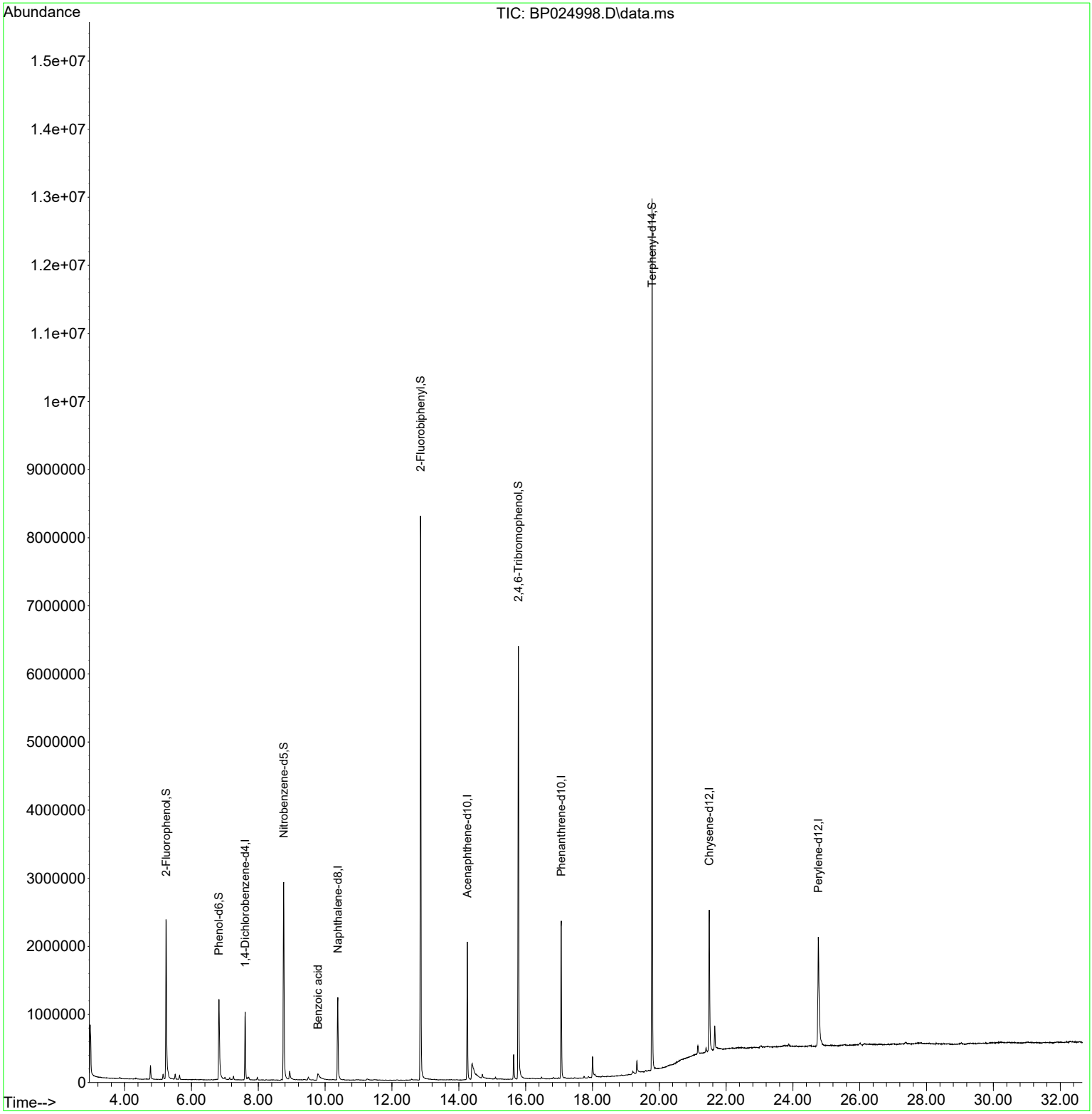
(#) = qualifier out of range (m) = manual integration (+) = signals summed

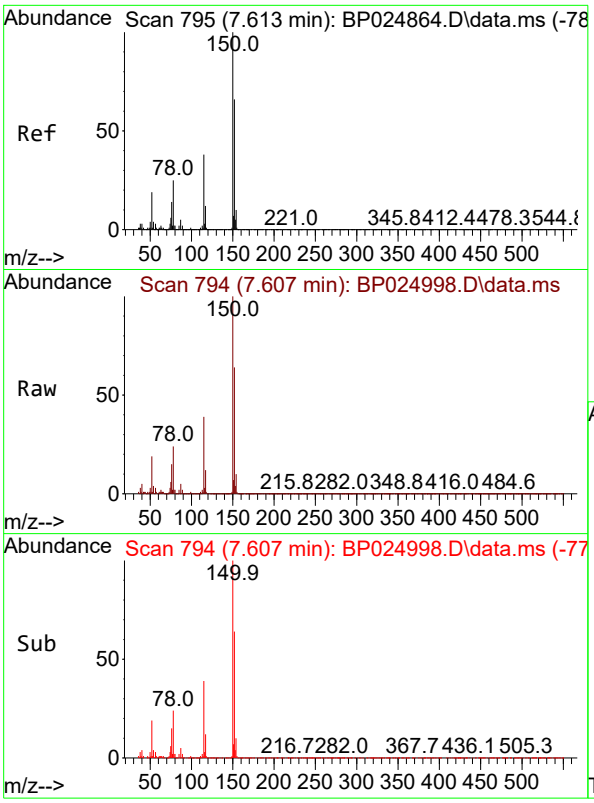
Sample Results: **BP024998.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024998.D
Acq On : 18 Jun 2025 17:30
Operator : RC/JU
Sample : Q2333-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
MW-13

Quant Time: Jun 18 18:42:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



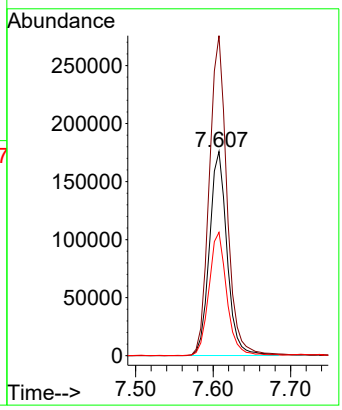


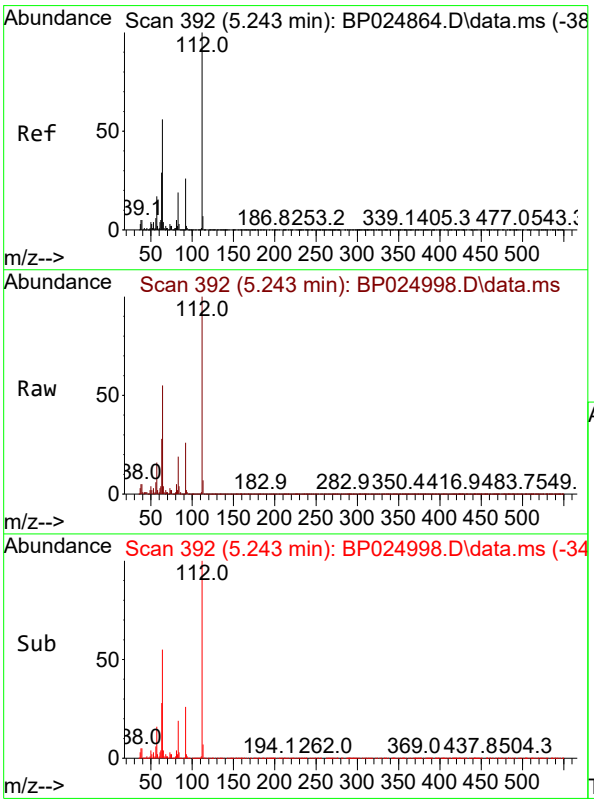
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.607 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Instrument :
BNA_P
ClientSampleId :
MW-13

Tgt Ion:152 Resp: 277507

Ion	Ratio	Lower	Upper
152	100		
150	156.7	122.1	183.1
115	60.4	46.4	69.6

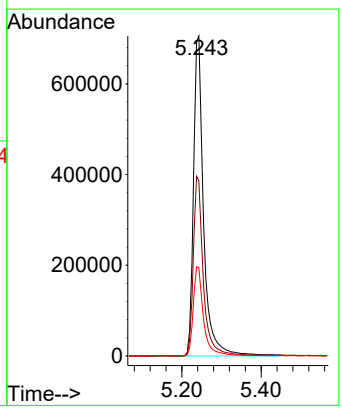


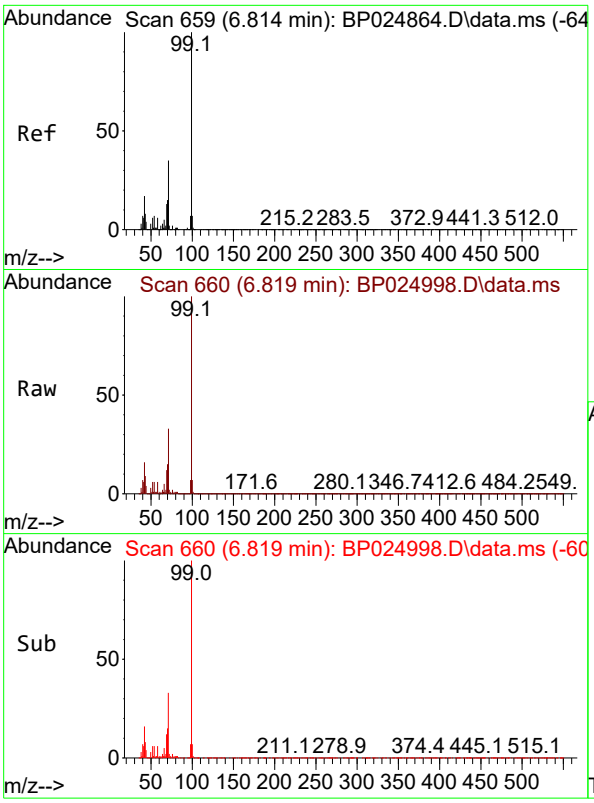


#5
2-Fluorophenol
Concen: 75.380 ng
RT: 5.243 min Scan# 392
Delta R.T. -0.000 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Tgt Ion:112 Resp: 1253209

Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.7	67.1
63	27.7	23.5	35.3



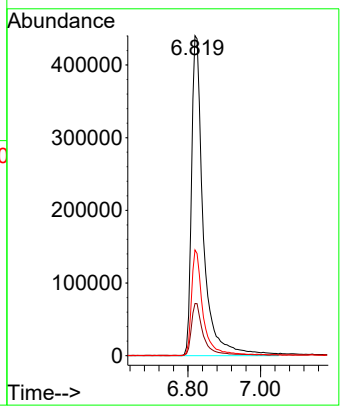


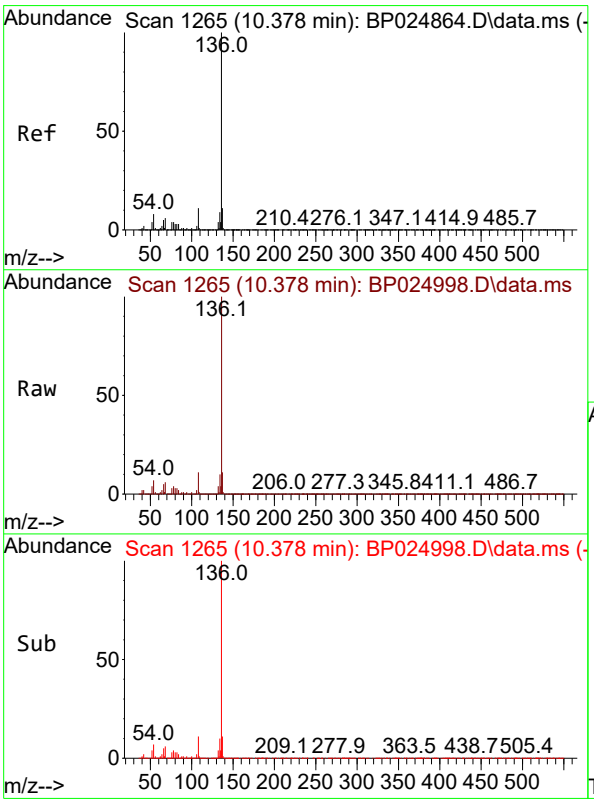
#7
Phenol-d6
Concen: 45.347 ng
RT: 6.819 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Instrument :
BNA_P
ClientSampleId :
MW-13

Tgt Ion: 99 Resp: 997486

Ion	Ratio	Lower	Upper
99	100		
42	16.3	13.4	20.2
71	33.1	27.6	41.4

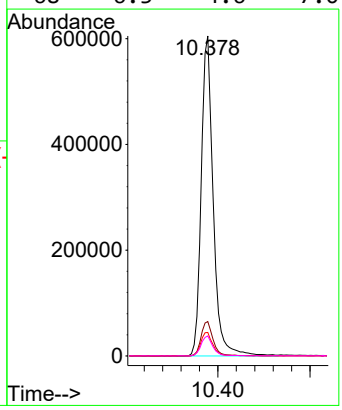


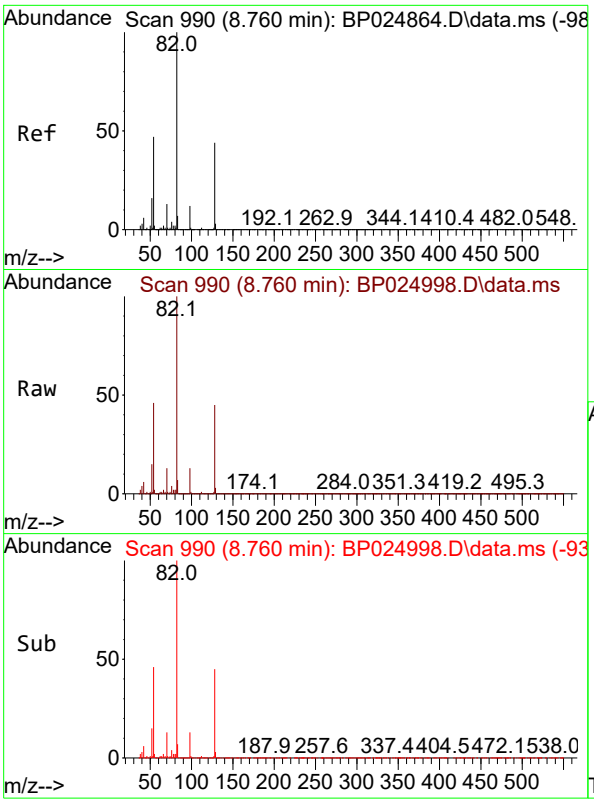


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.378 min Scan# 1265
Delta R.T. -0.000 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Tgt Ion:136 Resp: 1098582

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.4	6.1	9.1
68	6.3	4.6	7.0



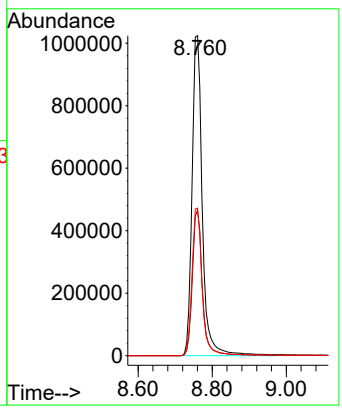


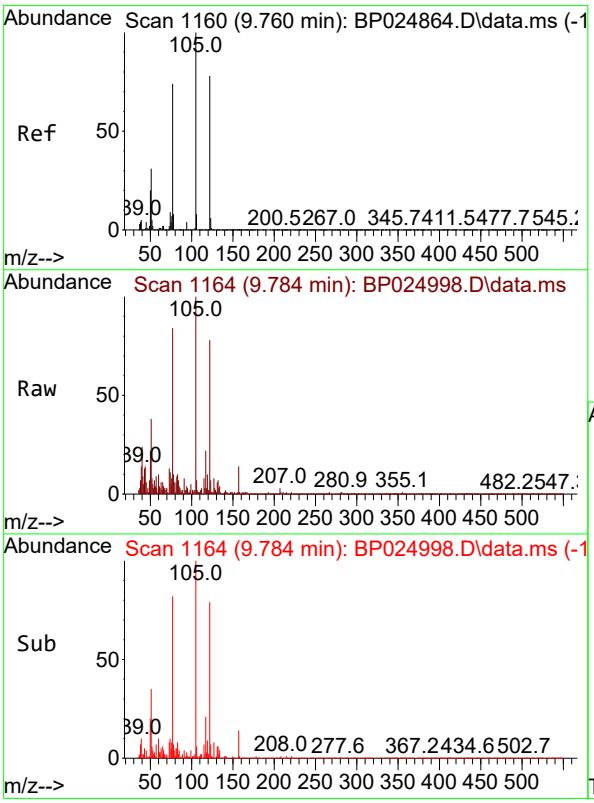
#23
Nitrobenzene-d5
Concen: 87.282 ng
RT: 8.760 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Instrument :
BNA_P
ClientSampleId :
MW-13

Tgt Ion: 82 Resp: 1973253

Ion	Ratio	Lower	Upper
82	100		
128	45.4	35.3	52.9
54	46.1	37.4	56.0

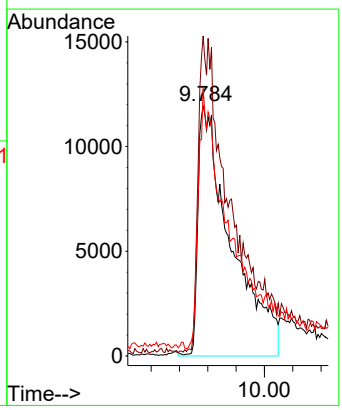


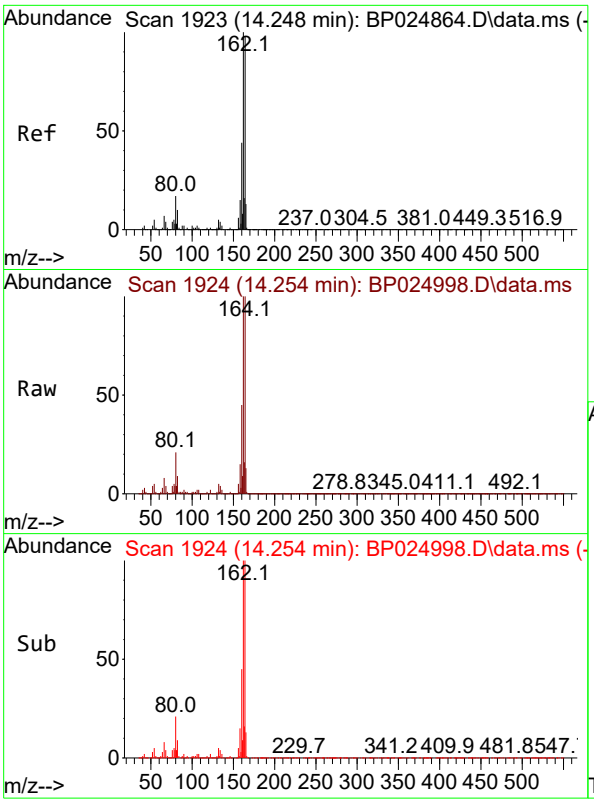


#32
Benzoic acid
Concen: 8.442 ng m
RT: 9.784 min Scan# 1164
Delta R.T. 0.023 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Tgt Ion:122 Resp: 96755

Ion	Ratio	Lower	Upper
122	100		
105	128.2	107.1	147.1
77	107.1	75.1	115.1



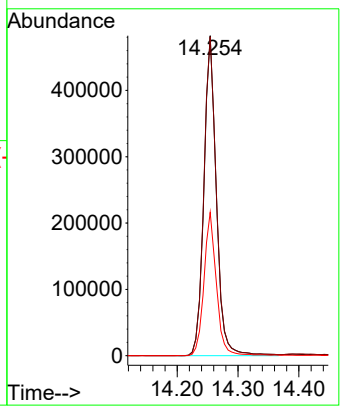


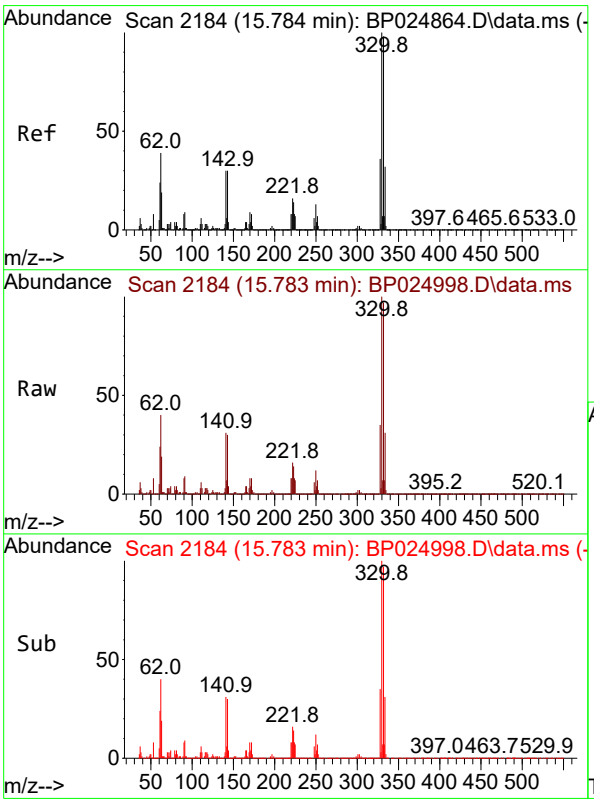
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.254 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Instrument :
BNA_P
ClientSampleId :
MW-13

Tgt Ion:164 Resp: 686732

Ion	Ratio	Lower	Upper
164	100		
162	99.7	81.6	122.4
160	44.8	36.2	54.2

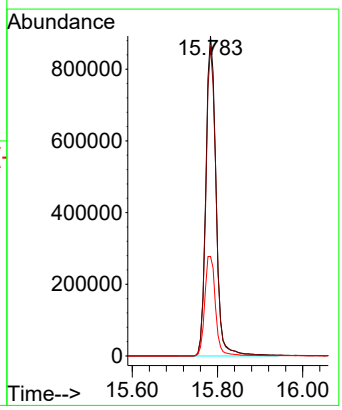


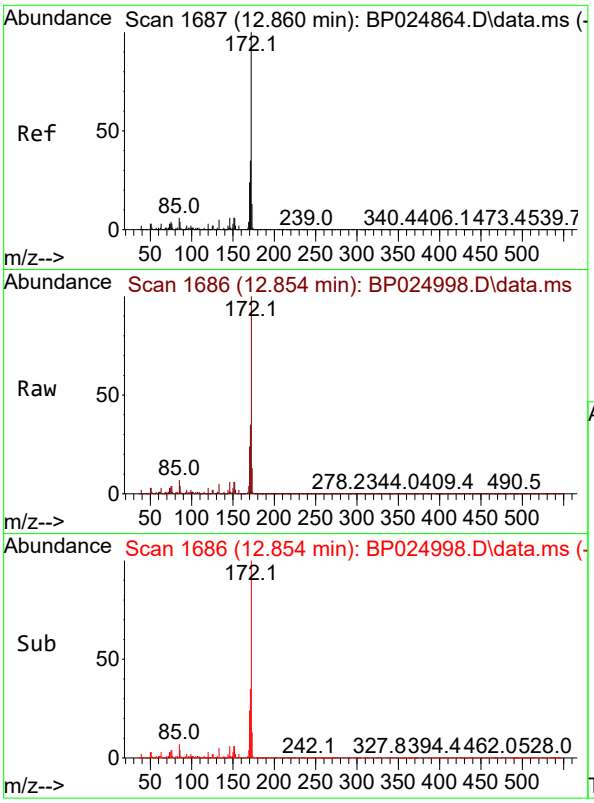


#42
2,4,6-Tribromophenol
Concen: 156.163 ng
RT: 15.783 min Scan# 2184
Delta R.T. -0.000 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Tgt Ion:330 Resp: 1482681

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.7	116.5
141	32.9	26.4	39.6



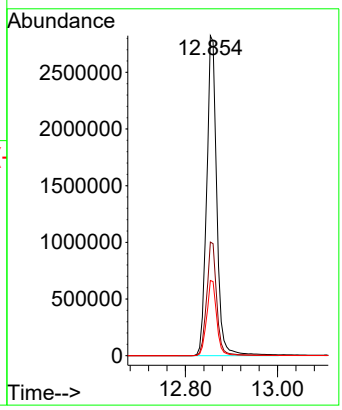


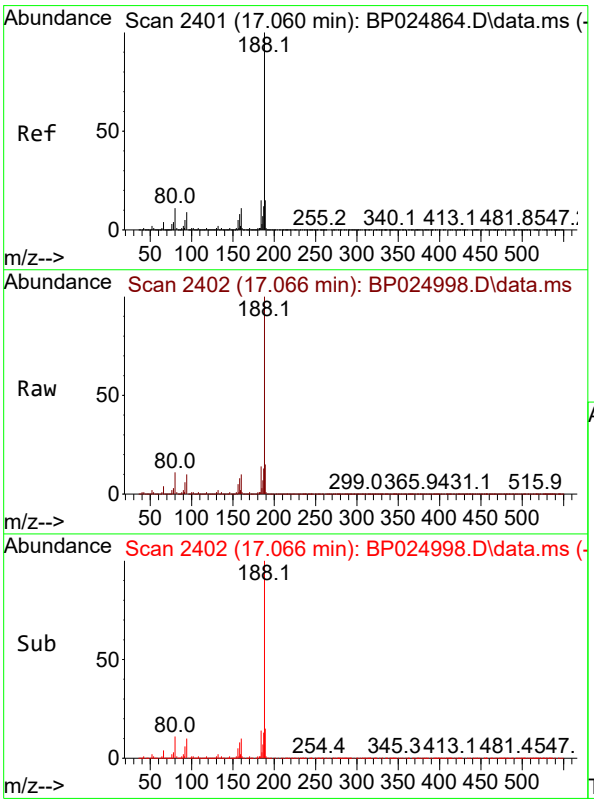
#45
2-Fluorobiphenyl
Concen: 84.774 ng
RT: 12.854 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Instrument :
BNA_P
ClientSampleId :
MW-13

Tgt Ion:172 Resp: 4321608

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	23.5	19.0	28.4

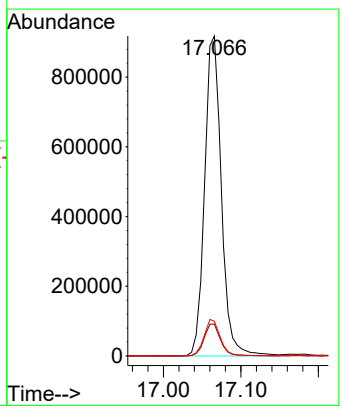


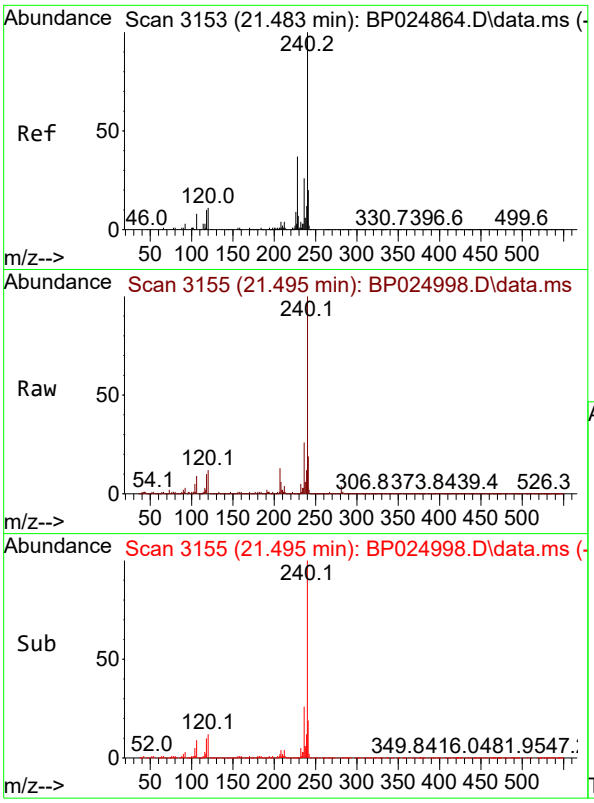


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.066 min Scan# 2402
Delta R.T. 0.006 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Tgt Ion:188 Resp: 1378048

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.3	10.9
80	10.8	8.5	12.7



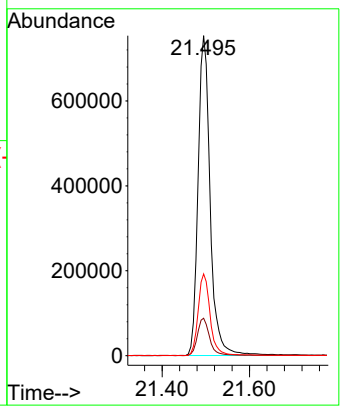


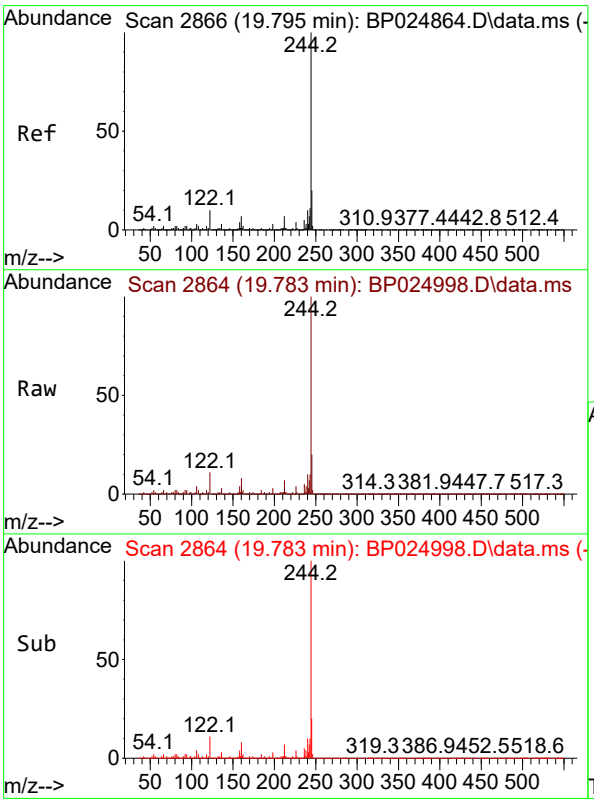
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.495 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Instrument :
BNA_P
ClientSampleId :
MW-13

Tgt Ion:240 Resp: 1454707

Ion	Ratio	Lower	Upper
240	100		
120	11.7	8.9	13.3
236	25.6	20.9	31.3

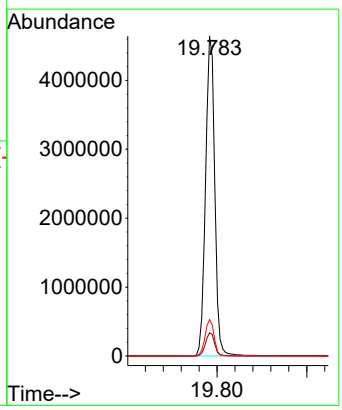


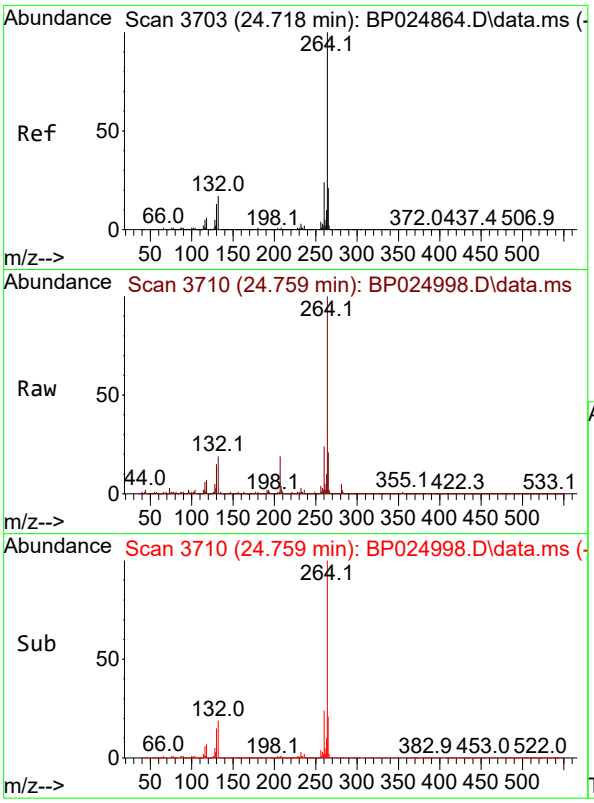


#79
Terphenyl-d14
Concen: 81.346 ng
RT: 19.783 min Scan# 2864
Delta R.T. -0.012 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Tgt Ion:244 Resp: 6602602

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.6	8.4
122	11.3	7.7	11.5



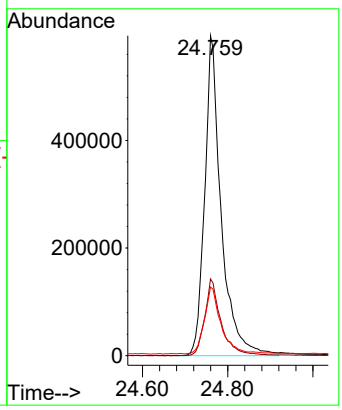


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.759 min Scan# 3
Delta R.T. 0.041 min
Lab File: BP024998.D
Acq: 18 Jun 2025 17:30

Instrument :
BNA_P
ClientSampleId :
MW-13

Tgt Ion:264 Resp: 1598176

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.4
265	21.4	17.4	26.0



Raw Data: **BP024999.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-12	SDG No.:	Q2333
Lab Sample ID:	Q2333-06	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024999.D	1	06/17/25 09:25	06/18/25 18:12	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	5.00	U	0.75	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	0.55	5.00	ug/L
86-73-7	Fluorene	5.00	U	0.63	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	0.50	5.00	ug/L
120-12-7	Anthracene	5.00	U	0.61	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	0.82	5.00	ug/L
129-00-0	Pyrene	5.00	U	0.50	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	0.45	5.00	ug/L
218-01-9	Chrysene	5.00	U	0.44	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	0.69	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	78.8		67 - 132	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.6		52 - 132	75%	SPK: 100
1718-51-0	Terphenyl-d14	75.2		42 - 152	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	259000	7.602			
1146-65-2	Naphthalene-d8	1020000	10.378			
15067-26-2	Acenaphthene-d10	715000	14.26			
1517-22-2	Phenanthrene-d10	1280000	17.072			
1719-03-5	Chrysene-d12	1390000	21.513			
1520-96-3	Perylene-d12	1590000	24.777			

Raw Data: **BP024999.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	06/12/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	06/13/25
Client Sample ID:	MW-12	SDG No.:	Q2333
Lab Sample ID:	Q2333-06	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024999.D	1	06/17/25 09:25	06/18/25 18:12	PB168509

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_P\Data\BP061825\
Data File : BP024999.D
Acq On : 18 Jun 2025 18:12
Operator : RC/JU
Sample : Q2333-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
MW-12

Quant Time: Jun 19 01:25:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

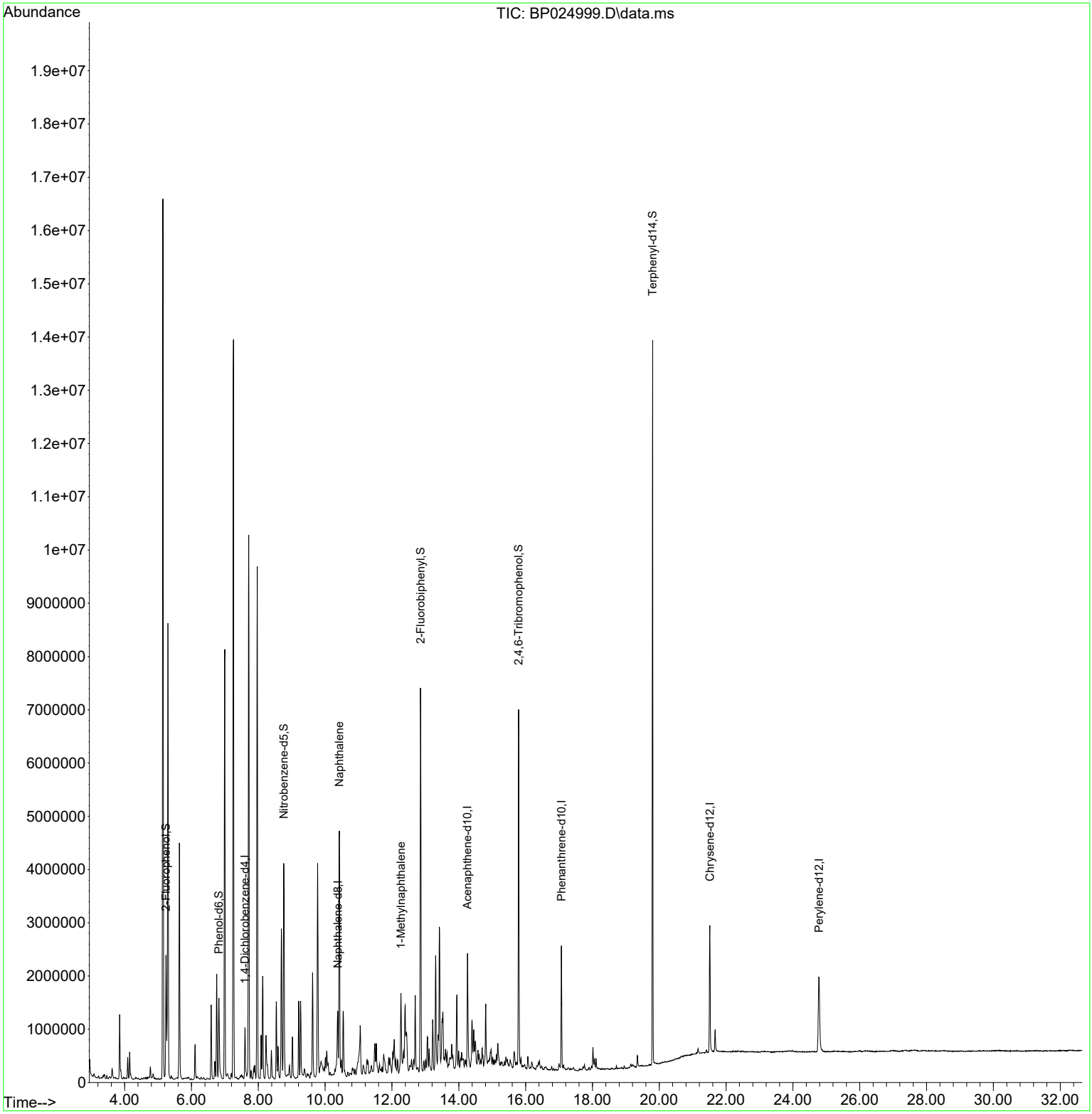
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.602	152	259382	20.000	ng	-0.01
21) Naphthalene-d8	10.378	136	1022681	20.000	ng	0.00
39) Acenaphthene-d10	14.260	164	715185	20.000	ng	0.01
64) Phenanthrene-d10	17.072	188	1282201	20.000	ng	0.01
76) Chrysene-d12	21.513	240	1386217	20.000	ng	0.03
86) Perylene-d12	24.777	264	1591861	20.000	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.237	112	1157860	74.512	ng	0.00
7) Phenol-d6	6.819	99	1012423	49.242	ng	0.00
23) Nitrobenzene-d5	8.760	82	1657484	78.756	ng	0.00
42) 2,4,6-Tribromophenol	15.790	330	1396320	141.216	ng	0.00
45) 2-Fluorobiphenyl	12.854	172	3962225	74.632	ng	0.00
79) Terphenyl-d14	19.801	244	5816931	75.207	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.425	128	3530201	67.359	ng	100
38) 1-Methylnaphthalene	12.266	142	596551	16.785	ng	97

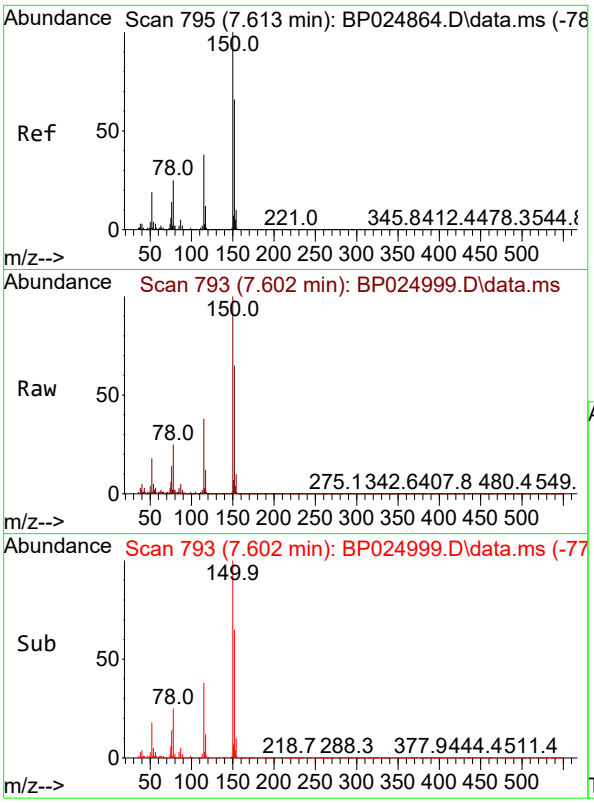
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024999.D
Acq On : 18 Jun 2025 18:12
Operator : RC/JU
Sample : Q2333-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
MW-12

Quant Time: Jun 19 01:25:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



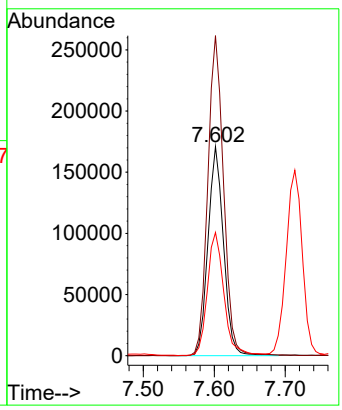


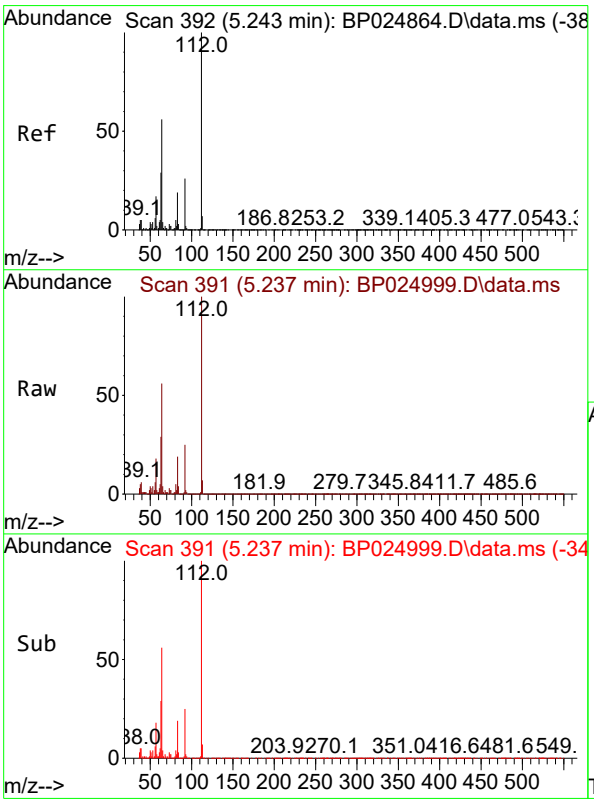
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.602 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Instrument :
BNA_P
ClientSampleId :
MW-12

Tgt Ion:152 Resp: 259382

Ion	Ratio	Lower	Upper
152	100		
150	153.0	122.1	183.1
115	58.9	46.4	69.6

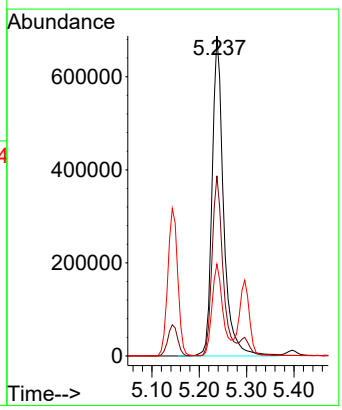


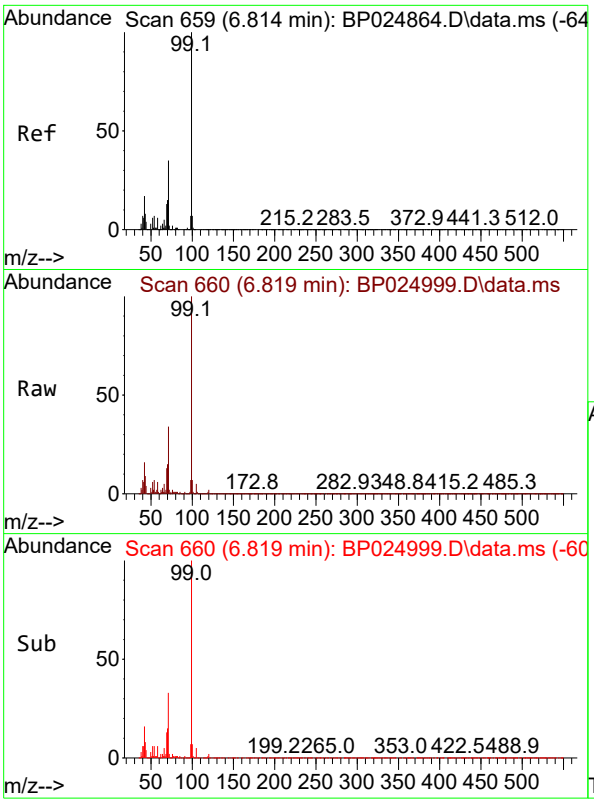


#5
2-Fluorophenol
Concen: 74.512 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Tgt Ion:112 Resp: 1157860

Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.7	67.1
63	28.7	23.5	35.3



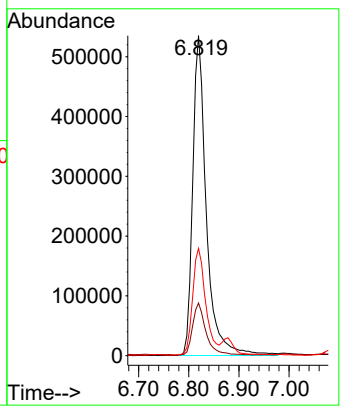


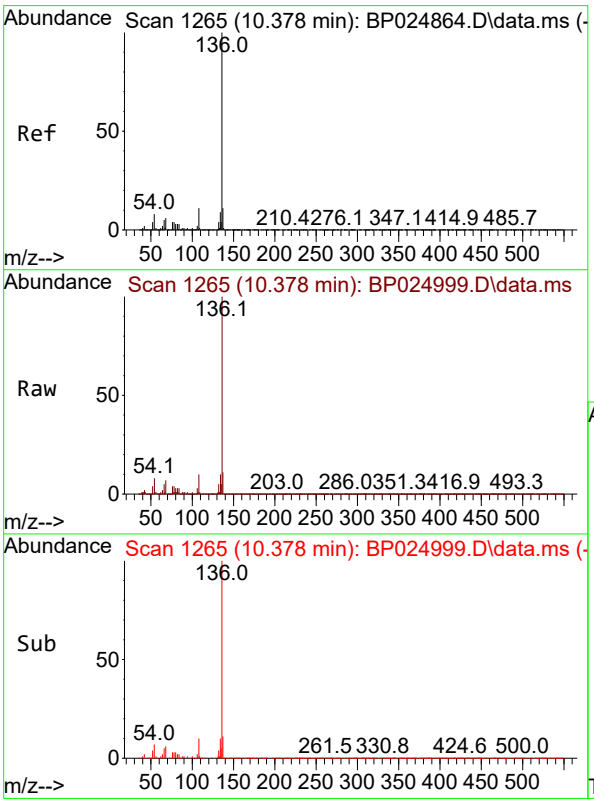
#7
Phenol-d6
Concen: 49.242 ng
RT: 6.819 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Instrument :
BNA_P
ClientSampleId :
MW-12

Tgt Ion: 99 Resp: 1012423

Ion	Ratio	Lower	Upper
99	100		
42	16.4	13.4	20.2
71	33.6	27.6	41.4

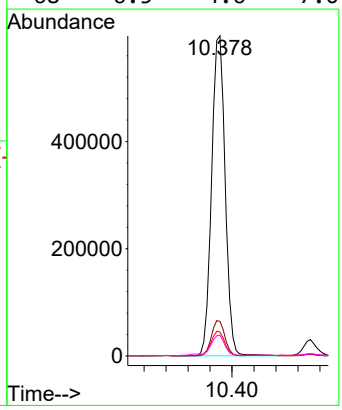


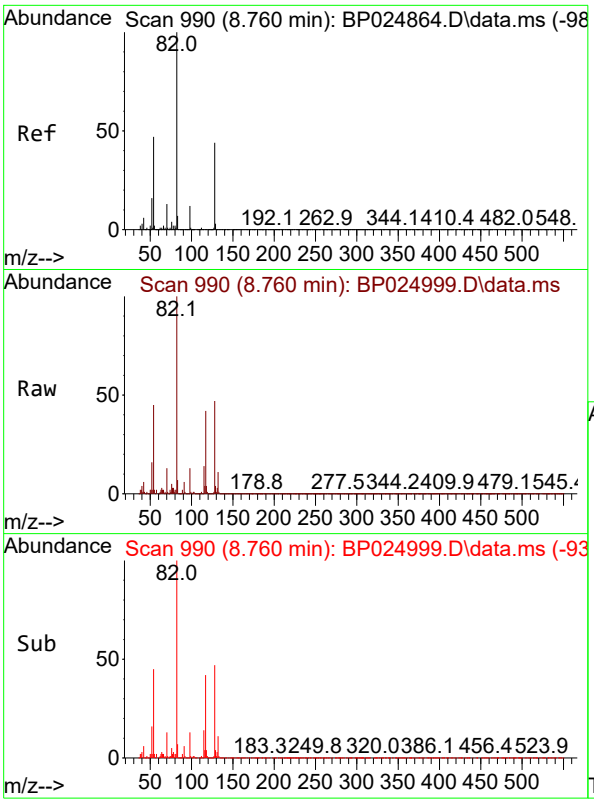


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.378 min Scan# 1265
Delta R.T. 0.000 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Tgt Ion:136 Resp: 1022681

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	7.5	6.1	9.1
68	6.5	4.6	7.0



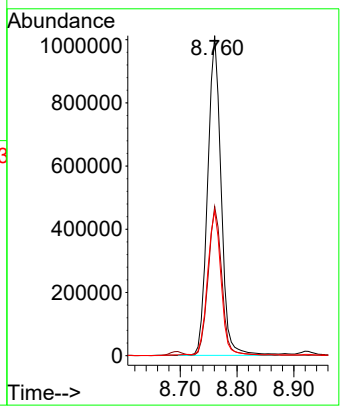


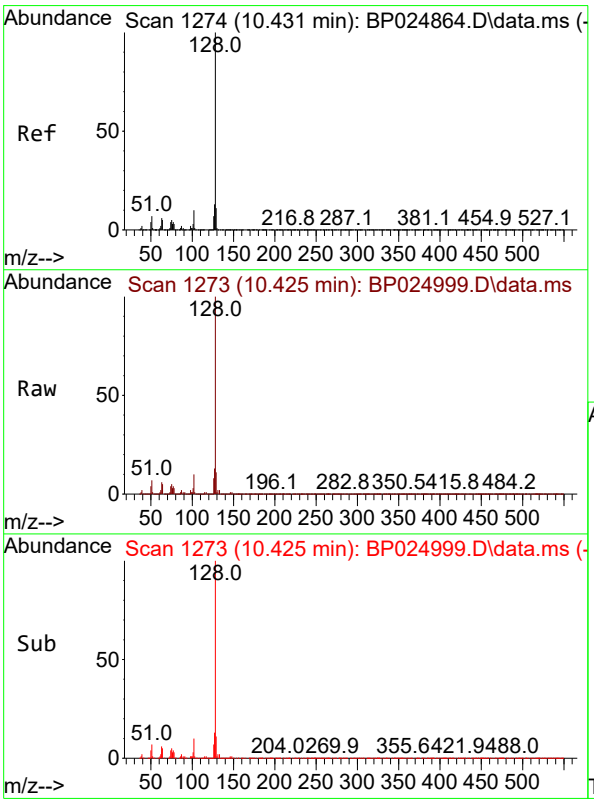
#23
Nitrobenzene-d5
Concen: 78.756 ng
RT: 8.760 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Instrument :
BNA_P
ClientSampleId :
MW-12

Tgt Ion: 82 Resp: 1657484

Ion	Ratio	Lower	Upper
82	100		
128	46.6	35.3	52.9
54	45.3	37.4	56.0

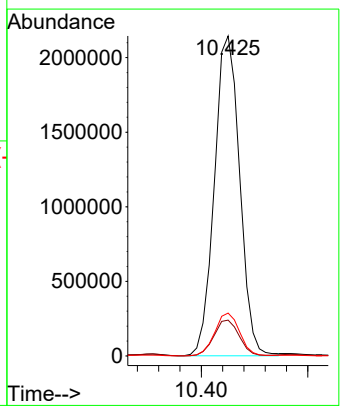


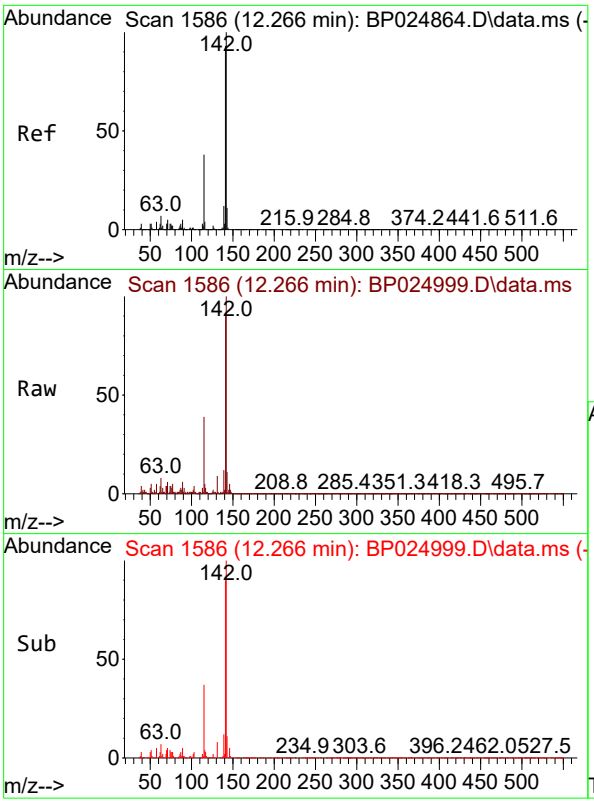


#31
Naphthalene
Concen: 67.359 ng
RT: 10.425 min Scan# 1273
Delta R.T. -0.006 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Tgt Ion:128 Resp: 3530201

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	13.4	10.7	16.1



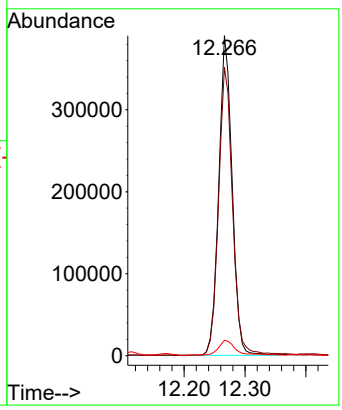


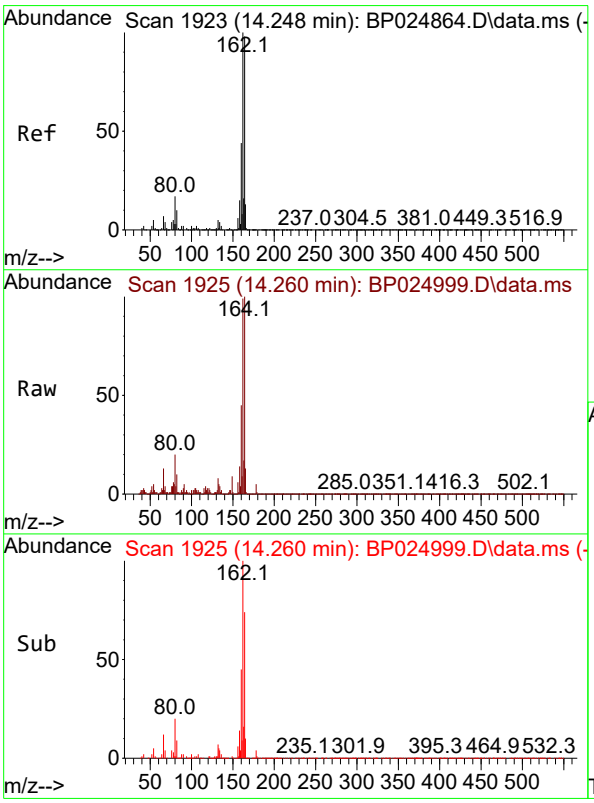
#38
1-Methylnaphthalene
Concen: 16.785 ng
RT: 12.266 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Instrument :
BNA_P
ClientSampleId :
MW-12

Tgt Ion:142 Resp: 596551

Ion	Ratio	Lower	Upper
142	100		
141	90.1	74.7	112.1
116	4.8	3.4	5.0

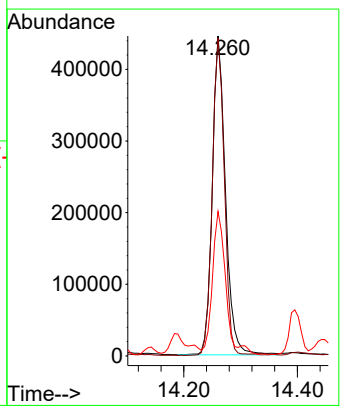


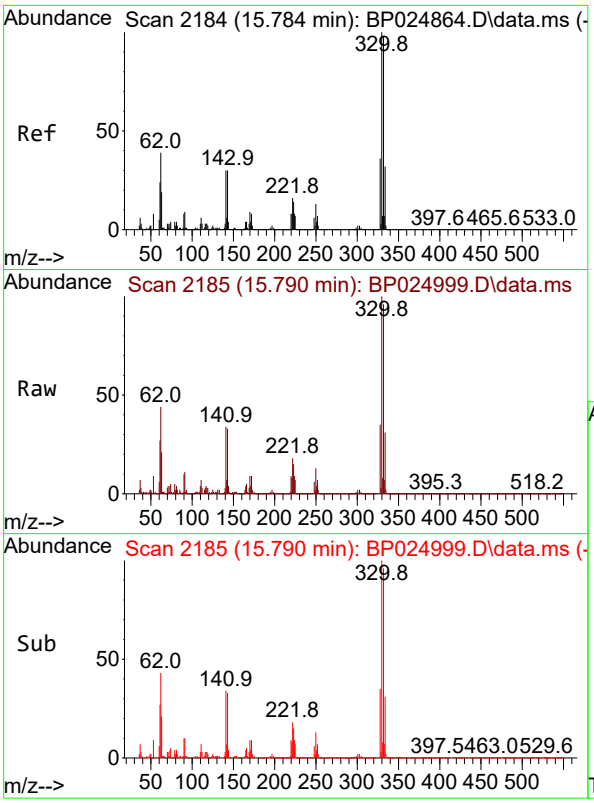


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.260 min Scan# 1925
Delta R.T. 0.012 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Tgt Ion:164 Resp: 715185

Ion	Ratio	Lower	Upper
164	100		
162	99.3	81.6	122.4
160	45.2	36.2	54.2



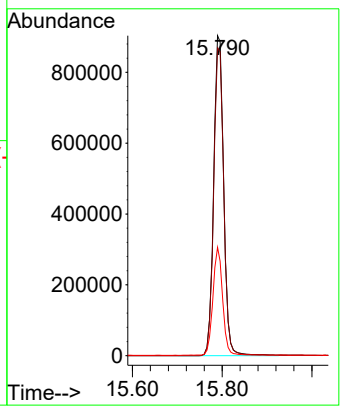


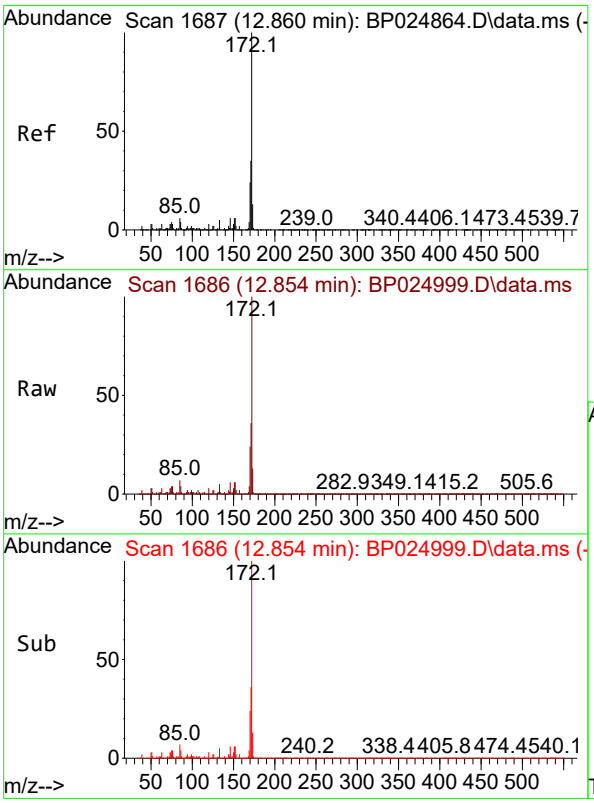
#42
2,4,6-Tribromophenol
Concen: 141.216 ng
RT: 15.790 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Instrument :
BNA_P
ClientSampleId :
MW-12

Tgt Ion:330 Resp: 1396320

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.7	116.5
141	32.9	26.4	39.6

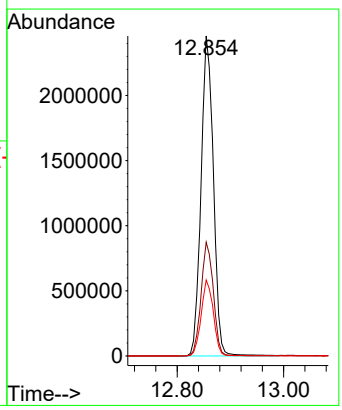


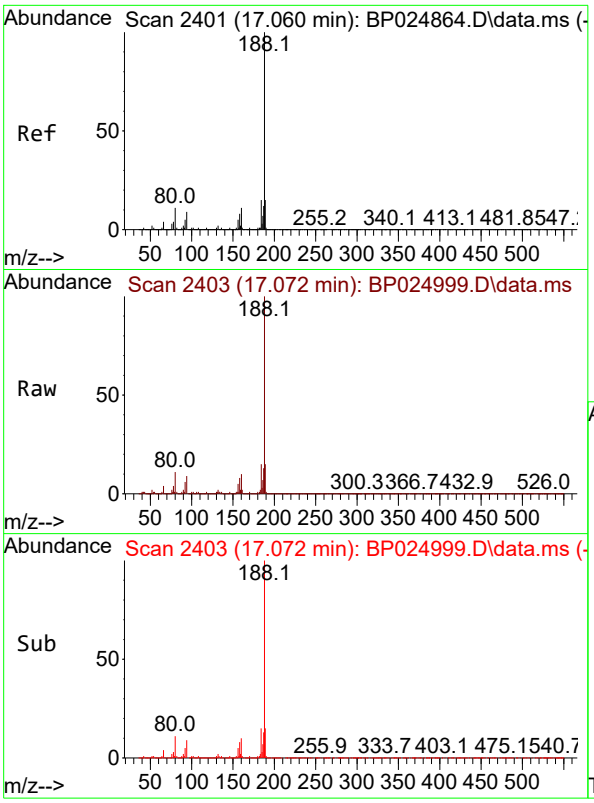


#45
2-Fluorobiphenyl
Concen: 74.632 ng
RT: 12.854 min Scan# 1686
Delta R.T. -0.006 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Tgt Ion:172 Resp: 3962225

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	23.8	19.0	28.4



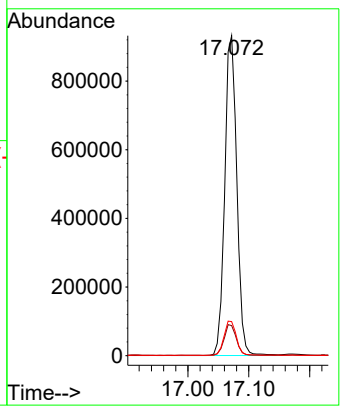


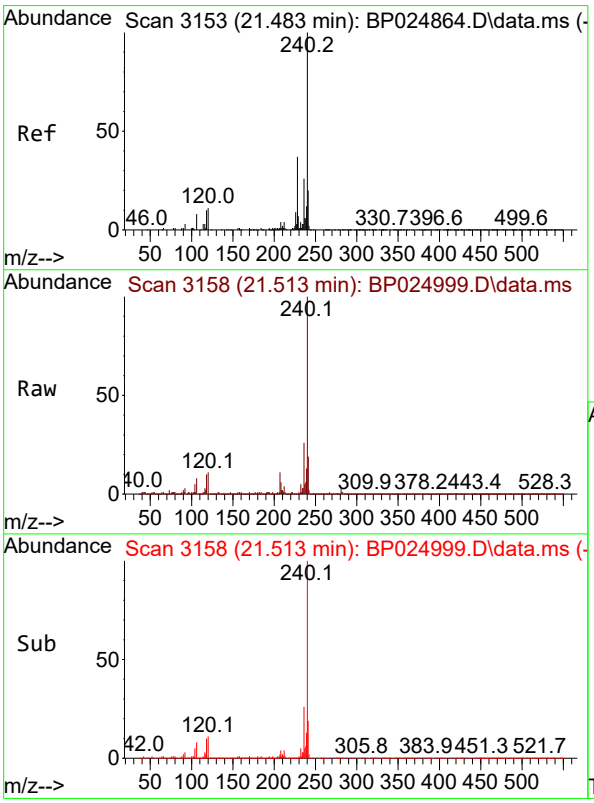
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.072 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Instrument :
BNA_P
ClientSampleId :
MW-12

Tgt Ion:188 Resp: 1282201

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.3	10.9
80	10.7	8.5	12.7

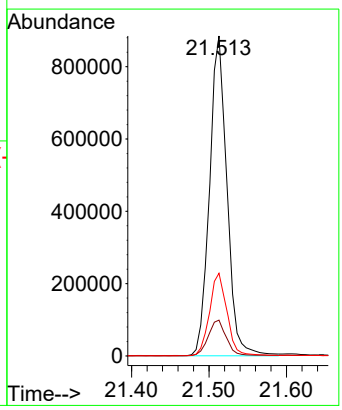


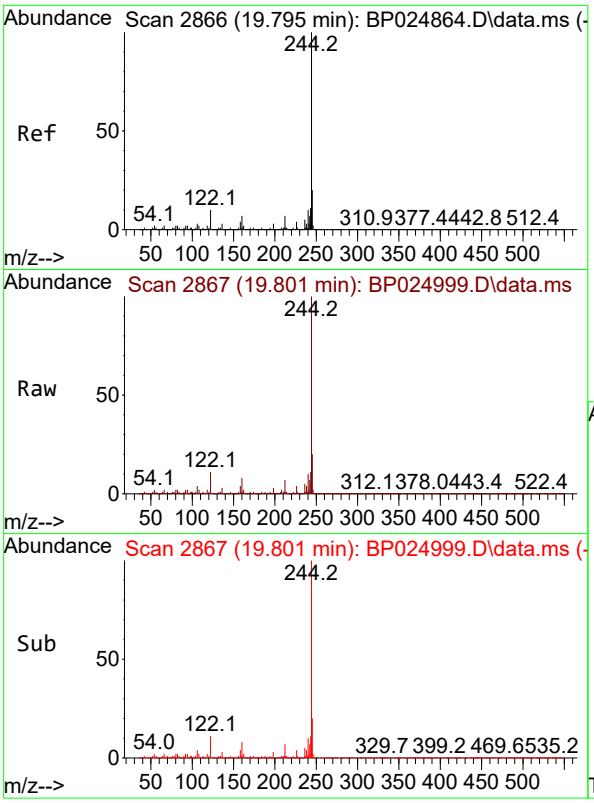


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.513 min Scan# 3158
Delta R.T. 0.029 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Tgt Ion:240 Resp: 1386217

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.9	13.3
236	25.9	20.9	31.3



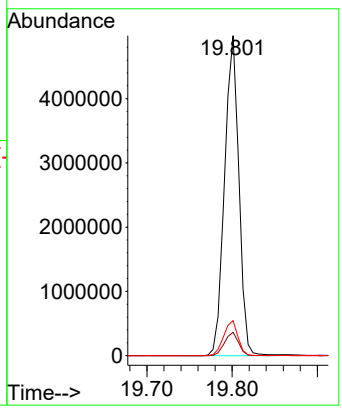


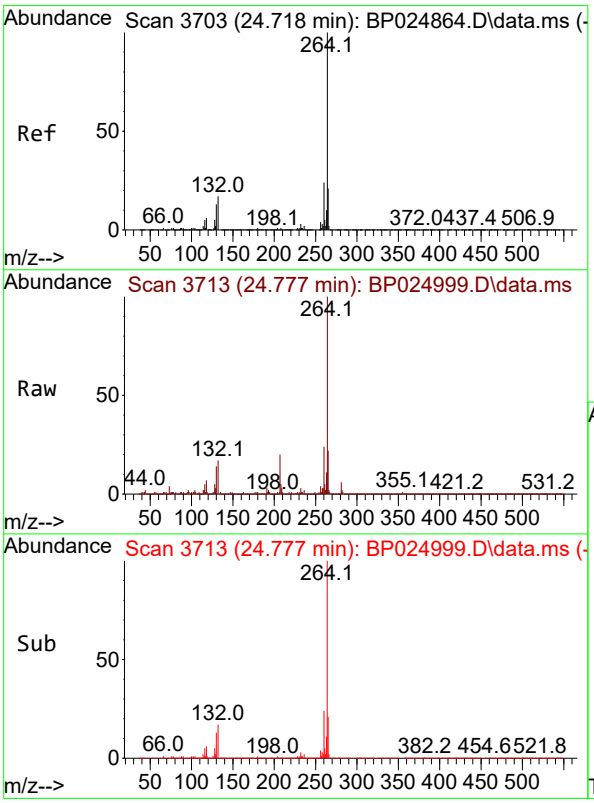
#79
Terphenyl-d14
Concen: 75.207 ng
RT: 19.801 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Instrument :
BNA_P
ClientSampleId :
MW-12

Tgt Ion:244 Resp: 5816931

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.6	8.4
122	11.0	7.7	11.5

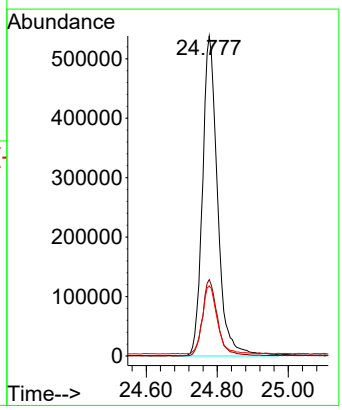




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.777 min Scan# 3713
Delta R.T. 0.059 min
Lab File: BP024999.D
Acq: 18 Jun 2025 18:12

Tgt Ion:264 Resp: 1591861

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.0	28.4
265	21.9	17.4	26.0



CALIBRATION SUMMARY

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG No.: Q2333

Instrument ID: BNA_F Calibration Date(s): 06/10/2025 06/10/2025

Calibration Time(s): 16:54 20:19

LAB FILE ID: RRF2.5 = BF142712.D RRF005 = BF142713.D RRF010 = BF142714.D
RRF020 = BF142715.D RRF040 = BF142716.D RRF050 = BF142717.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.238	1.170	1.199	1.161	1.220	1.174	4.5
Phenol-d6		1.434	1.339	1.400	1.376	1.446	1.382	3.7
Nitrobenzene-d5		0.381	0.363	0.369	0.358	0.378	0.365	3.2
2-Fluorobiphenyl		1.690	1.610	1.569	1.444	1.535	1.505	9.0
Acenaphthylene		2.053	1.986	2.003	1.881	1.991	1.929	5.6
Acenaphthene		1.266	1.222	1.224	1.170	1.237	1.196	4.8
Fluorene		1.547	1.429	1.397	1.279	1.357	1.345	9.5
2,4,6-Tribromophenol		0.236	0.223	0.224	0.213	0.226	0.219	5.3
Phenanthrene		1.165	1.100	1.094	1.036	1.091	1.071	5.6
Anthracene		1.203	1.145	1.140	1.064	1.132	1.108	6.0
Fluoranthene		1.184	1.083	1.081	0.965	0.988	1.019	10.1
Pyrene		2.014	1.918	1.928	1.883	1.878	1.859	6.7
Terphenyl-d14		1.609	1.562	1.556	1.462	1.430	1.456	9.1
Benzo(a)anthracene		1.367	1.273	1.284	1.350	1.400	1.325	3.9
Chrysene		1.298	1.208	1.245	1.172	1.250	1.224	3.7
Benzo(b)fluoranthene		1.256	1.094	1.112	1.162	1.230	1.178	5.7
Benzo(k)fluoranthene		1.236	1.178	1.245	1.076	1.189	1.143	7.9
Benzo(a)pyrene		1.164	1.085	1.122	1.104	1.184	1.120	3.7
Indeno(1,2,3-cd)pyrene		1.438	1.406	1.458	1.498	1.602	1.482	4.3
Dibenzo(a,h)anthracene		1.134	1.176	1.214	1.236	1.318	1.210	4.9
Benzo(g,h,i)perylene		1.201	1.164	1.178	1.216	1.295	1.203	3.8

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-BF061125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 11 05:56:09 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142712.D 5.0 =BF142713.D 10 =BF142714.D 20 =BF142715.D 40 =BF142716.D 50 =BF142717.D 60 =BF142718.D 80 =BF1427
19.D

		Compound	2.5	5.0	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.499	0.448	0.472	0.455	0.481	0.460	0.439	0.465	4.40
3)		Pyridine		1.172	1.129	1.159	1.160	1.222	1.193	1.122	1.165	3.00
4)		n-Nitrosodimet...			0.558	0.590	0.591	0.633	0.617	0.588	0.596	4.36
5)	S	2-Fluorophenol		1.238	1.170	1.199	1.161	1.220	1.156	1.075	1.174	4.55
6)		Aniline		1.866	1.788	1.894	1.848	1.955	1.861	1.736	1.850	3.83
7)	S	Phenol-d6		1.434	1.339	1.400	1.376	1.446	1.377	1.302	1.382	3.67
8)		2-Chlorophenol		1.288	1.254	1.300	1.290	1.347	1.286	1.219	1.283	3.09
9)		Benzaldehyde			0.943	0.950	0.839	0.839	0.708		0.856	11.52
10)	C	Phenol		1.550	1.503	1.577	1.522	1.607	1.547	1.446	1.536	3.42
11)		bis(2-Chloroet...		1.222	1.118	1.149	1.130	1.202	1.131	1.079	1.147	4.29
12)		1,3-Dichlorobe...		1.557	1.483	1.504	1.451	1.513	1.411	1.333	1.465	5.08
13)	C	1,4-Dichlorobe...		1.596	1.483	1.519	1.454	1.528	1.431	1.349	1.480	5.34
14)		1,2-Dichlorobe...		1.554	1.418	1.444	1.401	1.457	1.375	1.282	1.419	5.83
15)		Benzyl Alcohol			0.970	1.049	1.059	1.121	1.061	1.007	1.045	4.95
16)		2,2'-oxybis(1-...		1.957	1.812	1.840	1.806	1.875	1.746	1.609	1.806	6.03
17)		2-Methylphenol		0.978	0.950	0.995	0.992	1.043	0.995	0.933	0.984	3.61
18)		Hexachloroethane		0.562	0.521	0.545	0.524	0.552	0.522	0.488	0.530	4.69
19)	P	n-Nitroso-di-n...	0.885	0.912	0.870	0.886	0.878	0.921	0.863	0.823	0.880	3.43
20)		3+4-Methylphenols			1.261	1.285	1.246	1.299	1.218	1.134	1.240	4.80
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.475	0.451	0.458	0.435	0.454	0.433	0.408	0.445	4.79
23)	S	Nitrobenzene-d5		0.381	0.363	0.369	0.358	0.378	0.363	0.346	0.365	3.24
24)		Nitrobenzene		0.338	0.313	0.326	0.320	0.335	0.327	0.312	0.324	3.10
25)		Isophorone		0.657	0.621	0.628	0.603	0.630	0.606	0.585	0.619	3.77
26)	C	2-Nitrophenol		0.172	0.174	0.183	0.181	0.192	0.187	0.178	0.181	3.92
27)		2,4-Dimethylph...		0.318	0.303	0.311	0.304	0.321	0.308	0.292	0.308	3.14
28)		bis(2-Chloroet...		0.408	0.381	0.392	0.377	0.397	0.378	0.356	0.384	4.31
29)	C	2,4-Dichloroph...		0.284	0.281	0.292	0.280	0.300	0.285	0.269	0.284	3.51
30)		1,2,4-Trichlor...		0.337	0.313	0.322	0.306	0.322	0.307	0.294	0.314	4.42
31)		Naphthalene		1.065	0.997	1.021	0.972	1.008	0.958	0.903	0.989	5.20
32)		Benzoic acid			0.137	0.162	0.174	0.192	0.190	0.186	0.174	12.16
33)		4-Chloroaniline		0.429	0.389	0.399	0.399	0.408	0.386	0.370	0.397	4.68
34)	C	Hexachlorobuta...		0.210	0.204	0.206	0.197	0.205	0.196	0.184	0.200	4.41
35)		Caprolactam			0.077	0.079	0.075	0.079	0.077	0.074	0.077	2.82
36)	C	4-Chloro-3-met...		0.317	0.299	0.303	0.289	0.301	0.287	0.273	0.296	4.76
37)		2-Methylnaphth...		0.674	0.649	0.641	0.618	0.636	0.599	0.565	0.626	5.72
38)		1-Methylnaphth...		0.727	0.666	0.669	0.629	0.650	0.619	0.580	0.649	7.16

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.585	0.592	0.589	0.568	0.618	0.570	0.531	0.579	4.64
41)	P	Hexachlorocycl...		0.297	0.348	0.375	0.414	0.400	0.396	0.372	11.64
42)	S	2,4,6-Tribromo...	0.236	0.223	0.224	0.213	0.226	0.210	0.202	0.219	5.28
43)	C	2,4,6-Trichlor...	0.349	0.373	0.383	0.373	0.405	0.380	0.359	0.375	4.79
44)		2,4,5-Trichlor...	0.404	0.404	0.413	0.400	0.431	0.399	0.383	0.405	3.61
45)	S	2-Fluorobiphenyl	1.690	1.610	1.569	1.444	1.535	1.402	1.289	1.505	9.04
46)		1,1'-Biphenyl	1.630	1.617	1.587	1.506	1.622	1.500	1.409	1.553	5.39
47)		2-Chloronaphth...	1.190	1.172	1.178	1.117	1.197	1.108	1.047	1.144	4.82
48)		2-Nitroaniline	0.320	0.321	0.333	0.323	0.345	0.325	0.311	0.325	3.38
49)		Acenaphthylene	2.053	1.986	2.003	1.881	1.991	1.847	1.744	1.929	5.65
50)		Dimethylphthalate	1.444	1.368	1.359	1.291	1.379	1.273	1.234	1.336	5.42
51)		2,6-Dinitrotol...	0.307	0.283	0.295	0.285	0.299	0.283	0.268	0.289	4.49
52)	C	Acenaphthene	1.266	1.222	1.224	1.170	1.237	1.155	1.099	1.196	4.80
53)		3-Nitroaniline	0.334	0.313	0.316	0.307	0.322	0.304	0.295	0.313	4.08
54)	P	2,4-Dinitrophenol		0.123	0.154	0.157	0.176	0.170	0.169	0.158	12.18
55)		Dibenzofuran	1.855	1.777	1.783	1.643	1.741	1.607	1.517	1.703	6.93
56)	P	4-Nitrophenol		0.203	0.219	0.210	0.222	0.212	0.208	0.212	3.42
57)		2,4-Dinitrotol...	0.396	0.383	0.399	0.377	0.396	0.372	0.348	0.382	4.73
58)		Fluorene	1.547	1.429	1.397	1.279	1.357	1.240	1.167	1.345	9.49
59)		2,3,4,6-Tetrac...	0.364	0.339	0.357	0.327	0.354	0.332	0.311	0.340	5.58
60)		Diethylphthalate	1.508	1.392	1.372	1.256	1.332	1.246	1.164	1.324	8.55
61)		4-Chlorophenyl...	0.748	0.692	0.680	0.633	0.663	0.610	0.571	0.657	8.84
62)		4-Nitroaniline	0.297	0.281	0.294	0.270	0.283	0.275	0.261	0.280	4.58
63)		Azobenzene	1.290	1.186	1.178	1.115	1.187	1.094	1.045	1.157	6.89
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.104	0.123	0.125	0.137	0.133	0.129	0.125	9.17
66)	c	n-Nitrosodiphe...	0.710	0.679	0.693	0.672	0.722	0.685	0.651	0.687	3.45
67)		4-Bromophenyl-...	0.240	0.229	0.238	0.231	0.252	0.236	0.227	0.236	3.52
68)		Hexachlorobenzene	0.270	0.261	0.263	0.255	0.275	0.260	0.251	0.262	3.17
69)		Atrazine	0.185	0.174	0.188	0.179	0.191	0.188	0.178	0.183	3.33
70)	C	Pentachlorophenol		0.118	0.133	0.139	0.148	0.144	0.142	0.137	7.80
71)		Phenanthrene	1.165	1.100	1.094	1.036	1.091	1.035	0.978	1.071	5.61
72)		Anthracene	1.203	1.145	1.140	1.064	1.132	1.072	1.004	1.108	5.96
73)		Carbazole	1.003	0.960	0.968	0.898	0.931	0.903	0.832	0.928	6.07
74)		Di-n-butylphth...	1.105	1.048	1.072	1.005	1.053	1.017	0.953	1.036	4.76
75)	C	Fluoranthene	1.184	1.083	1.081	0.965	0.988	0.953	0.878	1.019	10.08
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.711	0.772	0.799	0.754	0.684	0.553	0.712	12.40
78)		Pyrene	2.014	1.918	1.928	1.883	1.878	1.753	1.635	1.859	6.75
79)	S	Terphenyl-d14	1.609	1.562	1.556	1.462	1.430	1.327	1.247	1.456	9.11
80)		Butylbenzylpht...	0.435	0.486	0.526	0.581	0.626	0.605	0.588	0.550	12.67
81)		Benzo(a)anthra...	1.367	1.273	1.284	1.350	1.400	1.340	1.263	1.325	3.94
82)		3,3'-Dichlorob...		0.370	0.403	0.442	0.473	0.459	0.418	0.427	8.88
83)		Chrysene	1.298	1.208	1.245	1.172	1.250	1.222	1.170	1.224	3.72
84)		Bis(2-ethylhex...	0.616	0.709	0.756	0.895	0.977	0.926	0.896	0.825	16.02
85)	c	Di-n-octyl pht...		1.284	1.385	1.677	1.816	1.680	1.654	1.582	12.84

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.438	1.406	1.458	1.498	1.602	1.514	1.460	1.482	4.31
88)		Benzo(b)fluora...	1.256	1.094	1.112	1.162	1.230	1.251	1.139	1.178	5.71
89)		Benzo(k)fluora...	1.236	1.178	1.245	1.076	1.189	1.035	1.039	1.143	7.94
90)	C	Benzo(a)pyrene	1.164	1.085	1.122	1.104	1.184	1.111	1.068	1.120	3.70
91)		Dibenzo(a,h)an...	1.134	1.176	1.214	1.236	1.318	1.222	1.172	1.210	4.87
92)		Benzo(g,h,i)pe...	1.201	1.164	1.178	1.216	1.295	1.207	1.163	1.203	3.77

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142712.D
Acq On : 10 Jun 2025 16:54
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jun 11 04:42:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	79232	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	295464	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	183301	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	345616	20.000	ng	0.00
76) Chrysene-d12	14.068	240	223924	20.000	ng	0.00
86) Perylene-d12	15.562	264	151462	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...	7.292	70	8766	2.710	ng	96

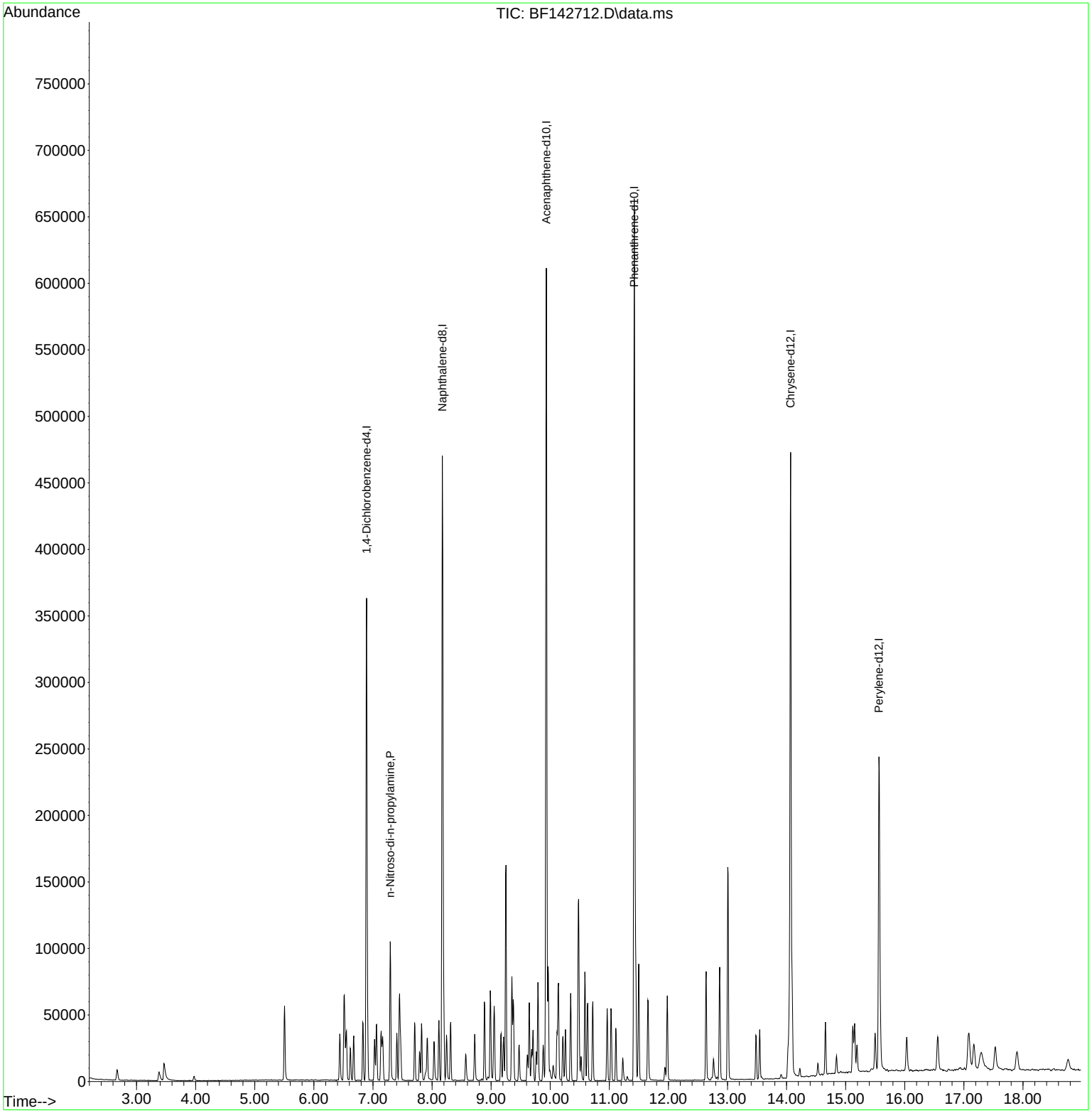
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142712.D
Acq On : 10 Jun 2025 16:54
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jun 11 04:42:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142713.D
Acq On : 10 Jun 2025 17:24
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jun 11 04:43:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	73153	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	282660	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	171831	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	317109	20.000	ng	0.00
76) Chrysene-d12	14.069	240	192600	20.000	ng	0.00
86) Perylene-d12	15.563	264	136780	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	45267	10.485	ng	0.00
7) Phenol-d6	6.510	99	52444	10.388	ng	-0.01
23) Nitrobenzene-d5	7.451	82	53819	10.444	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	20258	10.526	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	145166	11.472	ng	0.00
79) Terphenyl-d14	13.004	244	154958	12.222	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	9117	5.514	ng	98
3) Pyridine	3.457	79	21429	5.033	ng	97
6) Aniline	6.551	93	34126	5.033	ng	98
8) 2-Chlorophenol	6.675	128	23551	4.989	ng	98
10) Phenol	6.522	94	28350	5.028	ng	96
11) bis(2-Chloroethyl)ether	6.622	93	22343	5.410	ng	96
12) 1,3-Dichlorobenzene	6.834	146	28472	5.388	ng	98
13) 1,4-Dichlorobenzene	6.910	146	29191	5.422	ng	99
14) 1,2-Dichlorobenzene	7.063	146	28413	5.535	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.163	45	35792	5.355	ng	100
17) 2-Methylphenol	7.140	107	17889	4.966	ng	98
18) Hexachloroethane	7.404	117	10275	5.503	ng	98
19) n-Nitroso-di-n-propyla...	7.293	70	16677	5.585	ng	96
22) Acetophenone	7.293	105	33539	5.425	ng	97
24) Nitrobenzene	7.469	77	23879	5.151	ng	99
25) Isophorone	7.704	82	46450	5.508	ng	100
26) 2-Nitrophenol	7.792	139	12154	4.757	ng	99
27) 2,4-Dimethylphenol	7.822	122	22460	5.154	ng	98
28) bis(2-Chloroethoxy)met...	7.922	93	28801	5.495	ng	99
29) 2,4-Dichlorophenol	8.034	162	20068	5.067	ng	98
30) 1,2,4-Trichlorobenzene	8.116	180	23782	5.446	ng	99
31) Naphthalene	8.198	128	75231	5.400	ng	99
33) 4-Chloroaniline	8.245	127	30308	5.302	ng	99
34) Hexachlorobutadiene	8.316	225	14843	5.491	ng	97
36) 4-Chloro-3-methylphenol	8.722	107	22410	5.387	ng	99
37) 2-Methylnaphthalene	8.887	142	47648	5.368	ng	100
38) 1-Methylnaphthalene	8.987	142	51391	5.616	ng	100
40) 1,2,4,5-Tetrachloroben...	9.057	216	25124	5.027	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	14992	4.592	ng	94
44) 2,4,5-Trichlorophenol	9.204	196	17365	4.967	ng	97
46) 1,1'-Biphenyl	9.351	154	70027	5.243	ng	98
47) 2-Chloronaphthalene	9.375	162	51126	5.116	ng	98
48) 2-Nitroaniline	9.469	65	13726	4.657	ng	98
49) Acenaphthylene	9.792	152	88199	5.321	ng	100
50) Dimethylphthalate	9.645	163	62037	5.367	ng	99
51) 2,6-Dinitrotoluene	9.710	165	13208	5.264	ng	96

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142713.D
Acq On : 10 Jun 2025 17:24
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jun 11 04:43:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

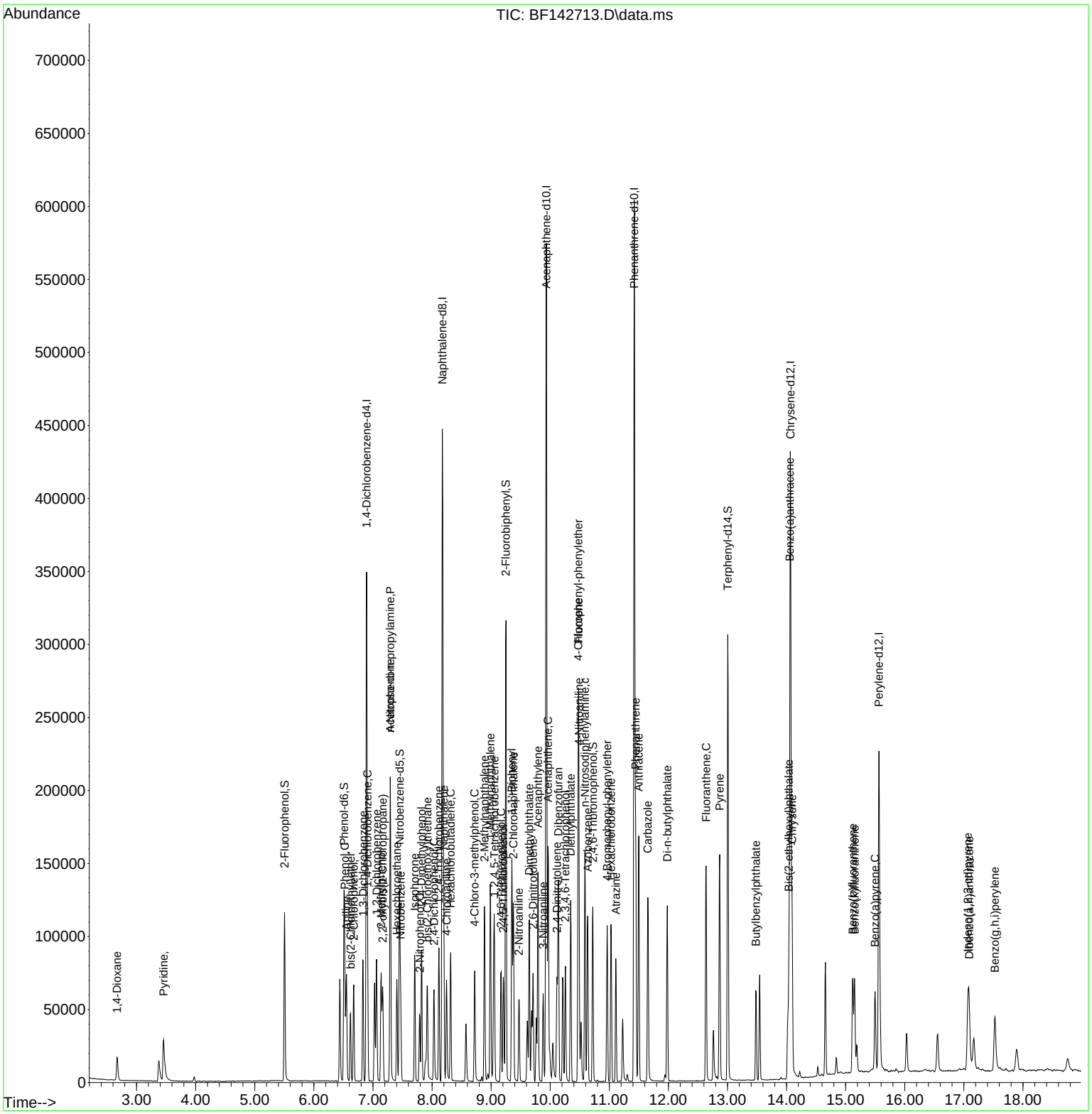
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Acenaphthene	9.963	154	54383	5.359	ng		99
53) 3-Nitroaniline	9.881	138	14348	5.141	ng		99
55) Dibenzofuran	10.139	168	79673	5.471	ng		99
57) 2,4-Dinitrotoluene	10.116	165	17009	5.094	ng		96
58) Fluorene	10.481	166	66464	5.719	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	15641	5.392	ng	#	96
60) Diethylphthalate	10.345	149	64759	5.759	ng		100
61) 4-Chlorophenyl-phenyle...	10.475	204	32152	5.820	ng		97
62) 4-Nitroaniline	10.486	138	12746	4.873	ng		98
63) Azobenzene	10.633	77	55411	5.497	ng		99
66) n-Nitrosodiphenylamine	10.586	169	56325	5.506	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	19033	5.426	ng		98
68) Hexachlorobenzene	11.028	284	21366	5.334	ng		99
69) Atrazine	11.110	200	14687	4.829	ng		98
71) Phenanthrene	11.445	178	92359	5.445	ng		99
72) Anthracene	11.498	178	95380	5.431	ng		98
73) Carbazole	11.651	167	79530	5.098	ng		99
74) Di-n-butylphthalate	11.980	149	87576	5.304	ng		99
75) Fluoranthene	12.639	202	93843	5.689	ng		99
78) Pyrene	12.869	202	96970	5.961	ng		98
80) Butylbenzylphthalate	13.480	149	20945	4.216	ng		98
81) Benzo(a)anthracene	14.057	228	65823	5.230	ng		99
83) Chrysene	14.092	228	62493	5.295	ng		99
84) Bis(2-ethylhexyl)phtha...	14.039	149	29677	5.009	ng		99
87) Indeno(1,2,3-cd)pyrene	17.068	276	49157	5.039	ng		99
88) Benzo(b)fluoranthene	15.121	252	42934	5.237	ng		99
89) Benzo(k)fluoranthene	15.151	252	42264	5.573	ng		98
90) Benzo(a)pyrene	15.498	252	39797	5.197	ng		99
91) Dibenzo(a,h)anthracene	17.092	278	38778	4.912	ng		98
92) Benzo(g,h,i)perylene	17.527	276	41059	5.047	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142713.D
Acq On : 10 Jun 2025 17:24
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jun 11 04:43:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142714.D
Acq On : 10 Jun 2025 17:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 11 04:44:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.893	152	78202	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	297644	20.000	ng		0.00
39) Acenaphthene-d10	9.933	164	171293	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	304369	20.000	ng		0.00
76) Chrysene-d12	14.069	240	175894	20.000	ng		0.00
86) Perylene-d12	15.563	264	145296	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	91494	19.825	ng		0.00
7) Phenol-d6	6.510	99	104679	19.395	ng		-0.01
23) Nitrobenzene-d5	7.451	82	108036	19.910	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	38257	19.941	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	275752	21.861	ng		0.00
79) Terphenyl-d14	13.004	244	274700	23.723	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.669	88	17535	9.921	ng		98
3) Pyridine	3.446	79	44155	9.701	ng		98
4) n-Nitrosodimethylamine	3.375	42	21829	9.760	ng	#	100
6) Aniline	6.551	93	69923	9.647	ng		99
8) 2-Chlorophenol	6.675	128	49015	9.712	ng		98
9) Benzaldehyde	6.440	77	36871	12.061	ng		98
10) Phenol	6.528	94	58767	9.750	ng		93
11) bis(2-Chloroethyl)ether	6.622	93	43715	9.901	ng		98
12) 1,3-Dichlorobenzene	6.834	146	57969	10.261	ng		98
13) 1,4-Dichlorobenzene	6.910	146	58003	10.078	ng		98
14) 1,2-Dichlorobenzene	7.063	146	55430	10.101	ng		98
15) Benzyl Alcohol	7.028	79	37926	9.523	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	70858	9.916	ng		99
17) 2-Methylphenol	7.140	107	37156	9.649	ng		98
18) Hexachloroethane	7.404	117	20359	10.200	ng		98
19) n-Nitroso-di-n-propyla...	7.292	70	34025	10.659	ng		98
20) 3+4-Methylphenols	7.292	107	49292	10.358	ng	#	89
22) Acetophenone	7.298	105	67100	10.307	ng		99
24) Nitrobenzene	7.469	77	46653	9.556	ng		99
25) Isophorone	7.710	82	92430	10.409	ng		99
26) 2-Nitrophenol	7.792	139	25953	9.646	ng		97
27) 2,4-Dimethylphenol	7.822	122	45074	9.823	ng		99
28) bis(2-Chloroethoxy)met...	7.922	93	56675	10.270	ng		99
29) 2,4-Dichlorophenol	8.034	162	41840	10.033	ng		97
30) 1,2,4-Trichlorobenzene	8.116	180	46583	10.130	ng		99
31) Naphthalene	8.198	128	148394	10.116	ng		100
32) Benzoic acid	7.898	122	20380	7.420	ng		91
33) 4-Chloroaniline	8.245	127	57953	9.627	ng		98
34) Hexachlorobutadiene	8.316	225	30416	10.686	ng		98
35) Caprolactam	8.581	113	11406	9.021	ng		97
36) 4-Chloro-3-methylphenol	8.722	107	44561	10.173	ng		96
37) 2-Methylnaphthalene	8.886	142	96652	10.341	ng		100
38) 1-Methylnaphthalene	8.986	142	99084	10.283	ng		100
40) 1,2,4,5-Tetrachloroben...	9.057	216	50666	10.170	ng		99
41) Hexachlorocyclopentadiene	9.039	237	25422	8.555	ng		98
43) 2,4,6-Trichlorophenol	9.169	196	31960	9.820	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142714.D
Acq On : 10 Jun 2025 17:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

Quant Time: Jun 11 04:44:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	34641	9.940	ng	97
46) 1,1'-Biphenyl	9.351	154	138529	10.404	ng	99
47) 2-Chloronaphthalene	9.381	162	100376	10.076	ng	98
48) 2-Nitroaniline	9.469	65	27476	9.351	ng	97
49) Acenaphthylene	9.792	152	170087	10.293	ng	100
50) Dimethylphthalate	9.645	163	117189	10.171	ng	100
51) 2,6-Dinitrotoluene	9.710	165	24267	9.703	ng	92
52) Acenaphthene	9.969	154	104654	10.345	ng	100
53) 3-Nitroaniline	9.881	138	26814	9.637	ng	98
54) 2,4-Dinitrophenol	9.992	184	10498	7.649	ng	92
55) Dibenzofuran	10.139	168	152164	10.482	ng	98
56) 4-Nitrophenol	10.039	139	17392	9.141	ng	98
57) 2,4-Dinitrotoluene	10.116	165	32824	9.861	ng	99
58) Fluorene	10.480	166	122374	10.564	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	29038m	10.042	ng	
60) Diethylphthalate	10.345	149	119243	10.637	ng	99
61) 4-Chlorophenyl-phenyle...	10.475	204	59238	10.756	ng	96
62) 4-Nitroaniline	10.492	138	24067	9.231	ng	98
63) Azobenzene	10.633	77	101592	10.110	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	15886	8.392	ng	90
66) n-Nitrosodiphenylamine	10.586	169	103342	10.526	ng	99
67) 4-Bromophenyl-phenylether	10.963	248	34896	10.364	ng	98
68) Hexachlorobenzene	11.033	284	39719	10.331	ng	97
69) Atrazine	11.110	200	26536	9.090	ng	98
70) Pentachlorophenol	11.228	266	17981	8.662	ng	99
71) Phenanthrene	11.445	178	167382	10.281	ng	99
72) Anthracene	11.498	178	174314	10.340	ng	99
73) Carbazole	11.651	167	146072	9.755	ng	99
74) Di-n-butylphthalate	11.980	149	159448	10.061	ng	100
75) Fluoranthene	12.639	202	164874	10.413	ng	99
77) Benzidine	12.763	184	62561	10.131	ng	99
78) Pyrene	12.869	202	168642	11.351	ng	99
80) Butylbenzylphthalate	13.480	149	42755	9.423	ng	98
81) Benzo(a)anthracene	14.057	228	111987	9.743	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	32572	8.868	ng	99
83) Chrysene	14.092	228	106218	9.855	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	62338	11.522	ng	100
85) Di-n-octyl phthalate	14.657	149	112882	10.593	ng	100
87) Indeno(1,2,3-cd)pyrene	17.074	276	102110	9.854	ng	100
88) Benzo(b)fluoranthene	15.121	252	79463	9.125	ng	100
89) Benzo(k)fluoranthene	15.151	252	85570	10.623	ng	100
90) Benzo(a)pyrene	15.498	252	78787	9.685	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	85402	10.184	ng	99
92) Benzo(g,h,i)perylene	17.527	276	84574	9.787	ng	97

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

ICAL Form

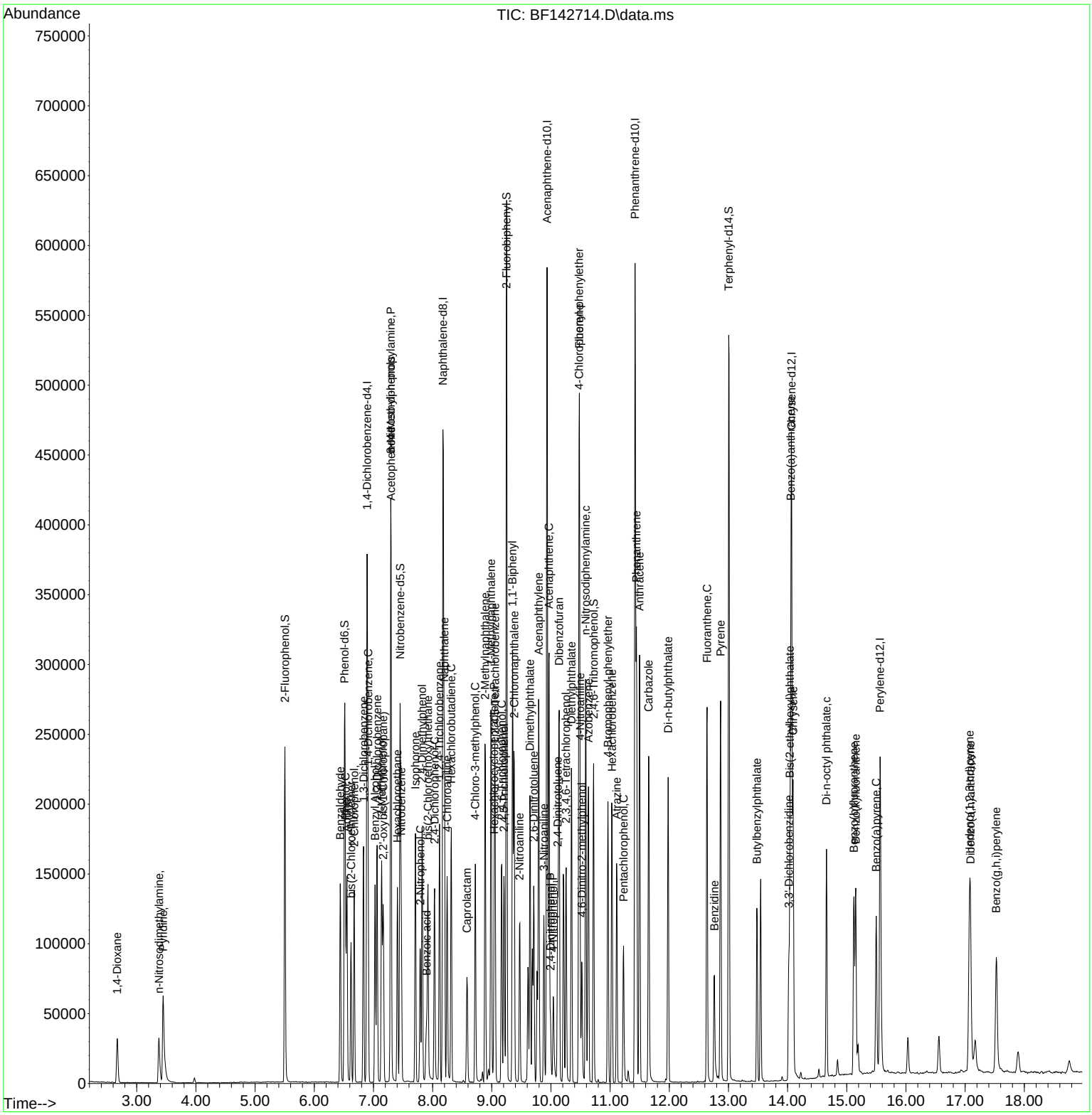
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142714.D
Acq On : 10 Jun 2025 17:53
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 11 04:44:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142715.D
Acq On : 10 Jun 2025 18:22
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jun 11 04:44:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	81140	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	314255	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	177830	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	309039	20.000	ng	0.00
76) Chrysene-d12	14.068	240	171505	20.000	ng	0.00
86) Perylene-d12	15.562	264	149863	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	194642	40.648	ng	0.00
7) Phenol-d6	6.516	99	227264	40.584	ng	0.00
23) Nitrobenzene-d5	7.457	82	232019	40.499	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	79780	40.055	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	557975	42.608	ng	0.00
79) Terphenyl-d14	13.010	244	533769	47.276	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	38265	20.866	ng	99
3) Pyridine	3.440	79	94010	19.906	ng	99
4) n-Nitrosodimethylamine	3.381	42	47876	20.630	ng	100
6) Aniline	6.551	93	153658	20.432	ng	99
8) 2-Chlorophenol	6.675	128	105458	20.140	ng	98
9) Benzaldehyde	6.440	77	77101	24.308	ng	99
10) Phenol	6.528	94	127959	20.461	ng	95
11) bis(2-Chloroethyl)ether	6.622	93	93244	20.354	ng	98
12) 1,3-Dichlorobenzene	6.834	146	122041	20.821	ng	100
13) 1,4-Dichlorobenzene	6.910	146	123218	20.634	ng	99
14) 1,2-Dichlorobenzene	7.063	146	117164	20.577	ng	99
15) Benzyl Alcohol	7.028	79	85092	20.593	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	149275	20.134	ng	99
17) 2-Methylphenol	7.140	107	80771	20.215	ng	98
18) Hexachloroethane	7.404	117	44183	21.335	ng	98
19) n-Nitroso-di-n-propyla...	7.298	70	71901	21.709	ng	96
20) 3+4-Methylphenols	7.292	107	104278	21.119	ng	99
22) Acetophenone	7.298	105	143791	20.920	ng	99
24) Nitrobenzene	7.475	77	102335	19.854	ng	100
25) Isophorone	7.710	82	197471	21.062	ng	99
26) 2-Nitrophenol	7.792	139	57374	20.198	ng	98
27) 2,4-Dimethylphenol	7.828	122	97721	20.170	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	123223	21.148	ng	99
29) 2,4-Dichlorophenol	8.034	162	91906	20.874	ng	98
30) 1,2,4-Trichlorobenzene	8.116	180	101174	20.839	ng	100
31) Naphthalene	8.198	128	320958	20.724	ng	100
32) Benzoic acid	7.916	122	51045	17.603	ng	98
33) 4-Chloroaniline	8.245	127	125346	19.722	ng	98
34) Hexachlorobutadiene	8.316	225	64827	21.572	ng	100
35) Caprolactam	8.598	113	24851	18.615	ng	99
36) 4-Chloro-3-methylphenol	8.722	107	95329	20.614	ng	97
37) 2-Methylnaphthalene	8.892	142	201323	20.401	ng	98
38) 1-Methylnaphthalene	8.986	142	210345	20.677	ng	100
40) 1,2,4,5-Tetrachloroben...	9.057	216	104684	20.240	ng	99
41) Hexachlorocyclopentadiene	9.045	237	61808	20.035	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	68065	20.145	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142715.D
Acq On : 10 Jun 2025 18:22
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jun 11 04:44:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	73361	20.277	ng	99
46) 1,1'-Biphenyl	9.351	154	282209	20.415	ng	100
47) 2-Chloronaphthalene	9.381	162	209413	20.249	ng	98
48) 2-Nitroaniline	9.475	65	59282	19.433	ng	97
49) Acenaphthylene	9.798	152	356197	20.763	ng	99
50) Dimethylphthalate	9.651	163	241601	20.198	ng	100
51) 2,6-Dinitrotoluene	9.716	165	52512	20.224	ng	98
52) Acenaphthene	9.969	154	217647	20.723	ng	100
53) 3-Nitroaniline	9.886	138	56260	19.477	ng	99
54) 2,4-Dinitrophenol	9.992	184	27444	19.262	ng	93
55) Dibenzofuran	10.139	168	317114	21.043	ng	98
56) 4-Nitrophenol	10.039	139	38970	19.729	ng	97
57) 2,4-Dinitrotoluene	10.116	165	71013	20.550	ng	98
58) Fluorene	10.480	166	248361	20.651	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	63447	21.135	ng	99
60) Diethylphthalate	10.351	149	243956	20.962	ng	100
61) 4-Chlorophenyl-phenyle...	10.475	204	121003	21.164	ng	99
62) 4-Nitroaniline	10.492	138	52343	19.338	ng	99
63) Azobenzene	10.633	77	209543	20.087	ng	99
65) 4,6-Dinitro-2-methylph...	10.528	198	37992	19.767	ng	99
66) n-Nitrosodiphenylamine	10.592	169	214287	21.496	ng	99
67) 4-Bromophenyl-phenylether	10.963	248	73566	21.518	ng	97
68) Hexachlorobenzene	11.033	284	81172	20.794	ng	97
69) Atrazine	11.116	200	58054	19.586	ng	99
70) Pentachlorophenol	11.227	266	40960	19.434	ng	98
71) Phenanthrene	11.445	178	338235	20.462	ng	100
72) Anthracene	11.498	178	352159	20.574	ng	99
73) Carbazole	11.651	167	299238	19.681	ng	99
74) Di-n-butylphthalate	11.980	149	331400	20.596	ng	100
75) Fluoranthene	12.639	202	333984	20.774	ng	100
77) Benzidine	12.763	184	132404	21.990	ng	100
78) Pyrene	12.869	202	330717	22.830	ng	99
80) Butylbenzylphthalate	13.480	149	90265	20.402	ng	99
81) Benzo(a)anthracene	14.057	228	220169	19.646	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	69036	19.277	ng	99
83) Chrysene	14.092	228	213547	20.321	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	129627	24.572	ng	100
85) Di-n-octyl phthalate	14.657	149	237492	22.858	ng	100
87) Indeno(1,2,3-cd)pyrene	17.074	276	218550	20.449	ng	99
88) Benzo(b)fluoranthene	15.121	252	166706	18.561	ng	98
89) Benzo(k)fluoranthene	15.151	252	186600	22.459	ng	99
90) Benzo(a)pyrene	15.498	252	168181	20.044	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	181987	21.041	ng	100
92) Benzo(g,h,i)perylene	17.533	276	176608	19.815	ng	98

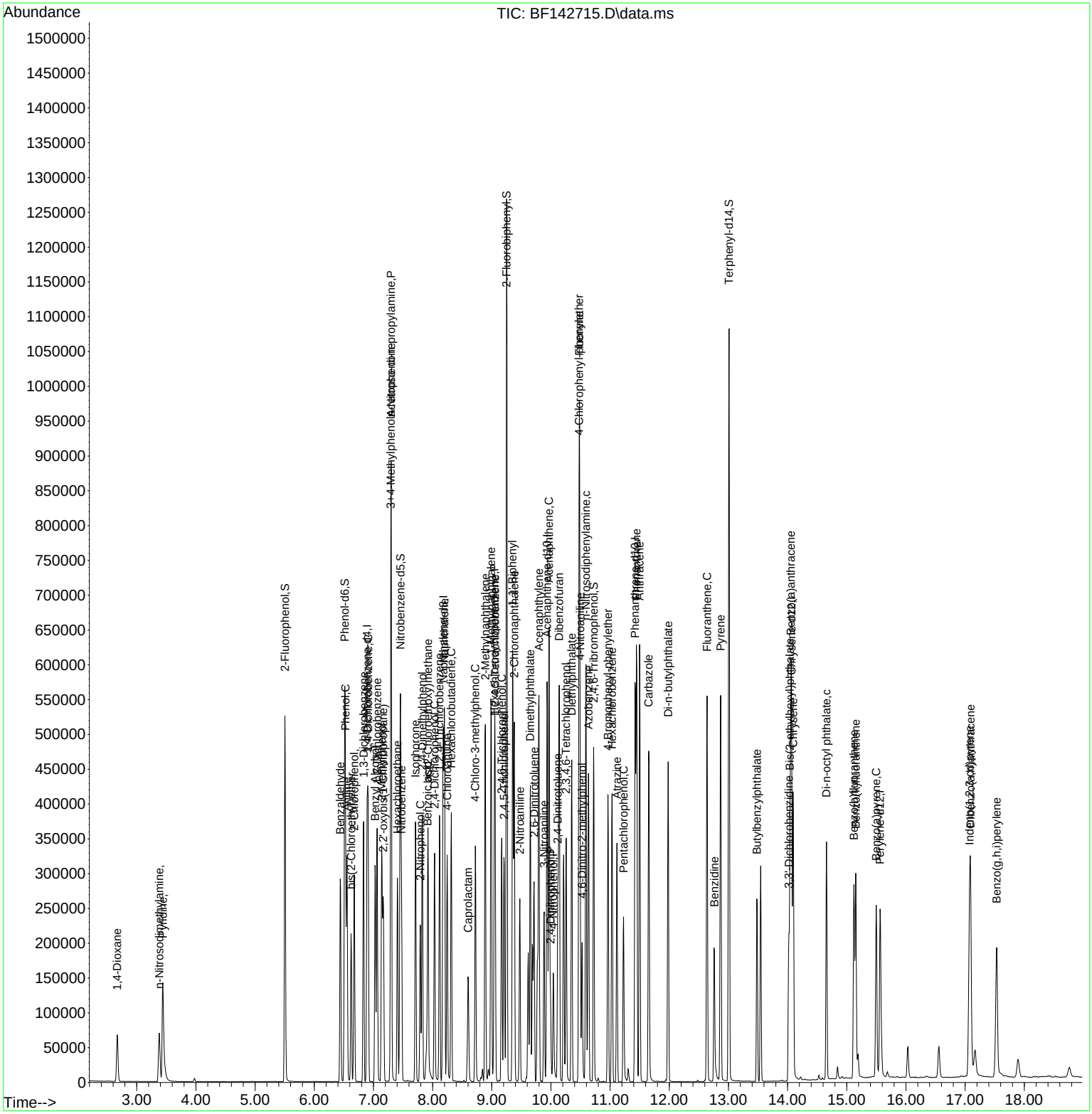
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142715.D
Acq On : 10 Jun 2025 18:22
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jun 11 04:44:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142716.D
Acq On : 10 Jun 2025 18:52
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jun 11 04:45:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	73919	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	293174	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	163323	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	268461	20.000	ng	0.00
76) Chrysene-d12	14.069	240	133388	20.000	ng	0.00
86) Perylene-d12	15.563	264	147260	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	343357	78.709	ng	0.00
7) Phenol-d6	6.522	99	406740	79.729	ng	0.00
23) Nitrobenzene-d5	7.457	82	419582	78.505	ng	0.00
42) 2,4,6-Tribromophenol	10.728	330	139141	76.063	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	943621	78.457	ng	0.00
79) Terphenyl-d14	13.010	244	779955	88.822	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.658	88	67193	40.220	ng	100
3) Pyridine	3.428	79	171443	39.847	ng	100
4) n-Nitrosodimethylamine	3.381	42	87361	41.322	ng	100
6) Aniline	6.557	93	273155	39.869	ng	100
8) 2-Chlorophenol	6.675	128	190691	39.974	ng	100
9) Benzaldehyde	6.446	77	123971	42.903	ng	100
10) Phenol	6.534	94	225072	39.506	ng	100
11) bis(2-Chloroethyl)ether	6.628	93	167078	40.033	ng	100
12) 1,3-Dichlorobenzene	6.834	146	214577	40.184	ng	100
13) 1,4-Dichlorobenzene	6.910	146	214952	39.511	ng	100
14) 1,2-Dichlorobenzene	7.063	146	207185	39.941	ng	100
15) Benzyl Alcohol	7.034	79	156614	41.604	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.169	45	266983	39.528	ng	100
17) 2-Methylphenol	7.145	107	146636	40.285	ng	100
18) Hexachloroethane	7.404	117	77474	41.065	ng	100
19) n-Nitroso-di-n-propyla...	7.310	70	129867	43.041	ng	100
20) 3+4-Methylphenols	7.298	107	184159	40.940	ng	100
22) Acetophenone	7.304	105	255088	39.781	ng	100
24) Nitrobenzene	7.481	77	187501	38.993	ng	100
25) Isophorone	7.716	82	353615	40.429	ng	100
26) 2-Nitrophenol	7.792	139	105955	39.983	ng	100
27) 2,4-Dimethylphenol	7.828	122	178092	39.403	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	221302	40.712	ng	100
29) 2,4-Dichlorophenol	8.034	162	163972	39.919	ng	100
30) 1,2,4-Trichlorobenzene	8.122	180	179611	39.655	ng	100
31) Naphthalene	8.204	128	570012	39.451	ng	100
32) Benzoic acid	7.945	122	102071	37.731	ng	100
33) 4-Chloroaniline	8.251	127	234175	39.494	ng	100
34) Hexachlorobutadiene	8.316	225	115374	41.152	ng	100
35) Caprolactam	8.622	113	43733	35.114	ng	100
36) 4-Chloro-3-methylphenol	8.728	107	169288	39.238	ng	100
37) 2-Methylnaphthalene	8.892	142	362198	39.343	ng	100
38) 1-Methylnaphthalene	8.992	142	368559	38.834	ng	100
40) 1,2,4,5-Tetrachloroben...	9.057	216	185437	39.039	ng	100
41) Hexachlorocyclopentadiene	9.045	237	122551	43.254	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	121856	39.269	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142716.D
Acq On : 10 Jun 2025 18:52
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jun 11 04:45:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	130579	39.297	ng	100
46) 1,1'-Biphenyl	9.357	154	491843	38.741	ng	100
47) 2-Chloronaphthalene	9.381	162	364779	38.406	ng	100
48) 2-Nitroaniline	9.475	65	105665	37.714	ng	100
49) Acenaphthylene	9.798	152	614279	38.988	ng	100
50) Dimethylphthalate	9.657	163	421634	38.379	ng	100
51) 2,6-Dinitrotoluene	9.722	165	92988	38.994	ng	100
52) Acenaphthene	9.969	154	382223	39.625	ng	100
53) 3-Nitroaniline	9.886	138	100380	37.837	ng	100
54) 2,4-Dinitrophenol	9.992	184	51262	39.175	ng	100
55) Dibenzofuran	10.139	168	536754	38.781	ng	100
56) 4-Nitrophenol	10.045	139	68518	37.768	ng	100
57) 2,4-Dinitrotoluene	10.122	165	123171	38.810	ng	100
58) Fluorene	10.486	166	417629	37.810	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.257	232	106838	38.750	ng	100
60) Diethylphthalate	10.351	149	410385	38.395	ng	100
61) 4-Chlorophenyl-phenyle...	10.475	204	206812	39.385	ng	100
62) 4-Nitroaniline	10.498	138	88100	35.439	ng	100
63) Azobenzene	10.633	77	364342	38.029	ng	100
65) 4,6-Dinitro-2-methylph...	10.533	198	67116	40.198	ng	100
66) n-Nitrosodiphenylamine	10.592	169	360849	41.670	ng	100
67) 4-Bromophenyl-phenylether	10.969	248	124035	41.764	ng	100
68) Hexachlorobenzene	11.033	284	136924	40.378	ng	100
69) Atrazine	11.122	200	96297	37.398	ng	100
70) Pentachlorophenol	11.228	266	74723	40.813	ng	100
71) Phenanthrene	11.451	178	556097	38.727	ng	100
72) Anthracene	11.504	178	571308	38.423	ng	100
73) Carbazole	11.657	167	482150	36.505	ng	100
74) Di-n-butylphthalate	11.980	149	539816	38.619	ng	100
75) Fluoranthene	12.639	202	517975	37.088	ng	100
77) Benzidine	12.757	184	213108	45.507	ng	100
78) Pyrene	12.869	202	502445	44.596	ng	100
80) Butylbenzylphthalate	13.480	149	154927	45.024	ng	100
81) Benzo(a)anthracene	14.057	228	360111	41.315	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	117827	42.304	ng	100
83) Chrysene	14.098	228	312740	38.265	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	238704	58.180	ng	100
85) Di-n-octyl phthalate	14.657	149	447326	55.357	ng	100
87) Indeno(1,2,3-cd)pyrene	17.080	276	441110	42.002	ng	100
88) Benzo(b)fluoranthene	15.121	252	342318	38.786	ng	100
89) Benzo(k)fluoranthene	15.151	252	316796	38.803	ng	100
90) Benzo(a)pyrene	15.504	252	325150	39.436	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	364050	42.834	ng	100
92) Benzo(g,h,i)perylene	17.545	276	358281	40.909	ng	100

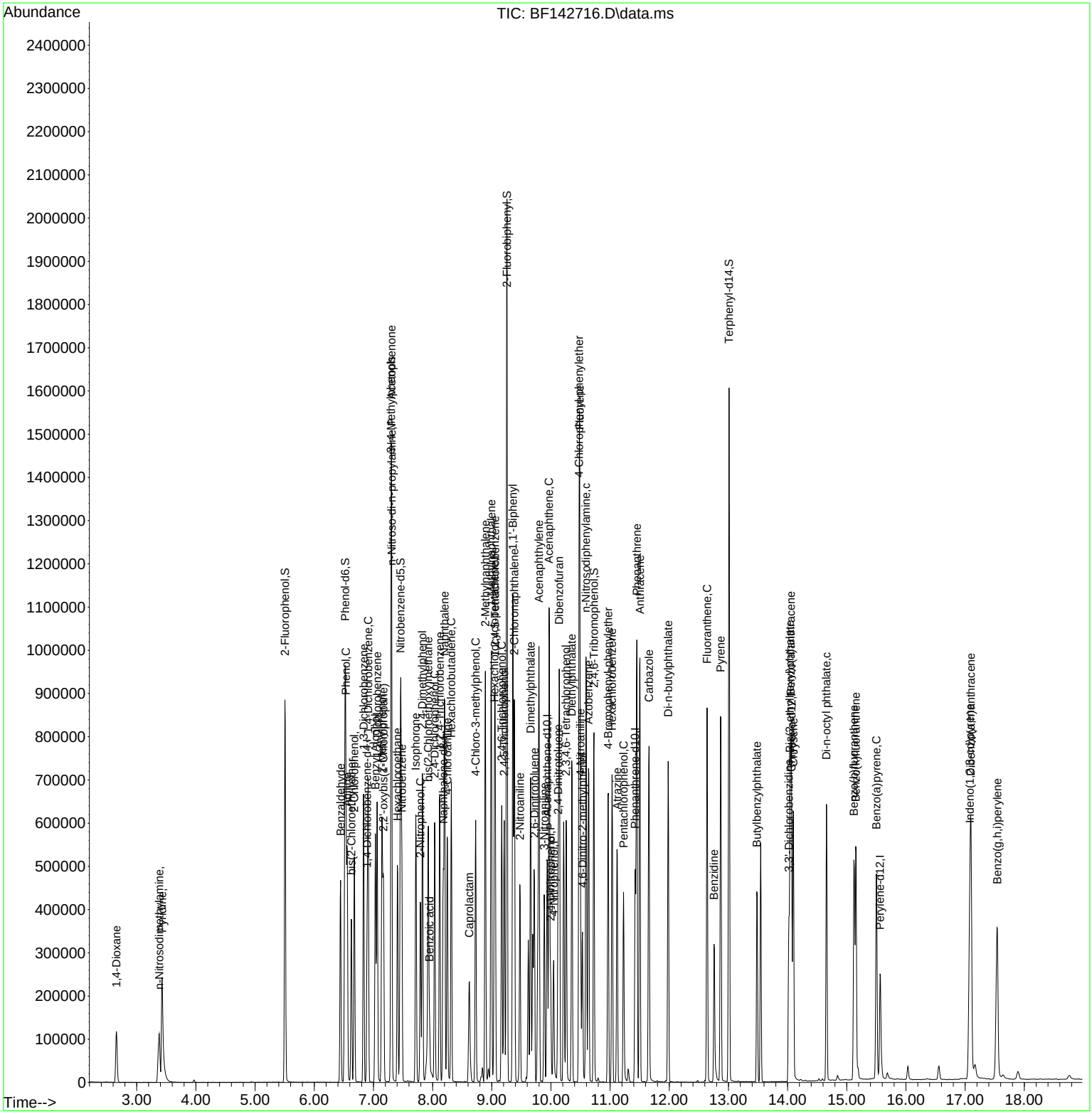
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142716.D
Acq On : 10 Jun 2025 18:52
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jun 11 04:45:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142717.D
Acq On : 10 Jun 2025 19:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jun 11 04:46:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	70241	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	276499	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	147701	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	237963	20.000	ng	0.00
76) Chrysene-d12	14.068	240	123118	20.000	ng	0.00
86) Perylene-d12	15.562	264	138610	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	428569	103.387	ng	0.00
7) Phenol-d6	6.522	99	507980	104.788	ng	0.00
23) Nitrobenzene-d5	7.463	82	522412	103.640	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	167194	101.066	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1133290	104.193	ng	0.00
79) Terphenyl-d14	13.010	244	880299	108.612	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.657	88	84501	53.229	ng	99
3) Pyridine	3.428	79	214641	52.500	ng	100
4) n-Nitrosodimethylamine	3.387	42	111201	55.352	ng	97
6) Aniline	6.557	93	343267	52.727	ng	98
8) 2-Chlorophenol	6.681	128	236612	52.198	ng	98
9) Benzaldehyde	6.445	77	147368	53.670	ng	99
10) Phenol	6.539	94	282259	52.138	ng	96
11) bis(2-Chloroethyl)ether	6.628	93	211081	53.225	ng	100
12) 1,3-Dichlorobenzene	6.834	146	265706	52.365	ng	98
13) 1,4-Dichlorobenzene	6.910	146	268356	51.911	ng	99
14) 1,2-Dichlorobenzene	7.063	146	255850	51.905	ng	99
15) Benzyl Alcohol	7.034	79	196862	55.034	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	329270	51.302	ng	99
17) 2-Methylphenol	7.145	107	183111	52.940	ng	99
18) Hexachloroethane	7.404	117	97018	54.117	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	161675	56.389	ng	98
20) 3+4-Methylphenols	7.304	107	228069	53.356	ng	93
22) Acetophenone	7.304	105	313957	51.914	ng	97
24) Nitrobenzene	7.481	77	231362	51.017	ng	99
25) Isophorone	7.722	82	435816	52.832	ng	99
26) 2-Nitrophenol	7.792	139	132921	53.183	ng	99
27) 2,4-Dimethylphenol	7.834	122	221956	52.069	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	274327	53.510	ng	100
29) 2,4-Dichlorophenol	8.039	162	207570	53.581	ng	98
30) 1,2,4-Trichlorobenzene	8.122	180	222476	52.081	ng	100
31) Naphthalene	8.204	128	696733	51.130	ng	100
32) Benzoic acid	7.957	122	132772	52.040	ng	100
33) 4-Chloroaniline	8.251	127	281926	50.415	ng	98
34) Hexachlorobutadiene	8.316	225	141556	53.536	ng	99
35) Caprolactam	8.628	113	54797	46.651	ng	95
36) 4-Chloro-3-methylphenol	8.728	107	208253	51.181	ng	99
37) 2-Methylnaphthalene	8.892	142	439901	50.665	ng	98
38) 1-Methylnaphthalene	8.992	142	449504	50.219	ng	100
40) 1,2,4,5-Tetrachloroben...	9.057	216	228310	53.148	ng	100
41) Hexachlorocyclopentadiene	9.045	237	152709	59.599	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	149684	53.339	ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142717.D
Acq On : 10 Jun 2025 19:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jun 11 04:46:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	158991	52.908	ng	98
46) 1,1'-Biphenyl	9.357	154	599102	52.181	ng	100
47) 2-Chloronaphthalene	9.386	162	442042	51.463	ng	99
48) 2-Nitroaniline	9.480	65	127381	50.274	ng	97
49) Acenaphthylene	9.798	152	735181	51.597	ng	99
50) Dimethylphthalate	9.657	163	509346	51.267	ng	100
51) 2,6-Dinitrotoluene	9.722	165	110252	51.124	ng	95
52) Acenaphthene	9.975	154	456720	52.356	ng	100
53) 3-Nitroaniline	9.892	138	118897	49.557	ng	99
54) 2,4-Dinitrophenol	9.998	184	64948	54.883	ng	90
55) Dibenzofuran	10.145	168	642875	51.361	ng	99
56) 4-Nitrophenol	10.045	139	82142	50.067	ng	98
57) 2,4-Dinitrotoluene	10.128	165	146163	50.925	ng	99
58) Fluorene	10.486	166	501157	50.172	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	130800	52.459	ng	99
60) Diethylphthalate	10.357	149	491909	50.889	ng	100
61) 4-Chlorophenyl-phenyle...	10.475	204	244758	51.542	ng	100
62) 4-Nitroaniline	10.504	138	104407	46.441	ng	99
63) Azobenzene	10.639	77	438379	50.596	ng	98
65) 4,6-Dinitro-2-methylph...	10.533	198	81791	55.266	ng	97
66) n-Nitrosodiphenylamine	10.598	169	429305	55.929	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	149669	56.854	ng	98
68) Hexachlorobenzene	11.033	284	163747	54.476	ng	99
69) Atrazine	11.122	200	113356	49.666	ng	99
70) Pentachlorophenol	11.227	266	87848	54.131	ng	97
71) Phenanthrene	11.451	178	649264	51.010	ng	100
72) Anthracene	11.504	178	673179	51.077	ng	100
73) Carbazole	11.657	167	554013	47.322	ng	100
74) Di-n-butylphthalate	11.980	149	626243	50.544	ng	100
75) Fluoranthene	12.639	202	588066	47.504	ng	99
77) Benzidine	12.763	184	232203	53.721	ng	99
78) Pyrene	12.868	202	578151	55.596	ng	100
80) Butylbenzylphthalate	13.486	149	192765	60.694	ng	96
81) Benzo(a)anthracene	14.057	228	430896	53.559	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	145475	56.587	ng	98
83) Chrysene	14.098	228	384783	51.006	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	300617	79.382	ng	100
85) Di-n-octyl phthalate	14.657	149	558942	74.939	ng	99
87) Indeno(1,2,3-cd)pyrene	17.086	276	554977	56.142	ng	99
88) Benzo(b)fluoranthene	15.127	252	426102	51.292	ng	99
89) Benzo(k)fluoranthene	15.157	252	412174	53.637	ng	99
90) Benzo(a)pyrene	15.504	252	410292	52.868	ng	100
91) Dibenzo(a,h)anthracene	17.104	278	456552	57.070	ng	99
92) Benzo(g,h,i)perylene	17.545	276	448634	54.423	ng	99

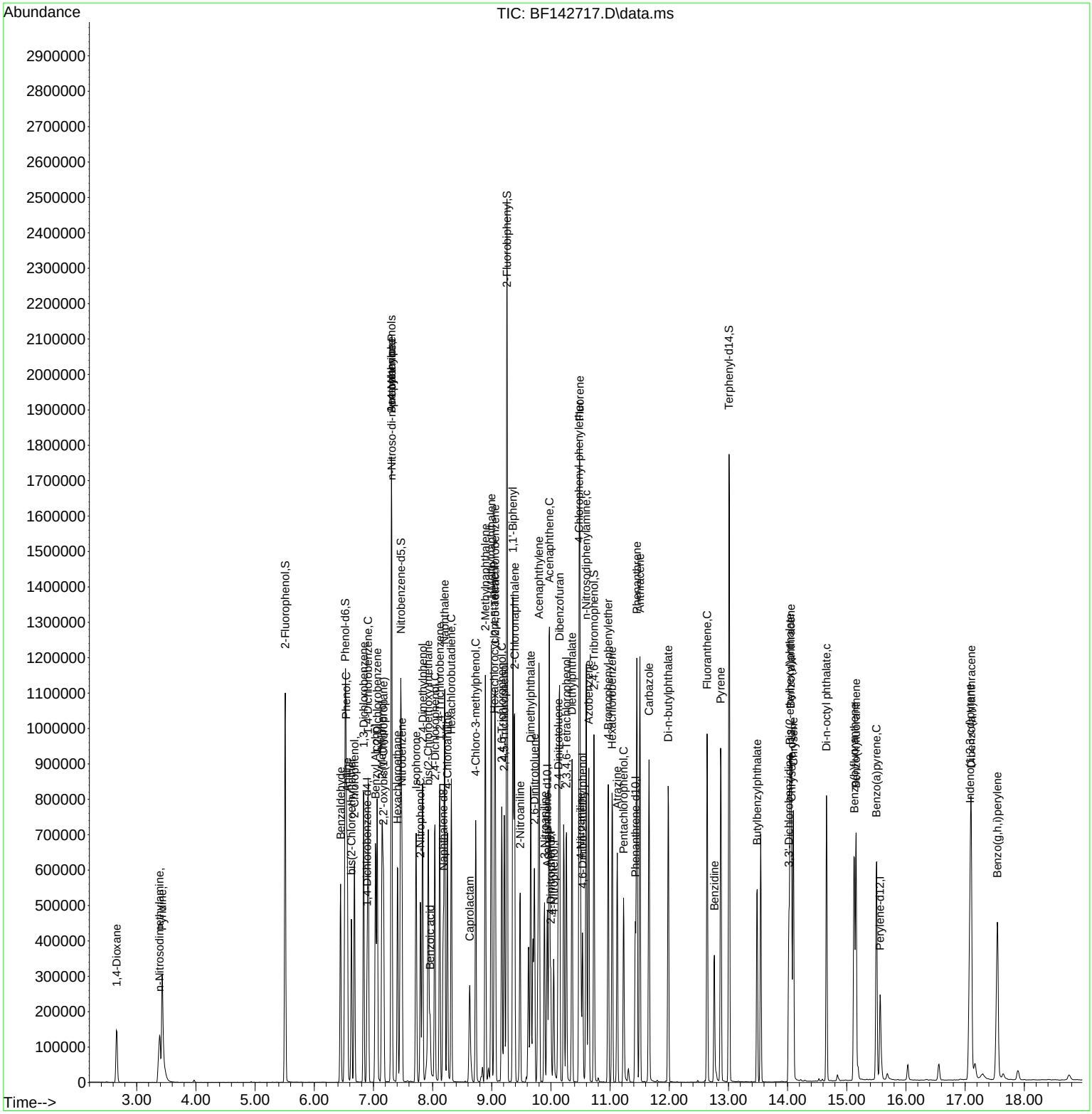
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142717.D
Acq On : 10 Jun 2025 19:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jun 11 04:46:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142718.D
Acq On : 10 Jun 2025 19:50
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jun 11 04:46:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	76540	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	294522	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	160126	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	252673	20.000	ng	0.00
76) Chrysene-d12	14.074	240	135419	20.000	ng	0.00
86) Perylene-d12	15.563	264	154871	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	531105	117.579	ng	0.00
7) Phenol-d6	6.528	99	632168	119.674	ng	0.00
23) Nitrobenzene-d5	7.463	82	641890	119.550	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	201726	112.478	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1346667	114.204	ng	0.00
79) Terphenyl-d14	13.016	244	1078559	120.985	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	105536	61.008	ng	99
3) Pyridine	3.440	79	273987	61.500	ng	99
4) n-Nitrosodimethylamine	3.405	42	141690	64.724	ng	99
6) Aniline	6.557	93	427361	60.241	ng	94
8) 2-Chlorophenol	6.681	128	295212	59.766	ng	98
9) Benzaldehyde	6.446	77	162597	54.343	ng	99
10) Phenol	6.540	94	355251	60.220	ng	94
11) bis(2-Chloroethyl)ether	6.634	93	259733	60.102	ng	98
12) 1,3-Dichlorobenzene	6.834	146	323976	58.594	ng	98
13) 1,4-Dichlorobenzene	6.910	146	328599	58.333	ng	99
14) 1,2-Dichlorobenzene	7.063	146	315832	58.801	ng	99
15) Benzyl Alcohol	7.040	79	243700	62.521	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	400983	57.334	ng	96
17) 2-Methylphenol	7.145	107	228521	60.631	ng	99
18) Hexachloroethane	7.410	117	119800	61.325	ng	97
19) n-Nitroso-di-n-propyla...	7.316	70	198117	63.413	ng	99
20) 3+4-Methylphenols	7.304	107	279582	60.024	ng	99
22) Acetophenone	7.310	105	382998	59.455	ng	99
24) Nitrobenzene	7.487	77	289244	59.877	ng	100
25) Isophorone	7.722	82	535385	60.930	ng	99
26) 2-Nitrophenol	7.798	139	165338	62.106	ng	98
27) 2,4-Dimethylphenol	7.834	122	272466	60.007	ng	98
28) bis(2-Chloroethoxy)met...	7.928	93	334048	61.172	ng	99
29) 2,4-Dichlorophenol	8.040	162	251539	60.958	ng	98
30) 1,2,4-Trichlorobenzene	8.122	180	270820	59.519	ng	100
31) Naphthalene	8.204	128	846634	58.328	ng	99
32) Benzoic acid	7.969	122	167672	61.697	ng	99
33) 4-Chloroaniline	8.251	127	340957	57.240	ng	98
34) Hexachlorobutadiene	8.316	225	172892	61.386	ng	99
35) Caprolactam	8.634	113	67973	54.327	ng	98
36) 4-Chloro-3-methylphenol	8.734	107	253604	58.512	ng	99
37) 2-Methylnaphthalene	8.892	142	529042	57.203	ng	99
38) 1-Methylnaphthalene	8.992	142	547063	57.378	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	273677	58.765	ng	99
41) Hexachlorocyclopentadiene	9.045	237	192176	69.182	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	182628	60.028	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142718.D
Acq On : 10 Jun 2025 19:50
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jun 11 04:46:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

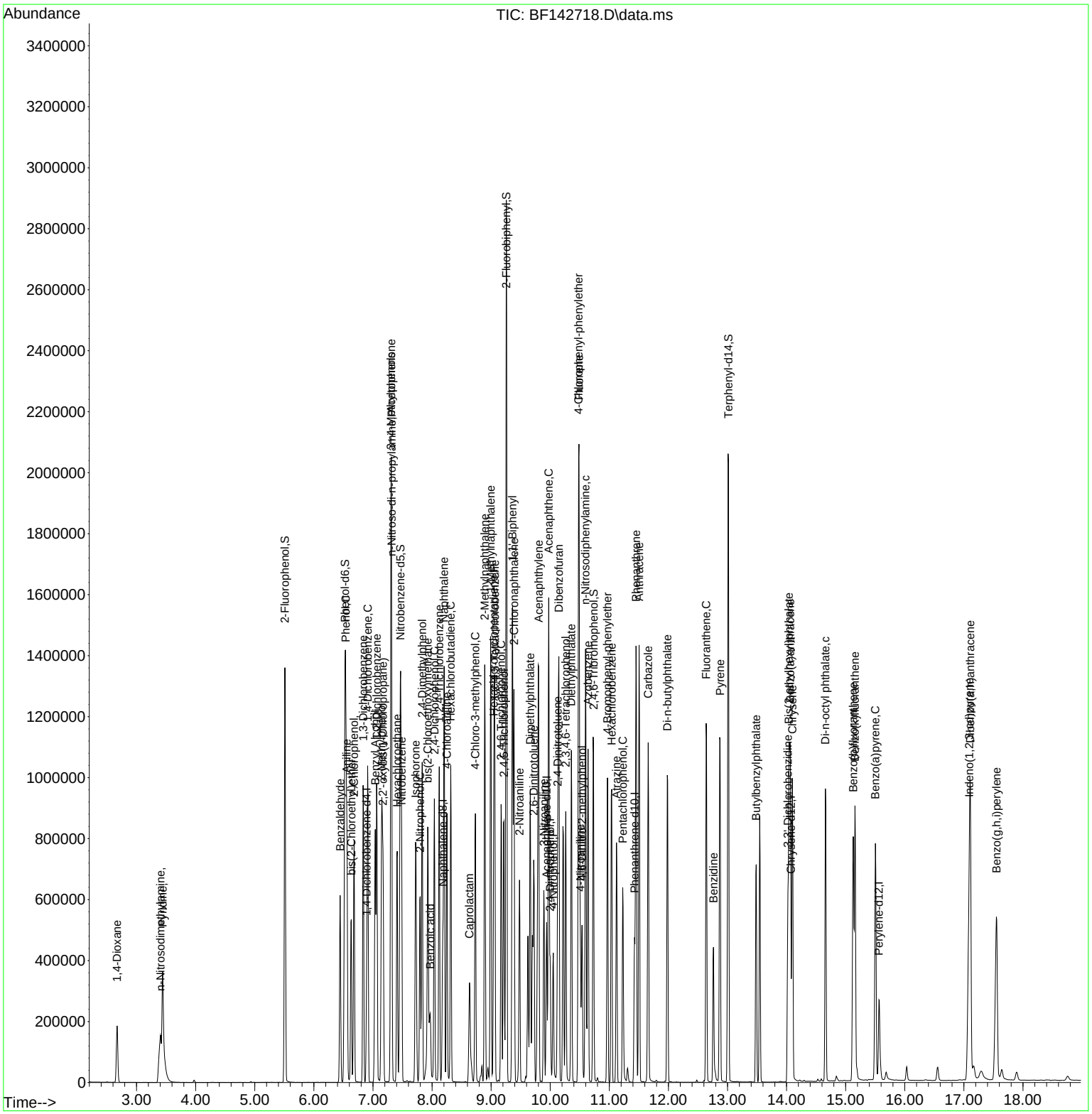
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	191562	58.800	ng	99
46) 1,1'-Biphenyl	9.363	154	720521	57.886	ng	100
47) 2-Chloronaphthalene	9.386	162	532389	57.172	ng	100
48) 2-Nitroaniline	9.481	65	156234	56.877	ng	97
49) Acenaphthylene	9.804	152	887022	57.422	ng	100
50) Dimethylphthalate	9.663	163	611689	56.791	ng	100
51) 2,6-Dinitrotoluene	9.722	165	136180	58.247	ng	94
52) Acenaphthene	9.975	154	554905	58.676	ng	100
53) 3-Nitroaniline	9.892	138	146064	56.156	ng	98
54) 2,4-Dinitrophenol	9.998	184	81703	63.685	ng	93
55) Dibenzofuran	10.145	168	771954	56.888	ng	99
56) 4-Nitrophenol	10.051	139	101876	57.277	ng	99
57) 2,4-Dinitrotoluene	10.128	165	178632	57.408	ng	98
58) Fluorene	10.486	166	595563	54.996	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	159267	58.920	ng	100
60) Diethylphthalate	10.357	149	598763	57.137	ng	100
61) 4-Chlorophenyl-phenyle...	10.481	204	293201	56.952	ng	99
62) 4-Nitroaniline	10.510	138	132255	54.263	ng	98
63) Azobenzene	10.639	77	525675	55.964	ng	99
65) 4,6-Dinitro-2-methylph...	10.539	198	100568	63.997	ng	99
66) n-Nitrosodiphenylamine	10.598	169	518951	63.672	ng	100
67) 4-Bromophenyl-phenylether	10.969	248	178556	63.879	ng	97
68) Hexachlorobenzene	11.039	284	197268	61.808	ng	98
69) Atrazine	11.122	200	142413	58.764	ng	98
70) Pentachlorophenol	11.228	266	109333	63.448	ng	98
71) Phenanthrene	11.451	178	784909	58.077	ng	100
72) Anthracene	11.504	178	812386	58.050	ng	99
73) Carbazole	11.657	167	684308	55.049	ng	99
74) Di-n-butylphthalate	11.980	149	770707	58.582	ng	99
75) Fluoranthene	12.639	202	722554	54.970	ng	99
77) Benzidine	12.763	184	277907	58.454	ng	100
78) Pyrene	12.874	202	712252	62.270	ng	100
80) Butylbenzylphthalate	13.486	149	245824	70.369	ng	98
81) Benzo(a)anthracene	14.063	228	544367	61.517	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	186410	65.923	ng	99
83) Chrysene	14.098	228	496488	59.836	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	375994	90.267	ng	100
85) Di-n-octyl phthalate	14.657	149	682501	83.193	ng	100
87) Indeno(1,2,3-cd)pyrene	17.092	276	703616	63.705	ng	100
88) Benzo(b)fluoranthene	15.127	252	581154	62.612	ng	99
89) Benzo(k)fluoranthene	15.157	252	481088	56.031	ng	100
90) Benzo(a)pyrene	15.504	252	516293	59.542	ng	99
91) Dibenzo(a,h)anthracene	17.110	278	567841	63.529	ng	100
92) Benzo(g,h,i)perylene	17.551	276	560664	60.872	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142718.D
Acq On : 10 Jun 2025 19:50
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jun 11 04:46:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142719.D
Acq On : 10 Jun 2025 20:19
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

Quant Time: Jun 11 04:47:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	79493	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	302818	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	163275	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	254680	20.000	ng	0.00
76) Chrysene-d12	14.074	240	134451	20.000	ng	0.00
86) Perylene-d12	15.568	264	159401	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	683690	145.736	ng	0.01
7) Phenol-d6	6.534	99	828276	150.974	ng	0.01
23) Nitrobenzene-d5	7.469	82	838877	151.958	ng	0.01
42) 2,4,6-Tribromophenol	10.733	330	263313	143.986	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1683411	140.008	ng	0.00
79) Terphenyl-d14	13.016	244	1341427	151.555	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	139665	77.738	ng	98
3) Pyridine	3.440	79	356768	77.107	ng	100
4) n-Nitrosodimethylamine	3.416	42	186856	82.185	ng	100
6) Aniline	6.563	93	551994	74.919	ng	93
8) 2-Chlorophenol	6.681	128	387641	75.563	ng	98
10) Phenol	6.545	94	459718	75.034	ng	86
11) bis(2-Chloroethyl)ether	6.634	93	343229	76.473	ng	100
12) 1,3-Dichlorobenzene	6.840	146	423783	73.798	ng	98
13) 1,4-Dichlorobenzene	6.916	146	429010	73.329	ng	99
14) 1,2-Dichlorobenzene	7.069	146	407726	73.090	ng	100
15) Benzyl Alcohol	7.040	79	320131	79.079	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	511637	70.438	ng	88
17) 2-Methylphenol	7.151	107	296621	75.776	ng	98
18) Hexachloroethane	7.410	117	155047	76.420	ng	98
19) n-Nitroso-di-n-propyla...	7.322	70	261726	80.661	ng	98
20) 3+4-Methylphenols	7.310	107	360549	74.532	ng	99
22) Acetophenone	7.316	105	494731	74.696	ng	99
24) Nitrobenzene	7.487	77	377341	75.974	ng	97
25) Isophorone	7.734	82	708591	78.433	ng	99
26) 2-Nitrophenol	7.798	139	215616	78.773	ng	99
27) 2,4-Dimethylphenol	7.834	122	354230	75.877	ng	99
28) bis(2-Chloroethoxy)met...	7.934	93	431554	76.862	ng	100
29) 2,4-Dichlorophenol	8.045	162	325461	76.711	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	355845	76.062	ng	100
31) Naphthalene	8.204	128	1093209	73.252	ng	99
32) Benzoic acid	7.987	122	225393	80.665	ng	98
33) 4-Chloroaniline	8.251	127	447813	73.120	ng	98
34) Hexachlorobutadiene	8.316	225	222847	76.955	ng	99
35) Caprolactam	8.651	113	89792m	69.799	ng	
36) 4-Chloro-3-methylphenol	8.739	107	330975	74.272	ng	99
37) 2-Methylnaphthalene	8.892	142	684643	72.000	ng	98
38) 1-Methylnaphthalene	8.992	142	702007	71.612	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	346913	73.054	ng	99
41) Hexachlorocyclopentadiene	9.045	237	258602	91.299	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	234753	75.673	ng	98
44) 2,4,5-Trichlorophenol	9.216	196	249904	75.229	ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142719.D
Acq On : 10 Jun 2025 20:19
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025

Quant Time: Jun 11 04:47:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46)	1,1'-Biphenyl	9.363	154	919903	72.479	ng	99
47)	2-Chloronaphthalene	9.386	162	683953	72.031	ng	99
48)	2-Nitroaniline	9.481	65	202823	72.414	ng	99
49)	Acenaphthylene	9.804	152	1139161	72.323	ng	100
50)	Dimethylphthalate	9.669	163	806161	73.402	ng	100
51)	2,6-Dinitrotoluene	9.728	165	174846	73.343	ng	94
52)	Acenaphthene	9.975	154	717734	74.430	ng	99
53)	3-Nitroaniline	9.898	138	192508	72.585	ng	99
54)	2,4-Dinitrophenol	10.004	184	110303	84.319	ng	90
55)	Dibenzofuran	10.145	168	990916	71.616	ng	100
56)	4-Nitrophenol	10.057	139	135550	74.740	ng	99
57)	2,4-Dinitrotoluene	10.133	165	227420	71.678	ng	94
58)	Fluorene	10.492	166	762320	69.038	ng	100
59)	2,3,4,6-Tetrachlorophenol	10.263	232	202852	73.596	ng	99
60)	Diethylphthalate	10.363	149	759980	71.123	ng	99
61)	4-Chlorophenyl-phenyle...	10.480	204	373104	71.075	ng	99
62)	4-Nitroaniline	10.516	138	170338	68.540	ng	99
63)	Azobenzene	10.639	77	682466	71.254	ng	100
65)	4,6-Dinitro-2-methylph...	10.545	198	131400	82.959	ng	99
66)	n-Nitrosodiphenylamine	10.604	169	663248	80.735	ng	100
67)	4-Bromophenyl-phenylether	10.969	248	231210	82.064	ng	96
68)	Hexachlorobenzene	11.039	284	255393	79.389	ng	99
69)	Atrazine	11.128	200	181083	74.132	ng	99
70)	Pentachlorophenol	11.233	266	145096	83.538	ng	98
71)	Phenanthrene	11.457	178	996749	73.171	ng	100
72)	Anthracene	11.504	178	1022318	72.476	ng	100
73)	Carbazole	11.657	167	847728	67.657	ng	99
74)	Di-n-butylphthalate	11.986	149	971270	73.246	ng	100
75)	Fluoranthene	12.645	202	894185	67.491	ng	99
77)	Benzidine	12.763	184	297389	63.003	ng	100
78)	Pyrene	12.874	202	879551	77.450	ng	100
80)	Butylbenzylphthalate	13.486	149	316085	91.133	ng	98
81)	Benzo(a)anthracene	14.063	228	679460	77.337	ng	99
82)	3,3'-Dichlorobenzidine	14.021	252	224931	80.119	ng	99
83)	Chrysene	14.098	228	629301	76.388	ng	99
84)	Bis(2-ethylhexyl)phtha...	14.045	149	481798	116.501	ng	100
85)	Di-n-octyl phthalate	14.663	149	889433	109.198	ng	100
87)	Indeno(1,2,3-cd)pyrene	17.098	276	930657	81.866	ng	100
88)	Benzo(b)fluoranthene	15.127	252	726168	76.012	ng	99
89)	Benzo(k)fluoranthene	15.163	252	662322	74.947	ng	99
90)	Benzo(a)pyrene	15.510	252	680946	76.299	ng	99
91)	Dibenzo(a,h)anthracene	17.115	278	746984	81.196	ng	100
92)	Benzo(g,h,i)perylene	17.562	276	741275	78.194	ng	99

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

ICAL Form

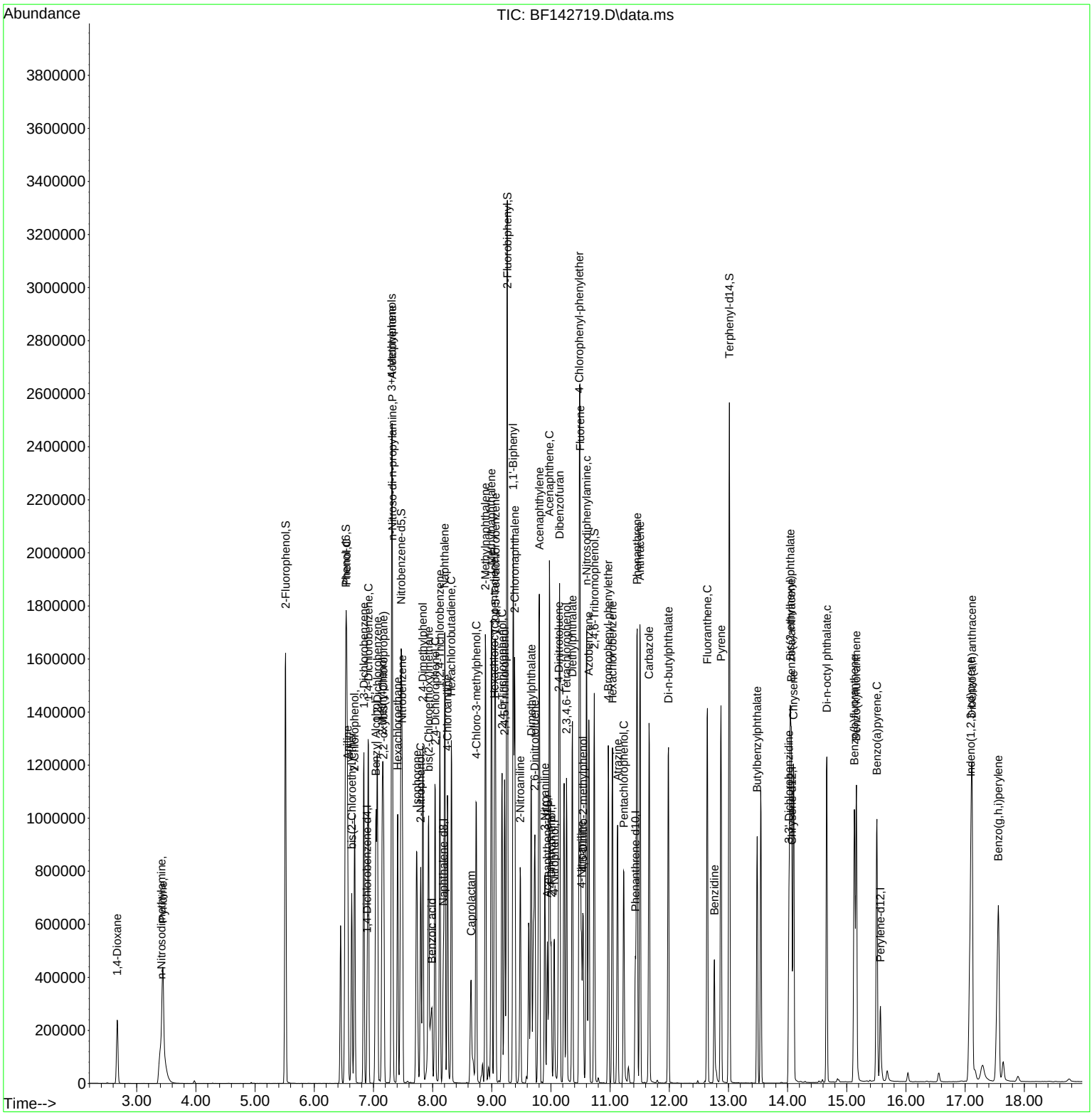
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142719.D
Acq On : 10 Jun 2025 20:19
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 04:47:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 04:40:33 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/11/2025
Supervised By :Jagrut Upadhyay 06/11/2025



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142720.D
Acq On : 10 Jun 2025 20:49
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF061125

Quant Time: Jun 11 05:58:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	75213	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	288852	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	158667	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	249548	20.000	ng	0.00
76) Chrysene-d12	14.068	240	129150	20.000	ng	0.00
86) Perylene-d12	15.562	264	147247	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	371136	84.041	ng	0.00
7) Phenol-d6	6.522	99	435266	83.751	ng	0.00
23) Nitrobenzene-d5	7.457	82	405391	76.808	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	142060	81.692	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	896222	75.043	ng	0.00
79) Terphenyl-d14	13.010	244	690646	73.446	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	71141	40.706	ng	100
3) Pyridine	3.440	79	192629	43.958	ng	99
4) n-Nitrosodimethylamine	3.393	42	99555	44.403	ng	99
6) Aniline	6.557	93	310539	44.644	ng	99
8) 2-Chlorophenol	6.675	128	215825	44.721	ng	99
9) Benzaldehyde	6.445	77	157818	49.036	ng	99
10) Phenol	6.540	94	255700	44.263	ng	94
11) bis(2-Chloroethyl)ether	6.628	93	188668	43.725	ng	99
12) 1,3-Dichlorobenzene	6.834	146	240990	43.756	ng	99
13) 1,4-Dichlorobenzene	6.910	146	244533	43.933	ng	100
14) 1,2-Dichlorobenzene	7.063	146	233860	43.831	ng	100
15) Benzyl Alcohol	7.034	79	174988	44.548	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	296349	43.622	ng	99
17) 2-Methylphenol	7.145	107	165998	44.868	ng	99
18) Hexachloroethane	7.404	117	86610	43.420	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	145187	43.882	ng	100
20) 3+4-Methylphenols	7.298	107	208250	44.648	ng	96
22) Acetophenone	7.304	105	285370	44.413	ng	98
24) Nitrobenzene	7.481	77	206076	43.992	ng	99
25) Isophorone	7.716	82	390476	43.695	ng	99
26) 2-Nitrophenol	7.792	139	119541	45.726	ng	100
27) 2,4-Dimethylphenol	7.828	122	203996	45.831	ng	99
28) bis(2-Chloroethoxy)met...	7.928	93	244684	44.101	ng	99
29) 2,4-Dichlorophenol	8.034	162	186060	45.296	ng	98
30) 1,2,4-Trichlorobenzene	8.122	180	201833	44.466	ng	100
31) Naphthalene	8.204	128	630716	44.151	ng	99
32) Benzoic acid	7.951	122	120199	47.951	ng	99
33) 4-Chloroaniline	8.251	127	255412	44.530	ng	98
34) Hexachlorobutadiene	8.316	225	128362	44.378	ng	98
35) Caprolactam	8.622	113	48061	43.345	ng	99
36) 4-Chloro-3-methylphenol	8.728	107	187896	43.991	ng	98
37) 2-Methylnaphthalene	8.892	142	393355	43.503	ng	98
38) 1-Methylnaphthalene	8.992	142	407036	43.455	ng	100
40) 1,2,4,5-Tetrachloroben...	9.057	216	205039	44.649	ng	99
41) Hexachlorocyclopentadiene	9.045	237	137738	46.731	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	132920	44.714	ng	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	145700	45.379	ng	98
46) 1,1'-Biphenyl	9.357	154	550079	44.647	ng	99
47) 2-Chloronaphthalene	9.381	162	399752	44.040	ng	100
48) 2-Nitroaniline	9.475	65	113944	44.136	ng	99
49) Acenaphthylene	9.798	152	666129	43.524	ng	99
50) Dimethylphthalate	9.657	163	453202	42.773	ng	99
51) 2,6-Dinitrotoluene	9.722	165	99403	43.408	ng	96
52) Acenaphthene	9.975	154	416746	43.917	ng	99
53) 3-Nitroaniline	9.892	138	107590	43.317	ng	98
54) 2,4-Dinitrophenol	9.998	184	57103	45.522	ng	89
55) Dibenzofuran	10.145	168	582555	43.111	ng	99
56) 4-Nitrophenol	10.045	139	72282	42.908	ng	98
57) 2,4-Dinitrotoluene	10.122	165	131755	43.516	ng	98
58) Fluorene	10.486	166	449369	42.112	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	115464	42.746	ng	99
60) Diethylphthalate	10.357	149	439146	41.798	ng	100
61) 4-Chlorophenyl-phenyle...	10.475	204	223388	42.866	ng	99
62) 4-Nitroaniline	10.504	138	92675	41.707	ng	99
63) Azobenzene	10.639	77	396638	43.227	ng	98
65) 4,6-Dinitro-2-methylph...	10.533	198	70617	45.188	ng	99
66) n-Nitrosodiphenylamine	10.598	169	386201	45.023	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	135771	46.092	ng	98
68) Hexachlorobenzene	11.033	284	146469	44.795	ng	100
69) Atrazine	11.122	200	99271	43.408	ng	99
70) Pentachlorophenol	11.227	266	76507	44.637	ng	99
71) Phenanthrene	11.451	178	586368	43.859	ng	100
72) Anthracene	11.504	178	611481	44.214	ng	99
73) Carbazole	11.657	167	497969	43.010	ng	99
74) Di-n-butylphthalate	11.980	149	547884	42.379	ng	100
75) Fluoranthene	12.639	202	517997	40.746	ng	100
77) Benzidine	12.757	184	223533	48.599	ng	100
78) Pyrene	12.869	202	515693	42.968	ng	100
80) Butylbenzylphthalate	13.486	149	172349	48.561	ng	96
81) Benzo(a)anthracene	14.057	228	390623	45.643	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	128006	46.382	ng	99
83) Chrysene	14.098	228	343895	43.522	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	270293	50.747	ng	99
85) Di-n-octyl phthalate	14.657	149	500941	49.022	ng	99
87) Indeno(1,2,3-cd)pyrene	17.086	276	496299	45.483	ng	100
88) Benzo(b)fluoranthene	15.121	252	390203	45.005	ng	100
89) Benzo(k)fluoranthene	15.157	252	362789	43.126	ng	100
90) Benzo(a)pyrene	15.504	252	375192	45.514	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	407127	45.694	ng	99
92) Benzo(g,h,i)perylene	17.545	276	399606	45.103	ng	100

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

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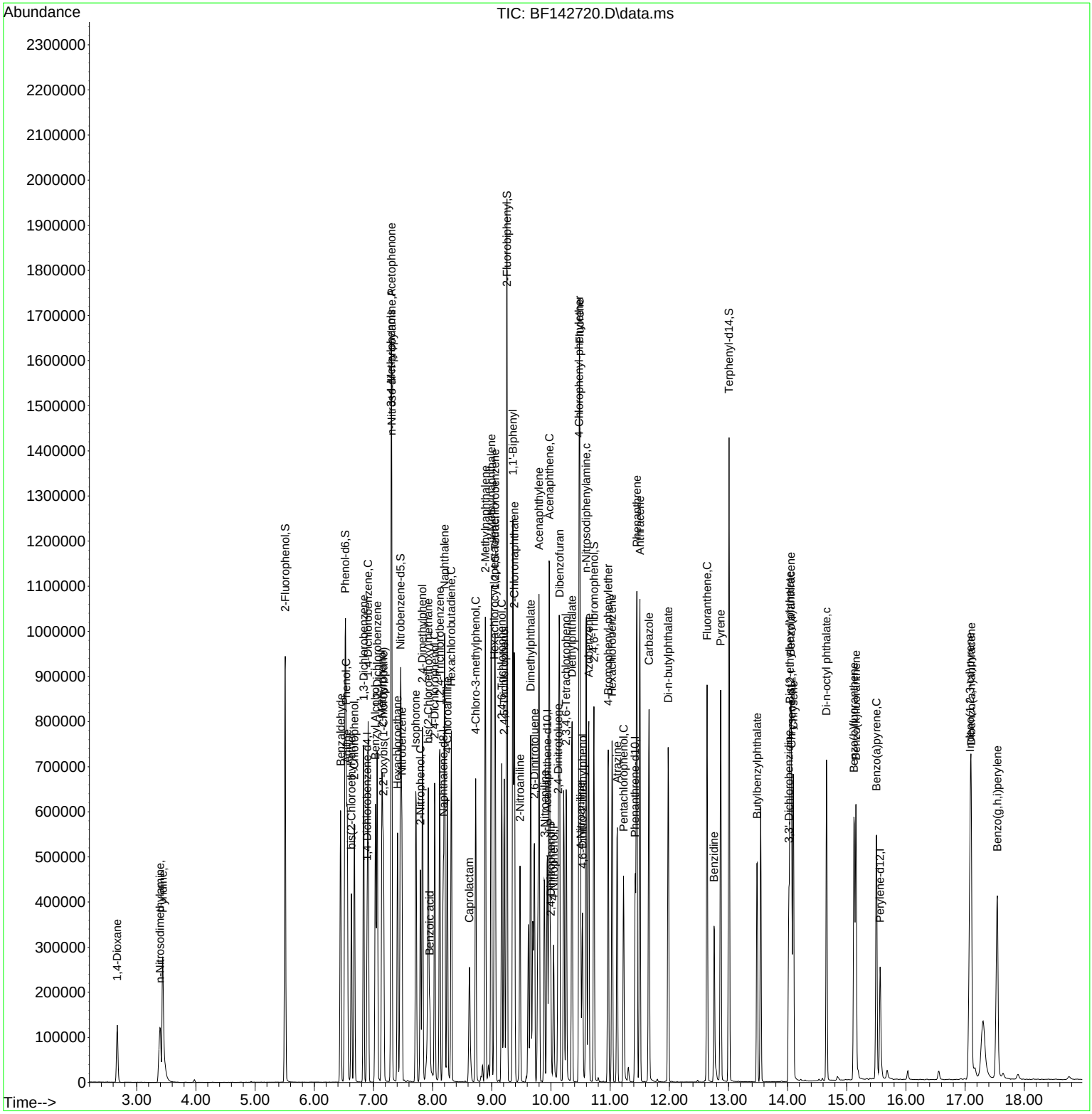

Evaluate Continuing Calibration Report

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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	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	0.465	0.473	-1.7	106	0.01
3		Pyridine	1.165	1.281	-10.0	112	0.01
4		n-Nitrosodimethylamine	0.596	0.662	-11.1	114	0.01
5	S	2-Fluorophenol	1.174	1.234	-5.1	108	0.00
6		Aniline	1.850	2.064	-11.6	114	0.00
7	S	Phenol-d6	1.382	1.447	-4.7	107	0.00
8		2-Chlorophenol	1.283	1.435	-11.8	113	0.00
9		Benzaldehyde	0.856	1.049	-22.5	127	0.00
10	C	Phenol	1.536	1.700	-10.7	114	0.00
11		bis(2-Chloroethyl)ether	1.147	1.254	-9.3	113	0.00
12		1,3-Dichlorobenzene	1.465	1.602	-9.4	112	0.00
13	C	1,4-Dichlorobenzene	1.480	1.626	-9.9	114	0.00
14		1,2-Dichlorobenzene	1.419	1.555	-9.6	113	0.00
15		Benzyl Alcohol	1.045	1.163	-11.3	112	0.00
16		2,2'-oxybis(1-Chloropropane	1.806	1.970	-9.1	111	0.00
17		2-Methylphenol	0.984	1.104	-12.2	113	0.00
18		Hexachloroethane	0.530	0.576	-8.7	112	0.00
19	P	n-Nitroso-di-n-propylamine	0.880	0.965	-9.7	112	0.00
20		3+4-Methylphenols	1.240	1.384	-11.6	113	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
22		Acetophenone	0.445	0.494	-11.0	112	0.00
23	S	Nitrobenzene-d5	0.365	0.351	3.8	97	0.00
24		Nitrobenzene	0.324	0.357	-10.2	110	0.00
25		Isophorone	0.619	0.676	-9.2	110	0.00
26	C	2-Nitrophenol	0.181	0.207	-14.4	113	0.00
27		2,4-Dimethylphenol	0.308	0.353	-14.6	115	0.00
28		bis(2-Chloroethoxy)methane	0.384	0.424	-10.4	111	0.00
29	C	2,4-Dichlorophenol	0.284	0.322	-13.4	113	0.00
30		1,2,4-Trichlorobenzene	0.314	0.349	-11.1	112	0.00
31		Naphthalene	0.989	1.092	-10.4	111	0.00
32		Benzoic acid	0.174	0.208	-19.5	118	0.00
33		4-Chloroaniline	0.397	0.442	-11.3	109	0.00
34	C	Hexachlorobutadiene	0.200	0.222	-11.0	111	0.00
35		Caprolactam	0.077	0.083	-7.8	110	0.00
36	C	4-Chloro-3-methylphenol	0.296	0.325	-9.8	111	0.00
37		2-Methylnaphthalene	0.626	0.681	-8.8	109	0.00
38		1-Methylnaphthalene	0.649	0.705	-8.6	110	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	0.579	0.646	-11.6	111	0.00
41	P	Hexachlorocyclopentadiene	0.372	0.434	-16.7	112	0.00
42	S	2,4,6-Tribromophenol	0.219	0.224	-2.3	102	0.00
43	C	2,4,6-Trichlorophenol	0.375	0.419	-11.7	109	0.00
44		2,4,5-Trichlorophenol	0.405	0.459	-13.3	112	0.00
45	S	2-Fluorobiphenyl	1.505	1.412	6.2	95	0.00
46		1,1'-Biphenyl	1.553	1.733	-11.6	112	0.00
47		2-Chloronaphthalene	1.144	1.260	-10.1	110	0.00

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Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.325	0.359	-10.5	108	0.00
49		Acenaphthylene	1.929	2.099	-8.8	108	0.00
50		Dimethylphthalate	1.336	1.428	-6.9	107	0.00
51		2,6-Dinitrotoluene	0.289	0.313	-8.3	107	0.00
52	C	Acenaphthene	1.196	1.313	-9.8	109	0.00
53		3-Nitroaniline	0.313	0.339	-8.3	107	0.00
54	P	2,4-Dinitrophenol	0.158	0.180	-13.9	111	0.00
55		Dibenzofuran	1.703	1.836	-7.8	109	0.00
56	P	4-Nitrophenol	0.212	0.228	-7.5	105	0.00
57		2,4-Dinitrotoluene	0.382	0.415	-8.6	107	0.00
58		Fluorene	1.345	1.416	-5.3	108	0.00
59		2,3,4,6-Tetrachlorophenol	0.340	0.364	-7.1	108	0.00
60		Diethylphthalate	1.324	1.384	-4.5	107	0.00
61		4-Chlorophenyl-phenylether	0.657	0.704	-7.2	108	0.00
62		4-Nitroaniline	0.280	0.292	-4.3	105	0.00
63		Azobenzene	1.157	1.250	-8.0	109	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
65		4,6-Dinitro-2-methylphenol	0.125	0.141	-12.8	105	0.00
66	c	n-Nitrosodiphenylamine	0.687	0.774	-12.7	107	0.00
67		4-Bromophenyl-phenylether	0.236	0.272	-15.3	109	0.00
68		Hexachlorobenzene	0.262	0.293	-11.8	107	0.00
69		Atrazine	0.183	0.199	-8.7	103	0.00
70	C	Pentachlorophenol	0.137	0.153	-11.7	102	0.00
71		Phenanthrene	1.071	1.175	-9.7	105	0.00
72		Anthracene	1.108	1.225	-10.6	107	0.00
73		Carbazole	0.928	0.998	-7.5	103	0.00
74		Di-n-butylphthalate	1.036	1.098	-6.0	101	0.00
75	C	Fluoranthene	1.019	1.038	-1.9	100	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	97	0.00
77		Benzidine	0.712	0.865	-21.5	105	0.00
78		Pyrene	1.859	1.996	-7.4	103	0.00
79	S	Terphenyl-d14	1.456	1.337	8.2	89	0.00
80		Butylbenzylphthalate	0.550	0.667	-21.3	111	0.00
81		Benzo(a)anthracene	1.325	1.512	-14.1	108	0.00
82		3,3'-Dichlorobenzidine	0.427	0.496	-16.2	109	0.00
83		Chrysene	1.224	1.331	-8.7	110	0.00
84		Bis(2-ethylhexyl)phthalate	0.825	1.046	-26.8#	113	0.00
85	c	Di-n-octyl phthalate	1.582	1.939	-22.6#	112	0.00
86	I	Perylene-d12	1.000	1.000	0.0	100	0.00
87		Indeno(1,2,3-cd)pyrene	1.482	1.685	-13.7	113	0.00
88		Benzo(b)fluoranthene	1.178	1.325	-12.5	114	0.00
89		Benzo(k)fluoranthene	1.143	1.232	-7.8	115	0.00
90	C	Benzo(a)pyrene	1.120	1.274	-13.7	115	0.00
91		Dibenzo(a,h)anthracene	1.210	1.382	-14.2	112	0.00
92		Benzo(g,h,i)perylene	1.203	1.357	-12.8	112	0.00

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Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

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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	40.706	-1.8	106	0.01
3		Pyridine	40.000	43.958	-9.9	112	0.01
4		n-Nitrosodimethylamine	40.000	44.403	-11.0	114	0.01
5	S	2-Fluorophenol	80.000	84.041	-5.1	108	0.00
6		Aniline	40.000	44.644	-11.6	114	0.00
7	S	Phenol-d6	80.000	83.751	-4.7	107	0.00
8		2-Chlorophenol	40.000	44.721	-11.8	113	0.00
9		Benzaldehyde	40.000	49.036	-22.6	127	0.00
10	C	Phenol	40.000	44.263	-10.7	114	0.00
11		bis(2-Chloroethyl)ether	40.000	43.725	-9.3	113	0.00
12		1,3-Dichlorobenzene	40.000	43.756	-9.4	112	0.00
13	C	1,4-Dichlorobenzene	40.000	43.933	-9.8	114	0.00
14		1,2-Dichlorobenzene	40.000	43.831	-9.6	113	0.00
15		Benzyl Alcohol	40.000	44.548	-11.4	112	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	43.622	-9.1	111	0.00
17		2-Methylphenol	40.000	44.868	-12.2	113	0.00
18		Hexachloroethane	40.000	43.420	-8.6	112	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	43.882	-9.7	112	0.00
20		3+4-Methylphenols	40.000	44.648	-11.6	113	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	99	0.00
22		Acetophenone	40.000	44.413	-11.0	112	0.00
23	S	Nitrobenzene-d5	80.000	76.808	4.0	97	0.00
24		Nitrobenzene	40.000	43.992	-10.0	110	0.00
25		Isophorone	40.000	43.695	-9.2	110	0.00
26	C	2-Nitrophenol	40.000	45.726	-14.3	113	0.00
27		2,4-Dimethylphenol	40.000	45.831	-14.6	115	0.00
28		bis(2-Chloroethoxy)methane	40.000	44.101	-10.3	111	0.00
29	C	2,4-Dichlorophenol	40.000	45.296	-13.2	113	0.00
30		1,2,4-Trichlorobenzene	40.000	44.466	-11.2	112	0.00
31		Naphthalene	40.000	44.151	-10.4	111	0.00
32		Benzoic acid	40.000	47.951	-19.9	118	0.00
33		4-Chloroaniline	40.000	44.530	-11.3	109	0.00
34	C	Hexachlorobutadiene	40.000	44.378	-10.9	111	0.00
35		Caprolactam	40.000	43.345	-8.4	110	0.00
36	C	4-Chloro-3-methylphenol	40.000	43.991	-10.0	111	0.00
37		2-Methylnaphthalene	40.000	43.503	-8.8	109	0.00
38		1-Methylnaphthalene	40.000	43.455	-8.6	110	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	44.649	-11.6	111	0.00
41	P	Hexachlorocyclopentadiene	40.000	46.731	-16.8	112	0.00
42	S	2,4,6-Tribromophenol	80.000	81.692	-2.1	102	0.00
43	C	2,4,6-Trichlorophenol	40.000	44.714	-11.8	109	0.00
44		2,4,5-Trichlorophenol	40.000	45.379	-13.4	112	0.00
45	S	2-Fluorobiphenyl	80.000	75.043	6.2	95	0.00
46		1,1'-Biphenyl	40.000	44.647	-11.6	112	0.00
47		2-Chloronaphthalene	40.000	44.040	-10.1	110	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142720.D
Acq On : 10 Jun 2025 20:49
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF061125

Quant Time: Jun 11 05:58:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
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	44.136	-10.3	108	0.00
49		Acenaphthylene	40.000	43.524	-8.8	108	0.00
50		Dimethylphthalate	40.000	42.773	-6.9	107	0.00
51		2,6-Dinitrotoluene	40.000	43.408	-8.5	107	0.00
52	C	Acenaphthene	40.000	43.917	-9.8	109	0.00
53		3-Nitroaniline	40.000	43.317	-8.3	107	0.00
54	P	2,4-Dinitrophenol	40.000	45.522	-13.8	111	0.00
55		Dibenzofuran	40.000	43.111	-7.8	109	0.00
56	P	4-Nitrophenol	40.000	42.908	-7.3	105	0.00
57		2,4-Dinitrotoluene	40.000	43.516	-8.8	107	0.00
58		Fluorene	40.000	42.112	-5.3	108	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.746	-6.9	108	0.00
60		Diethylphthalate	40.000	41.798	-4.5	107	0.00
61		4-Chlorophenyl-phenylether	40.000	42.866	-7.2	108	0.00
62		4-Nitroaniline	40.000	41.707	-4.3	105	0.00
63		Azobenzene	40.000	43.227	-8.1	109	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	93	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.188	-13.0	105	0.00
66	c	n-Nitrosodiphenylamine	40.000	45.023	-12.6	107	0.00
67		4-Bromophenyl-phenylether	40.000	46.092	-15.2	109	0.00
68		Hexachlorobenzene	40.000	44.795	-12.0	107	0.00
69		Atrazine	40.000	43.408	-8.5	103	0.00
70	C	Pentachlorophenol	40.000	44.637	-11.6	102	0.00
71		Phenanthrene	40.000	43.859	-9.6	105	0.00
72		Anthracene	40.000	44.214	-10.5	107	0.00
73		Carbazole	40.000	43.010	-7.5	103	0.00
74		Di-n-butylphthalate	40.000	42.379	-5.9	101	0.00
75	C	Fluoranthene	40.000	40.746	-1.9	100	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	97	0.00
77		Benzidine	40.000	48.599	-21.5	105	0.00
78		Pyrene	40.000	42.968	-7.4	103	0.00
79	S	Terphenyl-d14	80.000	73.446	8.2	89	0.00
80		Butylbenzylphthalate	40.000	48.561	-21.4	111	0.00
81		Benzo(a)anthracene	40.000	45.643	-14.1	108	0.00
82		3,3'-Dichlorobenzidine	40.000	46.382	-16.0	109	0.00
83		Chrysene	40.000	43.522	-8.8	110	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	50.747	-26.9#	113	0.00
85	c	Di-n-octyl phthalate	40.000	49.022	-22.6#	112	0.00
86	I	Perylene-d12	20.000	20.000	0.0	100	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	45.483	-13.7	113	0.00
88		Benzo(b)fluoranthene	40.000	45.005	-12.5	114	0.00
89		Benzo(k)fluoranthene	40.000	43.126	-7.8	115	0.00
90	C	Benzo(a)pyrene	40.000	45.514	-13.8	115	0.00
91		Dibenzo(a,h)anthracene	40.000	45.694	-14.2	112	0.00
92		Benzo(g,h,i)perylene	40.000	45.103	-12.8	112	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142720.D
Acq On : 10 Jun 2025 20:49
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF061125

Quant Time: Jun 11 05:58:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

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

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

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

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: LIRO01

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG No.: Q2333

Instrument ID: BNA_P Calibration Date(s): 06/06/2025 06/06/2025

Calibration Time(s): 10:30 15:18

LAB FILE ID: RRF2.5 = BP024860.D RRF005 = BP024861.D RRF010 = BP024862.D
RRF020 = BP024863.D RRF040 = BP024864.D RRF050 = BP024865.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.127	1.139	1.207	1.163	1.283	1.198	4.9
Phenol-d6		1.507	1.528	1.588	1.545	1.676	1.585	4.5
Nitrobenzene-d5		0.407	0.397	0.423	0.404	0.444	0.412	4.9
2-Fluorobiphenyl		1.542	1.507	1.517	1.390	1.563	1.485	4.4
Acenaphthylene		1.880	1.851	1.892	1.768	1.939	1.863	3.2
Acenaphthene		1.106	1.064	1.090	1.020	1.087	1.067	2.9
Fluorene		1.437	1.394	1.420	1.304	1.434	1.384	3.8
2,4,6-Tribromophenol		0.256	0.264	0.279	0.267	0.298	0.277	5.3
Phenanthrene		1.158	1.108	1.110	1.056	1.161	1.105	4.1
Anthracene		1.129	1.093	1.137	1.072	1.188	1.119	3.6
Fluoranthene		1.300	1.287	1.307	1.223	1.344	1.281	3.3
Pyrene		1.307	1.195	1.261	1.184	1.322	1.249	4.4
Terphenyl-d14		1.178	1.073	1.146	1.089	1.164	1.116	4.6
Benzo(a)anthracene		1.312	1.234	1.288	1.219	1.347	1.279	3.7
Chrysene		1.252	1.174	1.229	1.144	1.279	1.212	4.1
Benzo(b)fluoranthene		1.103	1.104	1.133	1.127	1.232	1.145	4.1
Benzo(k)fluoranthene		1.165	1.144	1.181	1.106	1.259	1.165	4.1
Benzo(a)pyrene		1.096	1.069	1.127	1.070	1.214	1.118	4.5
Indeno(1,2,3-cd)pyrene		1.427	1.402	1.469	1.412	1.559	1.459	3.9
Dibenzo(a,h)anthracene		1.151	1.143	1.202	1.143	1.279	1.188	4.3
Benzo(g,h,i)perylene		1.172	1.127	1.183	1.136	1.261	1.179	3.9

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-BF061125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 11 05:56:09 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142712.D 5.0 =BF142713.D 10 =BF142714.D 20 =BF142715.D 40 =BF142716.D 50 =BF142717.D 60 =BF142718.D 80 =BF1427
19.D

		Compound	2.5	5.0	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.499	0.448	0.472	0.455	0.481	0.460	0.439	0.465	4.40
3)		Pyridine		1.172	1.129	1.159	1.160	1.222	1.193	1.122	1.165	3.00
4)		n-Nitrosodimet...			0.558	0.590	0.591	0.633	0.617	0.588	0.596	4.36
5)	S	2-Fluorophenol		1.238	1.170	1.199	1.161	1.220	1.156	1.075	1.174	4.55
6)		Aniline		1.866	1.788	1.894	1.848	1.955	1.861	1.736	1.850	3.83
7)	S	Phenol-d6		1.434	1.339	1.400	1.376	1.446	1.377	1.302	1.382	3.67
8)		2-Chlorophenol		1.288	1.254	1.300	1.290	1.347	1.286	1.219	1.283	3.09
9)		Benzaldehyde			0.943	0.950	0.839	0.839	0.708		0.856	11.52
10)	C	Phenol		1.550	1.503	1.577	1.522	1.607	1.547	1.446	1.536	3.42
11)		bis(2-Chloroet...		1.222	1.118	1.149	1.130	1.202	1.131	1.079	1.147	4.29
12)		1,3-Dichlorobe...		1.557	1.483	1.504	1.451	1.513	1.411	1.333	1.465	5.08
13)	C	1,4-Dichlorobe...		1.596	1.483	1.519	1.454	1.528	1.431	1.349	1.480	5.34
14)		1,2-Dichlorobe...		1.554	1.418	1.444	1.401	1.457	1.375	1.282	1.419	5.83
15)		Benzyl Alcohol			0.970	1.049	1.059	1.121	1.061	1.007	1.045	4.95
16)		2,2'-oxybis(1-...		1.957	1.812	1.840	1.806	1.875	1.746	1.609	1.806	6.03
17)		2-Methylphenol		0.978	0.950	0.995	0.992	1.043	0.995	0.933	0.984	3.61
18)		Hexachloroethane		0.562	0.521	0.545	0.524	0.552	0.522	0.488	0.530	4.69
19)	P	n-Nitroso-di-n...	0.885	0.912	0.870	0.886	0.878	0.921	0.863	0.823	0.880	3.43
20)		3+4-Methylphenols			1.261	1.285	1.246	1.299	1.218	1.134	1.240	4.80
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.475	0.451	0.458	0.435	0.454	0.433	0.408	0.445	4.79
23)	S	Nitrobenzene-d5		0.381	0.363	0.369	0.358	0.378	0.363	0.346	0.365	3.24
24)		Nitrobenzene		0.338	0.313	0.326	0.320	0.335	0.327	0.312	0.324	3.10
25)		Isophorone		0.657	0.621	0.628	0.603	0.630	0.606	0.585	0.619	3.77
26)	C	2-Nitrophenol		0.172	0.174	0.183	0.181	0.192	0.187	0.178	0.181	3.92
27)		2,4-Dimethylph...		0.318	0.303	0.311	0.304	0.321	0.308	0.292	0.308	3.14
28)		bis(2-Chloroet...		0.408	0.381	0.392	0.377	0.397	0.378	0.356	0.384	4.31
29)	C	2,4-Dichloroph...		0.284	0.281	0.292	0.280	0.300	0.285	0.269	0.284	3.51
30)		1,2,4-Trichlor...		0.337	0.313	0.322	0.306	0.322	0.307	0.294	0.314	4.42
31)		Naphthalene		1.065	0.997	1.021	0.972	1.008	0.958	0.903	0.989	5.20
32)		Benzoic acid			0.137	0.162	0.174	0.192	0.190	0.186	0.174	12.16
33)		4-Chloroaniline		0.429	0.389	0.399	0.399	0.408	0.386	0.370	0.397	4.68
34)	C	Hexachlorobuta...		0.210	0.204	0.206	0.197	0.205	0.196	0.184	0.200	4.41
35)		Caprolactam			0.077	0.079	0.075	0.079	0.077	0.074	0.077	2.82
36)	C	4-Chloro-3-met...		0.317	0.299	0.303	0.289	0.301	0.287	0.273	0.296	4.76
37)		2-Methylnaphth...		0.674	0.649	0.641	0.618	0.636	0.599	0.565	0.626	5.72
38)		1-Methylnaphth...		0.727	0.666	0.669	0.629	0.650	0.619	0.580	0.649	7.16

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.585	0.592	0.589	0.568	0.618	0.570	0.531	0.579	4.64
41)	P	Hexachlorocycl...		0.297	0.348	0.375	0.414	0.400	0.396	0.372	11.64
42)	S	2,4,6-Tribromo...	0.236	0.223	0.224	0.213	0.226	0.210	0.202	0.219	5.28
43)	C	2,4,6-Trichlor...	0.349	0.373	0.383	0.373	0.405	0.380	0.359	0.375	4.79
44)		2,4,5-Trichlor...	0.404	0.404	0.413	0.400	0.431	0.399	0.383	0.405	3.61
45)	S	2-Fluorobiphenyl	1.690	1.610	1.569	1.444	1.535	1.402	1.289	1.505	9.04
46)		1,1'-Biphenyl	1.630	1.617	1.587	1.506	1.622	1.500	1.409	1.553	5.39
47)		2-Chloronaphth...	1.190	1.172	1.178	1.117	1.197	1.108	1.047	1.144	4.82
48)		2-Nitroaniline	0.320	0.321	0.333	0.323	0.345	0.325	0.311	0.325	3.38
49)		Acenaphthylene	2.053	1.986	2.003	1.881	1.991	1.847	1.744	1.929	5.65
50)		Dimethylphthalate	1.444	1.368	1.359	1.291	1.379	1.273	1.234	1.336	5.42
51)		2,6-Dinitrotol...	0.307	0.283	0.295	0.285	0.299	0.283	0.268	0.289	4.49
52)	C	Acenaphthene	1.266	1.222	1.224	1.170	1.237	1.155	1.099	1.196	4.80
53)		3-Nitroaniline	0.334	0.313	0.316	0.307	0.322	0.304	0.295	0.313	4.08
54)	P	2,4-Dinitrophenol		0.123	0.154	0.157	0.176	0.170	0.169	0.158	12.18
55)		Dibenzofuran	1.855	1.777	1.783	1.643	1.741	1.607	1.517	1.703	6.93
56)	P	4-Nitrophenol		0.203	0.219	0.210	0.222	0.212	0.208	0.212	3.42
57)		2,4-Dinitrotol...	0.396	0.383	0.399	0.377	0.396	0.372	0.348	0.382	4.73
58)		Fluorene	1.547	1.429	1.397	1.279	1.357	1.240	1.167	1.345	9.49
59)		2,3,4,6-Tetrac...	0.364	0.339	0.357	0.327	0.354	0.332	0.311	0.340	5.58
60)		Diethylphthalate	1.508	1.392	1.372	1.256	1.332	1.246	1.164	1.324	8.55
61)		4-Chlorophenyl...	0.748	0.692	0.680	0.633	0.663	0.610	0.571	0.657	8.84
62)		4-Nitroaniline	0.297	0.281	0.294	0.270	0.283	0.275	0.261	0.280	4.58
63)		Azobenzene	1.290	1.186	1.178	1.115	1.187	1.094	1.045	1.157	6.89
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.104	0.123	0.125	0.137	0.133	0.129	0.125	9.17
66)	c	n-Nitrosodiphe...	0.710	0.679	0.693	0.672	0.722	0.685	0.651	0.687	3.45
67)		4-Bromophenyl-...	0.240	0.229	0.238	0.231	0.252	0.236	0.227	0.236	3.52
68)		Hexachlorobenzene	0.270	0.261	0.263	0.255	0.275	0.260	0.251	0.262	3.17
69)		Atrazine	0.185	0.174	0.188	0.179	0.191	0.188	0.178	0.183	3.33
70)	C	Pentachlorophenol		0.118	0.133	0.139	0.148	0.144	0.142	0.137	7.80
71)		Phenanthrene	1.165	1.100	1.094	1.036	1.091	1.035	0.978	1.071	5.61
72)		Anthracene	1.203	1.145	1.140	1.064	1.132	1.072	1.004	1.108	5.96
73)		Carbazole	1.003	0.960	0.968	0.898	0.931	0.903	0.832	0.928	6.07
74)		Di-n-butylphth...	1.105	1.048	1.072	1.005	1.053	1.017	0.953	1.036	4.76
75)	C	Fluoranthene	1.184	1.083	1.081	0.965	0.988	0.953	0.878	1.019	10.08
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.711	0.772	0.799	0.754	0.684	0.553	0.712	12.40
78)		Pyrene	2.014	1.918	1.928	1.883	1.878	1.753	1.635	1.859	6.75
79)	S	Terphenyl-d14	1.609	1.562	1.556	1.462	1.430	1.327	1.247	1.456	9.11
80)		Butylbenzylpht...	0.435	0.486	0.526	0.581	0.626	0.605	0.588	0.550	12.67
81)		Benzo(a)anthra...	1.367	1.273	1.284	1.350	1.400	1.340	1.263	1.325	3.94
82)		3,3'-Dichlorob...		0.370	0.403	0.442	0.473	0.459	0.418	0.427	8.88
83)		Chrysene	1.298	1.208	1.245	1.172	1.250	1.222	1.170	1.224	3.72
84)		Bis(2-ethylhex...	0.616	0.709	0.756	0.895	0.977	0.926	0.896	0.825	16.02
85)	c	Di-n-octyl pht...		1.284	1.385	1.677	1.816	1.680	1.654	1.582	12.84

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.438	1.406	1.458	1.498	1.602	1.514	1.460	1.482	4.31
88)		Benzo(b)fluora...	1.256	1.094	1.112	1.162	1.230	1.251	1.139	1.178	5.71
89)		Benzo(k)fluora...	1.236	1.178	1.245	1.076	1.189	1.035	1.039	1.143	7.94
90)	C	Benzo(a)pyrene	1.164	1.085	1.122	1.104	1.184	1.111	1.068	1.120	3.70
91)		Dibenzo(a,h)an...	1.134	1.176	1.214	1.236	1.318	1.222	1.172	1.210	4.87
92)		Benzo(g,h,i)pe...	1.201	1.164	1.178	1.216	1.295	1.207	1.163	1.203	3.77

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 06 16:20:27 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024860.D 5 =BP024861.D 10 =BP024862.D 20 =BP024863.D 40 =BP024864.D 50 =BP024865.D 60 =BP024866.D 80 =BP0248
67.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.564	0.529	0.524	0.495	0.546	0.515	0.517	0.527	4.21
3)		Pyridine		1.151	1.183	1.265	1.226	1.370	1.367	1.315	1.268	6.84
4)		n-Nitrosodimet...			0.478	0.509	0.502	0.542	0.554	0.525	0.518	5.36
5)	S	2-Fluorophenol		1.127	1.139	1.207	1.163	1.283	1.253	1.215	1.198	4.85
6)		Aniline		1.917	1.892	2.016	1.978	2.145	2.182	2.031	2.023	5.37
7)	S	Phenol-d6		1.507	1.528	1.588	1.545	1.676	1.689	1.564	1.585	4.49
8)		2-Chlorophenol		1.336	1.290	1.346	1.314	1.453	1.422	1.348	1.358	4.29
9)		Benzaldehyde			1.038	1.071	0.873	0.985	0.869	0.646	0.914	16.98
10)	C	Phenol		1.560	1.564	1.616	1.587	1.725	1.759	1.629	1.634	4.78
11)		bis(2-Chloroet...		1.222	1.277	1.334	1.234	1.363	1.322	1.246	1.285	4.26
12)		1,3-Dichlorobe...		1.570	1.515	1.537	1.425	1.571	1.519	1.471	1.515	3.49
13)	C	1,4-Dichlorobe...		1.596	1.507	1.535	1.439	1.604	1.534	1.488	1.529	3.82
14)		1,2-Dichlorobe...		1.529	1.637	1.488	1.401	1.540	1.492	1.422	1.501	5.25
15)		Benzyl Alcohol			1.137	1.185	1.170	1.289	1.309	1.211	1.217	5.63
16)		2,2'-oxybis(1-...		1.748	1.732	1.722	1.583	1.751	1.667	1.574	1.682	4.54
17)		2-Methylphenol		1.053	1.149	1.138	1.106	1.210	1.211	1.121	1.141	4.94
18)		Hexachloroethane		0.591	0.565	0.581	0.545	0.611	0.574	0.562	0.576	3.73
19)	P	n-Nitroso-di-n...	0.984	1.101	1.105	1.107	1.043	1.141	1.113	1.029	1.078	4.93
20)		3+4-Methylphenols			1.507	1.548	1.493	1.631	1.648	1.515	1.557	4.29
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.506	0.521	0.511	0.491	0.535	0.510	0.463	0.505	4.58
23)	S	Nitrobenzene-d5		0.407	0.397	0.423	0.404	0.444	0.423	0.383	0.412	4.89
24)		Nitrobenzene		0.366	0.351	0.375	0.360	0.392	0.376	0.339	0.366	4.81
25)		Isophorone		0.704	0.678	0.724	0.694	0.764	0.726	0.704	0.713	3.91
26)	C	2-Nitrophenol		0.154	0.157	0.178	0.180	0.201	0.195	0.198	0.180	10.62
27)		2,4-Dimethylph...		0.294	0.286	0.310	0.303	0.331	0.320	0.318	0.309	5.12
28)		bis(2-Chloroet...		0.414	0.408	0.438	0.414	0.465	0.423	0.416	0.426	4.70
29)	C	2,4-Dichloroph...		0.246	0.272	0.300	0.292	0.327	0.313	0.323	0.296	9.81
30)		1,2,4-Trichlor...		0.335	0.319	0.335	0.317	0.352	0.330	0.351	0.334	4.16
31)		Naphthalene		1.071	1.022	1.044	0.989	1.079	1.035	0.935	1.025	4.86
32)		Benzoic acid			0.159	0.181	0.204	0.230	0.235	0.243	0.209	16.01
33)		4-Chloroaniline		0.397	0.401	0.435	0.426	0.471	0.463	0.414	0.429	6.72
34)	C	Hexachlorobuta...		0.203	0.199	0.208	0.194	0.218	0.198	0.189	0.201	4.76
35)		Caprolactam			0.098	0.109	0.110	0.118	0.116	0.104	0.109	6.91
36)	C	4-Chloro-3-met...		0.312	0.322	0.351	0.341	0.374	0.363	0.329	0.342	6.58
37)		2-Methylnaphth...		0.659	0.638	0.659	0.633	0.696	0.664	0.602	0.650	4.54
38)		1-Methylnaphth...		0.720	0.680	0.718	0.671	0.741	0.693	0.643	0.695	4.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.568	0.561	0.568	0.538	0.601	0.574	0.562	0.568	3.31
41)	P	Hexachlorocycl...		0.259	0.315	0.337	0.404	0.369	0.394	0.346	15.74
42)	S	2,4,6-Tribromo...	0.256	0.264	0.279	0.267	0.298	0.286	0.285	0.277	5.26
43)	C	2,4,6-Trichlor...	0.342	0.352	0.386	0.375	0.411	0.404	0.396	0.381	6.86
44)		2,4,5-Trichlor...	0.349	0.379	0.414	0.405	0.448	0.436	0.426	0.408	8.44
45)	S	2-Fluorobiphenyl	1.542	1.507	1.517	1.390	1.563	1.464	1.409	1.485	4.44
46)		1,1'-Biphenyl	1.477	1.456	1.485	1.386	1.509	1.458	1.403	1.453	3.05
47)		2-Chloronaphth...	1.123	1.104	1.135	1.069	1.171	1.136	1.081	1.117	3.16
48)		2-Nitroaniline	0.289	0.324	0.344	0.346	0.371	0.374	0.355	0.343	8.59
49)		Acenaphthylene	1.880	1.851	1.892	1.768	1.939	1.904	1.805	1.863	3.19
50)		Dimethylphthalate	1.515	1.450	1.501	1.400	1.550	1.473	1.438	1.475	3.45
51)		2,6-Dinitrotol...	0.299	0.301	0.326	0.312	0.339	0.333	0.317	0.318	4.86
52)	C	Acenaphthene	1.106	1.064	1.090	1.020	1.087	1.069	1.036	1.067	2.86
53)		3-Nitroaniline	0.263	0.292	0.337	0.338	0.367	0.364	0.349	0.330	11.74
54)	P	2,4-Dinitrophenol		0.117	0.155	0.179	0.203	0.208	0.205	0.178	20.23
55)		Dibenzofuran	1.815	1.721	1.756	1.627	1.757	1.702	1.615	1.713	4.22
56)	P	4-Nitrophenol		0.142	0.213	0.248	0.276	0.281	0.275	0.239	22.62
57)		2,4-Dinitrotol...	0.390	0.416	0.457	0.437	0.487	0.470	0.458	0.445	7.45
58)		Fluorene	1.437	1.394	1.420	1.304	1.434	1.370	1.329	1.384	3.77
59)		2,3,4,6-Tetrac...	0.343	0.350	0.360	0.354	0.395	0.381	0.370	0.365	5.04
60)		Diethylphthalate	1.501	1.474	1.487	1.393	1.545	1.444	1.449	1.470	3.27
61)		4-Chlorophenyl...	0.711	0.668	0.689	0.637	0.709	0.665	0.658	0.677	4.06
62)		4-Nitroaniline	0.239	0.235	0.307	0.311	0.336	0.333	0.334	0.299	14.69
63)		Azobenzene	1.346	1.334	1.394	1.300	1.425	1.335	1.307	1.349	3.37
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.102	0.125	0.130	0.147	0.143	0.142	0.131	12.78
66)	c	n-Nitrosodiphe...	0.627	0.608	0.633	0.597	0.659	0.622	0.594	0.620	3.68
67)		4-Bromophenyl-...	0.224	0.215	0.226	0.213	0.246	0.229	0.226	0.226	4.83
68)		Hexachlorobenzene	0.278	0.268	0.272	0.260	0.290	0.275	0.272	0.274	3.31
69)		Atrazine	0.213	0.212	0.231	0.217	0.244	0.228	0.228	0.225	5.16
70)	C	Pentachlorophenol		0.105	0.131	0.139	0.162	0.153	0.159	0.142	15.21
71)		Phenanthrene	1.158	1.108	1.110	1.056	1.161	1.102	1.041	1.105	4.12
72)		Anthracene	1.129	1.093	1.137	1.072	1.188	1.133	1.083	1.119	3.58
73)		Carbazole	1.023	1.013	1.057	0.998	1.112	1.052	1.007	1.038	3.83
74)		Di-n-butylphth...	1.178	1.245	1.326	1.272	1.421	1.273	1.284	1.285	5.81
75)	C	Fluoranthene	1.300	1.287	1.307	1.223	1.344	1.268	1.238	1.281	3.25
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.512	0.669	0.653	0.690	0.663	0.529	0.619	12.54
78)		Pyrene	1.307	1.195	1.261	1.184	1.322	1.272	1.206	1.249	4.41
79)	S	Terphenyl-d14	1.178	1.073	1.146	1.089	1.164	1.120	1.039	1.116	4.57
80)		Butylbenzylpht...	0.508	0.529	0.581	0.561	0.641	0.596	0.589	0.572	7.74
81)		Benzo(a)anthra...	1.312	1.234	1.288	1.219	1.347	1.310	1.243	1.279	3.73
82)		3,3'-Dichlorob...		0.468	0.513	0.493	0.542	0.531	0.501	0.508	5.29
83)		Chrysene	1.252	1.174	1.229	1.144	1.279	1.238	1.168	1.212	4.13
84)		Bis(2-ethylhex...	0.715	0.780	0.846	0.797	0.921	0.831	0.850	0.820	7.87
85)	c	Di-n-octyl pht...		1.320	1.438	1.384	1.587	1.470	1.473	1.445	6.25

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.427	1.402	1.469	1.412	1.559	1.510	1.436	1.459	3.92
88)		Benzo(b)fluora...	1.103	1.104	1.133	1.127	1.232	1.180	1.133	1.145	4.06
89)		Benzo(k)fluora...	1.165	1.144	1.180	1.106	1.259	1.158	1.144	1.165	4.05
90)	C	Benzo(a)pyrene	1.096	1.069	1.127	1.070	1.214	1.136	1.113	1.118	4.46
91)		Dibenzo(a,h)an...	1.151	1.143	1.202	1.143	1.279	1.224	1.172	1.188	4.25
92)		Benzo(g,h,i)pe...	1.172	1.127	1.183	1.136	1.261	1.214	1.157	1.179	3.95

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 06 16:20:27 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024860.D 5 =BP024861.D 10 =BP024862.D 20 =BP024863.D 40 =BP024864.D 50 =BP024865.D 60 =BP024866.D 80 =BP0248
67.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.564	0.529	0.524	0.495	0.546	0.515	0.517	0.527	4.21
3)		Pyridine		1.151	1.183	1.265	1.226	1.370	1.367	1.315	1.268	6.84
4)		n-Nitrosodimet...			0.478	0.509	0.502	0.542	0.554	0.525	0.518	5.36
5)	S	2-Fluorophenol		1.127	1.139	1.207	1.163	1.283	1.253	1.215	1.198	4.85
6)		Aniline		1.917	1.892	2.016	1.978	2.145	2.182	2.031	2.023	5.37
7)	S	Phenol-d6		1.507	1.528	1.588	1.545	1.676	1.689	1.564	1.585	4.49
8)		2-Chlorophenol		1.336	1.290	1.346	1.314	1.453	1.422	1.348	1.358	4.29
9)		Benzaldehyde			1.038	1.071	0.873	0.985	0.869	0.646	0.914	16.98
10)	C	Phenol		1.560	1.564	1.616	1.587	1.725	1.759	1.629	1.634	4.78
11)		bis(2-Chloroet...		1.222	1.277	1.334	1.234	1.363	1.322	1.246	1.285	4.26
12)		1,3-Dichlorobe...		1.570	1.515	1.537	1.425	1.571	1.519	1.471	1.515	3.49
13)	C	1,4-Dichlorobe...		1.596	1.507	1.535	1.439	1.604	1.534	1.488	1.529	3.82
14)		1,2-Dichlorobe...		1.529	1.637	1.488	1.401	1.540	1.492	1.422	1.501	5.25
15)		Benzyl Alcohol			1.137	1.185	1.170	1.289	1.309	1.211	1.217	5.63
16)		2,2'-oxybis(1-...		1.748	1.732	1.722	1.583	1.751	1.667	1.574	1.682	4.54
17)		2-Methylphenol		1.053	1.149	1.138	1.106	1.210	1.211	1.121	1.141	4.94
18)		Hexachloroethane		0.591	0.565	0.581	0.545	0.611	0.574	0.562	0.576	3.73
19)	P	n-Nitroso-di-n...	0.984	1.101	1.105	1.107	1.043	1.141	1.113	1.029	1.078	4.93
20)		3+4-Methylphenols			1.507	1.548	1.493	1.631	1.648	1.515	1.557	4.29
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.506	0.521	0.511	0.491	0.535	0.510	0.463	0.505	4.58
23)	S	Nitrobenzene-d5		0.407	0.397	0.423	0.404	0.444	0.423	0.383	0.412	4.89
24)		Nitrobenzene		0.366	0.351	0.375	0.360	0.392	0.376	0.339	0.366	4.81
25)		Isophorone		0.704	0.678	0.724	0.694	0.764	0.726	0.704	0.713	3.91
26)	C	2-Nitrophenol		0.154	0.157	0.178	0.180	0.201	0.195	0.198	0.180	10.62
27)		2,4-Dimethylph...		0.294	0.286	0.310	0.303	0.331	0.320	0.318	0.309	5.12
28)		bis(2-Chloroet...		0.414	0.408	0.438	0.414	0.465	0.423	0.416	0.426	4.70
29)	C	2,4-Dichloroph...		0.246	0.272	0.300	0.292	0.327	0.313	0.323	0.296	9.81
30)		1,2,4-Trichlor...		0.335	0.319	0.335	0.317	0.352	0.330	0.351	0.334	4.16
31)		Naphthalene		1.071	1.022	1.044	0.989	1.079	1.035	0.935	1.025	4.86
32)		Benzoic acid			0.159	0.181	0.204	0.230	0.235	0.243	0.209	16.01
33)		4-Chloroaniline		0.397	0.401	0.435	0.426	0.471	0.463	0.414	0.429	6.72
34)	C	Hexachlorobuta...		0.203	0.199	0.208	0.194	0.218	0.198	0.189	0.201	4.76
35)		Caprolactam			0.098	0.109	0.110	0.118	0.116	0.104	0.109	6.91
36)	C	4-Chloro-3-met...		0.312	0.322	0.351	0.341	0.374	0.363	0.329	0.342	6.58
37)		2-Methylnaphth...		0.659	0.638	0.659	0.633	0.696	0.664	0.602	0.650	4.54
38)		1-Methylnaphth...		0.720	0.680	0.718	0.671	0.741	0.693	0.643	0.695	4.86

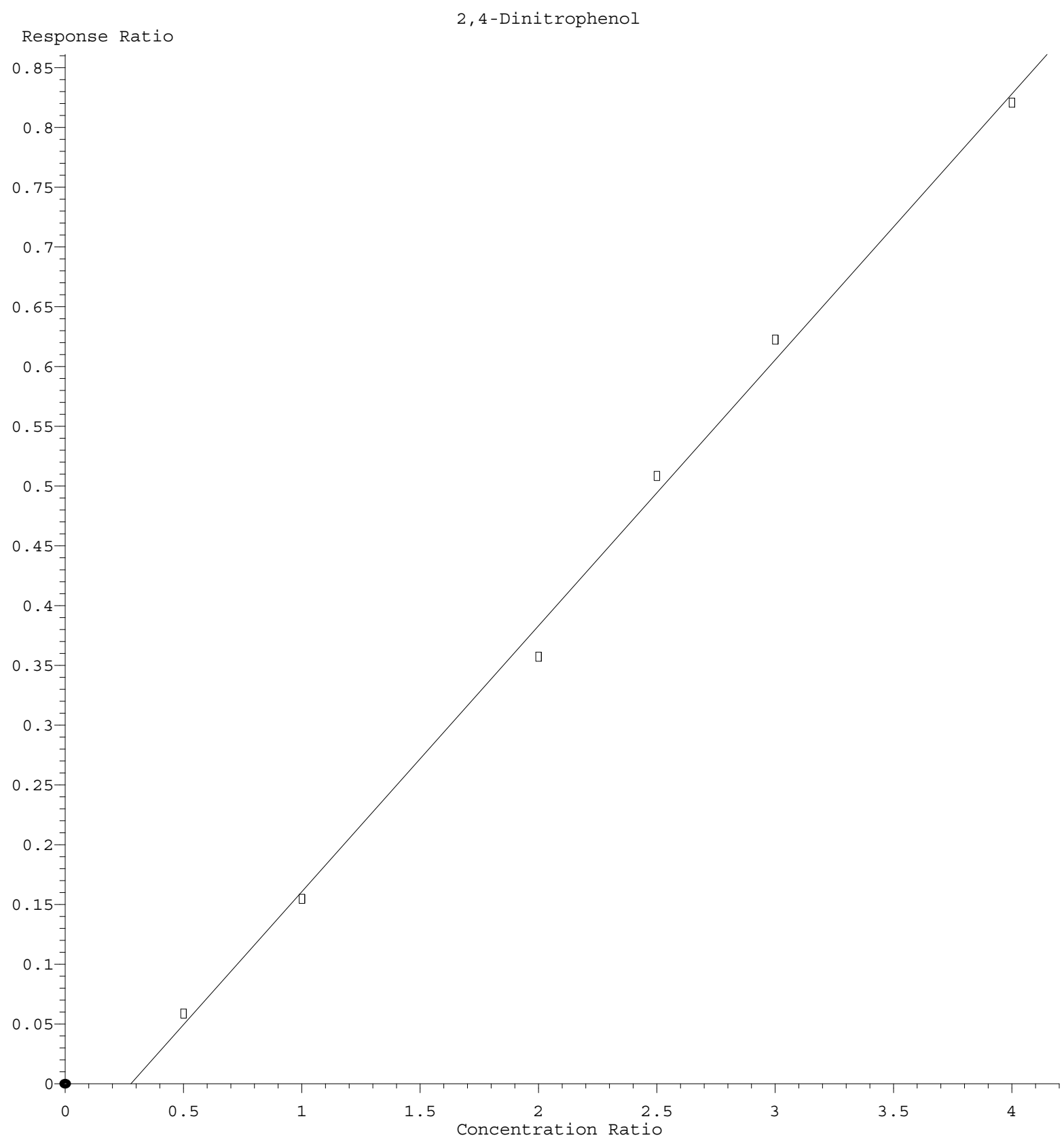
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.568	0.561	0.568	0.538	0.601	0.574	0.562	0.568	3.31
41)	P	Hexachlorocycl...		0.259	0.315	0.337	0.404	0.369	0.394	0.346	15.74
42)	S	2,4,6-Tribromo...	0.256	0.264	0.279	0.267	0.298	0.286	0.285	0.277	5.26
43)	C	2,4,6-Trichlor...	0.342	0.352	0.386	0.375	0.411	0.404	0.396	0.381	6.86
44)		2,4,5-Trichlor...	0.349	0.379	0.414	0.405	0.448	0.436	0.426	0.408	8.44
45)	S	2-Fluorobiphenyl	1.542	1.507	1.517	1.390	1.563	1.464	1.409	1.485	4.44
46)		1,1'-Biphenyl	1.477	1.456	1.485	1.386	1.509	1.458	1.403	1.453	3.05
47)		2-Chloronaphth...	1.123	1.104	1.135	1.069	1.171	1.136	1.081	1.117	3.16
48)		2-Nitroaniline	0.289	0.324	0.344	0.346	0.371	0.374	0.355	0.343	8.59
49)		Acenaphthylene	1.880	1.851	1.892	1.768	1.939	1.904	1.805	1.863	3.19
50)		Dimethylphthalate	1.515	1.450	1.501	1.400	1.550	1.473	1.438	1.475	3.45
51)		2,6-Dinitrotol...	0.299	0.301	0.326	0.312	0.339	0.333	0.317	0.318	4.86
52)	C	Acenaphthene	1.106	1.064	1.090	1.020	1.087	1.069	1.036	1.067	2.86
53)		3-Nitroaniline	0.263	0.292	0.337	0.338	0.367	0.364	0.349	0.330	11.74
54)	P	2,4-Dinitrophenol		0.117	0.155	0.179	0.203	0.208	0.205	0.178	20.23
55)		Dibenzofuran	1.815	1.721	1.756	1.627	1.757	1.702	1.615	1.713	4.22
56)	P	4-Nitrophenol		0.142	0.213	0.248	0.276	0.281	0.275	0.239	22.62
57)		2,4-Dinitrotol...	0.390	0.416	0.457	0.437	0.487	0.470	0.458	0.445	7.45
58)		Fluorene	1.437	1.394	1.420	1.304	1.434	1.370	1.329	1.384	3.77
59)		2,3,4,6-Tetrac...	0.343	0.350	0.360	0.354	0.395	0.381	0.370	0.365	5.04
60)		Diethylphthalate	1.501	1.474	1.487	1.393	1.545	1.444	1.449	1.470	3.27
61)		4-Chlorophenyl...	0.711	0.668	0.689	0.637	0.709	0.665	0.658	0.677	4.06
62)		4-Nitroaniline	0.239	0.235	0.307	0.311	0.336	0.333	0.334	0.299	14.69
63)		Azobenzene	1.346	1.334	1.394	1.300	1.425	1.335	1.307	1.349	3.37
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.102	0.125	0.130	0.147	0.143	0.142	0.131	12.78
66)	c	n-Nitrosodiphe...	0.627	0.608	0.633	0.597	0.659	0.622	0.594	0.620	3.68
67)		4-Bromophenyl-...	0.224	0.215	0.226	0.213	0.246	0.229	0.226	0.226	4.83
68)		Hexachlorobenzene	0.278	0.268	0.272	0.260	0.290	0.275	0.272	0.274	3.31
69)		Atrazine	0.213	0.212	0.231	0.217	0.244	0.228	0.228	0.225	5.16
70)	C	Pentachlorophenol		0.105	0.131	0.139	0.162	0.153	0.159	0.142	15.21
71)		Phenanthrene	1.158	1.108	1.110	1.056	1.161	1.102	1.041	1.105	4.12
72)		Anthracene	1.129	1.093	1.137	1.072	1.188	1.133	1.083	1.119	3.58
73)		Carbazole	1.023	1.013	1.057	0.998	1.112	1.052	1.007	1.038	3.83
74)		Di-n-butylphth...	1.178	1.245	1.326	1.272	1.421	1.273	1.284	1.285	5.81
75)	C	Fluoranthene	1.300	1.287	1.307	1.223	1.344	1.268	1.238	1.281	3.25
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.512	0.669	0.653	0.690	0.663	0.529	0.619	12.54
78)		Pyrene	1.307	1.195	1.261	1.184	1.322	1.272	1.206	1.249	4.41
79)	S	Terphenyl-d14	1.178	1.073	1.146	1.089	1.164	1.120	1.039	1.116	4.57
80)		Butylbenzylpht...	0.508	0.529	0.581	0.561	0.641	0.596	0.589	0.572	7.74
81)		Benzo(a)anthra...	1.312	1.234	1.288	1.219	1.347	1.310	1.243	1.279	3.73
82)		3,3'-Dichlorob...		0.468	0.513	0.493	0.542	0.531	0.501	0.508	5.29
83)		Chrysene	1.252	1.174	1.229	1.144	1.279	1.238	1.168	1.212	4.13
84)		Bis(2-ethylhex...	0.715	0.780	0.846	0.797	0.921	0.831	0.850	0.820	7.87
85)	c	Di-n-octyl pht...		1.320	1.438	1.384	1.587	1.470	1.473	1.445	6.25

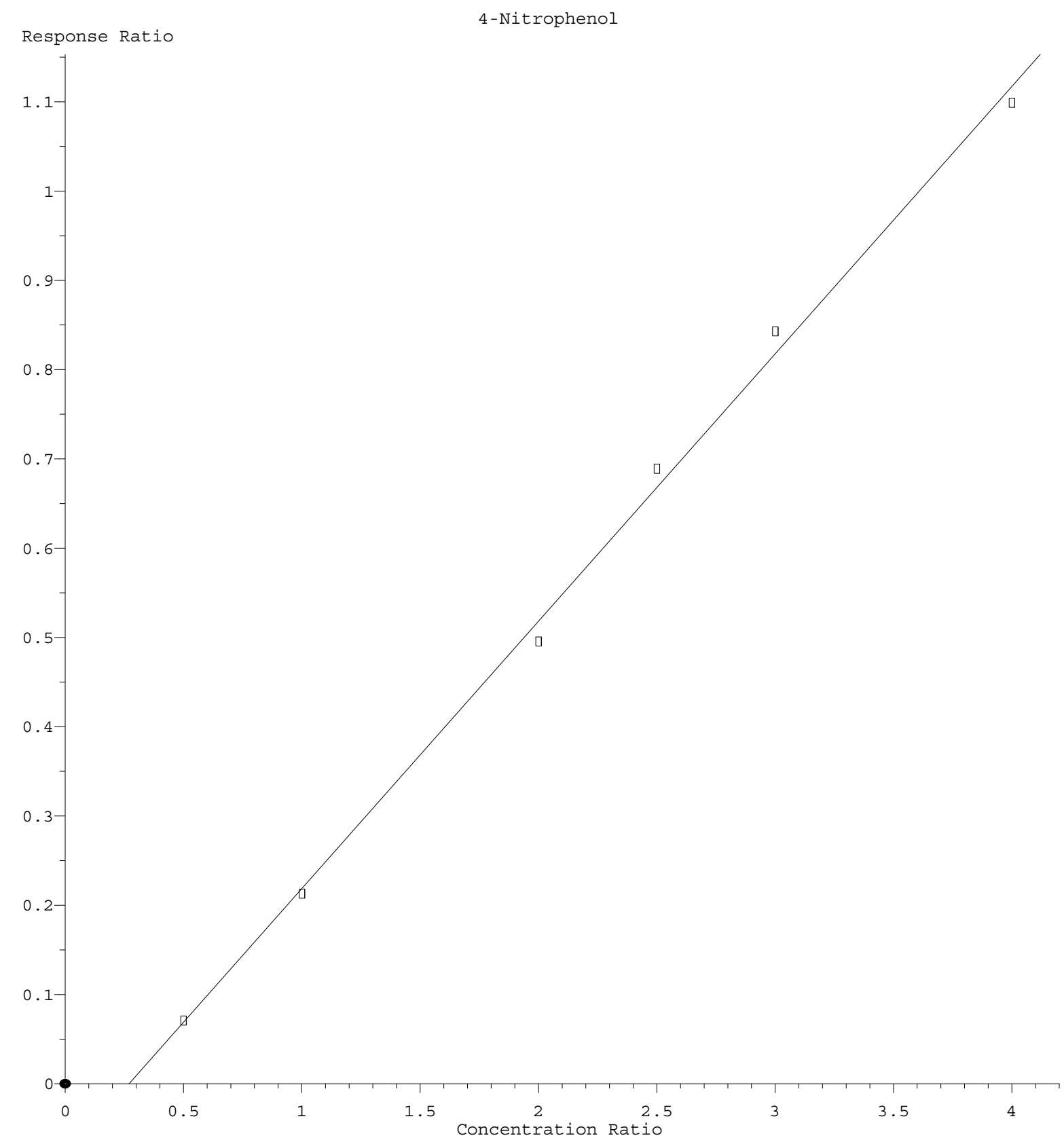
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.427	1.402	1.469	1.412	1.559	1.510	1.436	1.459	3.92
88)		Benzo(b)fluora...	1.103	1.104	1.133	1.127	1.232	1.180	1.133	1.145	4.06
89)		Benzo(k)fluora...	1.165	1.144	1.180	1.106	1.259	1.158	1.144	1.165	4.05
90)	C	Benzo(a)pyrene	1.096	1.069	1.127	1.070	1.214	1.136	1.113	1.118	4.46
91)		Dibenzo(a,h)an...	1.151	1.143	1.202	1.143	1.279	1.224	1.172	1.188	4.25
92)		Benzo(g,h,i)pe...	1.172	1.127	1.183	1.136	1.261	1.214	1.157	1.179	3.95

(#) = Out of Range



Response = 2.226e-001 * Amt - 6.192e-002
Coef of Det (r^2) = 0.996780 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP060625.M
Calibration Table Last Updated: Fri Jun 06 16:20:27 2025



Response = 2.997e-001 * Amt - 8.106e-002
Coef of Det (r^2) = 0.997389 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP060625.M
Calibration Table Last Updated: Fri Jun 06 16:20:27 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024860.D
Acq On : 06 Jun 2025 10:30
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Jun 06 15:57:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.608	152	221050	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	909156	20.000	ng	0.00
39) Acenaphthene-d10	14.248	164	579004	20.000	ng	0.00
64) Phenanthrene-d10	17.060	188	1181298	20.000	ng	0.00
76) Chrysene-d12	21.477	240	1353951	20.000	ng	0.00
86) Perylene-d12	24.724	264	1640185	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...	8.413	70	27187	2.282	ng	98

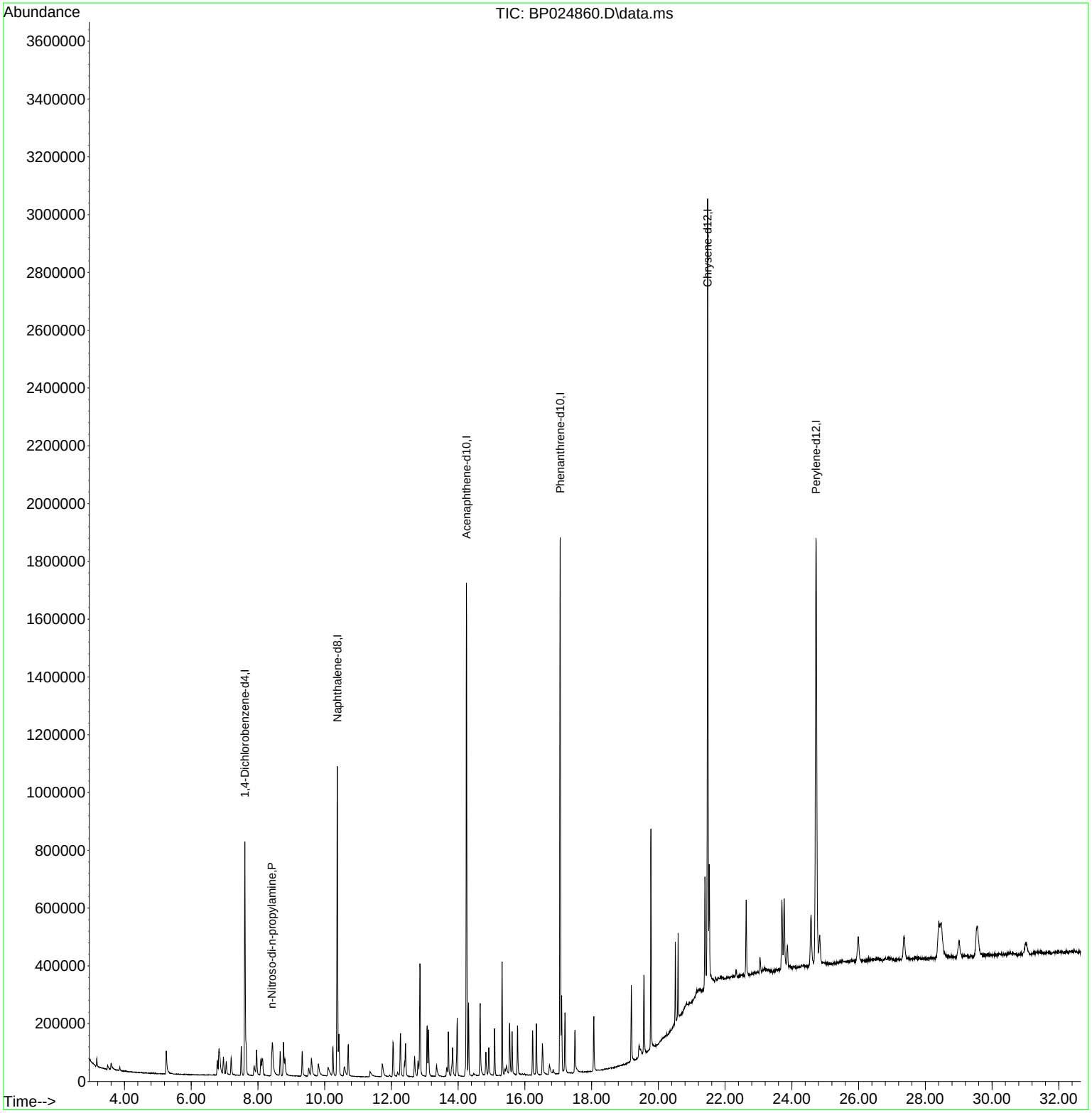
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024860.D
Acq On : 06 Jun 2025 10:30
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Jun 06 15:57:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024861.D
Acq On : 06 Jun 2025 11:11
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Quant Time: Jun 06 15:58:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.608	152	200188	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	863187	20.000	ng	0.00
39) Acenaphthene-d10	14.248	164	567242	20.000	ng	0.00
64) Phenanthrene-d10	17.048	188	1134887	20.000	ng	-0.01
76) Chrysene-d12	21.477	240	1194011	20.000	ng	0.00
86) Perylene-d12	24.724	264	1376894	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.249	112	112787	9.404	ng	0.00
7) Phenol-d6	6.831	99	150891	9.509	ng	0.02
23) Nitrobenzene-d5	8.760	82	175740	9.893	ng	0.00
42) 2,4,6-Tribromophenol	15.778	330	72727	9.274	ng	0.00
45) 2-Fluorobiphenyl	12.854	172	437483	10.390	ng	0.00
79) Terphenyl-d14	19.778	244	703502	10.560	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.167	88	28220	5.348	ng	99
3) Pyridine	3.590	79	57580	4.537	ng	90
6) Aniline	6.961	93	95932	4.737	ng	99
8) 2-Chlorophenol	7.196	128	66850	4.917	ng	98
10) Phenol	6.855	94	78090	4.774	ng	96
11) bis(2-Chloroethyl)ether	7.049	93	61139	4.752	ng	97
12) 1,3-Dichlorobenzene	7.502	146	78560	5.180	ng	99
13) 1,4-Dichlorobenzene	7.643	146	79892	5.221	ng	99
14) 1,2-Dichlorobenzene	7.960	146	76524	5.092	ng	96
16) 2,2'-oxybis(1-Chloropr...	8.137	45	87492	5.196	ng	93
17) 2-Methylphenol	8.084	107	52716	4.615	ng	98
18) Hexachloroethane	8.672	117	29571	5.132	ng	94
19) n-Nitroso-di-n-propyla...	8.413	70	55096	5.108	ng	97
22) Acetophenone	8.437	105	109271	5.010	ng	96
24) Nitrobenzene	8.808	77	79033	5.008	ng	96
25) Isophorone	9.325	82	151837	4.932	ng	99
26) 2-Nitrophenol	9.519	139	33214	4.266	ng	94
27) 2,4-Dimethylphenol	9.596	122	63419	4.759	ng	94
28) bis(2-Chloroethoxy)met...	9.807	93	89295	4.862	ng	96
29) 2,4-Dichlorophenol	10.090	162	53164	4.158	ng	95
30) 1,2,4-Trichlorobenzene	10.249	180	72373	5.018	ng	99
31) Naphthalene	10.425	128	231024	5.223	ng	98
33) 4-Chloroaniline	10.572	127	85657	4.622	ng	99
34) Hexachlorobutadiene	10.707	225	43845	5.044	ng	98
36) 4-Chloro-3-methylphenol	11.719	107	67386	4.569	ng	99
37) 2-Methylnaphthalene	12.049	142	142250	5.070	ng	98
38) 1-Methylnaphthalene	12.266	142	155333	5.178	ng	97
40) 1,2,4,5-Tetrachloroben...	12.425	216	80613	5.008	ng	99
43) 2,4,6-Trichlorophenol	12.690	196	48501	4.487	ng	97
44) 2,4,5-Trichlorophenol	12.796	196	49421	4.269	ng	97
46) 1,1'-Biphenyl	13.072	154	209483	5.082	ng	96
47) 2-Chloronaphthalene	13.113	162	159251	5.026	ng	99
48) 2-Nitroaniline	13.348	65	40981	4.207	ng	99
49) Acenaphthylene	13.972	152	266639	5.047	ng	99
50) Dimethylphthalate	13.713	163	214893	5.136	ng	99
51) 2,6-Dinitrotoluene	13.831	165	42335	4.693	ng	93

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024861.D
Acq On : 06 Jun 2025 11:11
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: Jun 06 15:58:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Acenaphthene	14.313	154	156832	5.181	ng		96
53) 3-Nitroaniline	14.190	138	37288	3.983	ng	#	90
55) Dibenzofuran	14.660	168	257371	5.297	ng		100
57) 2,4-Dinitrotoluene	14.648	165	55352	4.387	ng	#	87
58) Fluorene	15.319	166	203802	5.192	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.907	232	48686m	4.699	ng		
60) Diethylphthalate	15.090	149	212883	5.105	ng		98
61) 4-Chlorophenyl-phenyle...	15.319	204	100846	5.254	ng		97
62) 4-Nitroaniline	15.378	138	33952m	3.998	ng		
63) Azobenzene	15.619	77	190856	4.990	ng		99
66) n-Nitrosodiphenylamine	15.537	169	177845	5.056	ng		100
67) 4-Bromophenyl-phenylether	16.231	248	63678	4.973	ng		99
68) Hexachlorobenzene	16.342	284	78966	5.087	ng		96
69) Atrazine	16.519	200	60321	4.730	ng		98
71) Phenanthrene	17.095	178	328431	5.237	ng		99
72) Anthracene	17.195	178	320305	5.043	ng		99
73) Carbazole	17.489	167	290344	4.932	ng		100
74) Di-n-butylphthalate	18.060	149	334086	4.580	ng		99
75) Fluoranthene	19.183	202	368810	5.074	ng		99
78) Pyrene	19.560	202	389995	5.228	ng		99
80) Butylbenzylphthalate	20.513	149	151685	4.439	ng		99
81) Benzo(a)anthracene	21.460	228	391774	5.130	ng		99
83) Chrysene	21.525	228	373726	5.165	ng		98
84) Bis(2-ethylhexyl)phtha...	21.389	149	213559	4.362	ng		98
87) Indeno(1,2,3-cd)pyrene	28.418	276	491160	4.889	ng	#	94
88) Benzo(b)fluoranthene	23.707	252	379596	4.817	ng		98
89) Benzo(k)fluoranthene	23.777	252	400877	4.998	ng		99
90) Benzo(a)pyrene	24.571	252	377184	4.901	ng		100
91) Dibenzo(a,h)anthracene	28.471	278	396286	4.846	ng		99
92) Benzo(g,h,i)perylene	29.559	276	403533	4.974	ng		98

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

ICAL Form

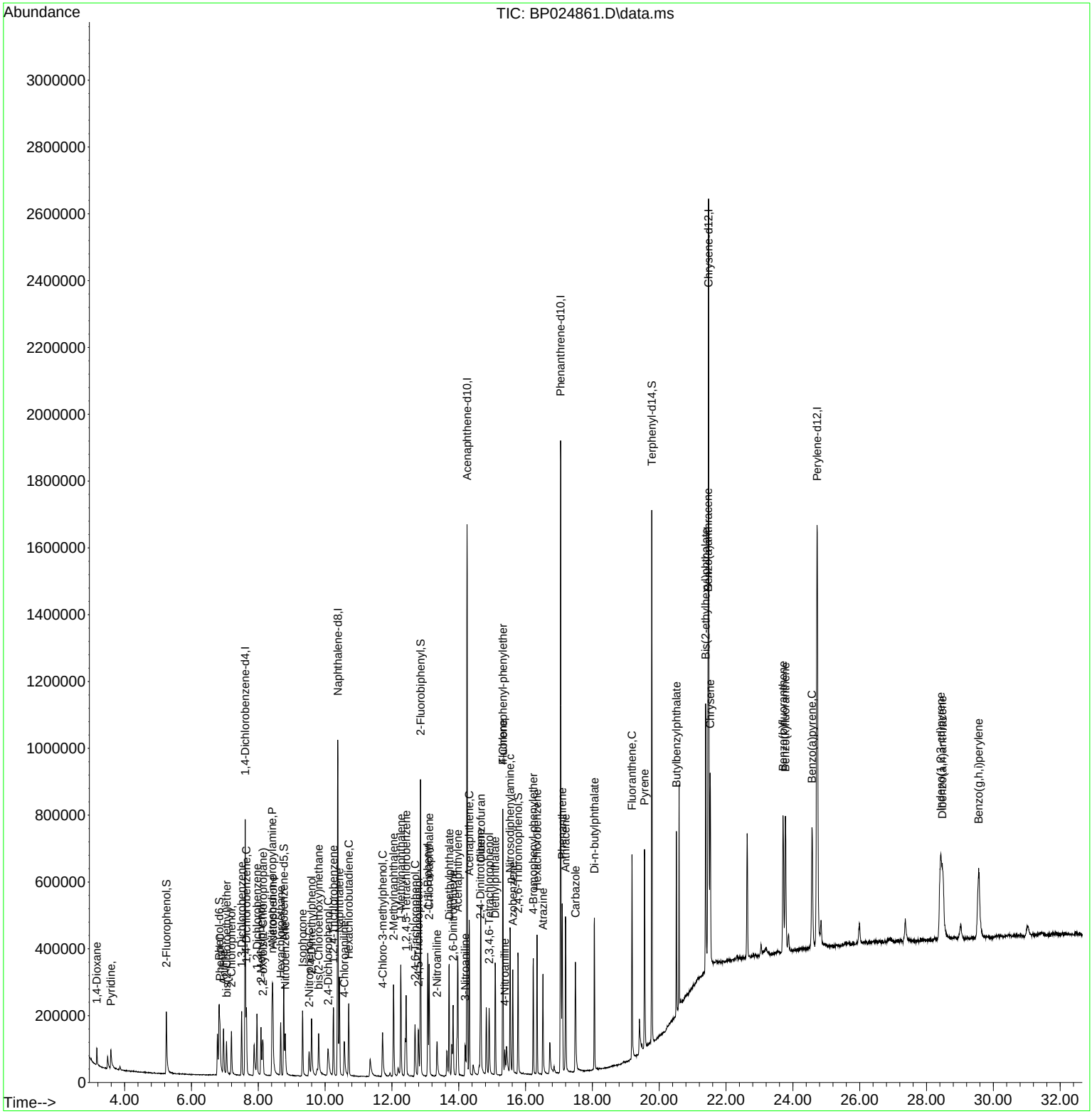
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024861.D
Acq On : 06 Jun 2025 11:11
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 15:58:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024862.D
Acq On : 06 Jun 2025 11:52
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Quant Time: Jun 06 15:59:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.613	152	222073	20.000	ng		0.00
21) Naphthalene-d8	10.378	136	929717	20.000	ng		0.00
39) Acenaphthene-d10	14.248	164	594373	20.000	ng		0.00
64) Phenanthrene-d10	17.048	188	1185891	20.000	ng		-0.01
76) Chrysene-d12	21.472	240	1377321	20.000	ng		-0.01
86) Perylene-d12	24.718	264	1582534	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.249	112	253023	19.018	ng		0.00
7) Phenol-d6	6.819	99	339256	19.273	ng		0.00
23) Nitrobenzene-d5	8.760	82	369077	19.290	ng		0.00
42) 2,4,6-Tribromophenol	15.772	330	156861	19.089	ng		-0.01
45) 2-Fluorobiphenyl	12.854	172	896004	20.308	ng		0.00
79) Terphenyl-d14	19.778	244	1478395	19.238	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.173	88	58704	10.028	ng		98
3) Pyridine	3.578	79	131346	9.330	ng		98
4) n-Nitrosodimethylamine	3.490	42	53104	9.227	ng	#	98
6) Aniline	6.961	93	210089	9.352	ng		99
8) 2-Chlorophenol	7.196	128	143265	9.499	ng		98
9) Benzaldehyde	6.772	77	115279m	11.330	ng		
10) Phenol	6.849	94	173645	9.569	ng		98
11) bis(2-Chloroethyl)ether	7.049	93	141777	9.934	ng		99
12) 1,3-Dichlorobenzene	7.502	146	168166	9.995	ng		99
13) 1,4-Dichlorobenzene	7.643	146	167333	9.857	ng		99
14) 1,2-Dichlorobenzene	7.960	146	181774	10.904	ng		98
15) Benzyl Alcohol	7.866	79	126194	9.341	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.131	45	192365	10.298	ng		96
17) 2-Methylphenol	8.078	107	127589	10.069	ng		98
18) Hexachloroethane	8.672	117	62735	9.815	ng		95
19) n-Nitroso-di-n-propyla...	8.413	70	122711	10.254	ng		97
20) 3+4-Methylphenols	8.408	107	167301	9.677	ng		94
22) Acetophenone	8.431	105	242331	10.317	ng	#	98
24) Nitrobenzene	8.802	77	163008	9.590	ng		99
25) Isophorone	9.325	82	315027	9.500	ng		100
26) 2-Nitrophenol	9.513	139	72892	8.692	ng		97
27) 2,4-Dimethylphenol	9.590	122	132781	9.251	ng		97
28) bis(2-Chloroethoxy)met...	9.802	93	189690	9.590	ng		98
29) 2,4-Dichlorophenol	10.072	162	126522	9.187	ng		99
30) 1,2,4-Trichlorobenzene	10.243	180	148252	9.544	ng		97
31) Naphthalene	10.425	128	474962	9.969	ng		99
32) Benzoic acid	9.731	122	74032m	7.736	ng		
33) 4-Chloroaniline	10.566	127	186400	9.338	ng		98
34) Hexachlorobutadiene	10.707	225	92498	9.880	ng		97
35) Caprolactam	11.337	113	45366	8.949	ng		98
36) 4-Chloro-3-methylphenol	11.707	107	149607	9.418	ng		97
37) 2-Methylnaphthalene	12.043	142	296478	9.810	ng		98
38) 1-Methylnaphthalene	12.266	142	316179	9.786	ng		99
40) 1,2,4,5-Tetrachloroben...	12.419	216	166771	9.888	ng		99
41) Hexachlorocyclopentadiene	12.396	237	76916	7.477	ng		97
43) 2,4,6-Trichlorophenol	12.684	196	104746	9.248	ng		97

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024862.D
Acq On : 06 Jun 2025 11:52
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Quant Time: Jun 06 15:59:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.778	196	112735	9.294	ng	99
46) 1,1'-Biphenyl	13.072	154	432819	10.020	ng	99
47) 2-Chloronaphthalene	13.113	162	328060	9.882	ng	98
48) 2-Nitroaniline	13.337	65	96210	9.426	ng	100
49) Acenaphthylene	13.966	152	550191	9.939	ng	98
50) Dimethylphthalate	13.707	163	430821	9.826	ng	100
51) 2,6-Dinitrotoluene	13.831	165	89432	9.461	ng	93
52) Acenaphthene	14.313	154	316133	9.967	ng	98
53) 3-Nitroaniline	14.184	138	86690	8.838	ng	97
54) 2,4-Dinitrophenol	14.413	184	34890	10.838	ng	97
55) Dibenzofuran	14.660	168	511434	10.045	ng	100
56) 4-Nitrophenol	14.572	139	42087	10.135	ng	92
57) 2,4-Dinitrotoluene	14.643	165	123499	9.340	ng	97
58) Fluorene	15.319	166	414235	10.071	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.907	232	103935	9.573	ng	99
60) Diethylphthalate	15.090	149	437955	10.022	ng	98
61) 4-Chlorophenyl-phenyle...	15.319	204	198649	9.878	ng	98
62) 4-Nitroaniline	15.372	138	69780	7.841	ng	95
63) Azobenzene	15.619	77	396356	9.890	ng	99
65) 4,6-Dinitro-2-methylph...	15.425	198	60252	7.732	ng	92
66) n-Nitrosodiphenylamine	15.537	169	360674	9.812	ng	98
67) 4-Bromophenyl-phenylether	16.231	248	127516	9.530	ng	98
68) Hexachlorobenzene	16.342	284	158870	9.794	ng	97
69) Atrazine	16.519	200	125777	9.439	ng	99
70) Pentachlorophenol	16.719	266	62407	7.434	ng	98
71) Phenanthrene	17.089	178	657004	10.025	ng	99
72) Anthracene	17.195	178	648264	9.767	ng	99
73) Carbazole	17.484	167	600475	9.761	ng	100
74) Di-n-butylphthalate	18.060	149	738469	9.688	ng	99
75) Fluoranthene	19.183	202	763158	10.047	ng	98
77) Benzidine	19.401	184	352835	8.271	ng	99
78) Pyrene	19.554	202	823026	9.565	ng	99
80) Butylbenzylphthalate	20.507	149	364314	9.243	ng	97
81) Benzo(a)anthracene	21.448	228	850043	9.650	ng	99
82) 3,3'-Dichlorobenzidine	21.377	252	322154	9.212	ng	99
83) Chrysene	21.519	228	808582	9.687	ng	100
84) Bis(2-ethylhexyl)phtha...	21.389	149	536981	9.509	ng	100
85) Di-n-octyl phthalate	22.619	149	909174	9.134	ng	99
87) Indeno(1,2,3-cd)pyrene	28.395	276	1109298	9.607	ng	99
88) Benzo(b)fluoranthene	23.689	252	873515m	9.645	ng	
89) Benzo(k)fluoranthene	23.760	252	905265	9.819	ng	99
90) Benzo(a)pyrene	24.566	252	845698	9.562	ng	99
91) Dibenzo(a,h)anthracene	28.459	278	904527	9.624	ng	99
92) Benzo(g,h,i)perylene	29.542	276	891492	9.560	ng	97

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

ICAL Form

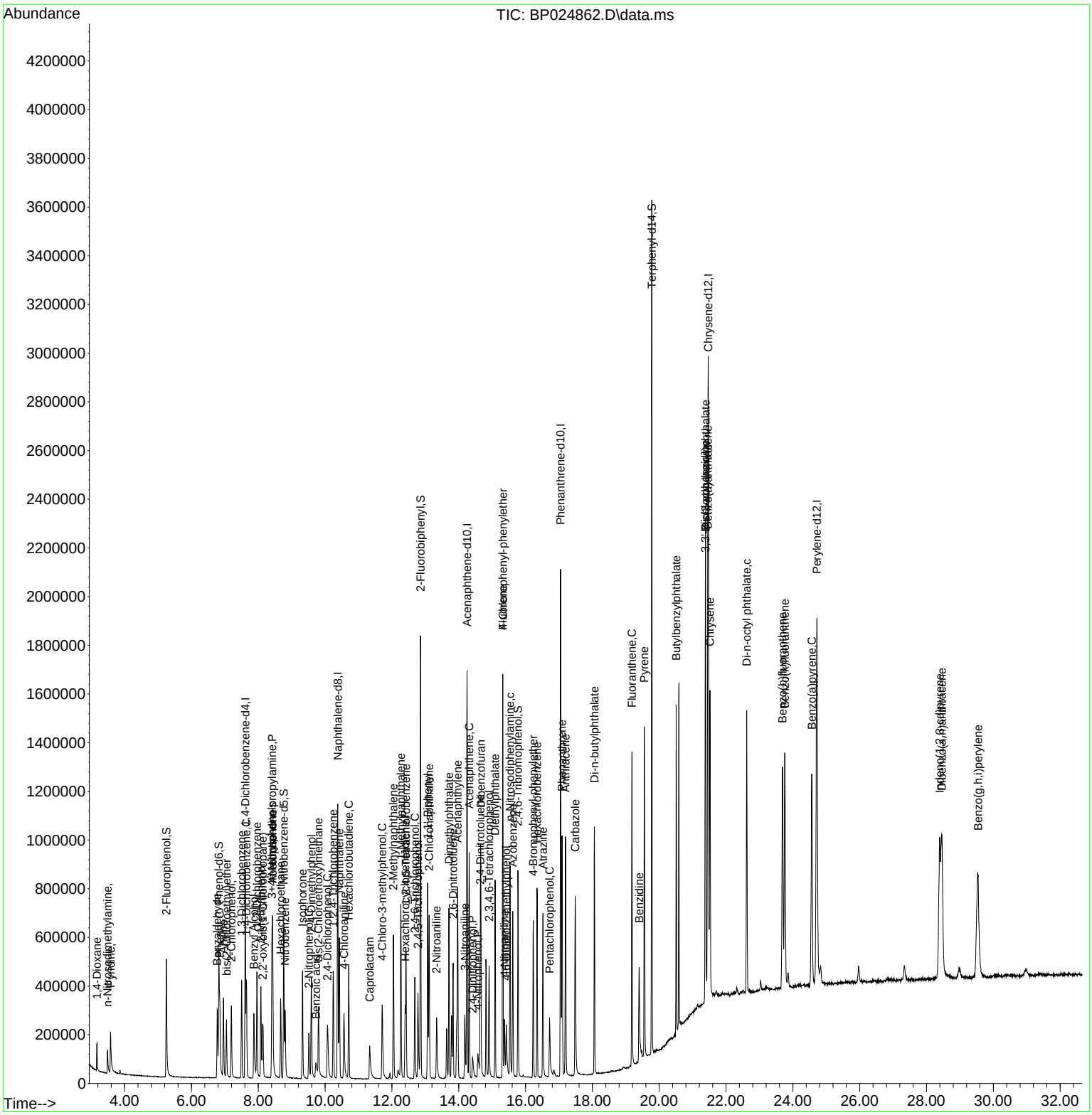
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024862.D
Acq On : 06 Jun 2025 11:52
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:59:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024863.D
Acq On : 06 Jun 2025 12:33
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Quant Time: Jun 06 16:00:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.608	152	222586	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	933995	20.000	ng	0.00
39) Acenaphthene-d10	14.248	164	604798	20.000	ng	0.00
64) Phenanthrene-d10	17.048	188	1187838	20.000	ng	-0.01
76) Chrysene-d12	21.483	240	1296607	20.000	ng	0.00
86) Perylene-d12	24.730	264	1539603	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	537271	40.291	ng	0.00
7) Phenol-d6	6.814	99	706853	40.063	ng	0.00
23) Nitrobenzene-d5	8.760	82	789724	41.087	ng	0.00
42) 2,4,6-Tribromophenol	15.766	330	337588	40.373	ng	-0.02
45) 2-Fluorobiphenyl	12.854	172	1834625	40.864	ng	0.00
79) Terphenyl-d14	19.783	244	2972885	41.093	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.167	88	116694	19.888	ng	99
3) Pyridine	3.572	79	281621	19.958	ng	98
4) n-Nitrosodimethylamine	3.484	42	113202	19.623	ng	99
6) Aniline	6.955	93	448798	19.932	ng	98
8) 2-Chlorophenol	7.190	128	299518	19.813	ng	99
9) Benzaldehyde	6.772	77	238300m	23.366	ng	
10) Phenol	6.843	94	359664	19.774	ng	98
11) bis(2-Chloroethyl)ether	7.049	93	296876	20.752	ng	99
12) 1,3-Dichlorobenzene	7.502	146	342054	20.283	ng	99
13) 1,4-Dichlorobenzene	7.643	146	341710	20.082	ng	99
14) 1,2-Dichlorobenzene	7.960	146	331251	19.825	ng	99
15) Benzyl Alcohol	7.866	79	263723	19.476	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.125	45	383219	20.467	ng	98
17) 2-Methylphenol	8.072	107	253261	19.940	ng	96
18) Hexachloroethane	8.666	117	129276	20.180	ng	96
19) n-Nitroso-di-n-propyla...	8.408	70	246328	20.537	ng	99
20) 3+4-Methylphenols	8.402	107	344513	19.881	ng	97
22) Acetophenone	8.425	105	476927	20.211	ng	98
24) Nitrobenzene	8.802	77	350404	20.521	ng	98
25) Isophorone	9.325	82	676527	20.309	ng	100
26) 2-Nitrophenol	9.513	139	166277	19.736	ng	99
27) 2,4-Dimethylphenol	9.584	122	289730	20.094	ng	99
28) bis(2-Chloroethoxy)met...	9.802	93	409390	20.603	ng	99
29) 2,4-Dichlorophenol	10.060	162	280050	20.242	ng	100
30) 1,2,4-Trichlorobenzene	10.243	180	313253	20.074	ng	99
31) Naphthalene	10.431	128	975495	20.381	ng	100
32) Benzoic acid	9.725	122	168675	17.546	ng	97
33) 4-Chloroaniline	10.554	127	406109	20.252	ng	99
34) Hexachlorobutadiene	10.707	225	194310	20.660	ng	99
35) Caprolactam	11.337	113	101727	19.975	ng	98
36) 4-Chloro-3-methylphenol	11.701	107	328233	20.569	ng	98
37) 2-Methylnaphthalene	12.043	142	615339	20.267	ng	99
38) 1-Methylnaphthalene	12.266	142	670212	20.648	ng	97
40) 1,2,4,5-Tetrachloroben...	12.419	216	343533	20.018	ng	100
41) Hexachlorocyclopentadiene	12.390	237	190407	18.191	ng	100
43) 2,4,6-Trichlorophenol	12.684	196	233556	20.265	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024863.D
Acq On : 06 Jun 2025 12:33
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Quant Time: Jun 06 16:00:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.766	196	250294	20.279	ng		99
46) 1,1'-Biphenyl	13.066	154	898074	20.433	ng		99
47) 2-Chloronaphthalene	13.113	162	686558	20.324	ng		100
48) 2-Nitroaniline	13.337	65	208318	20.059	ng		97
49) Acenaphthylene	13.966	152	1144019	20.311	ng		99
50) Dimethylphthalate	13.707	163	908091	20.354	ng		100
51) 2,6-Dinitrotoluene	13.831	165	197073	20.490	ng		98
52) Acenaphthene	14.313	154	658935	20.416	ng		99
53) 3-Nitroaniline	14.172	138	204033	20.442	ng		97
54) 2,4-Dinitrophenol	14.401	184	93544	19.461	ng		97
55) Dibenzofuran	14.654	168	1061912	20.497	ng		99
56) 4-Nitrophenol	14.548	139	128784	19.619	ng		98
57) 2,4-Dinitrotoluene	14.637	165	276443	20.547	ng		99
58) Fluorene	15.319	166	858671	20.517	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.901	232	217510	19.689	ng		99
60) Diethylphthalate	15.090	149	899294	20.225	ng		98
61) 4-Chlorophenyl-phenyle...	15.307	204	416662	20.361	ng		99
62) 4-Nitroaniline	15.360	138	185839	20.523	ng		98
63) Azobenzene	15.607	77	843121	20.675	ng		99
65) 4,6-Dinitro-2-methylph...	15.425	198	148616	19.041	ng		100
66) n-Nitrosodiphenylamine	15.531	169	751407	20.409	ng		99
67) 4-Bromophenyl-phenylether	16.225	248	268797	20.055	ng		99
68) Hexachlorobenzene	16.342	284	323008	19.880	ng		99
69) Atrazine	16.513	200	274257	20.548	ng		99
70) Pentachlorophenol	16.713	266	155614	18.505	ng		98
71) Phenanthrene	17.095	178	1318071	20.080	ng		100
72) Anthracene	17.184	178	1350106	20.308	ng		100
73) Carbazole	17.478	167	1256103	20.385	ng		100
74) Di-n-butylphthalate	18.066	149	1575537	20.637	ng		99
75) Fluoranthene	19.183	202	1552399	20.404	ng		100
77) Benzidine	19.395	184	867418	21.600	ng		99
78) Pyrene	19.560	202	1634896	20.183	ng		99
80) Butylbenzylphthalate	20.513	149	753875	20.318	ng		99
81) Benzo(a)anthracene	21.466	228	1669395	20.131	ng		99
82) 3,3'-Dichlorobenzidine	21.395	252	664556	20.185	ng		100
83) Chrysene	21.530	228	1593419	20.278	ng		100
84) Bis(2-ethylhexyl)phtha...	21.401	149	1097129	20.638	ng		99
85) Di-n-octyl phthalate	22.630	149	1865014	19.903	ng		99
87) Indeno(1,2,3-cd)pyrene	28.401	276	2261110	20.129	ng	#	92
88) Benzo(b)fluoranthene	23.695	252	1743865	19.792	ng		98
89) Benzo(k)fluoranthene	23.760	252	1817500	20.264	ng		99
90) Benzo(a)pyrene	24.566	252	1735236	20.166	ng		99
91) Dibenzo(a,h)anthracene	28.459	278	1850432	20.237	ng		99
92) Benzo(g,h,i)perylene	29.530	276	1820845	20.071	ng		97

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

ICAL Form

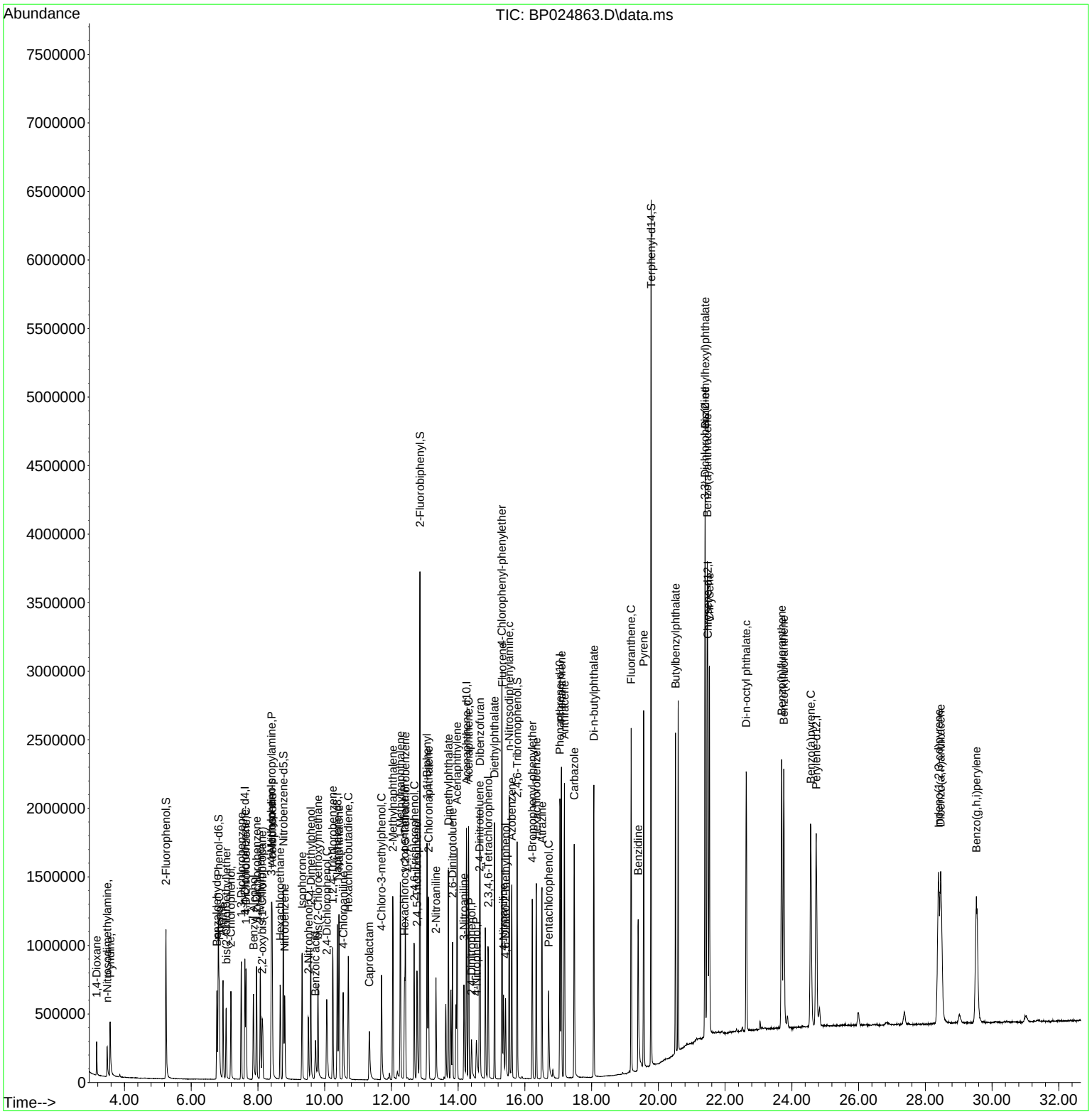
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024863.D
Acq On : 06 Jun 2025 12:33
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 16:00:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024864.D
Acq On : 06 Jun 2025 13:14
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Jun 06 16:02:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.613	152	251451	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	1050030	20.000	ng	0.00
39) Acenaphthene-d10	14.248	164	679122	20.000	ng	0.00
64) Phenanthrene-d10	17.060	188	1306481	20.000	ng	0.00
76) Chrysene-d12	21.483	240	1397384	20.000	ng	0.00
86) Perylene-d12	24.718	264	1643252	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	1170028	77.670	ng	0.00
7) Phenol-d6	6.814	99	1553699	77.952	ng	0.00
23) Nitrobenzene-d5	8.760	82	1695972	78.486	ng	0.00
42) 2,4,6-Tribromophenol	15.784	330	726339	77.359	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	3776115	74.904	ng	0.00
79) Terphenyl-d14	19.795	244	6089552	78.103	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.167	88	249102	37.581	ng	100
3) Pyridine	3.567	79	616351	38.665	ng	100
4) n-Nitrosodimethylamine	3.478	42	252432	38.735	ng	100
6) Aniline	6.955	93	994688	39.106	ng	100
8) 2-Chlorophenol	7.190	128	660632	38.685	ng	100
9) Benzaldehyde	6.772	77	439137	38.116	ng	100
10) Phenol	6.843	94	798315	38.853	ng	100
11) bis(2-Chloroethyl)ether	7.049	93	620674	38.406	ng	100
12) 1,3-Dichlorobenzene	7.502	146	716511	37.610	ng	100
13) 1,4-Dichlorobenzene	7.643	146	723440	37.635	ng	100
14) 1,2-Dichlorobenzene	7.961	146	704548	37.326	ng	100
15) Benzyl Alcohol	7.861	79	588293	38.458	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.131	45	795933	37.629	ng	100
17) 2-Methylphenol	8.072	107	556193	38.764	ng	100
18) Hexachloroethane	8.672	117	274123	37.878	ng	100
19) n-Nitroso-di-n-propyla...	8.413	70	524279	38.693	ng	100
20) 3+4-Methylphenols	8.402	107	751025	38.365	ng	100
22) Acetophenone	8.431	105	1030093	38.828	ng	100
24) Nitrobenzene	8.802	77	755619	39.362	ng	100
25) Isophorone	9.325	82	1457812	38.927	ng	100
26) 2-Nitrophenol	9.507	139	378834	39.996	ng	100
27) 2,4-Dimethylphenol	9.584	122	635763	39.219	ng	100
28) bis(2-Chloroethoxy)met...	9.802	93	868569	38.880	ng	100
29) 2,4-Dichlorophenol	10.055	162	613013	39.412	ng	100
30) 1,2,4-Trichlorobenzene	10.243	180	665418	37.930	ng	100
31) Naphthalene	10.431	128	2077988	38.617	ng	100
32) Benzoic acid	9.760	122	428303	39.629	ng	100
33) 4-Chloroaniline	10.555	127	893683	39.641	ng	100
34) Hexachlorobutadiene	10.707	225	407084	38.500	ng	100
35) Caprolactam	11.349	113	230696	40.293	ng	100
36) 4-Chloro-3-methylphenol	11.701	107	715549	39.885	ng	100
37) 2-Methylnaphthalene	12.049	142	1330251	38.973	ng	100
38) 1-Methylnaphthalene	12.266	142	1408803	38.606	ng	100
40) 1,2,4,5-Tetrachloroben...	12.419	216	731245	37.947	ng	100
41) Hexachlorocyclopentadiene	12.396	237	457226	38.901	ng	100
43) 2,4,6-Trichlorophenol	12.678	196	509510	39.371	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024864.D
Acq On : 06 Jun 2025 13:14
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Jun 06 16:02:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.760	196	550432	39.715	ng	100
46) 1,1'-Biphenyl	13.066	154	1882196	38.137	ng	100
47) 2-Chloronaphthalene	13.113	162	1451679	38.270	ng	100
48) 2-Nitroaniline	13.331	65	470289	40.328	ng	100
49) Acenaphthylene	13.966	152	2400804	37.959	ng	100
50) Dimethylphthalate	13.713	163	1902136	37.969	ng	100
51) 2,6-Dinitrotoluene	13.837	165	424228	39.280	ng	100
52) Acenaphthene	14.313	154	1386007	38.243	ng	100
53) 3-Nitroaniline	14.178	138	459200	40.971	ng	100
54) 2,4-Dinitrophenol	14.395	184	242575	37.658	ng	100
55) Dibenzofuran	14.660	168	2209494	37.980	ng	100
56) 4-Nitrophenol	14.531	139	336462	38.472	ng	100
57) 2,4-Dinitrotoluene	14.637	165	593534	39.287	ng	100
58) Fluorene	15.319	166	1771367	37.692	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.901	232	480983	38.773	ng	100
60) Diethylphthalate	15.101	149	1891525	37.885	ng	100
61) 4-Chlorophenyl-phenyle...	15.313	204	864669	37.629	ng	100
62) 4-Nitroaniline	15.366	138	422311	41.533	ng	100
63) Azobenzene	15.613	77	1765553	38.557	ng	100
65) 4,6-Dinitro-2-methylph...	15.431	198	339975	39.602	ng	100
66) n-Nitrosodiphenylamine	15.537	169	1559739	38.517	ng	100
67) 4-Bromophenyl-phenylether	16.231	248	556600	37.758	ng	100
68) Hexachlorobenzene	16.348	284	680613	38.085	ng	100
69) Atrazine	16.525	200	567988	38.691	ng	100
70) Pentachlorophenol	16.713	266	362165	39.157	ng	100
71) Phenanthrene	17.107	178	2760162	38.231	ng	100
72) Anthracene	17.195	178	2799870	38.291	ng	100
73) Carbazole	17.489	167	2607544	38.474	ng	100
74) Di-n-butylphthalate	18.078	149	3324411	39.589	ng	100
75) Fluoranthene	19.195	202	3194654	38.177	ng	100
77) Benzidine	19.395	184	1825007	42.168	ng	100
78) Pyrene	19.572	202	3309259	37.906	ng	100
80) Butylbenzylphthalate	20.519	149	1569262	39.243	ng	100
81) Benzo(a)anthracene	21.466	228	3407877	38.131	ng	100
82) 3,3'-Dichlorobenzidine	21.401	252	1377414	38.820	ng	100
83) Chrysene	21.530	228	3196624	37.748	ng	100
84) Bis(2-ethylhexyl)phtha...	21.407	149	2227904	38.886	ng	100
85) Di-n-octyl phthalate	22.642	149	3868411	38.306	ng	100
87) Indeno(1,2,3-cd)pyrene	28.424	276	4640451	38.704	ng	100
88) Benzo(b)fluoranthene	23.713	252	3704546	39.393	ng	100
89) Benzo(k)fluoranthene	23.771	252	3635617	37.979	ng	100
90) Benzo(a)pyrene	24.571	252	3516755	38.291	ng	100
91) Dibenzo(a,h)anthracene	28.483	278	3757160	38.499	ng	100
92) Benzo(g,h,i)perylene	29.559	276	3734621	38.569	ng	100

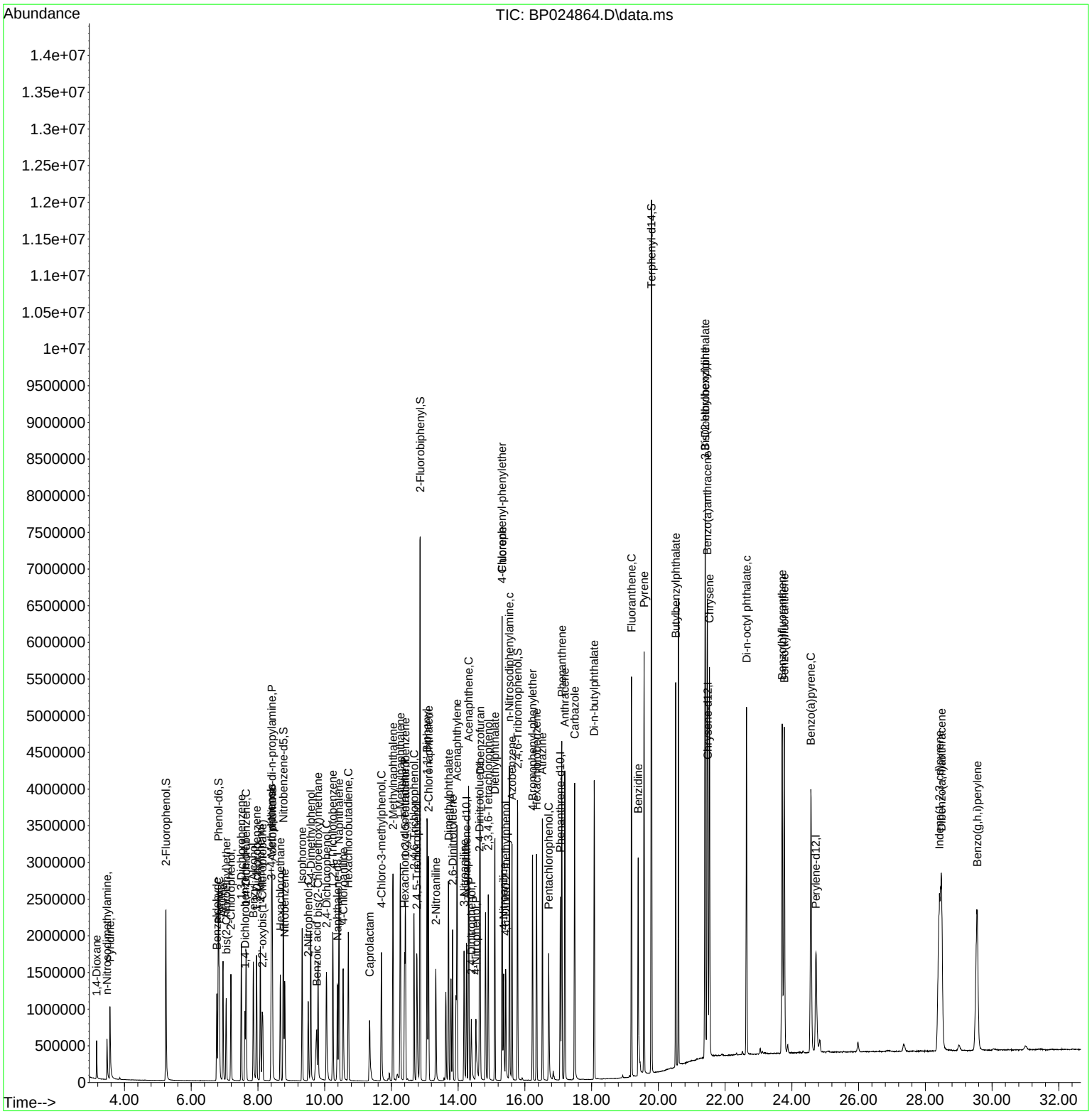
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024864.D
Acq On : 06 Jun 2025 13:14
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Jun 06 16:02:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024865.D
Acq On : 06 Jun 2025 13:56
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Jun 06 16:03:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.613	152	235518	20.000	ng	0.00
21) Naphthalene-d8	10.384	136	975092	20.000	ng	0.00
39) Acenaphthene-d10	14.260	164	631564	20.000	ng	0.01
64) Phenanthrene-d10	17.072	188	1197709	20.000	ng	0.01
76) Chrysene-d12	21.501	240	1276071	20.000	ng	0.02
86) Perylene-d12	24.742	264	1475251	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	1510671	107.067	ng	0.00
7) Phenol-d6	6.813	99	1973616	105.719	ng	0.00
23) Nitrobenzene-d5	8.760	82	2165794	107.931	ng	0.00
42) 2,4,6-Tribromophenol	15.784	330	940592	107.721	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	4934980	105.263	ng	0.00
79) Terphenyl-d14	19.801	244	7428863	104.339	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.167	88	321356	51.761	ng	100
3) Pyridine	3.567	79	806405	54.010	ng	98
4) n-Nitrosodimethylamine	3.478	42	319345	52.317	ng	98
6) Aniline	6.955	93	1263250	53.024	ng	100
8) 2-Chlorophenol	7.190	128	855311	53.473	ng	99
9) Benzaldehyde	6.766	77	579996	53.748	ng	99
10) Phenol	6.843	94	1015401	52.761	ng	99
11) bis(2-Chloroethyl)ether	7.049	93	802393	53.010	ng	99
12) 1,3-Dichlorobenzene	7.502	146	925262	51.854	ng	99
13) 1,4-Dichlorobenzene	7.643	146	944146	52.440	ng	100
14) 1,2-Dichlorobenzene	7.960	146	906741	51.287	ng	99
15) Benzyl Alcohol	7.860	79	758909	52.968	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.131	45	1030911	52.035	ng	99
17) 2-Methylphenol	8.066	107	712455	53.013	ng	100
18) Hexachloroethane	8.672	117	359979	53.107	ng	99
19) n-Nitroso-di-n-propyla...	8.413	70	671592	52.919	ng	99
20) 3+4-Methylphenols	8.396	107	960504	52.385	ng	97
22) Acetophenone	8.431	105	1304864	52.966	ng	99
24) Nitrobenzene	8.802	77	955872	53.620	ng	99
25) Isophorone	9.325	82	1862532	53.556	ng	100
26) 2-Nitrophenol	9.513	139	489550	55.657	ng	99
27) 2,4-Dimethylphenol	9.578	122	806896	53.602	ng	99
28) bis(2-Chloroethoxy)met...	9.801	93	1133590	54.643	ng	99
29) 2,4-Dichlorophenol	10.054	162	797316	55.201	ng	99
30) 1,2,4-Trichlorobenzene	10.243	180	857570	52.640	ng	98
31) Naphthalene	10.437	128	2630251	52.637	ng	100
32) Benzoic acid	9.772	122	561400	55.936	ng	98
33) 4-Chloroaniline	10.548	127	1148401	54.855	ng	99
34) Hexachlorobutadiene	10.713	225	532031	54.184	ng	98
35) Caprolactam	11.354	113	288081	54.183	ng	98
36) 4-Chloro-3-methylphenol	11.701	107	912092	54.747	ng	99
37) 2-Methylnaphthalene	12.048	142	1697018	53.539	ng	99
38) 1-Methylnaphthalene	12.272	142	1807332	53.333	ng	98
40) 1,2,4,5-Tetrachloroben...	12.419	216	949667	52.992	ng	100
41) Hexachlorocyclopentadiene	12.395	237	638568	58.420	ng	100
43) 2,4,6-Trichlorophenol	12.678	196	649483	53.966	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024865.D
Acq On : 06 Jun 2025 13:56
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Jun 06 16:03:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.760	196	707702	54.908	ng		99
46) 1,1'-Biphenyl	13.072	154	2382821	51.916	ng		99
47) 2-Chloronaphthalene	13.113	162	1849683	52.435	ng		100
48) 2-Nitroaniline	13.337	65	586484	54.079	ng		99
49) Acenaphthylene	13.978	152	3062130	52.061	ng		100
50) Dimethylphthalate	13.719	163	2447212	52.527	ng		100
51) 2,6-Dinitrotoluene	13.837	165	535050	53.272	ng		98
52) Acenaphthene	14.325	154	1716357	50.924	ng		99
53) 3-Nitroaniline	14.178	138	580183	55.664	ng		99
54) 2,4-Dinitrophenol	14.401	184	321110	51.248	ng		95
55) Dibenzofuran	14.666	168	2773911	51.272	ng		99
56) 4-Nitrophenol	14.531	139	435101	51.384	ng		96
57) 2,4-Dinitrotoluene	14.648	165	768586	54.706	ng		98
58) Fluorene	15.331	166	2264731	51.819	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.907	232	623685	54.063	ng		100
60) Diethylphthalate	15.101	149	2438733	52.523	ng		99
61) 4-Chlorophenyl-phenyle...	15.319	204	1118999	52.365	ng		99
62) 4-Nitroaniline	15.372	138	530012	56.050	ng		96
63) Azobenzene	15.619	77	2249353	52.821	ng		100
65) 4,6-Dinitro-2-methylph...	15.431	198	439647	55.863	ng		98
66) n-Nitrosodiphenylamine	15.542	169	1974147	53.178	ng		100
67) 4-Bromophenyl-phenylether	16.236	248	737798	54.595	ng		97
68) Hexachlorobenzene	16.354	284	867444	52.948	ng		99
69) Atrazine	16.531	200	732007	54.392	ng		98
70) Pentachlorophenol	16.725	266	486264	57.349	ng		99
71) Phenanthrene	17.113	178	3477677	52.543	ng		100
72) Anthracene	17.201	178	3558691	53.089	ng		99
73) Carbazole	17.495	167	3330211	53.599	ng		100
74) Di-n-butylphthalate	18.077	149	4253447	55.253	ng		100
75) Fluoranthene	19.201	202	4024039	52.455	ng		100
77) Benzidine	19.413	184	2202092	55.718	ng		100
78) Pyrene	19.577	202	4217295	52.900	ng		100
80) Butylbenzylphthalate	20.530	149	2045307	56.010	ng		99
81) Benzo(a)anthracene	21.477	228	4296840	52.648	ng		100
82) 3,3'-Dichlorobenzidine	21.401	252	1730292	53.402	ng		99
83) Chrysene	21.548	228	4080671	52.768	ng		99
84) Bis(2-ethylhexyl)phtha...	21.407	149	2938577	56.166	ng		99
85) Di-n-octyl phthalate	22.642	149	5061827	54.889	ng		100
87) Indeno(1,2,3-cd)pyrene	28.424	276	5749111	53.412	ng	#	93
88) Benzo(b)fluoranthene	23.701	252	4545535	53.840	ng		100
89) Benzo(k)fluoranthene	23.771	252	4641829	54.012	ng		100
90) Benzo(a)pyrene	24.583	252	4478222	54.313	ng		99
91) Dibenzo(a,h)anthracene	28.500	278	4715596	53.822	ng		99
92) Benzo(g,h,i)perylene	29.547	276	4649887	53.490	ng		100

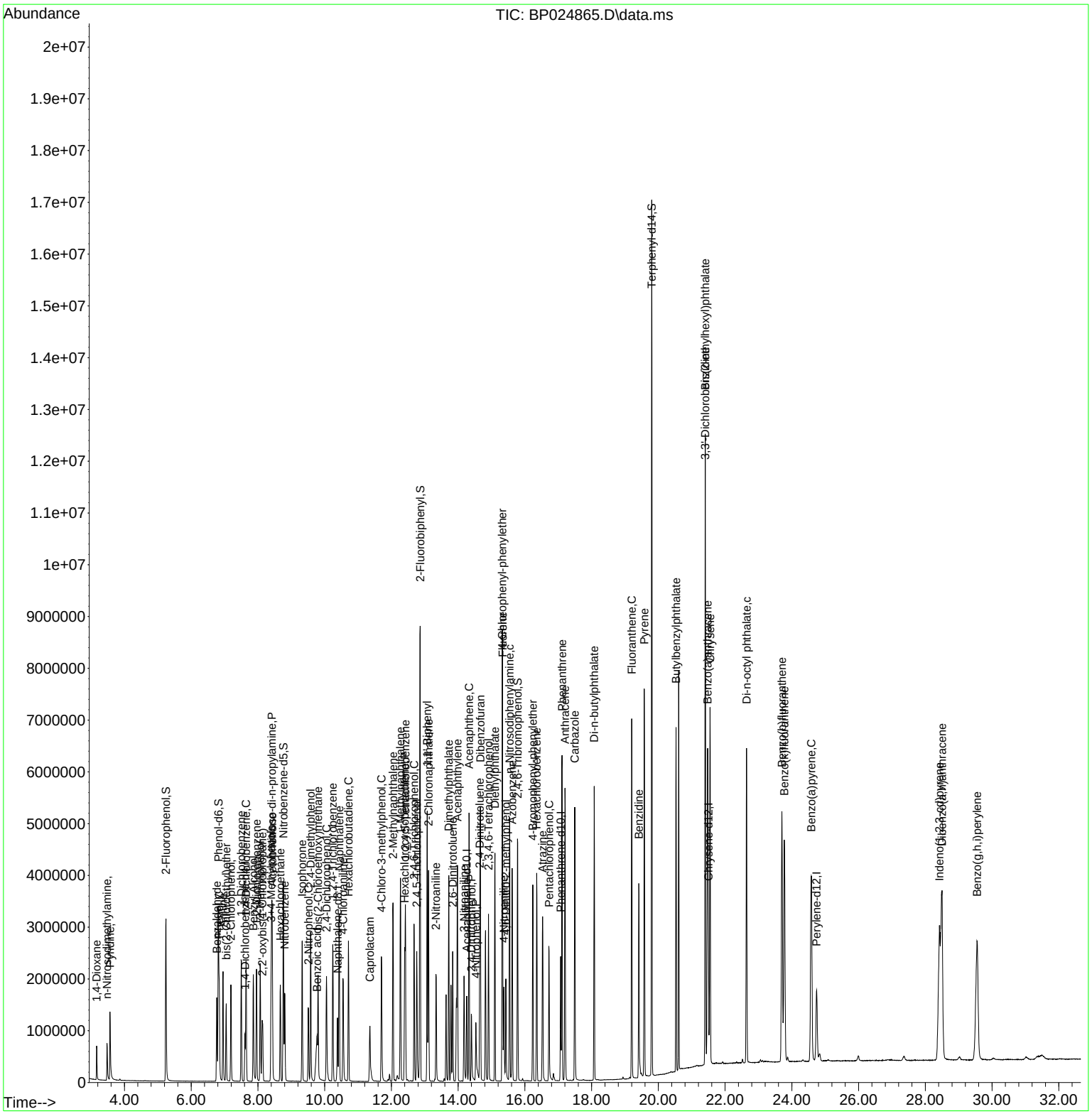
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024865.D
Acq On : 06 Jun 2025 13:56
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Jun 06 16:03:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024866.D
Acq On : 06 Jun 2025 14:37
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: Jun 06 16:04:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.608	152	233459	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	1006719	20.000	ng	0.00
39) Acenaphthene-d10	14.248	164	639758	20.000	ng	0.00
64) Phenanthrene-d10	17.042	188	1223735	20.000	ng	-0.02
76) Chrysene-d12	21.477	240	1245531	20.000	ng	0.00
86) Perylene-d12	24.736	264	1494809	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.237	112	1754536	125.447	ng	0.00
7) Phenol-d6	6.814	99	2365958	127.853	ng	0.00
23) Nitrobenzene-d5	8.760	82	2555584	123.355	ng	0.00
42) 2,4,6-Tribromophenol	15.772	330	1097449	124.076	ng	-0.01
45) 2-Fluorobiphenyl	12.860	172	5620380	118.347	ng	0.00
79) Terphenyl-d14	19.778	244	8373144	120.485	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.167	88	360857	58.637	ng	100
3) Pyridine	3.561	79	957340	64.685	ng	99
4) n-Nitrosodimethylamine	3.478	42	387978	64.122	ng	99
6) Aniline	6.955	93	1528129	64.708	ng	100
8) 2-Chlorophenol	7.190	128	995913	62.813	ng	99
9) Benzaldehyde	6.766	77	608861	56.921	ng	99
10) Phenol	6.843	94	1231710	64.565	ng	98
11) bis(2-Chloroethyl)ether	7.043	93	926134	61.724	ng	98
12) 1,3-Dichlorobenzene	7.496	146	1063861	60.147	ng	99
13) 1,4-Dichlorobenzene	7.643	146	1074203	60.190	ng	100
14) 1,2-Dichlorobenzene	7.955	146	1045089	59.634	ng	99
15) Benzyl Alcohol	7.861	79	916921	64.561	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.125	45	1167705	59.460	ng	100
17) 2-Methylphenol	8.066	107	848195	63.670	ng	100
18) Hexachloroethane	8.666	117	401855	59.807	ng	96
19) n-Nitroso-di-n-propyla...	8.413	70	779593	61.970	ng	100
20) 3+4-Methylphenols	8.396	107	1154457	63.519	ng	96
22) Acetophenone	8.431	105	1540416	60.563	ng	99
24) Nitrobenzene	8.808	77	1136226	61.735	ng	99
25) Isophorone	9.325	82	2191187	61.027	ng	100
26) 2-Nitrophenol	9.507	139	587760	64.723	ng	99
27) 2,4-Dimethylphenol	9.578	122	965935	62.151	ng	100
28) bis(2-Chloroethoxy)met...	9.802	93	1278529	59.694	ng	98
29) 2,4-Dichlorophenol	10.049	162	945641	63.413	ng	99
30) 1,2,4-Trichlorobenzene	10.243	180	995211	59.169	ng	99
31) Naphthalene	10.431	128	3124640	60.566	ng	100
32) Benzoic acid	9.778	122	710052	68.525	ng	100
33) 4-Chloroaniline	10.549	127	1397378	64.650	ng	98
34) Hexachlorobutadiene	10.707	225	598677	59.056	ng	100
35) Caprolactam	11.360	113	349412	63.654	ng	93
36) 4-Chloro-3-methylphenol	11.696	107	1096315	63.738	ng	98
37) 2-Methylnaphthalene	12.043	142	2004422	61.250	ng	99
38) 1-Methylnaphthalene	12.266	142	2093346	59.832	ng	99
40) 1,2,4,5-Tetrachloroben...	12.419	216	1100767	60.637	ng	100
41) Hexachlorocyclopentadiene	12.390	237	707348	63.884	ng	98
43) 2,4,6-Trichlorophenol	12.672	196	776210	63.669	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024866.D
Acq On : 06 Jun 2025 14:37
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: Jun 06 16:04:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.760	196	836590	64.077	ng	99
46) 1,1'-Biphenyl	13.066	154	2797746	60.176	ng	100
47) 2-Chloronaphthalene	13.107	162	2180558	61.023	ng	99
48) 2-Nitroaniline	13.331	65	718204	65.376	ng	97
49) Acenaphthylene	13.966	152	3653383	61.318	ng	100
50) Dimethylphthalate	13.707	163	2826983	59.902	ng	99
51) 2,6-Dinitrotoluene	13.831	165	639722	62.878	ng	96
52) Acenaphthene	14.313	154	2051309	60.082	ng	99
53) 3-Nitroaniline	14.172	138	698945	66.199	ng	98
54) 2,4-Dinitrophenol	14.390	184	398250	61.497	ng	97
55) Dibenzofuran	14.654	168	3267254	59.618	ng	99
56) 4-Nitrophenol	14.525	139	539162	61.650	ng	97
57) 2,4-Dinitrotoluene	14.637	165	901515	63.345	ng	98
58) Fluorene	15.319	166	2628887	59.381	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.895	232	730647	62.524	ng	99
60) Diethylphthalate	15.090	149	2772340	58.943	ng	98
61) 4-Chlorophenyl-phenyle...	15.307	204	1276716	58.980	ng	100
62) 4-Nitroaniline	15.360	138	639038	66.714	ng	96
63) Azobenzene	15.613	77	2561443	59.380	ng	98
65) 4,6-Dinitro-2-methylph...	15.419	198	524098	65.178	ng	100
66) n-Nitrosodiphenylamine	15.531	169	2282932	60.188	ng	99
67) 4-Bromophenyl-phenylether	16.225	248	839674	60.812	ng	98
68) Hexachlorobenzene	16.342	284	1008320	60.238	ng	97
69) Atrazine	16.519	200	836217	60.814	ng	99
70) Pentachlorophenol	16.701	266	561603	64.826	ng	99
71) Phenanthrene	17.089	178	4046968	59.844	ng	99
72) Anthracene	17.189	178	4160775	60.751	ng	99
73) Carbazole	17.472	167	3861413	60.827	ng	99
74) Di-n-butylphthalate	18.060	149	4672145	59.401	ng	100
75) Fluoranthene	19.178	202	4656349	59.407	ng	99
77) Benzidine	19.383	184	2477600	64.227	ng	100
78) Pyrene	19.560	202	4751590	61.064	ng	100
80) Butylbenzylphthalate	20.513	149	2225855	62.449	ng	96
81) Benzo(a)anthracene	21.460	228	4896757	61.469	ng	100
82) 3,3'-Dichlorobenzidine	21.389	252	1982344	62.681	ng	100
83) Chrysene	21.530	228	4625245	61.276	ng	99
84) Bis(2-ethylhexyl)phtha...	21.395	149	3103331	60.769	ng	99
85) Di-n-octyl phthalate	22.636	149	5491065	61.004	ng	100
87) Indeno(1,2,3-cd)pyrene	28.436	276	6771619	62.088	ng	100
88) Benzo(b)fluoranthene	23.713	252	5290333	61.842	ng	99
89) Benzo(k)fluoranthene	23.777	252	5191049	59.612	ng	99
90) Benzo(a)pyrene	24.595	252	5093340	60.965	ng	99
91) Dibenzo(a,h)anthracene	28.495	278	5489005	61.830	ng	100
92) Benzo(g,h,i)perylene	29.571	276	5442983	61.794	ng	100

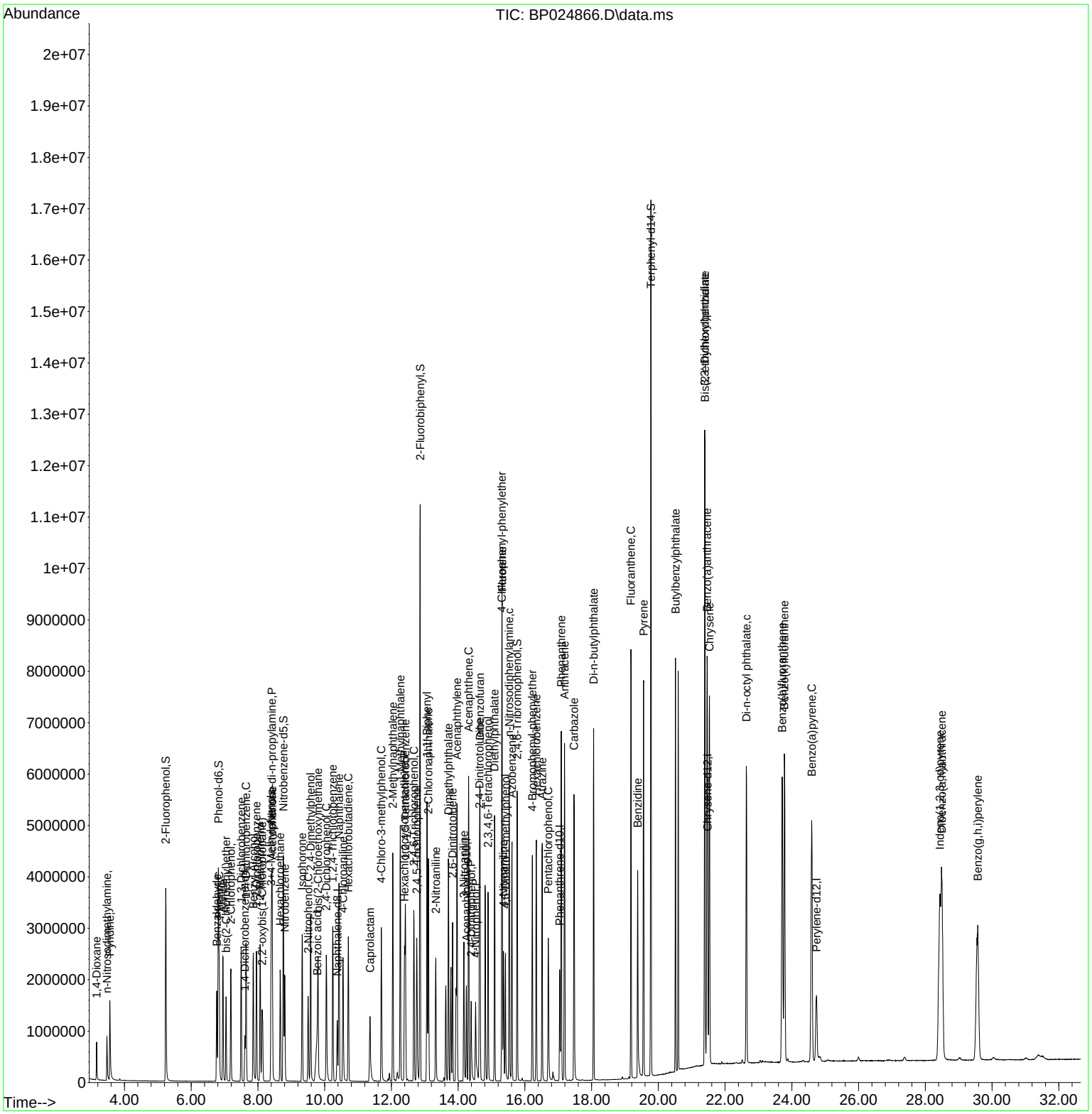
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024866.D
Acq On : 06 Jun 2025 14:37
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: Jun 06 16:04:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024867.D
Acq On : 06 Jun 2025 15:18
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Quant Time: Jun 06 16:05:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.614	152	251656	20.000	ng		0.00
21) Naphthalene-d8	10.384	136	1097725	20.000	ng		0.00
39) Acenaphthene-d10	14.254	164	655445	20.000	ng		0.00
64) Phenanthrene-d10	17.054	188	1282325	20.000	ng		0.00
76) Chrysene-d12	21.489	240	1346775	20.000	ng		0.00
86) Perylene-d12	24.742	264	1568664	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.243	112	2447087	162.312	ng		0.00
7) Phenol-d6	6.819	99	3149578	157.892	ng		0.00
23) Nitrobenzene-d5	8.766	82	3363733	148.903	ng		0.00
42) 2,4,6-Tribromophenol	15.778	330	1494447	164.916	ng		0.00
45) 2-Fluorobiphenyl	12.866	172	7387084	151.825	ng		0.00
79) Terphenyl-d14	19.789	244	11194678	148.975	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.173	88	520741	78.498	ng		100
3) Pyridine	3.567	79	1323253	82.944	ng		99
4) n-Nitrosodimethylamine	3.484	42	528461	81.024	ng		100
6) Aniline	6.961	93	2044864	80.328	ng		100
8) 2-Chlorophenol	7.196	128	1357118	79.405	ng		99
9) Benzaldehyde	6.772	77	650456	56.412	ng		99
10) Phenol	6.843	94	1640201	79.761	ng		99
11) bis(2-Chloroethyl)ether	7.049	93	1254500	77.563	ng		99
12) 1,3-Dichlorobenzene	7.502	146	1480514	77.650	ng		99
13) 1,4-Dichlorobenzene	7.649	146	1497910	77.862	ng		98
14) 1,2-Dichlorobenzene	7.961	146	1431405	75.771	ng		98
15) Benzyl Alcohol	7.866	79	1218925	79.620	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.143	45	1584064	74.829	ng		98
17) 2-Methylphenol	8.072	107	1128854	78.611	ng		99
18) Hexachloroethane	8.672	117	566168	78.169	ng		97
19) n-Nitroso-di-n-propyla...	8.419	70	1035677	76.374	ng		99
20) 3+4-Methylphenols	8.402	107	1524653	77.821	ng		99
22) Acetophenone	8.431	105	2033065	73.305	ng	#	99
24) Nitrobenzene	8.808	77	1489831	74.236	ng		99
25) Isophorone	9.331	82	3090456	78.936	ng		98
26) 2-Nitrophenol	9.508	139	870704	87.932	ng		98
27) 2,4-Dimethylphenol	9.584	122	1396457	82.403	ng		98
28) bis(2-Chloroethoxy)met...	9.808	93	1828377	78.289	ng		98
29) 2,4-Dichlorophenol	10.055	162	1419757	87.313	ng		98
30) 1,2,4-Trichlorobenzene	10.243	180	1542041	84.080	ng		99
31) Naphthalene	10.431	128	4104122	72.957	ng		100
32) Benzoic acid	9.802	122	1065621	94.314	ng		97
33) 4-Chloroaniline	10.555	127	1816811	77.087	ng		100
34) Hexachlorobutadiene	10.713	225	830962	75.174	ng		99
35) Caprolactam	11.366	113	457044	76.358	ng		97
36) 4-Chloro-3-methylphenol	11.702	107	1442747	76.925	ng		99
37) 2-Methylnaphthalene	12.049	142	2642800	74.062	ng		99
38) 1-Methylnaphthalene	12.272	142	2821350	73.955	ng		99
40) 1,2,4,5-Tetrachloroben...	12.425	216	1472269	79.160	ng		100
41) Hexachlorocyclopentadiene	12.396	237	1031961	90.970	ng		99
43) 2,4,6-Trichlorophenol	12.678	196	1039009	83.186	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024867.D
Acq On : 06 Jun 2025 15:18
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Quant Time: Jun 06 16:05:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.760	196	1117015	83.507	ng		99
46) 1,1'-Biphenyl	13.072	154	3678354	77.223	ng		99
47) 2-Chloronaphthalene	13.119	162	2834595	77.428	ng		99
48) 2-Nitroaniline	13.337	65	930628	82.685	ng		96
49) Acenaphthylene	13.966	152	4731215	77.508	ng		100
50) Dimethylphthalate	13.719	163	3769405	77.959	ng		100
51) 2,6-Dinitrotoluene	13.837	165	829970	79.625	ng		95
52) Acenaphthene	14.319	154	2715693	77.638	ng		100
53) 3-Nitroaniline	14.178	138	914372	84.530	ng		98
54) 2,4-Dinitrophenol	14.390	184	537870	79.298	ng		99
55) Dibenzofuran	14.654	168	4234879	75.424	ng		99
56) 4-Nitrophenol	14.531	139	720226	78.739	ng		98
57) 2,4-Dinitrotoluene	14.643	165	1200593	82.341	ng		98
58) Fluorene	15.319	166	3484502	76.824	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.901	232	970694	81.077	ng		100
60) Diethylphthalate	15.095	149	3799279	78.844	ng		98
61) 4-Chlorophenyl-phenyle...	15.313	204	1725059	77.784	ng		97
62) 4-Nitroaniline	15.372	138	875375	89.199	ng		96
63) Azobenzene	15.613	77	3426736	77.538	ng		99
65) 4,6-Dinitro-2-methylph...	15.425	198	728771	86.490	ng		96
66) n-Nitrosodiphenylamine	15.543	169	3044661	76.603	ng		98
67) 4-Bromophenyl-phenylether	16.231	248	1157878	80.026	ng		99
68) Hexachlorobenzene	16.348	284	1395074	79.535	ng		99
69) Atrazine	16.525	200	1168753	81.114	ng		98
70) Pentachlorophenol	16.707	266	817045	90.003	ng		99
71) Phenanthrene	17.095	178	5340604	75.365	ng		99
72) Anthracene	17.189	178	5555906	77.415	ng		99
73) Carbazole	17.478	167	5166153	77.661	ng		99
74) Di-n-butylphthalate	18.066	149	6583572	79.879	ng		99
75) Fluoranthene	19.189	202	6351620	77.333	ng		100
77) Benzidine	19.389	184	2849177	68.307	ng		100
78) Pyrene	19.572	202	6497989	77.229	ng		99
80) Butylbenzylphthalate	20.525	149	3175233	82.388	ng		98
81) Benzo(a)anthracene	21.466	228	6696396	77.741	ng		99
82) 3,3'-Dichlorobenzidine	21.395	252	2698352	78.907	ng		99
83) Chrysene	21.536	228	6294743	77.125	ng		99
84) Bis(2-ethylhexyl)phtha...	21.407	149	4578538	82.917	ng		98
85) Di-n-octyl phthalate	22.636	149	7936082	81.539	ng		100
87) Indeno(1,2,3-cd)pyrene	28.424	276	9013339	78.751	ng	#	93
88) Benzo(b)fluoranthene	23.713	252	7112180	79.224	ng		99
89) Benzo(k)fluoranthene	23.783	252	7179421	78.564	ng		100
90) Benzo(a)pyrene	24.595	252	6983429	79.653	ng		99
91) Dibenzo(a,h)anthracene	28.501	278	7356566	78.965	ng		100
92) Benzo(g,h,i)perylene	29.554	276	7260298	78.545	ng		98

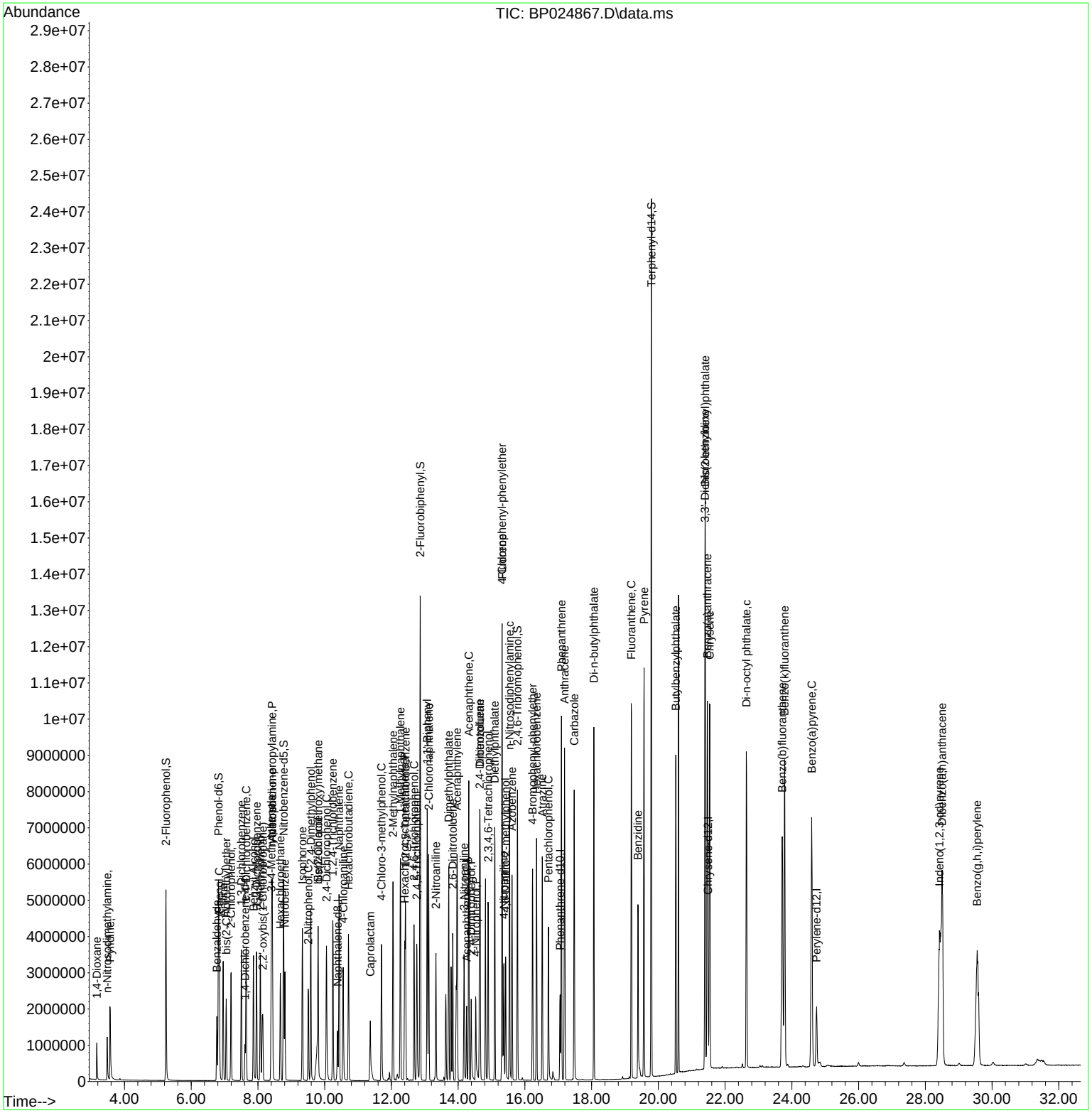
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024867.D
Acq On : 06 Jun 2025 15:18
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Quant Time: Jun 06 16:05:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 15:53:04 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.596	152	259470	20.000	ng		-0.02
21) Naphthalene-d8	10.366	136	1129880	20.000	ng		-0.01
39) Acenaphthene-d10	14.248	164	734874	20.000	ng		0.00
64) Phenanthrene-d10	17.054	188	1466437	20.000	ng		0.00
76) Chrysene-d12	21.489	240	1557824	20.000	ng		0.00
86) Perylene-d12	24.736	264	1860226	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.231	112	1138471	73.239	ng		-0.01
7) Phenol-d6	6.802	99	1573129	76.488	ng		-0.01
23) Nitrobenzene-d5	8.749	82	1561363	67.150	ng		-0.01
42) 2,4,6-Tribromophenol	15.778	330	743311	73.160	ng		0.00
45) 2-Fluorobiphenyl	12.848	172	3405857	62.434	ng		-0.01
79) Terphenyl-d14	19.789	244	5436960	62.551	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.161	88	241705	35.338	ng		98
3) Pyridine	3.555	79	659477	40.092	ng		98
4) n-Nitrosodimethylamine	3.467	42	278482	41.411	ng		94
6) Aniline	6.937	93	1054913	40.192	ng		100
8) 2-Chlorophenol	7.172	128	687858	39.034	ng		97
9) Benzaldehyde	6.755	77	576121m	48.599	ng		
10) Phenol	6.825	94	845877	39.895	ng		98
11) bis(2-Chloroethyl)ether	7.031	93	656501	39.368	ng		99
12) 1,3-Dichlorobenzene	7.490	146	735256	37.402	ng		99
13) 1,4-Dichlorobenzene	7.631	146	742188	37.417	ng		99
14) 1,2-Dichlorobenzene	7.943	146	722064	37.071	ng		99
15) Benzyl Alcohol	7.843	79	644939	40.859	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.125	45	849644	38.927	ng		98
17) 2-Methylphenol	8.055	107	591959	39.981	ng		98
18) Hexachloroethane	8.660	117	277433	37.151	ng		98
19) n-Nitroso-di-n-propyla...	8.402	70	559389	40.009	ng		99
20) 3+4-Methylphenols	8.384	107	797217	39.466	ng		99
22) Acetophenone	8.419	105	1100455	38.549	ng	#	99
24) Nitrobenzene	8.790	77	810932	39.258	ng		99
25) Isophorone	9.313	82	1576033	39.109	ng		99
26) 2-Nitrophenol	9.496	139	403179	39.558	ng		99
27) 2,4-Dimethylphenol	9.566	122	676106	38.761	ng		99
28) bis(2-Chloroethoxy)met...	9.784	93	921897	38.351	ng		99
29) 2,4-Dichlorophenol	10.043	162	653496	39.046	ng		99
30) 1,2,4-Trichlorobenzene	10.231	180	689288	36.514	ng		100
31) Naphthalene	10.413	128	2147539	37.089	ng		100
32) Benzoic acid	9.749	122	476446	40.420	ng		99
33) 4-Chloroaniline	10.543	127	960185	39.581	ng		99
34) Hexachlorobutadiene	10.696	225	413168	36.314	ng		100
35) Caprolactam	11.337	113	254008	41.229	ng		98
36) 4-Chloro-3-methylphenol	11.690	107	781340	40.474	ng		100
37) 2-Methylnaphthalene	12.037	142	1411483	38.430	ng		99
38) 1-Methylnaphthalene	12.254	142	1479329	37.674	ng		97
40) 1,2,4,5-Tetrachloroben...	12.413	216	774379	37.136	ng		100
41) Hexachlorocyclopentadiene	12.384	237	485560	38.177	ng		97
43) 2,4,6-Trichlorophenol	12.666	196	543521	38.812	ng		98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.760	196	585859	39.064	ng	99
46) 1,1'-Biphenyl	13.066	154	2002791	37.502	ng	99
47) 2-Chloronaphthalene	13.107	162	1514031	36.886	ng	100
48) 2-Nitroaniline	13.331	65	515024	40.813	ng	99
49) Acenaphthylene	13.966	152	2551023	37.274	ng	100
50) Dimethylphthalate	13.707	163	2015820	37.185	ng	99
51) 2,6-Dinitrotoluene	13.831	165	445393	38.111	ng	95
52) Acenaphthene	14.313	154	1469566	37.472	ng	98
53) 3-Nitroaniline	14.172	138	492714	40.626	ng	100
54) 2,4-Dinitrophenol	14.401	184	266900	38.197	ng	98
55) Dibenzofuran	14.660	168	2304340	36.605	ng	98
56) 4-Nitrophenol	14.531	139	362887	38.363	ng	94
57) 2,4-Dinitrotoluene	14.637	165	636513	38.936	ng	99
58) Fluorene	15.319	166	1883765	37.043	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.901	232	514561	38.401	ng	100
60) Diethylphthalate	15.101	149	2033664	37.642	ng	99
61) 4-Chlorophenyl-phenyle...	15.313	204	915384	36.814	ng	98
62) 4-Nitroaniline	15.366	138	464418	42.233	ng	99
63) Azobenzene	15.619	77	1893664	38.217	ng	99
65) 4,6-Dinitro-2-methylph...	15.425	198	375376	38.956	ng	97
66) n-Nitrosodiphenylamine	15.542	169	1674745	36.846	ng	99
67) 4-Bromophenyl-phenylether	16.237	248	593842	35.890	ng	98
68) Hexachlorobenzene	16.348	284	725771	36.182	ng	100
69) Atrazine	16.531	200	611440	37.108	ng	99
70) Pentachlorophenol	16.719	266	407441	39.247	ng	99
71) Phenanthrene	17.107	178	2965530	36.595	ng	99
72) Anthracene	17.207	178	3028697	36.903	ng	99
73) Carbazole	17.489	167	2872120	37.755	ng	100
74) Di-n-butylphthalate	18.072	149	3440228	36.500	ng	100
75) Fluoranthene	19.195	202	3413021	36.337	ng	100
77) Benzidine	19.395	184	2156506	44.696	ng	100
78) Pyrene	19.572	202	3527120	36.241	ng	99
80) Butylbenzylphthalate	20.519	149	1664895	37.347	ng	99
81) Benzo(a)anthracene	21.472	228	3660732	36.741	ng	100
82) 3,3'-Dichlorobenzidine	21.395	252	1487801	37.613	ng	98
83) Chrysene	21.536	228	3438391	36.421	ng	99
84) Bis(2-ethylhexyl)phtha...	21.407	149	2365859	37.041	ng	100
85) Di-n-octyl phthalate	22.642	149	4126479	36.654	ng	100
87) Indeno(1,2,3-cd)pyrene	28.436	276	5100289	37.578	ng	100
88) Benzo(b)fluoranthene	23.718	252	3910900	36.735	ng	99
89) Benzo(k)fluoranthene	23.795	252	3904662	36.032	ng	100
90) Benzo(a)pyrene	24.595	252	3839776	36.932	ng	100
91) Dibenzo(a,h)anthracene	28.501	278	4123111	37.321	ng	99
92) Benzo(g,h,i)perylene	29.577	276	4097986	37.385	ng	99

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

ICAL Form

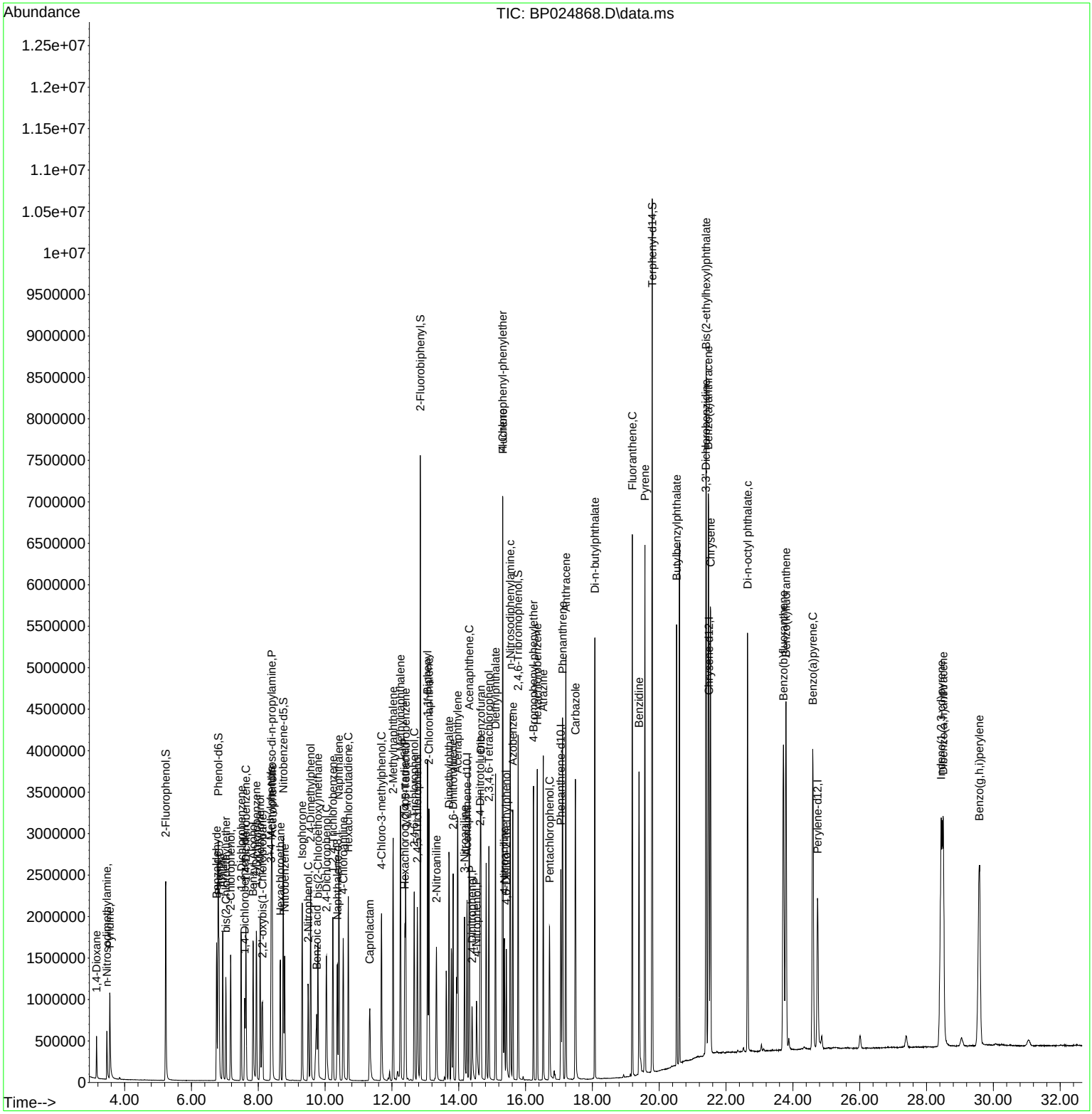
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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	103	-0.02
2		1,4-Dioxane	0.527	0.466	11.6	97	0.00
3		Pyridine	1.268	1.271	-0.2	107	-0.01
4		n-Nitrosodimethylamine	0.518	0.537	-3.7	110	-0.01
5	S	2-Fluorophenol	1.198	1.097	8.4	97	-0.01
6		Aniline	2.023	2.033	-0.5	106	-0.02
7	S	Phenol-d6	1.585	1.516	4.4	101	-0.01
8		2-Chlorophenol	1.358	1.326	2.4	104	-0.02
9		Benzaldehyde	0.914	1.110	-21.4	131	-0.02
10	C	Phenol	1.634	1.630	0.2	106	-0.02
11		bis(2-Chloroethyl)ether	1.285	1.265	1.6	106	-0.02
12		1,3-Dichlorobenzene	1.515	1.417	6.5	103	-0.01
13	C	1,4-Dichlorobenzene	1.529	1.430	6.5	103	-0.01
14		1,2-Dichlorobenzene	1.501	1.391	7.3	102	-0.02
15		Benzyl Alcohol	1.217	1.243	-2.1	110	-0.02
16		2,2'-oxybis(1-Chloropropane	1.682	1.637	2.7	107	0.00
17		2-Methylphenol	1.141	1.141	0.0	106	-0.02
18		Hexachloroethane	0.576	0.535	7.1	101	-0.01
19	P	n-Nitroso-di-n-propylamine	1.078	1.078	0.0	107	-0.01
20		3+4-Methylphenols	1.557	1.536	1.3	106	-0.02
21	I	Naphthalene-d8	1.000	1.000	0.0	108	-0.01
22		Acetophenone	0.505	0.487	3.6	107	-0.01
23	S	Nitrobenzene-d5	0.412	0.345	16.3	92	-0.01
24		Nitrobenzene	0.366	0.359	1.9	107	-0.01
25		Isophorone	0.713	0.697	2.2	108	-0.01
26	C	2-Nitrophenol	0.180	0.178	1.1	106	-0.01
27		2,4-Dimethylphenol	0.309	0.299	3.2	106	-0.02
28		bis(2-Chloroethoxy)methane	0.426	0.408	4.2	106	-0.02
29	C	2,4-Dichlorophenol	0.296	0.289	2.4	107	-0.01
30		1,2,4-Trichlorobenzene	0.334	0.305	8.7	104	-0.01
31		Naphthalene	1.025	0.950	7.3	103	-0.02
32		Benzoic acid	0.209	0.211	-1.0	111	-0.01
33		4-Chloroaniline	0.429	0.425	0.9	107	-0.01
34	C	Hexachlorobutadiene	0.201	0.183	9.0	101	-0.01
35		Caprolactam	0.109	0.112	-2.8	110	-0.01
36	C	4-Chloro-3-methylphenol	0.342	0.346	-1.2	109	-0.01
37		2-Methylnaphthalene	0.650	0.625	3.8	106	-0.01
38		1-Methylnaphthalene	0.695	0.655	5.8	105	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
40		1,2,4,5-Tetrachlorobenzene	0.568	0.527	7.2	106	0.00
41	P	Hexachlorocyclopentadiene	0.346	0.330	4.6	106	-0.01
42	S	2,4,6-Tribromophenol	0.277	0.253	8.7	102	0.00
43	C	2,4,6-Trichlorophenol	0.381	0.370	2.9	107	-0.01
44		2,4,5-Trichlorophenol	0.408	0.399	2.2	106	0.00
45	S	2-Fluorobiphenyl	1.485	1.159	22.0	90	-0.01
46		1,1'-Biphenyl	1.453	1.363	6.2	106	0.00
47		2-Chloronaphthalene	1.117	1.030	7.8	104	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.343	0.350	-2.0	110	0.00
49		Acenaphthylene	1.863	1.736	6.8	106	0.00
50		Dimethylphthalate	1.475	1.372	7.0	106	0.00
51		2,6-Dinitrotoluene	0.318	0.303	4.7	105	0.00
52	C	Acenaphthene	1.067	1.000	6.3	106	0.00
53		3-Nitroaniline	0.330	0.335	-1.5	107	0.00
54	P	2,4-Dinitrophenol	0.178	0.182	-2.2	110	0.00
55		Dibenzofuran	1.713	1.568	8.5	104	0.00
56	P	4-Nitrophenol	0.239	0.247	-3.3	108	0.00
57		2,4-Dinitrotoluene	0.445	0.433	2.7	107	0.00
58		Fluorene	1.384	1.282	7.4	106	0.00
59		2,3,4,6-Tetrachlorophenol	0.365	0.350	4.1	107	0.00
60		Diethylphthalate	1.470	1.384	5.9	108	0.00
61		4-Chlorophenyl-phenylether	0.677	0.623	8.0	106	0.00
62		4-Nitroaniline	0.299	0.316	-5.7	110	0.00
63		Azobenzene	1.349	1.288	4.5	107	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00
65		4,6-Dinitro-2-methylphenol	0.131	0.128	2.3	110	0.00
66	c	n-Nitrosodiphenylamine	0.620	0.571	7.9	107	0.00
67		4-Bromophenyl-phenylether	0.226	0.202	10.6	107	0.00
68		Hexachlorobenzene	0.274	0.247	9.9	107	0.00
69		Atrazine	0.225	0.208	7.6	108	0.00
70	C	Pentachlorophenol	0.142	0.139	2.1	113	0.00
71		Phenanthrene	1.105	1.011	8.5	107	0.00
72		Anthracene	1.119	1.033	7.7	108	0.01
73		Carbazole	1.038	0.979	5.7	110	0.00
74		Di-n-butylphthalate	1.285	1.173	8.7	103	0.00
75	C	Fluoranthene	1.281	1.164	9.1	107	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	111	0.00
77		Benzidine	0.619	0.692	-11.8	118	0.00
78		Pyrene	1.249	1.132	9.4	107	0.00
79	S	Terphenyl-d14	1.116	0.873	21.8	89	0.00
80		Butylbenzylphthalate	0.572	0.534	6.6	106	0.00
81		Benzo(a)anthracene	1.279	1.175	8.1	107	0.00
82		3,3'-Dichlorobenzidine	0.508	0.478	5.9	108	0.00
83		Chrysene	1.212	1.104	8.9	108	0.00
84		Bis(2-ethylhexyl)phthalate	0.820	0.759	7.4	106	0.00
85	c	Di-n-octyl phthalate	1.445	1.324	8.4	107	0.00
86	I	Perylene-d12	1.000	1.000	0.0	113	0.02
87		Indeno(1,2,3-cd)pyrene	1.459	1.371	6.0	110	0.01
88		Benzo(b)fluoranthene	1.145	1.051	8.2	106	0.00
89		Benzo(k)fluoranthene	1.165	1.050	9.9	107	0.02
90	C	Benzo(a)pyrene	1.118	1.032	7.7	109	0.02
91		Dibenzo(a,h)anthracene	1.188	1.108	6.7	110	0.02
92		Benzo(g,h,i)perylene	1.179	1.101	6.6	110	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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	103	-0.02
2		1,4-Dioxane	40.000	35.338	11.7	97	0.00
3		Pyridine	40.000	40.092	-0.2	107	-0.01
4		n-Nitrosodimethylamine	40.000	41.411	-3.5	110	-0.01
5	S	2-Fluorophenol	80.000	73.239	8.5	97	-0.01
6		Aniline	40.000	40.192	-0.5	106	-0.02
7	S	Phenol-d6	80.000	76.488	4.4	101	-0.01
8		2-Chlorophenol	40.000	39.034	2.4	104	-0.02
9		Benzaldehyde	40.000	48.599	-21.5	131	-0.02
10	C	Phenol	40.000	39.895	0.3	106	-0.02
11		bis(2-Chloroethyl)ether	40.000	39.368	1.6	106	-0.02
12		1,3-Dichlorobenzene	40.000	37.402	6.5	103	-0.01
13	C	1,4-Dichlorobenzene	40.000	37.417	6.5	103	-0.01
14		1,2-Dichlorobenzene	40.000	37.071	7.3	102	-0.02
15		Benzyl Alcohol	40.000	40.859	-2.1	110	-0.02
16		2,2'-oxybis(1-Chloropropane	40.000	38.927	2.7	107	0.00
17		2-Methylphenol	40.000	39.981	0.0	106	-0.02
18		Hexachloroethane	40.000	37.151	7.1	101	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	40.009	-0.0	107	-0.01
20		3+4-Methylphenols	40.000	39.466	1.3	106	-0.02
21	I	Naphthalene-d8	20.000	20.000	0.0	108	-0.01
22		Acetophenone	40.000	38.549	3.6	107	-0.01
23	S	Nitrobenzene-d5	80.000	67.150	16.1	92	-0.01
24		Nitrobenzene	40.000	39.258	1.9	107	-0.01
25		Isophorone	40.000	39.109	2.2	108	-0.01
26	C	2-Nitrophenol	40.000	39.558	1.1	106	-0.01
27		2,4-Dimethylphenol	40.000	38.761	3.1	106	-0.02
28		bis(2-Chloroethoxy)methane	40.000	38.351	4.1	106	-0.02
29	C	2,4-Dichlorophenol	40.000	39.046	2.4	107	-0.01
30		1,2,4-Trichlorobenzene	40.000	36.514	8.7	104	-0.01
31		Naphthalene	40.000	37.089	7.3	103	-0.02
32		Benzoic acid	40.000	40.420	-1.1	111	-0.01
33		4-Chloroaniline	40.000	39.581	1.0	107	-0.01
34	C	Hexachlorobutadiene	40.000	36.314	9.2	101	-0.01
35		Caprolactam	40.000	41.229	-3.1	110	-0.01
36	C	4-Chloro-3-methylphenol	40.000	40.474	-1.2	109	-0.01
37		2-Methylnaphthalene	40.000	38.430	3.9	106	-0.01
38		1-Methylnaphthalene	40.000	37.674	5.8	105	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	108	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.136	7.2	106	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.177	4.6	106	-0.01
42	S	2,4,6-Tribromophenol	80.000	73.160	8.6	102	0.00
43	C	2,4,6-Trichlorophenol	40.000	38.812	3.0	107	-0.01
44		2,4,5-Trichlorophenol	40.000	39.064	2.3	106	0.00
45	S	2-Fluorobiphenyl	80.000	62.434	22.0	90	-0.01
46		1,1'-Biphenyl	40.000	37.502	6.2	106	0.00
47		2-Chloronaphthalene	40.000	36.886	7.8	104	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.813	-2.0	110	0.00
49		Acenaphthylene	40.000	37.274	6.8	106	0.00
50		Dimethylphthalate	40.000	37.185	7.0	106	0.00
51		2,6-Dinitrotoluene	40.000	38.111	4.7	105	0.00
52	C	Acenaphthene	40.000	37.472	6.3	106	0.00
53		3-Nitroaniline	40.000	40.626	-1.6	107	0.00
54	P	2,4-Dinitrophenol	40.000	38.197	4.5	110	0.00
55		Dibenzofuran	40.000	36.605	8.5	104	0.00
56	P	4-Nitrophenol	40.000	38.363	4.1	108	0.00
57		2,4-Dinitrotoluene	40.000	38.936	2.7	107	0.00
58		Fluorene	40.000	37.043	7.4	106	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.401	4.0	107	0.00
60		Diethylphthalate	40.000	37.642	5.9	108	0.00
61		4-Chlorophenyl-phenylether	40.000	36.814	8.0	106	0.00
62		4-Nitroaniline	40.000	42.233	-5.6	110	0.00
63		Azobenzene	40.000	38.217	4.5	107	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	112	0.00
65		4,6-Dinitro-2-methylphenol	40.000	38.956	2.6	110	0.00
66	c	n-Nitrosodiphenylamine	40.000	36.846	7.9	107	0.00
67		4-Bromophenyl-phenylether	40.000	35.890	10.3	107	0.00
68		Hexachlorobenzene	40.000	36.182	9.5	107	0.00
69		Atrazine	40.000	37.108	7.2	108	0.00
70	C	Pentachlorophenol	40.000	39.247	1.9	113	0.00
71		Phenanthrene	40.000	36.595	8.5	107	0.00
72		Anthracene	40.000	36.903	7.7	108	0.01
73		Carbazole	40.000	37.755	5.6	110	0.00
74		Di-n-butylphthalate	40.000	36.500	8.8	103	0.00
75	C	Fluoranthene	40.000	36.337	9.2	107	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	111	0.00
77		Benzidine	40.000	44.696	-11.7	118	0.00
78		Pyrene	40.000	36.241	9.4	107	0.00
79	S	Terphenyl-d14	80.000	62.551	21.8	89	0.00
80		Butylbenzylphthalate	40.000	37.347	6.6	106	0.00
81		Benzo(a)anthracene	40.000	36.741	8.1	107	0.00
82		3,3'-Dichlorobenzidine	40.000	37.613	6.0	108	0.00
83		Chrysene	40.000	36.421	8.9	108	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	37.041	7.4	106	0.00
85	c	Di-n-octyl phthalate	40.000	36.654	8.4	107	0.00
86	I	Perylene-d12	20.000	20.000	0.0	113	0.02
87		Indeno(1,2,3-cd)pyrene	40.000	37.578	6.1	110	0.01
88		Benzo(b)fluoranthene	40.000	36.735	8.2	106	0.00
89		Benzo(k)fluoranthene	40.000	36.032	9.9	107	0.02
90	C	Benzo(a)pyrene	40.000	36.932	7.7	109	0.02
91		Dibenzo(a,h)anthracene	40.000	37.321	6.7	110	0.02
92		Benzo(g,h,i)perylene	40.000	37.385	6.5	110	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024868.D
Acq On : 06 Jun 2025 17:09
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP060625

Quant Time: Jun 06 17:28:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

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

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

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

Raw Data: **BF142772.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG No.: Q2333

Instrument ID: BNA_F Calibration Date/Time: 06/18/2025 11:48

Lab File ID: BF142772.D Init. Calib. Date(s): 06/10/2025 06/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:54 20:19

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.174	1.170		-0.3	
Phenol-d6	1.382	1.385		0.2	
Nitrobenzene-d5	0.365	0.356		-2.5	
2-Fluorobiphenyl	1.505	1.389		-7.7	
Acenaphthylene	1.929	1.853		-3.9	
Acenaphthene	1.196	1.138		-4.8	20.0
Fluorene	1.345	1.278		-5.0	
2,4,6-Tribromophenol	0.219	0.206		-5.9	
Phenanthrene	1.071	1.018		-4.9	
Anthracene	1.108	1.043		-5.9	
Fluoranthene	1.019	1.030		1.1	20.0
Pyrene	1.859	1.665		-10.4	
Terphenyl-d14	1.456	1.259		-13.5	
Benzo(a)anthracene	1.325	1.285		-3.0	
Chrysene	1.224	1.148		-6.2	
Benzo(b)fluoranthene	1.178	1.205		2.3	
Benzo(k)fluoranthene	1.143	1.050		-8.1	
Benzo(a)pyrene	1.120	1.081		-3.5	20.0
Indeno(1,2,3-cd)pyrene	1.482	1.312		-11.5	
Dibenzo(a,h)anthracene	1.210	1.075		-11.2	
Benzo(g,h,i)perylene	1.203	1.047		-13.0	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	81687	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	316375	20.000	ng	-0.01
39) Acenaphthene-d10	9.928	164	173519	20.000	ng	-0.01
64) Phenanthrene-d10	11.416	188	303610	20.000	ng	0.00
76) Chrysene-d12	14.063	240	189006	20.000	ng	0.00
86) Perylene-d12	15.551	264	179702	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	382415	79.732	ng	0.00
7) Phenol-d6	6.516	99	452395	80.148	ng	0.00
23) Nitrobenzene-d5	7.451	82	450060	77.853	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	143312	75.358	ng	-0.01
45) 2-Fluorobiphenyl	9.245	172	964409	73.840	ng	-0.01
79) Terphenyl-d14	13.004	244	951931	69.173	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.652	88	76274	40.184	ng	99
3) Pyridine	3.416	79	192168	40.377	ng	96
4) n-Nitrosodimethylamine	3.369	42	102617	42.141	ng	97
6) Aniline	6.545	93	306632	40.588	ng	96
8) 2-Chlorophenol	6.669	128	205253	39.160	ng	99
9) Benzaldehyde	6.434	77	126759	36.264	ng	99
10) Phenol	6.528	94	254999	40.643	ng	99
11) bis(2-Chloroethyl)ether	6.622	93	181549	38.740	ng	99
12) 1,3-Dichlorobenzene	6.828	146	231109	38.636	ng	99
13) 1,4-Dichlorobenzene	6.904	146	232660	38.487	ng	99
14) 1,2-Dichlorobenzene	7.057	146	221491	38.223	ng	100
15) Benzyl Alcohol	7.028	79	168902	39.590	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	295336	40.028	ng	99
17) 2-Methylphenol	7.139	107	159701	39.745	ng	99
18) Hexachloroethane	7.398	117	81631	37.680	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	136356	37.946	ng	98
20) 3+4-Methylphenols	7.292	107	202189	39.913	ng	96
22) Acetophenone	7.292	105	269700	38.323	ng	95
24) Nitrobenzene	7.469	77	203393	39.642	ng	97
25) Isophorone	7.710	82	369909	37.792	ng	99
26) 2-Nitrophenol	7.786	139	107875	37.674	ng	99
27) 2,4-Dimethylphenol	7.822	122	189290	38.828	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	229379	37.746	ng	100
29) 2,4-Dichlorophenol	8.028	162	173836	38.638	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	187650	37.745	ng	99
31) Naphthalene	8.192	128	604648	38.644	ng	100
32) Benzoic acid	7.934	122	102285	37.255	ng	99
33) 4-Chloroaniline	8.239	127	245609	39.095	ng	98
34) Hexachlorobutadiene	8.304	225	116472	36.764	ng	99
35) Caprolactam	8.610	113	50481	41.567	ng	92
36) 4-Chloro-3-methylphenol	8.722	107	178949	38.252	ng	99
37) 2-Methylnaphthalene	8.881	142	377771	38.145	ng	99
38) 1-Methylnaphthalene	8.981	142	388402	37.858	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	189349	37.703	ng	99
41) Hexachlorocyclopentadiene	9.033	237	112347	34.854	ng	98
43) 2,4,6-Trichlorophenol	9.163	196	122904	37.806	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

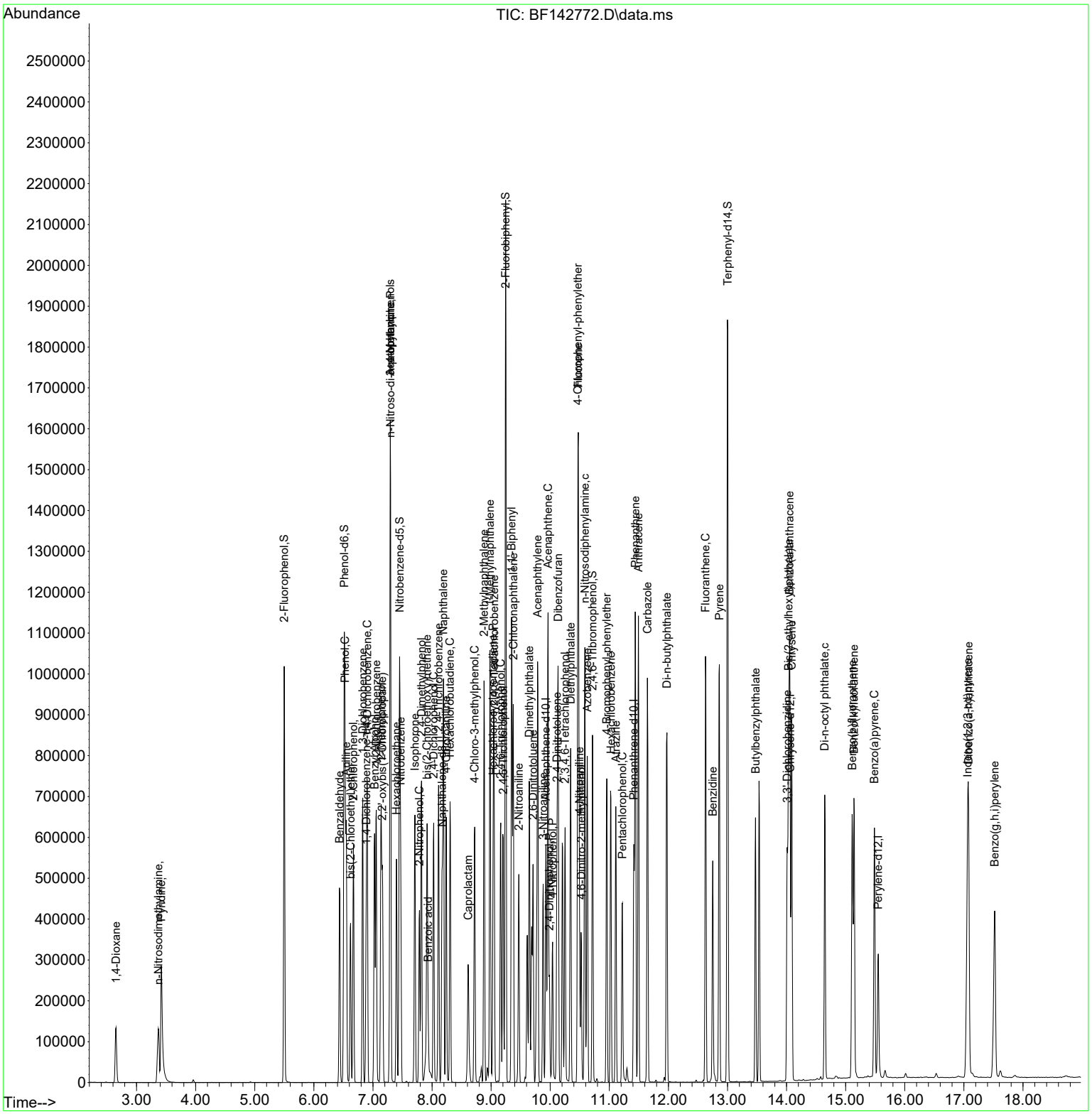
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	133777	38.099	ng	99
46) 1,1'-Biphenyl	9.345	154	513826	38.135	ng	99
47) 2-Chloronaphthalene	9.375	162	378733	38.153	ng	99
48) 2-Nitroaniline	9.469	65	112388	39.807	ng	99
49) Acenaphthylene	9.786	152	643197	38.428	ng	100
50) Dimethylphthalate	9.645	163	441729	38.122	ng	100
51) 2,6-Dinitrotoluene	9.710	165	96052	38.355	ng	94
52) Acenaphthene	9.963	154	394938	38.057	ng	99
53) 3-Nitroaniline	9.880	138	107851	39.705	ng	99
54) 2,4-Dinitrophenol	9.986	184	50790	37.024	ng	92
55) Dibenzofuran	10.133	168	564917	38.228	ng	99
56) 4-Nitrophenol	10.039	139	78789	42.767	ng	99
57) 2,4-Dinitrotoluene	10.116	165	130019	39.267	ng	98
58) Fluorene	10.475	166	443483	38.003	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	111545	37.761	ng	100
60) Diethylphthalate	10.345	149	433566	37.735	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	209215	36.710	ng	99
62) 4-Nitroaniline	10.492	138	107060	44.056	ng	98
63) Azobenzene	10.627	77	381154	37.984	ng	99
65) 4,6-Dinitro-2-methylph...	10.527	198	71742	37.734	ng	99
66) n-Nitrosodiphenylamine	10.586	169	383267	36.725	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	128466	35.847	ng	98
68) Hexachlorobenzene	11.027	284	143611	36.101	ng	97
69) Atrazine	11.110	200	115638	41.561	ng	99
70) Pentachlorophenol	11.222	266	79210	37.985	ng	99
71) Phenanthrene	11.439	178	618197	38.007	ng	100
72) Anthracene	11.492	178	633056	37.623	ng	99
73) Carbazole	11.645	167	570091	40.471	ng	100
74) Di-n-butylphthalate	11.974	149	638393	40.587	ng	100
75) Fluoranthene	12.627	202	625532	40.444	ng	99
77) Benzidine	12.751	184	296841	44.099	ng	99
78) Pyrene	12.863	202	629275	35.827	ng	99
80) Butylbenzylphthalate	13.474	149	216258	41.636	ng	98
81) Benzo(a)anthracene	14.051	228	485853	38.791	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	161079	39.882	ng	98
83) Chrysene	14.086	228	434022	37.533	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	288727	37.041	ng	98
85) Di-n-octyl phthalate	14.645	149	482742	32.280	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	471417	35.400	ng	99
88) Benzo(b)fluoranthene	15.110	252	432974	40.919	ng	99
89) Benzo(k)fluoranthene	15.139	252	377376	36.758	ng	99
90) Benzo(a)pyrene	15.486	252	388443	38.611	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	386372	35.533	ng	100
92) Benzo(g,h,i)perylene	17.521	276	376166	34.789	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration



Sample Results: **BF142772.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
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Instrument :
BNA_F
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SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
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	111	0.00
2		1,4-Dioxane	0.465	0.467	-0.4	114	0.00
3		Pyridine	1.165	1.176	-0.9	112	-0.01
4		n-Nitrosodimethylamine	0.596	0.628	-5.4	117	-0.01
5	S	2-Fluorophenol	1.174	1.170	0.3	111	0.00
6		Aniline	1.850	1.877	-1.5	112	-0.01
7	S	Phenol-d6	1.382	1.385	-0.2	111	0.00
8		2-Chlorophenol	1.283	1.256	2.1	108	0.00
9		Benzaldehyde	0.856	0.776	9.3	102	-0.01
10	C	Phenol	1.536	1.561	-1.6	113	0.00
11		bis(2-Chloroethyl)ether	1.147	1.111	3.1	109	0.00
12		1,3-Dichlorobenzene	1.465	1.415	3.4	108	0.00
13	C	1,4-Dichlorobenzene	1.480	1.424	3.8	108	0.00
14		1,2-Dichlorobenzene	1.419	1.356	4.4	107	0.00
15		Benzyl Alcohol	1.045	1.034	1.1	108	0.00
16		2,2'-oxybis(1-Chloropropane	1.806	1.808	-0.1	111	-0.01
17		2-Methylphenol	0.984	0.978	0.6	109	0.00
18		Hexachloroethane	0.530	0.500	5.7	105	0.00
19	P	n-Nitroso-di-n-propylamine	0.880	0.835	5.1	105	-0.01
20		3+4-Methylphenols	1.240	1.238	0.2	110	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	108	-0.01
22		Acetophenone	0.445	0.426	4.3	106	-0.01
23	S	Nitrobenzene-d5	0.365	0.356	2.5	107	0.00
24		Nitrobenzene	0.324	0.321	0.9	108	-0.01
25		Isophorone	0.619	0.585	5.5	105	0.00
26	C	2-Nitrophenol	0.181	0.170	6.1	102	0.00
27		2,4-Dimethylphenol	0.308	0.299	2.9	106	0.00
28		bis(2-Chloroethoxy)methane	0.384	0.363	5.5	104	-0.01
29	C	2,4-Dichlorophenol	0.284	0.275	3.2	106	0.00
30		1,2,4-Trichlorobenzene	0.314	0.297	5.4	104	-0.01
31		Naphthalene	0.989	0.956	3.3	106	-0.01
32		Benzoic acid	0.174	0.162	6.9	100	-0.01
33		4-Chloroaniline	0.397	0.388	2.3	105	-0.01
34	C	Hexachlorobutadiene	0.200	0.184	8.0	101	-0.01
35		Caprolactam	0.077	0.080	-3.9	115	-0.01
36	C	4-Chloro-3-methylphenol	0.296	0.283	4.4	106	0.00
37		2-Methylnaphthalene	0.626	0.597	4.6	104	-0.01
38		1-Methylnaphthalene	0.649	0.614	5.4	105	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	106	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.579	0.546	5.7	102	0.00
41	P	Hexachlorocyclopentadiene	0.372	0.324	12.9	92	-0.01
42	S	2,4,6-Tribromophenol	0.219	0.206	5.9	103	-0.01
43	C	2,4,6-Trichlorophenol	0.375	0.354	5.6	101	0.00
44		2,4,5-Trichlorophenol	0.405	0.385	4.9	102	0.00
45	S	2-Fluorobiphenyl	1.505	1.389	7.7	102	-0.01
46		1,1'-Biphenyl	1.553	1.481	4.6	104	-0.01
47		2-Chloronaphthalene	1.144	1.091	4.6	104	0.00

Sample Results: **BF142772.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
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	0.325	0.324	0.3	106	0.00
49		Acenaphthylene	1.929	1.853	3.9	105	-0.01
50		Dimethylphthalate	1.336	1.273	4.7	105	-0.01
51		2,6-Dinitrotoluene	0.289	0.277	4.2	103	-0.01
52	C	Acenaphthene	1.196	1.138	4.8	103	0.00
53		3-Nitroaniline	0.313	0.311	0.6	107	0.00
54	P	2,4-Dinitrophenol	0.158	0.146	7.6	99	0.00
55		Dibenzofuran	1.703	1.628	4.4	105	0.00
56	P	4-Nitrophenol	0.212	0.227	-7.1	115	0.00
57		2,4-Dinitrotoluene	0.382	0.375	1.8	106	0.00
58		Fluorene	1.345	1.278	5.0	106	-0.01
59		2,3,4,6-Tetrachlorophenol	0.340	0.321	5.6	104	0.00
60		Diethylphthalate	1.324	1.249	5.7	106	0.00
61		4-Chlorophenyl-phenylether	0.657	0.603	8.2	101	0.00
62		4-Nitroaniline	0.280	0.308	-10.0	122	0.00
63		Azobenzene	1.157	1.098	5.1	105	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00
65		4,6-Dinitro-2-methylphenol	0.125	0.118	5.6	107	0.00
66	c	n-Nitrosodiphenylamine	0.687	0.631	8.2	106	0.00
67		4-Bromophenyl-phenylether	0.236	0.212	10.2	104	-0.01
68		Hexachlorobenzene	0.262	0.237	9.5	105	0.00
69		Atrazine	0.183	0.190	-3.8	120	-0.01
70	C	Pentachlorophenol	0.137	0.130	5.1	106	0.00
71		Phenanthrene	1.071	1.018	4.9	111	-0.01
72		Anthracene	1.108	1.043	5.9	111	-0.01
73		Carbazole	0.928	0.939	-1.2	118	-0.01
74		Di-n-butylphthalate	1.036	1.051	-1.4	118	0.00
75	C	Fluoranthene	1.019	1.030	-1.1	121	-0.01
76	I	Chrysene-d12	1.000	1.000	0.0	142	0.00
77		Benzidine	0.712	0.785	-10.3	139	0.00
78		Pyrene	1.859	1.665	10.4	125	0.00
79	S	Terphenyl-d14	1.456	1.259	13.5	122	0.00
80		Butylbenzylphthalate	0.550	0.572	-4.0	140	0.00
81		Benzo(a)anthracene	1.325	1.285	3.0	135	0.00
82		3,3'-Dichlorobenzidine	0.427	0.426	0.2	137	-0.01
83		Chrysene	1.224	1.148	6.2	139	-0.01
84		Bis(2-ethylhexyl)phthalate	0.825	0.764	7.4	121	0.00
85	c	Di-n-octyl phthalate	1.582	1.277	19.3	108	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	122	-0.01
87		Indeno(1,2,3-cd)pyrene	1.482	1.312	11.5	107	-0.02
88		Benzo(b)fluoranthene	1.178	1.205	-2.3	126	-0.01
89		Benzo(k)fluoranthene	1.143	1.050	8.1	119	-0.01
90	C	Benzo(a)pyrene	1.120	1.081	3.5	119	-0.02
91		Dibenzo(a,h)anthracene	1.210	1.075	11.2	106	-0.02
92		Benzo(g,h,i)perylene	1.203	1.047	13.0	105	-0.02

Sample Results: **BF142772.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
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: **BF142772.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
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Instrument :
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Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
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	111	0.00
2		1,4-Dioxane	40.000	40.184	-0.5	114	0.00
3		Pyridine	40.000	40.377	-0.9	112	-0.01
4		n-Nitrosodimethylamine	40.000	42.141	-5.4	117	-0.01
5	S	2-Fluorophenol	80.000	79.732	0.3	111	0.00
6		Aniline	40.000	40.588	-1.5	112	-0.01
7	S	Phenol-d6	80.000	80.148	-0.2	111	0.00
8		2-Chlorophenol	40.000	39.160	2.1	108	0.00
9		Benzaldehyde	40.000	36.264	9.3	102	-0.01
10	C	Phenol	40.000	40.643	-1.6	113	0.00
11		bis(2-Chloroethyl)ether	40.000	38.740	3.1	109	0.00
12		1,3-Dichlorobenzene	40.000	38.636	3.4	108	0.00
13	C	1,4-Dichlorobenzene	40.000	38.487	3.8	108	0.00
14		1,2-Dichlorobenzene	40.000	38.223	4.4	107	0.00
15		Benzyl Alcohol	40.000	39.590	1.0	108	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.028	-0.1	111	-0.01
17		2-Methylphenol	40.000	39.745	0.6	109	0.00
18		Hexachloroethane	40.000	37.680	5.8	105	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.946	5.1	105	-0.01
20		3+4-Methylphenols	40.000	39.913	0.2	110	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	108	-0.01
22		Acetophenone	40.000	38.323	4.2	106	-0.01
23	S	Nitrobenzene-d5	80.000	77.853	2.7	107	0.00
24		Nitrobenzene	40.000	39.642	0.9	108	-0.01
25		Isophorone	40.000	37.792	5.5	105	0.00
26	C	2-Nitrophenol	40.000	37.674	5.8	102	0.00
27		2,4-Dimethylphenol	40.000	38.828	2.9	106	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.746	5.6	104	-0.01
29	C	2,4-Dichlorophenol	40.000	38.638	3.4	106	0.00
30		1,2,4-Trichlorobenzene	40.000	37.745	5.6	104	-0.01
31		Naphthalene	40.000	38.644	3.4	106	-0.01
32		Benzoic acid	40.000	37.255	6.9	100	-0.01
33		4-Chloroaniline	40.000	39.095	2.3	105	-0.01
34	C	Hexachlorobutadiene	40.000	36.764	8.1	101	-0.01
35		Caprolactam	40.000	41.567	-3.9	115	-0.01
36	C	4-Chloro-3-methylphenol	40.000	38.252	4.4	106	0.00
37		2-Methylnaphthalene	40.000	38.145	4.6	104	-0.01
38		1-Methylnaphthalene	40.000	37.858	5.4	105	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	106	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	37.703	5.7	102	0.00
41	P	Hexachlorocyclopentadiene	40.000	34.854	12.9	92	-0.01
42	S	2,4,6-Tribromophenol	80.000	75.358	5.8	103	-0.01
43	C	2,4,6-Trichlorophenol	40.000	37.806	5.5	101	0.00
44		2,4,5-Trichlorophenol	40.000	38.099	4.8	102	0.00
45	S	2-Fluorobiphenyl	80.000	73.840	7.7	102	-0.01
46		1,1'-Biphenyl	40.000	38.135	4.7	104	-0.01
47		2-Chloronaphthalene	40.000	38.153	4.6	104	0.00

Sample Results: **BF142772.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
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	39.807	0.5	106	0.00
49		Acenaphthylene	40.000	38.428	3.9	105	-0.01
50		Dimethylphthalate	40.000	38.122	4.7	105	-0.01
51		2,6-Dinitrotoluene	40.000	38.355	4.1	103	-0.01
52	C	Acenaphthene	40.000	38.057	4.9	103	0.00
53		3-Nitroaniline	40.000	39.705	0.7	107	0.00
54	P	2,4-Dinitrophenol	40.000	37.024	7.4	99	0.00
55		Dibenzofuran	40.000	38.228	4.4	105	0.00
56	P	4-Nitrophenol	40.000	42.767	-6.9	115	0.00
57		2,4-Dinitrotoluene	40.000	39.267	1.8	106	0.00
58		Fluorene	40.000	38.003	5.0	106	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	37.761	5.6	104	0.00
60		Diethylphthalate	40.000	37.735	5.7	106	0.00
61		4-Chlorophenyl-phenylether	40.000	36.710	8.2	101	0.00
62		4-Nitroaniline	40.000	44.056	-10.1	122	0.00
63		Azobenzene	40.000	37.984	5.0	105	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	113	0.00
65		4,6-Dinitro-2-methylphenol	40.000	37.734	5.7	107	0.00
66	c	n-Nitrosodiphenylamine	40.000	36.725	8.2	106	0.00
67		4-Bromophenyl-phenylether	40.000	35.847	10.4	104	-0.01
68		Hexachlorobenzene	40.000	36.101	9.7	105	0.00
69		Atrazine	40.000	41.561	-3.9	120	-0.01
70	C	Pentachlorophenol	40.000	37.985	5.0	106	0.00
71		Phenanthrene	40.000	38.007	5.0	111	-0.01
72		Anthracene	40.000	37.623	5.9	111	-0.01
73		Carbazole	40.000	40.471	-1.2	118	-0.01
74		Di-n-butylphthalate	40.000	40.587	-1.5	118	0.00
75	C	Fluoranthene	40.000	40.444	-1.1	121	-0.01
76	I	Chrysene-d12	20.000	20.000	0.0	142	0.00
77		Benzidine	40.000	44.099	-10.2	139	0.00
78		Pyrene	40.000	35.827	10.4	125	0.00
79	S	Terphenyl-d14	80.000	69.173	13.5	122	0.00
80		Butylbenzylphthalate	40.000	41.636	-4.1	140	0.00
81		Benzo(a)anthracene	40.000	38.791	3.0	135	0.00
82		3,3'-Dichlorobenzidine	40.000	39.882	0.3	137	-0.01
83		Chrysene	40.000	37.533	6.2	139	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	37.041	7.4	121	0.00
85	c	Di-n-octyl phthalate	40.000	32.280	19.3	108	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	122	-0.01
87		Indeno(1,2,3-cd)pyrene	40.000	35.400	11.5	107	-0.02
88		Benzo(b)fluoranthene	40.000	40.919	-2.3	126	-0.01
89		Benzo(k)fluoranthene	40.000	36.758	8.1	119	-0.01
90	C	Benzo(a)pyrene	40.000	38.611	3.5	119	-0.02
91		Dibenzo(a,h)anthracene	40.000	35.533	11.2	106	-0.02
92		Benzo(g,h,i)perylene	40.000	34.789	13.0	105	-0.02

Sample Results: **BF142772.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142772.D
Acq On : 18 Jun 2025 11:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 12:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
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: LIRO01

Lab Code: CHEM Case No.: Q2333 SAS No.: Q2333 SDG No.: Q2333

Instrument ID: BNA_P Calibration Date/Time: 06/18/2025 09:55

Lab File ID: BP024987.D Init. Calib. Date(s): 06/06/2025 06/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 15:18

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.198	1.233		2.9	
Phenol-d6	1.585	1.551		-2.1	
Nitrobenzene-d5	0.412	0.408		-1.0	
2-Fluorobiphenyl	1.485	1.412		-4.9	
Acenaphthylene	1.863	1.810		-2.8	
Acenaphthene	1.067	1.036		-2.9	20.0
Fluorene	1.384	1.336		-3.5	
2,4,6-Tribromophenol	0.277	0.268		-3.2	
Phenanthrene	1.105	1.039		-6.0	
Anthracene	1.119	1.072		-4.2	
Fluoranthene	1.281	1.220		-4.8	20.0
Pyrene	1.249	1.224		-2.0	
Terphenyl-d14	1.116	1.080		-3.2	
Benzo(a)anthracene	1.279	1.252		-2.1	
Chrysene	1.212	1.156		-4.6	
Benzo(b)fluoranthene	1.145	1.079		-5.8	
Benzo(k)fluoranthene	1.165	1.122		-3.7	
Benzo(a)pyrene	1.118	1.070		-4.3	20.0
Indeno(1,2,3-cd)pyrene	1.459	1.404		-3.8	
Dibenzo(a,h)anthracene	1.188	1.130		-4.9	
Benzo(g,h,i)perylene	1.179	1.124		-4.7	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.607	152	287169	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	1150636	20.000	ng	0.00
39) Acenaphthene-d10	14.260	164	726300	20.000	ng	0.01
64) Phenanthrene-d10	17.060	188	1437446	20.000	ng	0.00
76) Chrysene-d12	21.501	240	1478427	20.000	ng	0.02
86) Perylene-d12	24.765	264	1736638	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.237	112	1416012	82.307	ng	0.00
7) Phenol-d6	6.819	99	1782118	78.291	ng	0.00
23) Nitrobenzene-d5	8.760	82	1877055	79.271	ng	0.00
42) 2,4,6-Tribromophenol	15.783	330	779089	77.587	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	4102722	76.096	ng	0.00
79) Terphenyl-d14	19.789	244	6387341	77.432	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.166	88	296933	39.225	ng	99
3) Pyridine	3.566	79	762794	41.900	ng	100
4) n-Nitrosodimethylamine	3.478	42	280949	37.748	ng	94
6) Aniline	6.949	93	1163079	40.039	ng	99
8) 2-Chlorophenol	7.184	128	778162	39.900	ng	99
9) Benzaldehyde	6.766	77	519148	39.569	ng	99
10) Phenol	6.843	94	913464	38.927	ng	98
11) bis(2-Chloroethyl)ether	7.043	93	728998	39.499	ng	100
12) 1,3-Dichlorobenzene	7.496	146	843901	38.788	ng	98
13) 1,4-Dichlorobenzene	7.643	146	854699	38.933	ng	100
14) 1,2-Dichlorobenzene	7.954	146	808904	37.524	ng	99
15) Benzyl Alcohol	7.860	79	675792	38.684	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.125	45	935957	38.745	ng	100
17) 2-Methylphenol	8.072	107	627030	38.265	ng	97
18) Hexachloroethane	8.660	117	320123	38.732	ng	96
19) n-Nitroso-di-n-propyla...	8.407	70	580790	37.533	ng	99
20) 3+4-Methylphenols	8.402	107	834340	37.320	ng	96
22) Acetophenone	8.425	105	1135503	39.059	ng	99
24) Nitrobenzene	8.801	77	829704	39.442	ng	100
25) Isophorone	9.319	82	1624881	39.594	ng	100
26) 2-Nitrophenol	9.507	139	434682	41.880	ng	96
27) 2,4-Dimethylphenol	9.578	122	703082	39.580	ng	98
28) bis(2-Chloroethoxy)met...	9.796	93	969188	39.591	ng	99
29) 2,4-Dichlorophenol	10.060	162	691054	40.545	ng	100
30) 1,2,4-Trichlorobenzene	10.243	180	738094	38.394	ng	97
31) Naphthalene	10.425	128	2288955	38.818	ng	99
32) Benzoic acid	9.772	122	471123	39.247	ng	99
33) 4-Chloroaniline	10.554	127	1002825	40.593	ng	99
34) Hexachlorobutadiene	10.701	225	453767	39.163	ng	100
35) Caprolactam	11.366	113	259415	41.348	ng	94
36) 4-Chloro-3-methylphenol	11.713	107	775507	39.447	ng	99
37) 2-Methylnaphthalene	12.048	142	1448533	38.727	ng	99
38) 1-Methylnaphthalene	12.266	142	1541282	38.543	ng	97
40) 1,2,4,5-Tetrachloroben...	12.425	216	807882	39.200	ng	99
41) Hexachlorocyclopentadiene	12.395	237	454154	36.129	ng	98
43) 2,4,6-Trichlorophenol	12.690	196	548969	39.664	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

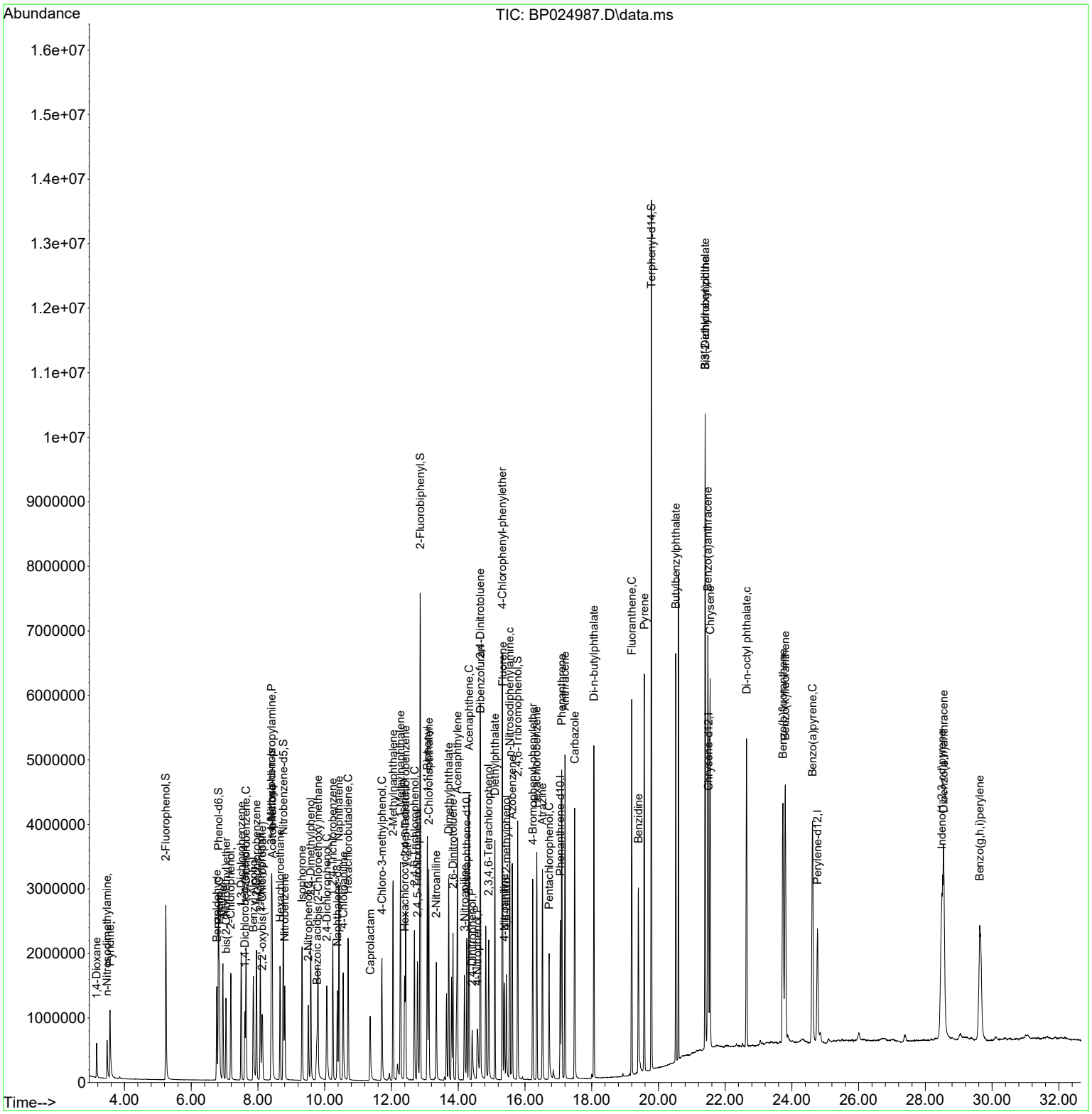
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.778	196	590474	39.837	ng		99
46) 1,1'-Biphenyl	13.078	154	2063172	39.089	ng		99
47) 2-Chloronaphthalene	13.119	162	1584646	39.062	ng		100
48) 2-Nitroaniline	13.342	65	514508	41.254	ng		98
49) Acenaphthylene	13.978	152	2628739	38.863	ng		100
50) Dimethylphthalate	13.713	163	2058352	38.418	ng		99
51) 2,6-Dinitrotoluene	13.842	165	462023	40.001	ng		99
52) Acenaphthene	14.325	154	1505394	38.839	ng		99
53) 3-Nitroaniline	14.189	138	505913	42.207	ng		98
54) 2,4-Dinitrophenol	14.419	184	260438	37.783	ng		94
55) Dibenzofuran	14.666	168	2388234	38.386	ng		100
56) 4-Nitrophenol	14.578	139	399872	42.151	ng		94
57) 2,4-Dinitrotoluene	14.660	165	649385	40.192	ng		95
58) Fluorene	15.331	166	1941124	38.621	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.913	232	530247	40.039	ng		98
60) Diethylphthalate	15.101	149	2119727	39.698	ng		99
61) 4-Chlorophenyl-phenyle...	15.319	204	943787	38.405	ng		95
62) 4-Nitroaniline	15.384	138	476416	43.835	ng		91
63) Azobenzene	15.619	77	1939188	39.598	ng		99
65) 4,6-Dinitro-2-methylph...	15.442	198	371973	39.382	ng		97
66) n-Nitrosodiphenylamine	15.542	169	1708771	38.353	ng		99
67) 4-Bromophenyl-phenylether	16.236	248	611527	37.704	ng		97
68) Hexachlorobenzene	16.354	284	736122	37.438	ng		99
69) Atrazine	16.525	200	637034	39.441	ng		99
70) Pentachlorophenol	16.725	266	417377	41.015	ng		100
71) Phenanthrene	17.101	178	2986389	37.595	ng		99
72) Anthracene	17.201	178	3083108	38.323	ng		99
73) Carbazole	17.489	167	2930446	39.299	ng		100
74) Di-n-butylphthalate	18.066	149	3692511	39.967	ng		100
75) Fluoranthene	19.201	202	3507778	38.099	ng		100
77) Benzidine	19.401	184	2029267	44.318	ng		100
78) Pyrene	19.577	202	3619176	39.184	ng		100
80) Butylbenzylphthalate	20.519	149	1761283	41.630	ng		99
81) Benzo(a)anthracene	21.483	228	3702579	39.157	ng		100
82) 3,3'-Dichlorobenzidine	21.401	252	1475787	39.313	ng		100
83) Chrysene	21.548	228	3418136	38.151	ng		99
84) Bis(2-ethylhexyl)phtha...	21.401	149	2526496	41.680	ng		100
85) Di-n-octyl phthalate	22.642	149	4499784	42.116	ng		100
87) Indeno(1,2,3-cd)pyrene	28.495	276	4877980	38.498	ng	#	92
88) Benzo(b)fluoranthene	23.730	252	3748094	37.712	ng		99
89) Benzo(k)fluoranthene	23.801	252	3896497	38.515	ng		98
90) Benzo(a)pyrene	24.618	252	3716475	38.290	ng		100
91) Dibenzo(a,h)anthracene	28.547	278	3923826	38.044	ng		98
92) Benzo(g,h,i)perylene	29.630	276	3902242	38.133	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



Sample Results: **BP024987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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	114	0.00
2		1,4-Dioxane	0.527	0.517	1.9	119	0.00
3		Pyridine	1.268	1.328	-4.7	124	0.00
4		n-Nitrosodimethylamine	0.518	0.489	5.6	111	0.00
5	S	2-Fluorophenol	1.198	1.233	-2.9	121	0.00
6		Aniline	2.023	2.025	-0.1	117	0.00
7	S	Phenol-d6	1.585	1.551	2.1	115	0.00
8		2-Chlorophenol	1.358	1.355	0.2	118	0.00
9		Benzaldehyde	0.914	0.904	1.1	118	0.00
10	C	Phenol	1.634	1.590	2.7	114	0.00
11		bis(2-Chloroethyl)ether	1.285	1.269	1.2	117	0.00
12		1,3-Dichlorobenzene	1.515	1.469	3.0	118	0.00
13	C	1,4-Dichlorobenzene	1.529	1.488	2.7	118	0.00
14		1,2-Dichlorobenzene	1.501	1.408	6.2	115	0.00
15		Benzyl Alcohol	1.217	1.177	3.3	115	0.00
16		2,2'-oxybis(1-Chloropropane	1.682	1.630	3.1	118	0.00
17		2-Methylphenol	1.141	1.092	4.3	113	0.00
18		Hexachloroethane	0.576	0.557	3.3	117	-0.01
19	P	n-Nitroso-di-n-propylamine	1.078	1.011	6.2	111	0.00
20		3+4-Methylphenols	1.557	1.453	6.7	111	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00
22		Acetophenone	0.505	0.493	2.4	110	0.00
23	S	Nitrobenzene-d5	0.412	0.408	1.0	111	0.00
24		Nitrobenzene	0.366	0.361	1.4	110	0.00
25		Isophorone	0.713	0.706	1.0	111	0.00
26	C	2-Nitrophenol	0.180	0.189	-5.0	115	0.00
27		2,4-Dimethylphenol	0.309	0.306	1.0	111	0.00
28		bis(2-Chloroethoxy)methane	0.426	0.421	1.2	112	0.00
29	C	2,4-Dichlorophenol	0.296	0.300	-1.4	113	0.00
30		1,2,4-Trichlorobenzene	0.334	0.321	3.9	111	0.00
31		Naphthalene	1.025	0.995	2.9	110	0.00
32		Benzoic acid	0.209	0.205	1.9	110	0.01
33		4-Chloroaniline	0.429	0.436	-1.6	112	0.00
34	C	Hexachlorobutadiene	0.201	0.197	2.0	111	0.00
35		Caprolactam	0.109	0.113	-3.7	112	0.02
36	C	4-Chloro-3-methylphenol	0.342	0.337	1.5	108	0.01
37		2-Methylnaphthalene	0.650	0.629	3.2	109	0.00
38		1-Methylnaphthalene	0.695	0.670	3.6	109	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.01
40		1,2,4,5-Tetrachlorobenzene	0.568	0.556	2.1	110	0.00
41	P	Hexachlorocyclopentadiene	0.346	0.313	9.5	99	0.00
42	S	2,4,6-Tribromophenol	0.277	0.268	3.2	107	0.00
43	C	2,4,6-Trichlorophenol	0.381	0.378	0.8	108	0.01
44		2,4,5-Trichlorophenol	0.408	0.406	0.5	107	0.02
45	S	2-Fluorobiphenyl	1.485	1.412	4.9	109	0.00
46		1,1'-Biphenyl	1.453	1.420	2.3	110	0.01
47		2-Chloronaphthalene	1.117	1.091	2.3	109	0.00

Sample Results: **BP024987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.343	0.354	-3.2	109	0.01
49		Acenaphthylene	1.863	1.810	2.8	109	0.01
50		Dimethylphthalate	1.475	1.417	3.9	108	0.00
51		2,6-Dinitrotoluene	0.318	0.318	0.0	109	0.00
52	C	Acenaphthene	1.067	1.036	2.9	109	0.01
53		3-Nitroaniline	0.330	0.348	-5.5	110	0.01
54	P	2,4-Dinitrophenol	0.178	0.179	-0.6	107	0.02
55		Dibenzofuran	1.713	1.644	4.0	108	0.00
56	P	4-Nitrophenol	0.239	0.275	-15.1	119	0.05
57		2,4-Dinitrotoluene	0.445	0.447	-0.4	109	0.02
58		Fluorene	1.384	1.336	3.5	110	0.01
59		2,3,4,6-Tetrachlorophenol	0.365	0.365	0.0	110	0.01
60		Diethylphthalate	1.470	1.459	0.7	112	0.00
61		4-Chlorophenyl-phenylether	0.677	0.650	4.0	109	0.00
62		4-Nitroaniline	0.299	0.328	-9.7	113	0.02
63		Azobenzene	1.349	1.335	1.0	110	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
65		4,6-Dinitro-2-methylphenol	0.131	0.129	1.5	109	0.01
66	c	n-Nitrosodiphenylamine	0.620	0.594	4.2	110	0.00
67		4-Bromophenyl-phenylether	0.226	0.213	5.8	110	0.00
68		Hexachlorobenzene	0.274	0.256	6.6	108	0.00
69		Atrazine	0.225	0.222	1.3	112	0.00
70	C	Pentachlorophenol	0.142	0.145	-2.1	115	0.01
71		Phenanthrene	1.105	1.039	6.0	108	0.00
72		Anthracene	1.119	1.072	4.2	110	0.00
73		Carbazole	1.038	1.019	1.8	112	0.00
74		Di-n-butylphthalate	1.285	1.284	0.1	111	-0.01
75	C	Fluoranthene	1.281	1.220	4.8	110	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	106	0.02
77		Benzidine	0.619	0.686	-10.8	111	0.00
78		Pyrene	1.249	1.224	2.0	109	0.00
79	S	Terphenyl-d14	1.116	1.080	3.2	105	0.00
80		Butylbenzylphthalate	0.572	0.596	-4.2	112	0.00
81		Benzo(a)anthracene	1.279	1.252	2.1	109	0.02
82		3,3'-Dichlorobenzidine	0.508	0.499	1.8	107	0.00
83		Chrysene	1.212	1.156	4.6	107	0.02
84		Bis(2-ethylhexyl)phthalate	0.820	0.854	-4.1	113	0.00
85	c	Di-n-octyl phthalate	1.445	1.522	-5.3	116	0.00
86	I	Perylene-d12	1.000	1.000	0.0	106	0.05
87		Indeno(1,2,3-cd)pyrene	1.459	1.404	3.8	105	0.07
88		Benzo(b)fluoranthene	1.145	1.079	5.8	101	0.02
89		Benzo(k)fluoranthene	1.165	1.122	3.7	107	0.03
90	C	Benzo(a)pyrene	1.118	1.070	4.3	106	0.05
91		Dibenzo(a,h)anthracene	1.188	1.130	4.9	104	0.06
92		Benzo(g,h,i)perylene	1.179	1.124	4.7	104	0.07

Sample Results: **BP024987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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: **BP024987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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	114	0.00
2		1,4-Dioxane	40.000	39.225	1.9	119	0.00
3		Pyridine	40.000	41.900	-4.7	124	0.00
4		n-Nitrosodimethylamine	40.000	37.748	5.6	111	0.00
5	S	2-Fluorophenol	80.000	82.307	-2.9	121	0.00
6		Aniline	40.000	40.039	-0.1	117	0.00
7	S	Phenol-d6	80.000	78.291	2.1	115	0.00
8		2-Chlorophenol	40.000	39.900	0.3	118	0.00
9		Benzaldehyde	40.000	39.569	1.1	118	0.00
10	C	Phenol	40.000	38.927	2.7	114	0.00
11		bis(2-Chloroethyl)ether	40.000	39.499	1.3	117	0.00
12		1,3-Dichlorobenzene	40.000	38.788	3.0	118	0.00
13	C	1,4-Dichlorobenzene	40.000	38.933	2.7	118	0.00
14		1,2-Dichlorobenzene	40.000	37.524	6.2	115	0.00
15		Benzyl Alcohol	40.000	38.684	3.3	115	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.745	3.1	118	0.00
17		2-Methylphenol	40.000	38.265	4.3	113	0.00
18		Hexachloroethane	40.000	38.732	3.2	117	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	37.533	6.2	111	0.00
20		3+4-Methylphenols	40.000	37.320	6.7	111	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	110	0.00
22		Acetophenone	40.000	39.059	2.4	110	0.00
23	S	Nitrobenzene-d5	80.000	79.271	0.9	111	0.00
24		Nitrobenzene	40.000	39.442	1.4	110	0.00
25		Isophorone	40.000	39.594	1.0	111	0.00
26	C	2-Nitrophenol	40.000	41.880	-4.7	115	0.00
27		2,4-Dimethylphenol	40.000	39.580	1.1	111	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.591	1.0	112	0.00
29	C	2,4-Dichlorophenol	40.000	40.545	-1.4	113	0.00
30		1,2,4-Trichlorobenzene	40.000	38.394	4.0	111	0.00
31		Naphthalene	40.000	38.818	3.0	110	0.00
32		Benzoic acid	40.000	39.247	1.9	110	0.01
33		4-Chloroaniline	40.000	40.593	-1.5	112	0.00
34	C	Hexachlorobutadiene	40.000	39.163	2.1	111	0.00
35		Caprolactam	40.000	41.348	-3.4	112	0.02
36	C	4-Chloro-3-methylphenol	40.000	39.447	1.4	108	0.01
37		2-Methylnaphthalene	40.000	38.727	3.2	109	0.00
38		1-Methylnaphthalene	40.000	38.543	3.6	109	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	107	0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	39.200	2.0	110	0.00
41	P	Hexachlorocyclopentadiene	40.000	36.129	9.7	99	0.00
42	S	2,4,6-Tribromophenol	80.000	77.587	3.0	107	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.664	0.8	108	0.01
44		2,4,5-Trichlorophenol	40.000	39.837	0.4	107	0.02
45	S	2-Fluorobiphenyl	80.000	76.096	4.9	109	0.00
46		1,1'-Biphenyl	40.000	39.089	2.3	110	0.01
47		2-Chloronaphthalene	40.000	39.062	2.3	109	0.00

Sample Results: **BP024987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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	41.254	-3.1	109	0.01
49		Acenaphthylene	40.000	38.863	2.8	109	0.01
50		Dimethylphthalate	40.000	38.418	4.0	108	0.00
51		2,6-Dinitrotoluene	40.000	40.001	-0.0	109	0.00
52	C	Acenaphthene	40.000	38.839	2.9	109	0.01
53		3-Nitroaniline	40.000	42.207	-5.5	110	0.01
54	P	2,4-Dinitrophenol	40.000	37.783	5.5	107	0.02
55		Dibenzofuran	40.000	38.386	4.0	108	0.00
56	P	4-Nitrophenol	40.000	42.151	-5.4	119	0.05
57		2,4-Dinitrotoluene	40.000	40.192	-0.5	109	0.02
58		Fluorene	40.000	38.621	3.4	110	0.01
59		2,3,4,6-Tetrachlorophenol	40.000	40.039	-0.1	110	0.01
60		Diethylphthalate	40.000	39.698	0.8	112	0.00
61		4-Chlorophenyl-phenylether	40.000	38.405	4.0	109	0.00
62		4-Nitroaniline	40.000	43.835	-9.6	113	0.02
63		Azobenzene	40.000	39.598	1.0	110	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	110	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.382	1.5	109	0.01
66	c	n-Nitrosodiphenylamine	40.000	38.353	4.1	110	0.00
67		4-Bromophenyl-phenylether	40.000	37.704	5.7	110	0.00
68		Hexachlorobenzene	40.000	37.438	6.4	108	0.00
69		Atrazine	40.000	39.441	1.4	112	0.00
70	C	Pentachlorophenol	40.000	41.015	-2.5	115	0.01
71		Phenanthrene	40.000	37.595	6.0	108	0.00
72		Anthracene	40.000	38.323	4.2	110	0.00
73		Carbazole	40.000	39.299	1.8	112	0.00
74		Di-n-butylphthalate	40.000	39.967	0.1	111	-0.01
75	C	Fluoranthene	40.000	38.099	4.8	110	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	106	0.02
77		Benzidine	40.000	44.318	-10.8	111	0.00
78		Pyrene	40.000	39.184	2.0	109	0.00
79	S	Terphenyl-d14	80.000	77.432	3.2	105	0.00
80		Butylbenzylphthalate	40.000	41.630	-4.1	112	0.00
81		Benzo(a)anthracene	40.000	39.157	2.1	109	0.02
82		3,3'-Dichlorobenzidine	40.000	39.313	1.7	107	0.00
83		Chrysene	40.000	38.151	4.6	107	0.02
84		Bis(2-ethylhexyl)phthalate	40.000	41.680	-4.2	113	0.00
85	c	Di-n-octyl phthalate	40.000	42.116	-5.3	116	0.00
86	I	Perylene-d12	20.000	20.000	0.0	106	0.05
87		Indeno(1,2,3-cd)pyrene	40.000	38.498	3.8	105	0.07
88		Benzo(b)fluoranthene	40.000	37.712	5.7	101	0.02
89		Benzo(k)fluoranthene	40.000	38.515	3.7	107	0.03
90	C	Benzo(a)pyrene	40.000	38.290	4.3	106	0.05
91		Dibenzo(a,h)anthracene	40.000	38.044	4.9	104	0.06
92		Benzo(g,h,i)perylene	40.000	38.133	4.7	104	0.07

Sample Results: **BP024987.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024987.D
Acq On : 18 Jun 2025 09:55
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jun 18 11:35:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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

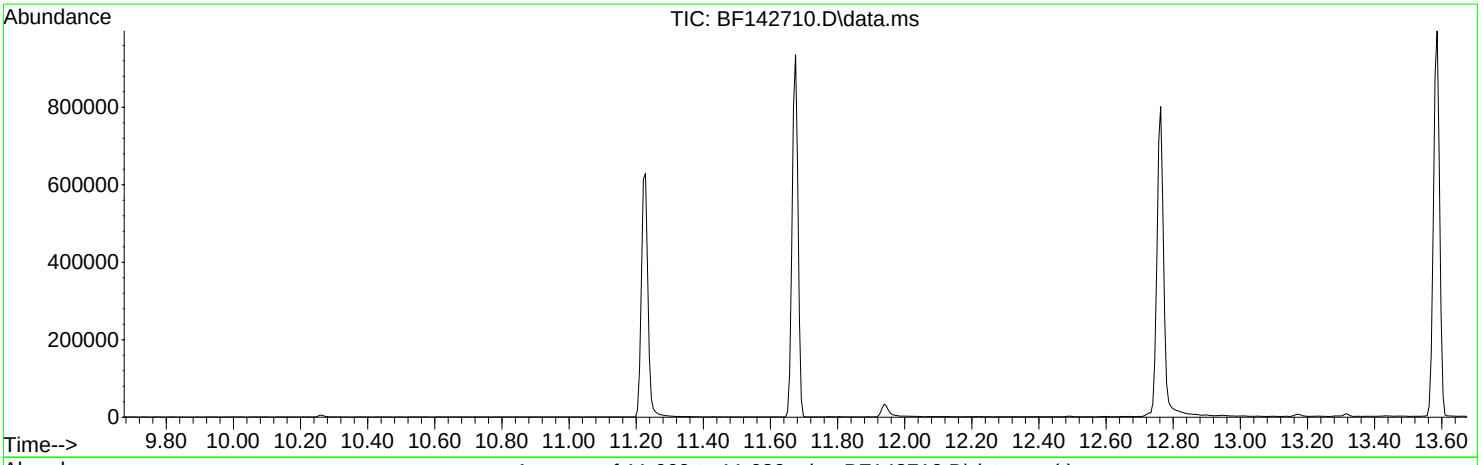
Sample Results: **BF142710.D**

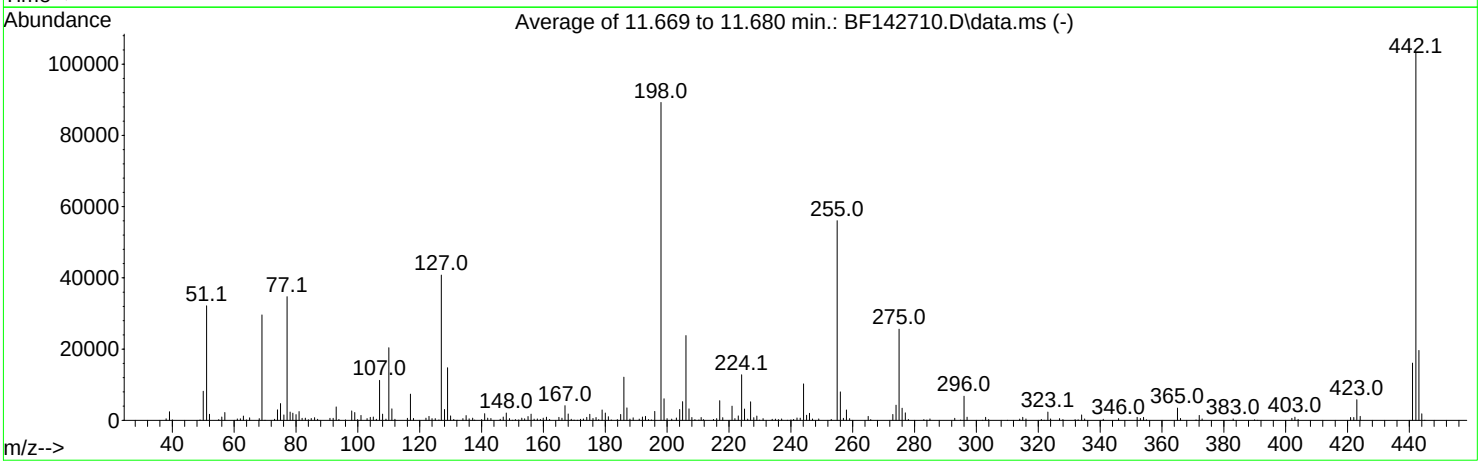
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142710.D
Acq On : 10 Jun 2025 15:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 11 05:56:09 2025





AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	32160	PASS
68	69	0.00	2	1.7	514	PASS
69	198	0.00	100	33.2	29603	PASS
70	69	0.00	2	0.2	55	PASS
127	198	10	80	45.7	40781	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	89240	PASS
199	198	5	9	6.8	6083	PASS
275	198	10	60	28.7	25613	PASS
365	198	1	100	3.9	3449	PASS
441	198	0.01	100	18.0	16079	PASS
442	442	50	100	100.0	103267	PASS
443	442	15	24	19.0	19634	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/11/2025	BNA_F	BF142710.D
Compound Name	**Response**	**Retention Time**
DDT	258255	13.586
DDD	3816	13.316
DDE	597	12.951
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
4413	262668	1.68

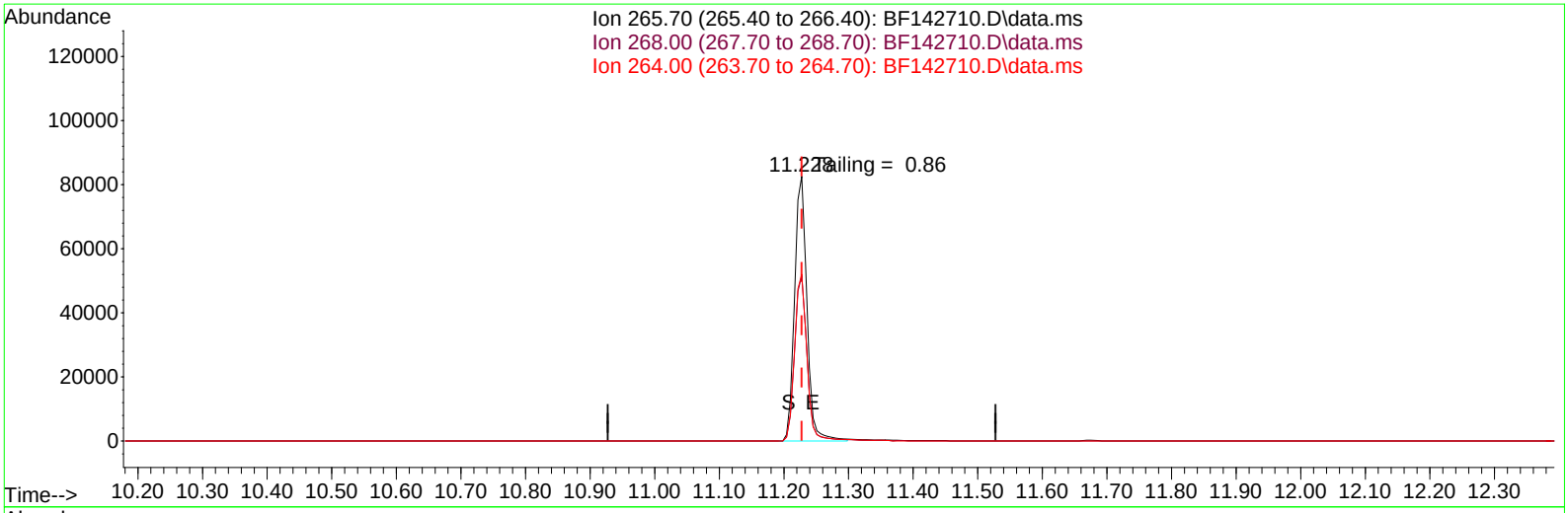
Instrument :
BNA_F
ClientSampleId :
DFTPP

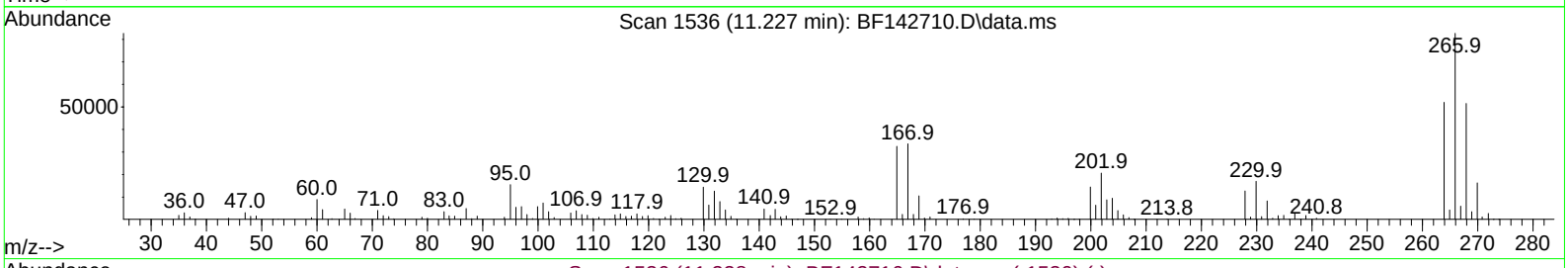
Sample Results: **BF142710.D**

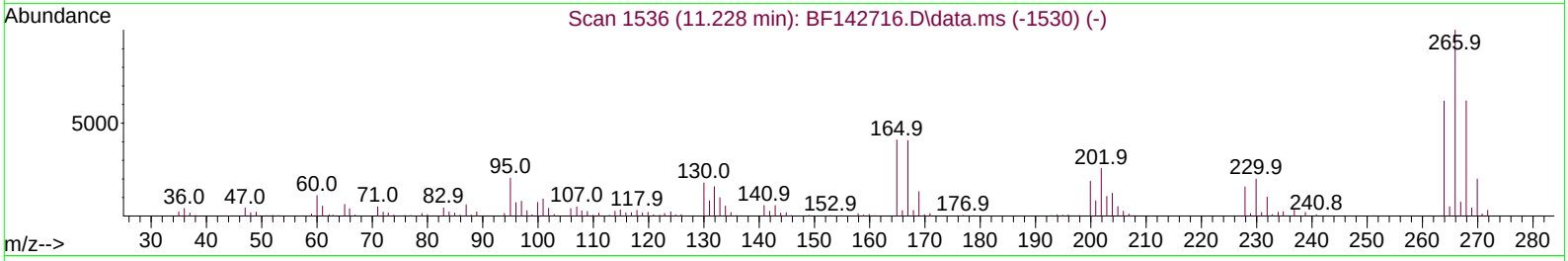
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142710.D
Acq On : 10 Jun 2025 15:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jun 11 06:08:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration







TIC: BF142710.D\data.ms

(70) Pentachlorophenol (C)

11.227min (-0.000) 33796.57 ng

response 112116

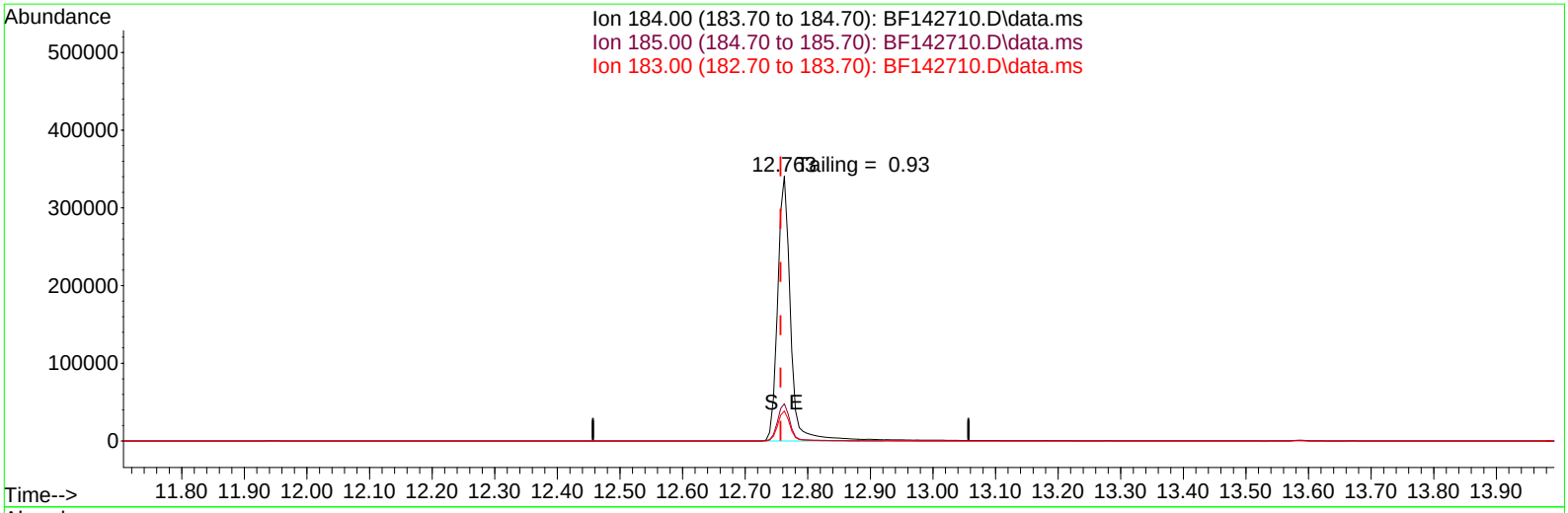
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.00	62.35
264.00	61.90	62.95
0.00	0.00	0.00

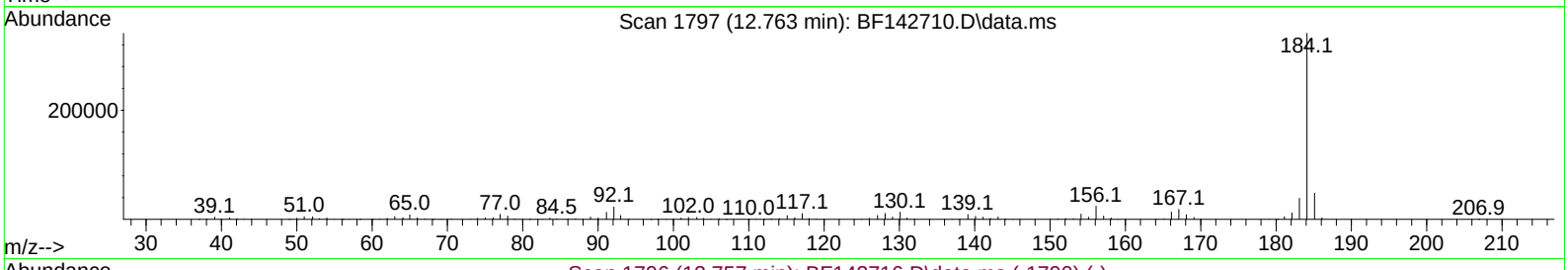
Sample Results: **BF142710.D**

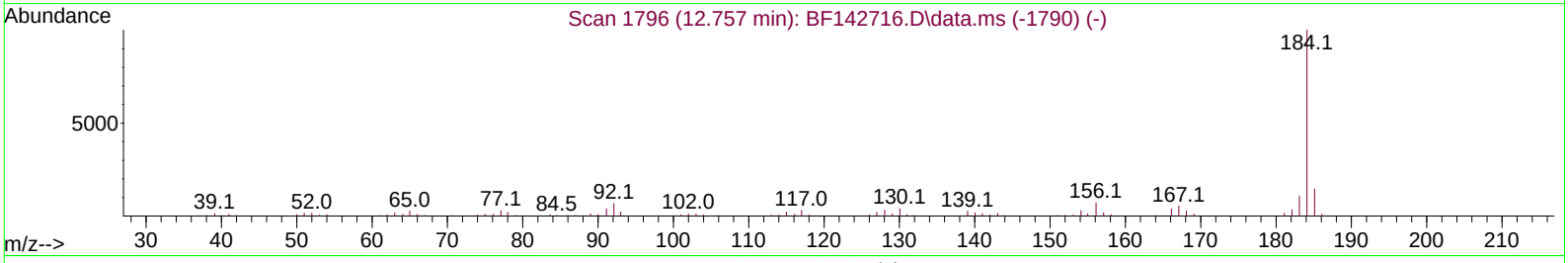
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142710.D
Acq On : 10 Jun 2025 15:42
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jun 11 06:08:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration







TIC: BF142710.D\data.ms

(77) Benzidine

12.763min (+ 0.006) 0.00 ng

response 494727

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.07
183.00	10.70	11.33
0.00	0.00	0.00

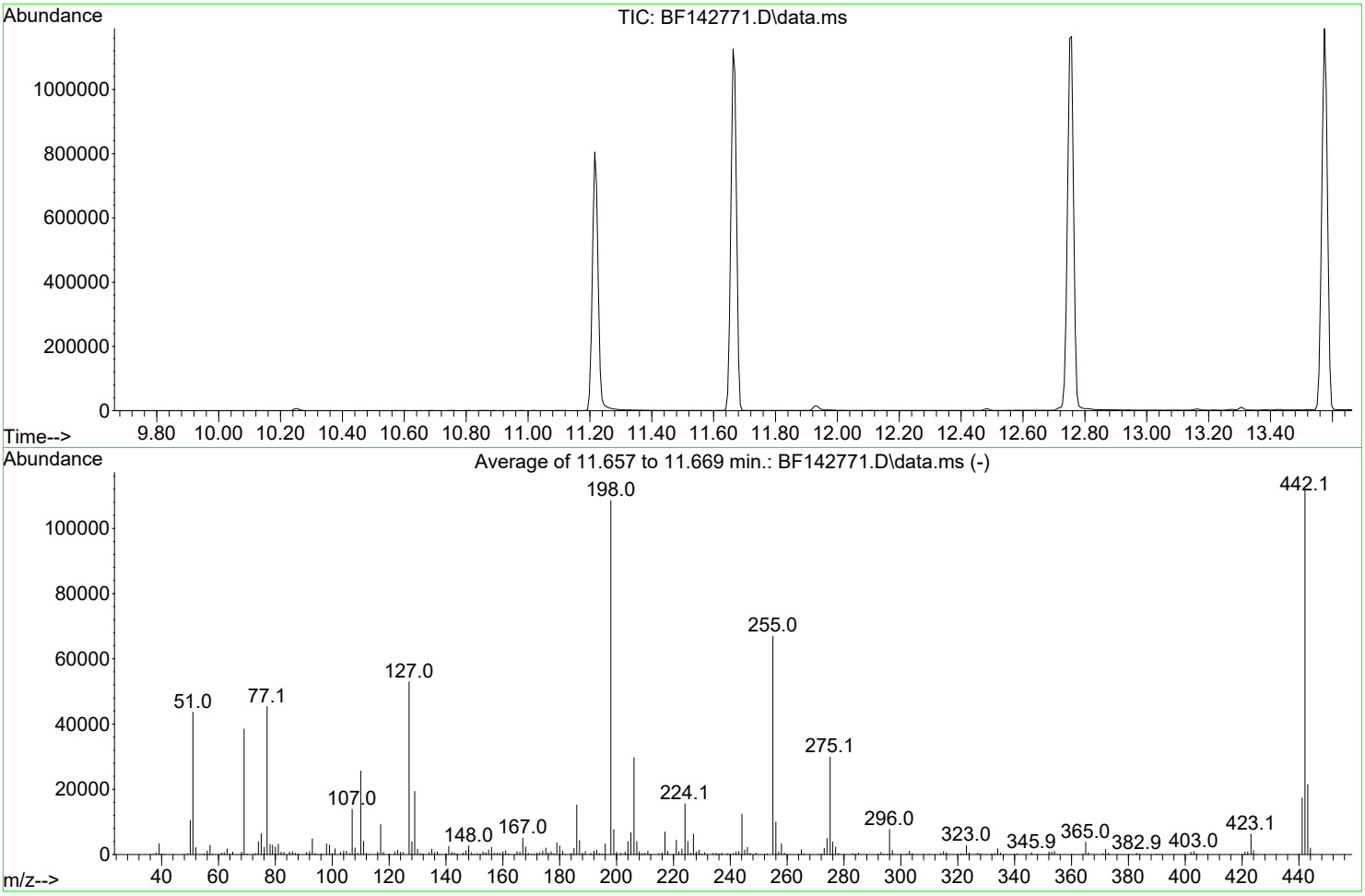
Sample Results: **BF142771.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142771.D
Acq On : 18 Jun 2025 11:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 11 05:56:09 2025



AutoFind: Scans 1609, 1610, 1611; Background Corrected with Scan 1603

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	706	PASS
69	69	100	100	100.0	38480	PASS
70	69	0.00	2	0.5	203	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	108533	PASS
199	198	5	9	7.0	7586	PASS
365	198	1	100	3.5	3821	PASS
441	443	0.01	150	80.8	17318	PASS
442	442	100	100	100.0	111592	PASS
443	442	15	24	19.2	21432	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/18/2025	BNA_F	BF142771.D
Compound Name	**Response**	**Retention Time**
DDT	303010	13.574
DDD	4347	13.304
DDE	430	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
4777	307787	1.55

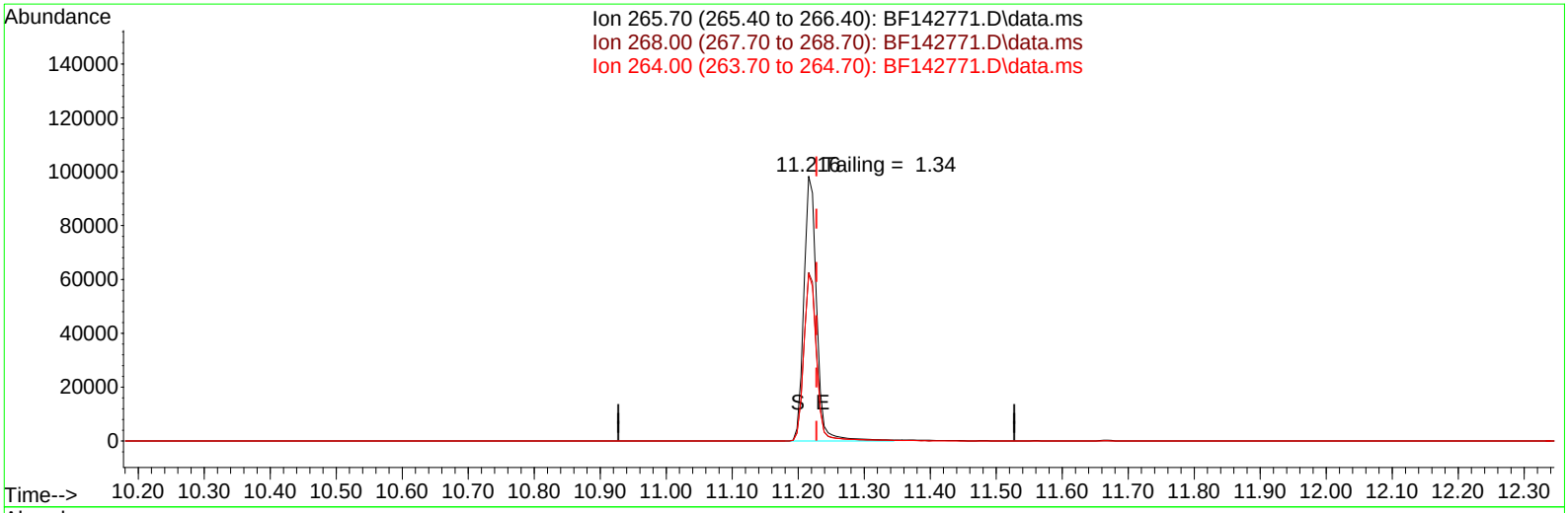
Instrument :
BNA_F
ClientSampleId :
DFTPP

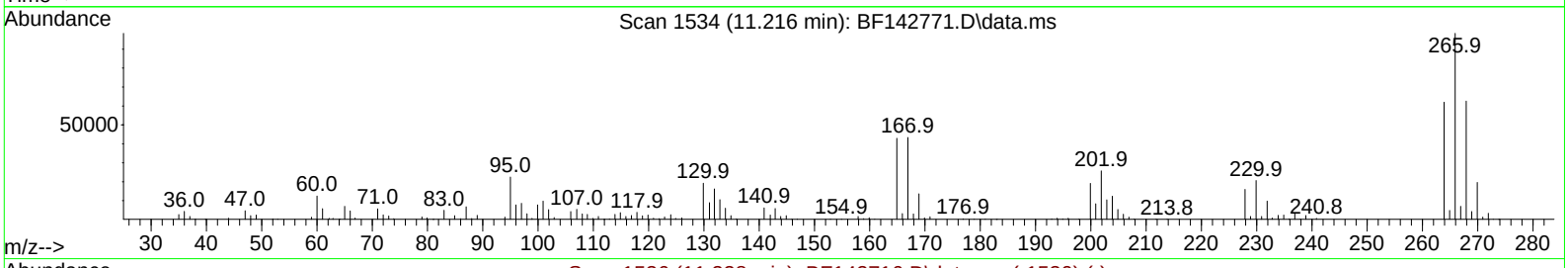
Sample Results: **BF142771.D**

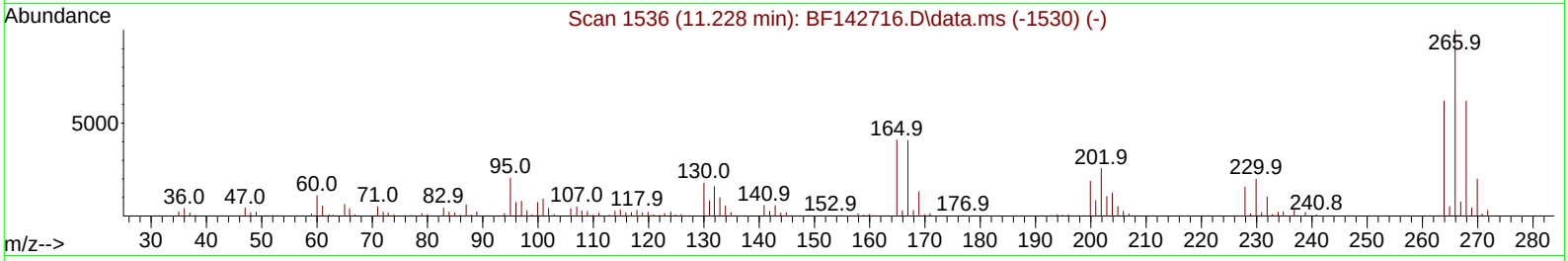
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142771.D
Acq On : 18 Jun 2025 11:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jun 18 13:05:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration







TIC: BF142771.D\data.ms

(70) Pentachlorophenol (C)

11.216min (-0.012) 34494.01 ng

response 132909

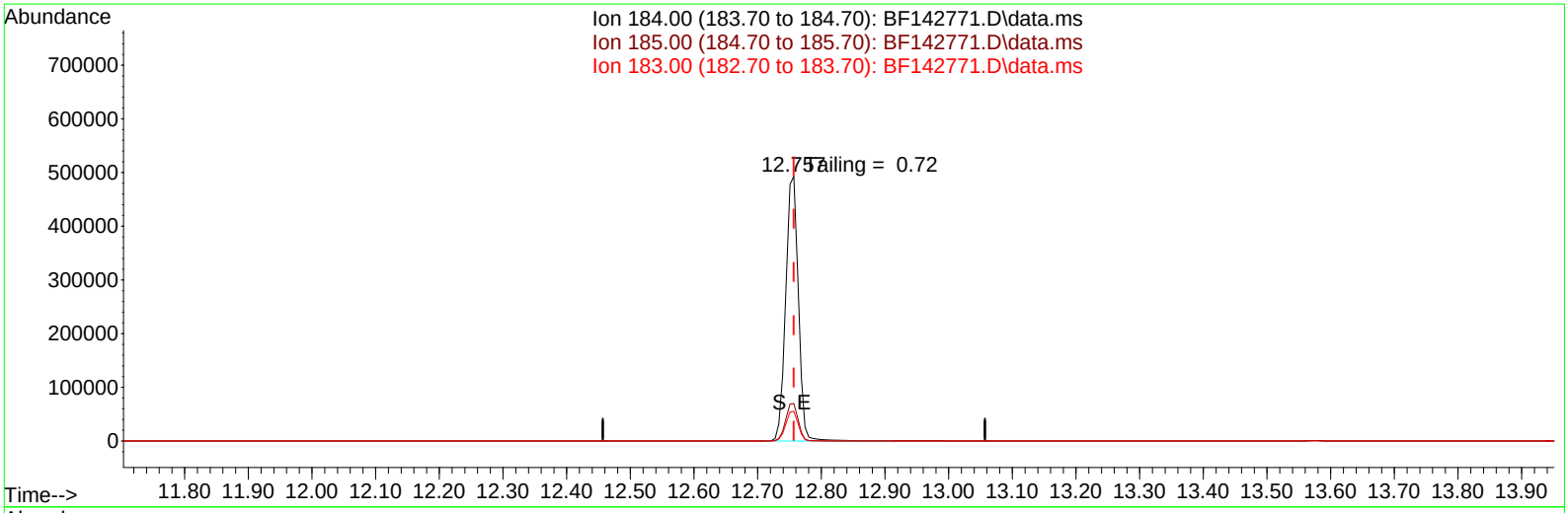
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.00	63.62
264.00	61.90	63.03
0.00	0.00	0.00

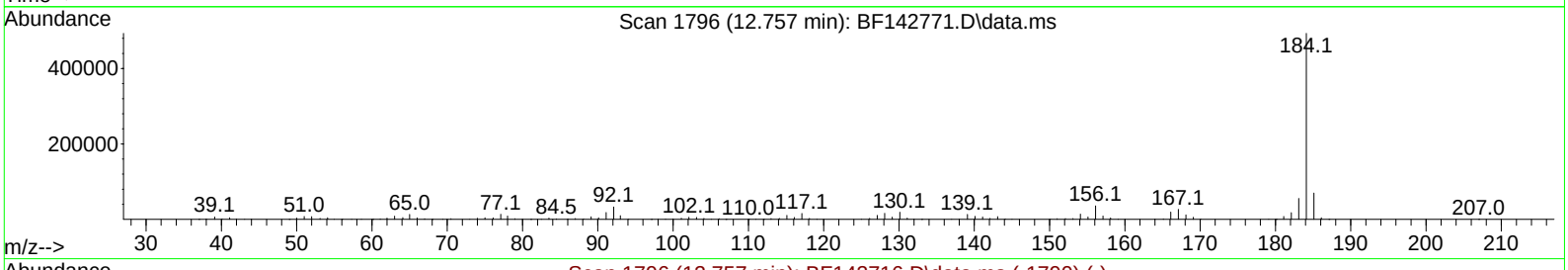
Sample Results: **BF142771.D**

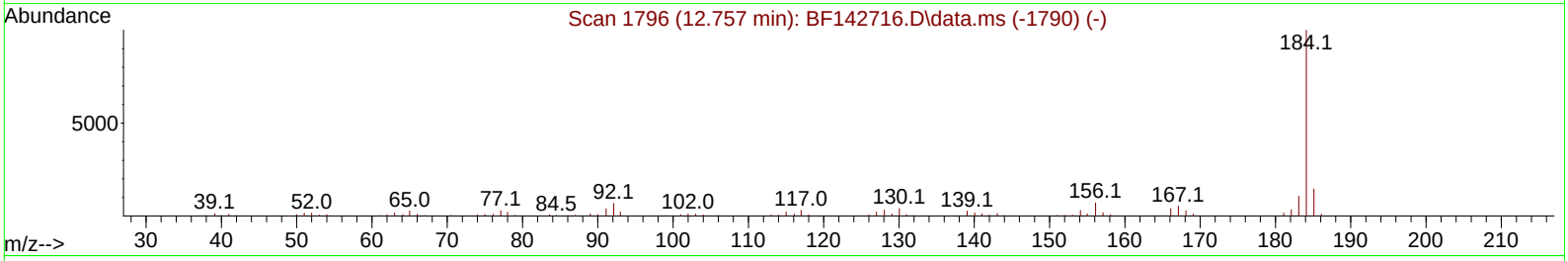
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061825\
Data File : BF142771.D
Acq On : 18 Jun 2025 11:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jun 18 13:05:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration







TIC: BF142771.D\data.ms

(77) Benzidine

12.757min (-0.000) 0.00 ng

response 680187

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.15
183.00	10.70	11.24
0.00	0.00	0.00

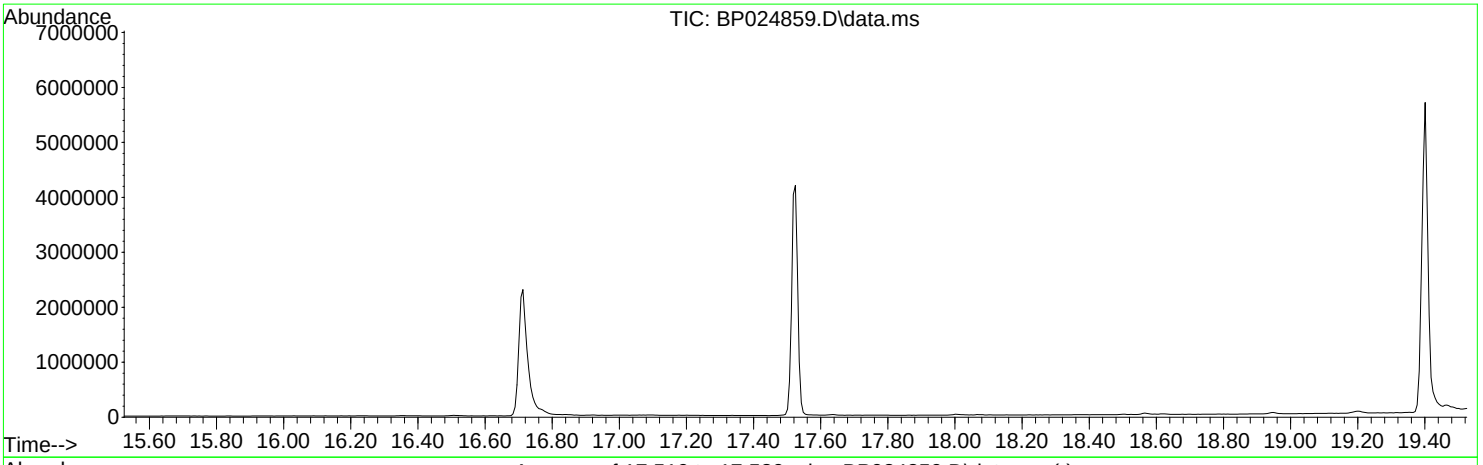
Sample Results: **BP024859.D**

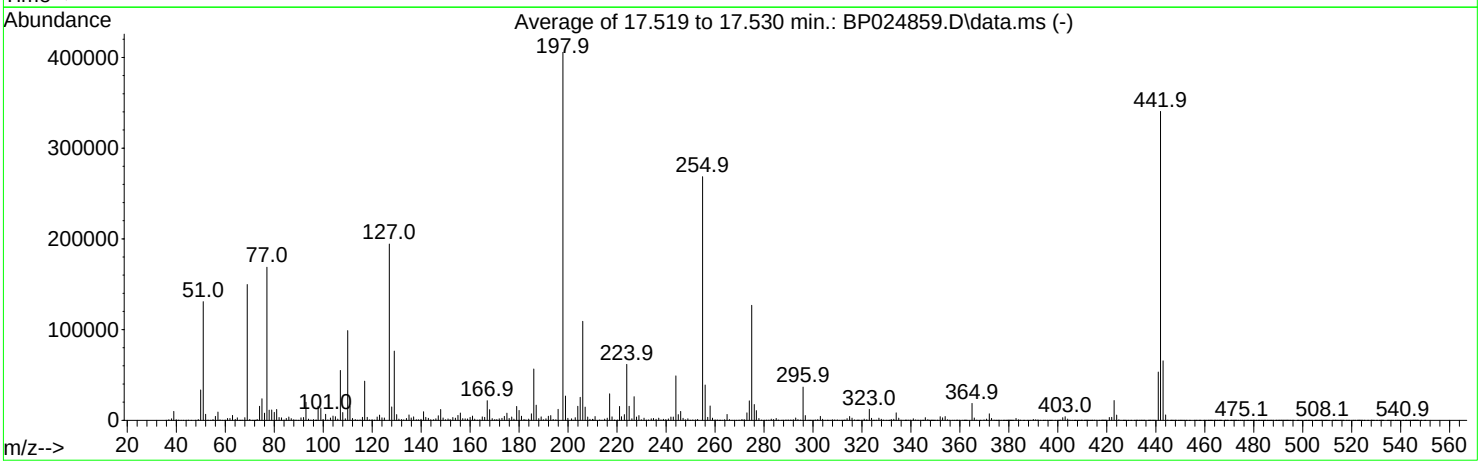
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024859.D
Acq On : 06 Jun 2025 09:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 06 16:20:27 2025





AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2471

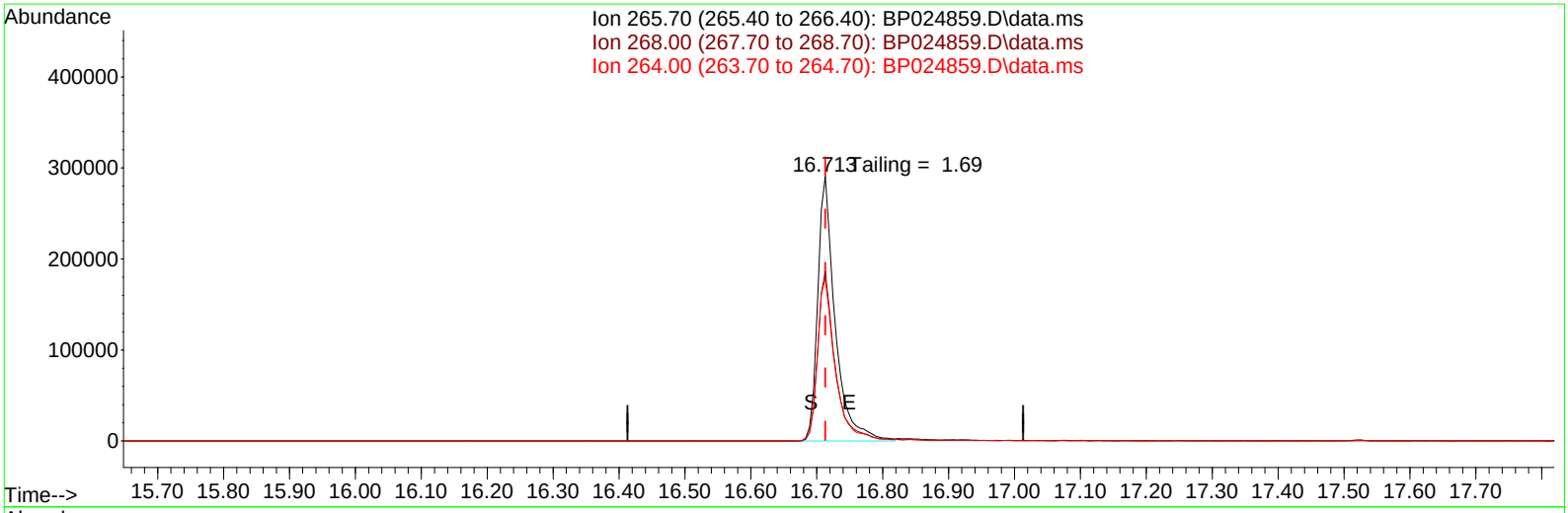
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.2	130762	PASS
68	69	0.00	2	1.9	2882	PASS
69	198	0.00	100	36.9	149759	PASS
70	69	0.00	2	0.6	956	PASS
127	198	10	80	47.9	194356	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	405520	PASS
199	198	5	9	6.6	26790	PASS
275	198	10	60	31.2	126715	PASS
365	198	1	100	4.6	18586	PASS
441	198	0.01	100	13.1	53196	PASS
442	442	100	100	100.0	340484	PASS
443	442	15	24	19.2	65481	PASS

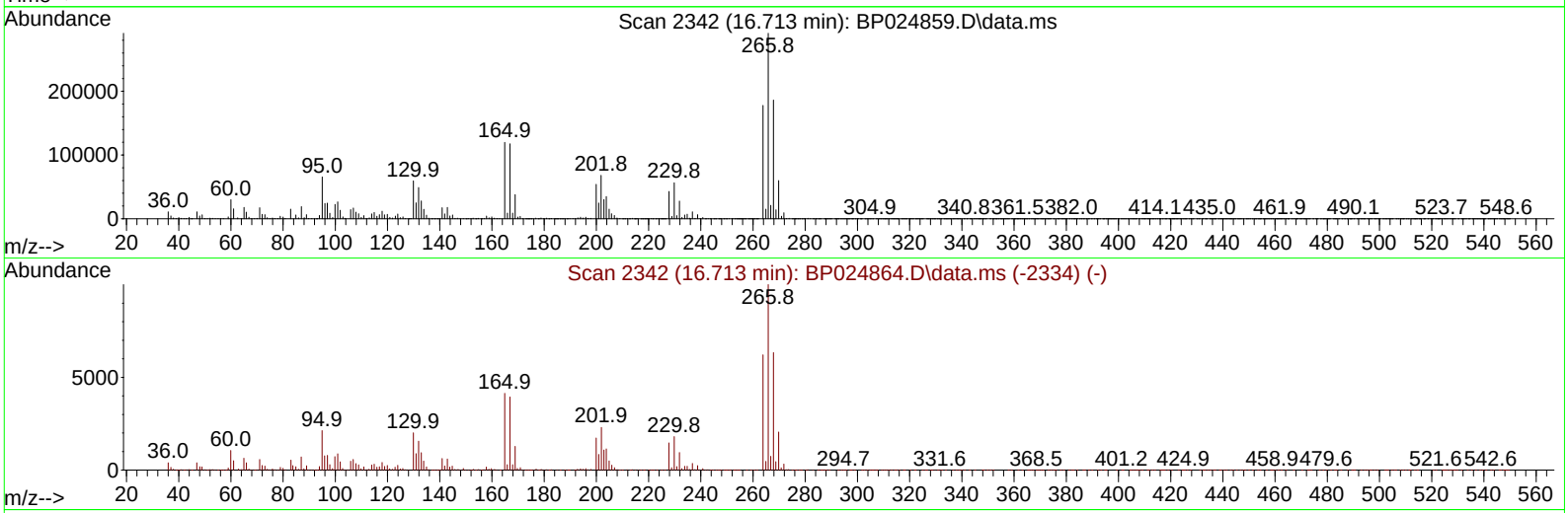
Sample Results: **BP024859.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024859.D
Acq On : 06 Jun 2025 09:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jun 06 16:23:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration





TIC: BP024859.D\data.ms

(70) Pentachlorophenol (C)

16.713min (-0.000) 25022.31 ng

response 535499

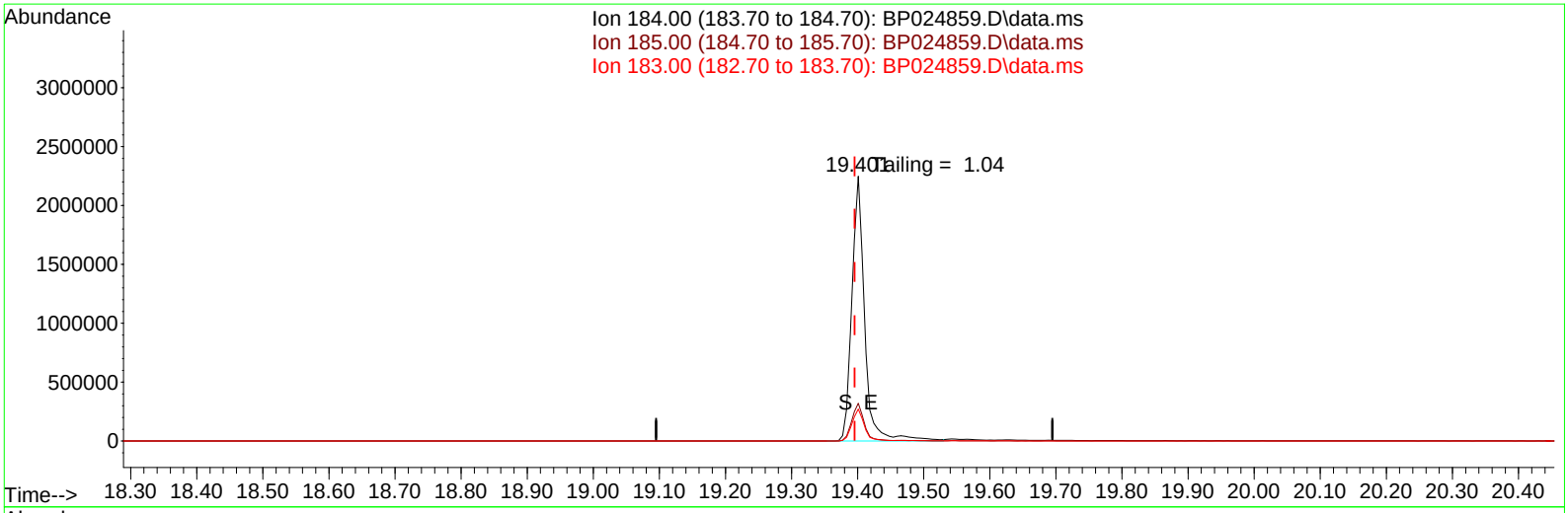
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.30	63.99
264.00	62.10	61.11
0.00	0.00	0.00

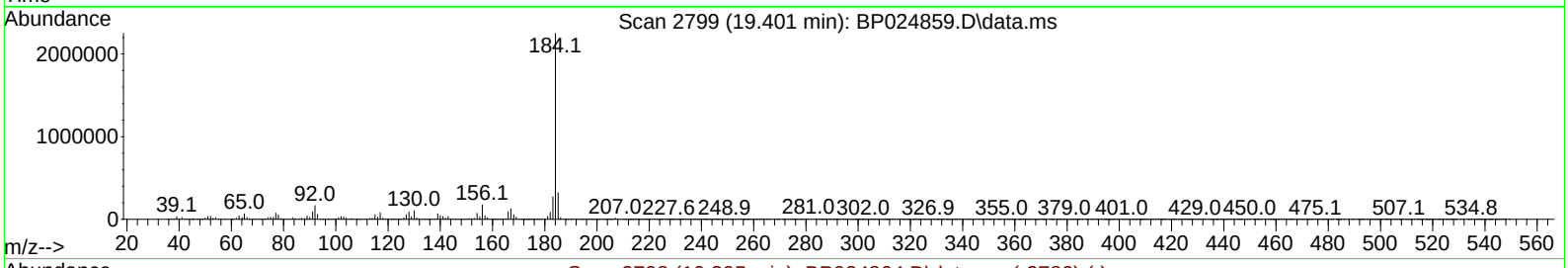
Sample Results: **BP024859.D**

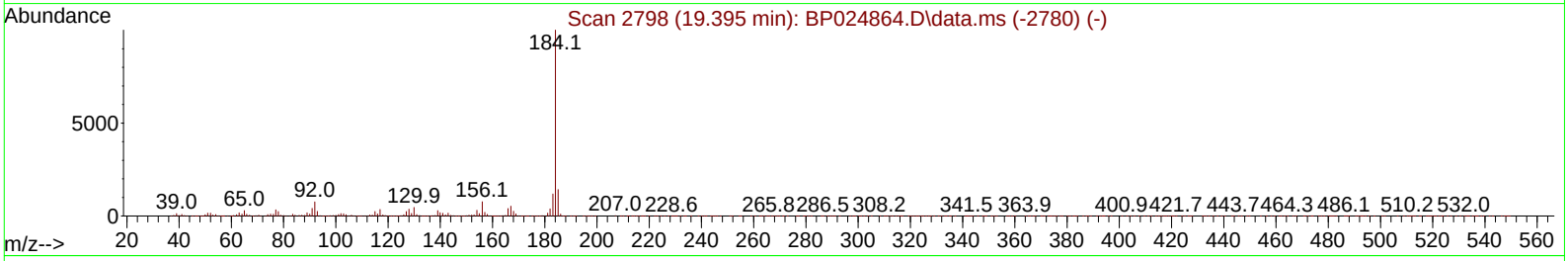
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060625\
Data File : BP024859.D
Acq On : 06 Jun 2025 09:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jun 06 16:23:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration







TIC: BP024859.D\data.ms

(77) Benzidine

19.401min (+ 0.006) 4191.40 ng

response 2912892

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.20	14.27
183.00	11.90	12.06
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/6/2025	BNA_P	BP024859.D
Compound Name	**Response**	**Retention Time**
DDT	1572545	20.677
DDD	21912	20.26
DDE	1833	19.695
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
23745	1596290	1.49

Instrument :
BNA_P
ClientSampleId :
DFTPP

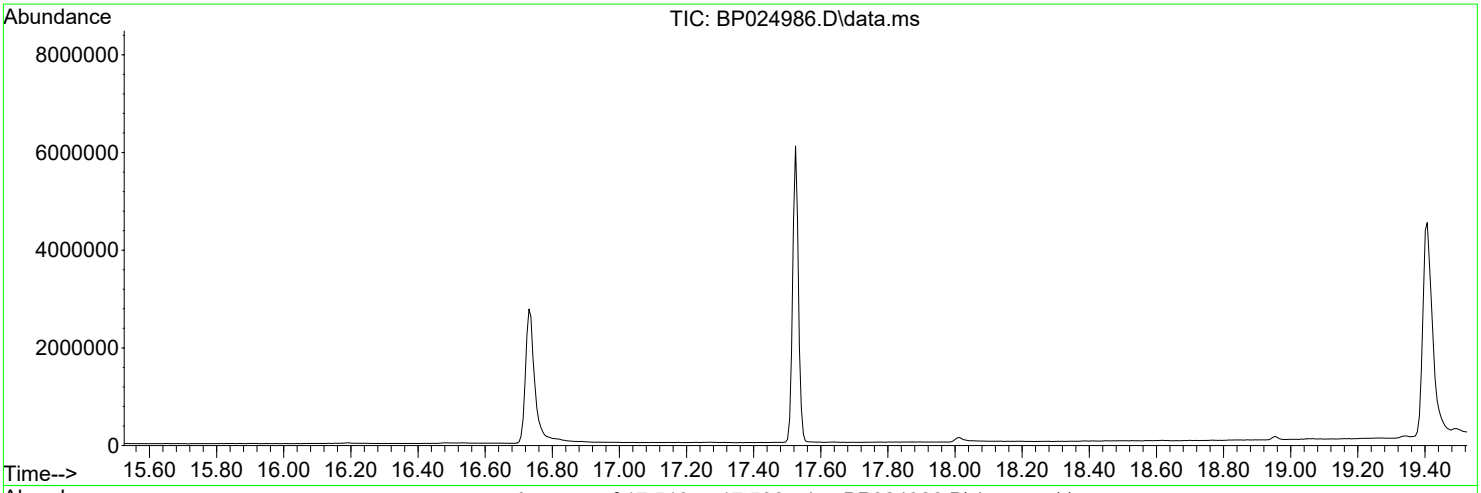
Sample Results: **BP024986.D**

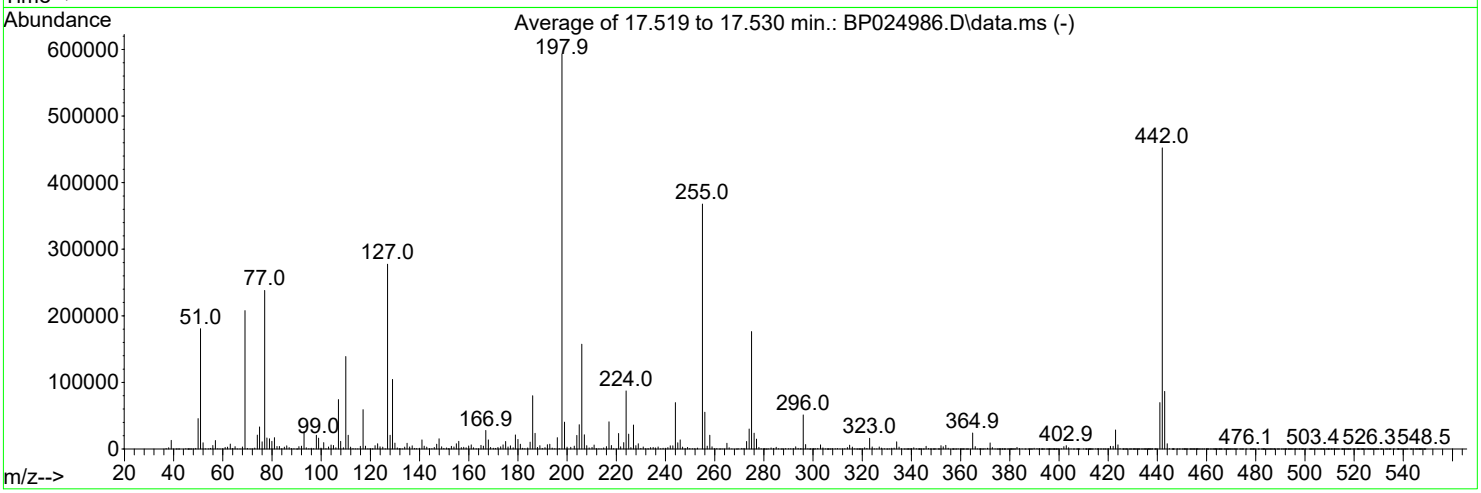
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024986.D
Acq On : 18 Jun 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 06 16:20:27 2025





AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2471

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	3188	PASS
69	69	100	100	100.0	207869	PASS
70	69	0.00	2	0.5	1028	PASS
197	198	0.00	2	0.1	776	PASS
198	198	100	100	100.0	592942	PASS
199	198	5	9	6.8	40483	PASS
365	198	1	100	4.1	24073	PASS
441	443	0.01	150	80.7	69821	PASS
442	442	100	100	100.0	452245	PASS
443	442	15	24	19.1	86555	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
4/18/2025	BNA_P	BP024386.D
Compound Name	**Response**	**Retention Time**
DDT	1976784	20.683
DDD	62779	20.224
DDE	5557	19.695
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
68336	2045120	3.34

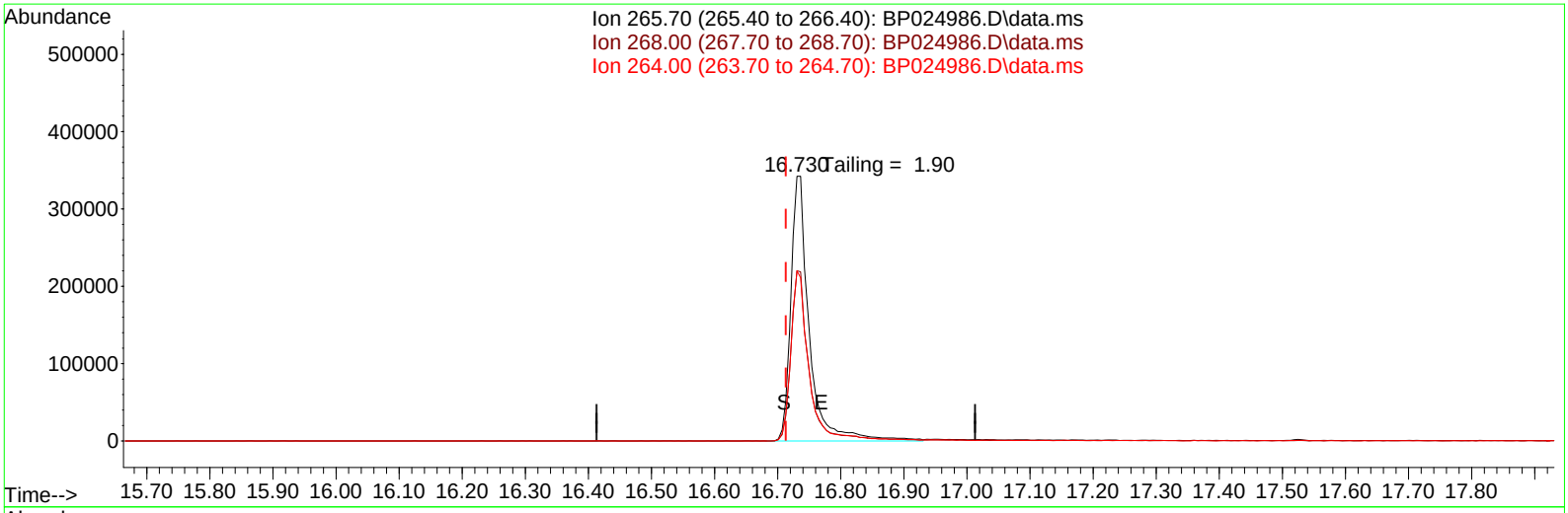
Instrument :
BNA_P
ClientSampleId :
DFTPP

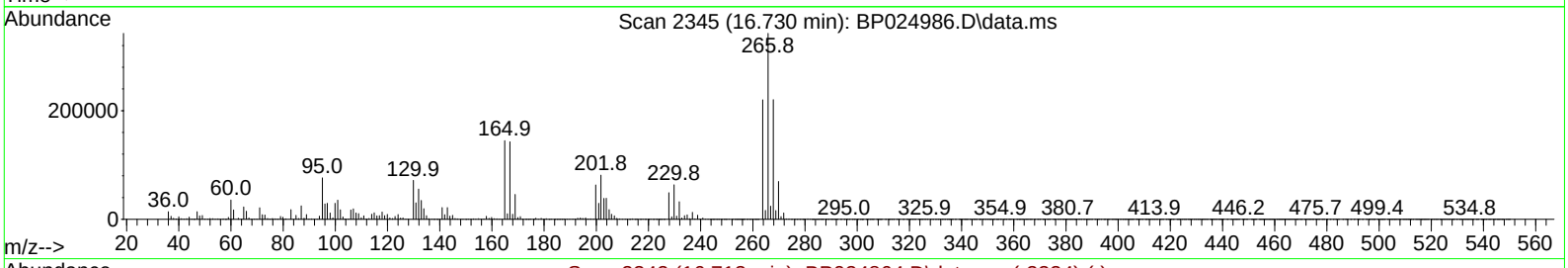
Sample Results: **BP024986.D**

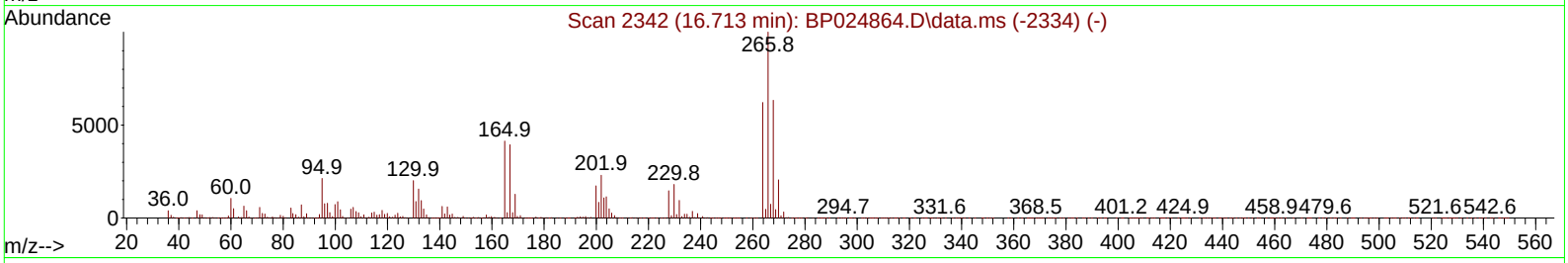
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024986.D
Acq On : 18 Jun 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jun 18 11:34:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration







TIC: BP024986.D\data.ms

(70) Pentachlorophenol (C)

16.730min (+ 0.017) 2136417.31 ng

response 695724

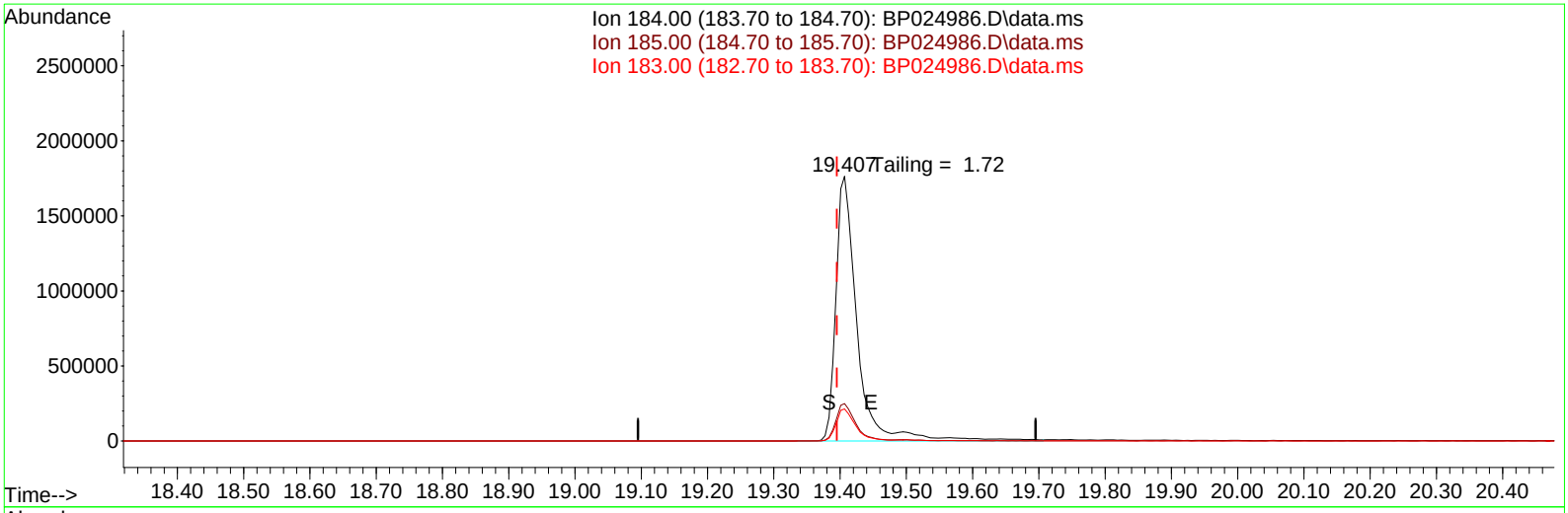
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.30	64.34
264.00	62.10	64.30
0.00	0.00	0.00

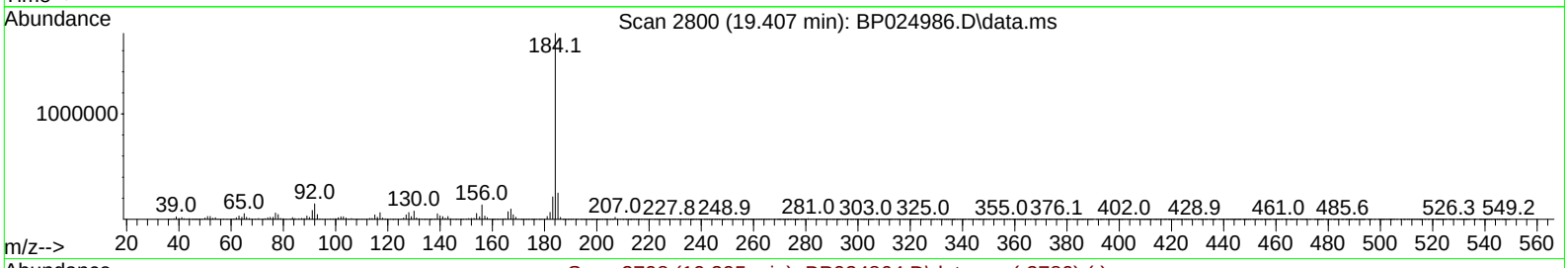
Sample Results: **BP024986.D**

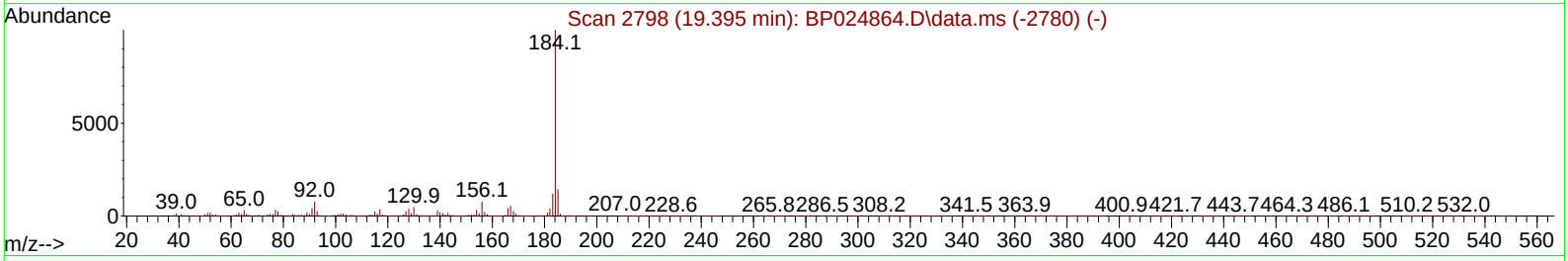
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024986.D
Acq On : 18 Jun 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jun 18 11:34:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration







TIC: BP024986.D\data.ms

(77) Benzidine

19.407min (+ 0.012) 430098.83 ng

response 3649895

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.20	14.16
183.00	11.90	12.09
0.00	0.00	0.00

Raw Data: **BP024988.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	PB168509BL	SDG No.:	Q2333
Lab Sample ID:	PB168509BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024988.D	1	06/17/25 09:25	06/18/25 10:36	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	5.00	U	0.75	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	0.55	5.00	ug/L
86-73-7	Fluorene	5.00	U	0.63	5.00	ug/L
85-01-8	Phenanthrene	5.00	U	0.50	5.00	ug/L
120-12-7	Anthracene	5.00	U	0.61	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	0.82	5.00	ug/L
129-00-0	Pyrene	5.00	U	0.50	5.00	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	0.45	5.00	ug/L
218-01-9	Chrysene	5.00	U	0.44	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	5.00	U	0.69	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.1		67 - 132	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.5		52 - 132	81%	SPK: 100
1718-51-0	Terphenyl-d14	84.2		42 - 152	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	279000	7.608			
1146-65-2	Naphthalene-d8	1050000	10.378			
15067-26-2	Acenaphthene-d10	632000	14.26			
1517-22-2	Phenanthrene-d10	1250000	17.072			
1719-03-5	Chrysene-d12	1330000	21.501			
1520-96-3	Perylene-d12	1600000	24.771			

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

Report of Analysis

Client:	LiRo Engineers, Inc.			Date Collected:	
Project:	RFK Bridge RMB-Randall Island			Date Received:	
Client Sample ID:	PB168509BL			SDG No.:	Q2333
Lab Sample ID:	PB168509BL			Matrix:	Water
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
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
BP024988.D	1	06/17/25 09:25	06/18/25 10:36	PB168509

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: **BP024988.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024988.D
Acq On : 18 Jun 2025 10:36
Operator : RC/JU
Sample : PB168509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Quant Time: Jun 18 11:35:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

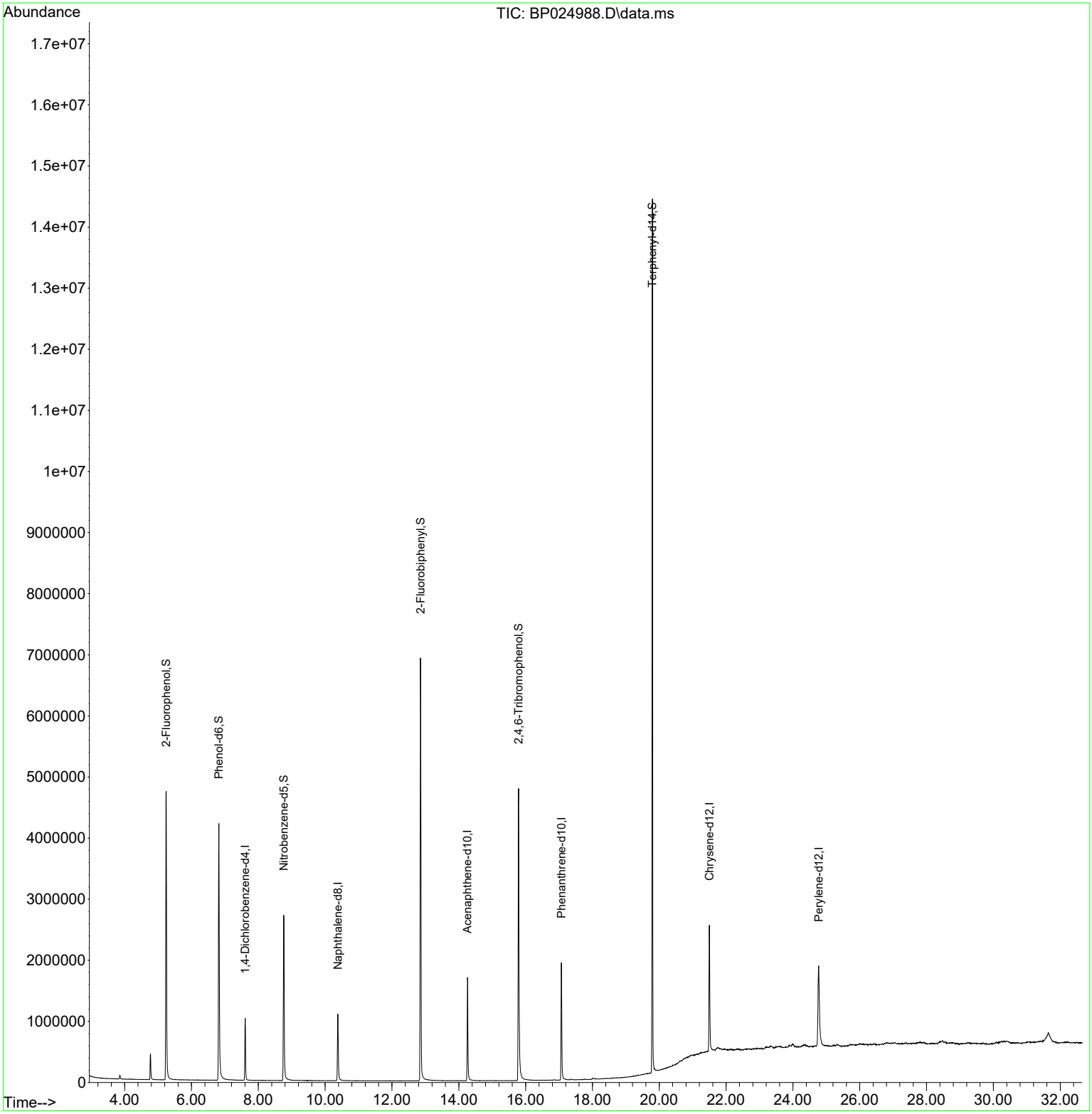
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.608	152	278843	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	1046607	20.000	ng	0.00
39) Acenaphthene-d10	14.260	164	632257	20.000	ng	0.01
64) Phenanthrene-d10	17.072	188	1245796	20.000	ng	0.01
76) Chrysene-d12	21.501	240	1328391	20.000	ng	0.02
86) Perylene-d12	24.771	264	1595374	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	2391475	143.158	ng	0.00
7) Phenol-d6	6.819	99	2902428	131.316	ng	0.00
23) Nitrobenzene-d5	8.761	82	1812094	84.134	ng	0.00
42) 2,4,6-Tribromophenol	15.790	330	1178919	134.868	ng	0.00
45) 2-Fluorobiphenyl	12.854	172	3825055	81.499	ng	0.00
79) Terphenyl-d14	19.795	244	6242246	84.220	ng	0.00
Target Compounds						Qvalue

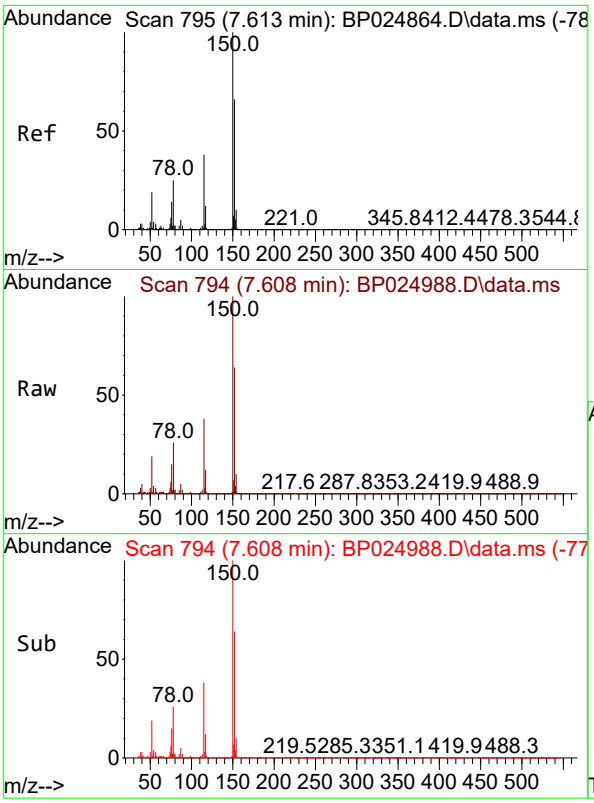
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024988.D
Acq On : 18 Jun 2025 10:36
Operator : RC/JU
Sample : PB168509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Quant Time: Jun 18 11:35:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



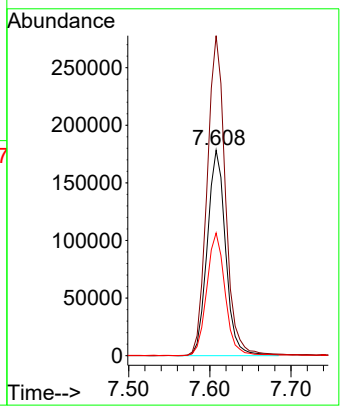


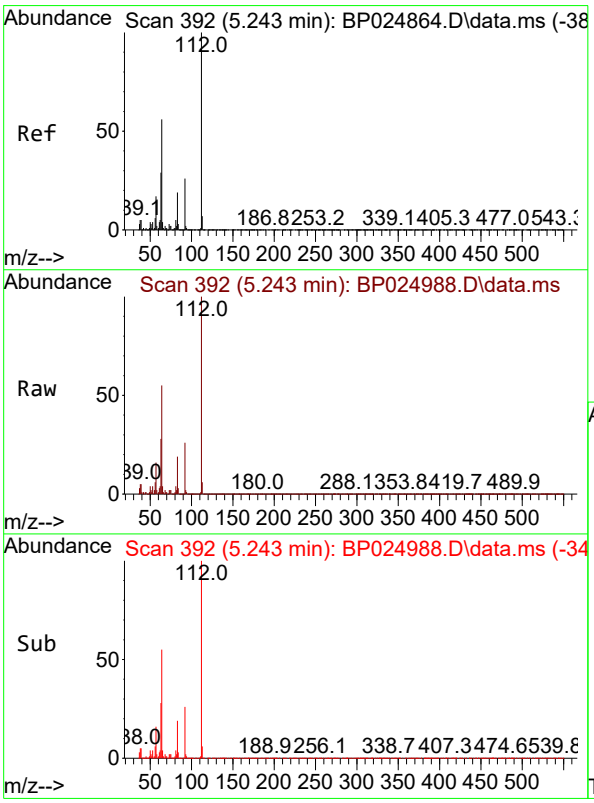
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.608 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Tgt Ion:152 Resp: 278843

Ion	Ratio	Lower	Upper
152	100		
150	155.8	122.1	183.1
115	59.8	46.4	69.6

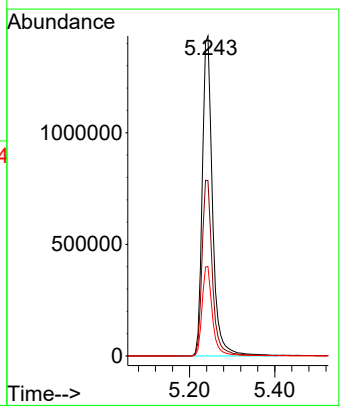


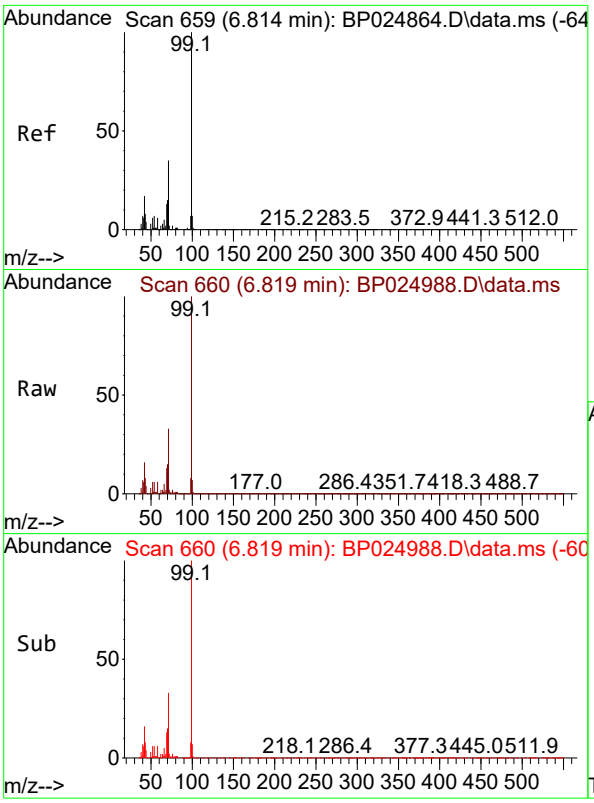


#5
2-Fluorophenol
Concen: 143.158 ng
RT: 5.243 min Scan# 392
Delta R.T. 0.000 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Tgt Ion:112 Resp: 2391475

Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.7	67.1
63	27.9	23.5	35.3



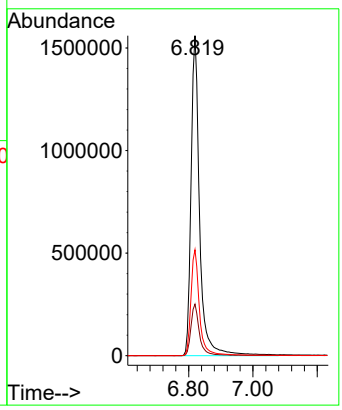


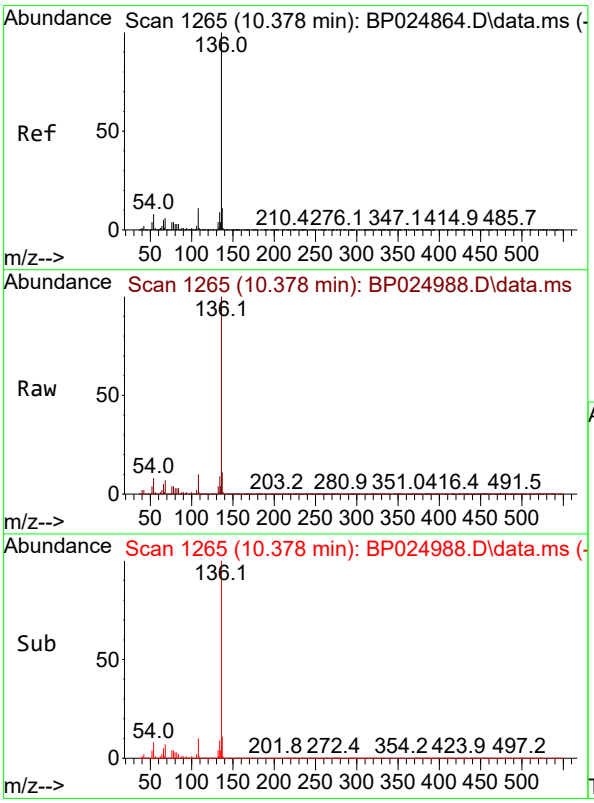
#7
Phenol-d6
Concen: 131.316 ng
RT: 6.819 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Tgt Ion: 99 Resp: 2902428

Ion	Ratio	Lower	Upper
99	100		
42	16.1	13.4	20.2
71	33.1	27.6	41.4

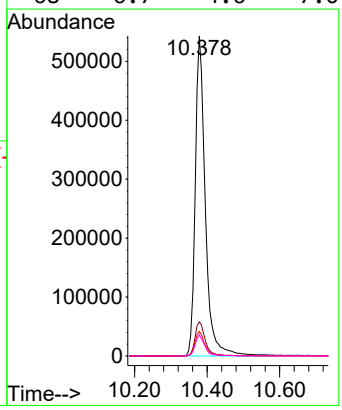


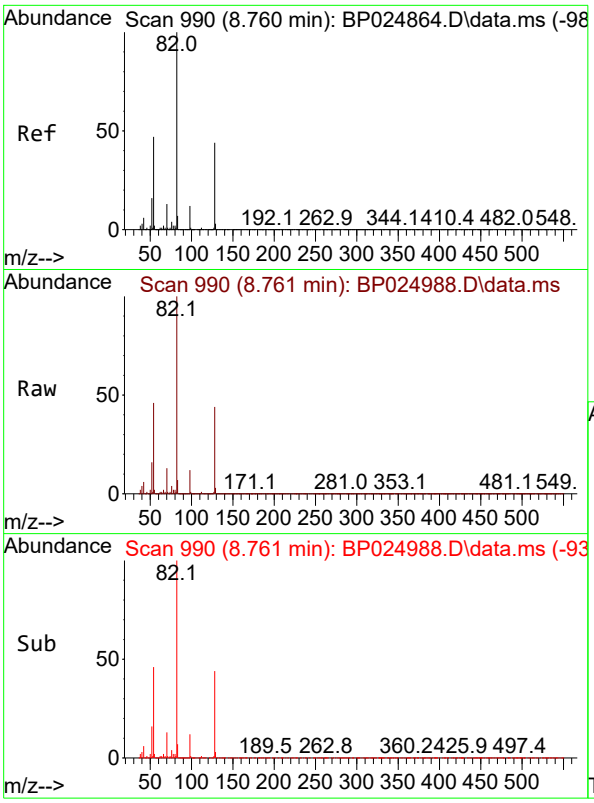


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.378 min Scan# 1265
Delta R.T. 0.000 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Tgt Ion:136 Resp: 1046607

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.7	6.1	9.1
68	6.7	4.6	7.0



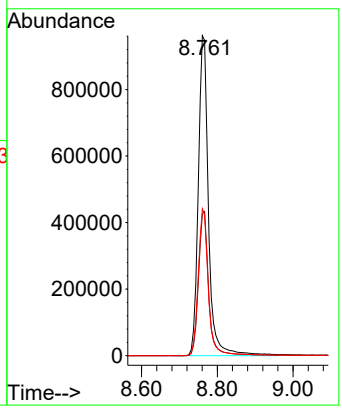


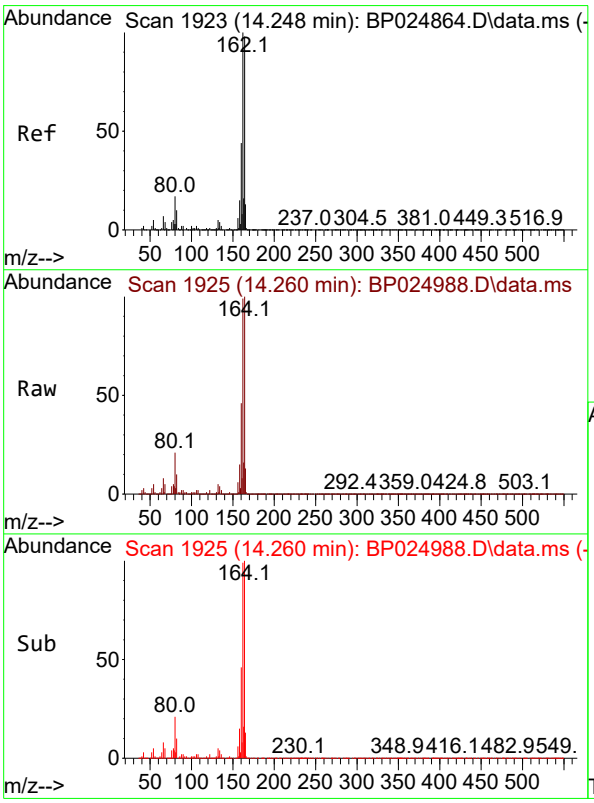
#23
Nitrobenzene-d5
Concen: 84.134 ng
RT: 8.761 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Tgt Ion: 82 Resp: 1812094

Ion	Ratio	Lower	Upper
82	100		
128	44.3	35.3	52.9
54	45.9	37.4	56.0

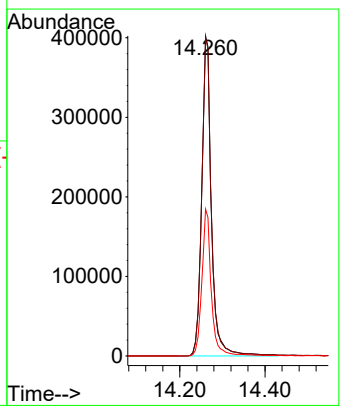


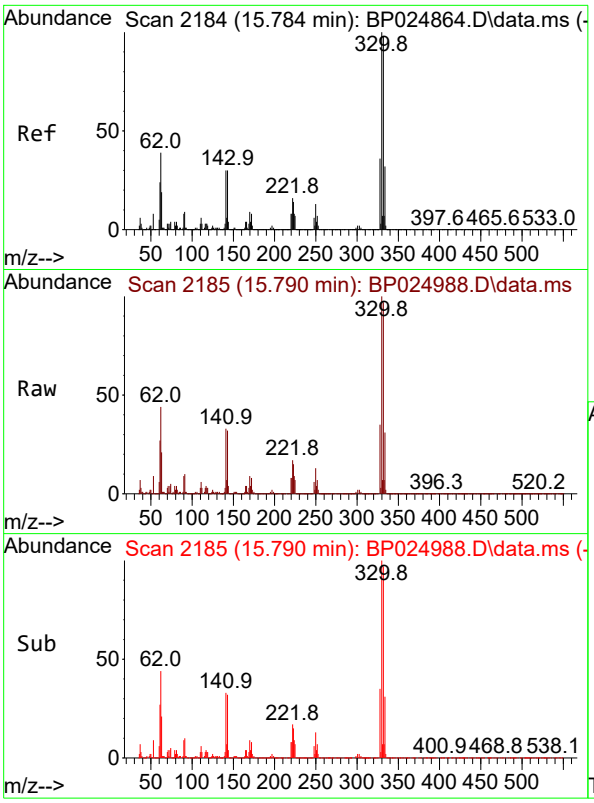


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.260 min Scan# 1925
Delta R.T. 0.012 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Tgt Ion:164 Resp: 632257

Ion	Ratio	Lower	Upper
164	100		
162	99.4	81.6	122.4
160	45.9	36.2	54.2



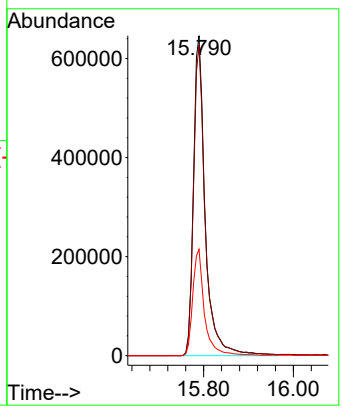


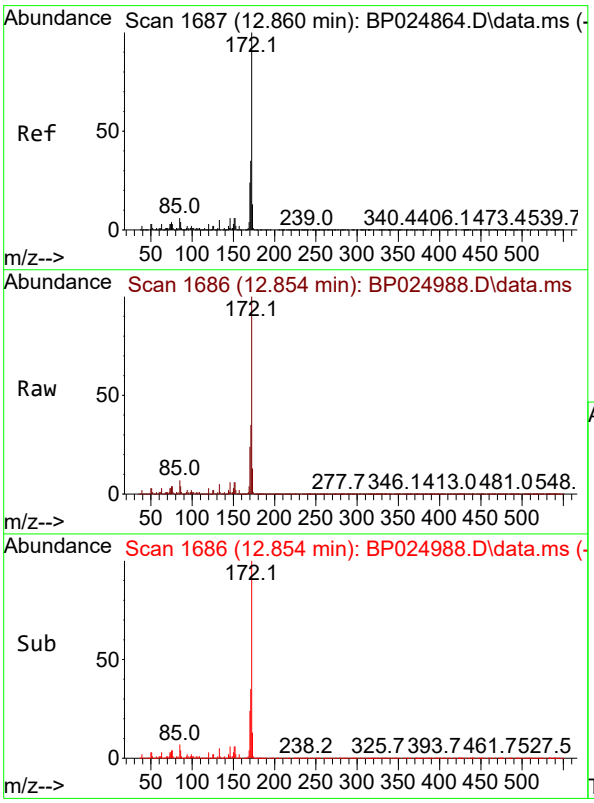
#42
2,4,6-Tribromophenol
Concen: 134.868 ng
RT: 15.790 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Tgt Ion:330 Resp: 1178919

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.7	116.5
141	33.1	26.4	39.6

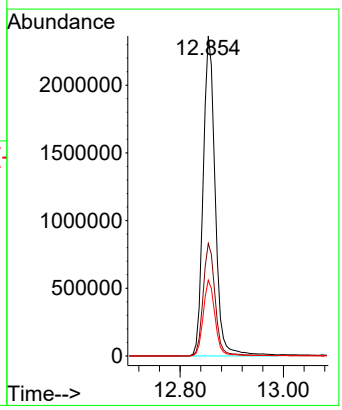


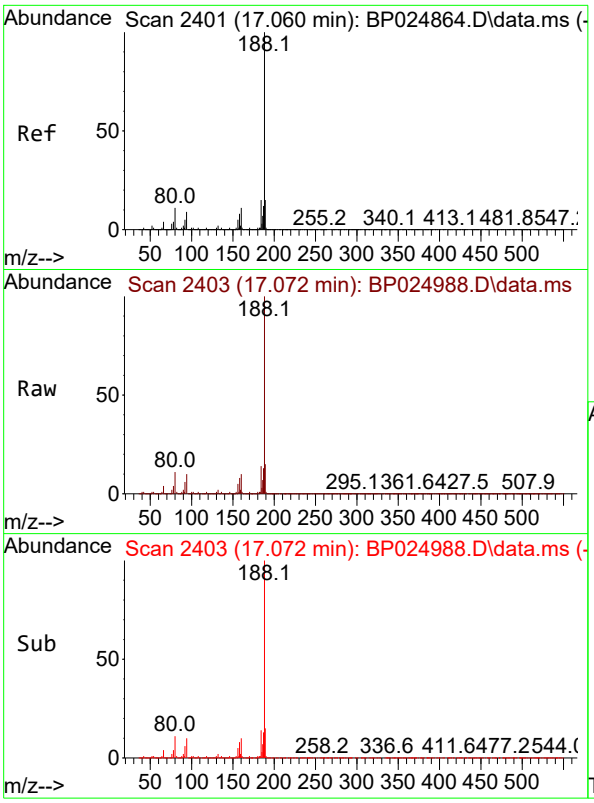


#45
2-Fluorobiphenyl
Concen: 81.499 ng
RT: 12.854 min Scan# 1686
Delta R.T. -0.006 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Tgt Ion:172 Resp: 3825055

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.3	42.5
170	23.7	19.0	28.4



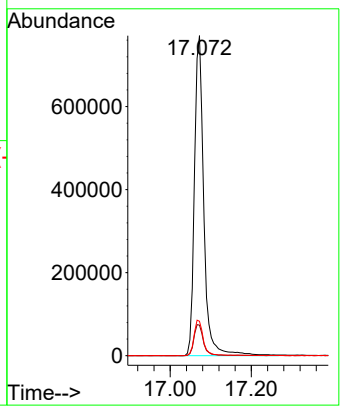


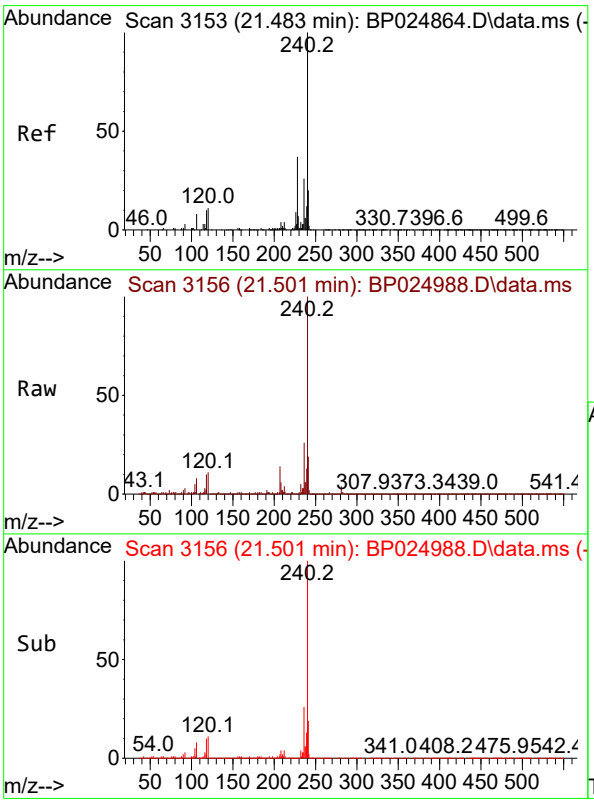
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.072 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Tgt Ion:188 Resp: 1245796

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.3	10.9
80	10.8	8.5	12.7

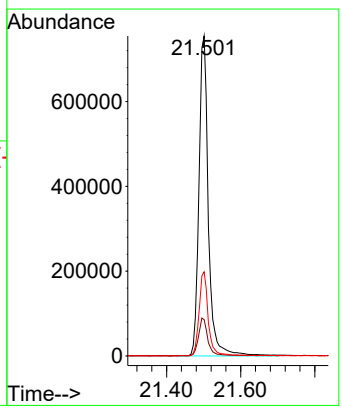


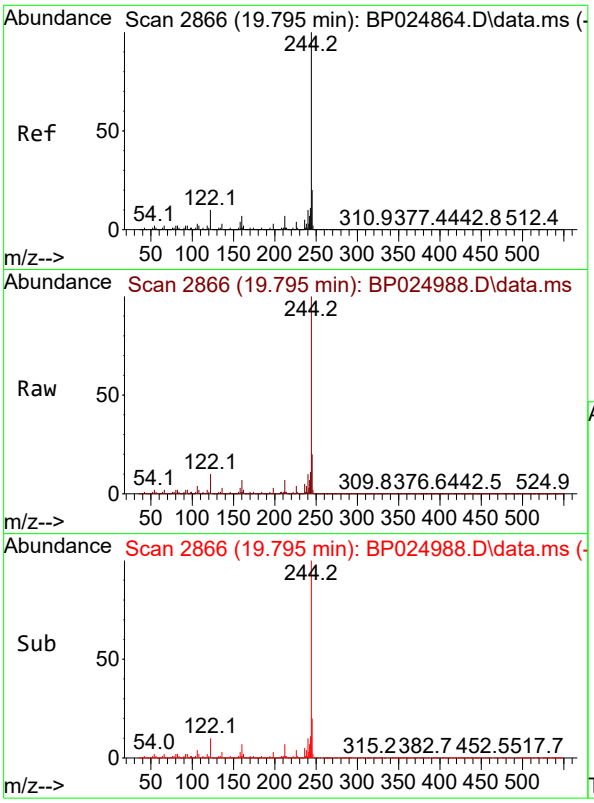


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.501 min Scan# 3156
Delta R.T. 0.018 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Tgt Ion:240 Resp: 1328391

Ion	Ratio	Lower	Upper
240	100		
120	11.4	8.9	13.3
236	26.3	20.9	31.3



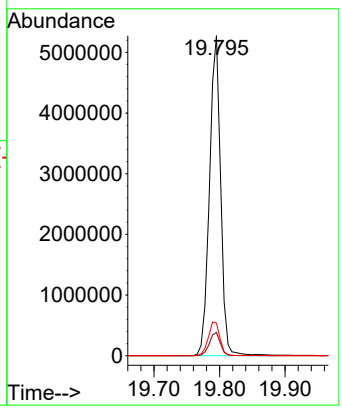


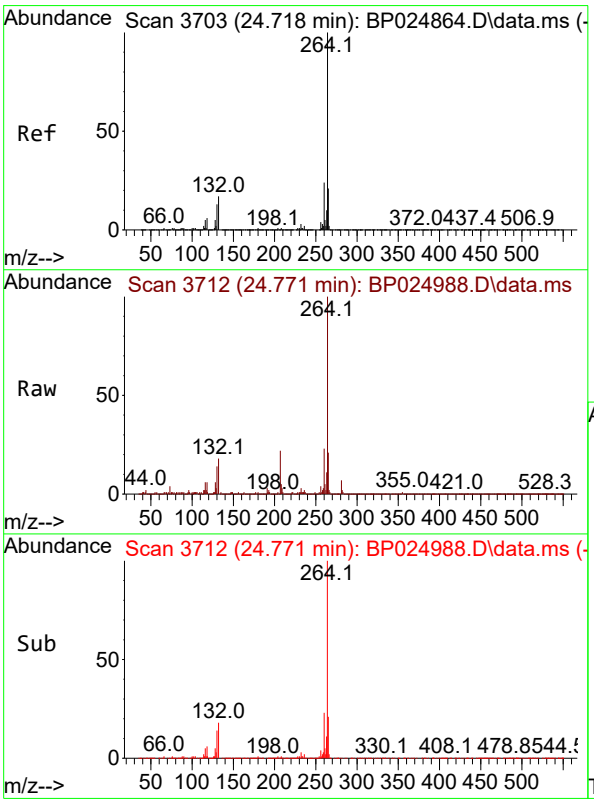
#79
Terphenyl-d14
Concen: 84.220 ng
RT: 19.795 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Instrument :
BNA_P
ClientSampleId :
PB168509BL

Tgt Ion:244 Resp: 6242246

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	10.2	7.7	11.5

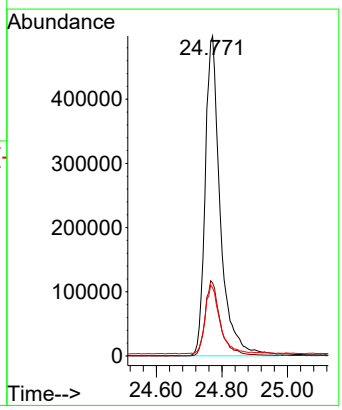




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.771 min Scan# 3712
Delta R.T. 0.053 min
Lab File: BP024988.D
Acq: 18 Jun 2025 10:36

Tgt Ion:264 Resp: 1595374

Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.0	28.4
265	21.3	17.4	26.0



Raw Data: **BP024989.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	PB168509BS	SDG No.:	Q2333
Lab Sample ID:	PB168509BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024989.D	1	06/17/25 09:25	06/18/25 11:17	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	49.0		0.75	5.00	ug/L
83-32-9	Acenaphthene	48.5		0.55	5.00	ug/L
86-73-7	Fluorene	48.5		0.63	5.00	ug/L
85-01-8	Phenanthrene	47.9		0.50	5.00	ug/L
120-12-7	Anthracene	48.9		0.61	5.00	ug/L
206-44-0	Fluoranthene	47.8		0.82	5.00	ug/L
129-00-0	Pyrene	50.5		0.50	5.00	ug/L
56-55-3	Benzo(a)anthracene	49.9		0.45	5.00	ug/L
218-01-9	Chrysene	49.8		0.44	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	48.3		0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	49.9		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	49.3		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.5		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.9		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.7		0.69	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.7		67 - 132	85%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.5		52 - 132	86%	SPK: 100
1718-51-0	Terphenyl-d14	88.9		42 - 152	89%	SPK: 100

CAS Number	Parameter	Conc.	Qualifier
INTERNAL STANDARDS			
3855-82-1	1,4-Dichlorobenzene-d4	309000	7.608
1146-65-2	Naphthalene-d8	1190000	10.378
15067-26-2	Acenaphthene-d10	709000	14.254
1517-22-2	Phenanthrene-d10	1340000	17.066
1719-03-5	Chrysene-d12	1330000	21.495
1520-96-3	Perylene-d12	1580000	24.777

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

Report of Analysis

Client:	LiRo Engineers, Inc.			Date Collected:	
Project:	RFK Bridge RMB-Randall Island			Date Received:	
Client Sample ID:	PB168509BS			SDG No.:	Q2333
Lab Sample ID:	PB168509BS			Matrix:	Water
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
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
BP024989.D	1	06/17/25 09:25	06/18/25 11:17	PB168509

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_P\Data\BP061825\
Data File : BP024989.D
Acq On : 18 Jun 2025 11:17
Operator : RC/JU
Sample : PB168509BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BS

Quant Time: Jun 18 11:50:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.608	152	309420	20.000	ng		0.00
21) Naphthalene-d8	10.378	136	1193314	20.000	ng		0.00
39) Acenaphthene-d10	14.254	164	709072	20.000	ng		0.00
64) Phenanthrene-d10	17.066	188	1338627	20.000	ng		0.00
76) Chrysene-d12	21.495	240	1331587	20.000	ng		0.01
86) Perylene-d12	24.777	264	1579124	20.000	ng		0.06
System Monitoring Compounds							
5) 2-Fluorophenol	5.243	112	2704169	145.879	ng		0.00
7) Phenol-d6	6.819	99	3345661	136.411	ng		0.00
23) Nitrobenzene-d5	8.766	82	2080312	84.713	ng		0.00
42) 2,4,6-Tribromophenol	15.790	330	1389795	141.768	ng		0.00
45) 2-Fluorobiphenyl	12.866	172	4501012	85.512	ng		0.00
79) Terphenyl-d14	19.789	244	6601913	88.858	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.167	88	308068	37.770	ng		99
3) Pyridine	3.561	79	805939	41.087	ng		100
4) n-Nitrosodimethylamine	3.478	42	361871	45.125	ng		97
6) Aniline	6.949	93	973946	31.117	ng		100
8) 2-Chlorophenol	7.190	128	1027438	48.893	ng		99
9) Benzaldehyde	6.766	77	682049	48.246	ng		99
10) Phenol	6.843	94	1213888	48.010	ng		99
11) bis(2-Chloroethyl)ether	7.043	93	940203	47.279	ng		98
12) 1,3-Dichlorobenzene	7.496	146	1072780	45.762	ng		99
13) 1,4-Dichlorobenzene	7.643	146	1082870	45.780	ng		99
14) 1,2-Dichlorobenzene	7.955	146	1052099	45.296	ng		100
15) Benzyl Alcohol	7.861	79	864354	45.919	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.131	45	1206921	46.369	ng		99
17) 2-Methylphenol	8.072	107	824188	46.680	ng		98
18) Hexachloroethane	8.660	117	414158	46.506	ng		97
19) n-Nitroso-di-n-propyla...	8.413	70	707817	42.452	ng		100
20) 3+4-Methylphenols	8.402	107	1093103	45.378	ng		98
22) Acetophenone	8.431	105	1422096	47.168	ng	#	99
24) Nitrobenzene	8.808	77	1046154	47.953	ng		99
25) Isophorone	9.325	82	1952701	45.881	ng		99
26) 2-Nitrophenol	9.508	139	544012	50.539	ng		98
27) 2,4-Dimethylphenol	9.584	122	898232	48.757	ng		98
28) bis(2-Chloroethoxy)met...	9.802	93	1207815	47.574	ng		99
29) 2,4-Dichlorophenol	10.066	162	906305	51.272	ng		98
30) 1,2,4-Trichlorobenzene	10.243	180	937229	47.009	ng		99
31) Naphthalene	10.425	128	2861158	46.787	ng		99
32) Benzoic acid	9.796	122	663726m	53.315	ng		
33) 4-Chloroaniline	10.560	127	693245	27.058	ng		99
34) Hexachlorobutadiene	10.702	225	575351	47.881	ng		99
35) Caprolactam	11.366	113	307041	47.188	ng		98
36) 4-Chloro-3-methylphenol	11.713	107	989405	48.528	ng		99
37) 2-Methylnaphthalene	12.049	142	1801384	46.439	ng		100
38) 1-Methylnaphthalene	12.272	142	1904088	45.913	ng		99
40) 1,2,4,5-Tetrachloroben...	12.425	216	1005861	49.992	ng		99
41) Hexachlorocyclopentadiene	12.396	237	1126578	91.800	ng		99
43) 2,4,6-Trichlorophenol	12.690	196	699672	51.781	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024989.D
Acq On : 18 Jun 2025 11:17
Operator : RC/JU
Sample : PB168509BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BS

Quant Time: Jun 18 11:50:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

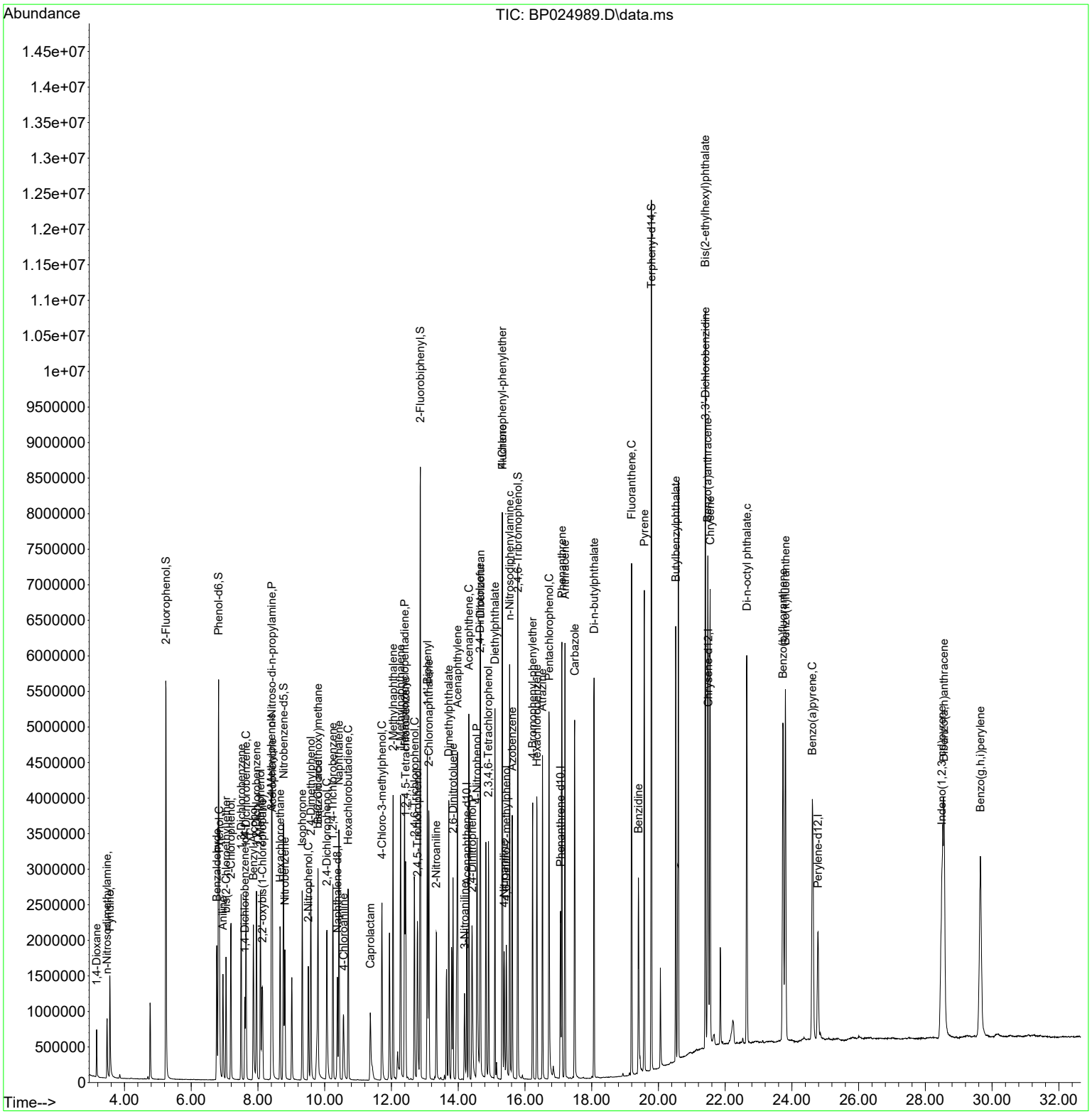
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.778	196	764616	52.839	ng		99
46) 1,1'-Biphenyl	13.078	154	2524113	48.983	ng		100
47) 2-Chloronaphthalene	13.119	162	1944096	49.087	ng		100
48) 2-Nitroaniline	13.343	65	632337	51.933	ng		99
49) Acenaphthylene	13.978	152	3232731	48.954	ng		100
50) Dimethylphthalate	13.719	163	2531055	48.389	ng		100
51) 2,6-Dinitrotoluene	13.843	165	564954	50.101	ng		96
52) Acenaphthene	14.319	154	1834580	48.482	ng		99
53) 3-Nitroaniline	14.190	138	363148	31.033	ng		99
54) 2,4-Dinitrophenol	14.419	184	719127	96.691	ng		94
55) Dibenzofuran	14.666	168	2877777	47.378	ng		99
56) 4-Nitrophenol	14.560	139	798417	80.552	ng		99
57) 2,4-Dinitrotoluene	14.654	165	785424	49.793	ng		96
58) Fluorene	15.325	166	2378210	48.467	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.907	232	649158	50.209	ng		99
60) Diethylphthalate	15.101	149	2542199	48.767	ng		99
61) 4-Chlorophenyl-phenyle...	15.319	204	1164492	48.537	ng		97
62) 4-Nitroaniline	15.378	138	535159	50.437	ng		93
63) Azobenzene	15.619	77	2370428	49.580	ng		98
65) 4,6-Dinitro-2-methylph...	15.442	198	452862	51.485	ng		94
66) n-Nitrosodiphenylamine	15.542	169	2074398	49.996	ng		100
67) 4-Bromophenyl-phenylether	16.231	248	759046	50.254	ng		98
68) Hexachlorobenzene	16.360	284	887262	48.456	ng		98
69) Atrazine	16.525	200	763110	50.734	ng		100
70) Pentachlorophenol	16.725	266	1083016	114.283	ng		98
71) Phenanthrene	17.107	178	3545911	47.934	ng		100
72) Anthracene	17.201	178	3662891	48.891	ng		99
73) Carbazole	17.489	167	3452964	49.724	ng		100
74) Di-n-butylphthalate	18.072	149	4352822	50.592	ng		99
75) Fluoranthene	19.195	202	4094838	47.759	ng		99
77) Benzidine	19.401	184	1983301	48.090	ng		99
78) Pyrene	19.578	202	4198037	50.463	ng		100
80) Butylbenzylphthalate	20.519	149	2039190	53.514	ng		98
81) Benzo(a)anthracene	21.477	228	4248221	49.882	ng		100
82) 3,3'-Dichlorobenzidine	21.413	252	1156750	34.212	ng		99
83) Chrysene	21.548	228	4021634	49.836	ng		99
84) Bis(2-ethylhexyl)phtha...	21.407	149	2977758	54.542	ng		100
85) Di-n-octyl phthalate	22.648	149	5200346	54.040	ng		100
87) Indeno(1,2,3-cd)pyrene	28.495	276	5592265	48.537	ng	#	77
88) Benzo(b)fluoranthene	23.730	252	4361125m	48.257	ng		
89) Benzo(k)fluoranthene	23.807	252	4588751	49.882	ng		99
90) Benzo(a)pyrene	24.613	252	4350004	49.288	ng		100
91) Dibenzo(a,h)anthracene	28.559	278	4586767	48.908	ng		99
92) Benzo(g,h,i)perylene	29.648	276	4440584	47.722	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024989.D
Acq On : 18 Jun 2025 11:17
Operator : RC/JU
Sample : PB168509BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BS

Quant Time: Jun 18 11:50:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



Raw Data: **BP024990.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	PB168509BSD	SDG No.:	Q2333
Lab Sample ID:	PB168509BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024990.D	1	06/17/25 09:25	06/18/25 11:58	PB168509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	45.4		0.75	5.00	ug/L
83-32-9	Acenaphthene	45.0		0.55	5.00	ug/L
86-73-7	Fluorene	44.9		0.63	5.00	ug/L
85-01-8	Phenanthrene	46.2		0.50	5.00	ug/L
120-12-7	Anthracene	46.6		0.61	5.00	ug/L
206-44-0	Fluoranthene	45.7		0.82	5.00	ug/L
129-00-0	Pyrene	50.1		0.50	5.00	ug/L
56-55-3	Benzo(a)anthracene	47.6		0.45	5.00	ug/L
218-01-9	Chrysene	46.0		0.44	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	47.7		0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	46.5		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.8		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.2		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.6		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	48.0		0.69	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	79.6		67 - 132	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.8		52 - 132	78%	SPK: 100
1718-51-0	Terphenyl-d14	85.9		42 - 152	86%	SPK: 100

CAS Number	Parameter	Conc.	Qualifier
INTERNAL STANDARDS			
3855-82-1	1,4-Dichlorobenzene-d4	300000	7.602
1146-65-2	Naphthalene-d8	1170000	10.372
15067-26-2	Acenaphthene-d10	733000	14.254
1517-22-2	Phenanthrene-d10	1400000	17.066
1719-03-5	Chrysene-d12	1370000	21.507
1520-96-3	Perylene-d12	1570000	24.766

Raw Data: **BP024990.D**

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

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	PB168509BSD	SDG No.:	Q2333
Lab Sample ID:	PB168509BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BP024990.D	1	06/17/25 09:25	06/18/25 11:58	PB168509

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_P\Data\BP061825\
Data File : BP024990.D
Acq On : 18 Jun 2025 11:58
Operator : RC/JU
Sample : PB168509BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BSD

Quant Time: Jun 18 12:31:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.602	152	299910	20.000	ng		-0.01
21) Naphthalene-d8	10.372	136	1166185	20.000	ng		0.00
39) Acenaphthene-d10	14.254	164	733128	20.000	ng		0.00
64) Phenanthrene-d10	17.066	188	1403510	20.000	ng		0.00
76) Chrysene-d12	21.507	240	1366565	20.000	ng		0.02
86) Perylene-d12	24.766	264	1569185	20.000	ng		0.05
System Monitoring Compounds							
5) 2-Fluorophenol	5.237	112	2484145	138.259	ng		0.00
7) Phenol-d6	6.819	99	3107179	130.704	ng		0.00
23) Nitrobenzene-d5	8.761	82	1911090	79.632	ng		0.00
42) 2,4,6-Tribromophenol	15.790	330	1418398	139.938	ng		0.00
45) 2-Fluorobiphenyl	12.860	172	4232186	77.766	ng		0.00
79) Terphenyl-d14	19.795	244	6553125	85.944	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.167	88	284045	35.929	ng		99
3) Pyridine	3.561	79	743327	39.096	ng		99
4) n-Nitrosodimethylamine	3.478	42	328630	42.279	ng		92
6) Aniline	6.949	93	1235775	40.734	ng		100
8) 2-Chlorophenol	7.184	128	941400	46.219	ng		99
9) Benzaldehyde	6.767	77	633247	46.215	ng		99
10) Phenol	6.843	94	1117619	45.604	ng		97
11) bis(2-Chloroethyl)ether	7.043	93	844984	43.838	ng		100
12) 1,3-Dichlorobenzene	7.496	146	970740	42.722	ng		98
13) 1,4-Dichlorobenzene	7.637	146	984634	42.947	ng		100
14) 1,2-Dichlorobenzene	7.949	146	950737	42.230	ng		99
15) Benzyl Alcohol	7.861	79	803144	44.020	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.119	45	1073541	42.553	ng		99
17) 2-Methylphenol	8.072	107	766377	44.782	ng		98
18) Hexachloroethane	8.661	117	368133	42.649	ng		96
19) n-Nitroso-di-n-propyla...	8.408	70	651176	40.293	ng		99
20) 3+4-Methylphenols	8.396	107	1028161	44.036	ng		96
22) Acetophenone	8.425	105	1302962	44.222	ng	#	99
24) Nitrobenzene	8.802	77	971781	45.580	ng		97
25) Isophorone	9.319	82	1812664	43.581	ng		100
26) 2-Nitrophenol	9.508	139	499027	47.438	ng		97
27) 2,4-Dimethylphenol	9.578	122	854286	47.451	ng		98
28) bis(2-Chloroethoxy)met...	9.796	93	1119193	45.109	ng		98
29) 2,4-Dichlorophenol	10.055	162	850742	49.248	ng		99
30) 1,2,4-Trichlorobenzene	10.243	180	854980	43.881	ng		99
31) Naphthalene	10.425	128	2621431	43.864	ng		100
32) Benzoic acid	9.790	122	624830	51.358	ng		100
33) 4-Chloroaniline	10.555	127	1047248	41.826	ng		99
34) Hexachlorobutadiene	10.696	225	525402	44.741	ng		100
35) Caprolactam	11.366	113	308074	48.449	ng		99
36) 4-Chloro-3-methylphenol	11.707	107	972619	48.814	ng		99
37) 2-Methylnaphthalene	12.043	142	1675151	44.189	ng		100
38) 1-Methylnaphthalene	12.266	142	1757465	43.363	ng		99
40) 1,2,4,5-Tetrachloroben...	12.419	216	927674	44.594	ng		99
41) Hexachlorocyclopentadiene	12.390	237	1047895	82.587	ng		99
43) 2,4,6-Trichlorophenol	12.678	196	681683	48.794	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024990.D
Acq On : 18 Jun 2025 11:58
Operator : RC/JU
Sample : PB168509BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BSD

Quant Time: Jun 18 12:31:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

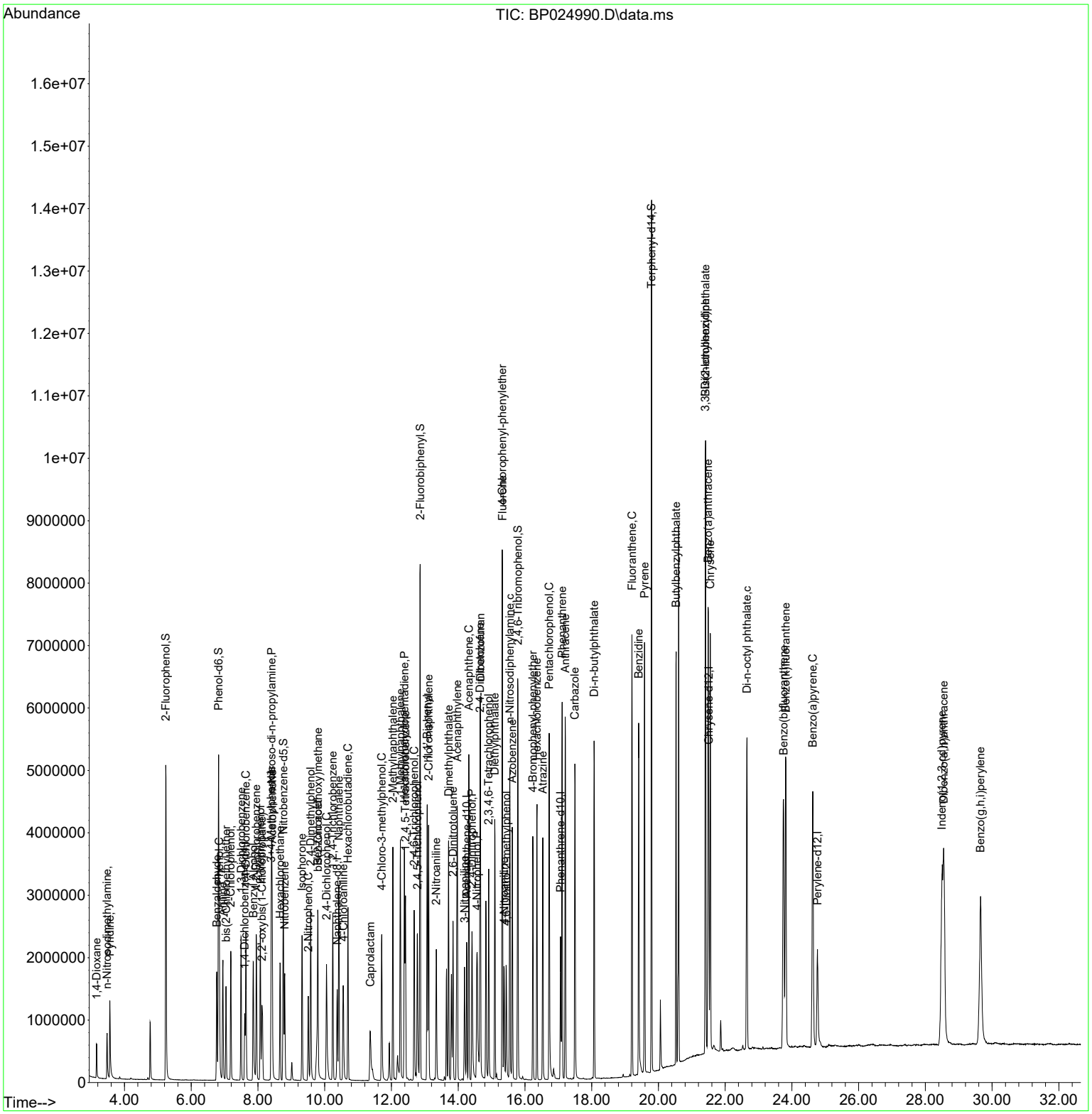
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.778	196	748555	50.032	ng	97
46) 1,1'-Biphenyl	13.072	154	2383854	44.744	ng	100
47) 2-Chloronaphthalene	13.113	162	1819971	44.445	ng	99
48) 2-Nitroaniline	13.343	65	627063	49.810	ng	98
49) Acenaphthylene	13.972	152	3099280	45.393	ng	99
50) Dimethylphthalate	13.713	163	2498151	46.192	ng	100
51) 2,6-Dinitrotoluene	13.843	165	560816	48.102	ng	98
52) Acenaphthene	14.319	154	1758762	44.953	ng	99
53) 3-Nitroaniline	14.190	138	543051	44.884	ng	95
54) 2,4-Dinitrophenol	14.413	184	742251	96.535	ng	95
55) Dibenzofuran	14.666	168	2803128	44.634	ng	99
56) 4-Nitrophenol	14.560	139	815107	79.606	ng	97
57) 2,4-Dinitrotoluene	14.654	165	799291	49.010	ng	96
58) Fluorene	15.325	166	2275415	44.851	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.913	232	645957	48.322	ng	99
60) Diethylphthalate	15.095	149	2563286	47.558	ng	98
61) 4-Chlorophenyl-phenyle...	15.319	204	1141757	46.028	ng	96
62) 4-Nitroaniline	15.378	138	568319	51.805	ng	93
63) Azobenzene	15.619	77	2344933	47.437	ng	99
65) 4,6-Dinitro-2-methylph...	15.443	198	460759	49.961	ng	99
66) n-Nitrosodiphenylamine	15.548	169	2088138	48.001	ng	99
67) 4-Bromophenyl-phenylether	16.237	248	758651	47.906	ng	98
68) Hexachlorobenzene	16.360	284	890805	46.401	ng	98
69) Atrazine	16.537	200	786664	49.882	ng	99
70) Pentachlorophenol	16.725	266	1096155	110.322	ng	99
71) Phenanthrene	17.113	178	3580172	46.160	ng	99
72) Anthracene	17.207	178	3659978	46.594	ng	99
73) Carbazole	17.495	167	3477343	47.760	ng	100
74) Di-n-butylphthalate	18.072	149	4364669	48.384	ng	100
75) Fluoranthene	19.207	202	4111368	45.735	ng	99
77) Benzidine	19.407	184	3332482	78.736	ng	100
78) Pyrene	19.584	202	4274371	50.066	ng	100
80) Butylbenzylphthalate	20.531	149	1996163	51.044	ng	97
81) Benzo(a)anthracene	21.489	228	4162196	47.621	ng	100
82) 3,3'-Dichlorobenzidine	21.407	252	1476481	42.551	ng	98
83) Chrysene	21.554	228	3811592	46.024	ng	99
84) Bis(2-ethylhexyl)phtha...	21.413	149	2841879	50.721	ng	100
85) Di-n-octyl phthalate	22.654	149	4930399	49.924	ng	99
87) Indeno(1,2,3-cd)pyrene	28.495	276	5516053	48.179	ng	99
88) Benzo(b)fluoranthene	23.748	252	4287694	47.745	ng	99
89) Benzo(k)fluoranthene	23.813	252	4251992	46.514	ng	99
90) Benzo(a)pyrene	24.624	252	4192073	47.799	ng	100
91) Dibenzo(a,h)anthracene	28.548	278	4526985	48.577	ng	99
92) Benzo(g,h,i)perylene	29.654	276	4442192	48.042	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061825\
Data File : BP024990.D
Acq On : 18 Jun 2025 11:58
Operator : RC/JU
Sample : PB168509BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168509BSD

Quant Time: Jun 18 12:31:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



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Manual Integration Report

Sequence:	BF061125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF142714.D	2,3,4,6-Tetrachlorophenol	Rahul	6/11/2025 9:18:06 AM	Jagrut	6/11/2025 9:58:06 AM	Peak Integrated by Software
SSTDICC080	BF142719.D	Caprolactam	Rahul	6/11/2025 9:18:10 AM	Jagrut	6/11/2025 9:58:02 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf061825	Instrument	BNA_f

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

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Manual Integration Report

Sequence:	BP060625	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024861.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:51:15 AM	Jagrut	6/9/2025 12:08:47 PM	Peak Integrated by Software
SSTDICC005	BP024861.D	4-Nitroaniline	Rahul	6/9/2025 10:51:15 AM	Jagrut	6/9/2025 12:08:47 PM	Peak Integrated by Software
SSTDICC010	BP024862.D	Benzaldehyde	Rahul	6/9/2025 10:51:18 AM	Jagrut	6/9/2025 12:08:50 PM	Peak Integrated by Software
SSTDICC010	BP024862.D	Benzo(b)fluoranthene	Rahul	6/9/2025 10:51:18 AM	Jagrut	6/9/2025 12:08:50 PM	Peak Integrated by Software
SSTDICC010	BP024862.D	Benzoic acid	Rahul	6/9/2025 10:51:18 AM	Jagrut	6/9/2025 12:08:50 PM	Peak Integrated by Software
SSTDICC020	BP024863.D	Benzaldehyde	Rahul	6/9/2025 10:51:20 AM	Jagrut	6/9/2025 12:08:52 PM	Peak Integrated by Software
SSTDICV040	BP024868.D	Benzaldehyde	Rahul	6/9/2025 10:51:26 AM	Jagrut	6/9/2025 12:08:55 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bp061825	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168509BS	BP024989.D	Benzo(b)fluoranthene	anahy	6/19/2025 8:57:28 AM			Peak Integrated by Software
PB168509BS	BP024989.D	Benzoic acid	anahy	6/19/2025 8:57:28 AM			Peak Integrated by Software
Q2333-05	BP024998.D	Benzoic acid	anahy	6/19/2025 9:00:20 AM			Peak Integrated by Software
Q2333-02	BP025000.D	1-Methylnaphthalene	anahy	6/19/2025 9:01:17 AM			Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM				
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM				
SubDirectory	BF061125	HP Acquire Method	BNA_F		HP Processing Method	BF061125	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142710.D	10 Jun 2025 15:42	RC/JU	Ok
2	SSTDCCC040	BF142711.D	10 Jun 2025 16:11	RC/JU	Not Ok
3	SSTDICC2.5	BF142712.D	10 Jun 2025 16:54	RC/JU	Ok
4	SSTDICC005	BF142713.D	10 Jun 2025 17:24	RC/JU	Ok
5	SSTDICC010	BF142714.D	10 Jun 2025 17:53	RC/JU	Ok,M
6	SSTDICC020	BF142715.D	10 Jun 2025 18:22	RC/JU	Ok
7	SSTDICCC040	BF142716.D	10 Jun 2025 18:52	RC/JU	Ok
8	SSTDICC050	BF142717.D	10 Jun 2025 19:21	RC/JU	Ok
9	SSTDICC060	BF142718.D	10 Jun 2025 19:50	RC/JU	Ok
10	SSTDICC080	BF142719.D	10 Jun 2025 20:19	RC/JU	Ok,M
11	SSTDICV040	BF142720.D	10 Jun 2025 20:49	RC/JU	Ok
12	PB168323BL	BF142721.D	10 Jun 2025 21:47	RC/JU	Ok
13	DFTPP	BF142722.D	11 Jun 2025 08:56	RC/JU	Ok
14	SSTDCCC040	BF142723.D	11 Jun 2025 09:24	RC/JU	Ok
15	PB168376BL	BF142724.D	11 Jun 2025 09:53	RC/JU	Ok
16	PB168376BS	BF142725.D	11 Jun 2025 10:22	RC/JU	Ok,M
17	PB168234BS	BF142726.D	11 Jun 2025 10:51	RC/JU	Ok,M
18	PB168285BS	BF142727.D	11 Jun 2025 11:21	RC/JU	Ok,M
19	PB168285BSD	BF142728.D	11 Jun 2025 11:50	RC/JU	Ok,M
20	PB168378BS	BF142729.D	11 Jun 2025 12:19	RC/JU	Ok,M
21	PB168378BSD	BF142730.D	11 Jun 2025 12:49	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB168378BL	BF142731.D	11 Jun 2025 13:18	RC/JU	Ok
23	Q2264-04	BF142732.D	11 Jun 2025 13:52	RC/JU	Ok
24	Q2268-10	BF142733.D	11 Jun 2025 14:21	RC/JU	Ok
25	Q2268-03	BF142734.D	11 Jun 2025 14:50	RC/JU	Dilution
26	Q2268-04MS	BF142735.D	11 Jun 2025 15:20	RC/JU	Ok,M
27	Q2268-05MSD	BF142736.D	11 Jun 2025 15:50	RC/JU	Ok
28	Q2268-06	BF142737.D	11 Jun 2025 16:19	RC/JU	Dilution
29	Q2268-07	BF142738.D	11 Jun 2025 16:49	RC/JU	Dilution
30	Q2268-08	BF142739.D	11 Jun 2025 17:19	RC/JU	Dilution
31	Q2273-01	BF142740.D	11 Jun 2025 17:49	RC/JU	Ok
32	Q2273-05	BF142741.D	11 Jun 2025 18:18	RC/JU	Ok
33	Q2273-05MS	BF142742.D	11 Jun 2025 18:48	RC/JU	Ok
34	Q2273-05MSD	BF142743.D	11 Jun 2025 19:18	RC/JU	Ok
35	Q2268-03DL	BF142744.D	11 Jun 2025 19:48	RC/JU	Ok
36	Q2268-03	BF142745.D	11 Jun 2025 20:17	RC/JU	Not Ok
37	Q2280-01	BF142746.D	11 Jun 2025 20:47	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061825

Review By	Rahul	Review On	6/19/2025 9:13:44 AM				
Supervise By		Supervise On					
SubDirectory	BF061825	HP Acquire Method	BNA_F			HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12670,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142771.D	18 Jun 2025 11:19	RC/JU	Ok
2	SSTDCCC040	BF142772.D	18 Jun 2025 11:48	RC/JU	Ok
3	PB168497TB	BF142773.D	18 Jun 2025 12:17	RC/JU	Ok
4	PB168505BL	BF142774.D	18 Jun 2025 12:46	RC/JU	Ok
5	PB168505BS	BF142775.D	18 Jun 2025 13:16	RC/JU	Ok,NS
6	Q2333-01	BF142776.D	18 Jun 2025 13:49	RC/JU	Ok
7	Q2333-03	BF142777.D	18 Jun 2025 14:19	RC/JU	Ok
8	Q2333-04	BF142778.D	18 Jun 2025 14:49	RC/JU	Ok
9	Q2341-01	BF142779.D	18 Jun 2025 15:18	RC/JU	Ok
10	Q2339-04	BF142780.D	18 Jun 2025 16:34	RC/JU	Ok
11	Q2339-04MS	BF142781.D	18 Jun 2025 17:03	RC/JU	Ok,NS
12	Q2339-04MSD	BF142782.D	18 Jun 2025 17:33	RC/JU	Ok,NS
13	Q2340-04	BF142783.D	18 Jun 2025 18:03	RC/JU	Ok
14	Q2341-04	BF142784.D	18 Jun 2025 18:33	RC/JU	Ok,NS
15	Q2341-08	BF142785.D	18 Jun 2025 19:03	RC/JU	Ok,NS
16	Q2347-04	BF142786.D	18 Jun 2025 19:34	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP060625

Review By	Rahul	Review On	6/9/2025 11:36:10 AM				
Supervise By	Jagrut	Supervise On	6/9/2025 12:09:52 PM				
SubDirectory	BP060625	HP Acquire Method	BNA_P		HP Processing Method	BP060625	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024859.D	06 Jun 2025 09:49	RC/JU	Ok
2	SSTDICC2.5	BP024860.D	06 Jun 2025 10:30	RC/JU	Ok
3	SSTDICC005	BP024861.D	06 Jun 2025 11:11	RC/JU	Ok,M
4	SSTDICC010	BP024862.D	06 Jun 2025 11:52	RC/JU	Ok,M
5	SSTDICC020	BP024863.D	06 Jun 2025 12:33	RC/JU	Ok,M
6	SSTDICCC040	BP024864.D	06 Jun 2025 13:14	RC/JU	Ok
7	SSTDICC050	BP024865.D	06 Jun 2025 13:56	RC/JU	Ok
8	SSTDICC060	BP024866.D	06 Jun 2025 14:37	RC/JU	Ok
9	SSTDICC080	BP024867.D	06 Jun 2025 15:18	RC/JU	Ok
10	SSTDICV040	BP024868.D	06 Jun 2025 17:09	RC/JU	Ok,M
11	PB168259BL	BP024869.D	06 Jun 2025 17:50	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP061825

Review By	anahy	Review On	6/19/2025 9:01:38 AM				
Supervise By		Supervise On					
SubDirectory	BP061825	HP Acquire Method	BNA_P		HP Processing Method	BP060625	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12670,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024986.D	18 Jun 2025 09:15	RC/JU	Ok
2	SSTDCCC040	BP024987.D	18 Jun 2025 09:55	RC/JU	Ok
3	PB168509BL	BP024988.D	18 Jun 2025 10:36	RC/JU	Ok
4	PB168509BS	BP024989.D	18 Jun 2025 11:17	RC/JU	Ok,NS
5	PB168509BSD	BP024990.D	18 Jun 2025 11:58	RC/JU	Ok
6	PB168517BL	BP024991.D	18 Jun 2025 12:39	RC/JU	Ok
7	PB168517BS	BP024992.D	18 Jun 2025 13:20	RC/JU	Ok,NS
8	Q2312-04	BP024993.D	18 Jun 2025 14:04	RC/JU	Ok
9	Q2319-04	BP024994.D	18 Jun 2025 14:45	RC/JU	Ok
10	Q2311-04MS	BP024995.D	18 Jun 2025 15:26	RC/JU	Ok
11	Q2311-04MSD	BP024996.D	18 Jun 2025 16:08	RC/JU	Ok,NS
12	Q2325-04	BP024997.D	18 Jun 2025 16:49	RC/JU	Ok
13	Q2333-05	BP024998.D	18 Jun 2025 17:30	RC/JU	Ok,NS
14	Q2333-06	BP024999.D	18 Jun 2025 18:12	RC/JU	Ok
15	Q2333-02	BP025000.D	18 Jun 2025 18:53	RC/JU	Ok,NS
16	Q2341-05	BP025001.D	18 Jun 2025 19:34	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142710.D	10 Jun 2025 15:42		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142711.D	10 Jun 2025 16:11	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF142712.D	10 Jun 2025 16:54		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF142713.D	10 Jun 2025 17:24		RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF142714.D	10 Jun 2025 17:53		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF142715.D	10 Jun 2025 18:22		RC/JU	Ok
7	SSTDICCC040	SSTDICCC040	BF142716.D	10 Jun 2025 18:52	Calibration is Good for 8270 E, 8270 DOD and 625.1 methods.	RC/JU	Ok
8	SSTDICC050	SSTDICC050	BF142717.D	10 Jun 2025 19:21		RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF142718.D	10 Jun 2025 19:50		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF142719.D	10 Jun 2025 20:19	Compound #09 removed from 80 PPM.	RC/JU	Ok,M
11	SSTDICV040	ICVBF061125	BF142720.D	10 Jun 2025 20:49		RC/JU	Ok
12	PB168323BL	PB168323BL	BF142721.D	10 Jun 2025 21:47		RC/JU	Ok
13	DFTPP	DFTPP	BF142722.D	11 Jun 2025 08:56		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF142723.D	11 Jun 2025 09:24		RC/JU	Ok
15	PB168376BL	PB168376BL	BF142724.D	11 Jun 2025 09:53		RC/JU	Ok
16	PB168376BS	PB168376BS	BF142725.D	11 Jun 2025 10:22		RC/JU	Ok,M
17	PB168234BS	PB168234BS	BF142726.D	11 Jun 2025 10:51		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	PB168285BS	PB168285BS	BF142727.D	11 Jun 2025 11:21		RC/JU	Ok,M
19	PB168285BSD	PB168285BSD	BF142728.D	11 Jun 2025 11:50		RC/JU	Ok,M
20	PB168378BS	PB168378BS	BF142729.D	11 Jun 2025 12:19		RC/JU	Ok,M
21	PB168378BSD	PB168378BSD	BF142730.D	11 Jun 2025 12:49		RC/JU	Ok,M
22	PB168378BL	PB168378BL	BF142731.D	11 Jun 2025 13:18		RC/JU	Ok
23	Q2264-04	EF-WW	BF142732.D	11 Jun 2025 13:52	Surrogate and Internal Standard Failed	RC/JU	Ok
24	Q2268-10	FB-20250605	BF142733.D	11 Jun 2025 14:21		RC/JU	Ok
25	Q2268-03	MW-2-20250605	BF142734.D	11 Jun 2025 14:50	Need 2X Dilution	RC/JU	Dilution
26	Q2268-04MS	MW-2-20250605MS	BF142735.D	11 Jun 2025 15:20		RC/JU	Ok,M
27	Q2268-05MSD	MW-2-20250605MSD	BF142736.D	11 Jun 2025 15:50		RC/JU	Ok
28	Q2268-06	MW-2-20250605-A	BF142737.D	11 Jun 2025 16:19	Need 2X Dilution	RC/JU	Dilution
29	Q2268-07	MW-6-20250605	BF142738.D	11 Jun 2025 16:49	Internal Standard Fail, Need 2X Dilution	RC/JU	Dilution
30	Q2268-08	MW-3-20250605	BF142739.D	11 Jun 2025 17:19	Internal Standard Fail, Need 2X Dilution	RC/JU	Dilution
31	Q2273-01	WC-4	BF142740.D	11 Jun 2025 17:49		RC/JU	Ok
32	Q2273-05	WC-6	BF142741.D	11 Jun 2025 18:18		RC/JU	Ok
33	Q2273-05MS	WC-6MS	BF142742.D	11 Jun 2025 18:48		RC/JU	Ok
34	Q2273-05MSD	WC-6MSD	BF142743.D	11 Jun 2025 19:18		RC/JU	Ok
35	Q2268-03DL	MW-2-20250605DL	BF142744.D	11 Jun 2025 19:48		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	Q2268-03	MW-2-20250605	BF142745.D	11 Jun 2025 20:17	Already analyzed with OK status	RC/JU	Not Ok
37	Q2280-01	VNJ-210	BF142746.D	11 Jun 2025 20:47	Internal standard fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061825

Review By	Rahul	Review On	6/19/2025 9:13:44 AM		
Supervise By		Supervise On			
SubDirectory	BF061825	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12670,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142771.D	18 Jun 2025 11:19		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142772.D	18 Jun 2025 11:48		RC/JU	Ok
3	PB168497TB	PB168497TB	BF142773.D	18 Jun 2025 12:17		RC/JU	Ok
4	PB168505BL	PB168505BL	BF142774.D	18 Jun 2025 12:46		RC/JU	Ok
5	PB168505BS	PB168505BS	BF142775.D	18 Jun 2025 13:16		RC/JU	Ok,NS
6	Q2333-01	MW-06	BF142776.D	18 Jun 2025 13:49		RC/JU	Ok
7	Q2333-03	MW-10	BF142777.D	18 Jun 2025 14:19		RC/JU	Ok
8	Q2333-04	MW-11	BF142778.D	18 Jun 2025 14:49		RC/JU	Ok
9	Q2341-01	TP-9	BF142779.D	18 Jun 2025 15:18		RC/JU	Ok
10	Q2339-04	MH-C	BF142780.D	18 Jun 2025 16:34		RC/JU	Ok
11	Q2339-04MS	MH-CMS	BF142781.D	18 Jun 2025 17:03		RC/JU	Ok,NS
12	Q2339-04MSD	MH-CMSD	BF142782.D	18 Jun 2025 17:33		RC/JU	Ok,NS
13	Q2340-04	TP05-MH17A-WC	BF142783.D	18 Jun 2025 18:03		RC/JU	Ok
14	Q2341-04	TP-9	BF142784.D	18 Jun 2025 18:33		RC/JU	Ok,NS
15	Q2341-08	EP-3	BF142785.D	18 Jun 2025 19:03		RC/JU	Ok,NS
16	Q2347-04	TP-10-9	BF142786.D	18 Jun 2025 19:34		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP060625

Review By	Rahul	Review On	6/9/2025 11:36:10 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:09:52 PM		
SubDirectory	BP060625	HP Acquire Method	BNA_P	HP Processing Method	BP060625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024859.D	06 Jun 2025 09:49		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024860.D	06 Jun 2025 10:30		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024861.D	06 Jun 2025 11:11		RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024862.D	06 Jun 2025 11:52		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP024863.D	06 Jun 2025 12:33	Calibration is Good for 8270 E, 8270 DOD and 625.1 methods.	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BP024864.D	06 Jun 2025 13:14	Compound#54 & 56 are Kept on LR	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BP024865.D	06 Jun 2025 13:56		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BP024866.D	06 Jun 2025 14:37		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BP024867.D	06 Jun 2025 15:18		RC/JU	Ok
10	SSTDICV040	ICVBP060625	BP024868.D	06 Jun 2025 17:09		RC/JU	Ok,M
11	PB168259BL	PB168259BL	BP024869.D	06 Jun 2025 17:50		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP061825

Review By	anahy	Review On	6/19/2025 9:01:38 AM		
Supervise By		Supervise On			
SubDirectory	BP061825	HP Acquire Method	BNA_P	HP Processing Method	BP060625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12670,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024986.D	18 Jun 2025 09:15		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024987.D	18 Jun 2025 09:55		RC/JU	Ok
3	PB168509BL	PB168509BL	BP024988.D	18 Jun 2025 10:36		RC/JU	Ok
4	PB168509BS	PB168509BS	BP024989.D	18 Jun 2025 11:17		RC/JU	Ok,NS
5	PB168509BSD	PB168509BSD	BP024990.D	18 Jun 2025 11:58		RC/JU	Ok
6	PB168517BL	PB168517BL	BP024991.D	18 Jun 2025 12:39		RC/JU	Ok
7	PB168517BS	PB168517BS	BP024992.D	18 Jun 2025 13:20		RC/JU	Ok,NS
8	Q2312-04	TP-1	BP024993.D	18 Jun 2025 14:04		RC/JU	Ok
9	Q2319-04	MH-B	BP024994.D	18 Jun 2025 14:45		RC/JU	Ok
10	Q2311-04MS	TP03-MH2MH3-WCMS	BP024995.D	18 Jun 2025 15:26		RC/JU	Ok
11	Q2311-04MSD	TP03-MH2MH3-WCMS	BP024996.D	18 Jun 2025 16:08		RC/JU	Ok,NS
12	Q2325-04	TP-8	BP024997.D	18 Jun 2025 16:49		RC/JU	Ok
13	Q2333-05	MW-13	BP024998.D	18 Jun 2025 17:30		RC/JU	Ok,NS
14	Q2333-06	MW-12	BP024999.D	18 Jun 2025 18:12		RC/JU	Ok
15	Q2333-02	MW-08	BP025000.D	18 Jun 2025 18:53		RC/JU	Ok,NS
16	Q2341-05	EP-3	BP025001.D	18 Jun 2025 19:34		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168509

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 06/17/2025

Extraction Start Time : 09:25

Extraction End Date : 06/17/2025

Extraction End Time : 14:25

Concentration By: EH

Supervisor By : rajesh

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6794
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3943
Baked Na2SO4	N/A	EP2620
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
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:

pH Adjusted to < 2 with 1:1 H2SO4 & >12 with 10N NaOH , 1.5ML Vial Lot # 2210443.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/17/25	RP (Ext Lab)	RC/SVOC
14:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168509

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 06/17/2025

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168509BL	SBLK509	SVOCMS Group1	1000	6	RUPESH	ritesh	1			SEP-1
PB168509BS	SLCS509	SVOCMS Group1	1000	6	RUPESH	ritesh	1			2
PB168509BSD	SLCSD509	SVOCMS Group1	1000	6	RUPESH	ritesh	1			3
Q2333-01	MW-06	SVOCMS Group1	1000	6	RUPESH	ritesh	1	E		4
Q2333-02	MW-08	SVOCMS Group1	980	6	RUPESH	ritesh	1	E		5
Q2333-03	MW-10	SVOCMS Group1	990	6	RUPESH	ritesh	1	E		6
Q2333-04	MW-11	SVOCMS Group1	1000	6	RUPESH	ritesh	1	E		7
Q2333-05	MW-13	SVOCMS Group1	970	6	RUPESH	ritesh	1	E		8
Q2333-06	MW-12	SVOCMS Group1	1000	6	RUPESH	ritesh	1	E		9

6/17/25

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

168509
9:25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2337S **WorkList ID :** 190236 **Department :** Extraction **Date :** 06-17-2025 08:55:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2333-01	MW-06	Water	SVOCMS Group1	Cool 4 deg C	LIRO01	D51	06/12/2025	8270E
Q2333-02	MW-08	Water	SVOCMS Group1	Cool 4 deg C	LIRO01	D51	06/12/2025	8270E
Q2333-03	MW-10	Water	SVOCMS Group1	Cool 4 deg C	LIRO01	D51	06/12/2025	8270E
Q2333-04	MW-11	Water	SVOCMS Group1	Cool 4 deg C	LIRO01	D51	06/12/2025	8270E
Q2333-05	MW-13	Water	SVOCMS Group1	Cool 4 deg C	LIRO01	D51	06/12/2025	8270E
Q2333-06	MW-12	Water	SVOCMS Group1	Cool 4 deg C	LIRO01	D51	06/12/2025	8270E

Date/Time 06/17/25 9:20
Raw Sample Received by: RJ (Sgt 1st)
Raw Sample Relinquished by:

Date/Time 06/17/25 10:40
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Sgt 1st)

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q2333

COC Number:

CLIENT INFORMATION

COMPANY: Liro Environmental Inc.
ADDRESS: 690 Delaware Ave
CITY: Buffalo STATE: NY ZIP: 14209
ATTENTION: Martin Wesolowski
PHONE:716.970.4273 FAX:716.882.9640

PROJECT INFORMATION

PROJECT NAME: RMB, RFK Bridge Randall's Island
PROJECT #: RMB-2023 LOCATION: NY
PROJECT MANAGER: Martin Wesolowski
E-MAIL: Wesolowskim@liro.com
PHONE:716-970-9640 FAX:716-882-9640

BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

FAX:_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESEULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other_____
☐ EDD Format_____

ANALYSIS

1	2	3	4	5	6	7	8	9
CP-51 VOCs	CP-51 SVOCs	Tables 2 & 3						

PRESERVATIVES

1	2	3	4	5	6	7	8	9
A	Ice							

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9
1.	MW-06	GW		X	6/12/25	8:55	5	X	X	X						
2.	MW-08	GW		X	6/12/25	9:30	5	X	X	X						
3.	MW-10	GW		X	6/12/25	11:45	5	X	X	X						
4.	MW-11	GW		X	6/12/25	12:20	5	X	X	X						
5.	MW-13	GW		X	6/12/25	13:15	5	X	X	X						
6.	MW-12	GW		X	6/12/25	12:50	5	X	X	X						
7.																
8.																
9.																
10.																

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. Esther S Lonfeld	6-13-25 1500	1. 6-13-25 1500
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	6-13-25 1855	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.8 °C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:_____
Comments:

Page_____of_____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2333 LIRO01
Client Name : LiRo Engineers, Inc.
Client Contact : Martin Wesolowski
Invoice Name : LiRo Engineers, Inc.
Invoice Contact : Martin Wesolowski

Order Date : 6/13/2025 3:21:44 PM
Project Name : RFK Bridge RMB-Randall
Receive DateTime : 6/13/2025 ~~12:00:00 AM~~ ~~18:15~~ 18:55
Purchase Order :

Project Mgr :
Report Type : NYS ASP A
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2333-01	MW-06	Water	06/12/2025	08:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2333-02	MW-08	Water	06/12/2025	09:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2333-03	MW-10	Water	06/12/2025	11:45					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2333-04	MW-11	Water	06/12/2025	12:20					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2333-05	MW-13	Water	06/12/2025	13:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2333-06	MW-12	Water	06/12/2025	12:50					
					VOCMS Group1		8260-Low		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2333 LIRO01
Client Name : LiRo Engineers, Inc.
Client Contact : Martin Wesolowski
Invoice Name : LiRo Engineers, Inc.
Invoice Contact : Martin Wesolowski

Order Date : 6/13/2025 3:21:44 PM
Project Name : RFK Bridge RMB-Randall
Receive DateTime : 6/13/2025 12~~:00:00 AM~~ 18:55 dl
Purchase Order :

Project Mgr :
Report Type : NYS ASP A
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : DW
Date / Time : 6/16/25 0900

Received By : Guy
Date / Time : 06/16/25 9:00 RgH4

SAMPLES RECEIVED ON 6/13/25 @ 1855
PLACED IN SM-REF-2

Storage Area : VOA Refridgerator Room