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

Order ID : P4663

Project ID : Rt. 10 Whippany

Client : Union Paving & Construction Company

Lab Sample Number	Client Sample Number
P4663-01	TENNANT-PAD-2-3-STOCKPILE
P4663-02	TENNANT-PAD-2-3-STOCKPILE
P4663-03	RES-BUILDING-PAD-NO-11
P4663-04	RES-BUILDING-PAD-NO-11
P4663-05	RES-BUILDING-PAD-NO-3
P4663-06	RES-BUILDING-PAD-NO-3
P4663-07	RES-BUILDING-PAD-NO-2
P4663-08	RES-BUILDING-PAD-NO-2

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

Signature : _____

Date: 11/11/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4663**

	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: **PATEL VAISHALI** **Date:** **11/11/2024**

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

LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**TENNANT-PAD-2-3-STOCKPILE**							
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Fluoranthene	180.000	J	89.8	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Pyrene	160.000	J	91.2	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Benzo(a)anthracene	94.300	J	88.7	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Chrysene	100.000	J	87.4	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Benzo(b)fluoranthene	120.000	J	89.2	190	ug/Kg
			Total Svoc :	**654.30**				
			Total Concentration:	**654.30**				

QC SUMMARY

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

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4663-02	TENNANT-PAD-2-3-STOCKPILE	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	98.8	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	64.7	65		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.6	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	101	67		30 (10)	130 (116)
		Terphenyl-d14	100	73.9	74		30 (10)	130 (105)
P4663-04	RES-BUILDING-PAD-NO-11	2-Fluorophenol	150	87.2	58		30 (18)	130 (112)
		Phenol-d6	150	88.9	59		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.4	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.4	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	95.4	64		30 (10)	130 (116)
		Terphenyl-d14	100	67.7	68		30 (10)	130 (105)
P4663-06	RES-BUILDING-PAD-NO-3	2-Fluorophenol	150	106	71		30 (18)	130 (112)
		Phenol-d6	150	99.6	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.6	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.9	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	71.8	72		30 (10)	130 (105)
P4663-08	RES-BUILDING-PAD-NO-2	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	79.7	80		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.0	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	112	75		30 (10)	130 (116)
		Terphenyl-d14	100	80.0	80		30 (10)	130 (105)
P4663-08MS	RES-BUILDING-PAD-NO-2MS	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	104	69		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.4	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.9	76		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	111	74		30 (10)	130 (116)
		Terphenyl-d14	100	86.3	86		30 (10)	130 (105)
P4663-08MSD	RES-BUILDING-PAD-NO-2MSD	2-Fluorophenol	150	109	73		30 (18)	130 (112)
		Phenol-d6	150	111	74		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.4	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	80.7	81		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	120	80		30 (10)	130 (116)
		Terphenyl-d14	100	94.8	95		30 (10)	130 (105)
PB164593BL	PB164593BL	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	112	75		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.0	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.3	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	125	83		30 (10)	130 (116)
		Terphenyl-d14	100	80.1	80		30 (10)	130 (105)
PB164593BS	PB164593BS	2-Fluorophenol	150	158	105		30 (18)	130 (112)
		Phenol-d6	150	143	95		30 (15)	130 (107)
		Nitrobenzene-d5	100	101	101		30 (18)	130 (107)
		2-Fluorobiphenyl	100	108	108		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	149	99		30 (10)	130 (116)
		Terphenyl-d14	100	99.2	99		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4663-08MS		**Client Sample ID: RES-BUILDING-PAD-NO-2MS**						**DataFile: BF140209.D**			
Benzaldehyde	1800	0	460	ug/Kg	26				20 (10)	160 (86)	
Phenol	1800	0	1800	ug/Kg	100				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1800	0	1800	ug/Kg	100				70 (54)	130 (125)	
2-Chlorophenol	1800	0	1900	ug/Kg	106				70 (79)	130 (107)	
2-Methylphenol	1800	0	1900	ug/Kg	106				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1800	0	1900	ug/Kg	106				70 (65)	130 (110)	
Acetophenone	1800	0	1700	ug/Kg	94				70 (75)	130 (111)	
3+4-Methylphenols	1800	0	1800	ug/Kg	100				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1800	0	1800	ug/Kg	100				70 (59)	130 (119)	
Hexachloroethane	1800	0	1800	ug/Kg	100				20 (65)	160 (117)	
Nitrobenzene	1800	0	1800	ug/Kg	100				70 (70)	130 (119)	
Isophorone	1800	0	1900	ug/Kg	106				70 (76)	130 (122)	
2-Nitrophenol	1800	0	2200	ug/Kg	122				70 (54)	130 (145)	
2,4-Dimethylphenol	1800	0	2100	ug/Kg	117				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1800	0	1800	ug/Kg	100				70 (68)	130 (112)	
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (118)	
Naphthalene	1800	0	1800	ug/Kg	100				70 (72)	130 (110)	
4-Chloroaniline	1800	0	770	ug/Kg	43	*			70 (10)	130 (91)	
Hexachlorobutadiene	1800	0	1800	ug/Kg	100				70 (66)	130 (114)	
Caprolactam	1800	0	1900	ug/Kg	106				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1800	0	1900	ug/Kg	106				70 (57)	130 (132)	
2-Methylnaphthalene	1800	0	1800	ug/Kg	100				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3600	0	5900	ug/Kg	164	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	1800	0	1800	ug/Kg	100				70 (75)	130 (113)	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
2-Nitroaniline	1800	0	2100	ug/Kg	117				70 (69)	130 (127)	
Dimethylphthalate	1800	0	1900	ug/Kg	106				70 (70)	130 (113)	
Acenaphthylene	1800	0	1900	ug/Kg	106				70 (79)	130 (118)	
2,6-Dinitrotoluene	1800	0	1900	ug/Kg	106				70 (70)	130 (125)	
3-Nitroaniline	1800	0	1300	ug/Kg	72				70 (30)	130 (99)	
Acenaphthene	1800	0	2000	ug/Kg	111				70 (70)	130 (121)	
2,4-Dinitrophenol	3600	0	4700	ug/Kg	131				20 (10)	160 (155)	
4-Nitrophenol	3600	0	3900	ug/Kg	108				20 (45)	160 (133)	
Dibenzofuran	1800	0	1800	ug/Kg	100				70 (72)	130 (110)	
2,4-Dinitrotoluene	1800	0	2100	ug/Kg	117				70 (55)	130 (128)	
Diethylphthalate	1800	0	1900	ug/Kg	106				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (71)	130 (108)	
Fluorene	1800	0	1800	ug/Kg	100				70 (68)	130 (116)	
4-Nitroaniline	1800	0	2000	ug/Kg	111				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1800	0	2500	ug/Kg	139	*			70 (10)	130 (160)	
N-Nitrosodiphenylamine	1800	0	1800	ug/Kg	100				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (65)	130 (121)	
Hexachlorobenzene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
Atrazine	1800	0	2200	ug/Kg	122				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3600	0	3400	ug/Kg	94				20 (47)	160 (128)	
Phenanthrene	1800	0	1800	ug/Kg	100				70 (52)	130 (128)	
Anthracene	1800	0	1800	ug/Kg	100				70 (62)	130 (124)	
Carbazole	1800	0	1700	ug/Kg	94				70 (59)	130 (119)	
Di-n-butylphthalate	1800	0	1900	ug/Kg	106				70 (69)	130 (118)	
Fluoranthene	1800	0	1700	ug/Kg	94				70 (44)	130 (125)	
Pyrene	1800	0	1900	ug/Kg	106				70 (26)	130 (142)	
Butylbenzylphthalate	1800	0	2700	ug/Kg	150	*			70 (64)	130 (126)	
3,3-Dichlorobenzidine	1800	0	1400	ug/Kg	78				70 (33)	130 (116)	
Benzo(a)anthracene	1800	0	1800	ug/Kg	100				70 (71)	130 (114)	
Chrysene	1800	0	1900	ug/Kg	106				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1800	0	3000	ug/Kg	167	*			70 (42)	130 (169)	
Di-n-octyl phthalate	1800	0	2400	ug/Kg	133	*			70 (23)	130 (175)	
Benzo(b)fluoranthene	1800	0	1800	ug/Kg	100				70 (67)	130 (121)	
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94				70 (57)	130 (134)	
Benzo(a)pyrene	1800	0	2000	ug/Kg	111				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1800	0	1800	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1800	0	1600	ug/Kg	89				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1800	0	1800	ug/Kg	100				70 (69)	130 (124)	
1,4-Dioxane	1800	0	1500	ug/Kg	83				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1800	0	1900	ug/Kg	106				70 (69)	130 (112)	

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4663-08MSD		**Client Sample ID: RES-BUILDING-PAD-NO-2MSD**						**DataFile: BF140210.D**			
Benzaldehyde	1800	0	480	ug/Kg	27		4		20 (10)	160 (86)	30 (20)
Phenol	1800	0	1900	ug/Kg	106		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1800	0	1900	ug/Kg	106		6		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1800	0	2000	ug/Kg	111		5		70 (79)	130 (107)	30 (20)
2-Methylphenol	1800	0	2000	ug/Kg	111		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1800	0	2000	ug/Kg	111		5		70 (65)	130 (110)	30 (20)
Acetophenone	1800	0	1800	ug/Kg	100		6		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1800	0	1900	ug/Kg	106		6		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1800	0	1900	ug/Kg	106		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	1800	0	1900	ug/Kg	106		6		20 (65)	160 (117)	30 (20)
Nitrobenzene	1800	0	1900	ug/Kg	106		6		70 (70)	130 (119)	30 (20)
Isophorone	1800	0	2000	ug/Kg	111		5		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1800	0	2300	ug/Kg	128		5		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1800	0	2200	ug/Kg	122		4		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1800	0	1900	ug/Kg	106		6		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (118)	30 (20)
Naphthalene	1800	0	1900	ug/Kg	106		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1800	0	820	ug/Kg	46	*	7		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1800	0	1900	ug/Kg	106		6		70 (66)	130 (114)	30 (20)
Caprolactam	1800	0	1900	ug/Kg	106		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1800	0	2000	ug/Kg	111		5		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1800	0	1900	ug/Kg	106		6		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3600	0	6100	ug/Kg	169	*	3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1800	0	2000	ug/Kg	111		10		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1800	0	1900	ug/Kg	106		6		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1800	0	1800	ug/Kg	100		6		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1800	0	2200	ug/Kg	122		4		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1800	0	2000	ug/Kg	111		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	1800	0	2000	ug/Kg	111		5		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1800	0	2100	ug/Kg	117		10		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1800	0	1300	ug/Kg	72		0		70 (30)	130 (99)	30 (20)
Acenaphthene	1800	0	2100	ug/Kg	117		5		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3600	0	4800	ug/Kg	133		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3600	0	4100	ug/Kg	114		5		20 (45)	160 (133)	30 (20)
Dibenzofuran	1800	0	1900	ug/Kg	106		6		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1800	0	2300	ug/Kg	128		9		70 (55)	130 (128)	30 (20)
Diethylphthalate	1800	0	2000	ug/Kg	111		5		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (71)	130 (108)	30 (20)
Fluorene	1800	0	1900	ug/Kg	106		6		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1800	0	2100	ug/Kg	117		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1800	0	2700	ug/Kg	150	*	8		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1800	0	1900	ug/Kg	106		6		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1800	0	1900	ug/Kg	106		12		70 (67)	130 (118)	30 (20)
Atrazine	1800	0	2300	ug/Kg	128		5		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3600	0	3700	ug/Kg	103		9		20 (47)	160 (128)	30 (20)
Phenanthrene	1800	0	1900	ug/Kg	106		6		70 (52)	130 (128)	30 (20)
Anthracene	1800	0	2000	ug/Kg	111		10		70 (62)	130 (124)	30 (20)
Carbazole	1800	0	1900	ug/Kg	106		12		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1800	0	2100	ug/Kg	117		10		70 (69)	130 (118)	30 (20)
Fluoranthene	1800	0	1900	ug/Kg	106		12		70 (44)	130 (125)	30 (20)
Pyrene	1800	0	2100	ug/Kg	117		10		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1800	0	3000	ug/Kg	167	*	11		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1800	0	1700	ug/Kg	94		19		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1800	0	2000	ug/Kg	111		10		70 (71)	130 (114)	30 (20)
Chrysene	1800	0	2000	ug/Kg	111		5		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1800	0	3300	ug/Kg	183	*	9		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1800	0	2600	ug/Kg	144	*	8		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1800	0	1900	ug/Kg	106		6		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1800	0	1900	ug/Kg	106		12		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1800	0	2100	ug/Kg	117		5		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1800	0	1900	ug/Kg	106		6		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94		5		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1800	0	1900	ug/Kg	106		6		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1800	0	1500	ug/Kg	83		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1800	0	2000	ug/Kg	111		5		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E **DataFile:** BE101455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164593BS	Benzaldehyde	1700	360	ug/Kg	21				20 (10)	160 (133)	
	Phenol	1700	1700	ug/Kg	100				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	2-Chlorophenol	1700	1700	ug/Kg	100				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1600	ug/Kg	94				20 (72)	160 (108)	
	Nitrobenzene	1700	1600	ug/Kg	94				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1800	ug/Kg	106				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	2100	ug/Kg	124				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				70 (62)	130 (107)	
	Naphthalene	1700	1600	ug/Kg	94				70 (62)	130 (100)	
	4-Chloroaniline	1700	1200	ug/Kg	71				70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1700	ug/Kg	100				70 (53)	130 (98)	
	Caprolactam	1700	1500	ug/Kg	88				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	7100	ug/Kg	215		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1700	ug/Kg	100				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1700	ug/Kg	100				70 (58)	130 (99)	
	2-Nitroaniline	1700	1800	ug/Kg	106				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2700	ug/Kg	82				20 (37)	160 (128)	
	4-Nitrophenol	3300	3100	ug/Kg	94				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1400	ug/Kg	82				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1800	ug/Kg	106				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1800	ug/Kg	106				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E **DataFile:** BE101455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164593BS	Hexachlorobenzene	1700	1700	ug/Kg	100				70 (64)	130 (98)	
	Atrazine	1700	2100	ug/Kg	124				70 (47)	130 (152)	
	Pentachlorophenol	3300	3400	ug/Kg	103				20 (67)	160 (105)	
	Phenanthrene	1700	1800	ug/Kg	106				70 (59)	130 (103)	
	Anthracene	1700	1900	ug/Kg	112				70 (61)	130 (105)	
	Carbazole	1700	1700	ug/Kg	100				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1800	ug/Kg	106				70 (58)	130 (104)	
	Fluoranthene	1700	1700	ug/Kg	100				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1400	ug/Kg	82				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1800	ug/Kg	106				70 (60)	130 (102)	
	Chrysene	1700	1800	ug/Kg	106				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2000	ug/Kg	118				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	2200	ug/Kg	129				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1900	ug/Kg	112				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1800	ug/Kg	106				70 (53)	130 (101)	
	1,4-Dioxane	1700	1400	ug/Kg	82				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164593BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101454.D Lab Sample ID: PB164593BL

Instrument ID: BNA_E Date Extracted: 11/01/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/04/2024

Level: (low/med) LOW Time Analyzed: 13:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164593BS	PB164593BS	BE101455.D	11/04/2024
RES-BUILDING-PAD-NO-2	P4663-08	BF140208.D	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-04	BF140212.D	11/01/2024
RES-BUILDING-PAD-NO-2MS	P4663-08MS	BF140209.D	11/01/2024
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	BF140210.D	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-02	BE101450.D	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-06	BE101448.D	11/01/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101388.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_E DFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.8
68	Less than 2.0% of mass 69	0.3 (1.5) 1
69	Mass 69 relative abundance	18.3
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	27.1
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	4
275	10.0 - 60.0% of mass 198	20
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20.1 (20.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BE101389.D	10/28/2024	11:44
SSTDICC005	SSTDICC005	BE101390.D	10/28/2024	12:23
SSTDICC010	SSTDICC010	BE101391.D	10/28/2024	12:59
SSTDICC020	SSTDICC020	BE101392.D	10/28/2024	13:35
SSTDICCC040	SSTDICCC040	BE101393.D	10/28/2024	14:11
SSTDICC050	SSTDICC050	BE101394.D	10/28/2024	14:49
SSTDICC060	SSTDICC060	BE101395.D	10/28/2024	15:25
SSTDICC080	SSTDICC080	BE101396.D	10/28/2024	16:01

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101443.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	13.1
68	Less than 2.0% of mass 69	0.2 (1.6) 1
69	Mass 69 relative abundance	14
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	21.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	3.4
275	10.0 - 60.0% of mass 198	17.6
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	16.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BE101444.D	11/01/2024	09:41
RES-BUILDING-PAD-NO-3	P4663-06	BE101448.D	11/01/2024	14:33
TENNANT-PAD-2-3-STOCKPILE	P4663-02	BE101450.D	11/01/2024	15:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101452.D DFTPP Injection Date: 11/04/2024

Instrument ID: BNA_E DFTPP Injection Time: 12:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	14.6
68	Less than 2.0% of mass 69	0.2 (1.6) 1
69	Mass 69 relative abundance	15.5
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	22
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	3.6
275	10.0 - 60.0% of mass 198	17.7
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	16.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BE101453.D	11/04/2024	12:49
PB164593BL	PB164593BL	BE101454.D	11/04/2024	13:25
PB164593BS	PB164593BS	BE101455.D	11/04/2024	14:04

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

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

Instrument ID: BNA_F DFTPP Injection Time: 09:22

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

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

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

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

Raw Data: **BF140199.D**

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BF140199.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	98.8
443	15.0 - 24.0% of mass 442	19.3 (19.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140200.D	11/01/2024	09:22
RES-BUILDING-PAD-NO-2	P4663-08	BF140208.D	11/01/2024	14:00
RES-BUILDING-PAD-NO-2MS	P4663-08MS	BF140209.D	11/01/2024	14:27
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	BF140210.D	11/01/2024	14:53
RES-BUILDING-PAD-NO-11	P4663-04	BF140212.D	11/01/2024	15:47

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BE101444.D Time Analyzed: 09:41

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	92171	7.576	414792	10.34	283187	14.19
	UPPER LIMIT	184342	8.076	829584	10.843	566374	14.686
	LOWER LIMIT	46085.5	7.076	207396	9.843	141594	13.686
	EPA SAMPLE NO.						
01	TENNANT-PAD-2-3-STOCKPILE	90671	7.57	396894	10.34	265226	14.18
02	RES-BUILDING-PAD-NO-3	69420	7.58	296978	10.34	197789	14.18

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BE101444.D Time Analyzed: 09:41

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	682015	16.924	817400	21.09	1050290	23.381
	UPPER LIMIT	1364030	17.424	1634800	21.59	2100580	23.881
	LOWER LIMIT	341008	16.424	408700	20.59	525145	22.881
	EPA SAMPLE NO.						
01	TENNANT-PAD-2-3-STOCKPILE	598076	16.92	668565	21.08	876363	23.38
02	RES-BUILDING-PAD-NO-3	455282	16.92	540190	21.08	717080	23.37

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/04/2024

Lab File ID: BE101453.D Time Analyzed: 12:49

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	101222	7.57	465351	10.34	319103	14.19
	UPPER LIMIT	202444	8.07	930702	10.843	638206	14.686
	LOWER LIMIT	50611	7.07	232676	9.843	159552	13.686
	EPA SAMPLE NO.						
01	PB164593BL	83697	7.57	332383	10.34	209474	14.18
02	PB164593BS	76985	7.57	325431	10.34	205486	14.18

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

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

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/04/2024

Lab File ID: BE101453.D Time Analyzed: 12:49

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	704364	16.924	756056	21.084	973527	23.375
	UPPER LIMIT	1408730	17.424	1512110	21.584	1947050	23.875
	LOWER LIMIT	352182	16.424	378028	20.584	486764	22.875
	EPA SAMPLE NO.						
01	PB164593BL	478774	16.92	637683	21.08	926419	23.37
02	PB164593BS	423694	16.92	509474	21.08	767672	23.38

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.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	147950	6.887	577069	8.17	331720	9.93
	UPPER LIMIT	295900	7.387	1154140	8.669	663440	10.428
	LOWER LIMIT	73975	6.387	288535	7.669	165860	9.428
	EPA SAMPLE NO.						
01	RES-BUILDING-PAD-NO-11	106496	6.88	419273	8.16	231436	9.92
02	RES-BUILDING-PAD-NO-2	105943	6.88	422510	8.16	242556	9.93
03	RES-BUILDING-PAD-NO-2MS	109344	6.89	436831	8.16	250775	9.93
04	RES-BUILDING-PAD-NO-2MSD	103190	6.89	410116	8.16	235405	9.93

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

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

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	606919	11.422	388668	14.08	308087	15.58
	UPPER LIMIT	1213840	11.922	777336	14.58	616174	16.08
	LOWER LIMIT	303460	10.922	194334	13.58	154044	15.08
	EPA SAMPLE NO.						
01	RES-BUILDING-PAD-NO-11	391644	11.42	198159	14.07	221860	15.57
02	RES-BUILDING-PAD-NO-2	447541	11.42	249474	14.07	218114	15.57
03	RES-BUILDING-PAD-NO-2MS	453631	11.42	223586	14.07	232464	15.57
04	RES-BUILDING-PAD-NO-2MSD	418261	11.42	199568	14.07	218473	15.57

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: **BE101450.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	91.1	U	91.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	92.0	U	92.0	190	ug/Kg
95-57-8	2-Chlorophenol	91.8	U	91.8	190	ug/Kg
95-48-7	2-Methylphenol	88.6	U	88.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.9	U	99.9	190	ug/Kg
98-86-2	Acetophenone	95.5	U	95.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.7	U	87.7	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.3	U	44.3	88.0	ug/Kg
67-72-1	Hexachloroethane	91.2	U	91.2	190	ug/Kg
98-95-3	Nitrobenzene	99.8	U	99.8	190	ug/Kg
78-59-1	Isophorone	93.0	U	93.0	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	94.3	U	94.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	83.0	U	83.0	190	ug/Kg
91-20-3	Naphthalene	90.8	U	90.8	190	ug/Kg
106-47-8	4-Chloroaniline	90.8	U	90.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.6	U	91.6	190	ug/Kg
105-60-2	Caprolactam	95.4	U	95.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	85.2	U	85.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.7	U	90.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.5	U	78.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.4	U	81.4	190	ug/Kg
92-52-4	1,1-Biphenyl	96.1	U	96.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.6	U	91.6	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.8	U	89.8	190	ug/Kg

Raw Data: **BE101450.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	95.1	U	95.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.5	U	91.5	190	ug/Kg
99-09-2	3-Nitroaniline	98.1	UQ	98.1	190	ug/Kg
83-32-9	Acenaphthene	89.2	U	89.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.8	U	92.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.8	U	94.8	190	ug/Kg
84-66-2	Diethylphthalate	88.1	U	88.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	94.1	U	94.1	190	ug/Kg
86-73-7	Fluorene	94.0	U	94.0	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.7	U	89.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.7	U	86.7	190	ug/Kg
118-74-1	Hexachlorobenzene	93.4	U	93.4	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	85.0	U	85.0	360	ug/Kg
85-01-8	Phenanthrene	92.3	U	92.3	190	ug/Kg
120-12-7	Anthracene	92.8	U	92.8	190	ug/Kg
86-74-8	Carbazole	88.3	U	88.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.7	U	92.7	190	ug/Kg
206-44-0	Fluoranthene	180	J	89.8	190	ug/Kg
129-00-0	Pyrene	160	J	91.2	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	94.3	J	88.7	190	ug/Kg
218-01-9	Chrysene	100	J	87.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	120	J	89.2	190	ug/Kg

Raw Data: **BE101450.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.8	U	90.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.9	U	85.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	89.3	U	89.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	88.1	U	88.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.4	U	95.4	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.1	U	82.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	98.8		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.7		30 (18) - 130 (107)	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.6		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	101		30 (10) - 130 (116)	67%	SPK: 150
1718-51-0	Terphenyl-d14	73.9		30 (10) - 130 (105)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	90700	7.573			
1146-65-2	Naphthalene-d8	397000	10.34			
15067-26-2	Acenaphthene-d10	265000	14.182			
1517-22-2	Phenanthrene-d10	598000	16.92			
1719-03-5	Chrysene-d12	669000	21.08			
1520-96-3	Perylene-d12	876000	23.378			

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: **BE101450.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101450.D
Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.573	152	90671	20.000	ng		0.00
21) Naphthalene-d8	10.340	136	396894	20.000	ng		0.00
39) Acenaphthene-d10	14.182	164	265226	20.000	ng		0.00
64) Phenanthrene-d10	16.920	188	598076	20.000	ng		0.00
76) Chrysene-d12	21.080	240	668565	20.000	ng		0.00
86) Perylene-d12	23.378	264	876363	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.322	112	536510	103.707	ng		0.00
7) Phenol-d6	6.950	99	708836	98.815	ng		0.00
23) Nitrobenzene-d5	8.783	82	408608	64.663	ng		0.00
42) 2,4,6-Tribromophenol	15.692	330	468925	100.875	ng		0.00
45) 2-Fluorobiphenyl	12.802	172	1073639	68.555	ng		0.00
79) Terphenyl-d14	19.517	244	2147495	73.928	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	16.962	178	63526	2.218	ng		98
75) Fluoranthene	18.965	202	169582	4.876	ng		96
78) Pyrene	19.335	202	156114	4.246	ng		96
81) Benzo(a)anthracene	21.063	228	96709	2.574	ng		97
83) Chrysene	21.116	228	102572	2.823	ng		97
88) Benzo(b)fluoranthene	22.661	252	152832m	3.346	ng		
90) Benzo(a)pyrene	23.266	252	107140	2.682	ng	#	90

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

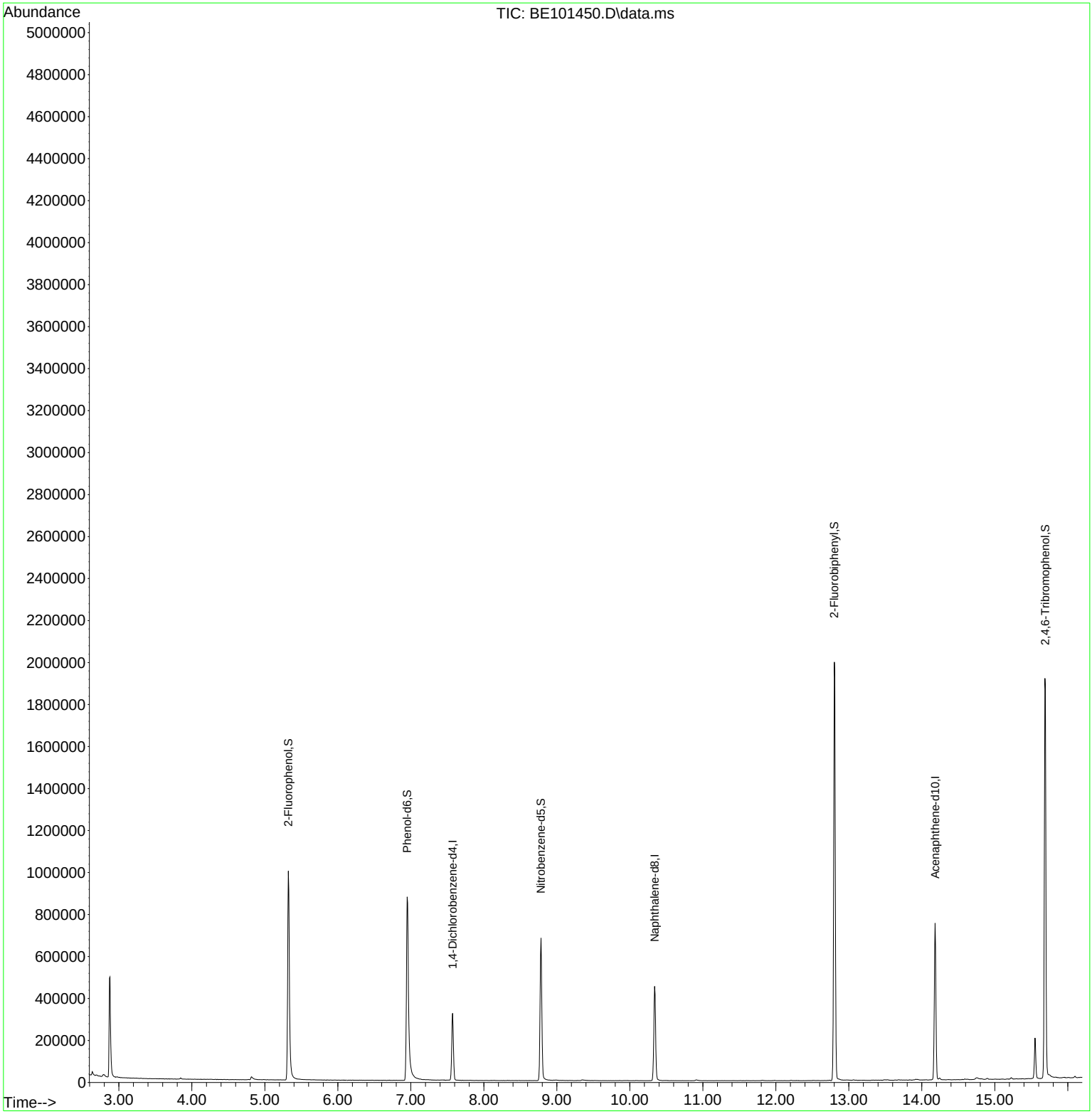
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101450.D
Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



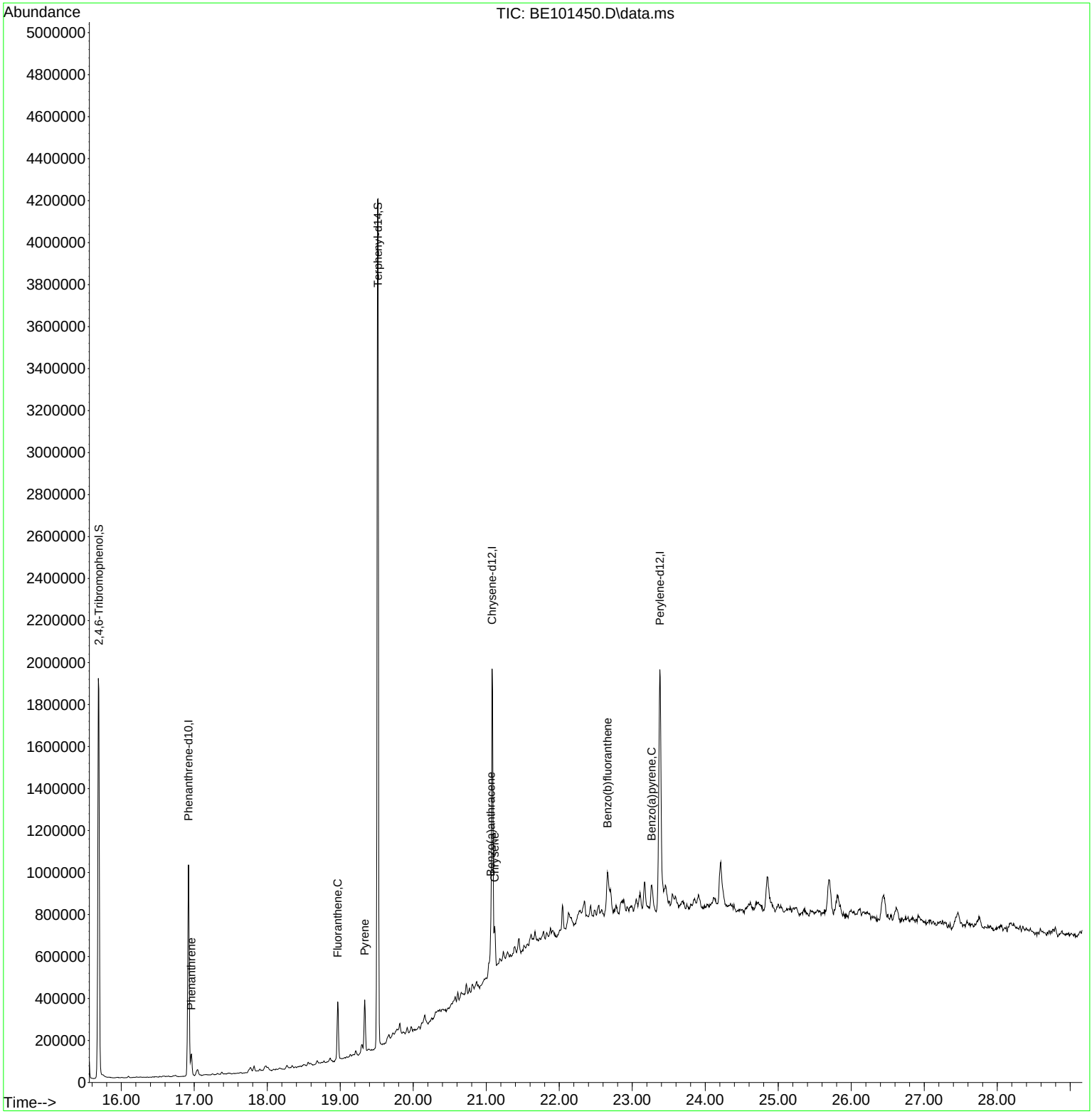
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101450.D
Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

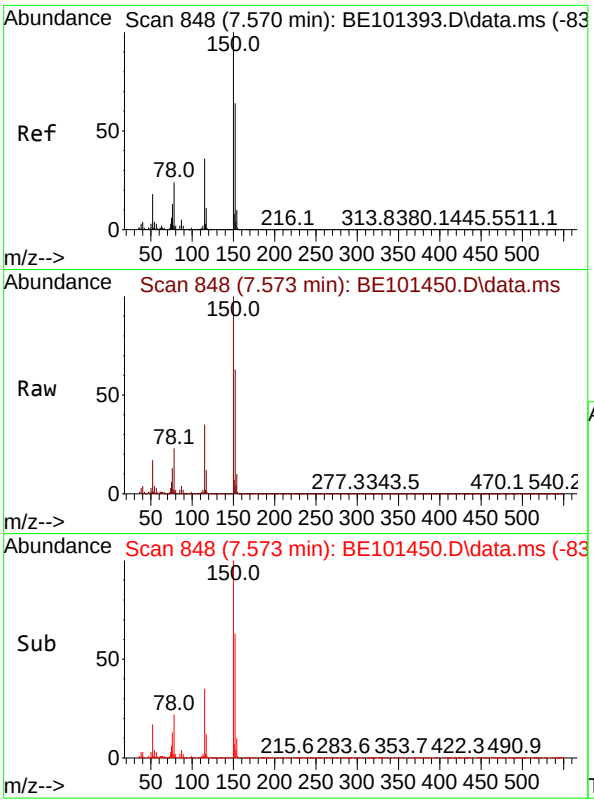
Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

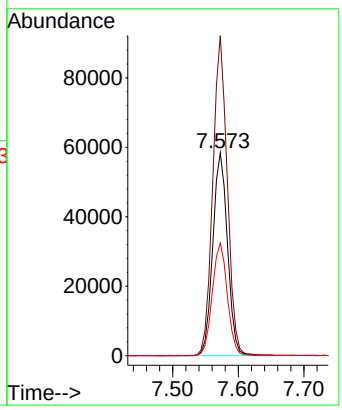




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.573 min Scan# 84
Delta R.T. 0.003 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:152 Resp: 9067

Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.2	186.4
115	55.6	45.3	67.9



Instrument :
BNA_E
ClientSampleId :
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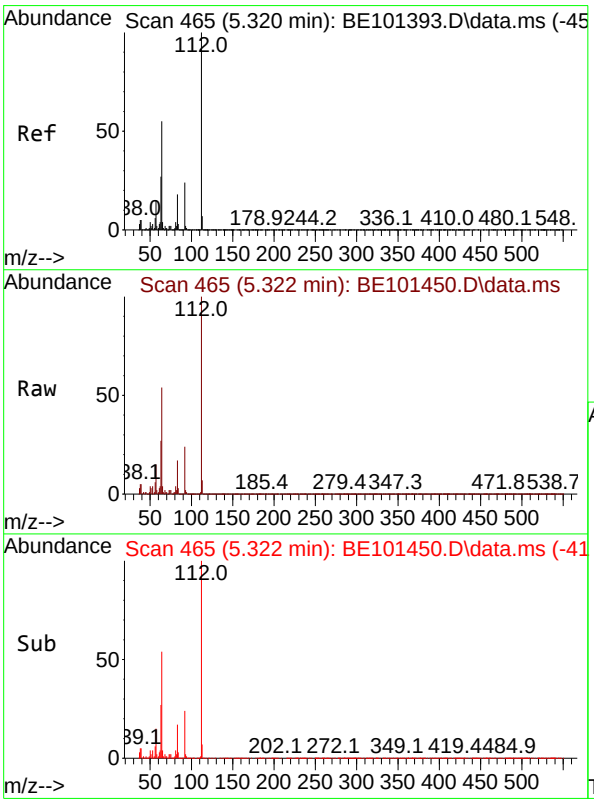
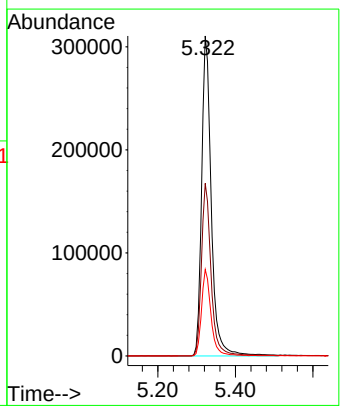
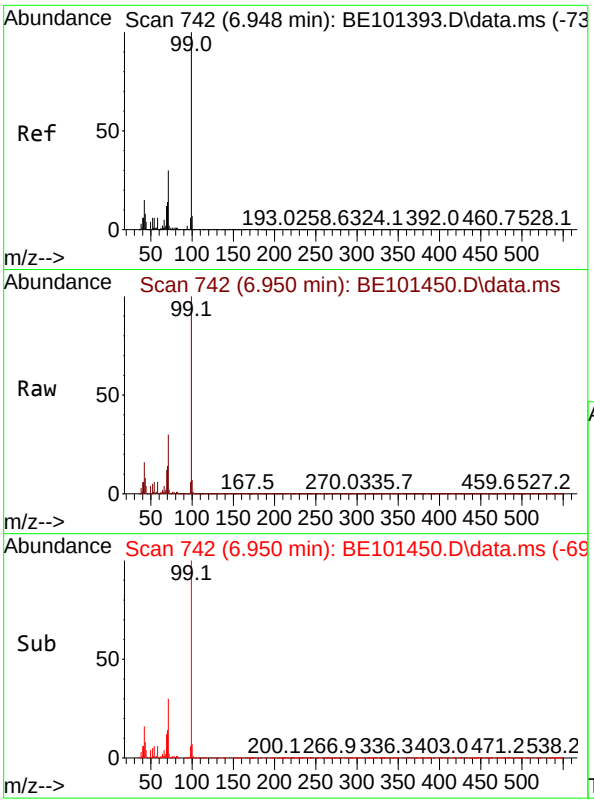


#5
2-Fluorophenol
Concen: 103.707 ng
RT: 5.322 min Scan# 465
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:112 Resp: 536510

Ion	Ratio	Lower	Upper
112	100		
64	54.0	43.7	65.5
63	27.0	21.4	32.2

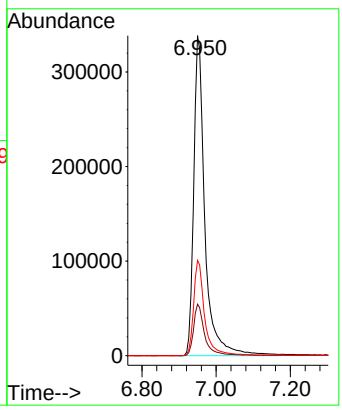




#7
Phenol-d6
Concen: 98.815 ng
RT: 6.950 min Scan# 74
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion: 99 Resp: 70883

Ion	Ratio	Lower	Upper
99	100		
42	16.1	12.3	18.5
71	29.8	23.8	35.8



Instrument :
BNA_E
ClientSampleId :
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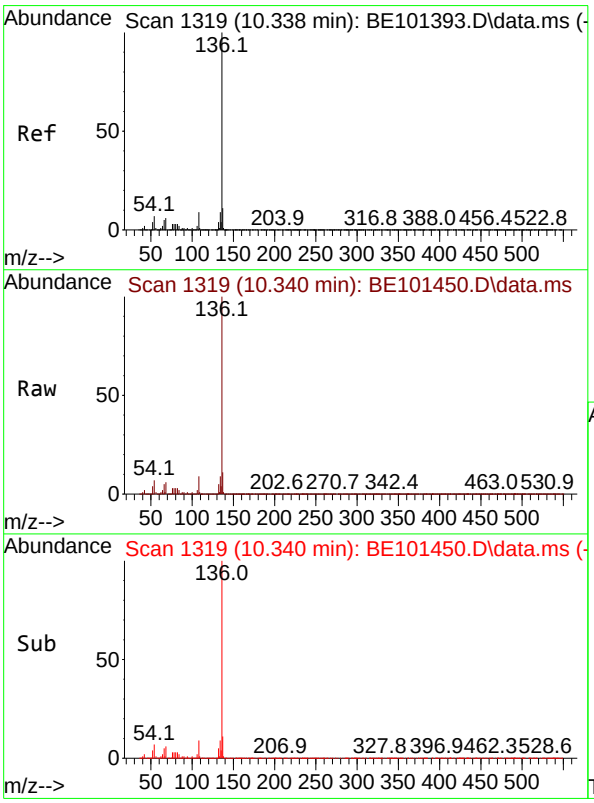
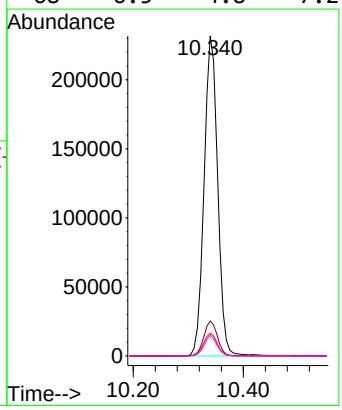
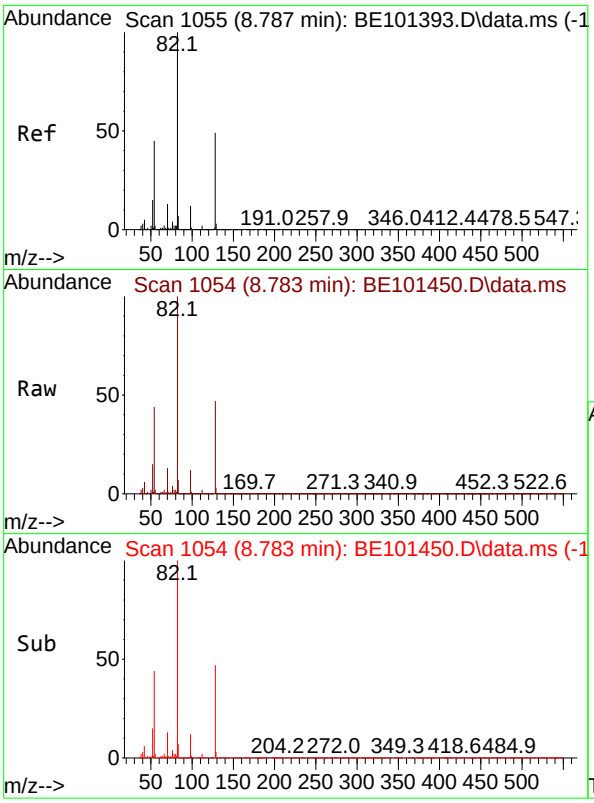


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.340 min Scan# 1319
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:136 Resp: 396894

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	7.1	5.9	8.9
68	6.5	4.8	7.2

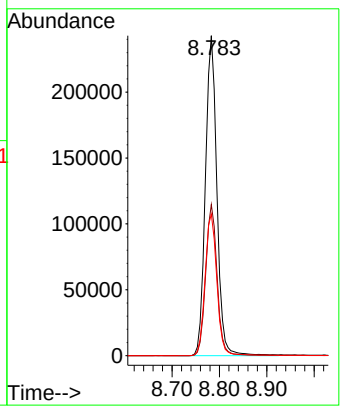




#23
Nitrobenzene-d5
Concen: 64.663 ng
RT: 8.783 min Scan# 1
Delta R.T. -0.004 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion: 82 Resp: 40860

Ion	Ratio	Lower	Upper
82	100		
128	47.2	38.9	58.3
54	44.3	36.2	54.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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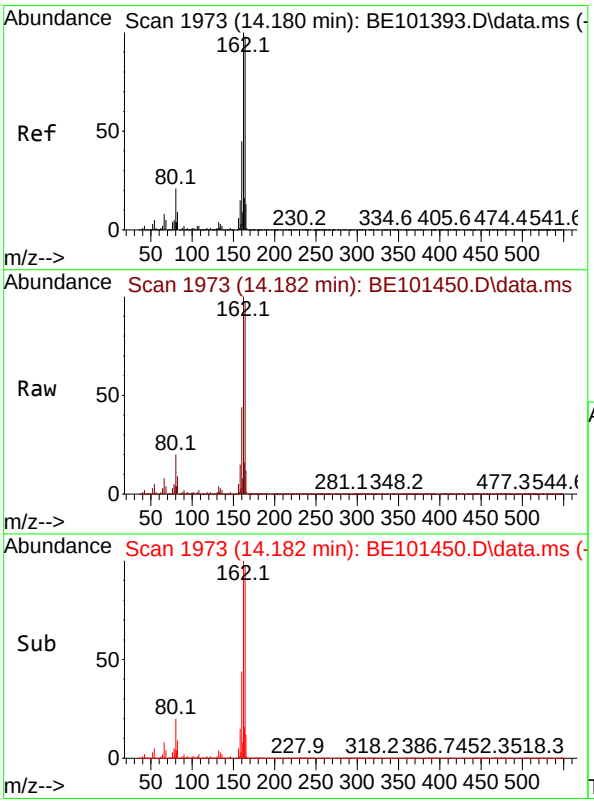
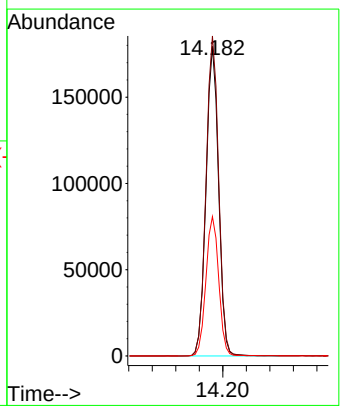
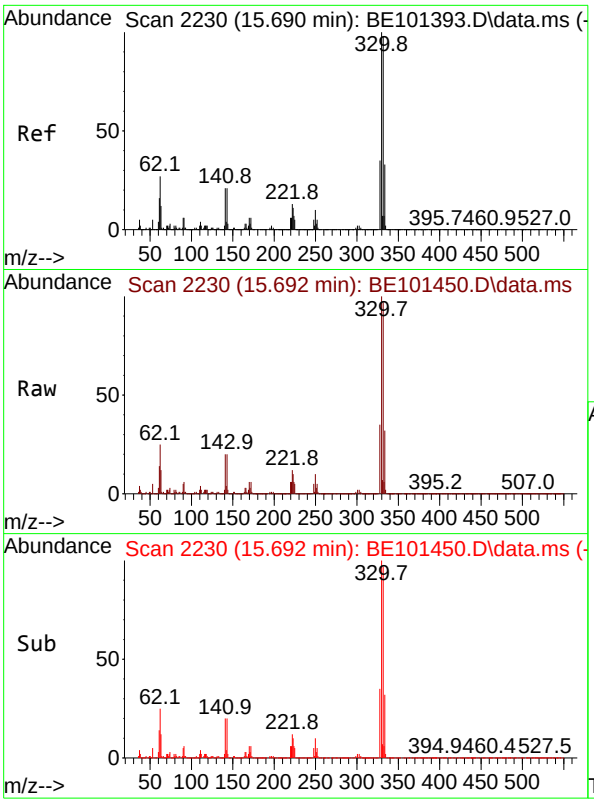


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.182 min Scan# 1973
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:164 Resp: 265226

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.3	121.9
160	45.0	36.4	54.6

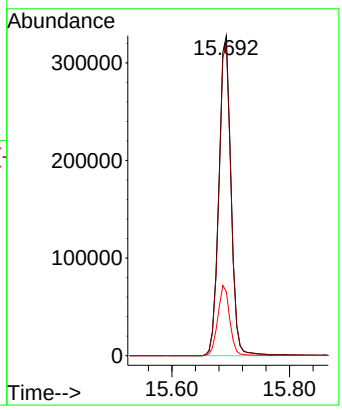




#42
2,4,6-Tribromophenol
Concen: 100.875 ng
RT: 15.692 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:330 Resp: 46892

Ion	Ratio	Lower	Upper
330	100		
332	98.4	78.2	117.2
141	21.7	18.3	27.5



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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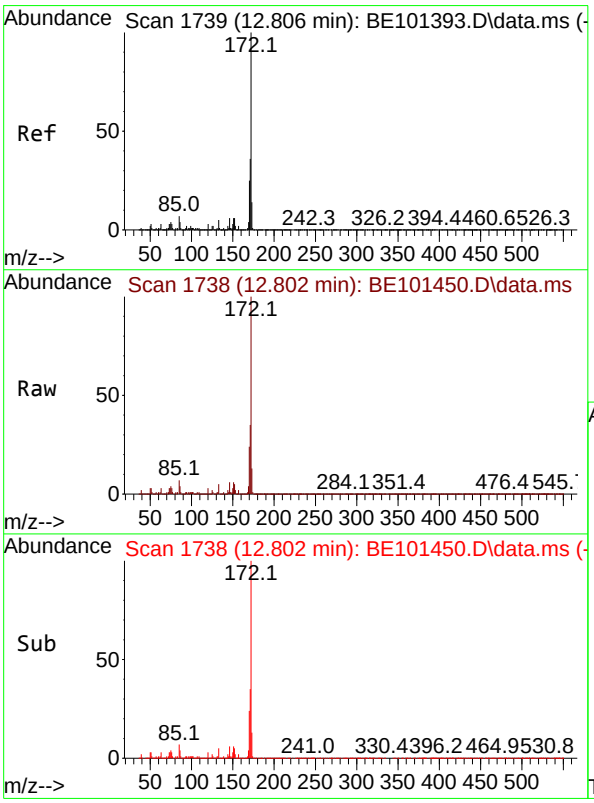
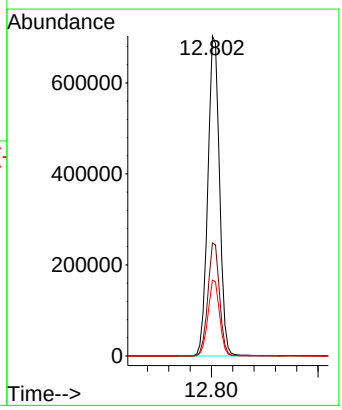
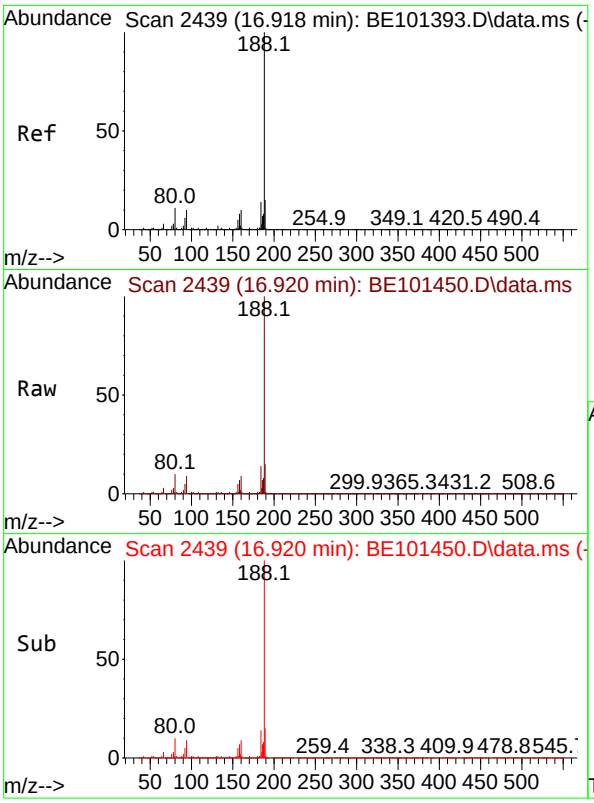


#45
2-Fluorobiphenyl
Concen: 68.555 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.004 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:172 Resp: 1073639

Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.2	43.8
170	23.7	19.8	29.6

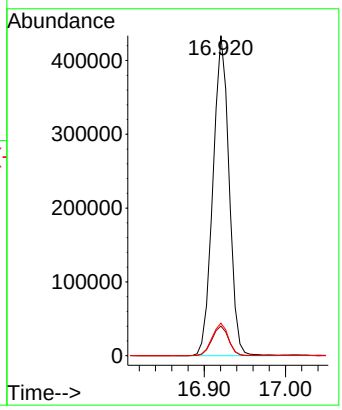




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.920 min Scan# 24
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:188 Resp: 59807

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.8	11.8
80	10.2	8.6	12.8



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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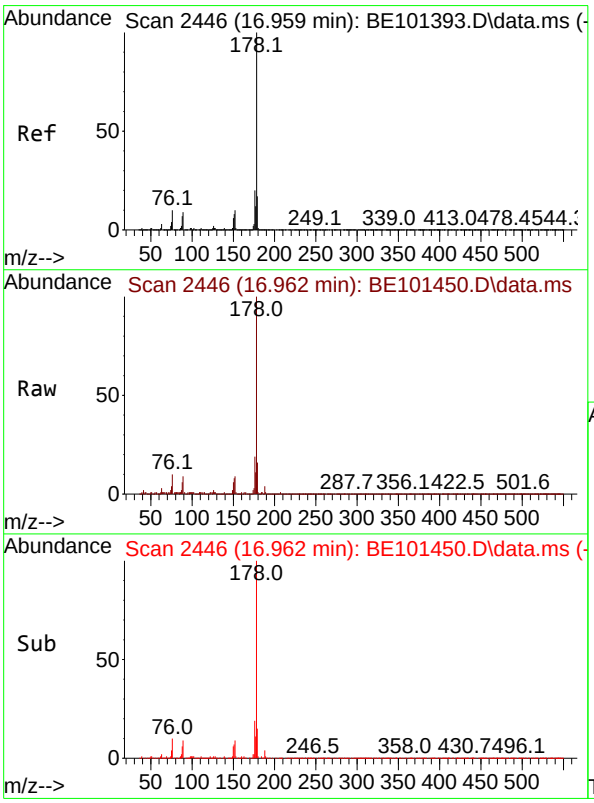
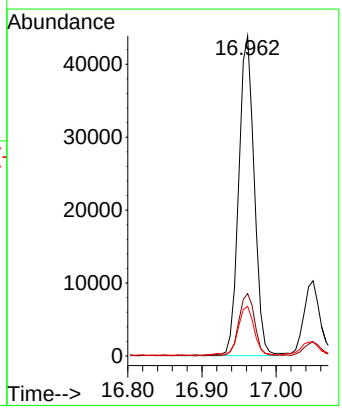
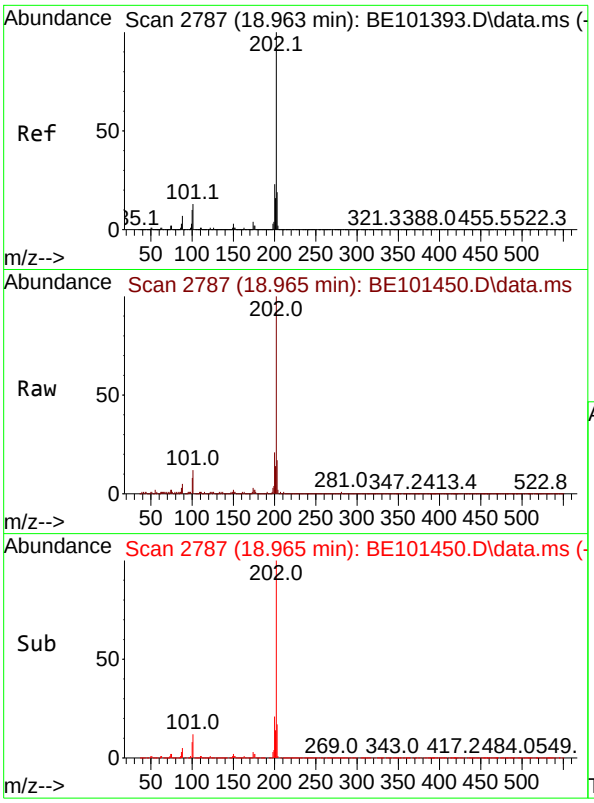


#71
Phenanthrene
Concen: 2.218 ng
RT: 16.962 min Scan# 2446
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:178 Resp: 63526

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.4	24.6
179	15.5	13.2	19.8





#75
Fluoranthene
Concen: 4.876 ng
RT: 18.965 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:202 Resp: 16958

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	33.3
203	17.4	0.0	39.3

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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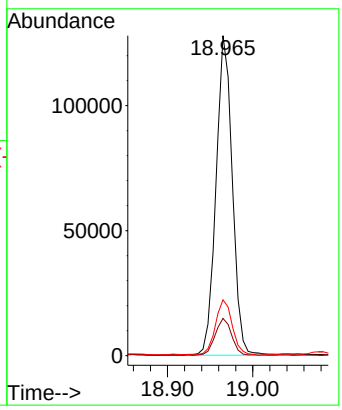
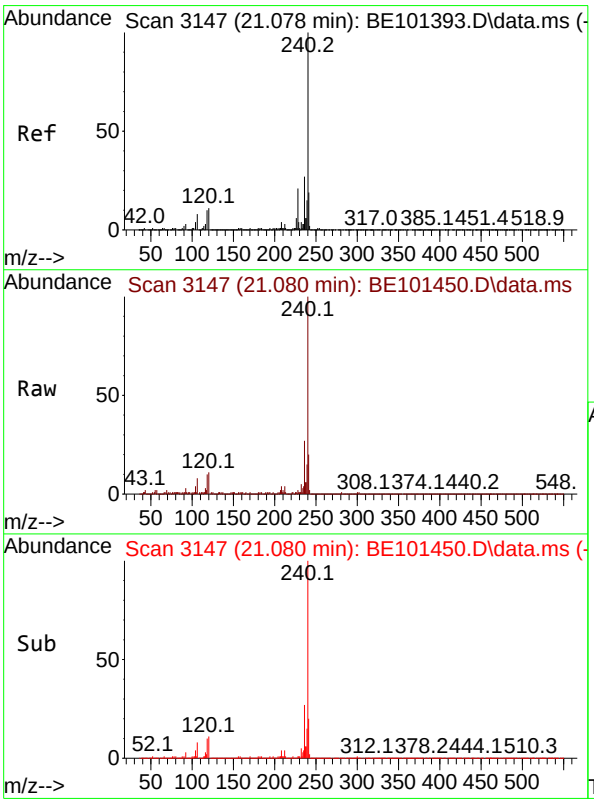
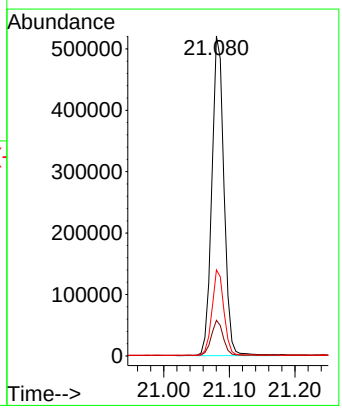


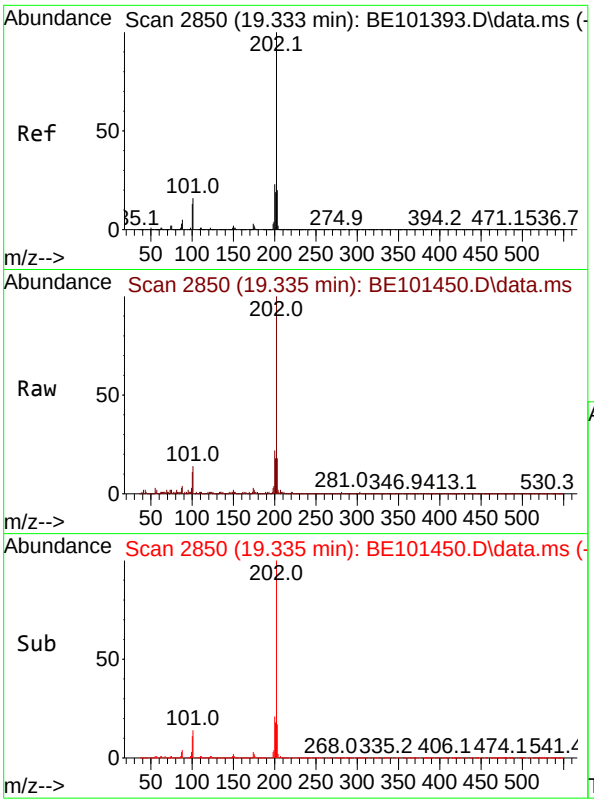


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.080 min Scan# 3147
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:240 Resp: 668565

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	26.9	21.4	32.0

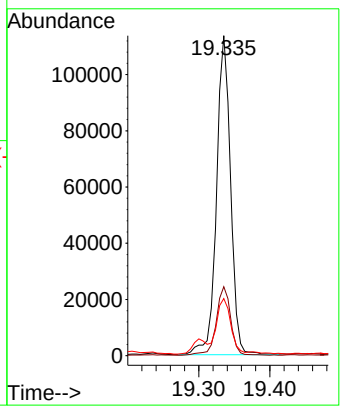




#78
Pyrene
Concen: 4.246 ng
RT: 19.335 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:202 Resp: 15611

Ion	Ratio	Lower	Upper
202	100		
200	21.5	18.6	28.0
203	17.9	15.6	23.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
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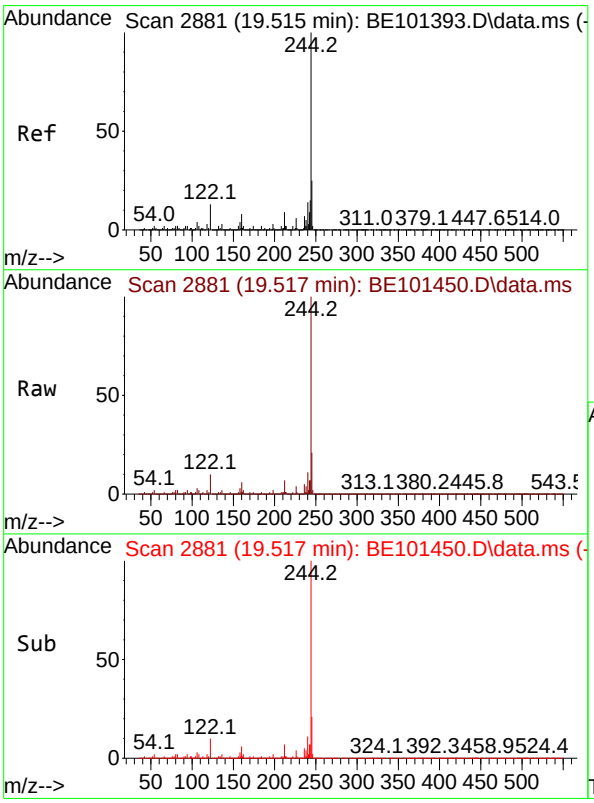
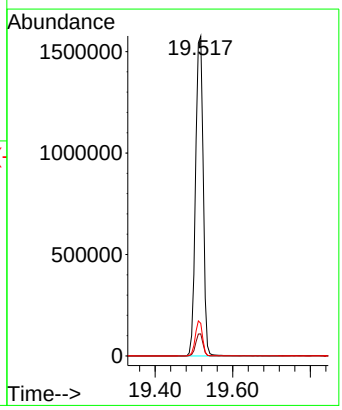
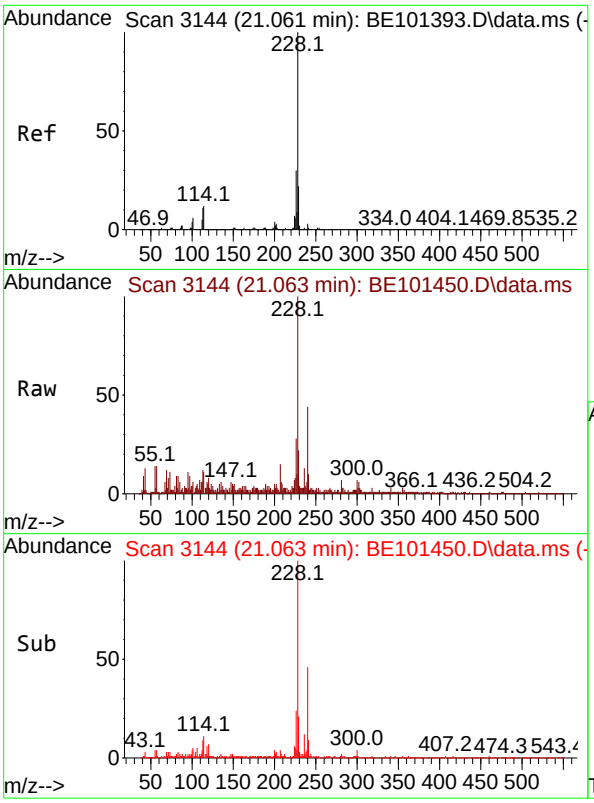


#79
Terphenyl-d14
Concen: 73.928 ng
RT: 19.517 min Scan# 2881
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:244 Resp: 2147495

Ion	Ratio	Lower	Upper
244	100		
212	6.9	7.2	10.8#
122	10.2	10.4	15.6#

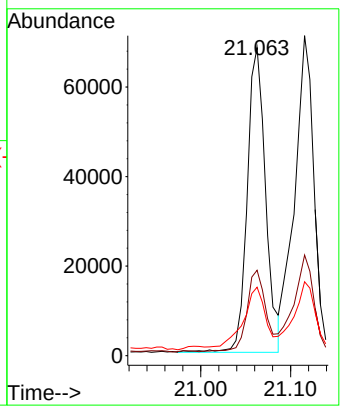




#81
Benzo(a)anthracene
Concen: 2.574 ng
RT: 21.063 min Scan# 3
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:228 Resp: 9670

Ion	Ratio	Lower	Upper
228	100		
226	27.7	24.1	36.1
229	22.2	17.3	25.9



Instrument :
BNA_E
ClientSampleId :
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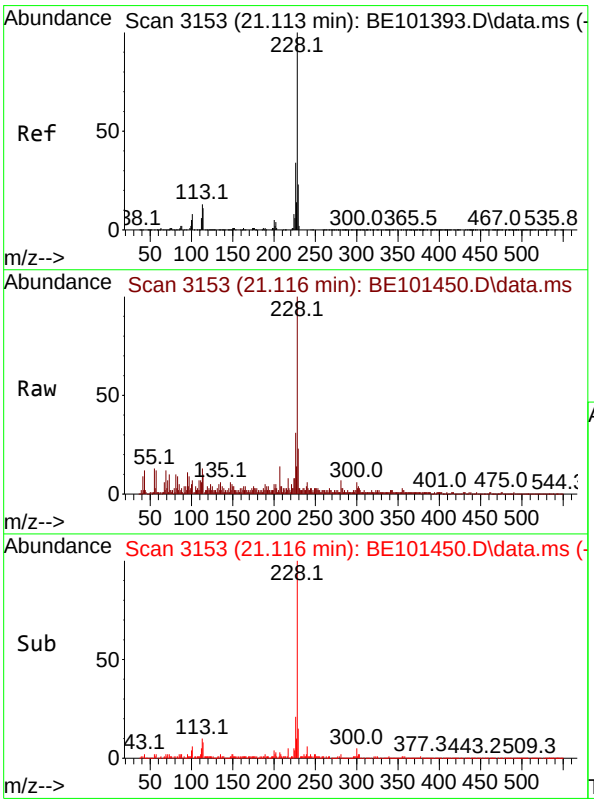
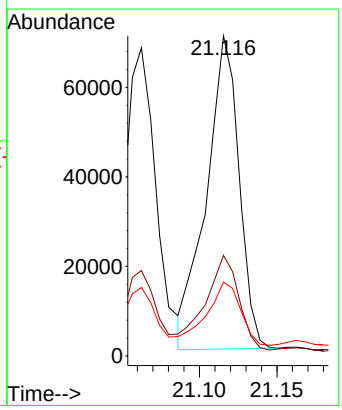
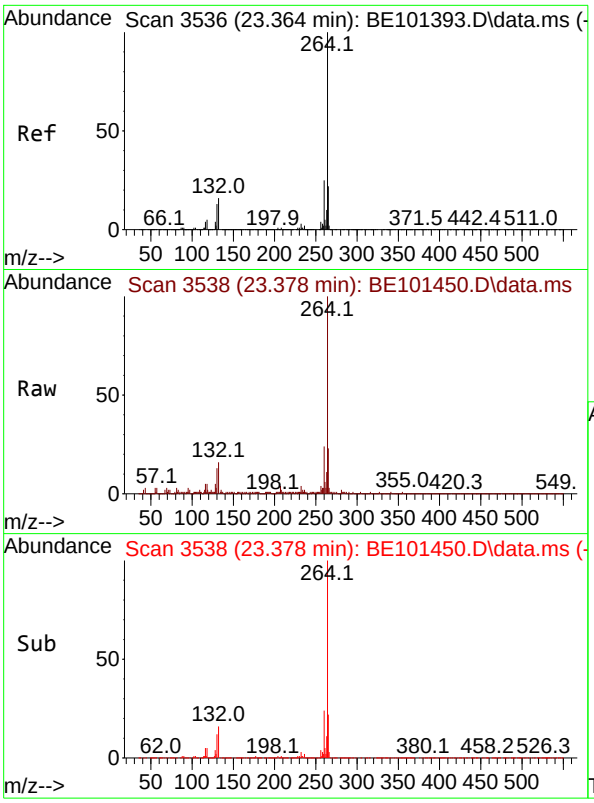


#83
Chrysene
Concen: 2.823 ng
RT: 21.116 min Scan# 3153
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:228 Resp: 102572

Ion	Ratio	Lower	Upper
228	100		
226	31.4	27.2	40.8
229	23.1	18.0	27.0

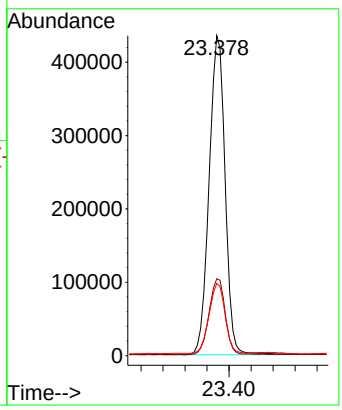




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.378 min Scan# 3
Delta R.T. 0.014 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:264 Resp: 87636

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.8	29.8
265	22.6	17.6	26.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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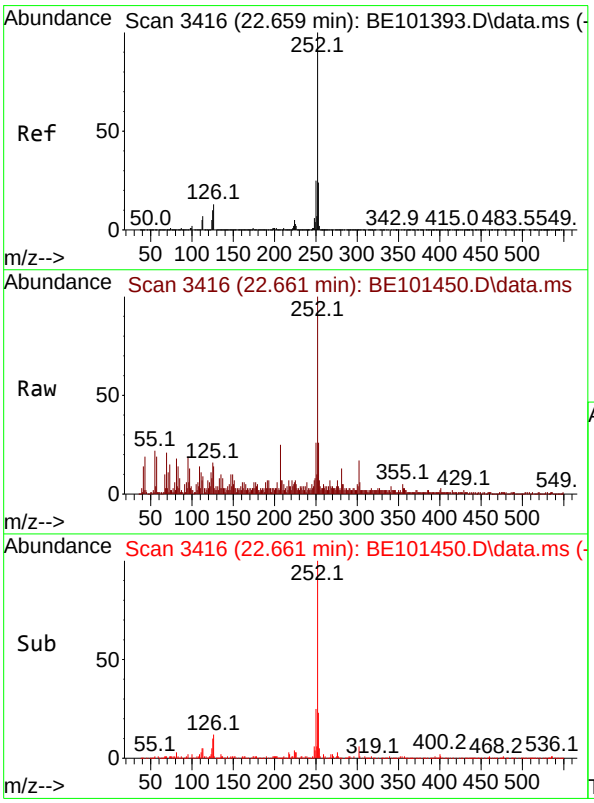
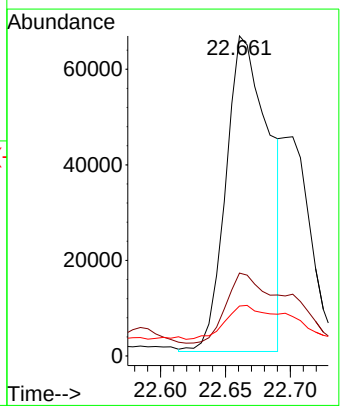
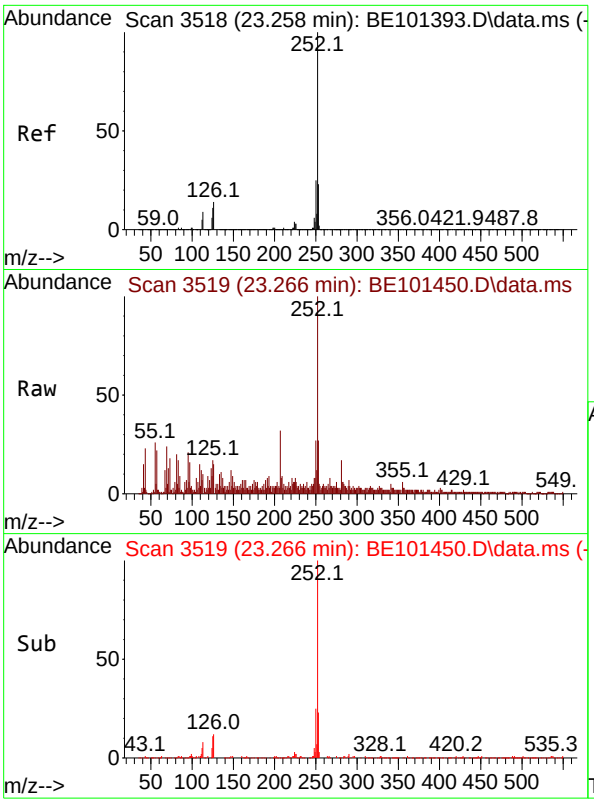


#88
Benzo(b)fluoranthene
Concen: 3.346 ng m
RT: 22.661 min Scan# 3416
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:252 Resp: 152832

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.0	28.6
125	15.6	8.2	12.2#

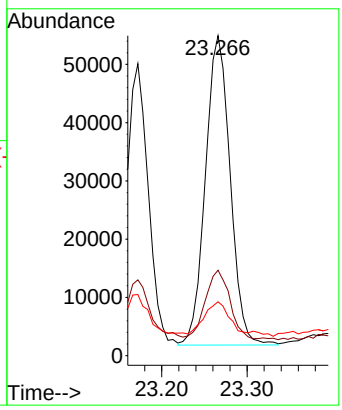




#90
Benzo(a)pyrene
Concen: 2.682 ng
RT: 23.266 min Scan# 3
Delta R.T. 0.008 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:252 Resp: 10714

Ion	Ratio	Lower	Upper
252	100		
253	26.7	18.4	27.6
125	16.8	9.0	13.6



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Raw Data: **BF140212.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.2	U	90.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.1	U	91.1	190	ug/Kg
95-57-8	2-Chlorophenol	90.9	U	90.9	190	ug/Kg
95-48-7	2-Methylphenol	87.7	U	87.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	98.9	U	98.9	190	ug/Kg
98-86-2	Acetophenone	94.6	U	94.6	190	ug/Kg
65794-96-9	3+4-Methylphenols	86.8	U	86.8	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	43.9	U	43.9	87.1	ug/Kg
67-72-1	Hexachloroethane	90.3	U	90.3	190	ug/Kg
98-95-3	Nitrobenzene	98.8	U	98.8	190	ug/Kg
78-59-1	Isophorone	92.1	U	92.1	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.4	U	93.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.2	U	82.2	190	ug/Kg
91-20-3	Naphthalene	89.9	U	89.9	190	ug/Kg
106-47-8	4-Chloroaniline	89.9	U	89.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	90.7	U	90.7	190	ug/Kg
105-60-2	Caprolactam	94.5	U	94.5	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.3	U	84.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	89.8	U	89.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	77.7	U	77.7	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	80.5	U	80.5	190	ug/Kg
92-52-4	1,1-Biphenyl	95.1	U	95.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	90.7	U	90.7	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	88.9	U	88.9	190	ug/Kg

Raw Data: **BF140212.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.1	U	94.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	90.5	U	90.5	190	ug/Kg
99-09-2	3-Nitroaniline	97.1	UQ	97.1	190	ug/Kg
83-32-9	Acenaphthene	88.3	U	88.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	91.9	U	91.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
84-66-2	Diethylphthalate	87.2	U	87.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.2	U	93.2	190	ug/Kg
86-73-7	Fluorene	93.1	U	93.1	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	88.8	U	88.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	85.9	U	85.9	190	ug/Kg
118-74-1	Hexachlorobenzene	92.5	U	92.5	190	ug/Kg
1912-24-9	Atrazine	99.5	U	99.5	190	ug/Kg
87-86-5	Pentachlorophenol	84.1	U	84.1	360	ug/Kg
85-01-8	Phenanthrene	91.4	U	91.4	190	ug/Kg
120-12-7	Anthracene	91.9	U	91.9	190	ug/Kg
86-74-8	Carbazole	87.4	U	87.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	91.7	U	91.7	190	ug/Kg
206-44-0	Fluoranthene	88.9	U	88.9	190	ug/Kg
129-00-0	Pyrene	90.3	U	90.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	87.8	U	87.8	190	ug/Kg
218-01-9	Chrysene	86.5	U	86.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.0	U	99.0	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.3	U	88.3	190	ug/Kg

Raw Data: **BF140212.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	89.9	U	89.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.0	U	85.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.4	U	88.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.2	U	87.2	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	94.5	U	94.5	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.3	U	81.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.2		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	88.9		30 (15) - 130 (107)	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.4		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	95.4		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	67.7		30 (10) - 130 (105)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.881			
1146-65-2	Naphthalene-d8	419000	8.163			
15067-26-2	Acenaphthene-d10	231000	9.922			
1517-22-2	Phenanthrene-d10	392000	11.416			
1719-03-5	Chrysene-d12	198000	14.068			
1520-96-3	Perylene-d12	222000	15.568			

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: **BF140212.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140212.D
Acq On : 01 Nov 2024 15:47
Operator : RC/JU
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 01 17:35:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	106496	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	419273	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	231436	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	391644	20.000	ng	0.00
76) Chrysene-d12	14.068	240	198159	20.000	ng	0.02
86) Perylene-d12	15.568	264	221860	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	593038	87.176	ng	0.00
7) Phenol-d6	6.504	99	782841	88.852	ng	0.00
23) Nitrobenzene-d5	7.439	82	540152	71.403	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	206576	95.426	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	972072	69.416	ng	-0.01
79) Terphenyl-d14	13.010	244	823333	67.703	ng	0.01
Target Compounds						Qvalue

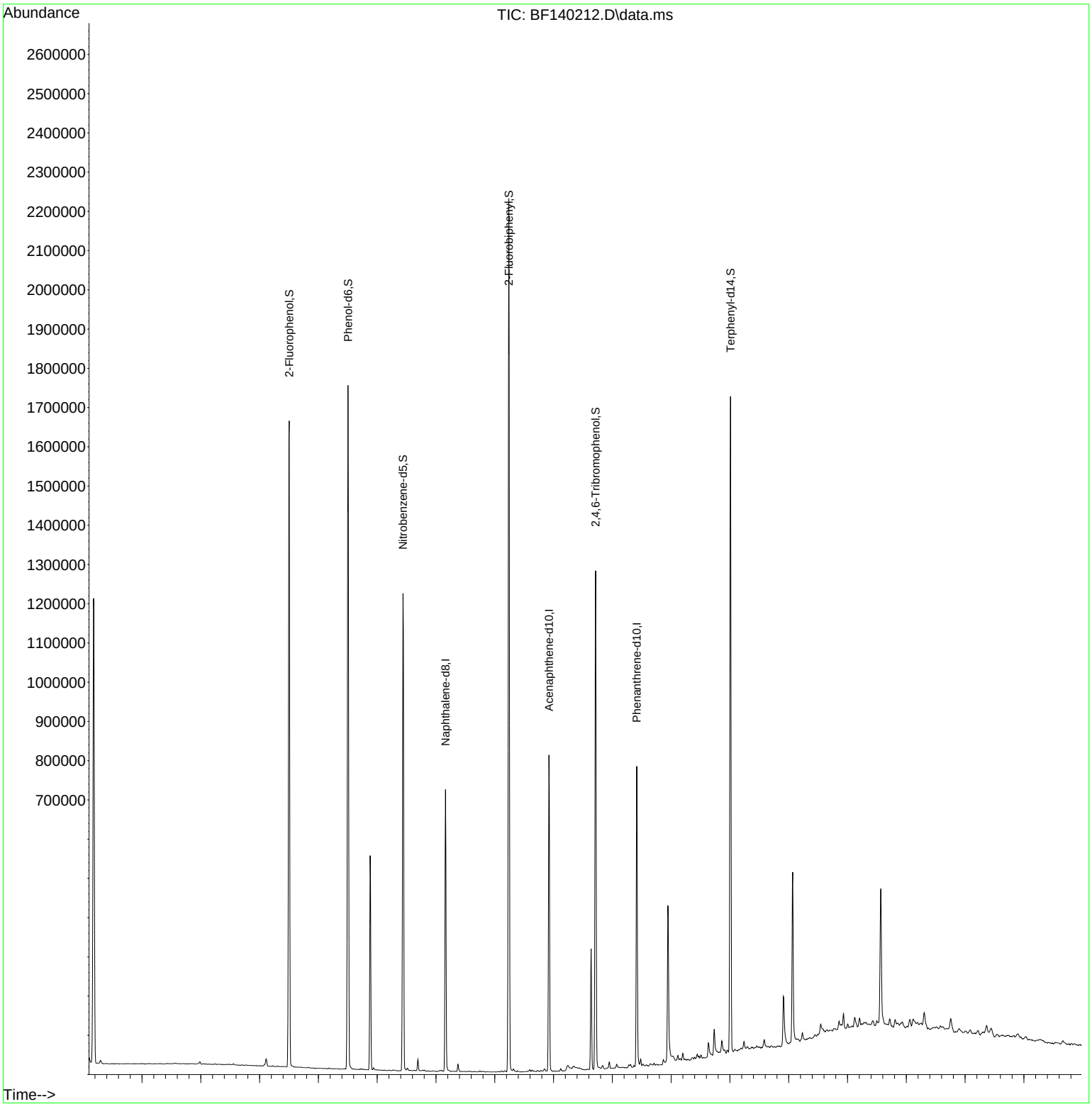
(#) = qualifier out of range (m) = manual integration (+) = signals summed

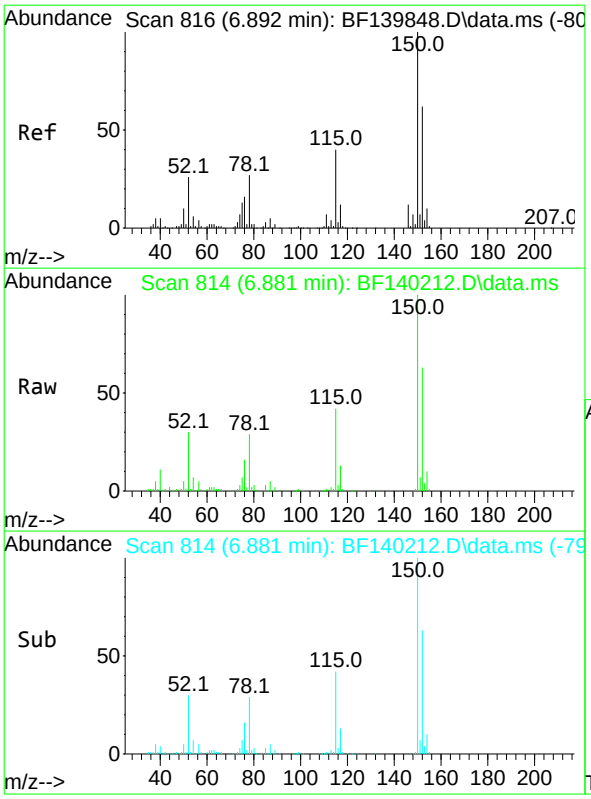
Sample Results: **BF140212.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140212.D
Acq On : 01 Nov 2024 15:47
Operator : RC/JU
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 01 17:35:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



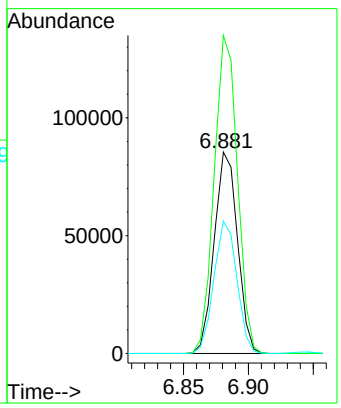


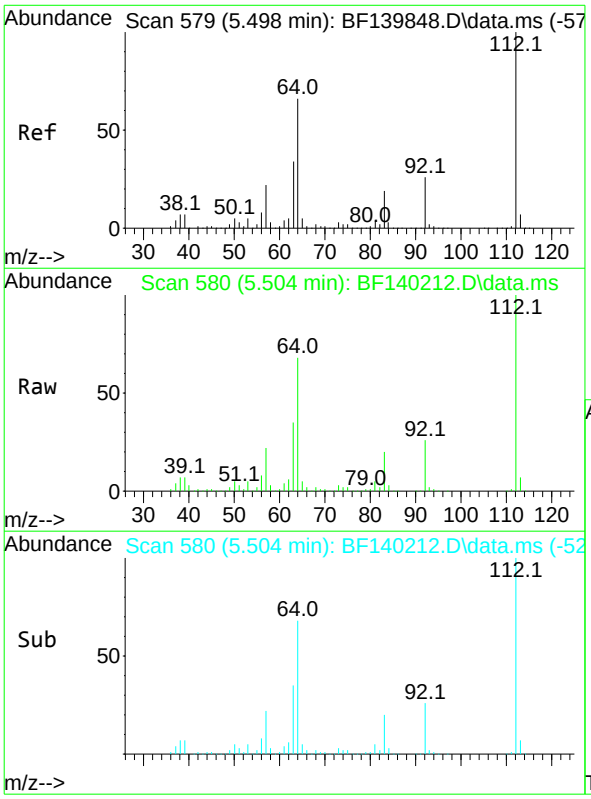
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:152 Resp: 106496

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	65.8	51.4	77.2

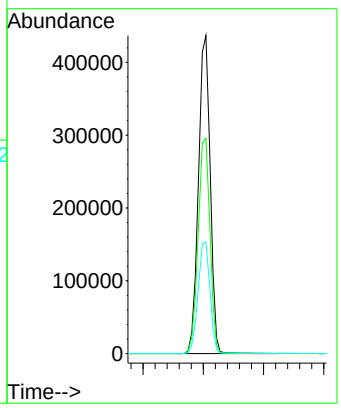


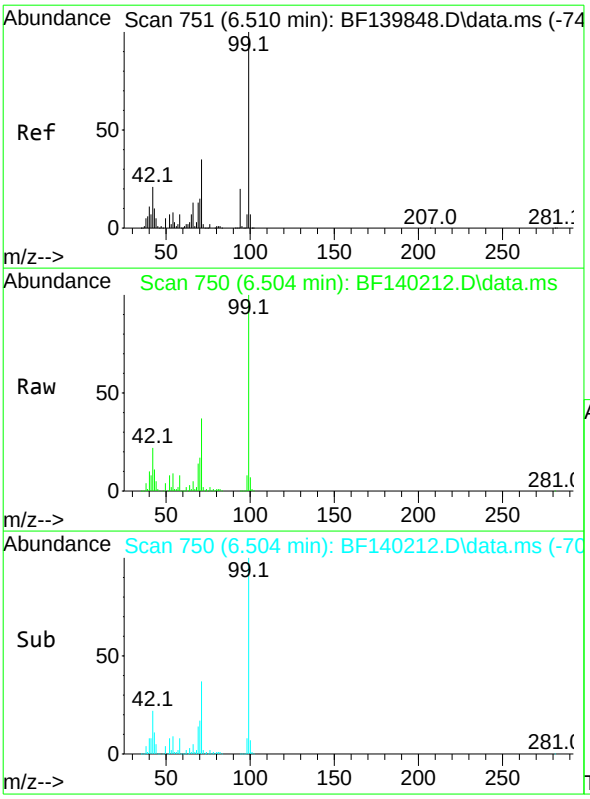


#5
2-Fluorophenol
Concen: 87.176 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:112 Resp: 593038

Ion	Ratio	Lower	Upper
112	100		
64	67.7	53.0	79.6
63	35.1	27.0	40.4



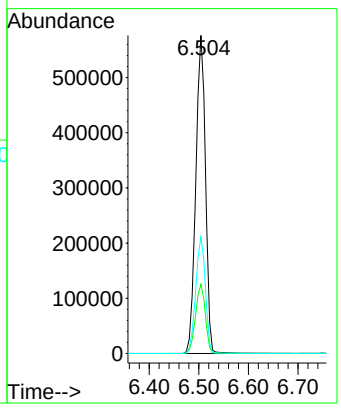


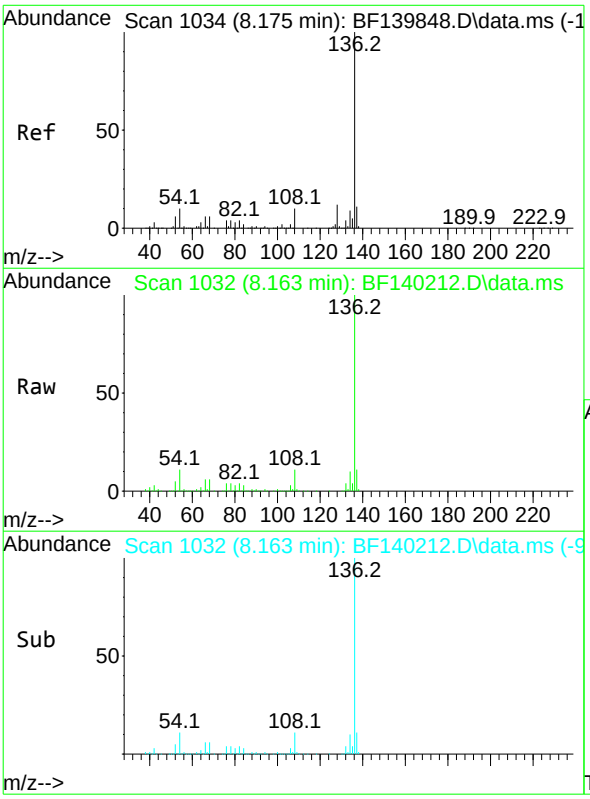
#7
Phenol-d6
Concen: 88.852 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 99 Resp: 782841

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.7	25.1
71	36.7	27.7	41.5

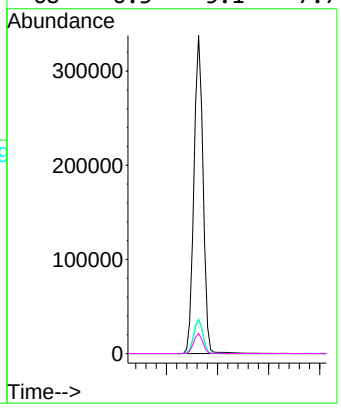


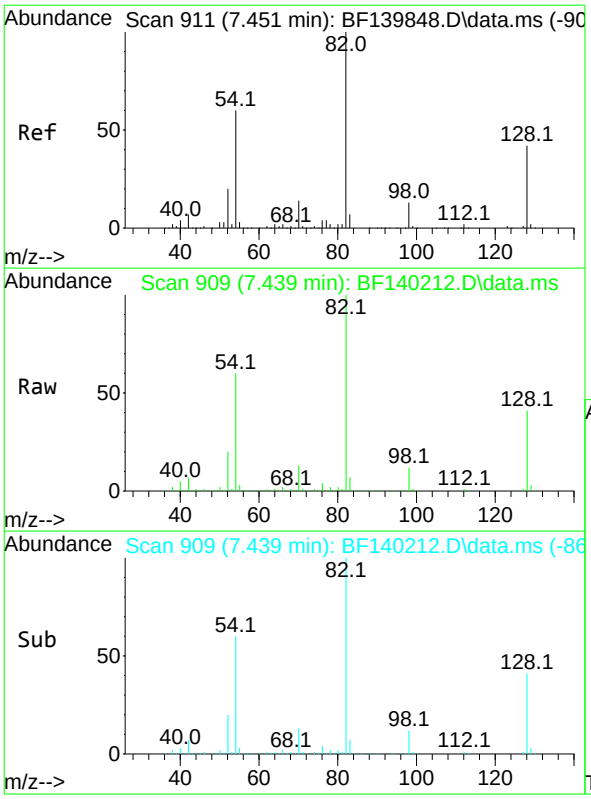


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:136 Resp: 419273

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	10.8	8.4	12.6
68	6.3	5.1	7.7



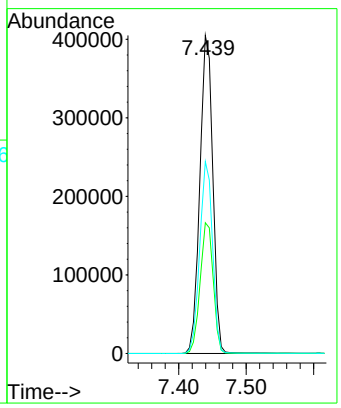


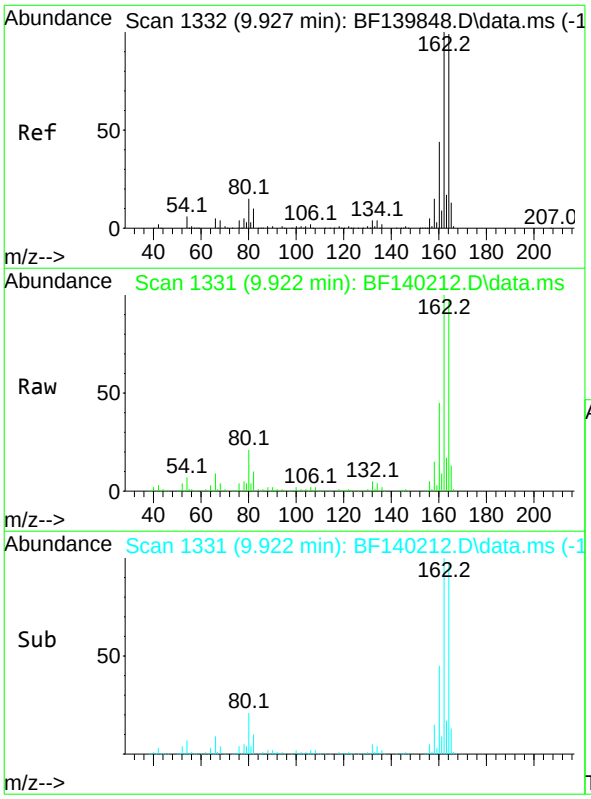
#23
Nitrobenzene-d5
Concen: 71.403 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 82 Resp: 540152

Ion	Ratio	Lower	Upper
82	100		
128	41.1	33.4	50.0
54	60.3	47.8	71.8

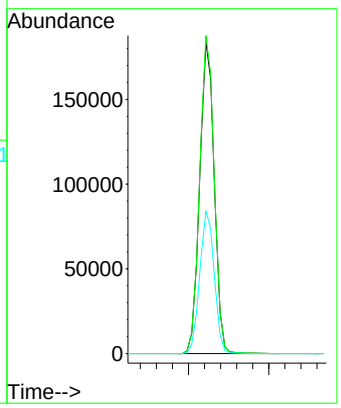


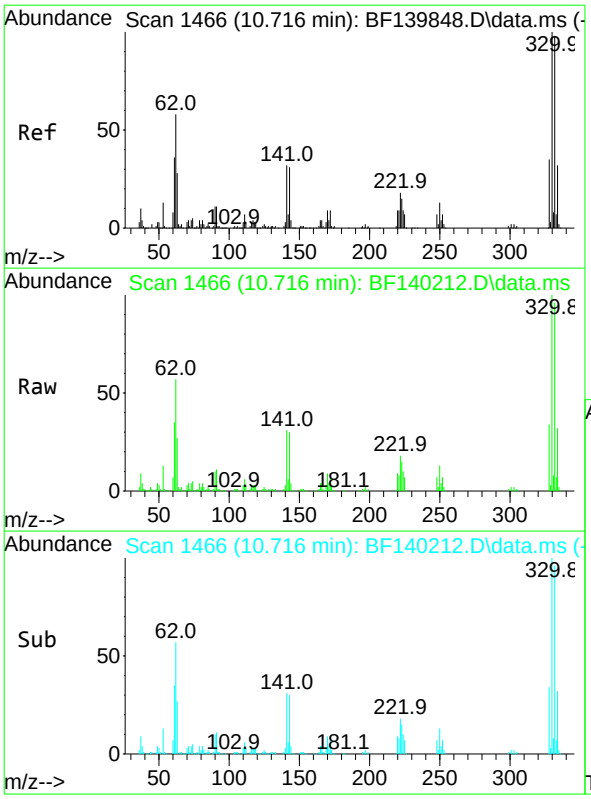


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:164 Resp: 231436

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.0	121.4
160	45.6	35.4	53.0



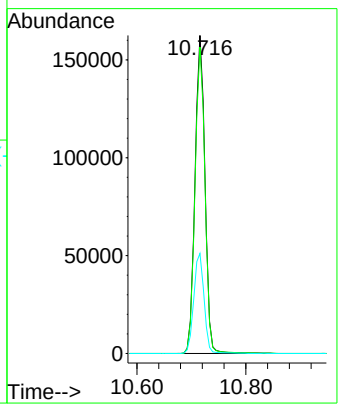


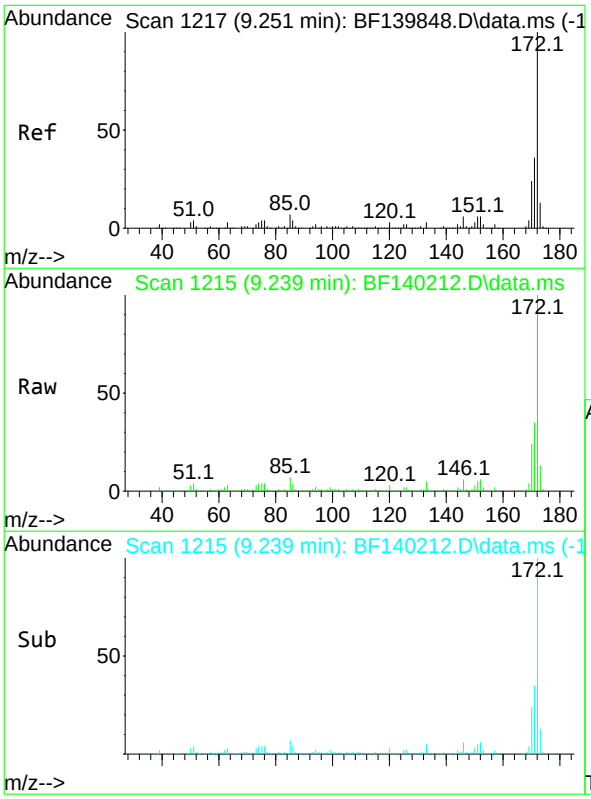
#42
2,4,6-Tribromophenol
Concen: 95.426 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:330 Resp: 206576

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.1	117.1
141	32.6	26.6	39.8

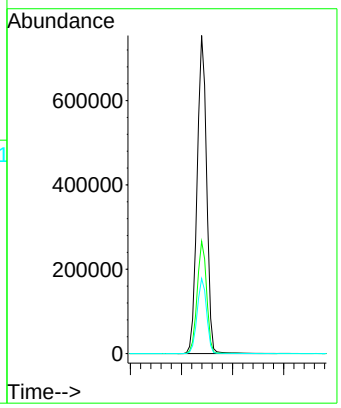


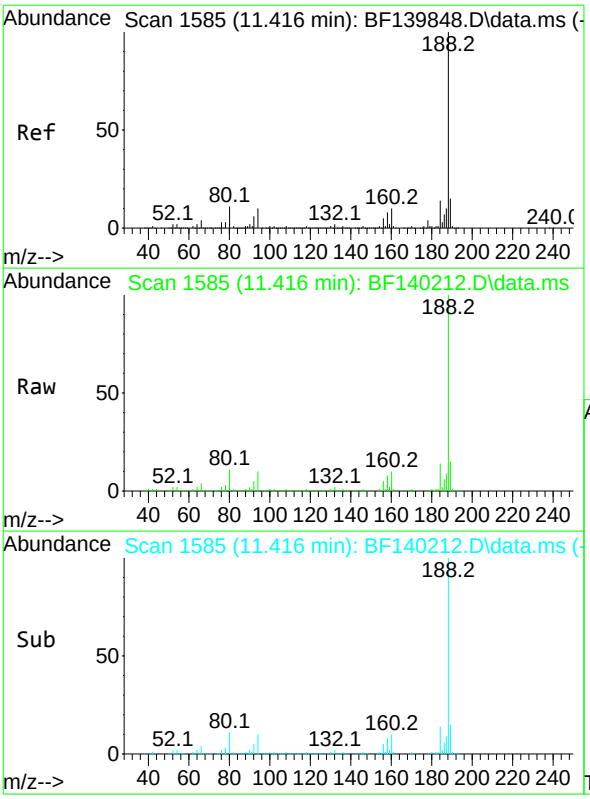


#45
2-Fluorobiphenyl
Concen: 69.416 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:172 Resp: 972072

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.6	19.1	28.7



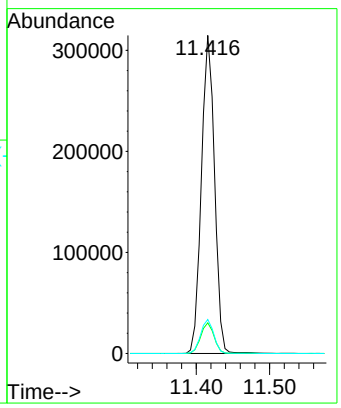


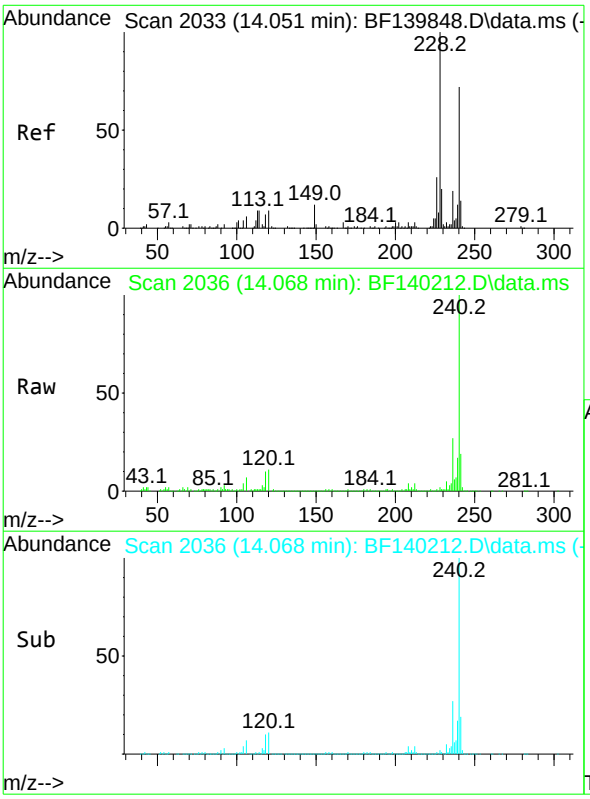
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 15
Delta R.T. 0.000 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:188 Resp: 391644

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.7	9.0	13.4

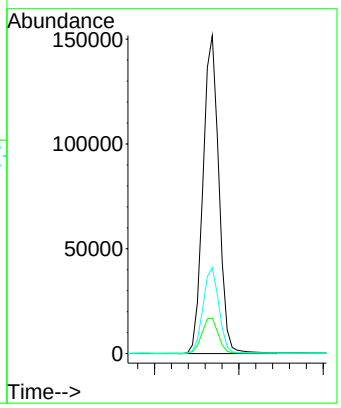


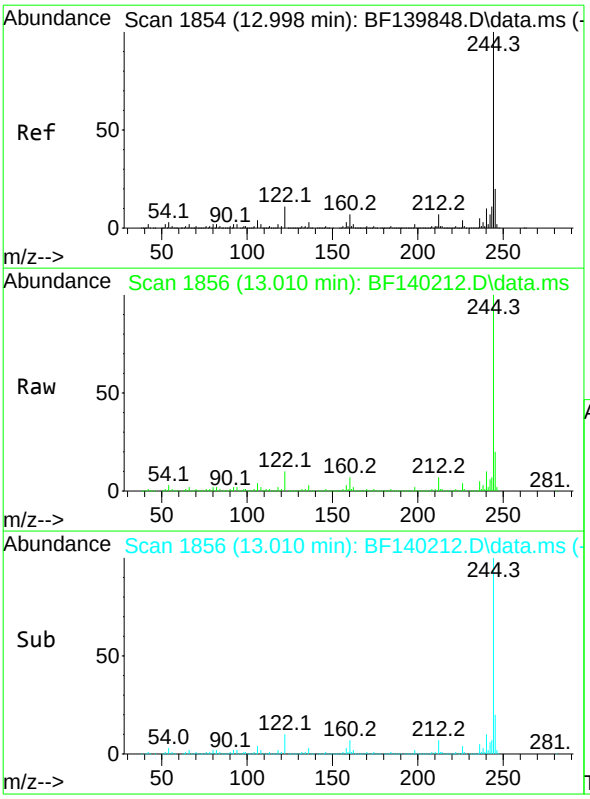


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:240 Resp: 198159

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	27.0	20.9	31.3



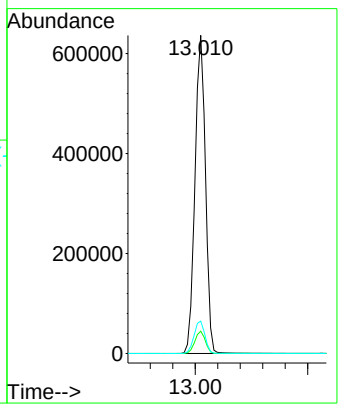


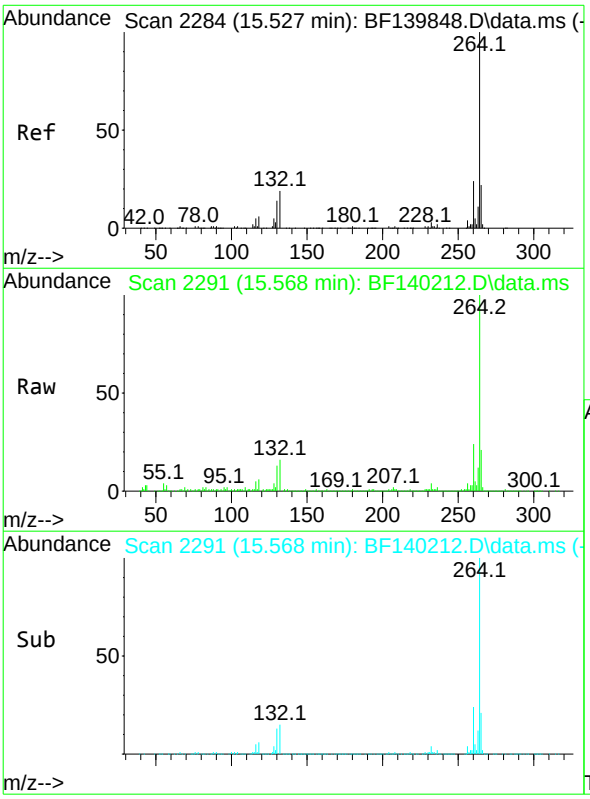
#79
Terphenyl-d14
Concen: 67.703 ng
RT: 13.010 min Scan# 18
Delta R.T. 0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:244 Resp: 823333

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	10.2	8.6	13.0

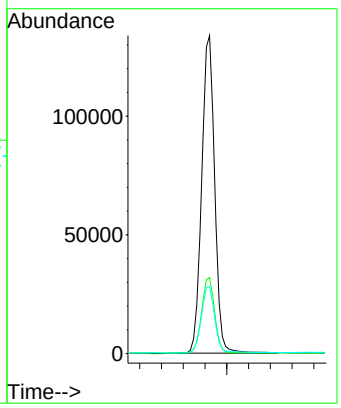




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2291
Delta R.T. 0.041 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:264 Resp: 221860

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.1	17.4	26.0



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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.7	U	90.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.5	U	91.5	190	ug/Kg
95-57-8	2-Chlorophenol	91.3	U	91.3	190	ug/Kg
95-48-7	2-Methylphenol	88.1	U	88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.4	U	99.4	190	ug/Kg
98-86-2	Acetophenone	95.0	U	95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.3	U	87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.1	U	44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	90.8	U	90.8	190	ug/Kg
98-95-3	Nitrobenzene	99.3	U	99.3	190	ug/Kg
78-59-1	Isophorone	92.5	U	92.5	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.8	U	93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.6	U	82.6	190	ug/Kg
91-20-3	Naphthalene	90.3	U	90.3	190	ug/Kg
106-47-8	4-Chloroaniline	90.3	U	90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.1	U	91.1	190	ug/Kg
105-60-2	Caprolactam	94.9	U	94.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.8	U	84.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.2	U	90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.1	U	78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	80.9	U	80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	95.6	U	95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.1	U	91.1	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.3	U	89.3	190	ug/Kg

Raw Data: **BE101448.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.6	U	94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.0	U	91.0	190	ug/Kg
99-09-2	3-Nitroaniline	97.5	UQ	97.5	190	ug/Kg
83-32-9	Acenaphthene	88.7	U	88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.3	U	92.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.3	U	94.3	190	ug/Kg
84-66-2	Diethylphthalate	87.6	U	87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.6	U	93.6	190	ug/Kg
86-73-7	Fluorene	93.5	U	93.5	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.2	U	89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.3	U	86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	93.0	U	93.0	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	84.5	U	84.5	360	ug/Kg
85-01-8	Phenanthrene	91.9	U	91.9	190	ug/Kg
120-12-7	Anthracene	92.3	U	92.3	190	ug/Kg
86-74-8	Carbazole	87.8	U	87.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.2	U	92.2	190	ug/Kg
206-44-0	Fluoranthene	89.3	U	89.3	190	ug/Kg
129-00-0	Pyrene	90.8	U	90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	88.3	U	88.3	190	ug/Kg
218-01-9	Chrysene	86.9	U	86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.5	U	99.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.7	U	88.7	190	ug/Kg

Raw Data: **BE101448.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.3	U	90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.4	U	85.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.8	U	88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.6	U	87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	94.9	U	94.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.7	U	81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	99.6		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.6		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.9		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	71.8		30 (10) - 130 (105)	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69400	7.575			
1146-65-2	Naphthalene-d8	297000	10.337			
15067-26-2	Acenaphthene-d10	198000	14.179			
1517-22-2	Phenanthrene-d10	455000	16.917			
1719-03-5	Chrysene-d12	540000	21.083			
1520-96-3	Perylene-d12	717000	23.374			

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_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

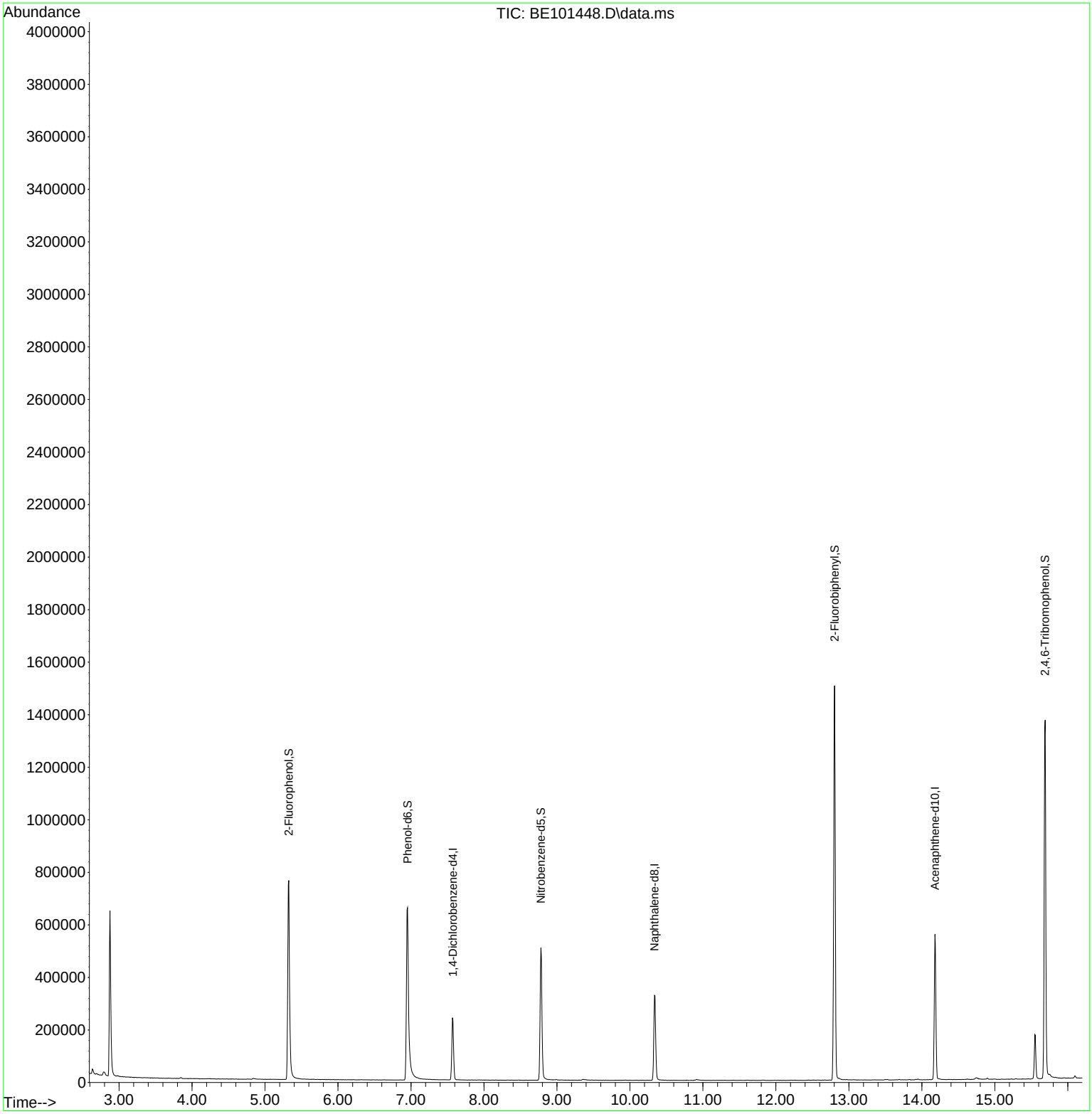
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	69420	20.000	ng	0.00
21) Naphthalene-d8	10.337	136	296978	20.000	ng	0.00
39) Acenaphthene-d10	14.179	164	197789	20.000	ng	0.00
64) Phenanthrene-d10	16.917	188	455282	20.000	ng	0.00
76) Chrysene-d12	21.083	240	540190	20.000	ng	0.00
86) Perylene-d12	23.374	264	717080	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.325	112	421241	106.352	ng	0.00
7) Phenol-d6	6.952	99	547227	99.639	ng	0.00
23) Nitrobenzene-d5	8.780	82	314844	66.588	ng	0.00
42) 2,4,6-Tribromophenol	15.689	330	354276	102.197	ng	0.00
45) 2-Fluorobiphenyl	12.804	172	805201	68.944	ng	0.00
79) Terphenyl-d14	19.514	244	1684321	71.763	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

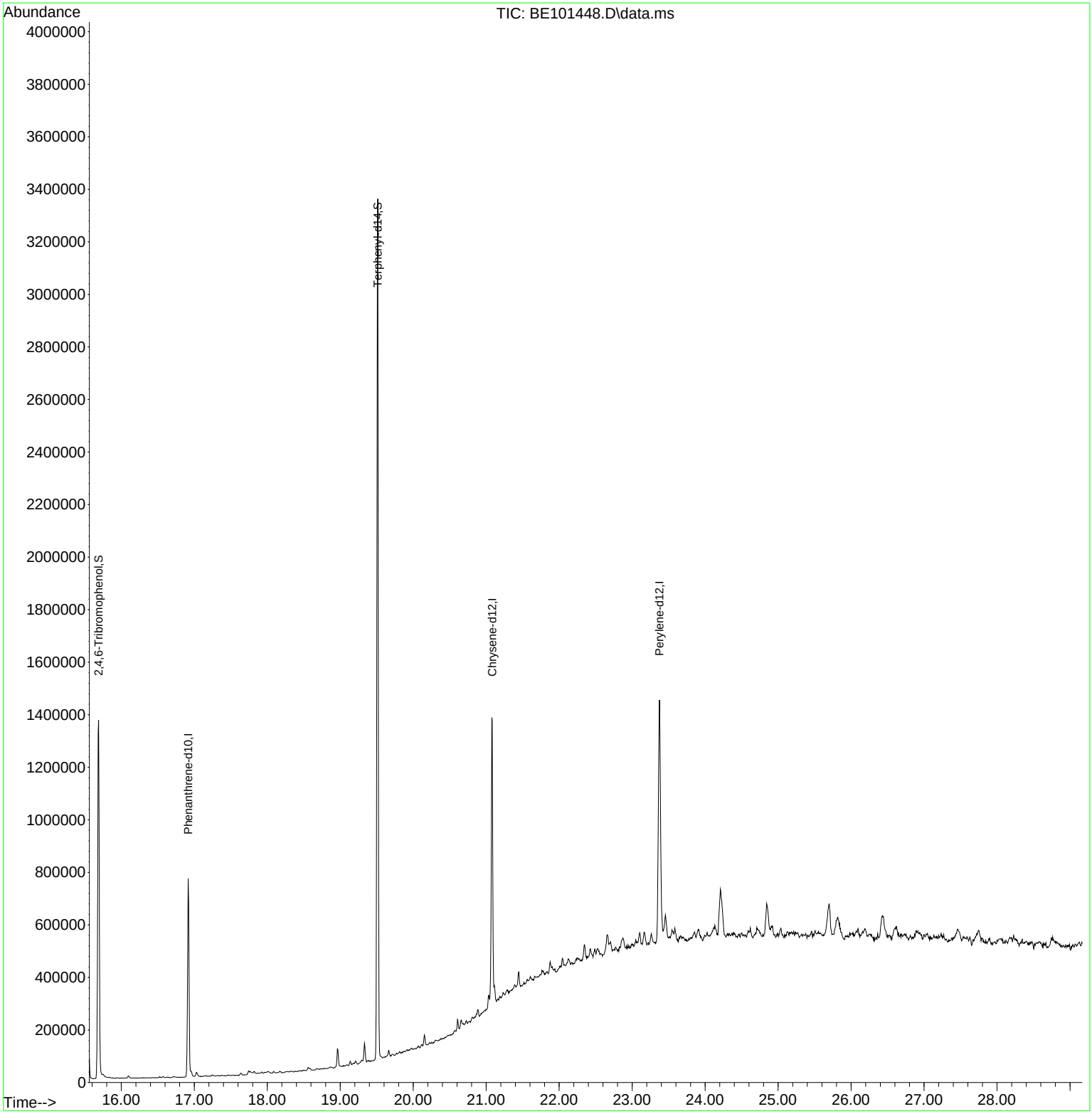


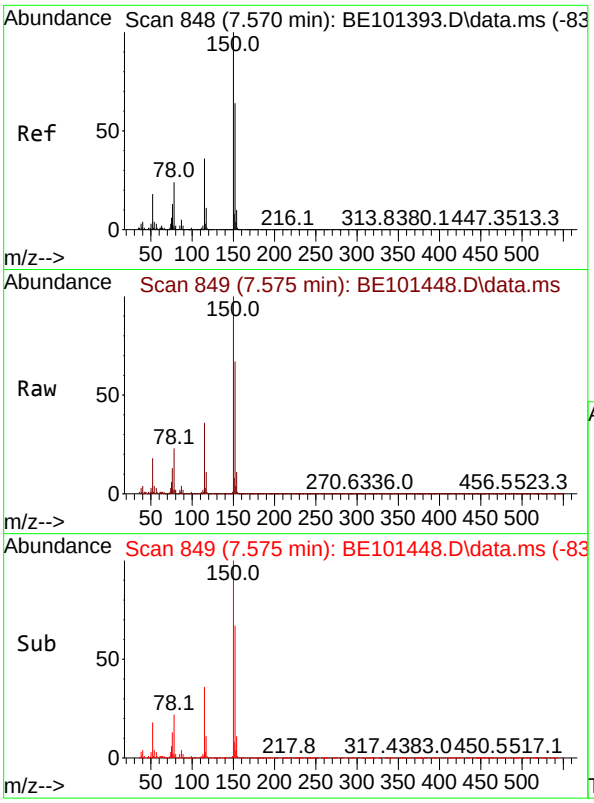
Sample Results: **BE101448.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



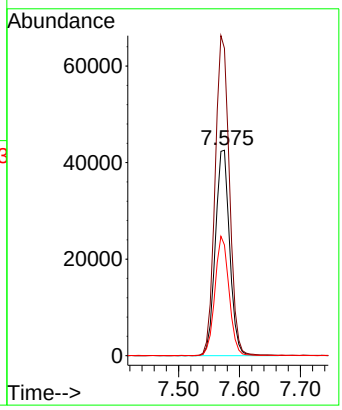


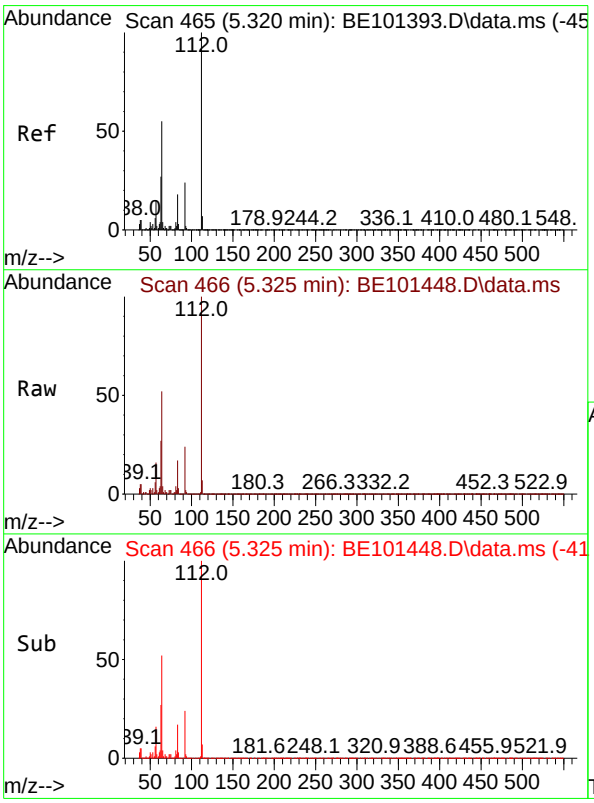
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.575 min Scan# 84
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:152 Resp: 69420

Ion	Ratio	Lower	Upper
152	100		
150	149.5	124.2	186.4
115	53.9	45.3	67.9

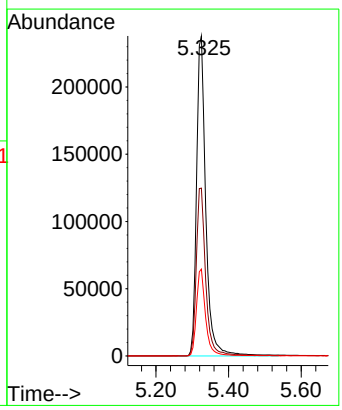


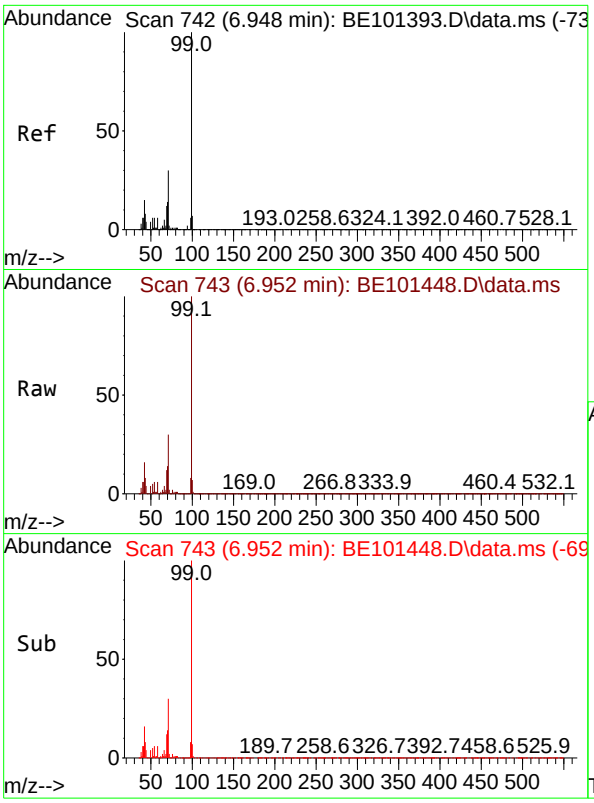


#5
2-Fluorophenol
Concen: 106.352 ng
RT: 5.325 min Scan# 466
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:112 Resp: 421241

Ion	Ratio	Lower	Upper
112	100		
64	52.5	43.7	65.5
63	27.1	21.4	32.2



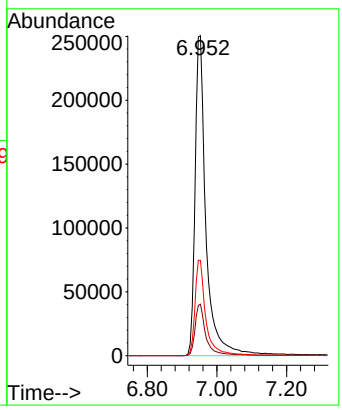


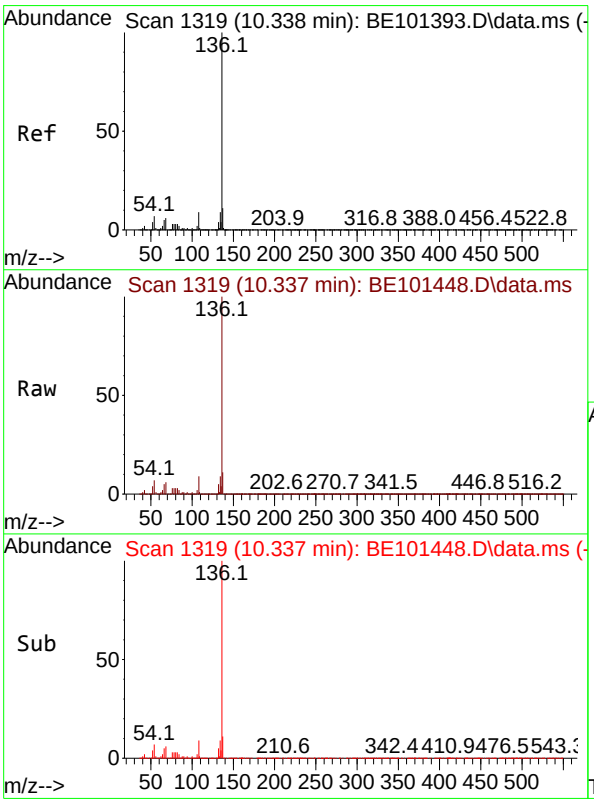
#7
Phenol-d6
Concen: 99.639 ng
RT: 6.952 min Scan# 7
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 99 Resp: 547227

Ion	Ratio	Lower	Upper
99	100		
42	16.1	12.3	18.5
71	29.8	23.8	35.8

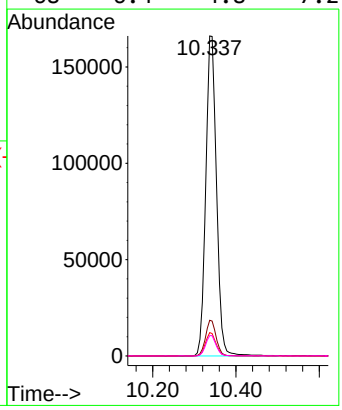


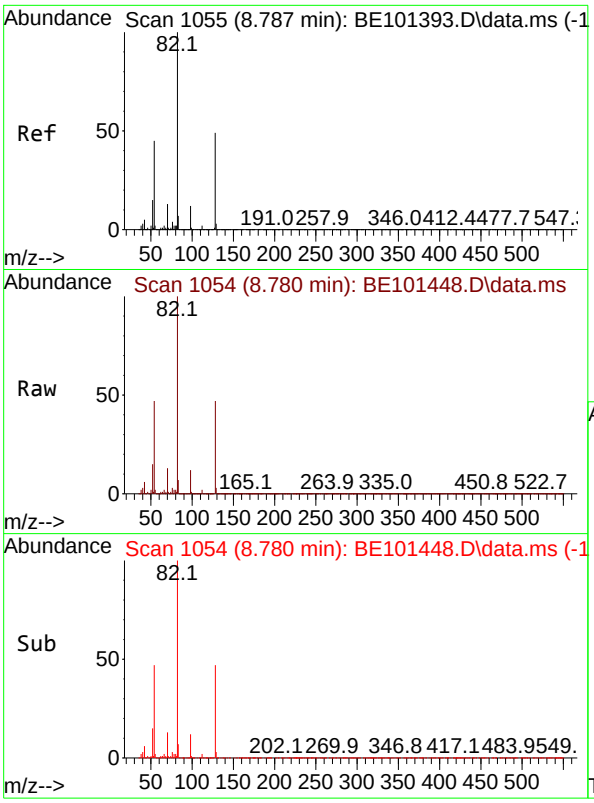


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.337 min Scan# 1319
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:136 Resp: 296978

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.3	5.9	8.9
68	6.4	4.8	7.2



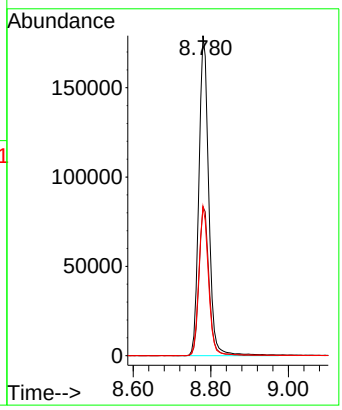


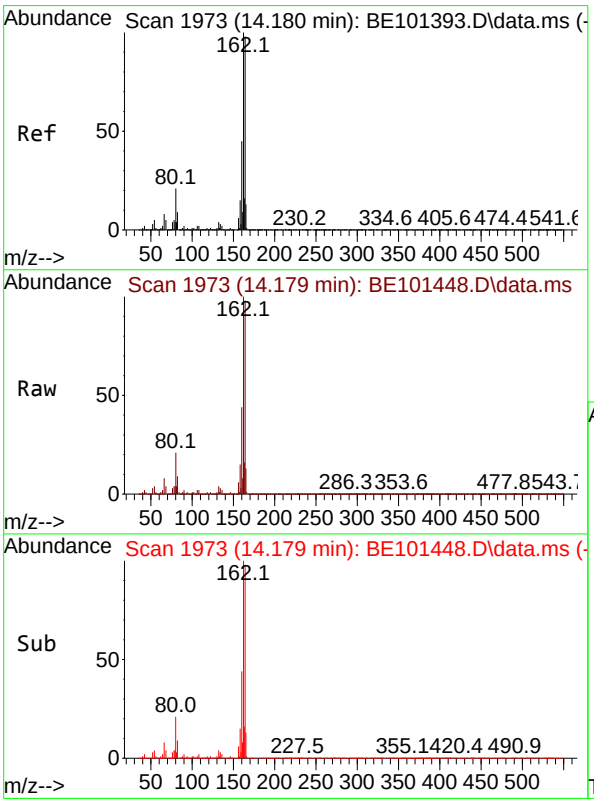
#23
Nitrobenzene-d5
Concen: 66.588 ng
RT: 8.780 min Scan# 1
Delta R.T. -0.007 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 82 Resp: 314844

Ion	Ratio	Lower	Upper
82	100		
128	46.6	38.9	58.3
54	46.5	36.2	54.4

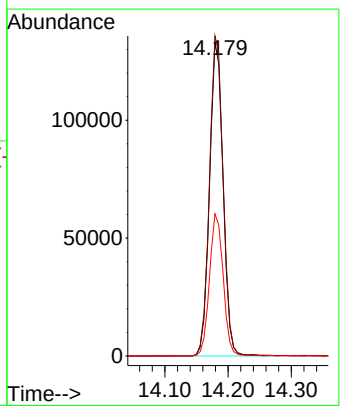


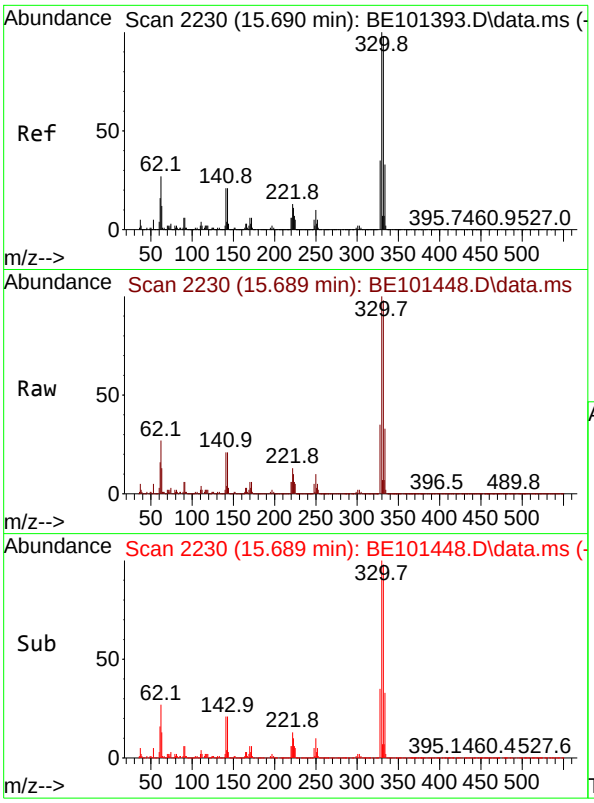


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.179 min Scan# 1973
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:164 Resp: 197789

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.3	121.9
160	45.4	36.4	54.6



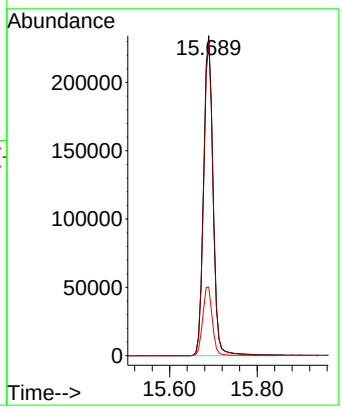


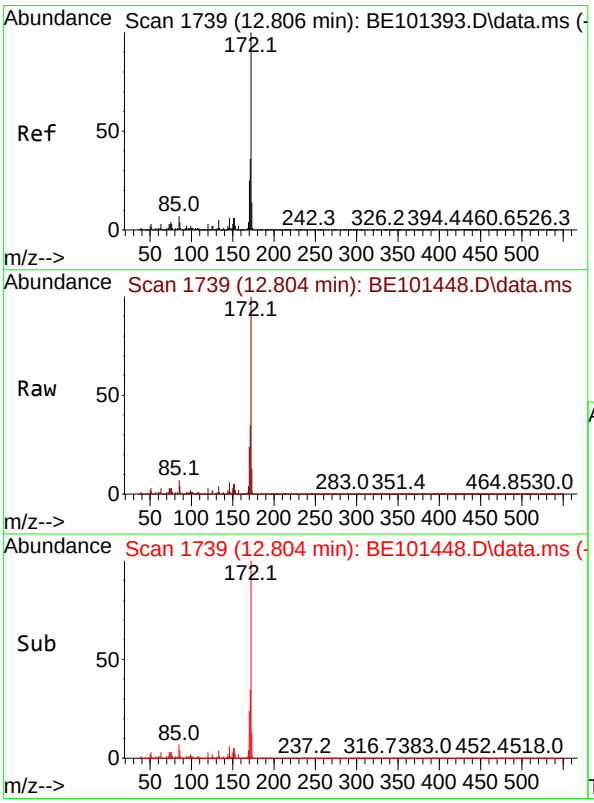
#42
2,4,6-Tribromophenol
Concen: 102.197 ng
RT: 15.689 min Scan# 2
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:330 Resp: 354276

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.2	117.2
141	21.9	18.3	27.5

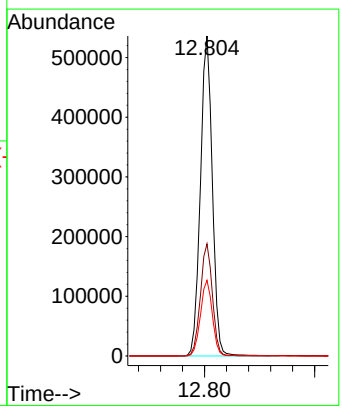


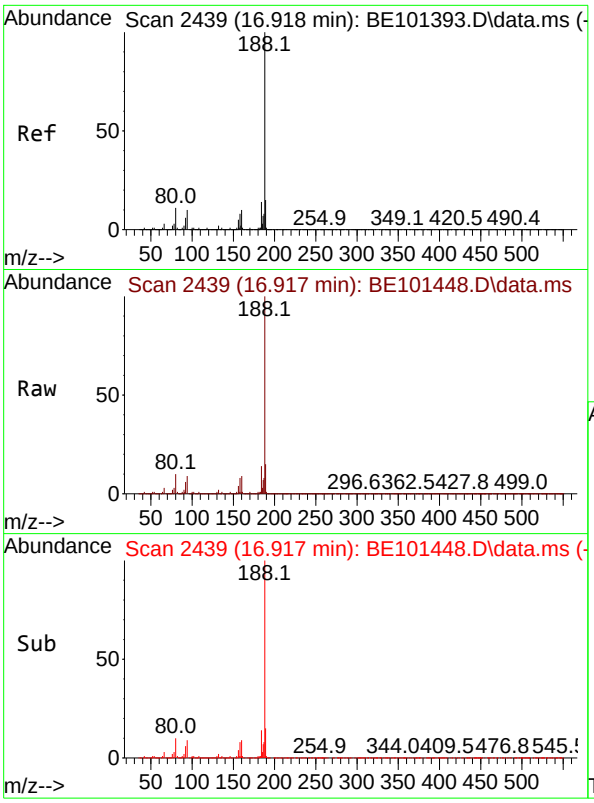


#45
2-Fluorobiphenyl
Concen: 68.944 ng
RT: 12.804 min Scan# 1739
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:172 Resp: 805201

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.2	43.8
170	23.6	19.8	29.6



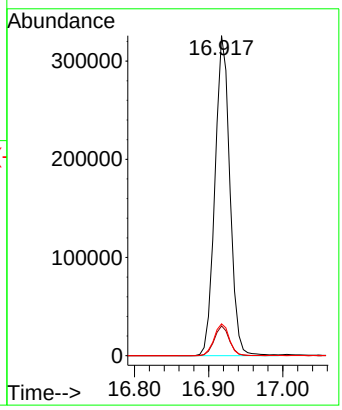


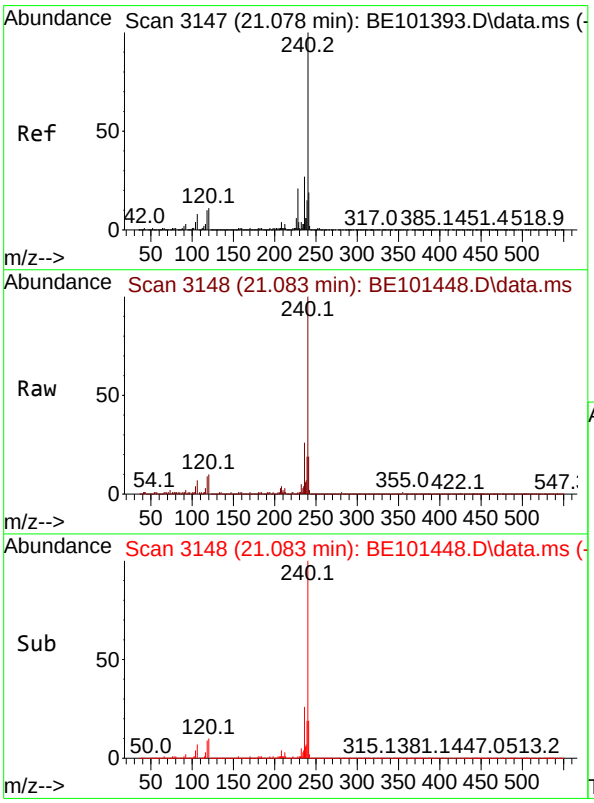
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.917 min Scan# 24
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:188 Resp: 455282

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.8	11.8
80	10.0	8.6	12.8

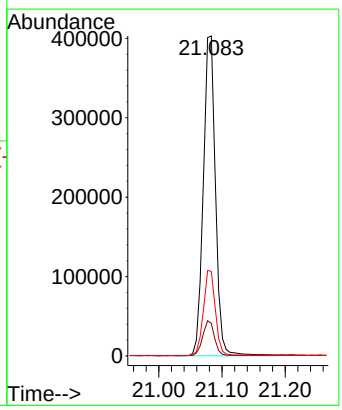


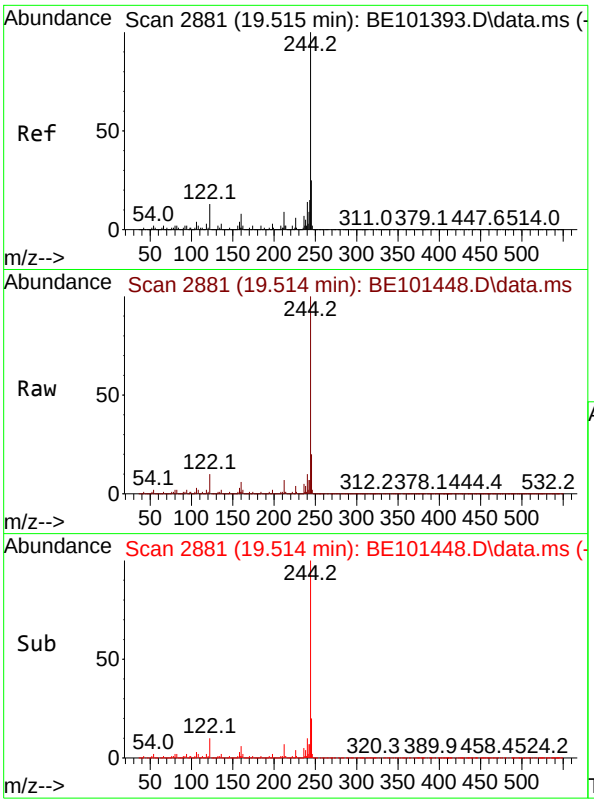


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.083 min Scan# 3148
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:240 Resp: 540190

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.0	13.4
236	26.5	21.4	32.0



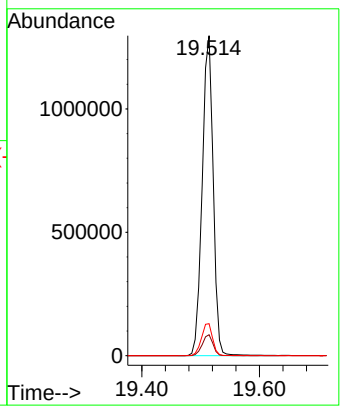


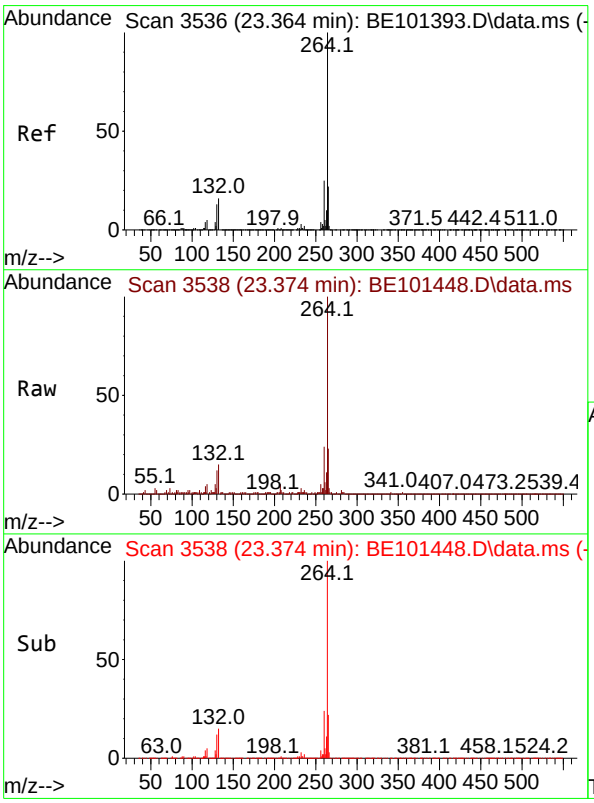
#79
Terphenyl-d14
Concen: 71.763 ng
RT: 19.514 min Scan# 2
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:244 Resp: 1684321

Ion	Ratio	Lower	Upper
244	100		
212	6.6	7.2	10.8#
122	10.0	10.4	15.6#

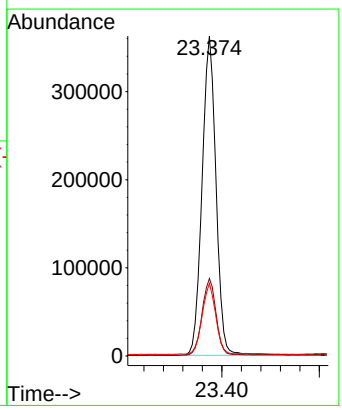




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.374 min Scan# 3538
Delta R.T. 0.011 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:264 Resp: 717080

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.8	29.8
265	22.7	17.6	26.4



Raw Data: **BF140208.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.7	U	90.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.6	U	91.6	190	ug/Kg
95-57-8	2-Chlorophenol	91.4	U	91.4	190	ug/Kg
95-48-7	2-Methylphenol	88.2	U	88.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.5	U	99.5	190	ug/Kg
98-86-2	Acetophenone	95.1	U	95.1	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.3	U	87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.1	U	44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	90.8	U	90.8	190	ug/Kg
98-95-3	Nitrobenzene	99.4	U	99.4	190	ug/Kg
78-59-1	Isophorone	92.6	U	92.6	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.9	U	93.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.6	U	82.6	190	ug/Kg
91-20-3	Naphthalene	90.4	U	90.4	190	ug/Kg
106-47-8	4-Chloroaniline	90.4	U	90.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.1	U	91.1	190	ug/Kg
105-60-2	Caprolactam	95.0	U	95.0	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.8	U	84.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.3	U	90.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.1	U	78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.0	U	81.0	190	ug/Kg
92-52-4	1,1-Biphenyl	95.6	U	95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.1	U	91.1	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.4	U	89.4	190	ug/Kg

Raw Data: **BF140208.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.6	U	94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.0	U	91.0	190	ug/Kg
99-09-2	3-Nitroaniline	97.6	UQ	97.6	190	ug/Kg
83-32-9	Acenaphthene	88.7	U	88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.4	U	92.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.3	U	94.3	190	ug/Kg
84-66-2	Diethylphthalate	87.6	U	87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.7	U	93.7	190	ug/Kg
86-73-7	Fluorene	93.6	U	93.6	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.3	U	89.3	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.3	U	86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	93.0	U	93.0	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	84.6	U	84.6	360	ug/Kg
85-01-8	Phenanthrene	91.9	U	91.9	190	ug/Kg
120-12-7	Anthracene	92.4	U	92.4	190	ug/Kg
86-74-8	Carbazole	87.9	U	87.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.2	U	92.2	190	ug/Kg
206-44-0	Fluoranthene	89.4	U	89.4	190	ug/Kg
129-00-0	Pyrene	90.8	U	90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	88.3	U	88.3	190	ug/Kg
218-01-9	Chrysene	87.0	U	87.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.6	U	99.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.7	U	88.7	190	ug/Kg

Raw Data: **BF140208.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.4	U	90.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.5	U	85.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.8	U	88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.6	U	87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.0	U	95.0	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.7	U	81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.7		30 (18) - 130 (107)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		30 (10) - 130 (116)	75%	SPK: 150
1718-51-0	Terphenyl-d14	80.0		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.881			
1146-65-2	Naphthalene-d8	423000	8.163			
15067-26-2	Acenaphthene-d10	243000	9.927			
1517-22-2	Phenanthrene-d10	448000	11.421			
1719-03-5	Chrysene-d12	249000	14.074			
1520-96-3	Perylene-d12	218000	15.574			

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: **BF140208.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140208.D
Acq On : 01 Nov 2024 14:00
Operator : RC/JU
Sample : P4663-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 01 14:53:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	105943	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	422510	20.000	ng	-0.01
39) Acenaphthene-d10	9.927	164	242556	20.000	ng	0.00
64) Phenanthrene-d10	11.421	188	447541	20.000	ng	0.00
76) Chrysene-d12	14.074	240	249474	20.000	ng	0.02
86) Perylene-d12	15.574	264	218114	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	686919	101.504	ng	0.00
7) Phenol-d6	6.504	99	886554	101.148	ng	0.00
23) Nitrobenzene-d5	7.439	82	607199	79.651	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	253967	111.939	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1101325	75.041	ng	-0.01
79) Terphenyl-d14	13.015	244	1224403	79.974	ng	0.02
Target Compounds						Qvalue

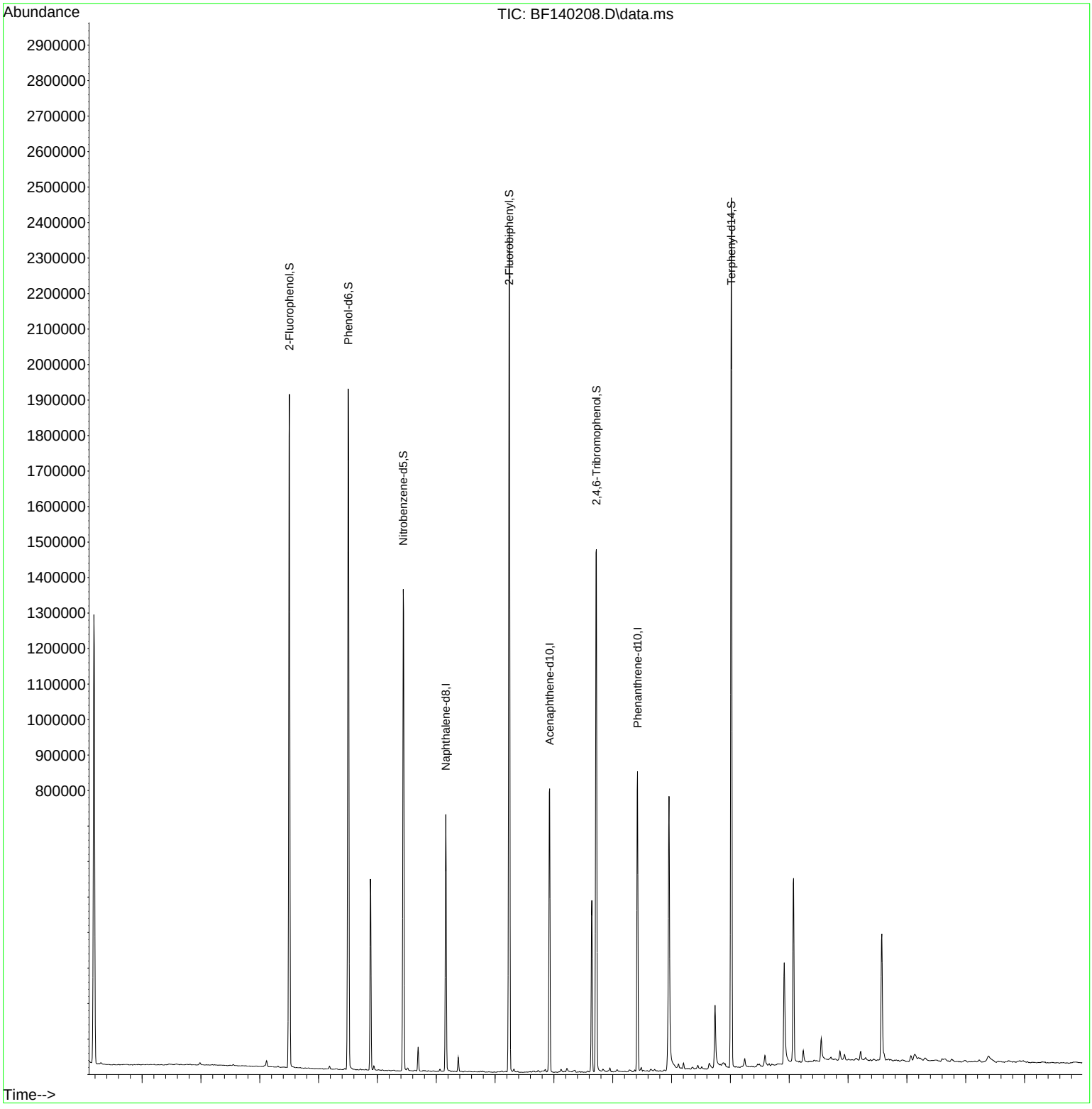
(#) = qualifier out of range (m) = manual integration (+) = signals summed

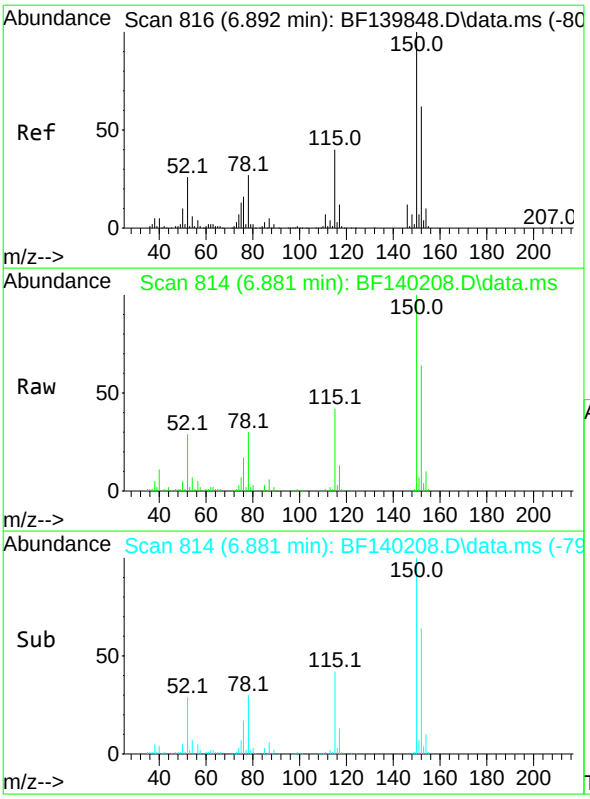
Sample Results: **BF140208.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140208.D
Acq On : 01 Nov 2024 14:00
Operator : RC/JU
Sample : P4663-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 01 14:53:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



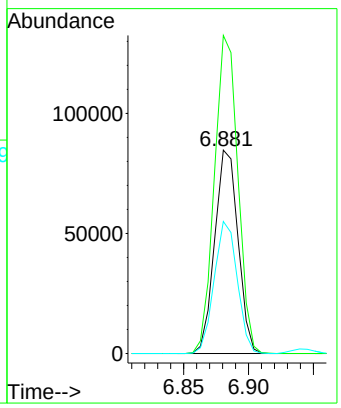


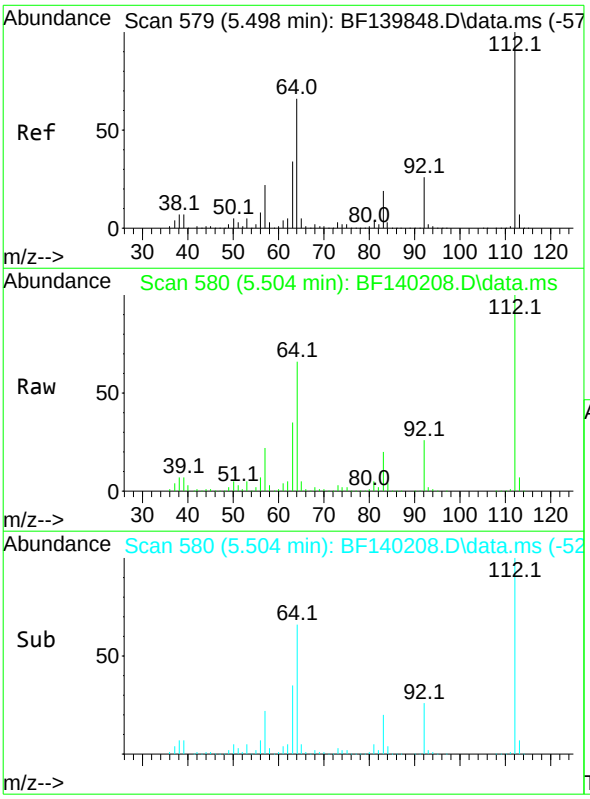
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:152 Resp: 105943

Ion	Ratio	Lower	Upper
152	100		
150	156.4	130.2	195.2
115	64.9	51.4	77.2

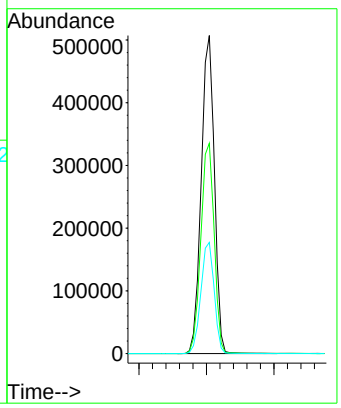


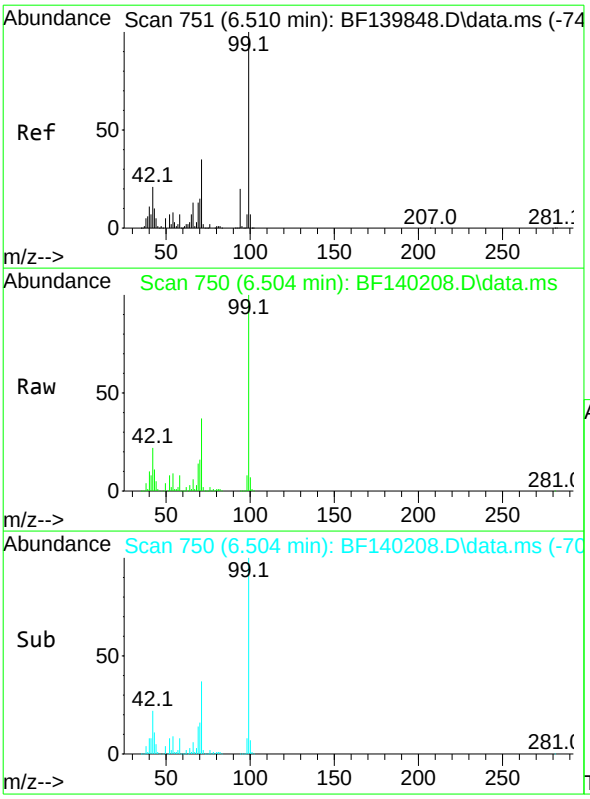


#5
2-Fluorophenol
Concen: 101.504 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:112 Resp: 686919

Ion	Ratio	Lower	Upper
112	100		
64	66.1	53.0	79.6
63	35.0	27.0	40.4



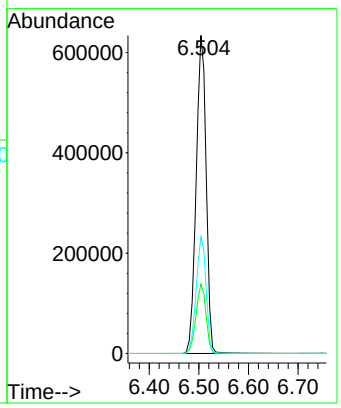


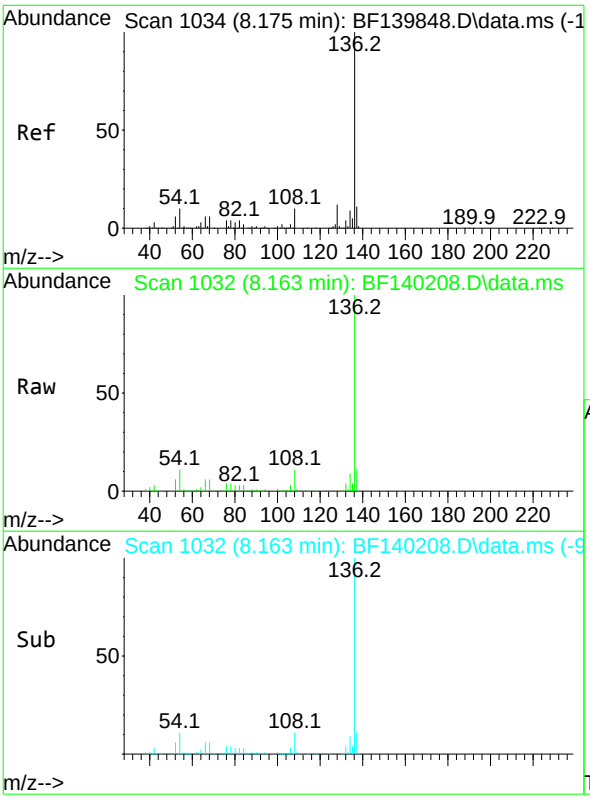
#7
Phenol-d6
Concen: 101.148 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 99 Resp: 886554

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.7	25.1
71	36.8	27.7	41.5

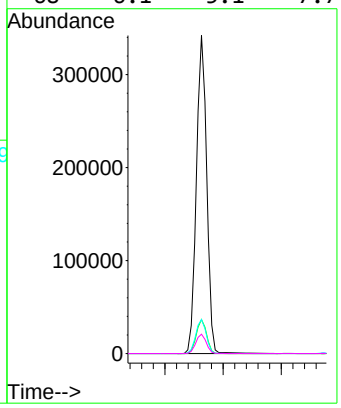


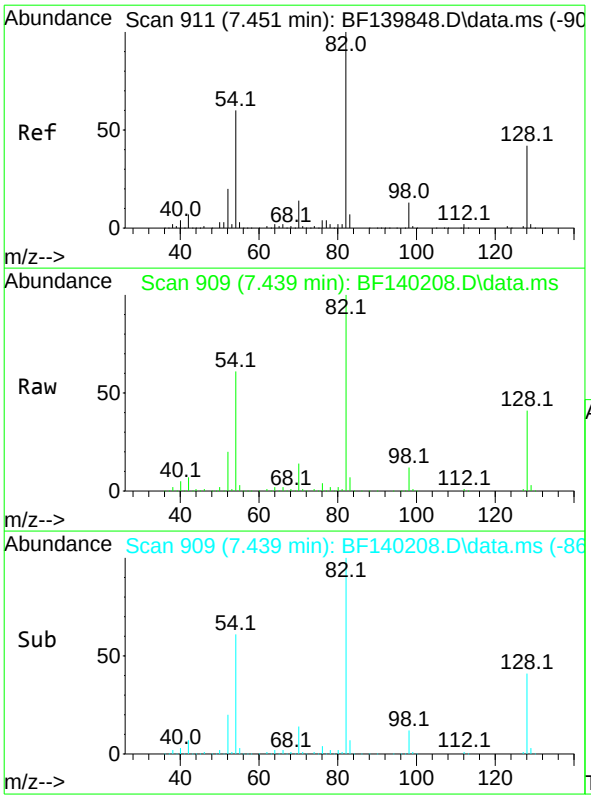


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:136 Resp: 422510

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	10.7	8.4	12.6
68	6.1	5.1	7.7



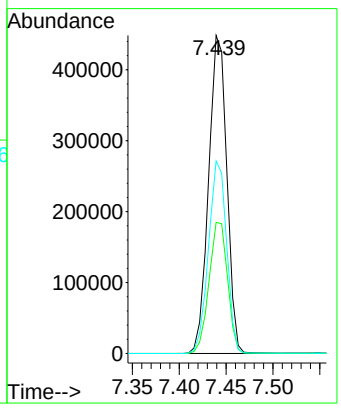


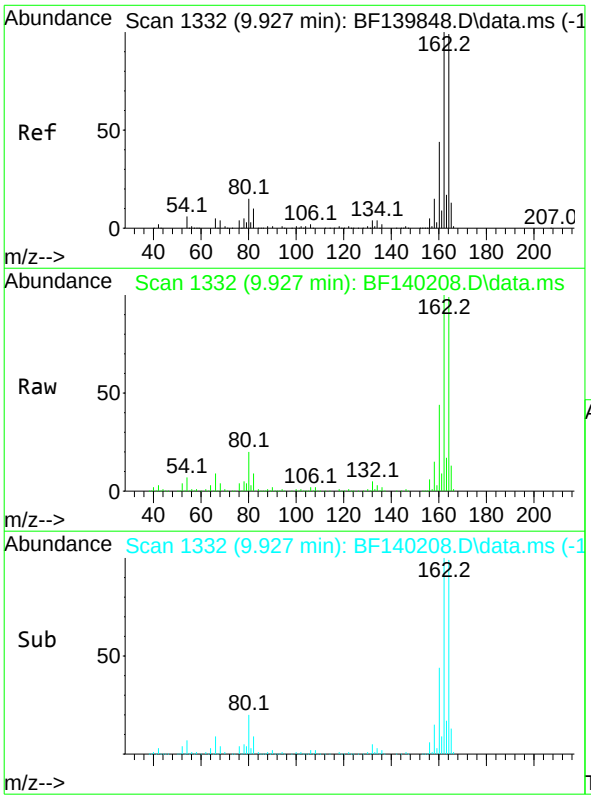
#23
Nitrobenzene-d5
Concen: 79.651 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 82 Resp: 607199

Ion	Ratio	Lower	Upper
82	100		
128	41.2	33.4	50.0
54	60.5	47.8	71.8

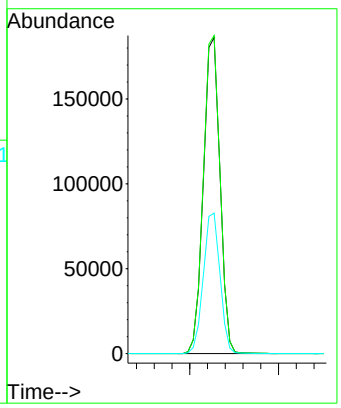


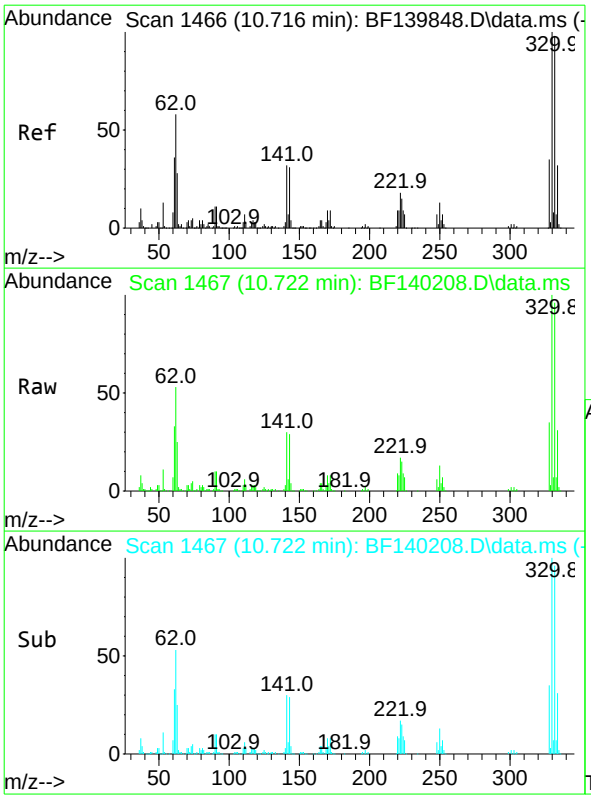


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1332
Delta R.T. 0.000 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:164 Resp: 242556

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.0	121.4
160	44.4	35.4	53.0



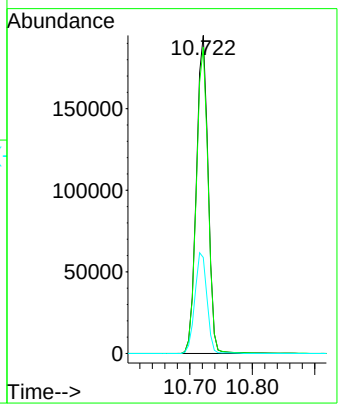


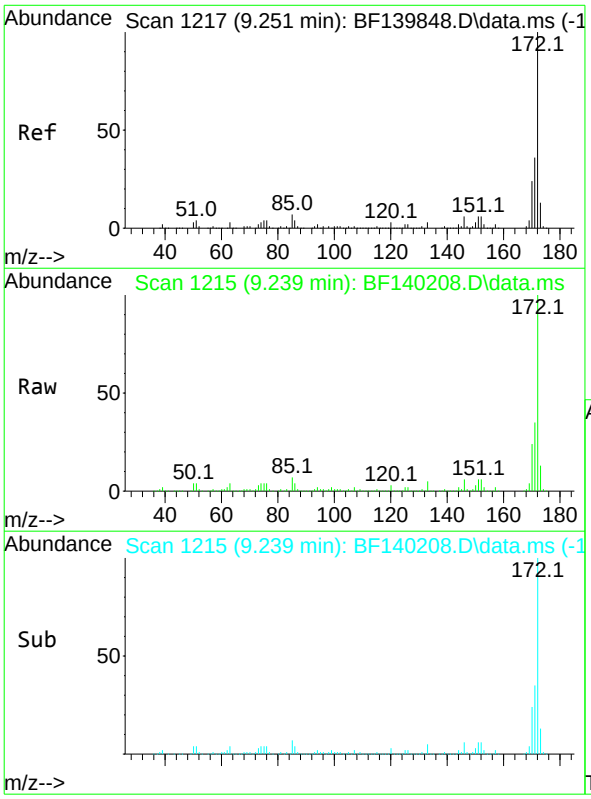
#42
2,4,6-Tribromophenol
Concen: 111.939 ng
RT: 10.722 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:330 Resp: 253967

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.1	117.1
141	32.7	26.6	39.8

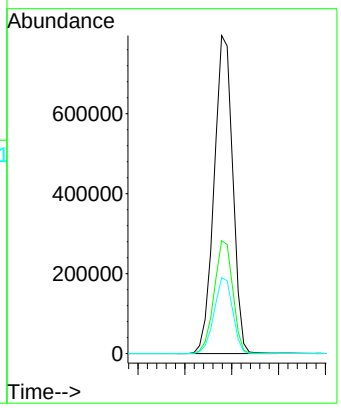


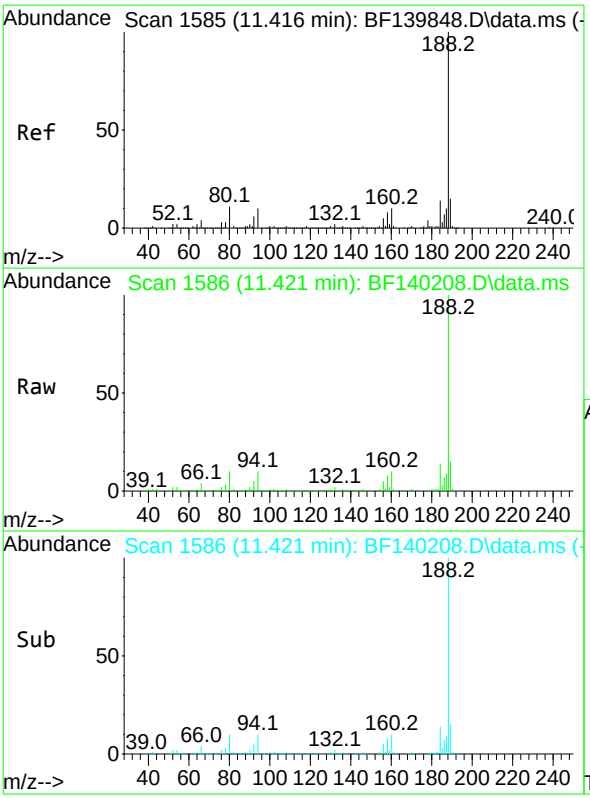


#45
2-Fluorobiphenyl
Concen: 75.041 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:172 Resp: 1101325

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.8	19.1	28.7



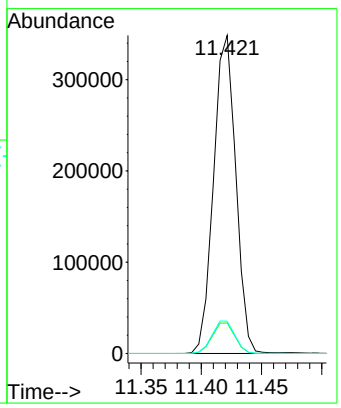


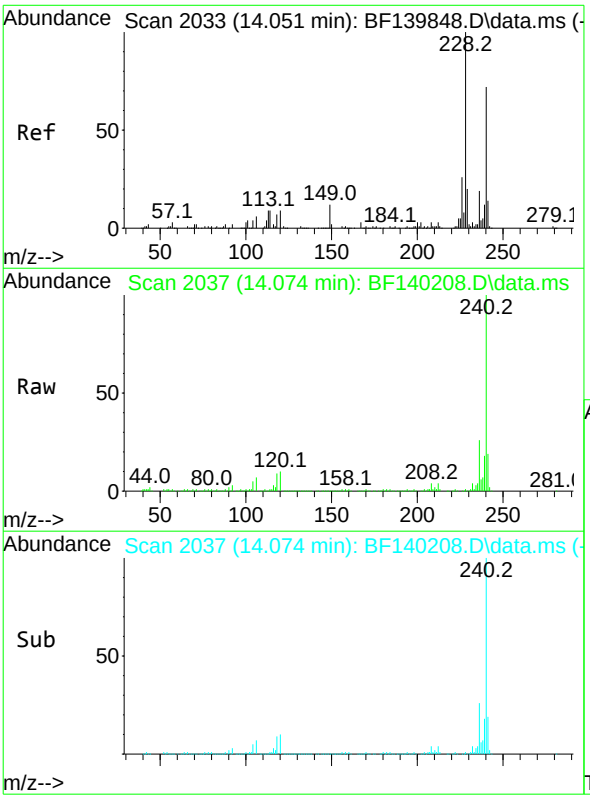
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 15
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:188 Resp: 447541

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.2	9.0	13.4

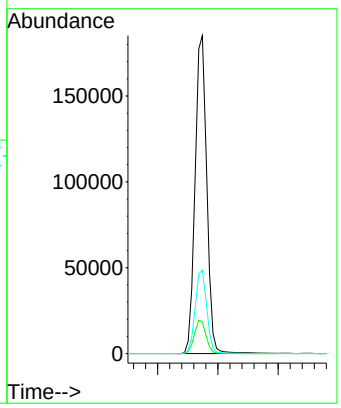


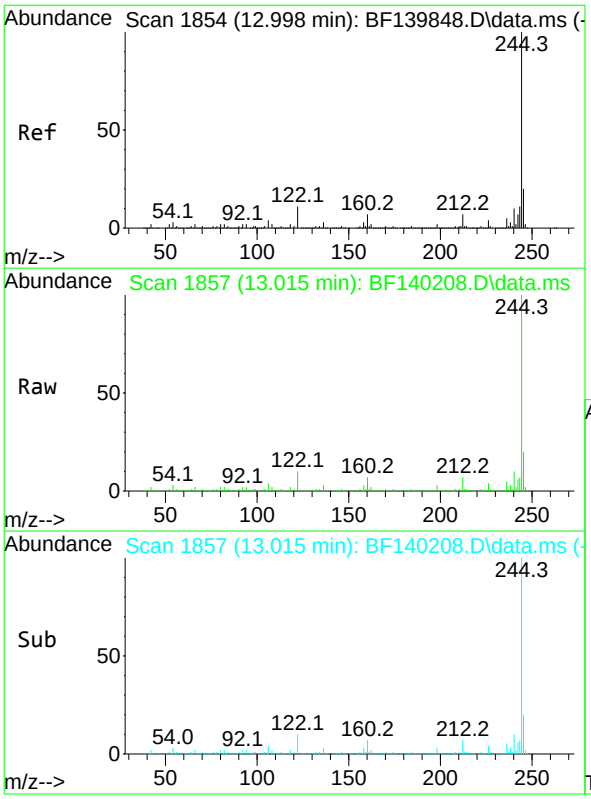


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2037
Delta R.T. 0.024 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:240 Resp: 249474

Ion	Ratio	Lower	Upper
240	100		
120	9.9	9.4	14.2
236	26.2	20.9	31.3



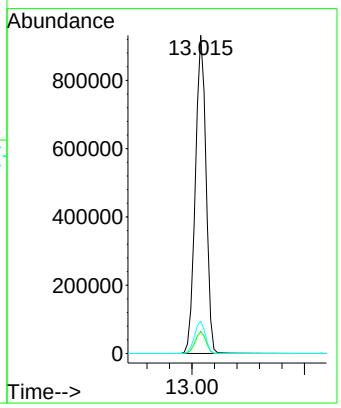


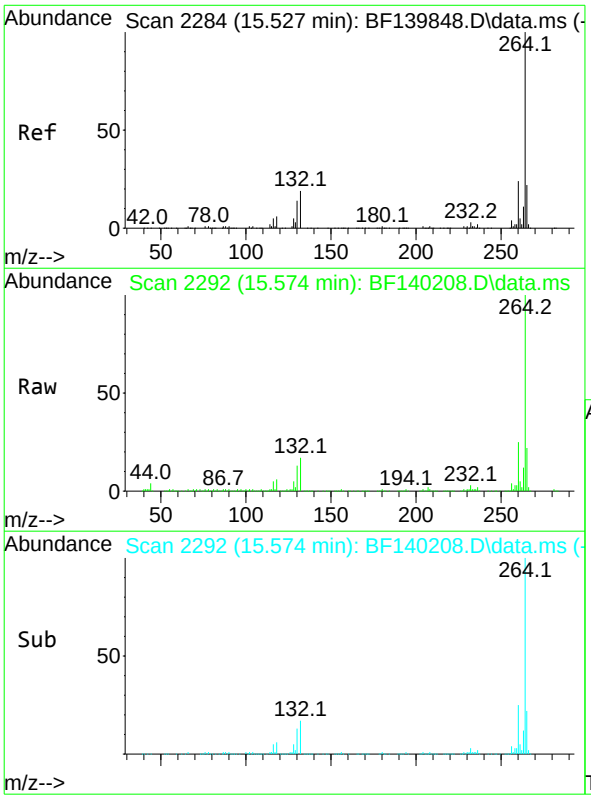
#79
Terphenyl-d14
Concen: 79.974 ng
RT: 13.015 min Scan# 18
Delta R.T. 0.018 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:244 Resp: 1224403

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.1	8.6	13.0

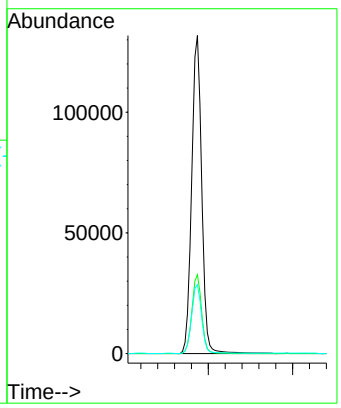




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.047 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:264 Resp: 218114

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.4	29.2
265	21.7	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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024

Calibration Time(s): 11:44 16:01

LAB FILE ID: RRF2.5 = BE101389.D RRF005 = BE101390.D RRF010 = BE101391.D
RRF020 = BE101392.D RRF040 = BE101393.D RRF050 = BE101394.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.141	3.0
Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.764	13.7
Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.582	6.1
Phenol		1.488	1.456	1.766	1.826	1.797	1.717	10.2
bis(2-Chloroethyl)ether		1.513	1.401	1.245	1.477	1.322	1.408	6.9
2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.369	2.9
2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.162	7.0
2,2-oxybis(1-Chloropropane)		1.840	1.857	1.816	1.794	1.711	1.772	4.3
Acetophenone		0.427	0.447	0.467	0.481	0.449	0.454	3.8
3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.604	8.5
n-Nitroso-di-n-propylamine	0.807	0.900	1.060	1.081	1.150	1.115	1.050	12.3
Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.318	4.8
Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.492	1.3
Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.339	4.3
Isophorone		0.533	0.601	0.624	0.665	0.639	0.621	7.1
2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.164	13.4
2,4-Dimethylphenol		0.196	0.194	0.207	0.215	0.206	0.206	4.2
bis(2-Chloroethoxy)methane		0.351	0.378	0.388	0.392	0.374	0.377	3.7
2,4-Dichlorophenol		0.257	0.268	0.285	0.297	0.287	0.285	6.0
Naphthalene		1.092	1.040	1.039	1.045	0.982	1.019	5.0
4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.354	8.9
Hexachlorobutadiene		0.193	0.185	0.187	0.187	0.179	0.184	3.3
Caprolactam		0.077	0.093	0.109	0.119	0.118	0.109	16.5
4-Chloro-3-methylphenol		0.277	0.314	0.321	0.341	0.330	0.325	7.5
2-Methylnaphthalene		0.753	0.752	0.736	0.756	0.711	0.734	3.1
Hexachlorocyclopentadiene		0.153	0.150	0.179	0.177	0.173	0.166	6.9
2,4,6-Trichlorophenol		0.310	0.325	0.352	0.369	0.353	0.346	6.0
2-Fluorobiphenyl		1.359	1.275	1.283	1.226	1.114	1.181	12.4
2,4,5-Trichlorophenol		0.356	0.372	0.401	0.415	0.402	0.396	5.9
1,1-Biphenyl		1.477	1.399	1.431	1.408	1.326	1.370	6.2
2-Chloronaphthalene		1.159	1.091	1.112	1.098	1.054	1.083	4.6
2-Nitroaniline		0.214	0.243	0.295	0.318	0.318	0.291	15.4
Dimethylphthalate		1.446	1.469	1.459	1.449	1.378	1.412	4.4
Acenaphthylene		1.613	1.605	1.656	1.677	1.586	1.601	4.1

All other compounds must meet a minimum RRF of 0.010.

Raw Data

Alliance TECHNICAL GROUP

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024

Calibration Time(s): 11:44 16:01

LAB FILE ID: RRF2.5 = BE101389.D RRF005 = BE101390.D RRF010 = BE101391.D
RRF020 = BE101392.D RRF040 = BE101393.D RRF050 = BE101394.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.284	0.309	0.331	0.345	0.333	0.326	6.8
3-Nitroaniline		0.266	0.296	0.342	0.357	0.347	0.324	10.2
Acenaphthene		1.120	1.080	1.073	1.075	1.016	1.045	5.8
2,4-Dinitrophenol			0.125	0.177	0.208	0.219	0.198	20.8
4-Nitrophenol			0.219	0.291	0.311	0.318	0.297	13.3
Dibenzofuran		1.828	1.739	1.721	1.695	1.604	1.666	7.0
2,4-Dinitrotoluene		0.344	0.407	0.454	0.481	0.480	0.449	12.2
Diethylphthalate		1.499	1.532	1.560	1.535	1.456	1.477	5.5
4-Chlorophenyl-phenylether		0.737	0.713	0.705	0.707	0.676	0.692	5.0
Fluorene		1.490	1.450	1.446	1.453	1.354	1.394	6.7
4-Nitroaniline		0.267	0.316	0.374	0.391	0.393	0.361	13.8
4,6-Dinitro-2-methylphenol			0.086	0.108	0.123	0.125	0.118	15.2
n-Nitrosodiphenylamine		0.542	0.548	0.545	0.553	0.516	0.530	4.3
2,4,6-Tribromophenol		0.329	0.341	0.358	0.366	0.355	0.351	3.6
4-Bromophenyl-phenylether		0.211	0.207	0.209	0.215	0.208	0.210	1.5
Hexachlorobenzene		0.283	0.272	0.274	0.283	0.271	0.276	2.0
Atrazine		0.182	0.179	0.160	0.184	0.109	0.163	19.4
Pentachlorophenol		0.116	0.137	0.159	0.173	0.172	0.159	14.9
Phenanthrene		1.068	1.023	1.012	0.991	0.912	0.958	9.6
Anthracene		1.002	0.972	0.997	0.979	0.909	0.935	8.1
Carbazole		1.010	0.987	1.033	0.995	0.939	0.957	7.6
Di-n-butylphthalate		1.018	1.088	1.221	1.136	1.058	1.053	10.7
Fluoranthene		1.320	1.268	1.306	1.199	1.102	1.163	13.3
Pyrene		1.176	1.206	1.184	1.174	1.052	1.100	10.7
Terphenyl-d14		1.036	1.023	0.970	0.841	0.686	0.869	19.3
Butylbenzylphthalate		0.443	0.467	0.515	0.510	0.494	0.482	5.7
3,3-Dichlorobenzidine		0.404	0.438	0.470	0.481	0.450	0.440	7.1
Benzo(a)anthracene		1.277	1.238	1.243	1.174	1.047	1.124	13.2
Chrysene		1.266	1.225	1.201	1.110	1.005	1.087	14.5
Bis(2-ethylhexyl)phthalate		0.550	0.608	0.705	0.698	0.672	0.641	9.1
Di-n-octyl phthalate		0.987	1.057	1.209	1.137	1.053	1.051	9.9
Benzo(b)fluoranthene		1.076	1.113	1.100	1.110	1.023	1.042	8.3
Benzo(k)fluoranthene		1.126	1.042	1.087	1.015	0.897	0.974	13.1
Benzo(a)pyrene		0.935	0.933	0.961	0.966	0.899	0.912	6.4
Indeno(1,2,3-cd)pyrene		1.390	1.352	1.390	1.394	1.315	1.338	4.8

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024

Calibration Time(s): 11:44 16:01

LAB FILE ID: RRF2.5 = BE101389.D RRF005 = BE101390.D RRF010 = BE101391.D
RRF020 = BE101392.D RRF040 = BE101393.D RRF050 = BE101394.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.130	1.125	1.169	1.170	1.089	1.106	6.0
Benzo(g,h,i)perylene		1.162	1.130	1.155	1.179	1.125	1.140	3.0
1,2,4,5-Tetrachlorobenzene		0.522	0.493	0.515	0.512	0.491	0.502	3.0
1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.426	8.8
2,3,4,6-Tetrachlorophenol		0.345	0.355	0.368	0.382	0.367	0.366	3.5

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE1013
96.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.392	0.379	0.426	8.76
3)		Pyridine		1.064	1.123	1.255	1.196	1.252	1.287	1.252	1.204	6.80
4)		n-Nitrosodimet...		0.459	0.440	0.454	0.479	0.473	0.488	0.468	0.466	3.45
5)	S	2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.187	1.155	1.141	3.03
6)		Aniline		1.059	1.262	1.529	1.346	1.301	1.224	0.767	1.213	19.92
7)	S	Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.727	1.643	1.582	6.15
8)		2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.426	1.371	1.369	2.94
9)		Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.595		0.764	13.74
10)	C	Phenol		1.488	1.456	1.766	1.826	1.797	1.914	1.769	1.717	10.16
11)		bis(2-Chloroet...		1.513	1.401	1.245	1.477	1.322	1.408	1.492	1.408	6.93
12)		1,3-Dichlorobe...		1.563	1.523	1.508	1.488	1.424	1.443	1.382	1.476	4.25
13)	C	1,4-Dichlorobe...		1.624	1.534	1.546	1.505	1.447	1.484	1.409	1.507	4.66
14)		1,2-Dichlorobe...		1.553	1.488	1.502	1.490	1.433	1.472	1.388	1.475	3.56
15)		Benzyl Alcohol		0.704	0.797	0.979	1.061	1.013	1.059	0.990	0.943	14.61
16)		2,2'-oxybis(1-...		1.840	1.857	1.816	1.794	1.711	1.746	1.642	1.772	4.33
17)		2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.263	1.215	1.162	6.96
18)		Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.496	0.481	0.492	1.28
19)	P	n-Nitroso-di-n...	0.807	0.900	1.060	1.081	1.150	1.115	1.185	1.102	1.050	12.35
20)		3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.778	1.674	1.604	8.53
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.427	0.447	0.467	0.481	0.449	0.462	0.446	0.454	3.79
23)	S	Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.331	0.316	0.318	4.78
24)		Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.350	0.339	0.339	4.26
25)		Isophorone		0.533	0.601	0.624	0.665	0.639	0.655	0.632	0.621	7.13
26)	C	2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.182	0.181	0.164	13.41
27)		2,4-Dimethylph...		0.196	0.194	0.207	0.215	0.206	0.215	0.211	0.206	4.19
28)		bis(2-Chloroet...		0.351	0.378	0.388	0.392	0.374	0.385	0.370	0.377	3.65
29)	C	2,4-Dichloroph...		0.257	0.268	0.285	0.297	0.287	0.305	0.297	0.285	6.00
30)		1,2,4-Trichlor...		0.325	0.311	0.315	0.314	0.304	0.307	0.299	0.311	2.71
31)		Naphthalene		1.092	1.040	1.039	1.045	0.982	0.999	0.936	1.019	5.00
32)		Benzoic acid			0.091	0.145	0.196	0.203	0.223	0.234	0.182	29.71
33)		4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.365	0.305	0.354	8.87
34)	C	Hexachlorobuta...		0.193	0.185	0.187	0.187	0.179	0.180	0.176	0.184	3.26
35)		Caprolactam		0.077	0.093	0.109	0.119	0.118	0.126	0.124	0.109	16.48
36)	C	4-Chloro-3-met...		0.277	0.314	0.321	0.341	0.330	0.347	0.343	0.325	7.51
37)		2-Methylnaphth...		0.753	0.752	0.736	0.756	0.711	0.736	0.696	0.734	3.12
38)		1-Methylnaphth...		0.750	0.756	0.735	0.751	0.709	0.733	0.696	0.733	3.08

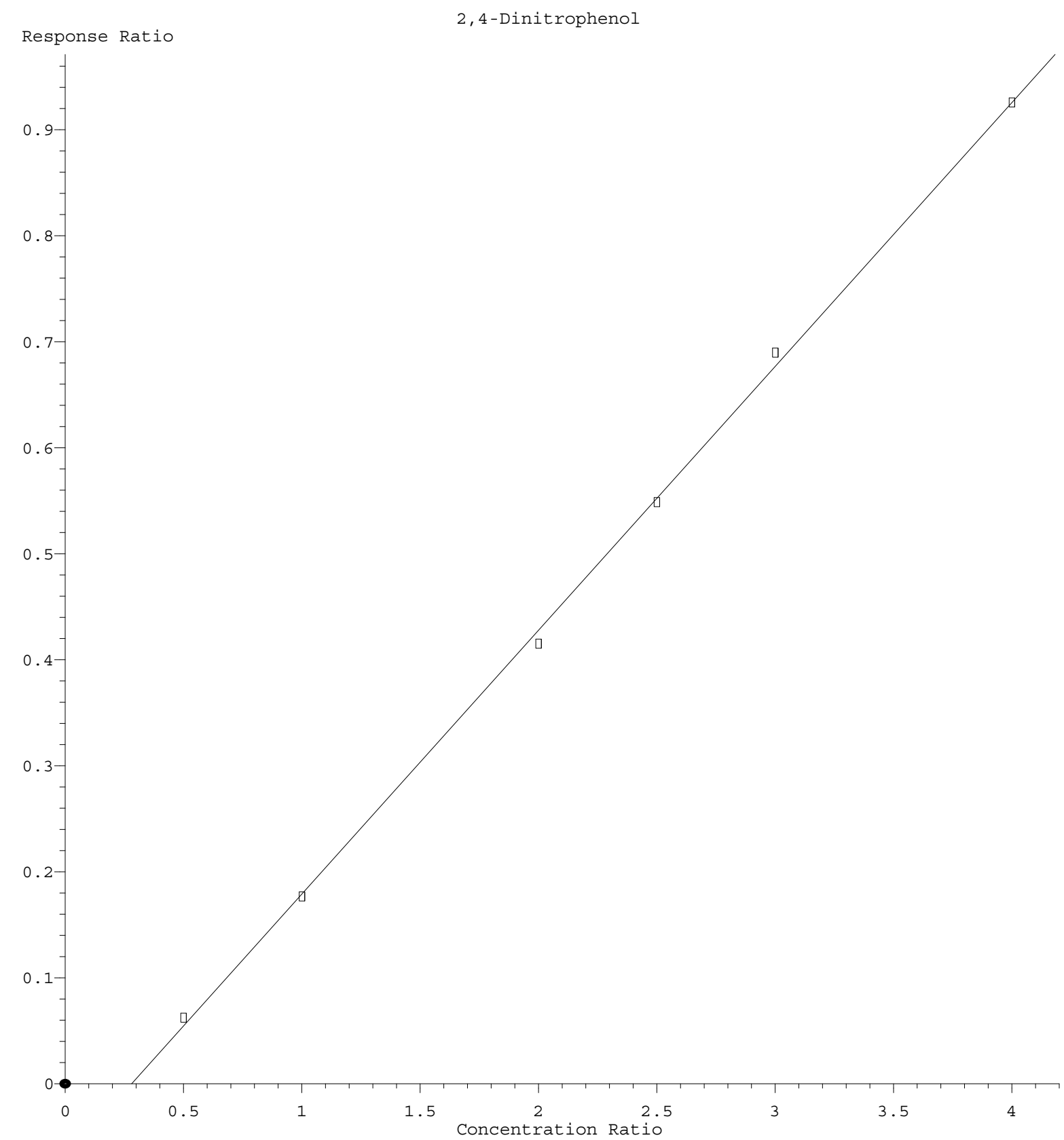
Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.522	0.493	0.515	0.512	0.491	0.499	0.481	0.502	2.96
41)	P	Hexachlorocycl...	0.153	0.150	0.179	0.177	0.173	0.168	0.162	0.166	6.85
42)	S	2,4,6-Tribromo...	0.329	0.341	0.358	0.366	0.355	0.359	0.346	0.351	3.59
43)	C	2,4,6-Trichlor...	0.310	0.325	0.352	0.369	0.353	0.360	0.353	0.346	6.01
44)		2,4,5-Trichlor...	0.356	0.372	0.401	0.415	0.402	0.418	0.411	0.396	5.93
45)	S	2-Fluorobiphenyl	1.359	1.275	1.283	1.226	1.114	1.072	0.938	1.181	12.39
46)		1,1'-Biphenyl	1.477	1.399	1.431	1.408	1.326	1.326	1.224	1.370	6.15
47)		2-Chloronaphth...	1.159	1.091	1.112	1.098	1.054	1.060	1.002	1.083	4.60
48)		2-Nitroaniline	0.214	0.243	0.295	0.318	0.318	0.329	0.322	0.291	15.45
49)		Acenaphthylene	1.613	1.605	1.656	1.677	1.586	1.597	1.473	1.601	4.07
50)		Dimethylphthalate	1.446	1.469	1.459	1.449	1.378	1.383	1.298	1.412	4.38
51)		2,6-Dinitrotol...	0.284	0.309	0.331	0.345	0.333	0.346	0.334	0.326	6.77
52)	C	Acenaphthene	1.120	1.080	1.073	1.075	1.016	1.017	0.936	1.045	5.79
53)		3-Nitroaniline	0.266	0.296	0.342	0.357	0.347	0.345	0.315	0.324	10.25
54)	P	2,4-Dinitrophenol		0.125	0.177	0.208	0.219	0.230	0.231	0.198	20.84
55)		Dibenzofuran	1.828	1.739	1.721	1.695	1.604	1.608	1.468	1.666	7.02
56)	P	4-Nitrophenol		0.219	0.291	0.311	0.318	0.324	0.318	0.297	13.34
57)		2,4-Dinitrotol...	0.344	0.407	0.454	0.481	0.480	0.495	0.481	0.449	12.18
58)		Fluorene	1.490	1.450	1.446	1.453	1.354	1.342	1.222	1.394	6.71
59)		2,3,4,6-Tetrac...	0.345	0.355	0.368	0.382	0.367	0.378	0.369	0.366	3.48
60)		Diethylphthalate	1.499	1.532	1.560	1.535	1.456	1.427	1.327	1.477	5.47
61)		4-Chlorophenyl...	0.737	0.713	0.705	0.707	0.676	0.673	0.631	0.692	5.05
62)		4-Nitroaniline	0.267	0.316	0.374	0.391	0.393	0.394	0.389	0.361	13.79
63)		Azobenzene	1.280	1.309	1.331	1.319	1.248	1.245	1.154	1.269	4.80
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.086	0.108	0.123	0.125	0.131	0.133	0.118	15.15
66)	c	n-Nitrosodiphe...	0.542	0.548	0.545	0.553	0.516	0.520	0.489	0.530	4.33
67)		4-Bromophenyl-...	0.211	0.207	0.209	0.215	0.208	0.215	0.209	0.210	1.48
68)		Hexachlorobenzene	0.283	0.272	0.274	0.283	0.271	0.278	0.269	0.276	2.01
69)		Atrazine	0.182	0.179	0.160	0.184	0.109			0.163	19.39
70)	C	Pentachlorophenol	0.116	0.137	0.159	0.173	0.172	0.177	0.177	0.159	14.86
71)		Phenanthrene	1.068	1.023	1.012	0.991	0.912	0.896	0.801	0.958	9.62
72)		Anthracene	1.002	0.972	0.997	0.979	0.909	0.893	0.793	0.935	8.08
73)		Carbazole	1.010	0.987	1.033	0.995	0.939	0.914	0.820	0.957	7.62
74)		Di-n-butylphth...	1.018	1.088	1.221	1.136	1.058	0.985	0.867	1.053	10.73
75)	C	Fluoranthene	1.320	1.268	1.306	1.199	1.102	1.043	0.903	1.163	13.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.236	0.285	0.253	0.347	0.228	0.198	0.230	0.254	19.22
78)		Pyrene	1.176	1.206	1.184	1.174	1.052	1.016	0.890	1.100	10.69
79)	S	Terphenyl-d14	1.036	1.023	0.970	0.841	0.686	0.657		0.869	19.31
80)		Butylbenzylpht...	0.443	0.467	0.515	0.510	0.494	0.490	0.455	0.482	5.73
81)		Benzo(a)anthra...	1.277	1.238	1.243	1.174	1.047	1.010	0.879	1.124	13.18
82)		3,3'-Dichlorob...	0.404	0.438	0.470	0.481	0.450	0.444	0.396	0.440	7.11
83)		Chrysene	1.266	1.225	1.201	1.110	1.005	0.962	0.838	1.087	14.51
84)		Bis(2-ethylhex...	0.550	0.608	0.705	0.698	0.672	0.659	0.591	0.641	9.15
85)	c	Di-n-octyl pht...	0.987	1.057	1.209	1.137	1.053	1.032	0.883	1.051	9.92

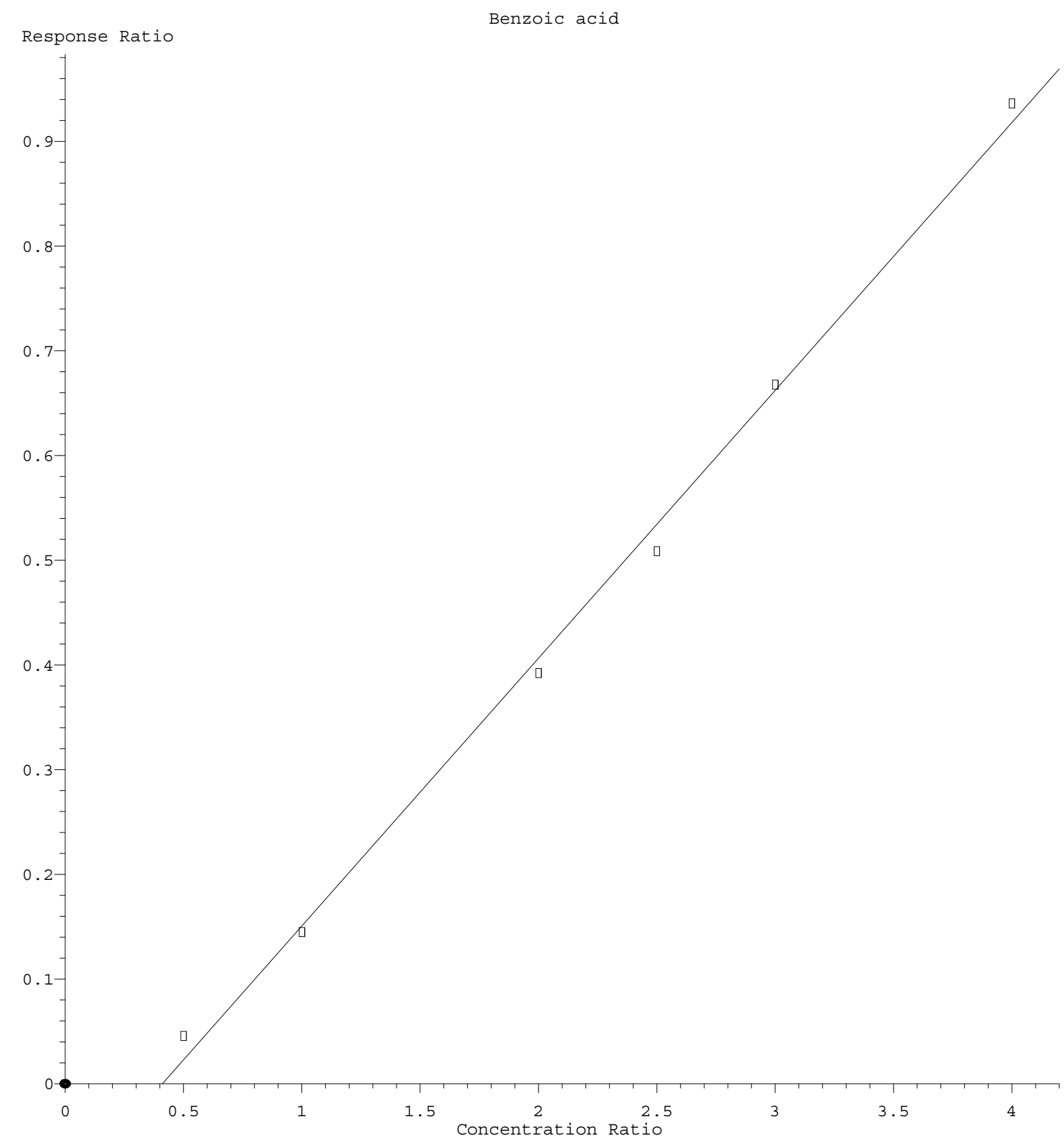
Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.390	1.352	1.390	1.394	1.315	1.315	1.214	1.338	4.83
88)		Benzo(b)fluora...	1.076	1.113	1.100	1.110	1.023	1.000	0.873	1.042	8.29
89)		Benzo(k)fluora...	1.126	1.042	1.087	1.015	0.897	0.875	0.774	0.974	13.13
90)	C	Benzo(a)pyrene	0.935	0.933	0.961	0.966	0.899	0.890	0.796	0.912	6.37
91)		Dibenzo(a,h)an...	1.130	1.125	1.169	1.170	1.089	1.083	0.977	1.106	6.00
92)		Benzo(g,h,i)pe...	1.162	1.130	1.155	1.179	1.125	1.152	1.075	1.140	2.98

(#) = Out of Range



Response = 2.491e-001 * Amt - 6.995e-002
Coef of Det (r^2) = 0.999215 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-BE102824.M
Calibration Table Last Updated: Tue Oct 29 01:26:30 2024



Response = 2.558e-001 * Amt - 1.051e-001
Coef of Det (r^2) = 0.996743 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-BE102824.M
Calibration Table Last Updated: Tue Oct 29 01:26:30 2024

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.572	152	112211	20.000	ng	0.00
21) Naphthalene-d8	10.339	136	522612	20.000	ng	0.00
39) Acenaphthene-d10	14.182	164	379442	20.000	ng	0.00
64) Phenanthrene-d10	16.920	188	934130	20.000	ng	0.00
76) Chrysene-d12	21.079	240	1119449	20.000	ng	0.00
86) Perylene-d12	23.371	264	1421910	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...	8.383	70	11323	1.922	ng	99

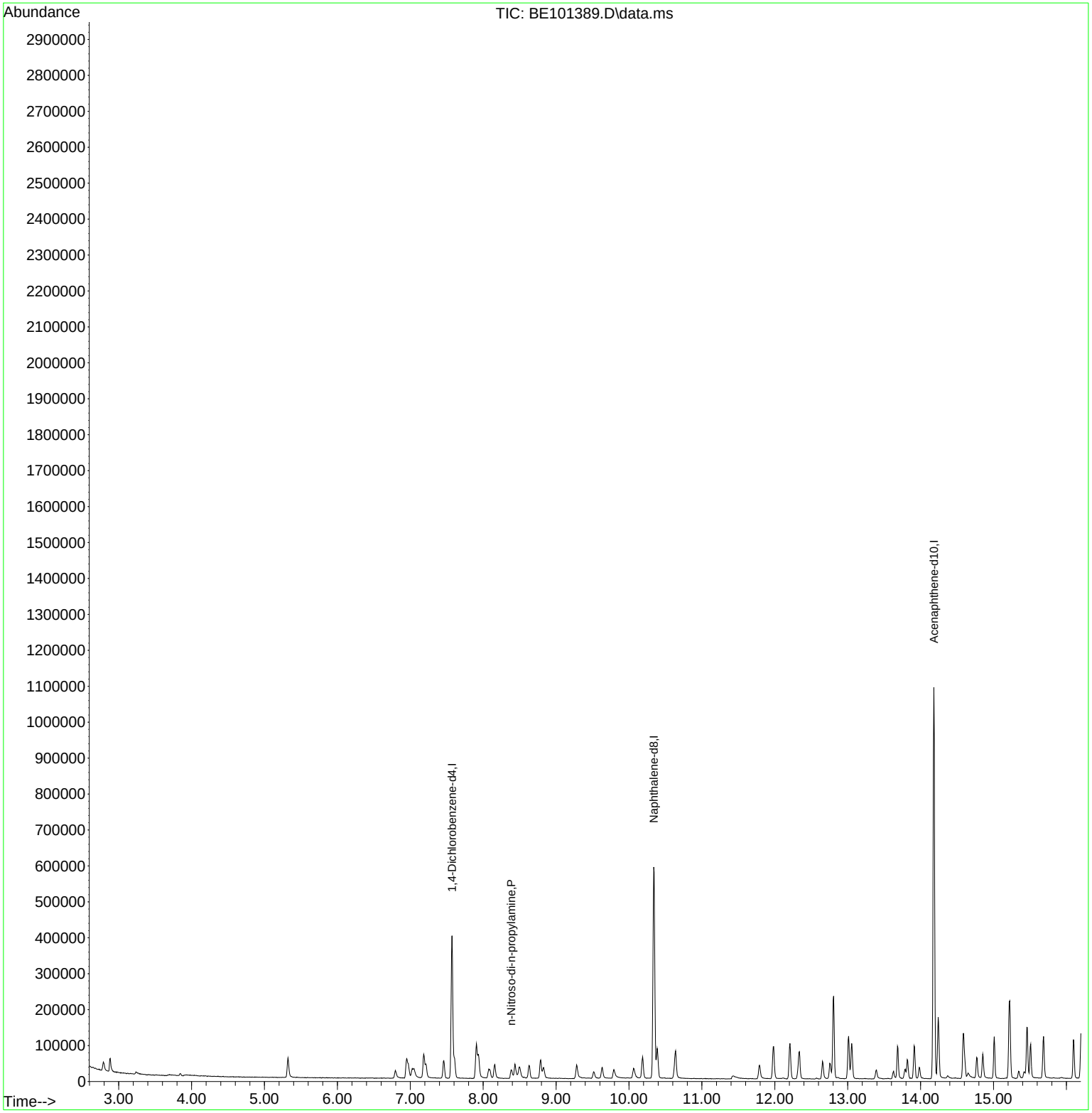
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration

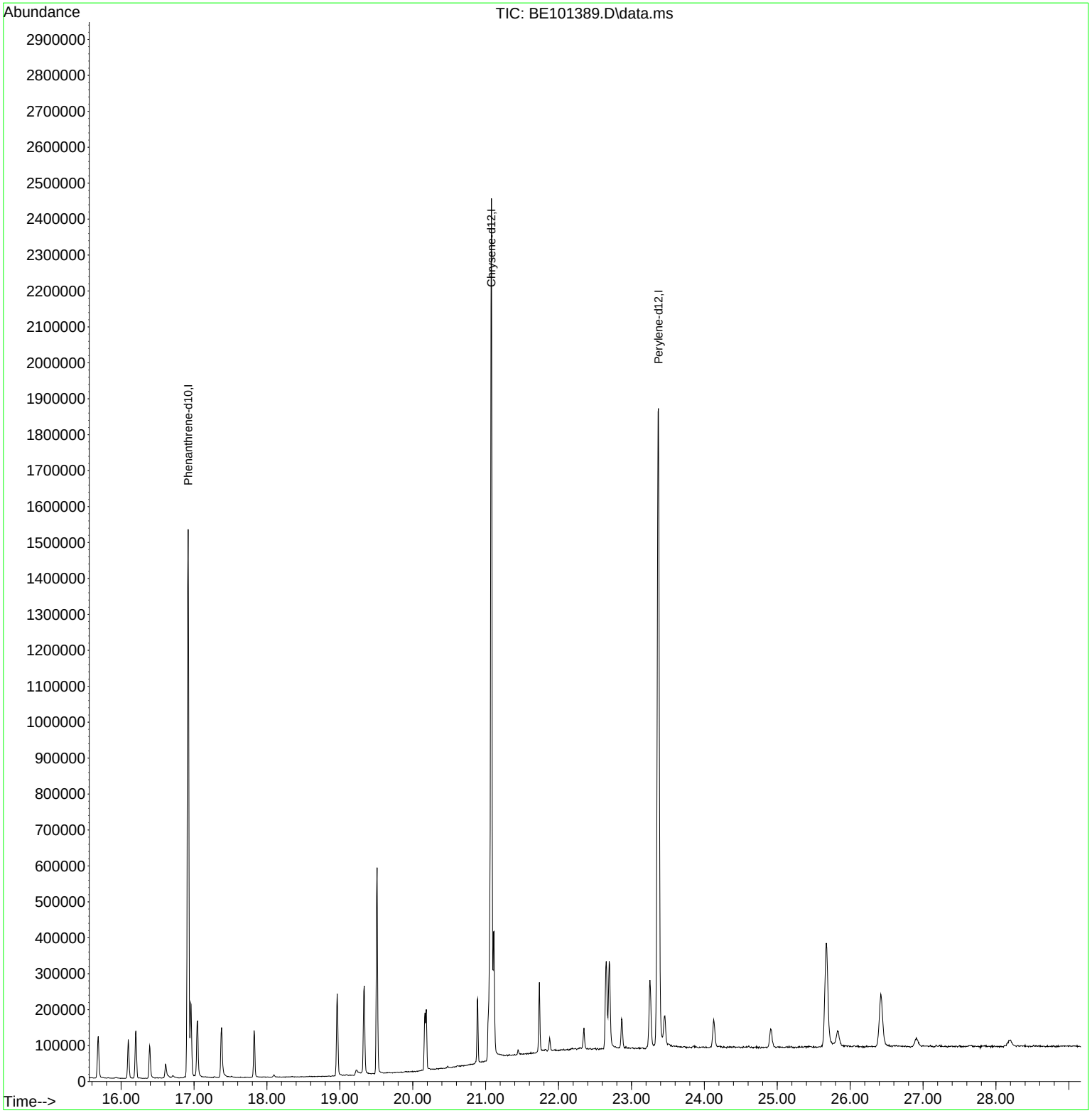


ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.570	152	118304	20.000	ng		0.00
21) Naphthalene-d8	10.337	136	544178	20.000	ng		0.00
39) Acenaphthene-d10	14.180	164	377798	20.000	ng		0.00
64) Phenanthrene-d10	16.918	188	892142	20.000	ng		0.00
76) Chrysene-d12	21.078	240	1100014	20.000	ng		0.00
86) Perylene-d12	23.363	264	1419712	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.320	112	67080	9.938	ng		0.00
7) Phenol-d6	6.947	99	85753	9.162	ng		0.00
23) Nitrobenzene-d5	8.786	82	79382	9.162	ng		0.00
42) 2,4,6-Tribromophenol	15.684	330	62167	9.389	ng		0.00
45) 2-Fluorobiphenyl	12.805	172	256728	11.508	ng		0.00
79) Terphenyl-d14	19.509	244	569888	11.924	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	13926	5.532	ng		92
3) Pyridine	3.810	79	31470m	4.430	ng		
4) n-Nitrosodimethylamine	3.651	42	13573m	4.997	ng		
6) Aniline	7.024	93	31326	4.367	ng		97
8) 2-Chlorophenol	7.217	128	39490	4.878	ng		99
9) Benzaldehyde	6.794	77	23443	5.189	ng		98
10) Phenol	6.971	94	44021	4.335	ng		96
11) bis(2-Chloroethyl)ether	7.041	93	44763m	5.459	ng		
12) 1,3-Dichlorobenzene	7.458	146	46227	5.295	ng		97
13) 1,4-Dichlorobenzene	7.605	146	48018	5.386	ng		97
14) 1,2-Dichlorobenzene	7.934	146	45931	5.264	ng		98
15) Benzyl Alcohol	7.923	79	20828	3.733	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.081	45	54415	5.190	ng		97
17) 2-Methylphenol	8.158	107	30687	4.465	ng		96
18) Hexachloroethane	8.628	117	14712	5.054	ng		94
19) n-Nitroso-di-n-propyla...	8.381	70	26623	4.287	ng		97
20) 3+4-Methylphenols	8.492	107	40353	4.253	ng		97
22) Acetophenone	8.434	105	58143	4.706	ng	#	98
24) Nitrobenzene	8.821	77	42873	4.649	ng		93
25) Isophorone	9.280	82	72478	4.287	ng		96
26) 2-Nitrophenol	9.515	139	17266	3.874	ng		97
27) 2,4-Dimethylphenol	9.626	122	26611	4.745	ng		91
28) bis(2-Chloroethoxy)met...	9.785	93	47763	4.658	ng		97
29) 2,4-Dichlorophenol	10.061	162	35022	4.514	ng		96
30) 1,2,4-Trichlorobenzene	10.185	180	44208	5.230	ng		99
31) Naphthalene	10.390	128	148597	5.359	ng		99
33) 4-Chloroaniline	10.619	127	43714	4.533	ng		98
34) Hexachlorobutadiene	10.637	225	26263	5.249	ng		98
35) Caprolactam	11.401	113	10440m	3.518	ng		
36) 4-Chloro-3-methylphenol	11.783	107	37639	4.261	ng		97
37) 2-Methylnaphthalene	11.977	142	102472	5.129	ng		99
38) 1-Methylnaphthalene	12.206	142	101988	5.115	ng		99
40) 1,2,4,5-Tetrachloroben...	12.335	216	49333	5.202	ng		98
41) Hexachlorocyclopentadiene	12.317	237	14492	4.627	ng		97
43) 2,4,6-Trichlorophenol	12.652	196	29292	4.480	ng		98
44) 2,4,5-Trichlorophenol	12.752	196	33625	4.491	ng		96

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	1,1'-Biphenyl	13.011	154	139541	5.391	ng		99
47)	2-Chloronaphthalene	13.052	162	109485	5.354	ng		98
48)	2-Nitroaniline	13.387	65	20195	3.670	ng		89
49)	Acenaphthylene	13.910	152	152325	5.037	ng		98
50)	Dimethylphthalate	13.680	163	136570	5.121	ng		98
51)	2,6-Dinitrotoluene	13.816	165	26828	4.357	ng	#	85
52)	Acenaphthene	14.245	154	105777	5.357	ng		99
53)	3-Nitroaniline	14.233	138	25147	4.108	ng		95
55)	Dibenzofuran	14.585	168	172675	5.486	ng		97
57)	2,4-Dinitrotoluene	14.603	165	32467	3.830	ng	#	85
58)	Fluorene	15.220	166	140698	5.344	ng		99
59)	2,3,4,6-Tetrachlorophenol	14.850	232	32545	4.705	ng		100
60)	Diethylphthalate	15.008	149	141540	5.074	ng		99
61)	4-Chlorophenyl-phenyle...	15.214	204	69653	5.331	ng		96
62)	4-Nitroaniline	15.414	138	25247	3.706	ng		98
63)	Azobenzene	15.508	77	120875	5.041	ng		98
66)	n-Nitrosodiphenylamine	15.461	169	120923	5.111	ng		99
67)	4-Bromophenyl-phenylether	16.095	248	47013	5.010	ng		98
68)	Hexachlorobenzene	16.201	284	63030	5.124	ng		97
69)	Atrazine	16.389	200	40521	5.587	ng		99
70)	Pentachlorophenol	16.612	266	25934	3.663	ng		95
71)	Phenanthrene	16.959	178	238149	5.575	ng		96
72)	Anthracene	17.041	178	223571	5.360	ng		97
73)	Carbazole	17.376	167	225240	5.278	ng		98
74)	Di-n-butylphthalate	17.823	149	227063	4.833	ng		97
75)	Fluoranthene	18.963	202	294423	5.675	ng		96
77)	Benzidine	19.221	184	64981	4.654	ng		97
78)	Pyrene	19.333	202	323492	5.348	ng		95
80)	Butylbenzylphthalate	20.179	149	121771	4.592	ng		97
81)	Benzo(a)anthracene	21.054	228	351110	5.679	ng		95
82)	3,3'-Dichlorobenzidine	21.037	252	111192	4.591	ng		99
83)	Chrysene	21.113	228	348272	5.826	ng		93
84)	Bis(2-ethylhexyl)phtha...	20.884	149	151249	4.293	ng	#	96
85)	Di-n-octyl phthalate	21.736	149	271400	4.694	ng		99
87)	Indeno(1,2,3-cd)pyrene	25.666	276	493253	5.191	ng		99
88)	Benzo(b)fluoranthene	22.652	252	381899	5.162	ng		97
89)	Benzo(k)fluoranthene	22.693	252	399794	5.782	ng		95
90)	Benzo(a)pyrene	23.252	252	331871	5.129	ng		99
91)	Dibenzo(a,h)anthracene	25.666	278	400920	5.107	ng		98
92)	Benzo(g,h,i)perylene	26.419	276	412340	5.097	ng		99

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

ICAL Form

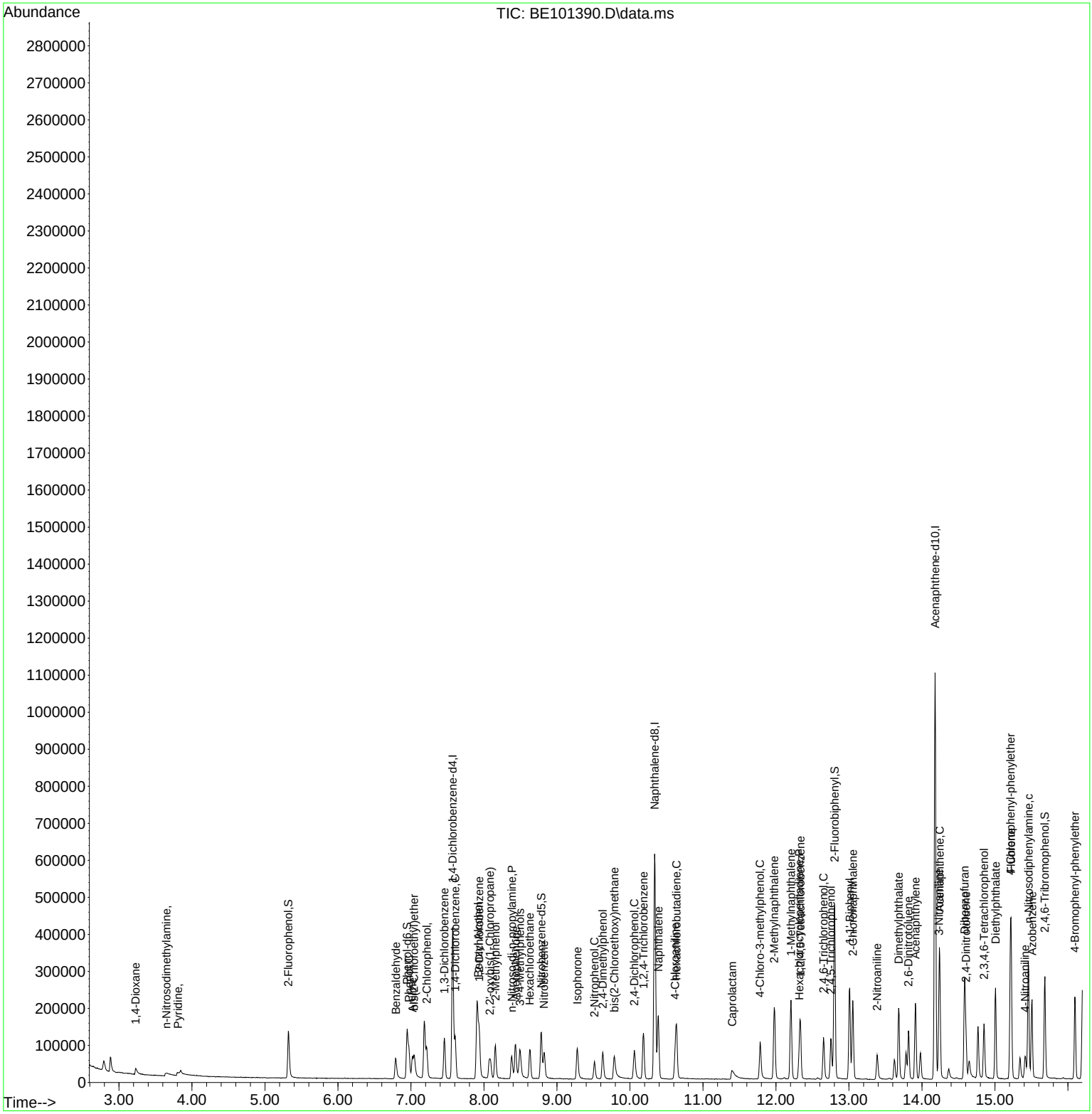
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

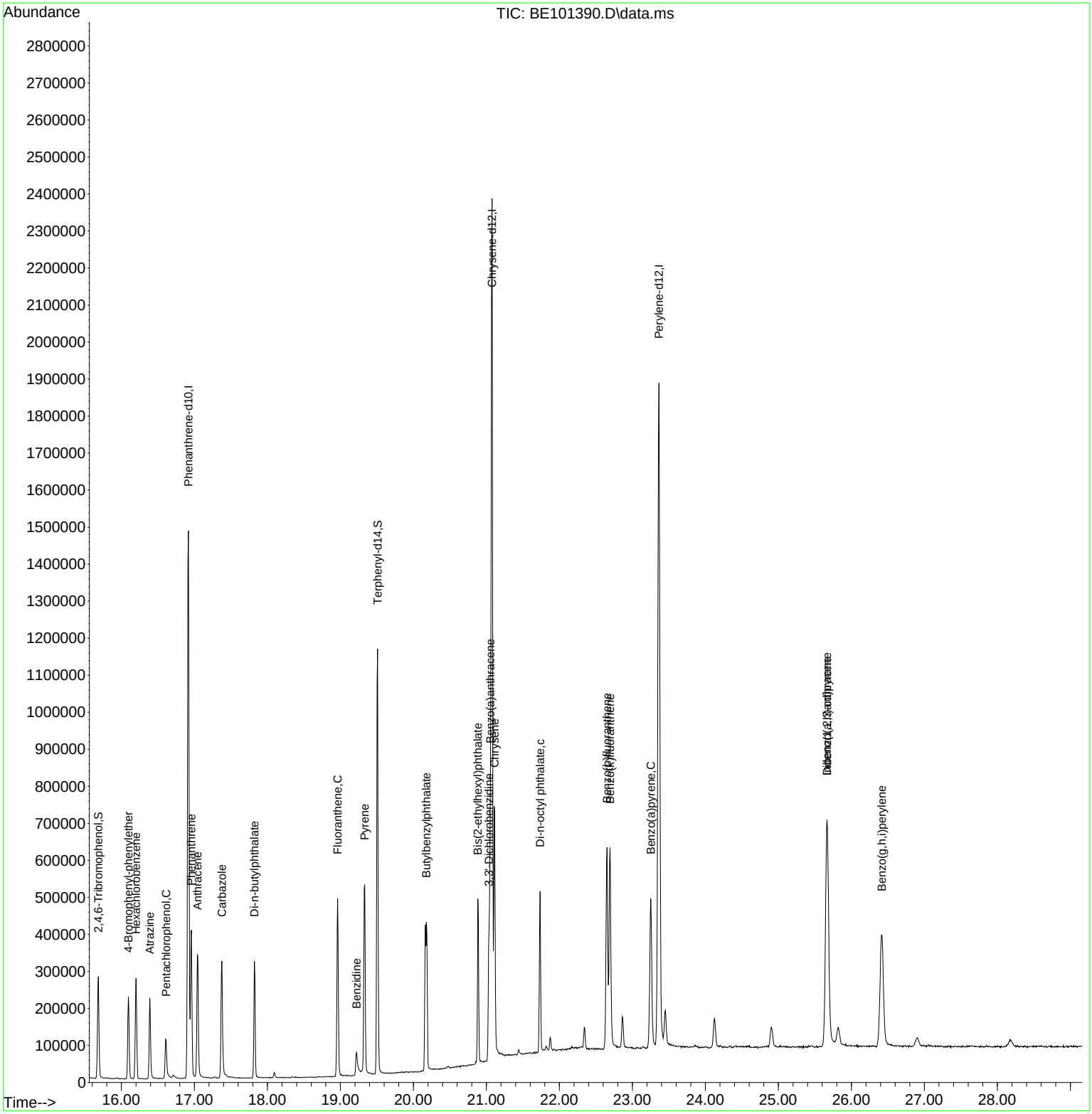
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.570	152	123277	20.000	ng		0.00
21) Naphthalene-d8	10.337	136	600604	20.000	ng		0.00
39) Acenaphthene-d10	14.180	164	445637	20.000	ng		0.00
64) Phenanthrene-d10	16.918	188	1029949	20.000	ng		0.00
76) Chrysene-d12	21.077	240	1164738	20.000	ng		0.00
86) Perylene-d12	23.363	264	1469277	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.319	112	132247	18.802	ng		0.00
7) Phenol-d6	6.947	99	181772	18.638	ng		0.00
23) Nitrobenzene-d5	8.780	82	183858	19.227	ng		0.00
42) 2,4,6-Tribromophenol	15.684	330	151975	19.458	ng		0.00
45) 2-Fluorobiphenyl	12.799	172	568053	21.587	ng		0.00
79) Terphenyl-d14	19.509	244	1191096	23.536	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.222	88	28561	10.887	ng		98
3) Pyridine	3.739	79	69241m	9.353	ng		
4) n-Nitrosodimethylamine	3.610	42	27118m	9.581	ng		
6) Aniline	7.017	93	77784	10.405	ng		99
8) 2-Chlorophenol	7.217	128	80429	9.534	ng		99
9) Benzaldehyde	6.788	77	52324	11.114	ng		99
10) Phenol	6.970	94	89765	8.483	ng		99
11) bis(2-Chloroethyl)ether	7.041	93	86381m	10.109	ng		
12) 1,3-Dichlorobenzene	7.458	146	93874	10.320	ng		99
13) 1,4-Dichlorobenzene	7.605	146	94575	10.181	ng		99
14) 1,2-Dichlorobenzene	7.934	146	91740	10.089	ng		99
15) Benzyl Alcohol	7.916	79	49118	8.449	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.081	45	114453	10.477	ng		99
17) 2-Methylphenol	8.157	107	66460	9.279	ng		99
18) Hexachloroethane	8.627	117	29936	9.868	ng		99
19) n-Nitroso-di-n-propyla...	8.375	70	65315	10.092	ng		99
20) 3+4-Methylphenols	8.492	107	92464	9.353	ng		96
22) Acetophenone	8.427	105	134367	9.853	ng	#	100
24) Nitrobenzene	8.821	77	97575	9.587	ng		96
25) Isophorone	9.274	82	180427	9.669	ng		98
26) 2-Nitrophenol	9.509	139	42252	8.589	ng		98
27) 2,4-Dimethylphenol	9.626	122	58143	9.393	ng		98
28) bis(2-Chloroethoxy)met...	9.779	93	113421	10.023	ng		99
29) 2,4-Dichlorophenol	10.061	162	80383	9.387	ng		99
30) 1,2,4-Trichlorobenzene	10.184	180	93335	10.005	ng		98
31) Naphthalene	10.384	128	312450	10.209	ng		99
32) Benzoic acid	9.820	122	27408m	11.778	ng		
33) 4-Chloroaniline	10.619	127	106690	10.025	ng		98
34) Hexachlorobutadiene	10.637	225	55578	10.065	ng		99
35) Caprolactam	11.383	113	28073m	8.572	ng		
36) 4-Chloro-3-methylphenol	11.782	107	94327	9.674	ng		99
37) 2-Methylnaphthalene	11.976	142	225679	10.235	ng		99
38) 1-Methylnaphthalene	12.205	142	226894	10.310	ng		98
40) 1,2,4,5-Tetrachloroben...	12.335	216	109938	9.827	ng		99
41) Hexachlorocyclopentadiene	12.317	237	33340	9.024	ng		99
43) 2,4,6-Trichlorophenol	12.652	196	72470	9.397	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	82802	9.376	ng	94
46) 1,1'-Biphenyl	13.004	154	311640	10.207	ng	99
47) 2-Chloronaphthalene	13.051	162	243180	10.081	ng	99
48) 2-Nitroaniline	13.386	65	54215	8.352	ng	95
49) Acenaphthylene	13.909	152	357701	10.028	ng	99
50) Dimethylphthalate	13.680	163	327215	10.402	ng	100
51) 2,6-Dinitrotoluene	13.821	165	68910	9.489	ng	99
52) Acenaphthene	14.244	154	240629	10.331	ng	99
53) 3-Nitroaniline	14.227	138	65845	9.118	ng	95
54) 2,4-Dinitrophenol	14.362	184	27748	10.616	ng	95
55) Dibenzofuran	14.585	168	387518	10.438	ng	96
56) 4-Nitrophenol	14.644	139	48868	7.389	ng	98
57) 2,4-Dinitrotoluene	14.603	165	90704	9.072	ng	91
58) Fluorene	15.225	166	323084	10.403	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.849	232	79118	9.696	ng	98
60) Diethylphthalate	15.008	149	341401	10.376	ng	97
61) 4-Chlorophenyl-phenyle...	15.208	204	158792	10.303	ng	99
62) 4-Nitroaniline	15.413	138	70324	8.751	ng	100
63) Azobenzene	15.507	77	291559	10.309	ng	99
65) 4,6-Dinitro-2-methylph...	15.343	198	44302	7.320	ng	97
66) n-Nitrosodiphenylamine	15.460	169	281980	10.324	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	106361	9.817	ng	96
68) Hexachlorobenzene	16.201	284	140149	9.869	ng	99
69) Atrazine	16.389	200	92105	10.999	ng	99
70) Pentachlorophenol	16.606	266	70444	8.618	ng	99
71) Phenanthrene	16.959	178	526649	10.680	ng	97
72) Anthracene	17.041	178	500622	10.397	ng	98
73) Carbazole	17.376	167	508330	10.318	ng	97
74) Di-n-butylphthalate	17.822	149	560519	10.334	ng	97
75) Fluoranthene	18.962	202	652809	10.899	ng	95
77) Benzidine	19.221	184	166063	11.234	ng	100
78) Pyrene	19.332	202	702205	10.963	ng	95
80) Butylbenzylphthalate	20.184	149	272190	9.694	ng	99
81) Benzo(a)anthracene	21.054	228	721011	11.014	ng	95
82) 3,3'-Dichlorobenzidine	21.036	252	255324	9.956	ng	97
83) Chrysene	21.113	228	713680	11.275	ng	93
84) Bis(2-ethylhexyl)phtha...	20.889	149	354141	9.494	ng	96
85) Di-n-octyl phthalate	21.735	149	615621	10.055	ng	100
87) Indeno(1,2,3-cd)pyrene	25.672	276	993383	10.102	ng	99
88) Benzo(b)fluoranthene	22.652	252	817483	10.676	ng	97
89) Benzo(k)fluoranthene	22.693	252	765639	10.700	ng	96
90) Benzo(a)pyrene	23.251	252	685242	10.233	ng	98
91) Dibenzo(a,h)anthracene	25.672	278	826199	10.169	ng	98
92) Benzo(g,h,i)perylene	26.424	276	830134	9.916	ng	99

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

ICAL Form

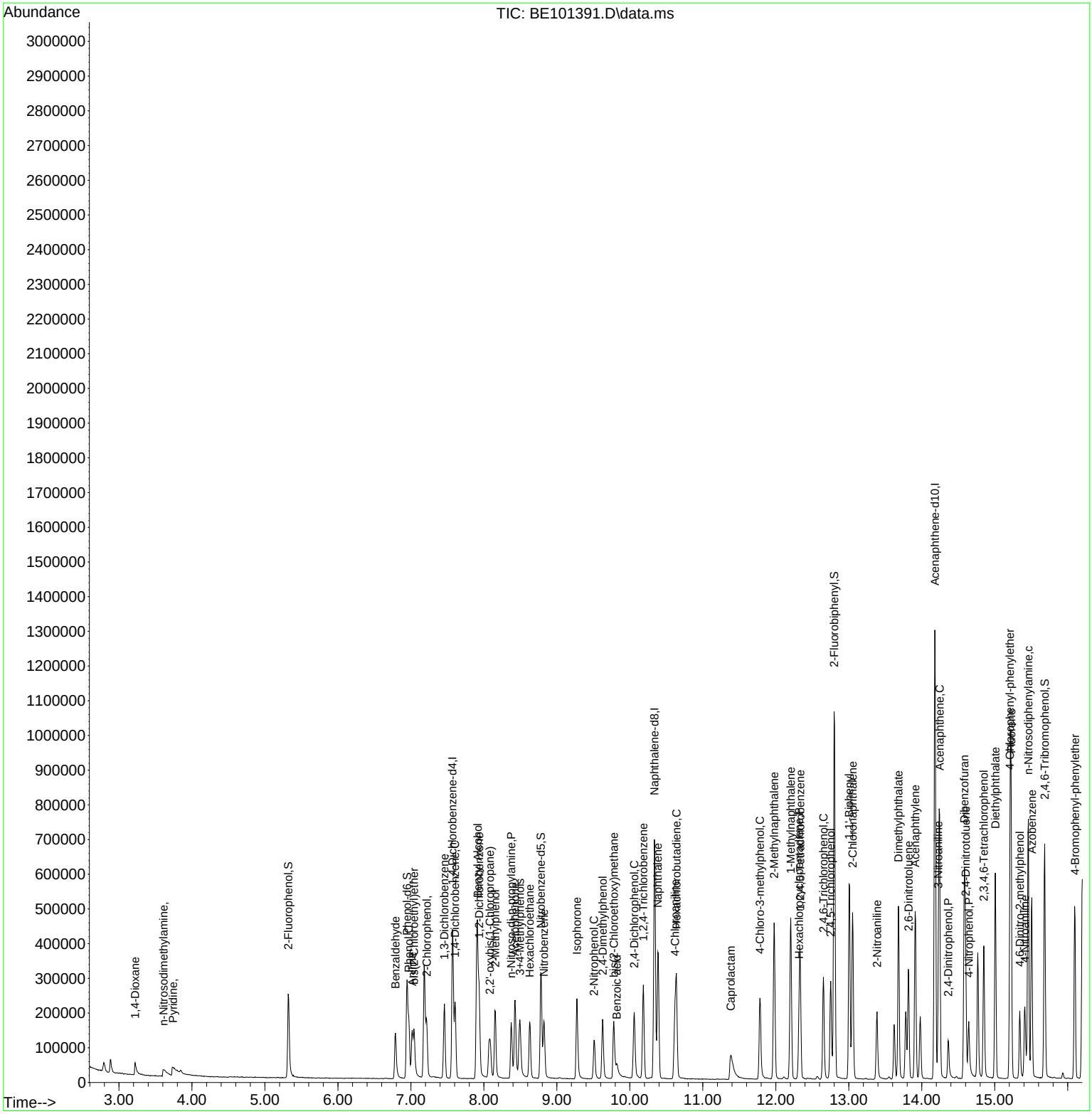
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

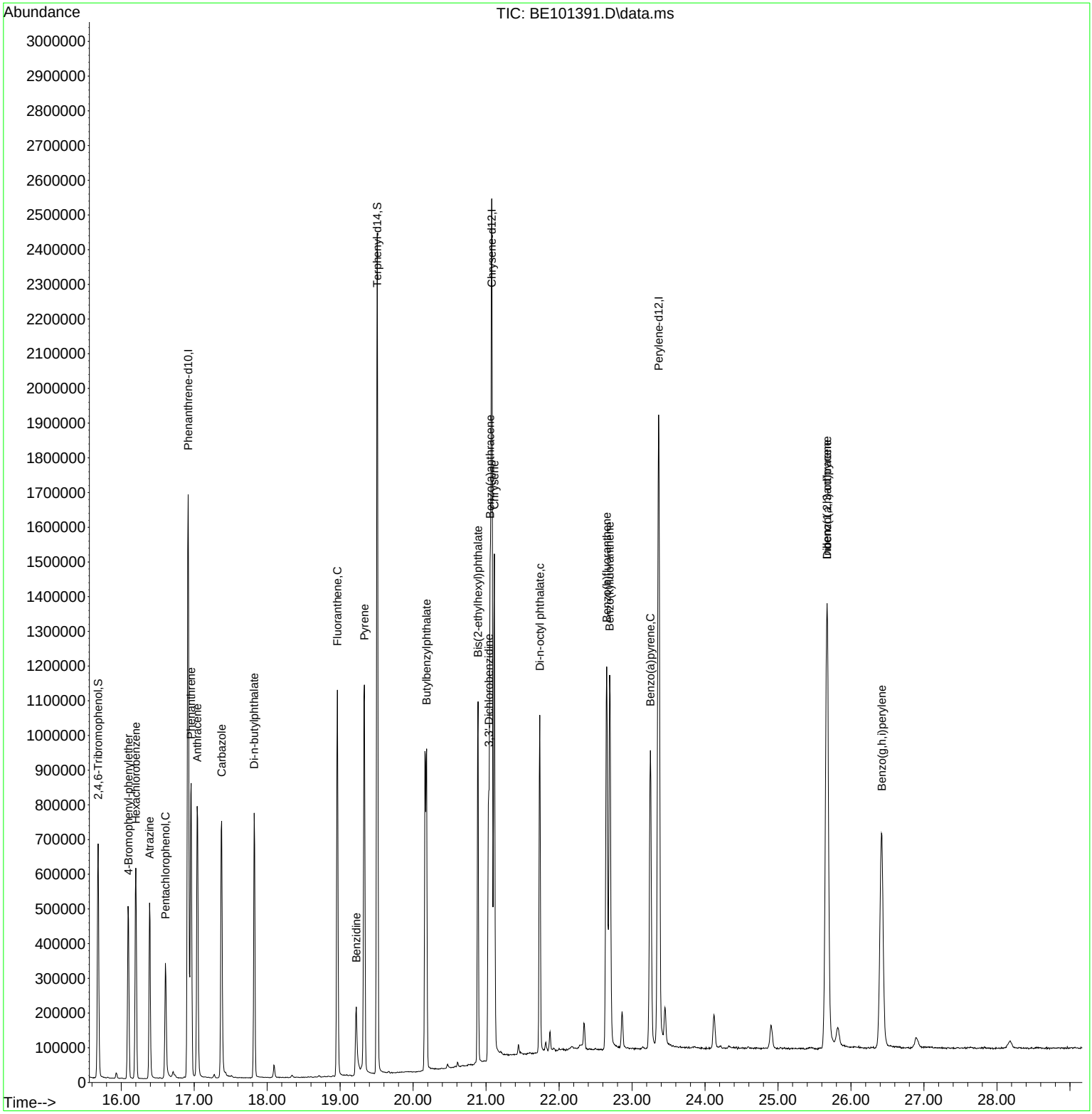
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.570	152	145458	20.000	ng		0.00
21) Naphthalene-d8	10.337	136	690816	20.000	ng		0.00
39) Acenaphthene-d10	14.180	164	479983	20.000	ng		0.00
64) Phenanthrene-d10	16.918	188	1115787	20.000	ng		0.00
76) Chrysene-d12	21.077	240	1323325	20.000	ng		0.00
86) Perylene-d12	23.363	264	1671032	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.319	112	332292	40.039	ng		0.00
7) Phenol-d6	6.947	99	453347	39.395	ng		0.00
23) Nitrobenzene-d5	8.780	82	449694	40.886	ng		0.00
42) 2,4,6-Tribromophenol	15.684	330	343535	40.836	ng		0.00
45) 2-Fluorobiphenyl	12.805	172	1231577	43.454	ng		0.00
79) Terphenyl-d14	19.509	244	2568344	44.669	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.210	88	66062	21.342	ng		99
3) Pyridine	3.668	79	182576m	20.901	ng		
4) n-Nitrosodimethylamine	3.574	42	66090	19.790	ng		95
6) Aniline	7.011	93	222406	25.214	ng		99
8) 2-Chlorophenol	7.211	128	199440	20.036	ng		97
9) Benzaldehyde	6.782	77	125233	22.543	ng		98
10) Phenol	6.970	94	256916	20.576	ng		99
11) bis(2-Chloroethyl)ether	7.041	93	181038m	17.956	ng		
12) 1,3-Dichlorobenzene	7.458	146	219349	20.436	ng		99
13) 1,4-Dichlorobenzene	7.605	146	224941	20.522	ng		99
14) 1,2-Dichlorobenzene	7.934	146	218470	20.363	ng		99
15) Benzyl Alcohol	7.910	79	142372	20.755	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.081	45	264164	20.493	ng		99
17) 2-Methylphenol	8.151	107	166175	19.664	ng		99
18) Hexachloroethane	8.627	117	71637	20.014	ng		99
19) n-Nitroso-di-n-propyla...	8.375	70	157181	20.583	ng		97
20) 3+4-Methylphenols	8.492	107	229815	19.701	ng		99
22) Acetophenone	8.422	105	322339	20.550	ng	#	99
24) Nitrobenzene	8.821	77	241129	20.598	ng		99
25) Isophorone	9.274	82	431209	20.091	ng		99
26) 2-Nitrophenol	9.509	139	111783	19.757	ng		98
27) 2,4-Dimethylphenol	9.626	122	142884	20.069	ng		98
28) bis(2-Chloroethoxy)met...	9.779	93	268211	20.606	ng		99
29) 2,4-Dichlorophenol	10.055	162	196882	19.989	ng		98
30) 1,2,4-Trichlorobenzene	10.184	180	217666	20.286	ng		100
31) Naphthalene	10.384	128	718052	20.397	ng		100
32) Benzoic acid	9.855	122	100073	19.536	ng		98
33) 4-Chloroaniline	10.613	127	257549	21.039	ng		99
34) Hexachlorobutadiene	10.637	225	129221	20.346	ng		98
35) Caprolactam	11.377	113	75252	19.977	ng		99
36) 4-Chloro-3-methylphenol	11.782	107	221443	19.746	ng		99
37) 2-Methylnaphthalene	11.976	142	508710	20.058	ng		99
38) 1-Methylnaphthalene	12.205	142	507973	20.068	ng		100
40) 1,2,4,5-Tetrachloroben...	12.335	216	247246	20.520	ng		99
41) Hexachlorocyclopentadiene	12.317	237	85787	21.558	ng		98
43) 2,4,6-Trichlorophenol	12.652	196	168870	20.330	ng		98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	192619	20.249	ng		98
46) 1,1'-Biphenyl	13.010	154	686936	20.889	ng		99
47) 2-Chloronaphthalene	13.051	162	533907	20.550	ng		99
48) 2-Nitroaniline	13.386	65	141408	20.225	ng		98
49) Acenaphthylene	13.909	152	794820	20.687	ng		99
50) Dimethylphthalate	13.686	163	700286	20.669	ng		98
51) 2,6-Dinitrotoluene	13.821	165	158798	20.301	ng		100
52) Acenaphthene	14.244	154	514942	20.525	ng		99
53) 3-Nitroaniline	14.227	138	164280	21.121	ng		98
54) 2,4-Dinitrophenol	14.362	184	84815	19.805	ng		96
55) Dibenzofuran	14.585	168	826067	20.659	ng		99
56) 4-Nitrophenol	14.644	139	139762	19.622	ng		99
57) 2,4-Dinitrotoluene	14.603	165	217872	20.231	ng		95
58) Fluorene	15.225	166	694099	20.750	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.849	232	176736	20.109	ng		100
60) Diethylphthalate	15.008	149	748812	21.130	ng		98
61) 4-Chlorophenyl-phenyle...	15.214	204	338586	20.398	ng		98
62) 4-Nitroaniline	15.413	138	179670	20.759	ng		99
63) Azobenzene	15.507	77	638899	20.974	ng		99
65) 4,6-Dinitro-2-methylph...	15.343	198	120025	18.306	ng		95
66) n-Nitrosodiphenylamine	15.460	169	608131	20.552	ng		99
67) 4-Bromophenyl-phenylether	16.095	248	233542	19.898	ng		99
68) Hexachlorobenzene	16.201	284	305632	19.866	ng		99
69) Atrazine	16.395	200	178560	19.684	ng		99
70) Pentachlorophenol	16.606	266	177362	20.028	ng		98
71) Phenanthrene	16.959	178	1129442	21.142	ng		98
72) Anthracene	17.047	178	1112275	21.323	ng		97
73) Carbazole	17.376	167	1152191	21.587	ng		97
74) Di-n-butylphthalate	17.822	149	1361839	23.177	ng		98
75) Fluoranthene	18.962	202	1457689	22.465	ng		96
77) Benzidine	19.221	184	334865	19.938	ng		100
78) Pyrene	19.332	202	1566914	21.532	ng		96
80) Butylbenzylphthalate	20.184	149	682078	21.380	ng		99
81) Benzo(a)anthracene	21.054	228	1645151	22.118	ng		97
82) 3,3'-Dichlorobenzidine	21.036	252	621432	21.328	ng		100
83) Chrysene	21.113	228	1589960	22.109	ng		95
84) Bis(2-ethylhexyl)phtha...	20.883	149	933369	22.023	ng	#	97
85) Di-n-octyl phthalate	21.735	149	1600302	23.006	ng		99
87) Indeno(1,2,3-cd)pyrene	25.684	276	2323311	20.775	ng		99
88) Benzo(b)fluoranthene	22.652	252	1838727	21.114	ng		98
89) Benzo(k)fluoranthene	22.699	252	1816446	22.320	ng		97
90) Benzo(a)pyrene	23.251	252	1606453	21.093	ng		99
91) Dibenzo(a,h)anthracene	25.678	278	1953695	21.142	ng		98
92) Benzo(g,h,i)perylene	26.430	276	1930120	20.272	ng		99

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

ICAL Form

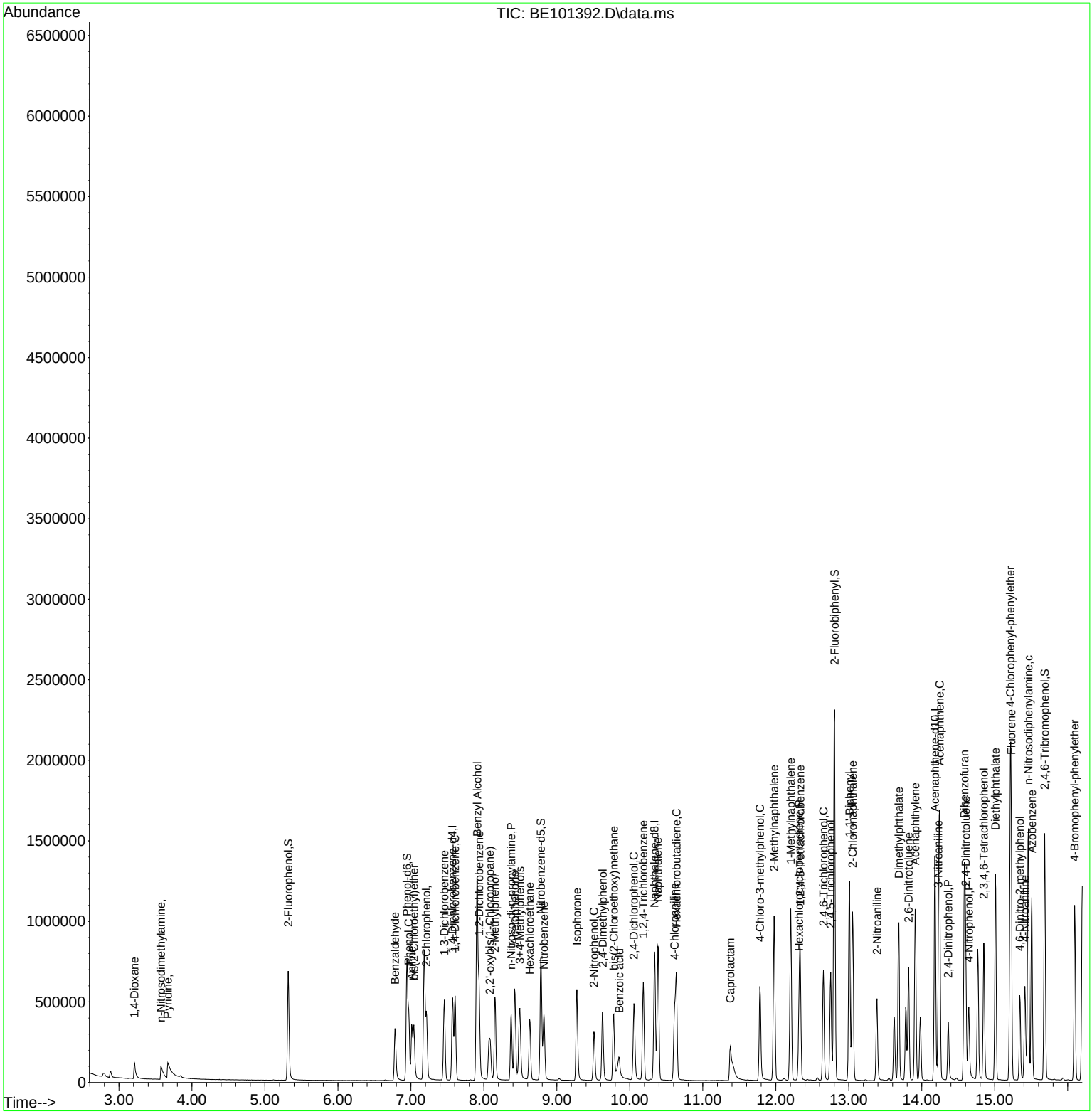
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

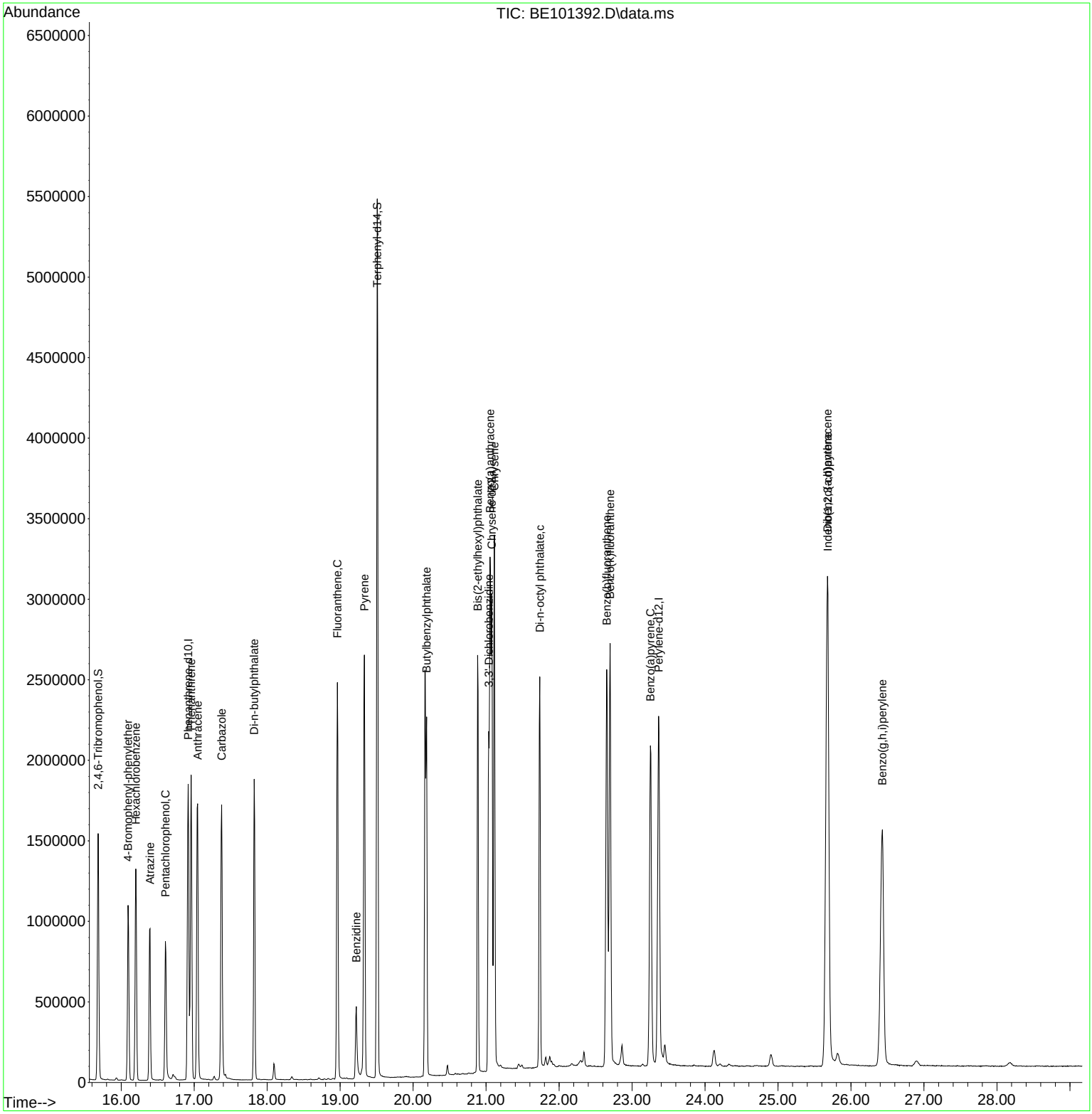
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.570	152	140927	20.000	ng		0.00
21) Naphthalene-d8	10.338	136	679661	20.000	ng		0.00
39) Acenaphthene-d10	14.180	164	489939	20.000	ng		0.00
64) Phenanthrene-d10	16.918	188	1121583	20.000	ng		0.00
76) Chrysene-d12	21.078	240	1213932	20.000	ng		0.00
86) Perylene-d12	23.364	264	1508729	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.320	112	650130	80.855	ng		0.00
7) Phenol-d6	6.948	99	918108	82.347	ng		0.00
23) Nitrobenzene-d5	8.787	82	912254	84.304	ng		0.00
42) 2,4,6-Tribromophenol	15.690	330	716957	83.493	ng		0.00
45) 2-Fluorobiphenyl	12.806	172	2403552	83.082	ng		0.00
79) Terphenyl-d14	19.515	244	4083553	77.422	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.205	88	118661	39.567	ng		100
3) Pyridine	3.640	79	337051m	39.826	ng		
4) n-Nitrosodimethylamine	3.558	42	134976	41.716	ng		100
6) Aniline	7.012	93	379442	44.400	ng		100
8) 2-Chlorophenol	7.218	128	395579	41.018	ng		100
9) Benzaldehyde	6.783	77	227485	42.266	ng		100
10) Phenol	6.971	94	514695	42.547	ng		100
11) bis(2-Chloroethyl)ether	7.042	93	416211m	42.609	ng		
12) 1,3-Dichlorobenzene	7.459	146	419357	40.326	ng		100
13) 1,4-Dichlorobenzene	7.606	146	424205	39.946	ng		100
14) 1,2-Dichlorobenzene	7.935	146	420089	40.414	ng		100
15) Benzyl Alcohol	7.911	79	298943	44.982	ng		100
16) 2,2'-oxybis(1-Chloropr...	8.082	45	505709	40.493	ng		100
17) 2-Methylphenol	8.152	107	342890	41.880	ng		100
18) Hexachloroethane	8.628	117	140004	40.371	ng		100
19) n-Nitroso-di-n-propyla...	8.375	70	324267	43.828	ng		100
20) 3+4-Methylphenols	8.493	107	474897	42.020	ng		100
22) Acetophenone	8.422	105	653526	42.348	ng	#	100
24) Nitrobenzene	8.822	77	482597	41.902	ng		100
25) Isophorone	9.274	82	904319	42.826	ng		100
26) 2-Nitrophenol	9.509	139	243096	43.670	ng		100
27) 2,4-Dimethylphenol	9.627	122	292733	41.791	ng		100
28) bis(2-Chloroethoxy)met...	9.774	93	532628	41.593	ng		100
29) 2,4-Dichlorophenol	10.062	162	404330	41.724	ng		100
30) 1,2,4-Trichlorobenzene	10.185	180	426450	40.396	ng		100
31) Naphthalene	10.391	128	1420283	41.007	ng		100
32) Benzoic acid	9.891	122	266609	38.880	ng		100
33) 4-Chloroaniline	10.614	127	540332	44.864	ng		100
34) Hexachlorobutadiene	10.637	225	254804	40.777	ng		100
35) Caprolactam	11.395	113	161584	43.600	ng		100
36) 4-Chloro-3-methylphenol	11.789	107	463319	41.991	ng		100
37) 2-Methylnaphthalene	11.977	142	1027397	41.174	ng		100
38) 1-Methylnaphthalene	12.206	142	1021245	41.008	ng		100
40) 1,2,4,5-Tetrachloroben...	12.335	216	501796	40.799	ng		100
41) Hexachlorocyclopentadiene	12.318	237	173373	42.682	ng		100
43) 2,4,6-Trichlorophenol	12.653	196	361676	42.656	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.753	196	406209	41.835	ng	100
46) 1,1'-Biphenyl	13.011	154	1379396	41.094	ng	100
47) 2-Chloronaphthalene	13.058	162	1076232	40.583	ng	100
48) 2-Nitroaniline	13.387	65	311763	43.683	ng	100
49) Acenaphthylene	13.916	152	1642781	41.889	ng	100
50) Dimethylphthalate	13.687	163	1420279	41.068	ng	100
51) 2,6-Dinitrotoluene	13.822	165	338334	42.374	ng	100
52) Acenaphthene	14.245	154	1053741	41.148	ng	100
53) 3-Nitroaniline	14.233	138	349479	44.018	ng	100
54) 2,4-Dinitrophenol	14.368	184	203414	38.955	ng	100
55) Dibenzofuran	14.586	168	1660539	40.683	ng	100
56) 4-Nitrophenol	14.650	139	305078	41.960	ng	100
57) 2,4-Dinitrotoluene	14.609	165	471064	42.854	ng	100
58) Fluorene	15.226	166	1424112	41.708	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.856	232	373847	41.672	ng	100
60) Diethylphthalate	15.015	149	1504066	41.579	ng	100
61) 4-Chlorophenyl-phenyle...	15.214	204	692996	40.900	ng	100
62) 4-Nitroaniline	15.420	138	383097	43.363	ng	100
63) Azobenzene	15.508	77	1292104	41.556	ng	100
65) 4,6-Dinitro-2-methylph...	15.350	198	276529	41.958	ng	100
66) n-Nitrosodiphenylamine	15.461	169	1239699	41.680	ng	100
67) 4-Bromophenyl-phenylether	16.096	248	481170	40.783	ng	100
68) Hexachlorobenzene	16.202	284	634376	41.021	ng	100
69) Atrazine	16.395	200	412016	45.184	ng	100
70) Pentachlorophenol	16.613	266	387503	43.532	ng	100
71) Phenanthrene	16.959	178	2223827	41.412	ng	100
72) Anthracene	17.048	178	2195533	41.871	ng	100
73) Carbazole	17.377	167	2231136	41.586	ng	100
74) Di-n-butylphthalate	17.823	149	2547547	43.131	ng	100
75) Fluoranthene	18.963	202	2689073	41.229	ng	100
77) Benzidine	19.222	184	841414	54.613	ng	100
78) Pyrene	19.333	202	2851171	42.710	ng	100
80) Butylbenzylphthalate	20.185	149	1239396	42.350	ng	100
81) Benzo(a)anthracene	21.061	228	2850546	41.778	ng	100
82) 3,3'-Dichlorobenzidine	21.037	252	1167475	43.680	ng	100
83) Chrysene	21.113	228	2694174	40.839	ng	100
84) Bis(2-ethylhexyl)phtha...	20.890	149	1695435	43.609	ng	100
85) Di-n-octyl phthalate	21.736	149	2761437	43.276	ng	100
87) Indeno(1,2,3-cd)pyrene	25.696	276	4204842	41.644	ng	100
88) Benzo(b)fluoranthene	22.659	252	3350839	42.618	ng	100
89) Benzo(k)fluoranthene	22.706	252	3062296	41.677	ng	100
90) Benzo(a)pyrene	23.258	252	2913742	42.374	ng	100
91) Dibenzo(a,h)anthracene	25.690	278	3529480	42.304	ng	100
92) Benzo(g,h,i)perylene	26.442	276	3556297	41.369	ng	100

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

ICAL Form

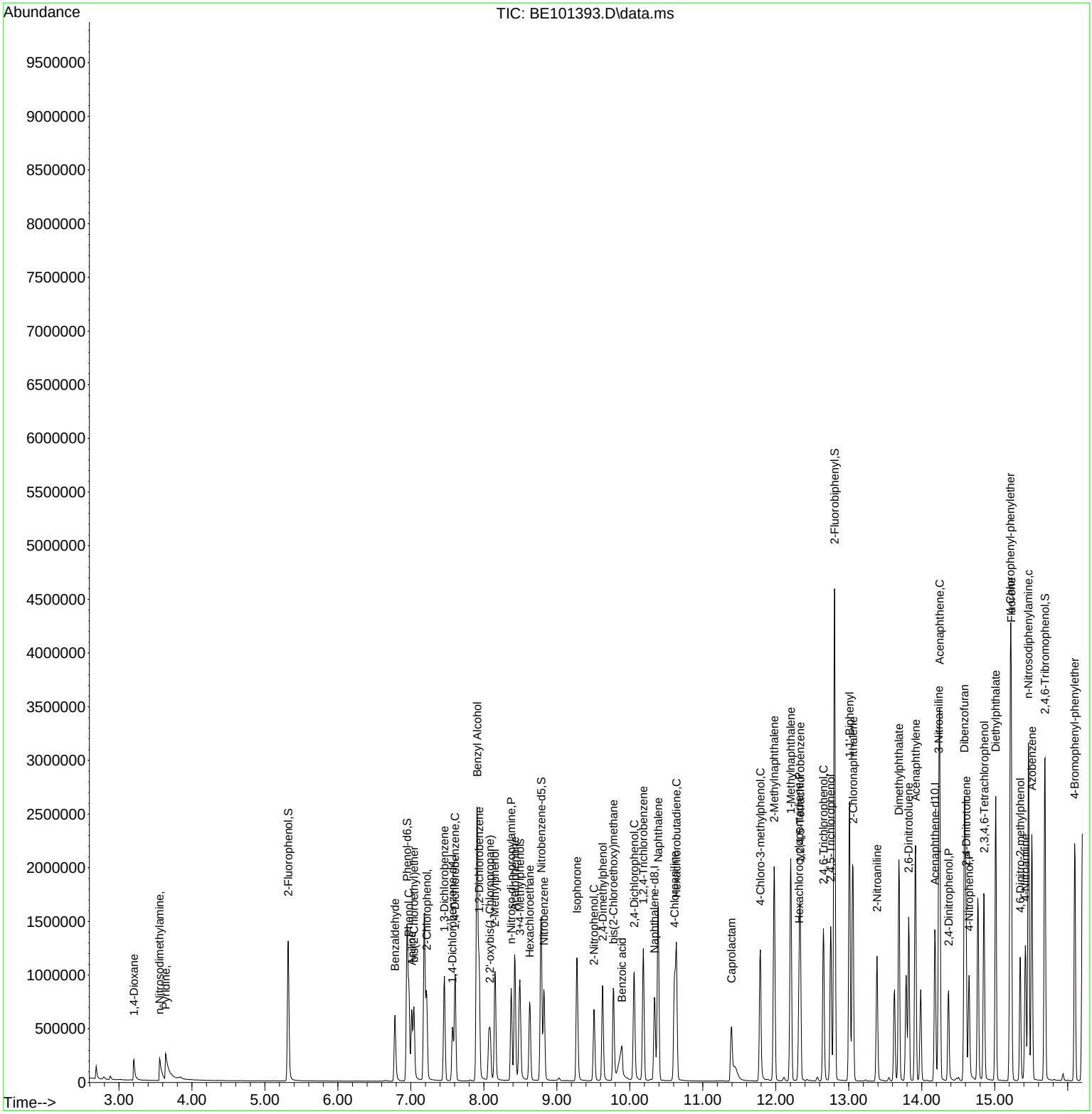
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

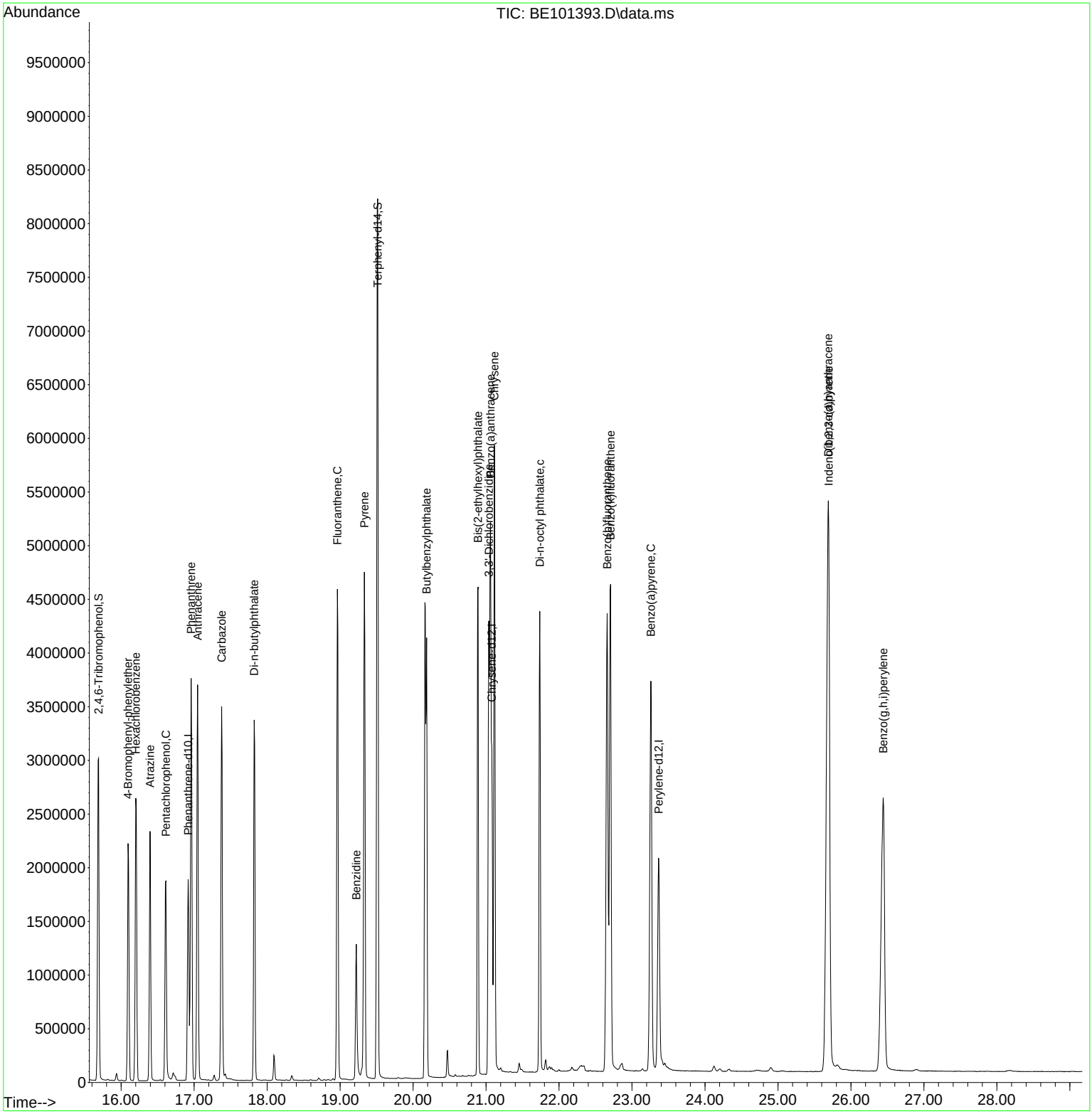
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	165364	20.000	ng	0.00
21) Naphthalene-d8	10.343	136	801441	20.000	ng	0.00
39) Acenaphthene-d10	14.186	164	574825	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1335462	20.000	ng	0.00
76) Chrysene-d12	21.083	240	1465052	20.000	ng	0.00
86) Perylene-d12	23.369	264	1864446	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	945317	100.193	ng	0.00
7) Phenol-d6	6.953	99	1318040	100.748	ng	0.00
23) Nitrobenzene-d5	8.786	82	1293125	101.343	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	1019729	101.216	ng	0.00
45) 2-Fluorobiphenyl	12.805	172	3200754	94.300	ng	0.00
79) Terphenyl-d14	19.515	244	5028542	78.997	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.198	88	165210	46.948	ng	99
3) Pyridine	3.633	79	517567m	52.118	ng	
4) n-Nitrosodimethylamine	3.551	42	195679	51.540	ng	97
6) Aniline	7.012	93	537724	53.623	ng	99
8) 2-Chlorophenol	7.217	128	565957	50.013	ng	99
9) Benzaldehyde	6.782	77	280236	44.373	ng	97
10) Phenol	6.976	94	743054	52.347	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	546510	47.680	ng	100
12) 1,3-Dichlorobenzene	7.458	146	588809	48.254	ng	99
13) 1,4-Dichlorobenzene	7.605	146	598105	47.999	ng	99
14) 1,2-Dichlorobenzene	7.934	146	592334	48.563	ng	99
15) Benzyl Alcohol	7.911	79	418834	53.709	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.081	45	707405	48.273	ng	99
17) 2-Methylphenol	8.157	107	488237	50.820	ng	99
18) Hexachloroethane	8.627	117	204778	50.323	ng	98
19) n-Nitroso-di-n-propyla...	8.375	70	460800	53.079	ng	99
20) 3+4-Methylphenols	8.492	107	680525	51.316	ng	98
22) Acetophenone	8.428	105	899066	49.406	ng	99
24) Nitrobenzene	8.827	77	678889	49.988	ng	99
25) Isophorone	9.280	82	1279882	51.402	ng	99
26) 2-Nitrophenol	9.509	139	349958	53.315	ng	98
27) 2,4-Dimethylphenol	9.632	122	412678	49.962	ng	99
28) bis(2-Chloroethoxy)met...	9.779	93	749624	49.643	ng	98
29) 2,4-Dichlorophenol	10.061	162	574208	50.250	ng	98
30) 1,2,4-Trichlorobenzene	10.184	180	608746	48.902	ng	98
31) Naphthalene	10.390	128	1967240	48.168	ng	100
32) Benzoic acid	9.914	122	407599	47.974	ng	98
33) 4-Chloroaniline	10.619	127	729487	51.367	ng	99
34) Hexachlorobutadiene	10.637	225	358862	48.703	ng	99
35) Caprolactam	11.406	113	236422m	54.100	ng	
36) 4-Chloro-3-methylphenol	11.788	107	661811	50.866	ng	99
37) 2-Methylnaphthalene	11.982	142	1423968	48.395	ng	100
38) 1-Methylnaphthalene	12.206	142	1420443	48.370	ng	99
40) 1,2,4,5-Tetrachloroben...	12.335	216	705872	48.917	ng	100
41) Hexachlorocyclopentadiene	12.317	237	248185	52.077	ng	99
43) 2,4,6-Trichlorophenol	12.658	196	507003	50.966	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.758	196	577861	50.725	ng	99
46) 1,1'-Biphenyl	13.011	154	1905878	48.394	ng	99
47) 2-Chloronaphthalene	13.057	162	1515183	48.698	ng	99
48) 2-Nitroaniline	13.392	65	456762	54.549	ng	97
49) Acenaphthylene	13.915	152	2279098	49.532	ng	99
50) Dimethylphthalate	13.692	163	1979816	48.794	ng	100
51) 2,6-Dinitrotoluene	13.827	165	478307	51.059	ng	98
52) Acenaphthene	14.244	154	1460597	48.613	ng	98
53) 3-Nitroaniline	14.238	138	499231	53.595	ng	100
54) 2,4-Dinitrophenol	14.368	184	315420	49.677	ng	98
55) Dibenzofuran	14.591	168	2305303	48.140	ng	99
56) 4-Nitrophenol	14.656	139	456395	53.503	ng	98
57) 2,4-Dinitrotoluene	14.609	165	689305	53.448	ng	97
58) Fluorene	15.226	166	1946144	48.580	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	527624	50.129	ng	99
60) Diethylphthalate	15.014	149	2092467	49.303	ng	99
61) 4-Chlorophenyl-phenyle...	15.214	204	970975	48.844	ng	100
62) 4-Nitroaniline	15.431	138	564289	54.440	ng	97
63) Azobenzene	15.513	77	1794055	49.178	ng	98
65) 4,6-Dinitro-2-methylph...	15.355	198	416174	53.034	ng	97
66) n-Nitrosodiphenylamine	15.466	169	1722264	48.631	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	693890	49.394	ng	98
68) Hexachlorobenzene	16.207	284	904857	49.141	ng	98
69) Atrazine	16.395	200	363142	33.446	ng	100
70) Pentachlorophenol	16.612	266	573833	54.140	ng	100
71) Phenanthrene	16.965	178	3044921	47.621	ng	98
72) Anthracene	17.047	178	3034208	48.599	ng	97
73) Carbazole	17.382	167	3134249	49.063	ng	98
74) Di-n-butylphthalate	17.828	149	3532643	50.231	ng	98
75) Fluoranthene	18.968	202	3680604	47.394	ng	97
77) Benzidine	19.221	184	834538	44.882	ng	100
78) Pyrene	19.338	202	3852302	47.815	ng	95
80) Butylbenzylphthalate	20.184	149	1808983	51.218	ng	96
81) Benzo(a)anthracene	21.060	228	3835477	46.578	ng	94
82) 3,3'-Dichlorobenzidine	21.036	252	1647556	51.076	ng	99
83) Chrysene	21.119	228	3680796	46.231	ng	95
84) Bis(2-ethylhexyl)phtha...	20.890	149	2461511	52.462	ng	95
85) Di-n-octyl phthalate	21.736	149	3857877	50.096	ng	99
87) Indeno(1,2,3-cd)pyrene	25.713	276	6129290	49.122	ng	99
88) Benzo(b)fluoranthene	22.664	252	4768116	49.073	ng	97
89) Benzo(k)fluoranthene	22.711	252	4178802	46.021	ng	97
90) Benzo(a)pyrene	23.263	252	4190180	49.311	ng	98
91) Dibenzo(a,h)anthracene	25.701	278	5075435	49.227	ng	98
92) Benzo(g,h,i)perylene	26.459	276	5244934	49.372	ng	99

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

ICAL Form

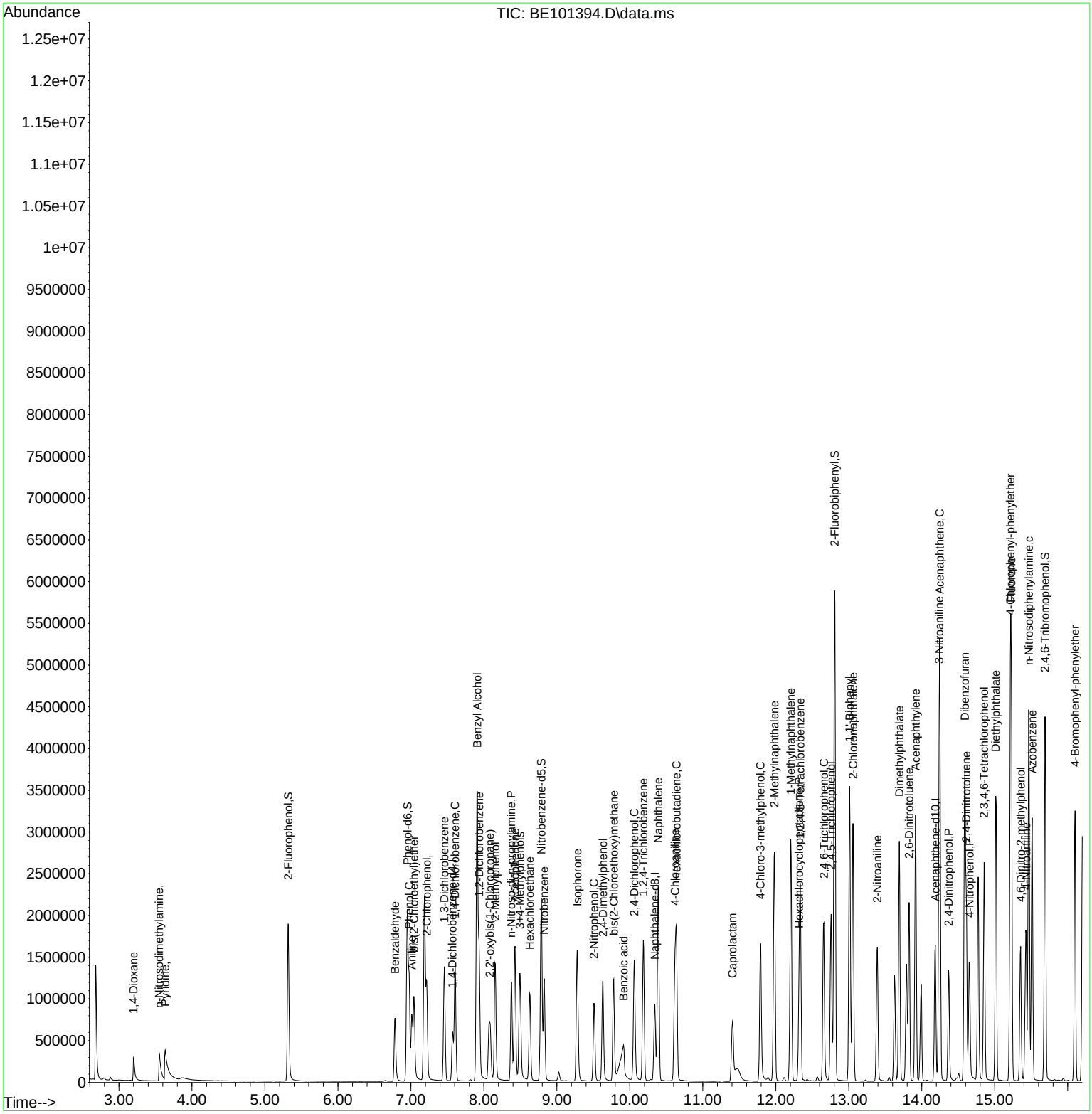
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

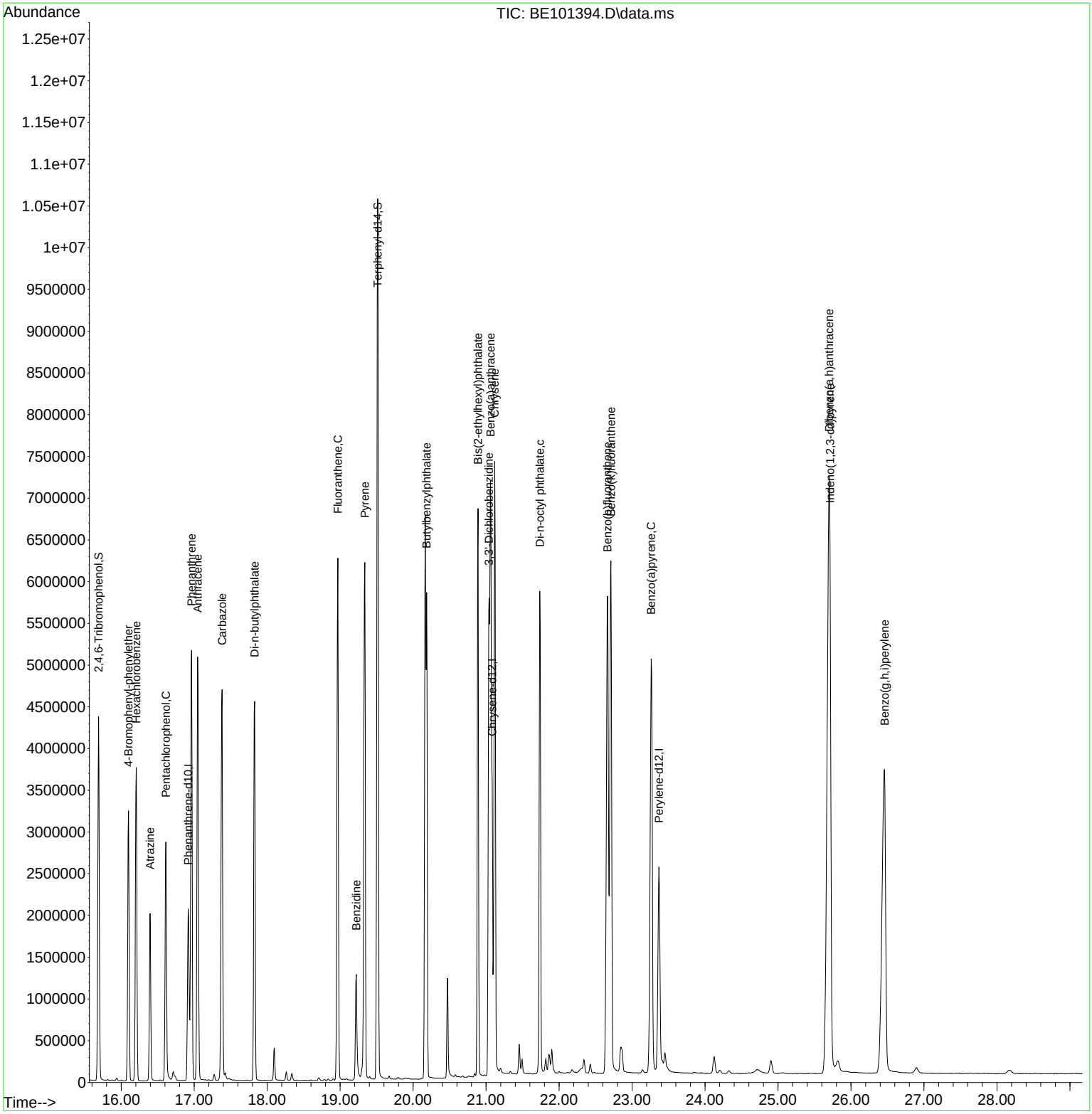
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.571	152	163155	20.000	ng		0.00
21) Naphthalene-d8	10.344	136	809663	20.000	ng		0.00
39) Acenaphthene-d10	14.186	164	591488	20.000	ng		0.00
64) Phenanthrene-d10	16.918	188	1356495	20.000	ng		0.00
76) Chrysene-d12	21.084	240	1430165	20.000	ng		0.00
86) Perylene-d12	23.370	264	1844714	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.320	112	1161751	124.799	ng		0.00
7) Phenol-d6	6.954	99	1690863	130.995	ng		0.00
23) Nitrobenzene-d5	8.787	82	1608437	124.774	ng		0.00
42) 2,4,6-Tribromophenol	15.696	330	1274537	122.943	ng		0.00
45) 2-Fluorobiphenyl	12.811	172	3805211	108.950	ng		0.00
79) Terphenyl-d14	19.515	244	5639764	90.760	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.199	88	191626	55.192	ng		97
3) Pyridine	3.628	79	629804m	64.279	ng		
4) n-Nitrosodimethylamine	3.552	42	238643	63.708	ng		100
6) Aniline	7.012	93	599193	60.562	ng		97
8) 2-Chlorophenol	7.218	128	697895	62.507	ng		99
9) Benzaldehyde	6.777	77	291474	46.777	ng		98
10) Phenol	6.977	94	936909	66.897	ng		99
11) bis(2-Chloroethyl)ether	7.042	93	689201	60.943	ng		100
12) 1,3-Dichlorobenzene	7.459	146	706102	58.650	ng		99
13) 1,4-Dichlorobenzene	7.606	146	726410	59.085	ng		99
14) 1,2-Dichlorobenzene	7.935	146	720379	59.861	ng		99
15) Benzyl Alcohol	7.911	79	518109	67.338	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.076	45	854650	59.110	ng		98
17) 2-Methylphenol	8.158	107	618187	65.217	ng		100
18) Hexachloroethane	8.628	117	242901	60.500	ng		100
19) n-Nitroso-di-n-propyla...	8.381	70	580217	67.739	ng		97
20) 3+4-Methylphenols	8.499	107	870273	66.513	ng		100
22) Acetophenone	8.428	105	1121751	61.017	ng	#	99
24) Nitrobenzene	8.828	77	850351	61.978	ng		99
25) Isophorone	9.280	82	1591646	63.273	ng		99
26) 2-Nitrophenol	9.509	139	443163	66.828	ng		100
27) 2,4-Dimethylphenol	9.633	122	521039	62.440	ng		100
28) bis(2-Chloroethoxy)met...	9.780	93	934621	61.266	ng		98
29) 2,4-Dichlorophenol	10.062	162	739800	64.084	ng		98
30) 1,2,4-Trichlorobenzene	10.185	180	745599	59.288	ng		99
31) Naphthalene	10.391	128	2427438	58.833	ng		99
32) Benzoic acid	9.932	122	540565	60.410	ng		99
33) 4-Chloroaniline	10.620	127	886113	61.762	ng		99
34) Hexachlorobutadiene	10.638	225	436703	58.666	ng		98
35) Caprolactam	11.419	113	305109m	69.109	ng		
36) 4-Chloro-3-methylphenol	11.795	107	842462	64.094	ng		100
37) 2-Methylnaphthalene	11.977	142	1788431	60.165	ng		99
38) 1-Methylnaphthalene	12.206	142	1780103	60.002	ng		98
40) 1,2,4,5-Tetrachloroben...	12.336	216	886111	59.677	ng		100
41) Hexachlorocyclopentadiene	12.318	237	297498	60.666	ng		98
43) 2,4,6-Trichlorophenol	12.659	196	639597	62.483	ng		98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.759	196	742308	63.325	ng		98
46) 1,1'-Biphenyl	13.011	154	2353812	58.085	ng		98
47) 2-Chloronaphthalene	13.058	162	1881309	58.761	ng		98
48) 2-Nitroaniline	13.393	65	584466	67.834	ng		98
49) Acenaphthylene	13.916	152	2833567	59.847	ng		97
50) Dimethylphthalate	13.699	163	2454675	58.793	ng		99
51) 2,6-Dinitrotoluene	13.834	165	613251	63.620	ng		97
52) Acenaphthene	14.251	154	1804815	58.378	ng		99
53) 3-Nitroaniline	14.239	138	612603	63.913	ng		99
54) 2,4-Dinitrophenol	14.374	184	407974	61.001	ng		100
55) Dibenzofuran	14.592	168	2853610	57.911	ng		98
56) 4-Nitrophenol	14.656	139	574109	65.406	ng		99
57) 2,4-Dinitrotoluene	14.615	165	878036	66.163	ng		98
58) Fluorene	15.232	166	2380604	57.751	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.856	232	670164	61.877	ng		100
60) Diethylphthalate	15.021	149	2532782	57.997	ng		97
61) 4-Chlorophenyl-phenyle...	15.215	204	1193362	58.339	ng		99
62) 4-Nitroaniline	15.432	138	699974	65.628	ng		99
63) Azobenzene	15.514	77	2208829	58.842	ng		97
65) 4,6-Dinitro-2-methylph...	15.356	198	532042	66.748	ng		100
66) n-Nitrosodiphenylamine	15.467	169	2117735	58.871	ng		98
67) 4-Bromophenyl-phenylether	16.102	248	872994	61.180	ng		98
68) Hexachlorobenzene	16.207	284	1133251	60.590	ng		98
70) Pentachlorophenol	16.613	266	721263	66.994	ng		99
71) Phenanthrene	16.965	178	3645888	56.136	ng		95
72) Anthracene	17.054	178	3634148	57.305	ng		96
73) Carbazole	17.383	167	3721077	57.345	ng		96
74) Di-n-butylphthalate	17.829	149	4008628	56.115	ng		96
75) Fluoranthene	18.969	202	4242490	53.782	ng		94
77) Benzidine	19.222	184	848095	46.724	ng		100
78) Pyrene	19.339	202	4360488	55.443	ng	#	91
80) Butylbenzylphthalate	20.185	149	2101110	60.940	ng		96
81) Benzo(a)anthracene	21.061	228	4335279	53.932	ng		90
82) 3,3'-Dichlorobenzidine	21.037	252	1903536	60.451	ng		99
83) Chrysene	21.119	228	4127052	53.101	ng		92
84) Bis(2-ethylhexyl)phtha...	20.890	149	2827835	61.739	ng		93
85) Di-n-octyl phthalate	21.736	149	4427600	58.897	ng		98
87) Indeno(1,2,3-cd)pyrene	25.720	276	7274934	58.927	ng		98
88) Benzo(b)fluoranthene	22.665	252	5533490	57.560	ng		96
89) Benzo(k)fluoranthene	22.712	252	4844203m	53.920	ng		
90) Benzo(a)pyrene	23.270	252	4927882	58.613	ng		96
91) Dibenzo(a,h)anthracene	25.708	278	5992823	58.746	ng		97
92) Benzo(g,h,i)perylene	26.466	276	6373220	60.635	ng		98

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

ICAL Form

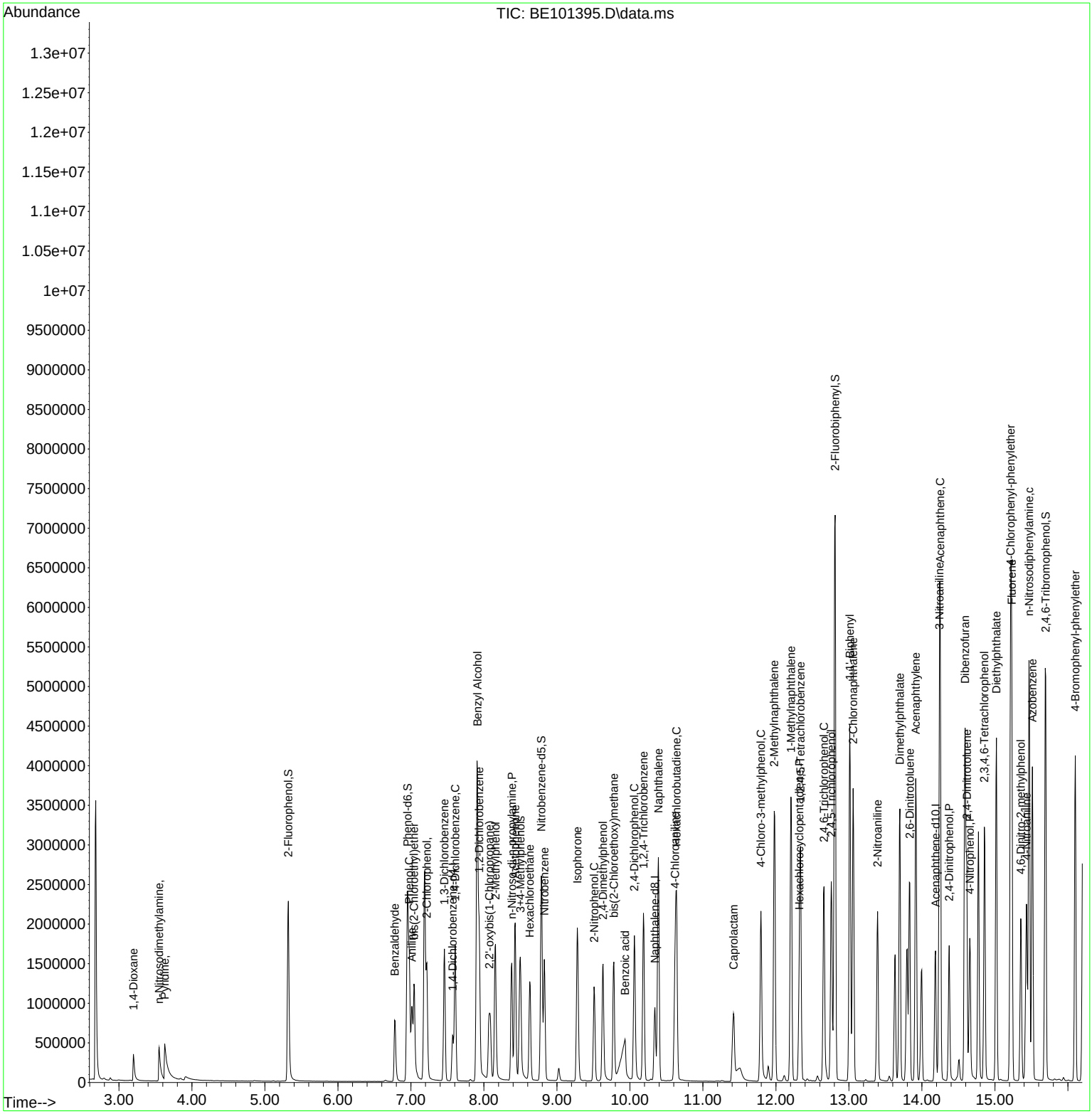
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

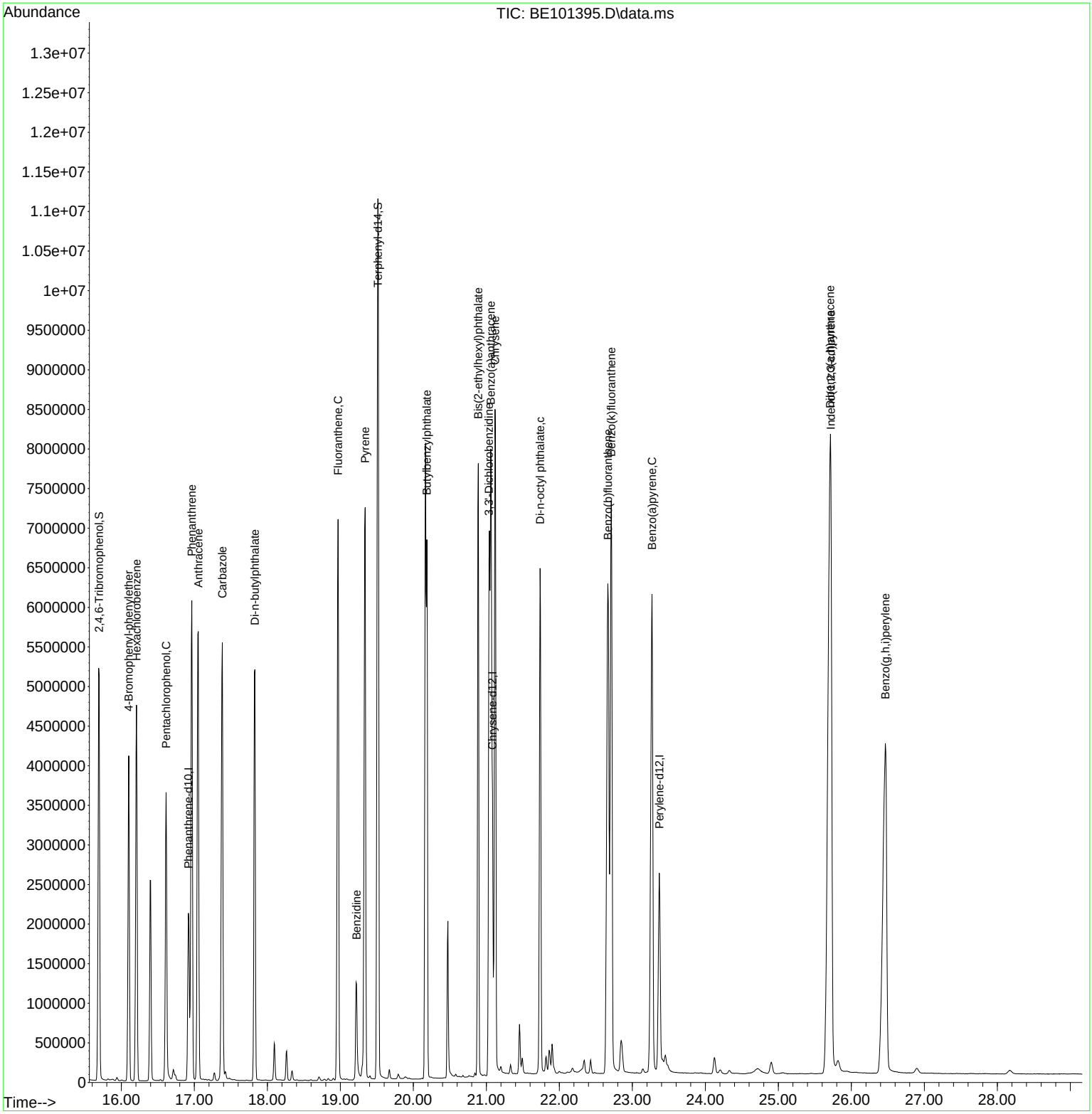
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 29 01:22:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.575	152	178600	20.000	ng		0.00
21) Naphthalene-d8	10.342	136	857359	20.000	ng		0.00
39) Acenaphthene-d10	14.185	164	629145	20.000	ng		0.00
64) Phenanthrene-d10	16.923	188	1425289	20.000	ng		0.00
76) Chrysene-d12	21.089	240	1483802	20.000	ng		0.01
86) Perylene-d12	23.374	264	1958585	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.319	112	1650888	162.007	ng		0.00
7) Phenol-d6	6.958	99	2347999	166.174	ng		0.01
23) Nitrobenzene-d5	8.791	82	2169296	158.920	ng		0.00
42) 2,4,6-Tribromophenol	15.701	330	1741409	157.924	ng		0.01
45) 2-Fluorobiphenyl	12.810	172	4719582	127.042	ng		0.00
79) Terphenyl-d14	0.000	244	0d	0.000	ng		
Target Compounds							Qvalue
2) 1,4-Dioxane	3.198	88	270568	71.190	ng		99
3) Pyridine	3.621	79	894327m	83.383	ng		
4) n-Nitrosodimethylamine	3.544	42	334535	81.584	ng		97
6) Aniline	7.017	93	548070m	50.604	ng		
8) 2-Chlorophenol	7.222	128	979447	80.138	ng		100
10) Phenol	6.981	94	1263744	82.431	ng		99
11) bis(2-Chloroethyl)ether	7.046	93	1066176m	86.125	ng		
12) 1,3-Dichlorobenzene	7.457	146	987323	74.916	ng		99
13) 1,4-Dichlorobenzene	7.604	146	1006819	74.811	ng		99
14) 1,2-Dichlorobenzene	7.939	146	991630	75.275	ng		99
15) Benzyl Alcohol	7.916	79	707261	83.973	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.080	45	1173362	74.135	ng		97
17) 2-Methylphenol	8.157	107	867917	83.645	ng		100
18) Hexachloroethane	8.633	117	343760	78.217	ng		99
19) n-Nitroso-di-n-propyla...	8.386	70	787045	83.939	ng		97
20) 3+4-Methylphenols	8.497	107	1195852	83.492	ng		98
22) Acetophenone	8.427	105	1529824	78.585	ng	#	99
24) Nitrobenzene	8.832	77	1163720	80.099	ng		97
25) Isophorone	9.285	82	2169116	81.433	ng		98
26) 2-Nitrophenol	9.514	139	621636	88.527	ng		97
27) 2,4-Dimethylphenol	9.631	122	723584	81.889	ng		100
28) bis(2-Chloroethoxy)met...	9.778	93	1268974	78.555	ng		98
29) 2,4-Dichlorophenol	10.066	162	1019981	83.439	ng		99
30) 1,2,4-Trichlorobenzene	10.190	180	1026026	77.047	ng		98
31) Naphthalene	10.389	128	3210242	73.477	ng		97
32) Benzoic acid	9.966	122	802694	81.411	ng		98
33) 4-Chloroaniline	10.624	127	1045977	68.848	ng		99
34) Hexachlorobutadiene	10.642	225	602261	76.406	ng		99
35) Caprolactam	11.447	113	423607m	90.611	ng		
36) 4-Chloro-3-methylphenol	11.805	107	1177907	84.629	ng		99
37) 2-Methylnaphthalene	11.982	142	2386729	75.826	ng		99
38) 1-Methylnaphthalene	12.211	142	2387484	75.998	ng		99
40) 1,2,4,5-Tetrachloroben...	12.340	216	1210469	76.642	ng		100
41) Hexachlorocyclopentadiene	12.322	237	406717	77.974	ng		98
43) 2,4,6-Trichlorophenol	12.657	196	889070	81.656	ng		99
44) 2,4,5-Trichlorophenol	12.763	196	1033376	82.879	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:22:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	13.016	154	3080214	71.461	ng		96
47) 2-Chloronaphthalene	13.063	162	2521882	74.054	ng		96
48) 2-Nitroaniline	13.398	65	810925	88.484	ng		97
49) Acenaphthylene	13.920	152	3707314	73.615	ng		95
50) Dimethylphthalate	13.703	163	3267141	73.569	ng		98
51) 2,6-Dinitrotoluene	13.838	165	839701	81.898	ng		97
52) Acenaphthene	14.249	154	2355574	71.632	ng		97
53) 3-Nitroaniline	14.244	138	793668	77.847	ng		97
54) 2,4-Dinitrophenol	14.379	184	582382	79.945	ng		99
55) Dibenzofuran	14.590	168	3693841	70.475	ng		92
56) 4-Nitrophenol	14.667	139	799802	85.665	ng		98
57) 2,4-Dinitrotoluene	14.620	165	1210728	85.772	ng		100
58) Fluorene	15.231	166	3075135	70.134	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.861	232	929313	80.669	ng		100
60) Diethylphthalate	15.025	149	3340276	71.909	ng		93
61) 4-Chlorophenyl-phenyle...	15.219	204	1587212	72.949	ng		98
62) 4-Nitroaniline	15.442	138	979372	86.327	ng		99
63) Azobenzene	15.519	77	2903362	72.715	ng		93
65) 4,6-Dinitro-2-methylph...	15.360	198	757521	90.448	ng		98
66) n-Nitrosodiphenylamine	15.472	169	2787792	73.757	ng		97
67) 4-Bromophenyl-phenylether	16.100	248	1192660	79.548	ng		100
68) Hexachlorobenzene	16.212	284	1535726	78.146	ng		98
70) Pentachlorophenol	16.617	266	1010500	89.330	ng		99
71) Phenanthrene	16.970	178	4566935	66.923	ng	#	91
72) Anthracene	17.052	178	4521882	67.862	ng	#	90
73) Carbazole	17.387	167	4672533	68.533	ng	#	90
74) Di-n-butylphthalate	17.828	149	4941803	65.839	ng	#	92
75) Fluoranthene	18.973	202	5150870	62.145	ng		89
77) Benzidine	19.220	184	1366638	72.570	ng		99
78) Pyrene	19.343	202	5284167	64.759	ng	#	86
80) Butylbenzylphthalate	20.190	149	2702990	75.562	ng		96
81) Benzo(a)anthracene	21.065	228	5217950	62.566	ng	#	85
82) 3,3'-Dichlorobenzidine	21.041	252	2349046	71.902	ng		97
83) Chrysene	21.124	228	4974972	61.697	ng	#	86
84) Bis(2-ethylhexyl)phtha...	20.889	149	3506446	73.788	ng	#	89
85) Di-n-octyl phthalate	21.741	149	5240960	67.196	ng	#	96
87) Indeno(1,2,3-cd)pyrene	25.742	276	9511841	72.567	ng		98
88) Benzo(b)fluoranthene	22.675	252	6843216	67.045	ng	#	91
89) Benzo(k)fluoranthene	22.722	252	6063342	63.566	ng	#	89
90) Benzo(a)pyrene	23.274	252	6239978	69.904	ng	#	91
91) Dibenzo(a,h)anthracene	25.724	278	7655222	70.679	ng		95
92) Benzo(g,h,i)perylene	26.482	276	8419364	75.445	ng		96

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

ICAL Form

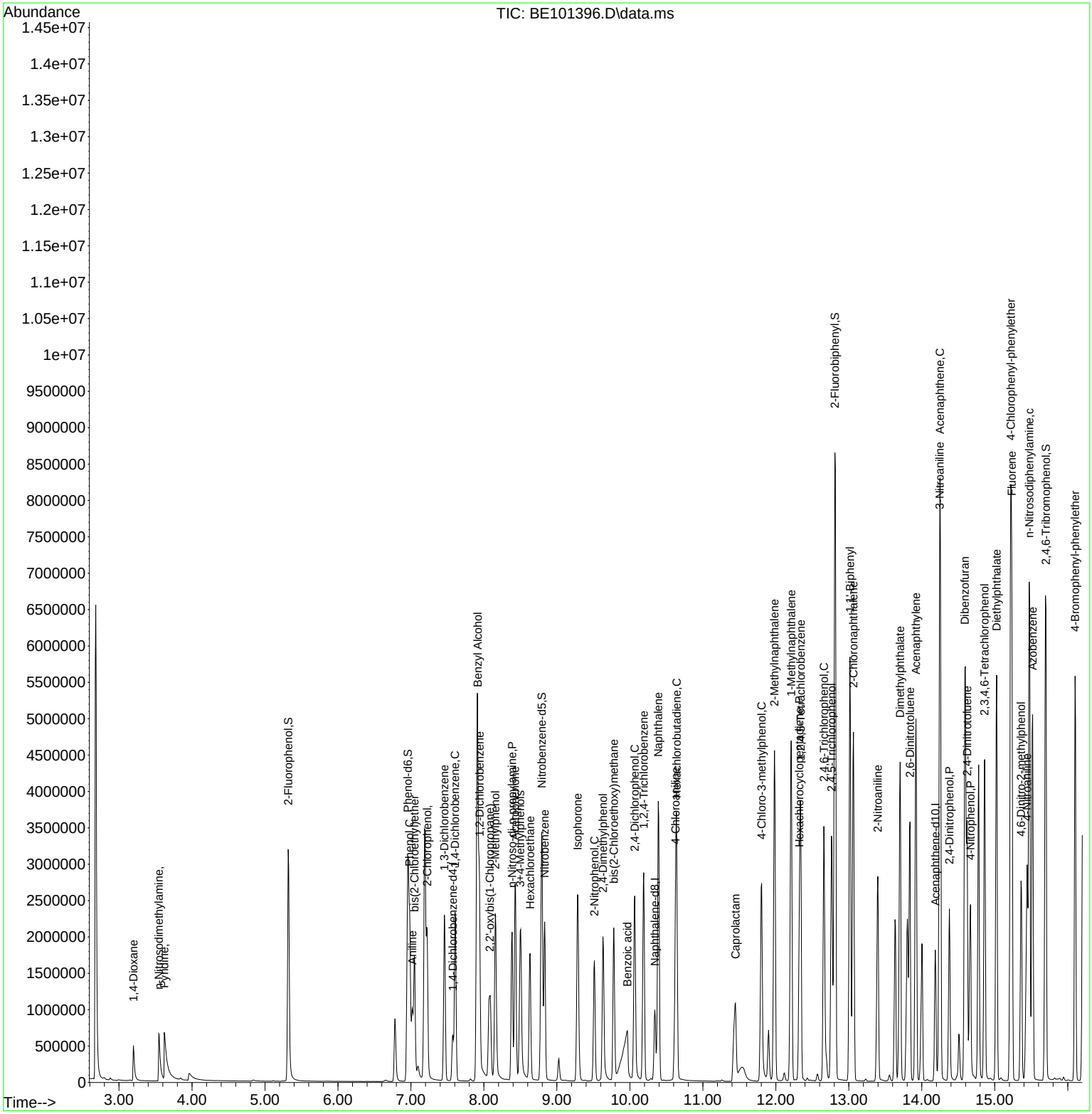
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 29 01:22:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
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Misc :
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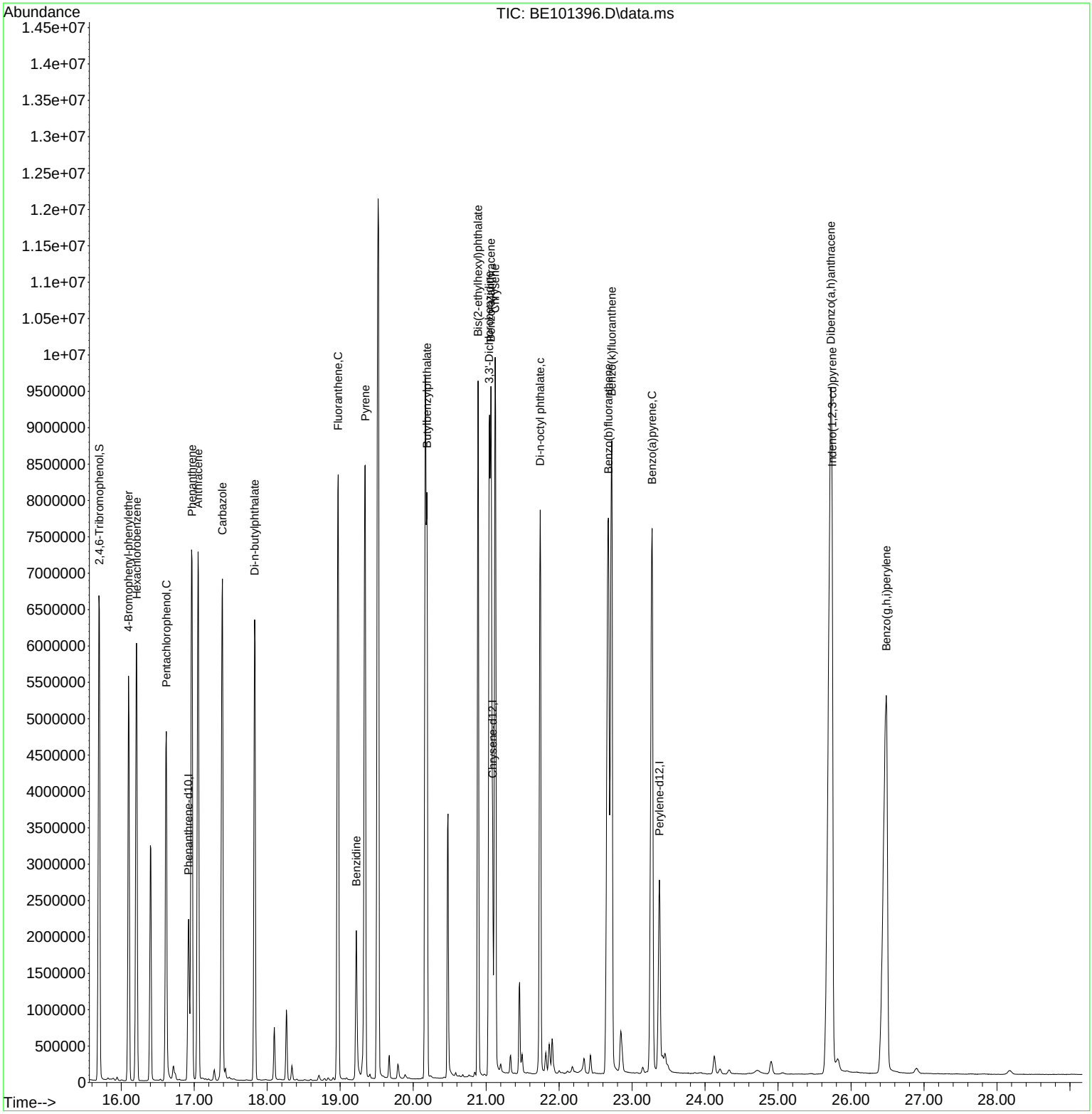
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	135975	20.000	ng	0.00
21) Naphthalene-d8	10.343	136	689556	20.000	ng	0.00
39) Acenaphthene-d10	14.186	164	494390	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1118107	20.000	ng	0.00
76) Chrysene-d12	21.077	240	1178888	20.000	ng	0.00
86) Perylene-d12	23.369	264	1506294	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.319	112	642682	82.839	ng	0.00
7) Phenol-d6	6.953	99	943928	87.746	ng	0.00
23) Nitrobenzene-d5	8.786	82	931158	84.816	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	730631	84.319	ng	0.00
45) 2-Fluorobiphenyl	12.805	172	2410105	82.558	ng	0.00
79) Terphenyl-d14	19.515	244	4018242	78.448	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.204	88	112859	39.003	ng	99
3) Pyridine	3.639	79	342567m	41.845	ng	
4) n-Nitrosodimethylamine	3.557	42	131547	41.530	ng	99
6) Aniline	7.012	93	381702m	46.299	ng	
8) 2-Chlorophenol	7.217	128	394111	42.354	ng	99
9) Benzaldehyde	6.782	77	243959	46.978	ng	98
10) Phenol	6.976	94	524973	44.977	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	352789	36.844	ng	99
12) 1,3-Dichlorobenzene	7.458	146	407554	40.619	ng	99
13) 1,4-Dichlorobenzene	7.605	146	416170	40.617	ng	99
14) 1,2-Dichlorobenzene	7.934	146	416666	41.544	ng	99
15) Benzyl Alcohol	7.916	79	280441	43.735	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.075	45	504614	41.877	ng	96
17) 2-Methylphenol	8.157	107	338367	42.832	ng	100
18) Hexachloroethane	8.627	117	140124	41.877	ng	97
19) n-Nitroso-di-n-propyla...	8.375	70	334804	46.901	ng	98
20) 3+4-Methylphenols	8.492	107	482425	44.240	ng	96
22) Acetophenone	8.422	105	658880	42.082	ng	99
24) Nitrobenzene	8.827	77	486233	41.612	ng	98
25) Isophorone	9.280	82	923963	43.128	ng	99
26) 2-Nitrophenol	9.509	139	247215	43.773	ng	99
27) 2,4-Dimethylphenol	9.632	122	296382	41.704	ng	99
28) bis(2-Chloroethoxy)met...	9.779	93	543065	41.799	ng	99
29) 2,4-Dichlorophenol	10.061	162	413366	42.044	ng	100
30) 1,2,4-Trichlorobenzene	10.184	180	432858	40.415	ng	99
31) Naphthalene	10.390	128	1427648	40.628	ng	100
32) Benzoic acid	9.896	122	280040	39.965	ng	99
33) 4-Chloroaniline	10.613	127	560356	45.859	ng	99
34) Hexachlorobutadiene	10.637	225	255945	40.372	ng	99
35) Caprolactam	11.395	113	166215	44.104	ng	98
36) 4-Chloro-3-methylphenol	11.788	107	479680	42.850	ng	99
37) 2-Methylnaphthalene	11.976	142	1040801	41.112	ng	99
38) 1-Methylnaphthalene	12.206	142	1039012	41.122	ng	99
40) 1,2,4,5-Tetrachloroben...	12.335	216	508563	40.977	ng	100
41) Hexachlorocyclopentadiene	12.317	237	169665	41.393	ng	99
43) 2,4,6-Trichlorophenol	12.658	196	369991	43.244	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.758	196	417164	42.577	ng	100
46) 1,1'-Biphenyl	13.010	154	1390011	41.038	ng	99
47) 2-Chloronaphthalene	13.057	162	1102426	41.196	ng	99
48) 2-Nitroaniline	13.386	65	326383	45.320	ng	99
49) Acenaphthylene	13.915	152	1651908	41.742	ng	99
50) Dimethylphthalate	13.692	163	1435201	41.126	ng	100
51) 2,6-Dinitrotoluene	13.827	165	339386	42.124	ng	97
52) Acenaphthene	14.244	154	1064171	41.182	ng	99
53) 3-Nitroaniline	14.233	138	354038	44.191	ng	99
54) 2,4-Dinitrophenol	14.368	184	204189	38.780	ng	98
55) Dibenzofuran	14.591	168	1676523	40.705	ng	99
56) 4-Nitrophenol	14.650	139	305994	41.707	ng	99
57) 2,4-Dinitrotoluene	14.609	165	480487	43.318	ng	99
58) Fluorene	15.225	166	1418626	41.173	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	384198	42.441	ng	99
60) Diethylphthalate	15.014	149	1493405	40.913	ng	100
61) 4-Chlorophenyl-phenyle...	15.214	204	701783	41.046	ng	99
62) 4-Nitroaniline	15.419	138	385584	43.251	ng	99
63) Azobenzene	15.508	77	1304082	41.563	ng	99
65) 4,6-Dinitro-2-methylph...	15.349	198	274306	41.750	ng	99
66) n-Nitrosodiphenylamine	15.466	169	1234319	41.628	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	491891	41.822	ng	96
68) Hexachlorobenzene	16.207	284	643314	41.729	ng	97
69) Atrazine	16.395	200	406439	44.711	ng	100
70) Pentachlorophenol	16.612	266	397449	44.788	ng	98
71) Phenanthrene	16.959	178	2206489	41.217	ng	100
72) Anthracene	17.047	178	2193019	41.954	ng	99
73) Carbazole	17.376	167	2216213	41.436	ng	100
74) Di-n-butylphthalate	17.822	149	2524597	42.876	ng	100
75) Fluoranthene	18.962	202	2654890	40.831	ng	99
77) Benzidine	19.221	184	902385	60.311	ng	100
78) Pyrene	19.332	202	2798951	43.174	ng	100
80) Butylbenzylphthalate	20.184	149	1229626	43.265	ng	99
81) Benzo(a)anthracene	21.060	228	2796518	42.205	ng	100
82) 3,3'-Dichlorobenzidine	21.036	252	1140565	43.941	ng	100
83) Chrysene	21.113	228	2666843	41.627	ng	99
84) Bis(2-ethylhexyl)phtha...	20.889	149	1683088	44.579	ng	99
85) Di-n-octyl phthalate	21.736	149	2752236	44.414	ng	100
87) Indeno(1,2,3-cd)pyrene	25.696	276	4140658	41.075	ng	100
88) Benzo(b)fluoranthene	22.658	252	3307474	42.134	ng	99
89) Benzo(k)fluoranthene	22.705	252	3044393	41.512	ng	99
90) Benzo(a)pyrene	23.257	252	2880588	41.960	ng	100
91) Dibenzo(a,h)anthracene	25.684	278	3469403	41.651	ng	99
92) Benzo(g,h,i)perylene	26.442	276	3517606	40.986	ng	99

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

ICAL Form

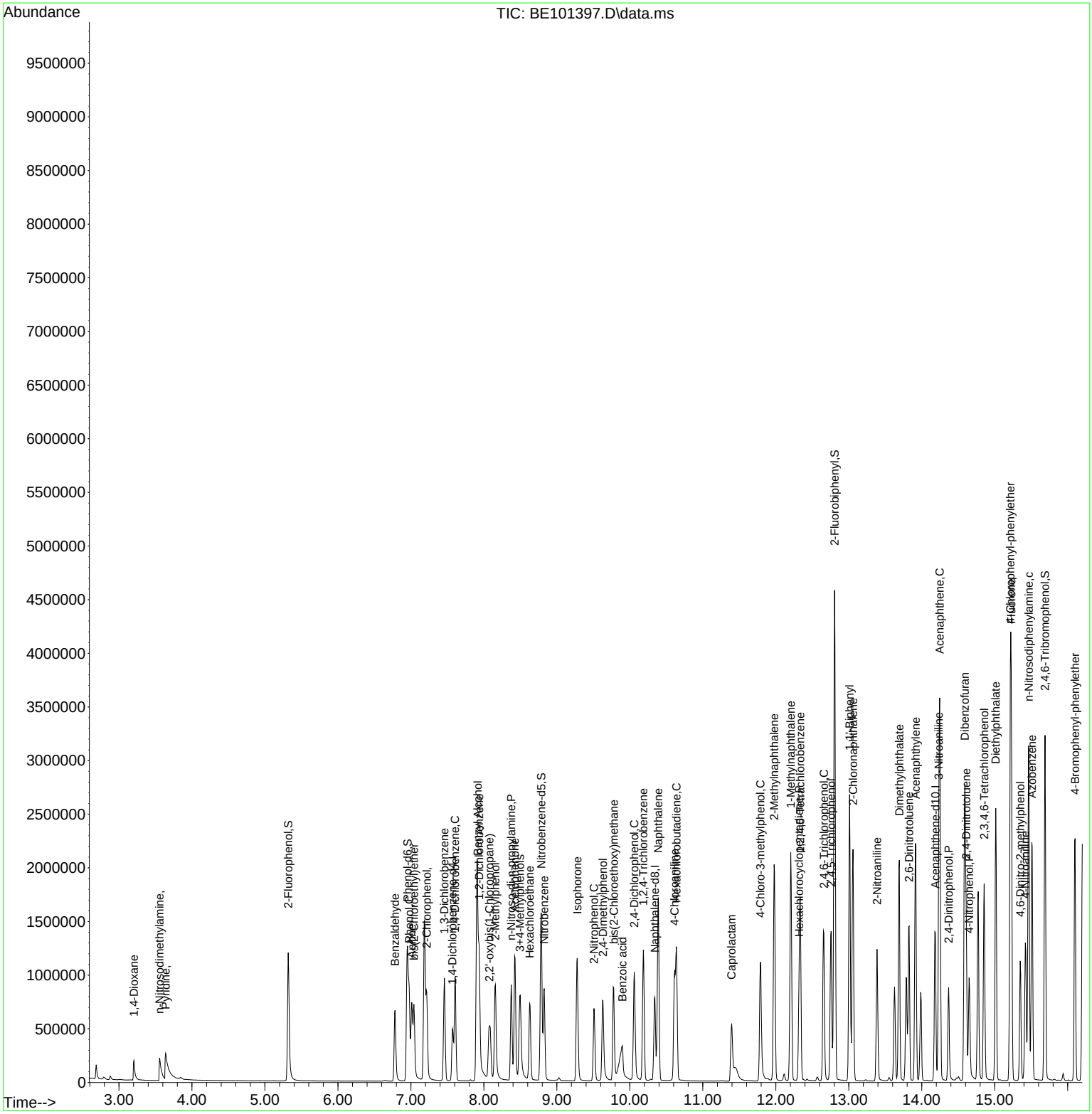
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
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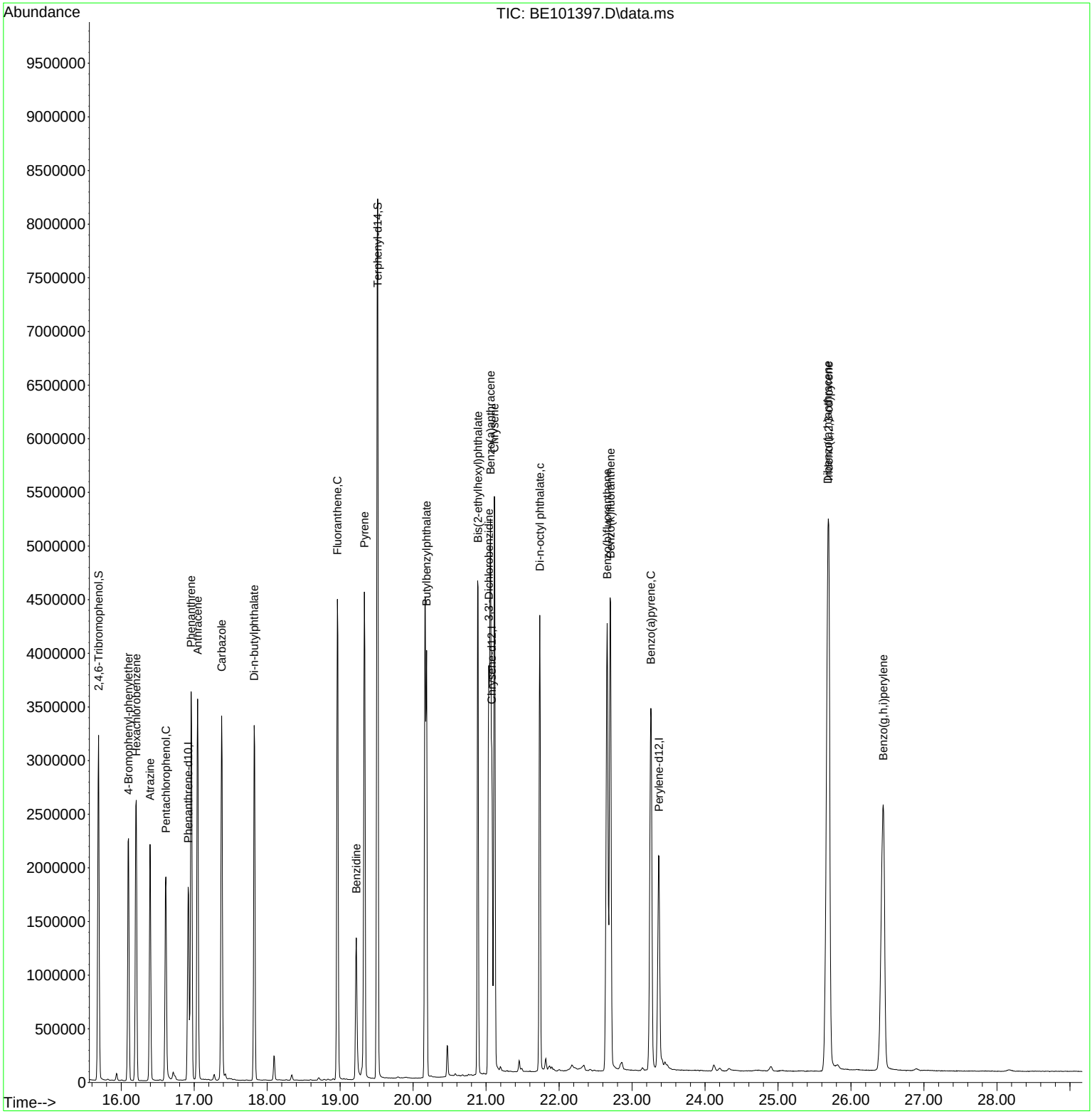
Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2		1,4-Dioxane	0.426	0.415	2.6	95	0.00
3		Pyridine	1.204	1.260	-4.7	102	0.00
4		n-Nitrosodimethylamine	0.466	0.484	-3.9	97	0.00
5	S	2-Fluorophenol	1.141	1.182	-3.6	99	0.00
6		Aniline	1.213	1.404	-15.7	101	0.00
7	S	Phenol-d6	1.582	1.735	-9.7	103	0.00
8		2-Chlorophenol	1.369	1.449	-5.8	100	0.00
9		Benzaldehyde	0.764	0.897	-17.4	107	0.00
10	C	Phenol	1.717	1.930	-12.4	102	0.00
11		bis(2-Chloroethyl)ether	1.408	1.297	7.9	85	0.00
12		1,3-Dichlorobenzene	1.476	1.499	-1.6	97	0.00
13	C	1,4-Dichlorobenzene	1.507	1.530	-1.5	98	0.00
14		1,2-Dichlorobenzene	1.475	1.532	-3.9	99	0.00
15		Benzyl Alcohol	0.943	1.031	-9.3	94	0.00
16		2,2'-oxybis(1-Chloropropane	1.772	1.856	-4.7	100	0.00
17		2-Methylphenol	1.162	1.244	-7.1	99	0.00
18		Hexachloroethane	0.492	0.515	-4.7	100	0.00
19	P	n-Nitroso-di-n-propylamine	1.050	1.231	-17.2	103	0.00
20		3+4-Methylphenols	1.604	1.774	-10.6	102	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
22		Acetophenone	0.454	0.478	-5.3	101	0.00
23	S	Nitrobenzene-d5	0.318	0.338	-6.3	102	0.00
24		Nitrobenzene	0.339	0.353	-4.1	101	0.00
25		Isophorone	0.621	0.670	-7.9	102	0.00
26	C	2-Nitrophenol	0.164	0.179	-9.1	102	0.00
27		2,4-Dimethylphenol	0.206	0.215	-4.4	101	0.00
28		bis(2-Chloroethoxy)methane	0.377	0.394	-4.5	102	0.00
29	C	2,4-Dichlorophenol	0.285	0.300	-5.3	102	0.00
30		1,2,4-Trichlorobenzene	0.311	0.314	-1.0	102	0.00
31		Naphthalene	1.019	1.035	-1.6	101	0.00
32		Benzoic acid	0.182	0.203	-11.5	105	0.00
33		4-Chloroaniline	0.354	0.406	-14.7	104	0.00
34	C	Hexachlorobutadiene	0.184	0.186	-1.1	100	0.00
35		Caprolactam	0.109	0.121	-11.0	103	0.00
36	C	4-Chloro-3-methylphenol	0.325	0.348	-7.1	104	0.00
37		2-Methylnaphthalene	0.734	0.755	-2.9	101	0.00
38		1-Methylnaphthalene	0.733	0.753	-2.7	102	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
40		1,2,4,5-Tetrachlorobenzene	0.502	0.514	-2.4	101	0.00
41	P	Hexachlorocyclopentadiene	0.166	0.172	-3.6	98	0.00
42	S	2,4,6-Tribromophenol	0.351	0.369	-5.1	102	0.00
43	C	2,4,6-Trichlorophenol	0.346	0.374	-8.1	102	0.00
44		2,4,5-Trichlorophenol	0.396	0.422	-6.6	103	0.00
45	S	2-Fluorobiphenyl	1.181	1.219	-3.2	100	0.00
46		1,1'-Biphenyl	1.370	1.406	-2.6	101	0.00
47		2-Chloronaphthalene	1.083	1.115	-3.0	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.291	0.330	-13.4	105	0.00
49		Acenaphthylene	1.601	1.671	-4.4	101	0.00
50		Dimethylphthalate	1.412	1.451	-2.8	101	0.00
51		2,6-Dinitrotoluene	0.326	0.343	-5.2	100	0.00
52	C	Acenaphthene	1.045	1.076	-3.0	101	0.00
53		3-Nitroaniline	0.324	0.358	-10.5	101	0.00
54	P	2,4-Dinitrophenol	0.198	0.207	-4.5	100	0.00
55		Dibenzofuran	1.666	1.696	-1.8	101	0.00
56	P	4-Nitrophenol	0.297	0.309	-4.0	100	0.00
57		2,4-Dinitrotoluene	0.449	0.486	-8.2	102	0.00
58		Fluorene	1.394	1.435	-2.9	100	0.00
59		2,3,4,6-Tetrachlorophenol	0.366	0.389	-6.3	103	0.00
60		Diethylphthalate	1.477	1.510	-2.2	99	0.00
61		4-Chlorophenyl-phenylether	0.692	0.710	-2.6	101	0.00
62		4-Nitroaniline	0.361	0.390	-8.0	101	0.00
63		Azobenzene	1.269	1.319	-3.9	101	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	0.118	0.123	-4.2	99	0.00
66	c	n-Nitrosodiphenylamine	0.530	0.552	-4.2	100	0.00
67		4-Bromophenyl-phenylether	0.210	0.220	-4.8	102	0.00
68		Hexachlorobenzene	0.276	0.288	-4.3	101	0.00
69		Atrazine	0.163	0.182	-11.7	99	0.00
70	C	Pentachlorophenol	0.159	0.178	-11.9	103	0.00
71		Phenanthrene	0.958	0.987	-3.0	99	0.00
72		Anthracene	0.935	0.981	-4.9	100	0.00
73		Carbazole	0.957	0.991	-3.6	99	0.00
74		Di-n-butylphthalate	1.053	1.129	-7.2	99	0.00
75	C	Fluoranthene	1.163	1.187	-2.1	99	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	97	0.00
77		Benzidine	0.254	0.383	-50.8#	107	0.00
78		Pyrene	1.100	1.187	-7.9	98	0.00
79	S	Terphenyl-d14	0.869	0.852	2.0	98	0.00
80		Butylbenzylphthalate	0.482	0.522	-8.3	99	0.00
81		Benzo(a)anthracene	1.124	1.186	-5.5	98	0.00
82		3,3'-Dichlorobenzidine	0.440	0.484	-10.0	98	0.00
83		Chrysene	1.087	1.131	-4.0	99	0.00
84		Bis(2-ethylhexyl)phthalate	0.641	0.714	-11.4	99	0.00
85	c	Di-n-octyl phthalate	1.051	1.167	-11.0	100	0.00
86	I	Perylene-d12	1.000	1.000	0.0	100	0.00
87		Indeno(1,2,3-cd)pyrene	1.338	1.374	-2.7	98	0.00
88		Benzo(b)fluoranthene	1.042	1.098	-5.4	99	0.00
89		Benzo(k)fluoranthene	0.974	1.011	-3.8	99	0.00
90	C	Benzo(a)pyrene	0.912	0.956	-4.8	99	0.00
91		Dibenzo(a,h)anthracene	1.106	1.152	-4.2	98	0.00
92		Benzo(g,h,i)perylene	1.140	1.168	-2.5	99	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
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Instrument :
BNA_E
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Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
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Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	96	0.00
2		1,4-Dioxane	40.000	39.003	2.5	95	0.00
3		Pyridine	40.000	41.845	-4.6	102	0.00
4		n-Nitrosodimethylamine	40.000	41.530	-3.8	97	0.00
5	S	2-Fluorophenol	80.000	82.839	-3.5	99	0.00
6		Aniline	40.000	46.299	-15.7	101	0.00
7	S	Phenol-d6	80.000	87.746	-9.7	103	0.00
8		2-Chlorophenol	40.000	42.354	-5.9	100	0.00
9		Benzaldehyde	40.000	46.978	-17.4	107	0.00
10	C	Phenol	40.000	44.977	-12.4	102	0.00
11		bis(2-Chloroethyl)ether	40.000	36.844	7.9	85	0.00
12		1,3-Dichlorobenzene	40.000	40.619	-1.5	97	0.00
13	C	1,4-Dichlorobenzene	40.000	40.617	-1.5	98	0.00
14		1,2-Dichlorobenzene	40.000	41.544	-3.9	99	0.00
15		Benzyl Alcohol	40.000	43.735	-9.3	94	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	41.877	-4.7	100	0.00
17		2-Methylphenol	40.000	42.832	-7.1	99	0.00
18		Hexachloroethane	40.000	41.877	-4.7	100	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	46.901	-17.3	103	0.00
20		3+4-Methylphenols	40.000	44.240	-10.6	102	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	101	0.00
22		Acetophenone	40.000	42.082	-5.2	101	0.00
23	S	Nitrobenzene-d5	80.000	84.816	-6.0	102	0.00
24		Nitrobenzene	40.000	41.612	-4.0	101	0.00
25		Isophorone	40.000	43.128	-7.8	102	0.00
26	C	2-Nitrophenol	40.000	43.773	-9.4	102	0.00
27		2,4-Dimethylphenol	40.000	41.704	-4.3	101	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.799	-4.5	102	0.00
29	C	2,4-Dichlorophenol	40.000	42.044	-5.1	102	0.00
30		1,2,4-Trichlorobenzene	40.000	40.415	-1.0	102	0.00
31		Naphthalene	40.000	40.628	-1.6	101	0.00
32		Benzoic acid	40.000	39.965	0.1	105	0.00
33		4-Chloroaniline	40.000	45.859	-14.6	104	0.00
34	C	Hexachlorobutadiene	40.000	40.372	-0.9	100	0.00
35		Caprolactam	40.000	44.104	-10.3	103	0.00
36	C	4-Chloro-3-methylphenol	40.000	42.850	-7.1	104	0.00
37		2-Methylnaphthalene	40.000	41.112	-2.8	101	0.00
38		1-Methylnaphthalene	40.000	41.122	-2.8	102	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	101	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.977	-2.4	101	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.393	-3.5	98	0.00
42	S	2,4,6-Tribromophenol	80.000	84.319	-5.4	102	0.00
43	C	2,4,6-Trichlorophenol	40.000	43.244	-8.1	102	0.00
44		2,4,5-Trichlorophenol	40.000	42.577	-6.4	103	0.00
45	S	2-Fluorobiphenyl	80.000	82.558	-3.2	100	0.00
46		1,1'-Biphenyl	40.000	41.038	-2.6	101	0.00
47		2-Chloronaphthalene	40.000	41.196	-3.0	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	45.320	-13.3	105	0.00
49		Acenaphthylene	40.000	41.742	-4.4	101	0.00
50		Dimethylphthalate	40.000	41.126	-2.8	101	0.00
51		2,6-Dinitrotoluene	40.000	42.124	-5.3	100	0.00
52	C	Acenaphthene	40.000	41.182	-3.0	101	0.00
53		3-Nitroaniline	40.000	44.191	-10.5	101	0.00
54	P	2,4-Dinitrophenol	40.000	38.780	3.0	100	0.00
55		Dibenzofuran	40.000	40.705	-1.8	101	0.00
56	P	4-Nitrophenol	40.000	41.707	-4.3	100	0.00
57		2,4-Dinitrotoluene	40.000	43.318	-8.3	102	0.00
58		Fluorene	40.000	41.173	-2.9	100	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.441	-6.1	103	0.00
60		Diethylphthalate	40.000	40.913	-2.3	99	0.00
61		4-Chlorophenyl-phenylether	40.000	41.046	-2.6	101	0.00
62		4-Nitroaniline	40.000	43.251	-8.1	101	0.00
63		Azobenzene	40.000	41.563	-3.9	101	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.750	-4.4	99	0.00
66	c	n-Nitrosodiphenylamine	40.000	41.628	-4.1	100	0.00
67		4-Bromophenyl-phenylether	40.000	41.822	-4.6	102	0.00
68		Hexachlorobenzene	40.000	41.729	-4.3	101	0.00
69		Atrazine	40.000	44.711	-11.8	99	0.00
70	C	Pentachlorophenol	40.000	44.788	-12.0	103	0.00
71		Phenanthrene	40.000	41.217	-3.0	99	0.00
72		Anthracene	40.000	41.954	-4.9	100	0.00
73		Carbazole	40.000	41.436	-3.6	99	0.00
74		Di-n-butylphthalate	40.000	42.876	-7.2	99	0.00
75	C	Fluoranthene	40.000	40.831	-2.1	99	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	97	0.00
77		Benzidine	40.000	60.311	-50.8#	107	0.00
78		Pyrene	40.000	43.174	-7.9	98	0.00
79	S	Terphenyl-d14	80.000	78.448	1.9	98	0.00
80		Butylbenzylphthalate	40.000	43.265	-8.2	99	0.00
81		Benzo(a)anthracene	40.000	42.205	-5.5	98	0.00
82		3,3'-Dichlorobenzidine	40.000	43.941	-9.9	98	0.00
83		Chrysene	40.000	41.627	-4.1	99	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.579	-11.4	99	0.00
85	c	Di-n-octyl phthalate	40.000	44.414	-11.0	100	0.00
86	I	Perylene-d12	20.000	20.000	0.0	100	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.075	-2.7	98	0.00
88		Benzo(b)fluoranthene	40.000	42.134	-5.3	99	0.00
89		Benzo(k)fluoranthene	40.000	41.512	-3.8	99	0.00
90	C	Benzo(a)pyrene	40.000	41.960	-4.9	99	0.00
91		Dibenzo(a,h)anthracene	40.000	41.651	-4.1	98	0.00
92		Benzo(g,h,i)perylene	40.000	40.986	-2.5	99	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
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ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

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

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

Raw Data

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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

Raw Data

Alliance TECHNICAL GROUP

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

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

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

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

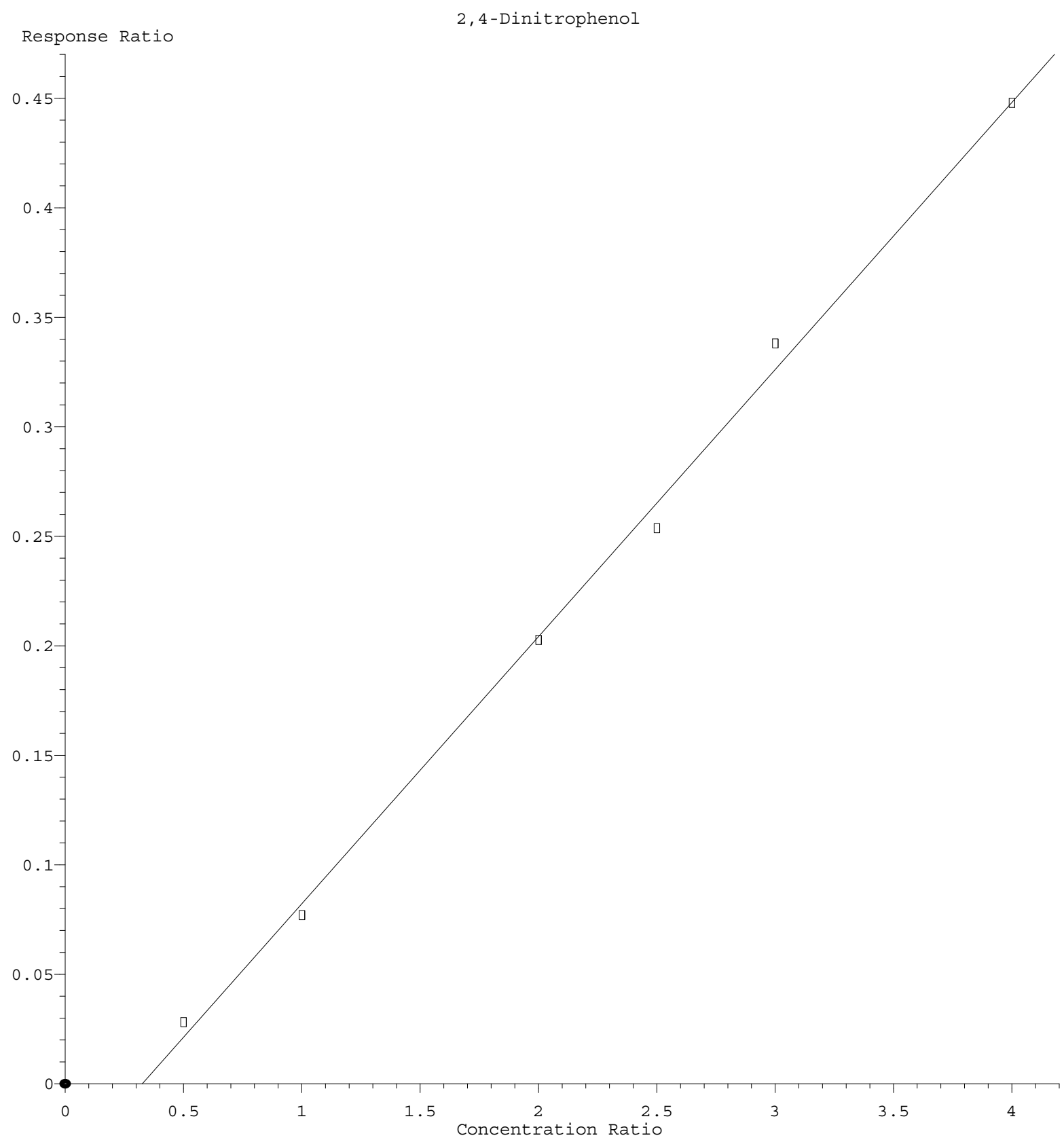
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

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

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

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

(#) = Out of Range



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

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

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

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

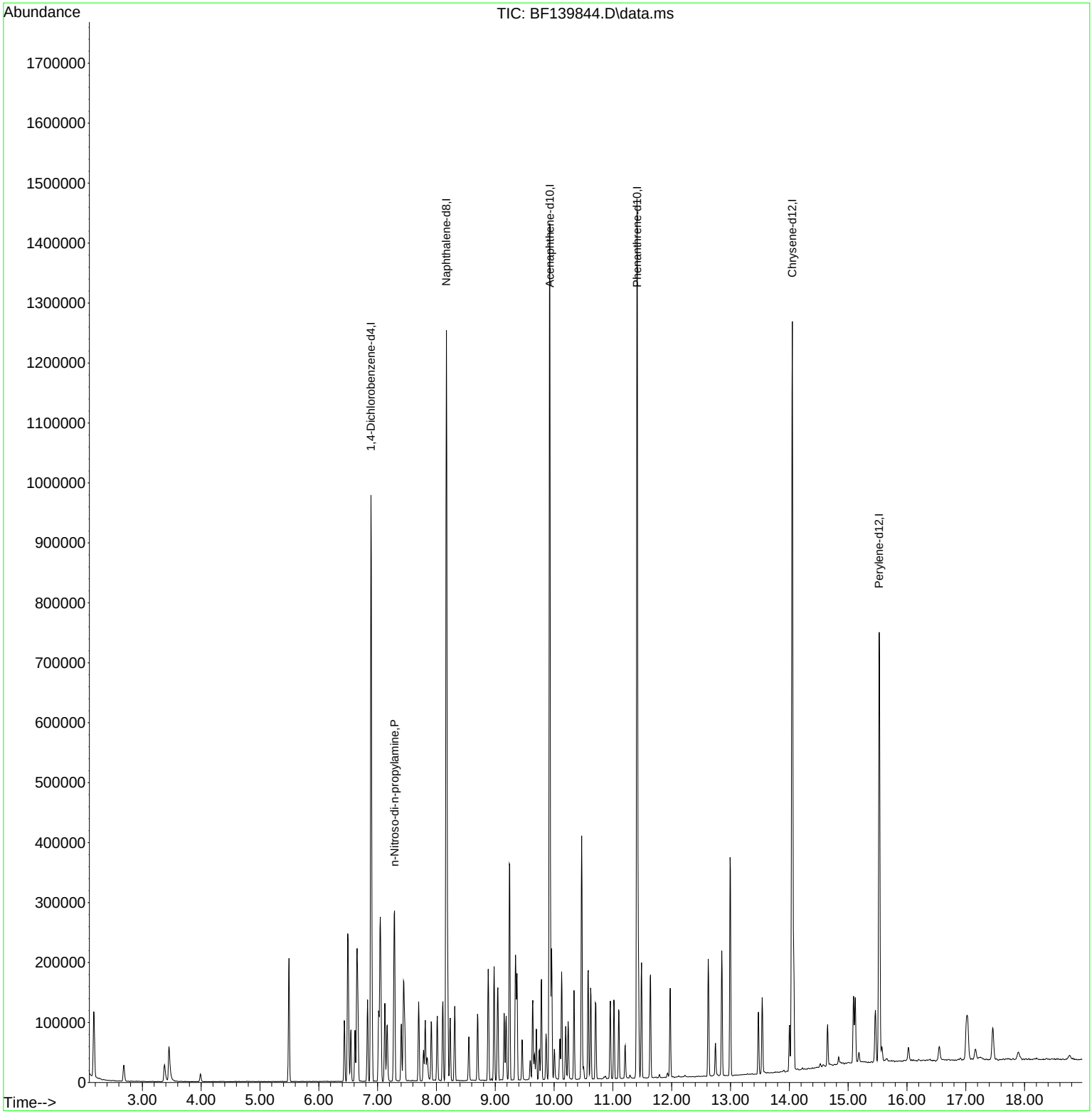
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

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



ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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

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

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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

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

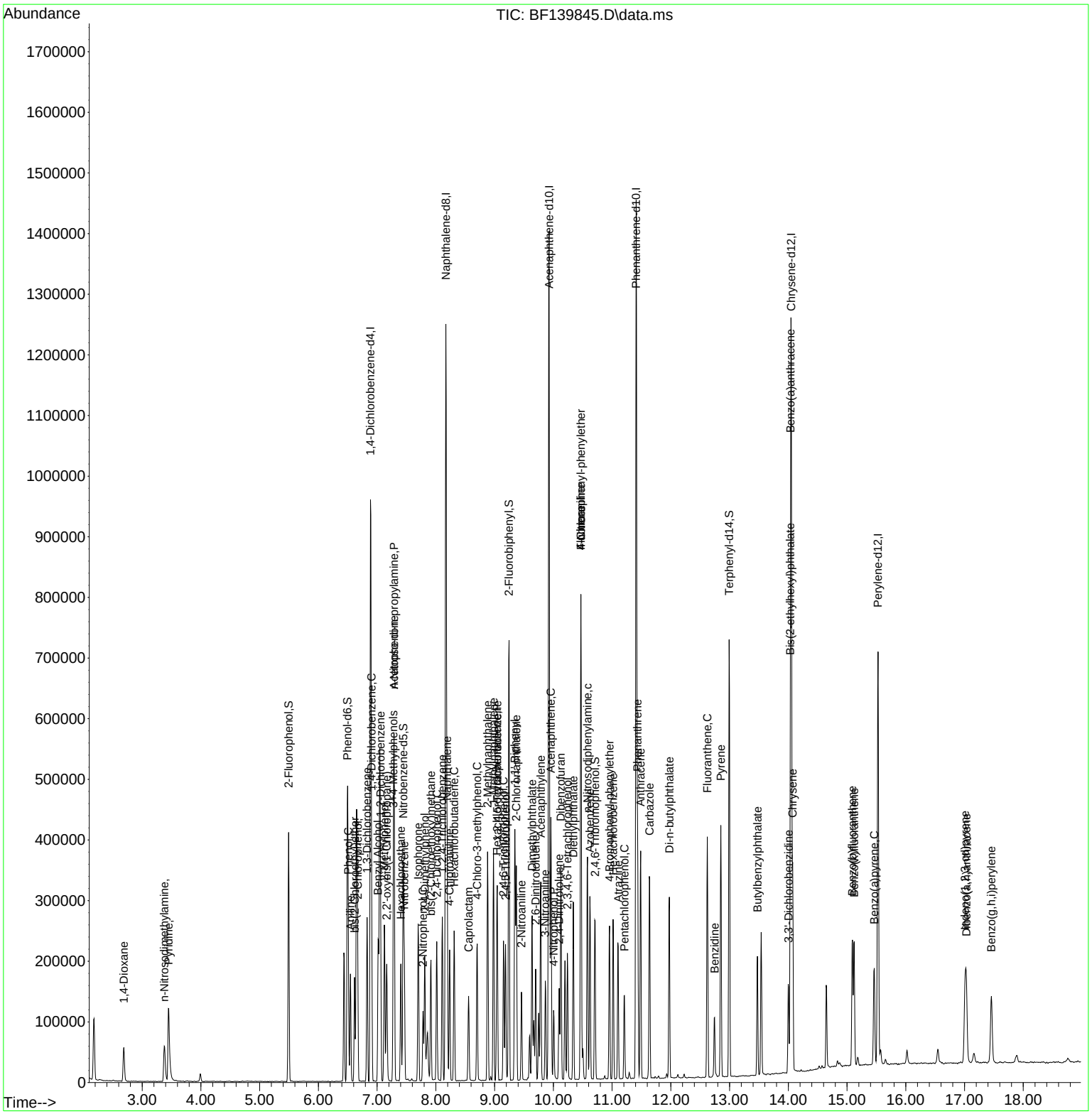
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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



ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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

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

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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

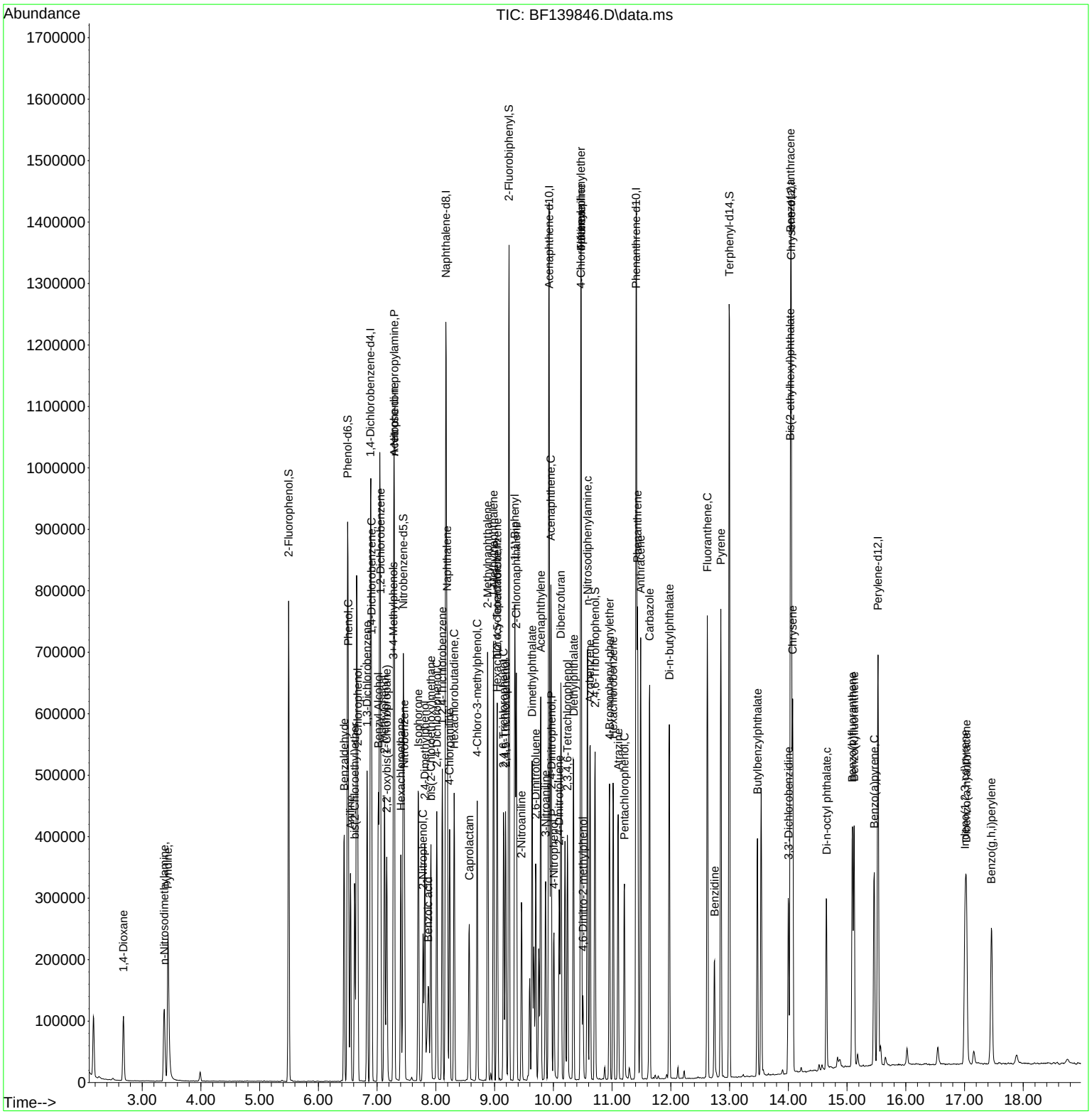
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	87482	10.787	ng		100
46) 1,1'-Biphenyl	9.345	154	316146	11.035	ng		99
47) 2-Chloronaphthalene	9.369	162	252140	10.927	ng		98
48) 2-Nitroaniline	9.457	65	65425	9.270	ng		98
49) Acenaphthylene	9.787	152	361398	10.833	ng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

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

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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



Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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

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

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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

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

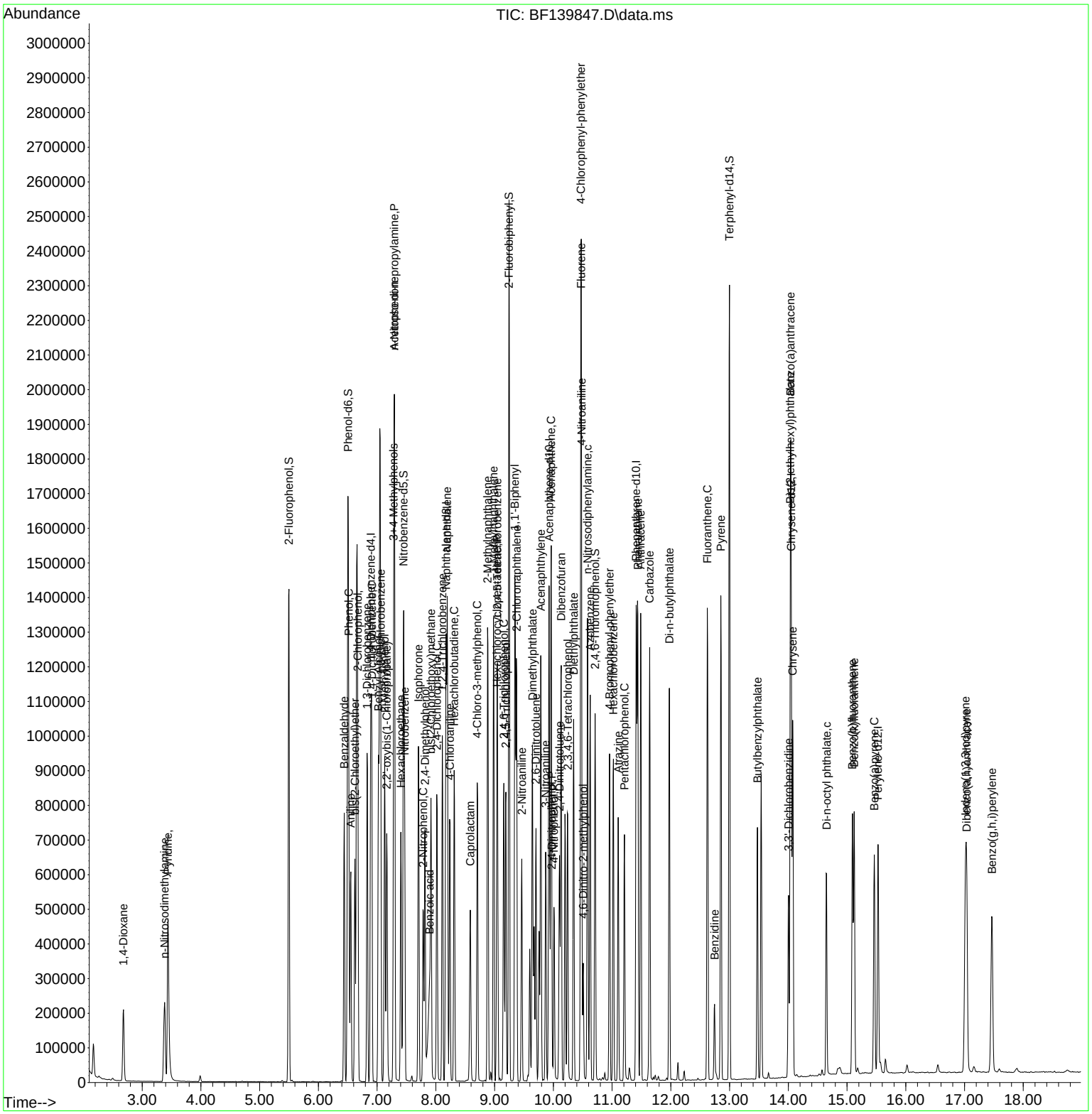
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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



Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

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

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

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

ICAL Form

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

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

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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

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

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

ICAL Form

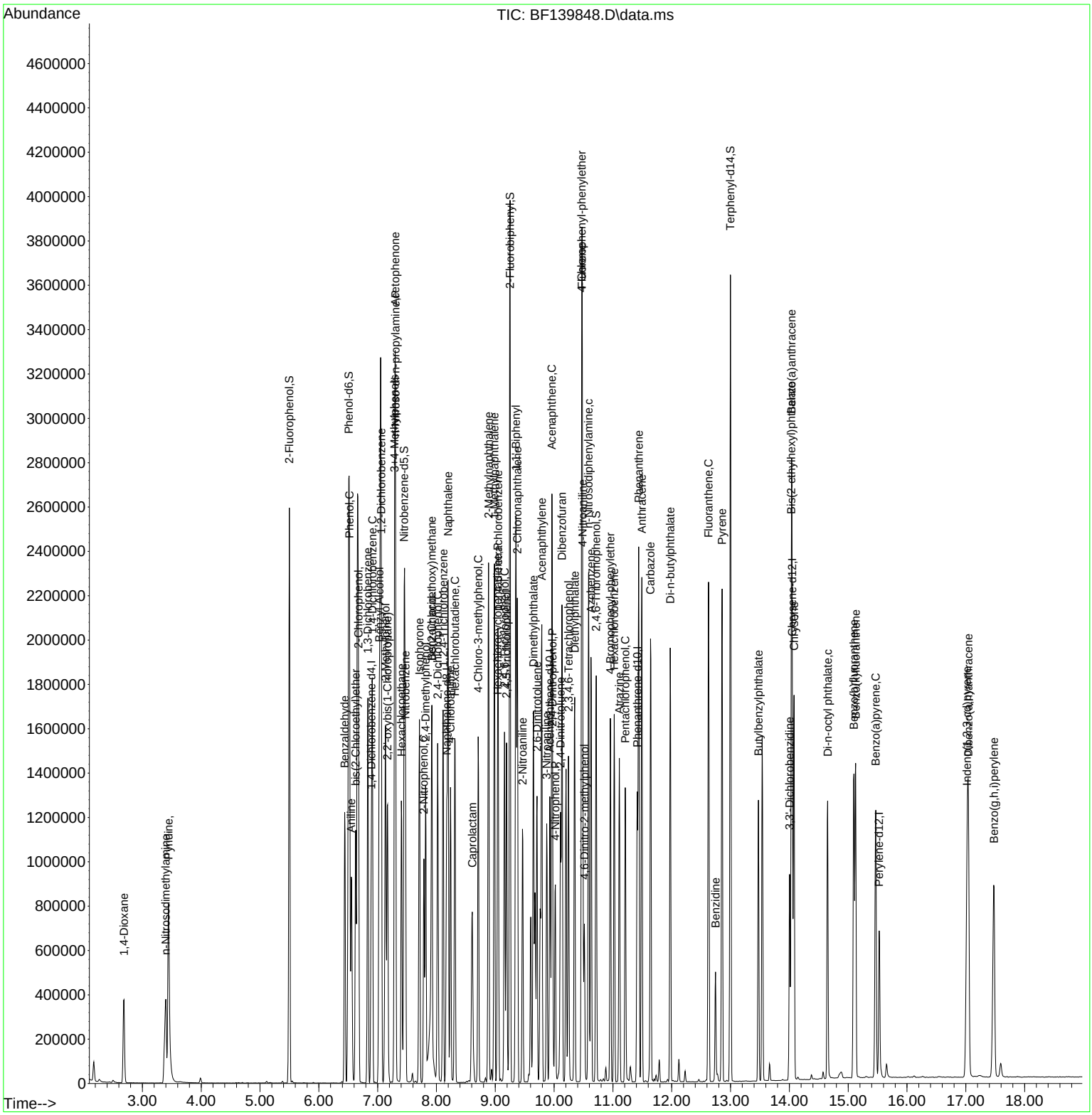
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

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

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

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

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

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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

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

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

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

ICAL Form

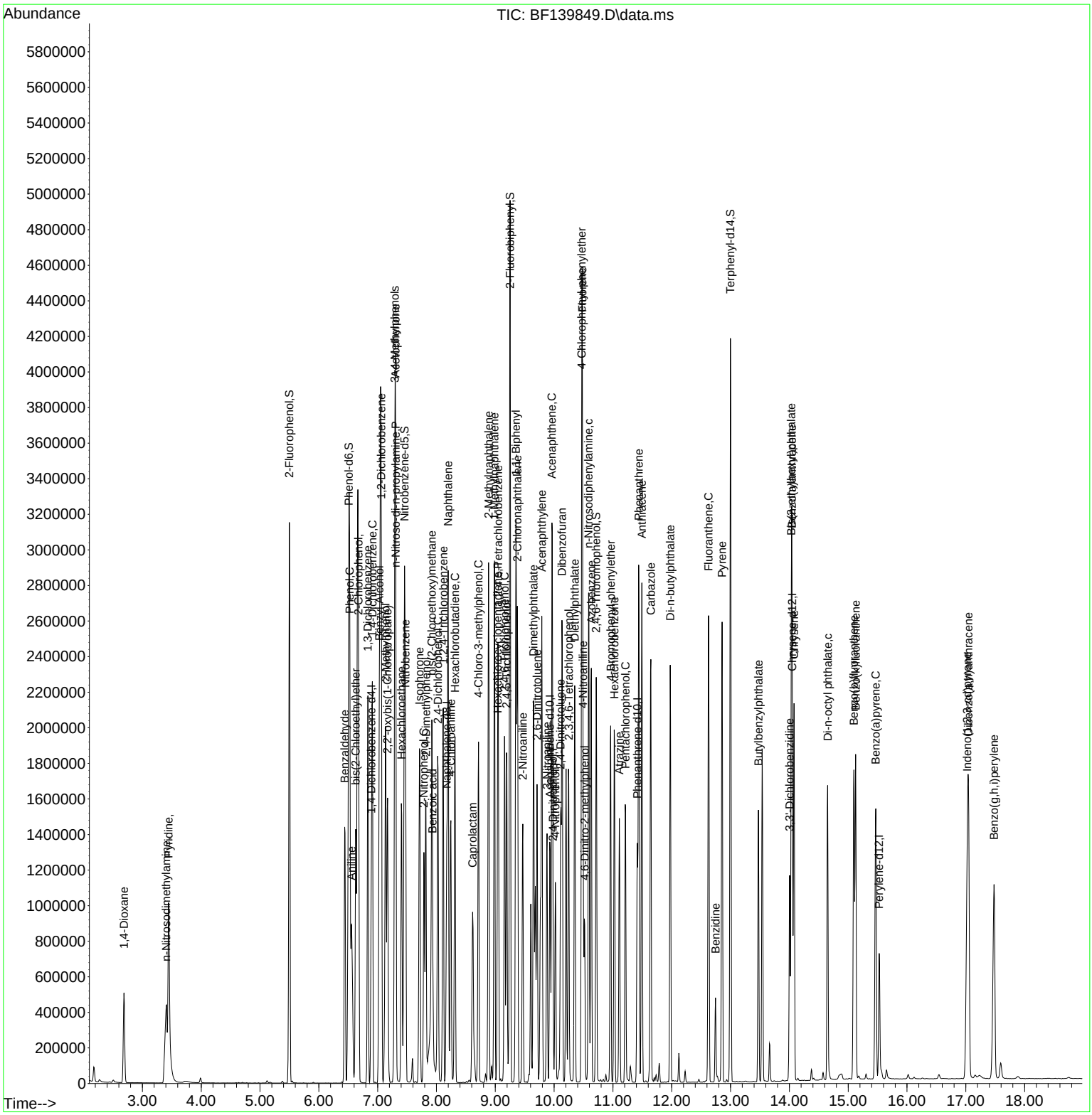
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

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

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

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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

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

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

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

ICAL Form

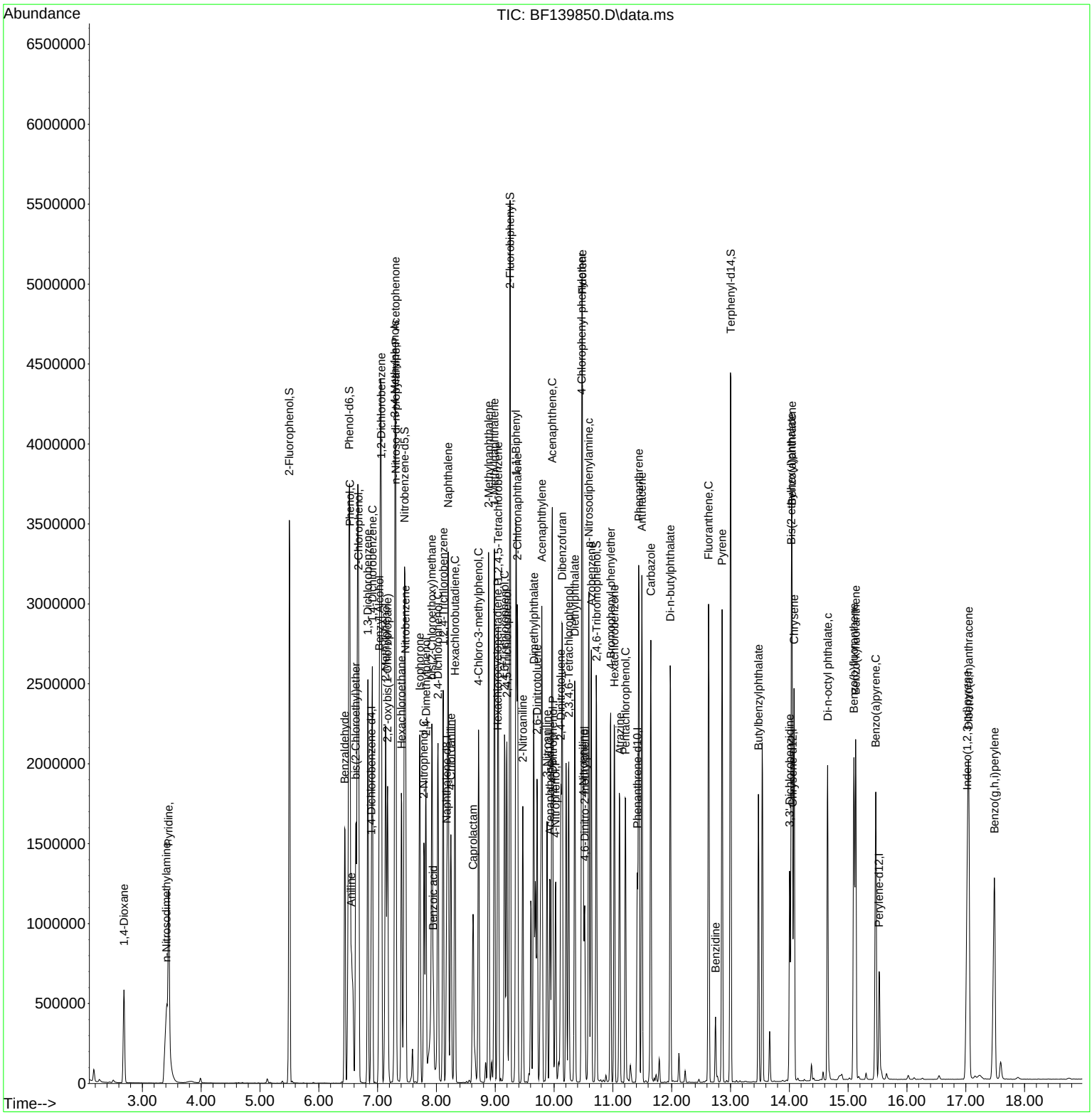
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

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



Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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

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

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

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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

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

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

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

ICAL Form

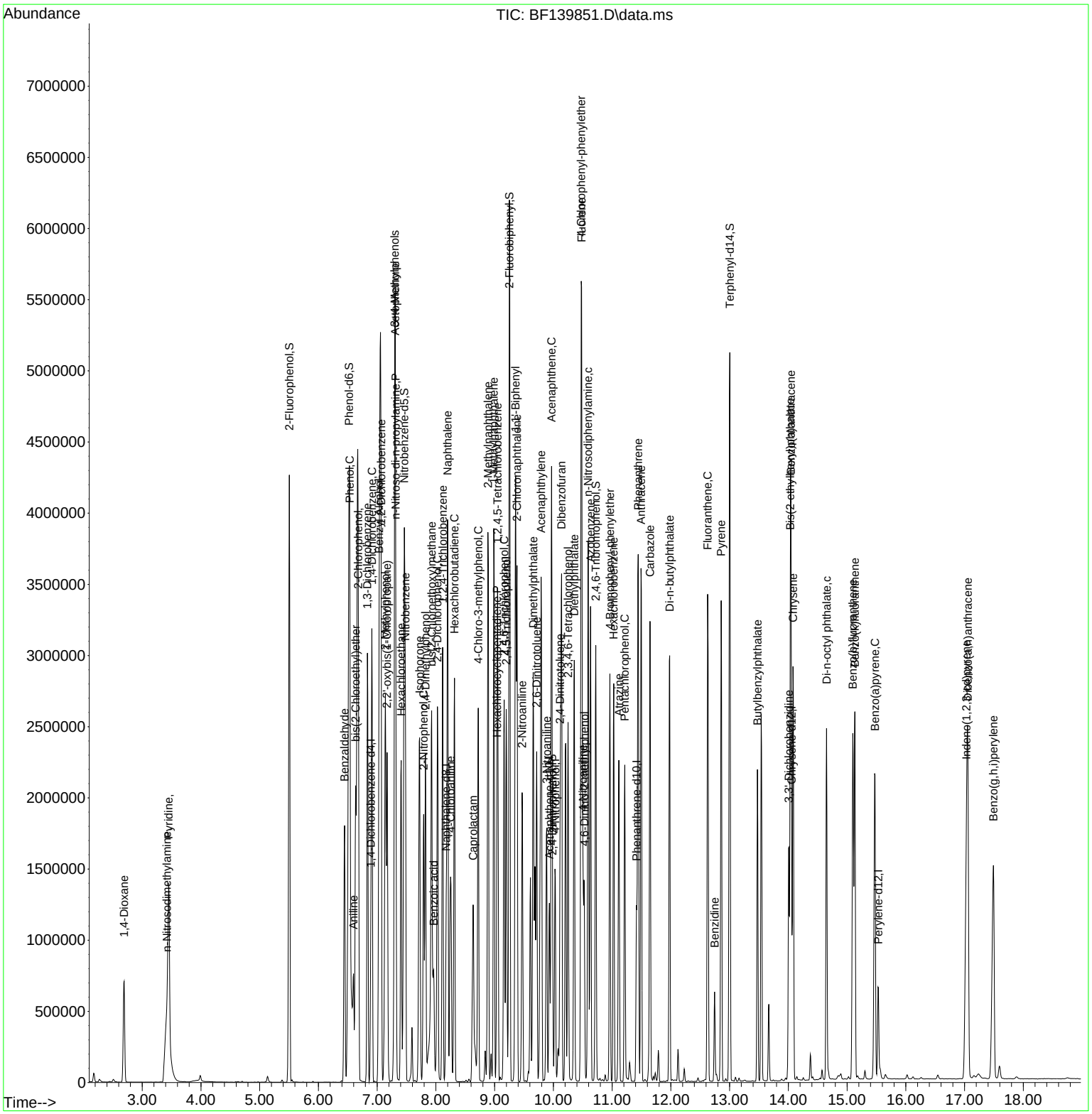
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/01/2024 09:41

Lab File ID: BE101444.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.168		2.4	
Benzaldehyde	0.764	0.819		7.2	
Phenol-d6	1.582	1.589		0.4	
Phenol	1.717	1.748		1.8	20.0
bis(2-Chloroethyl)ether	1.408	1.191		-15.4	
2-Chlorophenol	1.369	1.347		-1.6	
2-Methylphenol	1.162	1.098		-5.5	
2,2-oxybis(1-Chloropropane)	1.772	1.597		-9.9	
Acetophenone	0.454	0.460		1.3	
3+4-Methylphenols	1.604	1.533		-4.4	
n-Nitroso-di-n-propylamine	1.050	1.041	0.050	-0.9	
Nitrobenzene-d5	0.318	0.323		1.6	
Hexachloroethane	0.492	0.490		-0.4	
Nitrobenzene	0.339	0.336		-0.9	
Isophorone	0.621	0.619		-0.3	
2-Nitrophenol	0.164	0.178		8.5	20.0
2,4-Dimethylphenol	0.206	0.207		0.5	
bis(2-Chloroethoxy)methane	0.377	0.366		-2.9	
2,4-Dichlorophenol	0.285	0.285		0.0	20.0
Naphthalene	1.019	0.982		-3.6	
4-Chloroaniline	0.354	0.374		5.7	
Hexachlorobutadiene	0.184	0.184		0.0	20.0
Caprolactam	0.109	0.122		11.9	
4-Chloro-3-methylphenol	0.325	0.315		-3.1	20.0
2-Methylnaphthalene	0.734	0.694		-5.4	
Hexachlorocyclopentadiene	0.166	0.170	0.050	2.4	
2,4,6-Trichlorophenol	0.346	0.360		4.0	20.0
2-Fluorobiphenyl	1.181	1.198		1.4	
2,4,5-Trichlorophenol	0.396	0.397		0.3	
1,1-Biphenyl	1.370	1.350		-1.5	
2-Chloronaphthalene	1.083	1.070		-1.2	
2-Nitroaniline	0.291	0.315		8.2	
Dimethylphthalate	1.412	1.430		1.3	
Acenaphthylene	1.601	1.626		1.6	
2,6-Dinitrotoluene	0.326	0.333		2.1	
3-Nitroaniline	0.324	0.365		12.7	
Acenaphthene	1.045	1.027		-1.7	20.0
2,4-Dinitrophenol	0.198	0.212	0.050	7.1	
4-Nitrophenol	0.297	0.320	0.050	7.7	

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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/01/2024 09:41

Lab File ID: BE101444.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.645		-1.3	
2,4-Dinitrotoluene	0.449	0.492		9.6	
Diethylphthalate	1.477	1.543		4.5	
4-Chlorophenyl-phenylether	0.692	0.681		-1.6	
Fluorene	1.394	1.395		0.1	
4-Nitroaniline	0.361	0.412		14.1	
4,6-Dinitro-2-methylphenol	0.118	0.127		7.6	
n-Nitrosodiphenylamine	0.530	0.510		-3.8	20.0
2,4,6-Tribromophenol	0.351	0.374		6.6	
4-Bromophenyl-phenylether	0.210	0.202		-3.8	
Hexachlorobenzene	0.276	0.267		-3.3	
Atrazine	0.163	0.179		9.8	
Pentachlorophenol	0.159	0.165		3.8	20.0
Phenanthrene	0.958	0.957		-0.1	
Anthracene	0.935	0.956		2.2	
Carbazole	0.957	1.014		6.0	
Di-n-butylphthalate	1.053	1.233		17.1	
Fluoranthene	1.163	1.281		10.1	20.0
Pyrene	1.100	1.127		2.5	
Terphenyl-d14	0.869	0.865		-0.5	
Butylbenzylphthalate	0.482	0.515		6.8	
3,3-Dichlorobenzidine	0.440	0.460		4.5	
Benzo(a)anthracene	1.124	1.167		3.8	
Chrysene	1.087	1.107		1.8	
Bis(2-ethylhexyl)phthalate	0.641	0.734		14.5	
Di-n-octyl phthalate	1.051	1.226		16.7	20.0
Benzo(b)fluoranthene	1.042	1.078		3.5	
Benzo(k)fluoranthene	0.974	0.983		0.9	
Benzo(a)pyrene	0.912	0.928		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.358		1.5	
Dibenzo(a,h)anthracene	1.106	1.131		2.3	
Benzo(g,h,i)perylene	1.140	1.141		0.1	
1,2,4,5-Tetrachlorobenzene	0.502	0.501		-0.2	
1,4-Dioxane	0.426	0.428		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.372		1.6	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.576	152	92171	20.000	ng	0.00
21) Naphthalene-d8	10.343	136	414792	20.000	ng	0.00
39) Acenaphthene-d10	14.186	164	283187	20.000	ng	0.00
64) Phenanthrene-d10	16.924	188	682015	20.000	ng	0.00
76) Chrysene-d12	21.090	240	817400	20.000	ng	0.01
86) Perylene-d12	23.381	264	1050286	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.326	112	430701	81.899	ng	0.00
7) Phenol-d6	6.953	99	585977	80.359	ng	0.00
23) Nitrobenzene-d5	8.786	82	535963	81.157	ng	0.00
42) 2,4,6-Tribromophenol	15.696	330	423754	85.377	ng	0.00
45) 2-Fluorobiphenyl	12.811	172	1356762	81.138	ng	0.00
79) Terphenyl-d14	19.515	244	2827349	79.610	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.205	88	78936	40.244	ng	99
3) Pyridine	3.640	79	231455	41.709	ng	99
4) n-Nitrosodimethylamine	3.557	42	87482	40.744	ng	98
6) Aniline	7.012	93	260408	46.597	ng	94
8) 2-Chlorophenol	7.218	128	248344	39.373	ng	99
9) Benzaldehyde	6.783	77	151012	42.900	ng	100
10) Phenol	6.983	94	322262	40.731	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	219628	33.838	ng	100
12) 1,3-Dichlorobenzene	7.464	146	263060	38.677	ng	99
13) 1,4-Dichlorobenzene	7.611	146	265331	38.202	ng	97
14) 1,2-Dichlorobenzene	7.940	146	260637	38.337	ng	99
15) Benzyl Alcohol	7.923	79	175265	40.322	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.081	45	294443	36.048	ng	96
17) 2-Methylphenol	8.158	107	202390	37.795	ng	99
18) Hexachloroethane	8.628	117	90406	39.859	ng	94
19) n-Nitroso-di-n-propyla...	8.375	70	191829	39.643	ng	99
20) 3+4-Methylphenols	8.499	107	282687	38.244	ng	99
22) Acetophenone	8.428	105	381379	40.494	ng	99
24) Nitrobenzene	8.828	77	278748	39.657	ng	97
25) Isophorone	9.280	82	513701	39.862	ng	99
26) 2-Nitrophenol	9.515	139	147970	43.556	ng	98
27) 2,4-Dimethylphenol	9.633	122	171474	40.111	ng	99
28) bis(2-Chloroethoxy)met...	9.779	93	303882	38.883	ng	100
29) 2,4-Dichlorophenol	10.067	162	236107	39.922	ng	99
30) 1,2,4-Trichlorobenzene	10.191	180	254586	39.515	ng	99
31) Naphthalene	10.390	128	814969	38.556	ng	100
32) Benzoic acid	9.903	122	138806	34.377	ng	98
33) 4-Chloroaniline	10.614	127	310641	42.263	ng	99
34) Hexachlorobutadiene	10.637	225	152848	40.080	ng	100
35) Caprolactam	11.407	113	101317	44.692	ng	97
36) 4-Chloro-3-methylphenol	11.795	107	261542	38.840	ng	98
37) 2-Methylnaphthalene	11.983	142	575517	37.792	ng	100
38) 1-Methylnaphthalene	12.212	142	574662	37.810	ng	99
40) 1,2,4,5-Tetrachloroben...	12.341	216	283586	39.891	ng	100
41) Hexachlorocyclopentadiene	12.323	237	96337	41.032	ng	98
43) 2,4,6-Trichlorophenol	12.658	196	203946	41.615	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

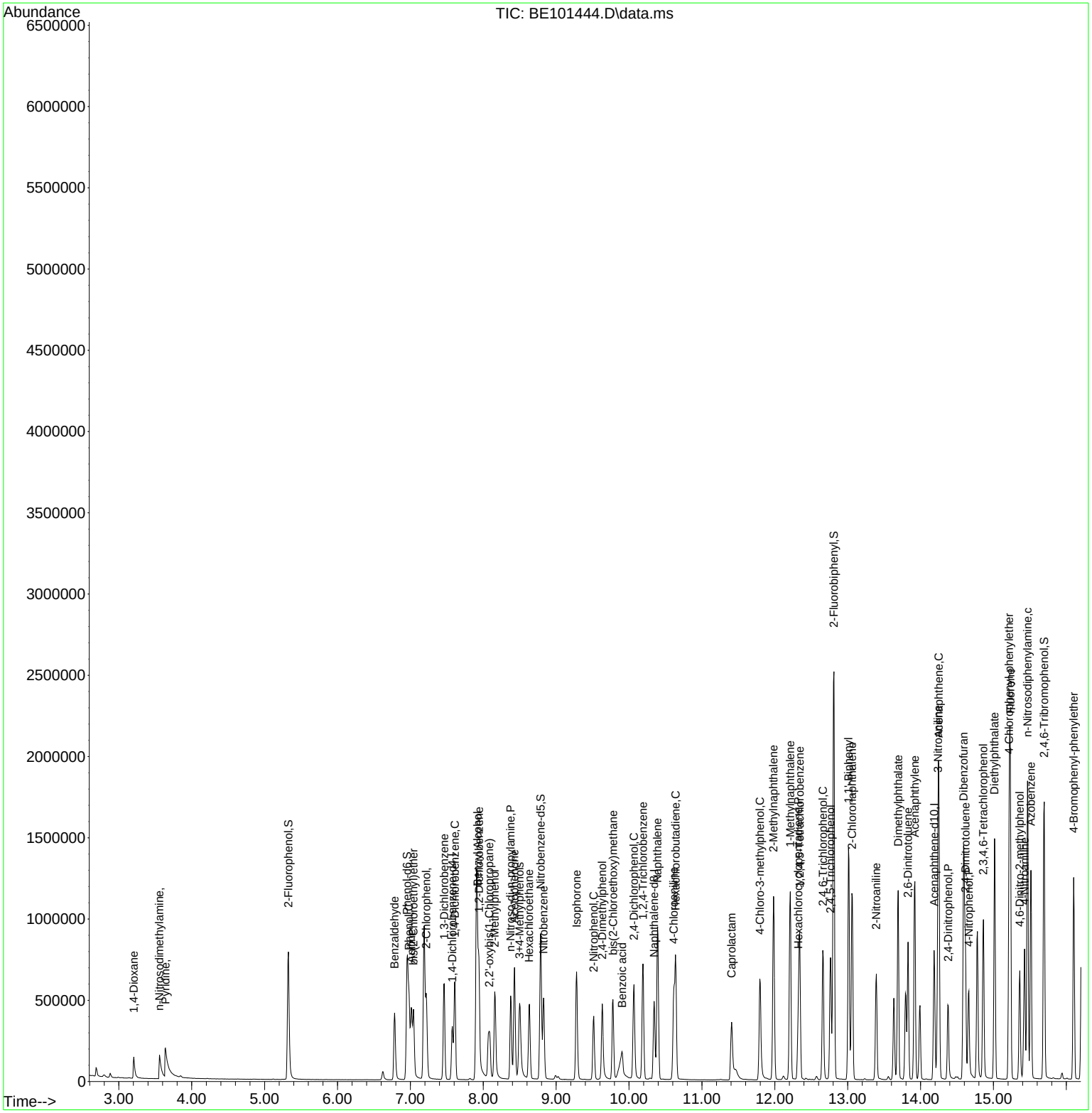
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.764	196	224768	40.050	ng	99
46) 1,1'-Biphenyl	13.011	154	764532	39.406	ng	100
47) 2-Chloronaphthalene	13.058	162	605955	39.532	ng	98
48) 2-Nitroaniline	13.393	65	178317	43.227	ng	97
49) Acenaphthylene	13.922	152	920975	40.629	ng	100
50) Dimethylphthalate	13.692	163	809849	40.514	ng	99
51) 2,6-Dinitrotoluene	13.828	165	188813	40.913	ng	99
52) Acenaphthene	14.251	154	581643	39.296	ng	99
53) 3-Nitroaniline	14.239	138	206656	45.033	ng	99
54) 2,4-Dinitrophenol	14.380	184	119821	39.592	ng	99
55) Dibenzofuran	14.591	168	931652	39.490	ng	99
56) 4-Nitrophenol	14.662	139	181298	43.141	ng	97
57) 2,4-Dinitrotoluene	14.615	165	278907	43.897	ng	97
58) Fluorene	15.232	166	790040	40.031	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.862	232	210620	40.618	ng	98
60) Diethylphthalate	15.014	149	873681	41.786	ng	100
61) 4-Chlorophenyl-phenyle...	15.214	204	385548	39.368	ng	99
62) 4-Nitroaniline	15.426	138	233088	45.645	ng	96
63) Azobenzene	15.514	77	702634	39.096	ng	99
65) 4,6-Dinitro-2-methylph...	15.361	198	173267	43.234	ng	96
66) n-Nitrosodiphenylamine	15.467	169	696125	38.489	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	274855	38.311	ng	97
68) Hexachlorobenzene	16.213	284	364053	38.714	ng	95
69) Atrazine	16.401	200	244471	44.090	ng	99
70) Pentachlorophenol	16.618	266	224938	41.556	ng	98
71) Phenanthrene	16.965	178	1305607	39.983	ng	98
72) Anthracene	17.053	178	1303476	40.881	ng	99
73) Carbazole	17.382	167	1382754	42.384	ng	98
74) Di-n-butylphthalate	17.829	149	1681771	46.825	ng	99
75) Fluoranthene	18.974	202	1747410	44.059	ng	97
77) Benzidine	19.227	184	465967	44.916	ng	99
78) Pyrene	19.339	202	1842964	41.000	ng	98
80) Butylbenzylphthalate	20.191	149	841226	42.689	ng	96
81) Benzo(a)anthracene	21.066	228	1908198	41.534	ng	97
82) 3,3'-Dichlorobenzidine	21.043	252	751552	41.759	ng	100
83) Chrysene	21.125	228	1809964	40.746	ng	97
84) Bis(2-ethylhexyl)phtha...	20.890	149	1200483	45.858	ng	99
85) Di-n-octyl phthalate	21.742	149	2003791	46.637	ng	98
87) Indeno(1,2,3-cd)pyrene	25.720	276	2852409	40.581	ng	99
88) Benzo(b)fluoranthene	22.670	252	2264745	41.377	ng	98
89) Benzo(k)fluoranthene	22.717	252	2065077	40.384	ng	97
90) Benzo(a)pyrene	23.275	252	1949398	40.724	ng	98
91) Dibenzo(a,h)anthracene	25.714	278	2376663	40.920	ng	99
92) Benzo(g,h,i)perylene	26.477	276	2396634	40.049	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDCCC040

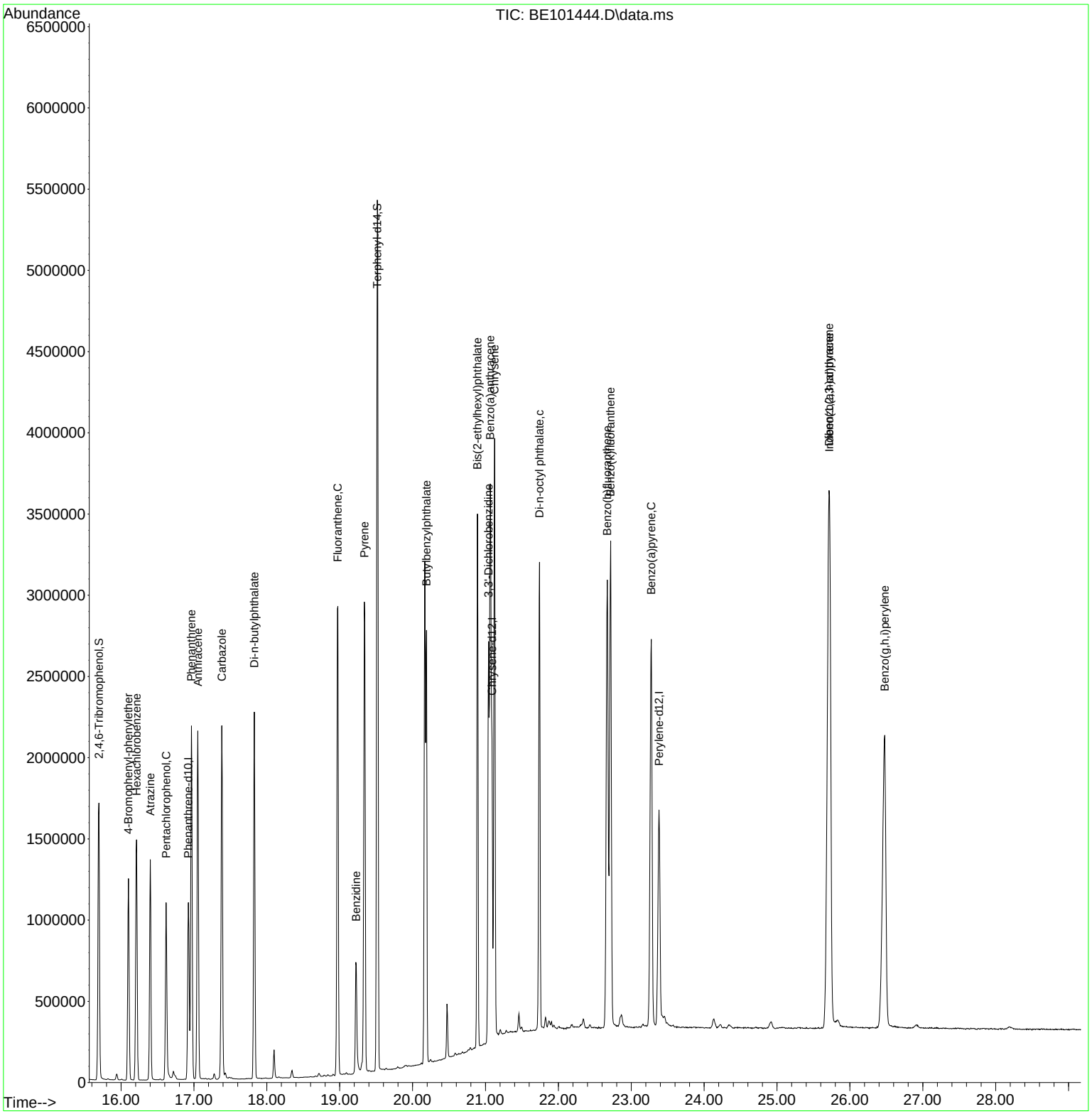
Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



Sample Results: **BE101444.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	65	0.00
2		1,4-Dioxane	40.000	40.244	-0.6	67	0.00
3		Pyridine	40.000	41.709	-4.3	69	0.00
4		n-Nitrosodimethylamine	40.000	40.744	-1.9	65	0.00
5	S	2-Fluorophenol	80.000	81.899	-2.4	66	0.00
6		Aniline	40.000	46.597	-16.5	69	0.00
7	S	Phenol-d6	80.000	80.359	-0.4	64	0.00
8		2-Chlorophenol	40.000	39.373	1.6	63	0.00
9		Benzaldehyde	40.000	42.900	-7.2	66	0.00
10	C	Phenol	40.000	40.731	-1.8	63	0.01
11		bis(2-Chloroethyl)ether	40.000	33.838	15.4	53	0.00
12		1,3-Dichlorobenzene	40.000	38.677	3.3	63	0.00
13	C	1,4-Dichlorobenzene	40.000	38.202	4.5	63	0.00
14		1,2-Dichlorobenzene	40.000	38.337	4.2	62	0.00
15		Benzyl Alcohol	40.000	40.322	-0.8	59	0.01
16		2,2'-oxybis(1-Chloropropane	40.000	36.048	9.9	58	0.00
17		2-Methylphenol	40.000	37.795	5.5	59	0.00
18		Hexachloroethane	40.000	39.859	0.4	65	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.643	0.9	59	0.00
20		3+4-Methylphenols	40.000	38.244	4.4	60	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	61	0.00
22		Acetophenone	40.000	40.494	-1.2	58	0.00
23	S	Nitrobenzene-d5	80.000	81.157	-1.4	59	0.00
24		Nitrobenzene	40.000	39.657	0.9	58	0.00
25		Isophorone	40.000	39.862	0.3	57	0.00
26	C	2-Nitrophenol	40.000	43.556	-8.9	61	0.00
27		2,4-Dimethylphenol	40.000	40.111	-0.3	59	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.883	2.8	57	0.00
29	C	2,4-Dichlorophenol	40.000	39.922	0.2	58	0.00
30		1,2,4-Trichlorobenzene	40.000	39.515	1.2	60	0.00
31		Naphthalene	40.000	38.556	3.6	57	0.00
32		Benzoic acid	40.000	34.377	14.1	52	0.01
33		4-Chloroaniline	40.000	42.263	-5.7	57	0.00
34	C	Hexachlorobutadiene	40.000	40.080	-0.2	60	0.00
35		Caprolactam	40.000	44.692	-11.7	63	0.01
36	C	4-Chloro-3-methylphenol	40.000	38.840	2.9	56	0.00
37		2-Methylnaphthalene	40.000	37.792	5.5	56	0.00
38		1-Methylnaphthalene	40.000	37.810	5.5	56	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	58	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.891	0.3	57	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.032	-2.6	56	0.00
42	S	2,4,6-Tribromophenol	80.000	85.377	-6.7	59	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.615	-4.0	56	0.00
44		2,4,5-Trichlorophenol	40.000	40.050	-0.1	55	0.01
45	S	2-Fluorobiphenyl	80.000	81.138	-1.4	56	0.00
46		1,1'-Biphenyl	40.000	39.406	1.5	55	0.00
47		2-Chloronaphthalene	40.000	39.532	1.2	56	0.00

Sample Results: **BE101444.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	43.227	-8.1	57	0.00
49		Acenaphthylene	40.000	40.629	-1.6	56	0.00
50		Dimethylphthalate	40.000	40.514	-1.3	57	0.00
51		2,6-Dinitrotoluene	40.000	40.913	-2.3	56	0.00
52	C	Acenaphthene	40.000	39.296	1.8	55	0.00
53		3-Nitroaniline	40.000	45.033	-12.6	59	0.00
54	P	2,4-Dinitrophenol	40.000	39.592	1.0	59	0.01
55		Dibenzofuran	40.000	39.490	1.3	56	0.00
56	P	4-Nitrophenol	40.000	43.141	-7.9	59	0.01
57		2,4-Dinitrotoluene	40.000	43.897	-9.7	59	0.00
58		Fluorene	40.000	40.031	-0.1	55	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.618	-1.5	56	0.00
60		Diethylphthalate	40.000	41.786	-4.5	58	0.00
61		4-Chlorophenyl-phenylether	40.000	39.368	1.6	56	0.00
62		4-Nitroaniline	40.000	45.645	-14.1	61	0.00
63		Azobenzene	40.000	39.096	2.3	54	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	61	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.234	-8.1	63	0.01
66	c	n-Nitrosodiphenylamine	40.000	38.489	3.8	56	0.00
67		4-Bromophenyl-phenylether	40.000	38.311	4.2	57	0.00
68		Hexachlorobenzene	40.000	38.714	3.2	57	0.01
69		Atrazine	40.000	44.090	-10.2	59	0.00
70	C	Pentachlorophenol	40.000	41.556	-3.9	58	0.00
71		Phenanthrene	40.000	39.983	0.0	59	0.00
72		Anthracene	40.000	40.881	-2.2	59	0.00
73		Carbazole	40.000	42.384	-6.0	62	0.00
74		Di-n-butylphthalate	40.000	46.825	-17.1	66	0.00
75	C	Fluoranthene	40.000	44.059	-10.1	65	0.01
76	I	Chrysene-d12	20.000	20.000	0.0	67	0.01
77		Benzidine	40.000	44.916	-12.3	55	0.00
78		Pyrene	40.000	41.000	-2.5	65	0.00
79	S	Terphenyl-d14	80.000	79.610	0.5	69	0.00
80		Butylbenzylphthalate	40.000	42.689	-6.7	68	0.00
81		Benzo(a)anthracene	40.000	41.534	-3.8	67	0.00
82		3,3'-Dichlorobenzidine	40.000	41.759	-4.4	64	0.00
83		Chrysene	40.000	40.746	-1.9	67	0.01
84		Bis(2-ethylhexyl)phthalate	40.000	45.858	-14.6	71	0.00
85	c	Di-n-octyl phthalate	40.000	46.637	-16.6	73	0.00
86	I	Perylene-d12	20.000	20.000	0.0	70	0.02
87		Indeno(1,2,3-cd)pyrene	40.000	40.581	-1.5	68	0.02
88		Benzo(b)fluoranthene	40.000	41.377	-3.4	68	0.01
89		Benzo(k)fluoranthene	40.000	40.384	-1.0	67	0.01
90	C	Benzo(a)pyrene	40.000	40.724	-1.8	67	0.02
91		Dibenzo(a,h)anthracene	40.000	40.920	-2.3	67	0.02
92		Benzo(g,h,i)perylene	40.000	40.049	-0.1	67	0.03

Sample Results: **BE101444.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

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

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

Sample Results: **BE101444.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	65	0.00
2		1,4-Dioxane	40.000	40.244	-0.6	67	0.00
3		Pyridine	40.000	41.709	-4.3	69	0.00
4		n-Nitrosodimethylamine	40.000	40.744	-1.9	65	0.00
5	S	2-Fluorophenol	80.000	81.899	-2.4	66	0.00
6		Aniline	40.000	46.597	-16.5	69	0.00
7	S	Phenol-d6	80.000	80.359	-0.4	64	0.00
8		2-Chlorophenol	40.000	39.373	1.6	63	0.00
9		Benzaldehyde	40.000	42.900	-7.2	66	0.00
10	C	Phenol	40.000	40.731	-1.8	63	0.01
11		bis(2-Chloroethyl)ether	40.000	33.838	15.4	53	0.00
12		1,3-Dichlorobenzene	40.000	38.677	3.3	63	0.00
13	C	1,4-Dichlorobenzene	40.000	38.202	4.5	63	0.00
14		1,2-Dichlorobenzene	40.000	38.337	4.2	62	0.00
15		Benzyl Alcohol	40.000	40.322	-0.8	59	0.01
16		2,2'-oxybis(1-Chloropropane	40.000	36.048	9.9	58	0.00
17		2-Methylphenol	40.000	37.795	5.5	59	0.00
18		Hexachloroethane	40.000	39.859	0.4	65	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.643	0.9	59	0.00
20		3+4-Methylphenols	40.000	38.244	4.4	60	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	61	0.00
22		Acetophenone	40.000	40.494	-1.2	58	0.00
23	S	Nitrobenzene-d5	80.000	81.157	-1.4	59	0.00
24		Nitrobenzene	40.000	39.657	0.9	58	0.00
25		Isophorone	40.000	39.862	0.3	57	0.00
26	C	2-Nitrophenol	40.000	43.556	-8.9	61	0.00
27		2,4-Dimethylphenol	40.000	40.111	-0.3	59	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.883	2.8	57	0.00
29	C	2,4-Dichlorophenol	40.000	39.922	0.2	58	0.00
30		1,2,4-Trichlorobenzene	40.000	39.515	1.2	60	0.00
31		Naphthalene	40.000	38.556	3.6	57	0.00
32		Benzoic acid	40.000	34.377	14.1	52	0.01
33		4-Chloroaniline	40.000	42.263	-5.7	57	0.00
34	C	Hexachlorobutadiene	40.000	40.080	-0.2	60	0.00
35		Caprolactam	40.000	44.692	-11.7	63	0.01
36	C	4-Chloro-3-methylphenol	40.000	38.840	2.9	56	0.00
37		2-Methylnaphthalene	40.000	37.792	5.5	56	0.00
38		1-Methylnaphthalene	40.000	37.810	5.5	56	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	58	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.891	0.3	57	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.032	-2.6	56	0.00
42	S	2,4,6-Tribromophenol	80.000	85.377	-6.7	59	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.615	-4.0	56	0.00
44		2,4,5-Trichlorophenol	40.000	40.050	-0.1	55	0.01
45	S	2-Fluorobiphenyl	80.000	81.138	-1.4	56	0.00
46		1,1'-Biphenyl	40.000	39.406	1.5	55	0.00
47		2-Chloronaphthalene	40.000	39.532	1.2	56	0.00

Sample Results: **BE101444.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	43.227	-8.1	57	0.00
49		Acenaphthylene	40.000	40.629	-1.6	56	0.00
50		Dimethylphthalate	40.000	40.514	-1.3	57	0.00
51		2,6-Dinitrotoluene	40.000	40.913	-2.3	56	0.00
52	C	Acenaphthene	40.000	39.296	1.8	55	0.00
53		3-Nitroaniline	40.000	45.033	-12.6	59	0.00
54	P	2,4-Dinitrophenol	40.000	39.592	1.0	59	0.01
55		Dibenzofuran	40.000	39.490	1.3	56	0.00
56	P	4-Nitrophenol	40.000	43.141	-7.9	59	0.01
57		2,4-Dinitrotoluene	40.000	43.897	-9.7	59	0.00
58		Fluorene	40.000	40.031	-0.1	55	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.618	-1.5	56	0.00
60		Diethylphthalate	40.000	41.786	-4.5	58	0.00
61		4-Chlorophenyl-phenylether	40.000	39.368	1.6	56	0.00
62		4-Nitroaniline	40.000	45.645	-14.1	61	0.00
63		Azobenzene	40.000	39.096	2.3	54	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	61	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.234	-8.1	63	0.01
66	c	n-Nitrosodiphenylamine	40.000	38.489	3.8	56	0.00
67		4-Bromophenyl-phenylether	40.000	38.311	4.2	57	0.00
68		Hexachlorobenzene	40.000	38.714	3.2	57	0.01
69		Atrazine	40.000	44.090	-10.2	59	0.00
70	C	Pentachlorophenol	40.000	41.556	-3.9	58	0.00
71		Phenanthrene	40.000	39.983	0.0	59	0.00
72		Anthracene	40.000	40.881	-2.2	59	0.00
73		Carbazole	40.000	42.384	-6.0	62	0.00
74		Di-n-butylphthalate	40.000	46.825	-17.1	66	0.00
75	C	Fluoranthene	40.000	44.059	-10.1	65	0.01
76	I	Chrysene-d12	20.000	20.000	0.0	67	0.01
77		Benzidine	40.000	44.916	-12.3	55	0.00
78		Pyrene	40.000	41.000	-2.5	65	0.00
79	S	Terphenyl-d14	80.000	79.610	0.5	69	0.00
80		Butylbenzylphthalate	40.000	42.689	-6.7	68	0.00
81		Benzo(a)anthracene	40.000	41.534	-3.8	67	0.00
82		3,3'-Dichlorobenzidine	40.000	41.759	-4.4	64	0.00
83		Chrysene	40.000	40.746	-1.9	67	0.01
84		Bis(2-ethylhexyl)phthalate	40.000	45.858	-14.6	71	0.00
85	c	Di-n-octyl phthalate	40.000	46.637	-16.6	73	0.00
86	I	Perylene-d12	20.000	20.000	0.0	70	0.02
87		Indeno(1,2,3-cd)pyrene	40.000	40.581	-1.5	68	0.02
88		Benzo(b)fluoranthene	40.000	41.377	-3.4	68	0.01
89		Benzo(k)fluoranthene	40.000	40.384	-1.0	67	0.01
90	C	Benzo(a)pyrene	40.000	40.724	-1.8	67	0.02
91		Dibenzo(a,h)anthracene	40.000	40.920	-2.3	67	0.02
92		Benzo(g,h,i)perylene	40.000	40.049	-0.1	67	0.03

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101444.D
Acq On : 1 Nov 2024 9:41
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

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

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

Raw Data: **BE101453.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/04/2024 12:49

Lab File ID: BE101453.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.142		0.1	
Benzaldehyde	0.764	0.860		12.6	
Phenol-d6	1.582	1.573		-0.6	
Phenol	1.717	1.726		0.5	20.0
bis(2-Chloroethyl)ether	1.408	1.331		-5.5	
2-Chlorophenol	1.369	1.336		-2.4	
2-Methylphenol	1.162	1.141		-1.8	
2,2-oxybis(1-Chloropropane)	1.772	1.654		-6.7	
Acetophenone	0.454	0.449		-1.1	
3+4-Methylphenols	1.604	1.572		-2.0	
n-Nitroso-di-n-propylamine	1.050	1.065	0.050	1.4	
Nitrobenzene-d5	0.318	0.321		0.9	
Hexachloroethane	0.492	0.496		0.8	
Nitrobenzene	0.339	0.336		-0.9	
Isophorone	0.621	0.634		2.1	
2-Nitrophenol	0.164	0.179		9.1	20.0
2,4-Dimethylphenol	0.206	0.206		0.0	
bis(2-Chloroethoxy)methane	0.377	0.376		-0.3	
2,4-Dichlorophenol	0.285	0.289		1.4	20.0
Naphthalene	1.019	0.990		-2.8	
4-Chloroaniline	0.354	0.367		3.7	
Hexachlorobutadiene	0.184	0.188		2.2	20.0
Caprolactam	0.109	0.110		0.9	
4-Chloro-3-methylphenol	0.325	0.320		-1.5	20.0
2-Methylnaphthalene	0.734	0.708		-3.5	
Hexachlorocyclopentadiene	0.166	0.176	0.050	6.0	
2,4,6-Trichlorophenol	0.346	0.363		4.9	20.0
2-Fluorobiphenyl	1.181	1.206		2.1	
2,4,5-Trichlorophenol	0.396	0.409		3.3	
1,1-Biphenyl	1.370	1.373		0.2	
2-Chloronaphthalene	1.083	1.082		-0.1	
2-Nitroaniline	0.291	0.312		7.2	
Dimethylphthalate	1.412	1.388		-1.7	
Acenaphthylene	1.601	1.623		1.4	
2,6-Dinitrotoluene	0.326	0.329		0.9	
3-Nitroaniline	0.324	0.338		4.3	
Acenaphthene	1.045	1.019		-2.5	20.0
2,4-Dinitrophenol	0.198	0.202	0.050	2.0	
4-Nitrophenol	0.297	0.287	0.050	-3.4	

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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/04/2024 12:49

Lab File ID: BE101453.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.629		-2.2	
2,4-Dinitrotoluene	0.449	0.464		3.3	
Diethylphthalate	1.477	1.453		-1.6	
4-Chlorophenyl-phenylether	0.692	0.673		-2.7	
Fluorene	1.394	1.357		-2.7	
4-Nitroaniline	0.361	0.363		0.6	
4,6-Dinitro-2-methylphenol	0.118	0.126		6.8	
n-Nitrosodiphenylamine	0.530	0.534		0.8	20.0
2,4,6-Tribromophenol	0.351	0.356		1.4	
4-Bromophenyl-phenylether	0.210	0.215		2.4	
Hexachlorobenzene	0.276	0.283		2.5	
Atrazine	0.163	0.168		3.1	
Pentachlorophenol	0.159	0.167		5.0	20.0
Phenanthrene	0.958	0.959		0.1	
Anthracene	0.935	0.954		2.0	
Carbazole	0.957	0.955		-0.2	
Di-n-butylphthalate	1.053	1.162		10.4	
Fluoranthene	1.163	1.186		2.0	20.0
Pyrene	1.100	1.154		4.9	
Terphenyl-d14	0.869	0.859		-1.2	
Butylbenzylphthalate	0.482	0.516		7.1	
3,3-Dichlorobenzidine	0.440	0.461		4.8	
Benzo(a)anthracene	1.124	1.162		3.4	
Chrysene	1.087	1.095		0.7	
Bis(2-ethylhexyl)phthalate	0.641	0.746		16.4	
Di-n-octyl phthalate	1.051	1.236		17.6	20.0
Benzo(b)fluoranthene	1.042	1.060		1.7	
Benzo(k)fluoranthene	0.974	0.991		1.7	
Benzo(a)pyrene	0.912	0.933		2.3	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.355		1.3	
Dibenzo(a,h)anthracene	1.106	1.127		1.9	
Benzo(g,h,i)perylene	1.140	1.151		1.0	
1,2,4,5-Tetrachlorobenzene	0.502	0.515		2.6	
1,4-Dioxane	0.426	0.408		-4.2	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.365		-0.3	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BE101453.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.570	152	101222	20.000	ng		0.00
21) Naphthalene-d8	10.343	136	465351	20.000	ng		0.00
39) Acenaphthene-d10	14.186	164	319103	20.000	ng		0.00
64) Phenanthrene-d10	16.924	188	704364	20.000	ng		0.00
76) Chrysene-d12	21.084	240	756056	20.000	ng		0.00
86) Perylene-d12	23.375	264	973527	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.320	112	462242	80.037	ng		0.00
7) Phenol-d6	6.953	99	636707	79.508	ng		0.00
23) Nitrobenzene-d5	8.786	82	598342	80.759	ng		0.00
42) 2,4,6-Tribromophenol	15.690	330	454037	81.182	ng		0.00
45) 2-Fluorobiphenyl	12.805	172	1539205	81.688	ng		0.00
79) Terphenyl-d14	19.515	244	2598151	79.092	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.204	88	82690	38.388	ng		99
3) Pyridine	3.627	79	241790	39.675	ng		99
4) n-Nitrosodimethylamine	3.557	42	96051	40.735	ng		99
6) Aniline	7.012	93	252836	41.197	ng		96
8) 2-Chlorophenol	7.217	128	270457	39.045	ng		99
9) Benzaldehyde	6.783	77	174134	45.045	ng		99
10) Phenol	6.976	94	349464	40.220	ng		98
11) bis(2-Chloroethyl)ether	7.041	93	269514m	37.811	ng		
12) 1,3-Dichlorobenzene	7.458	146	289372	38.742	ng		99
13) 1,4-Dichlorobenzene	7.605	146	294636	38.628	ng		99
14) 1,2-Dichlorobenzene	7.934	146	288014	38.576	ng		99
15) Benzyl Alcohol	7.911	79	196143	41.090	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.075	45	334813	37.325	ng		97
17) 2-Methylphenol	8.157	107	230974	39.276	ng		99
18) Hexachloroethane	8.627	117	100503	40.349	ng		98
19) n-Nitroso-di-n-propyla...	8.375	70	215528	40.558	ng		99
20) 3+4-Methylphenols	8.498	107	318173	39.196	ng		99
22) Acetophenone	8.428	105	417916	39.552	ng	#	98
24) Nitrobenzene	8.827	77	312849	39.673	ng		97
25) Isophorone	9.280	82	589978	40.807	ng		99
26) 2-Nitrophenol	9.509	139	166540	43.696	ng		98
27) 2,4-Dimethylphenol	9.626	122	192052	40.044	ng		98
28) bis(2-Chloroethoxy)met...	9.773	93	350287	39.951	ng		99
29) 2,4-Dichlorophenol	10.061	162	269334	40.593	ng		98
30) 1,2,4-Trichlorobenzene	10.185	180	287217	39.737	ng		98
31) Naphthalene	10.390	128	921012	38.838	ng		100
32) Benzoic acid	9.920	122	163037	35.605	ng		99
33) 4-Chloroaniline	10.608	127	341887	41.461	ng		99
34) Hexachlorobutadiene	10.637	225	174648	40.821	ng		99
35) Caprolactam	11.412	113	102192m	40.180	ng		
36) 4-Chloro-3-methylphenol	11.794	107	297800	39.420	ng		100
37) 2-Methylnaphthalene	11.982	142	658799	38.561	ng		99
38) 1-Methylnaphthalene	12.206	142	656370	38.494	ng		99
40) 1,2,4,5-Tetrachloroben...	12.341	216	328416	40.998	ng		100
41) Hexachlorocyclopentadiene	12.317	237	112381	42.479	ng		98
43) 2,4,6-Trichlorophenol	12.658	196	231553	41.930	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.758	196	261178	41.299	ng	98
46) 1,1'-Biphenyl	13.011	154	876021	40.070	ng	100
47) 2-Chloronaphthalene	13.058	162	690661	39.986	ng	99
48) 2-Nitroaniline	13.387	65	199038	42.819	ng	99
49) Acenaphthylene	13.915	152	1036062	40.561	ng	99
50) Dimethylphthalate	13.692	163	885770	39.325	ng	99
51) 2,6-Dinitrotoluene	13.827	165	209737	40.332	ng	99
52) Acenaphthene	14.250	154	650182	38.982	ng	99
53) 3-Nitroaniline	14.239	138	215810	41.735	ng	98
54) 2,4-Dinitrophenol	14.374	184	128638	37.986	ng	99
55) Dibenzofuran	14.591	168	1039337	39.096	ng	99
56) 4-Nitrophenol	14.656	139	183026	38.650	ng	98
57) 2,4-Dinitrotoluene	14.615	165	296439	41.405	ng	98
58) Fluorene	15.226	166	866002	38.941	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	232903	39.860	ng	98
60) Diethylphthalate	15.014	149	927278	39.358	ng	99
61) 4-Chlorophenyl-phenyle...	15.214	204	429451	38.915	ng	99
62) 4-Nitroaniline	15.425	138	231575	40.245	ng	98
63) Azobenzene	15.514	77	783619	38.694	ng	99
65) 4,6-Dinitro-2-methylph...	15.361	198	177221	42.818	ng	94
66) n-Nitrosodiphenylamine	15.467	169	752930	40.309	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	302271	40.796	ng	96
68) Hexachlorobenzene	16.207	284	398846	41.068	ng	98
69) Atrazine	16.401	200	236759	41.344	ng	99
70) Pentachlorophenol	16.618	266	235022	42.041	ng	99
71) Phenanthrene	16.965	178	1350549	40.047	ng	98
72) Anthracene	17.047	178	1344221	40.821	ng	99
73) Carbazole	17.382	167	1345498	39.933	ng	98
74) Di-n-butylphthalate	17.823	149	1636855	44.128	ng	99
75) Fluoranthene	18.968	202	1670343	40.779	ng	97
77) Benzidine	19.221	184	460885	48.031	ng	99
78) Pyrene	19.338	202	1745216	41.975	ng	97
80) Butylbenzylphthalate	20.185	149	779728	42.779	ng	99
81) Benzo(a)anthracene	21.060	228	1757333	41.354	ng	98
82) 3,3'-Dichlorobenzidine	21.036	252	697242	41.885	ng	99
83) Chrysene	21.119	228	1655817	40.300	ng	96
84) Bis(2-ethylhexyl)phtha...	20.884	149	1127539	46.566	ng	98
85) Di-n-octyl phthalate	21.736	149	1868759	47.023	ng	98
87) Indeno(1,2,3-cd)pyrene	25.713	276	2638055	40.490	ng	99
88) Benzo(b)fluoranthene	22.664	252	2063500	40.673	ng	98
89) Benzo(k)fluoranthene	22.711	252	1928650	40.690	ng	97
90) Benzo(a)pyrene	23.269	252	1815825	40.925	ng	98
91) Dibenzo(a,h)anthracene	25.707	278	2193928	40.752	ng	99
92) Benzo(g,h,i)perylene	26.465	276	2240130	40.385	ng	98

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

Sample Results: **BE101453.D**

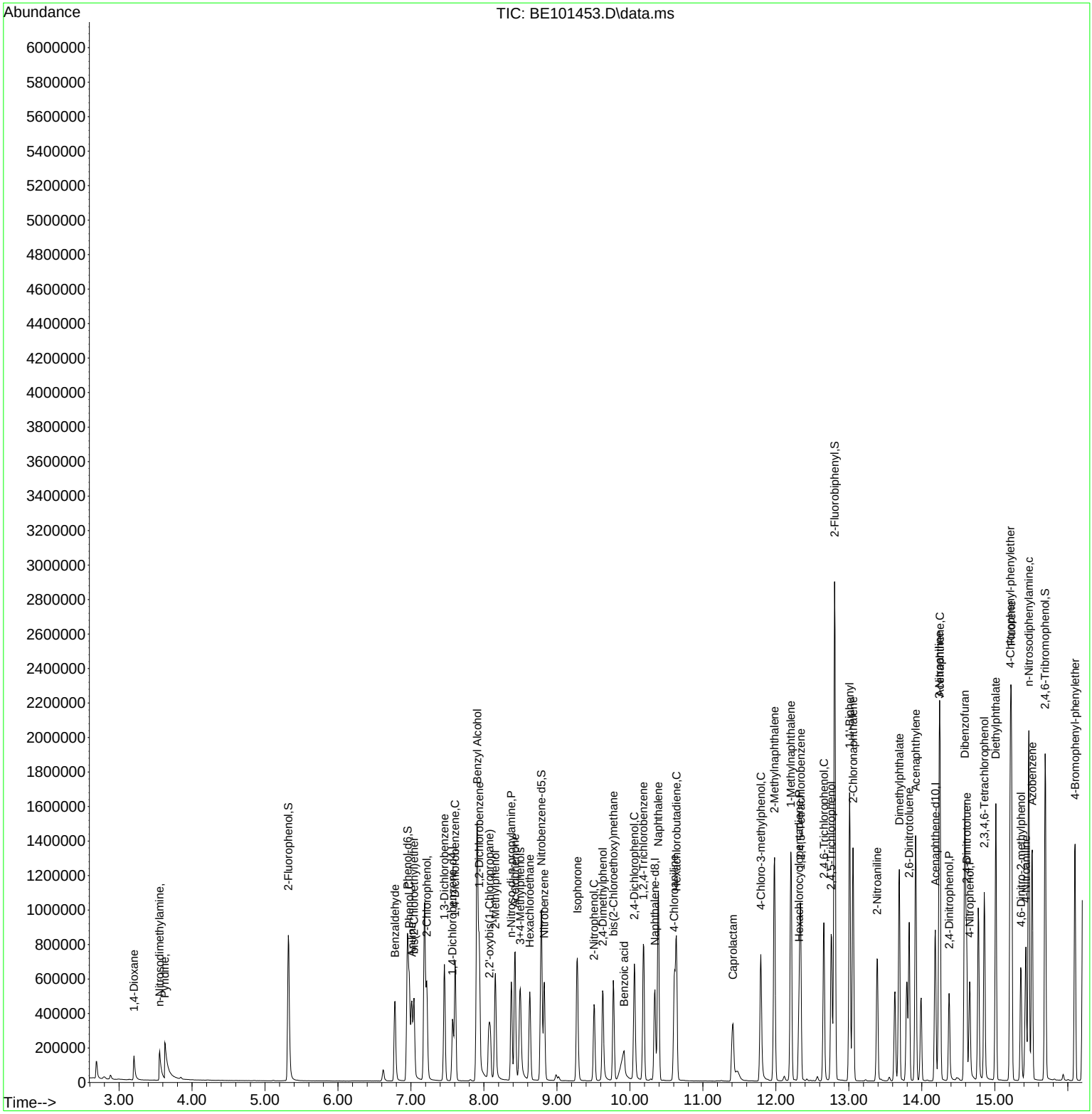
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
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Acq On : 4 Nov 2024 12:49
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Manual Integrations APPROVED

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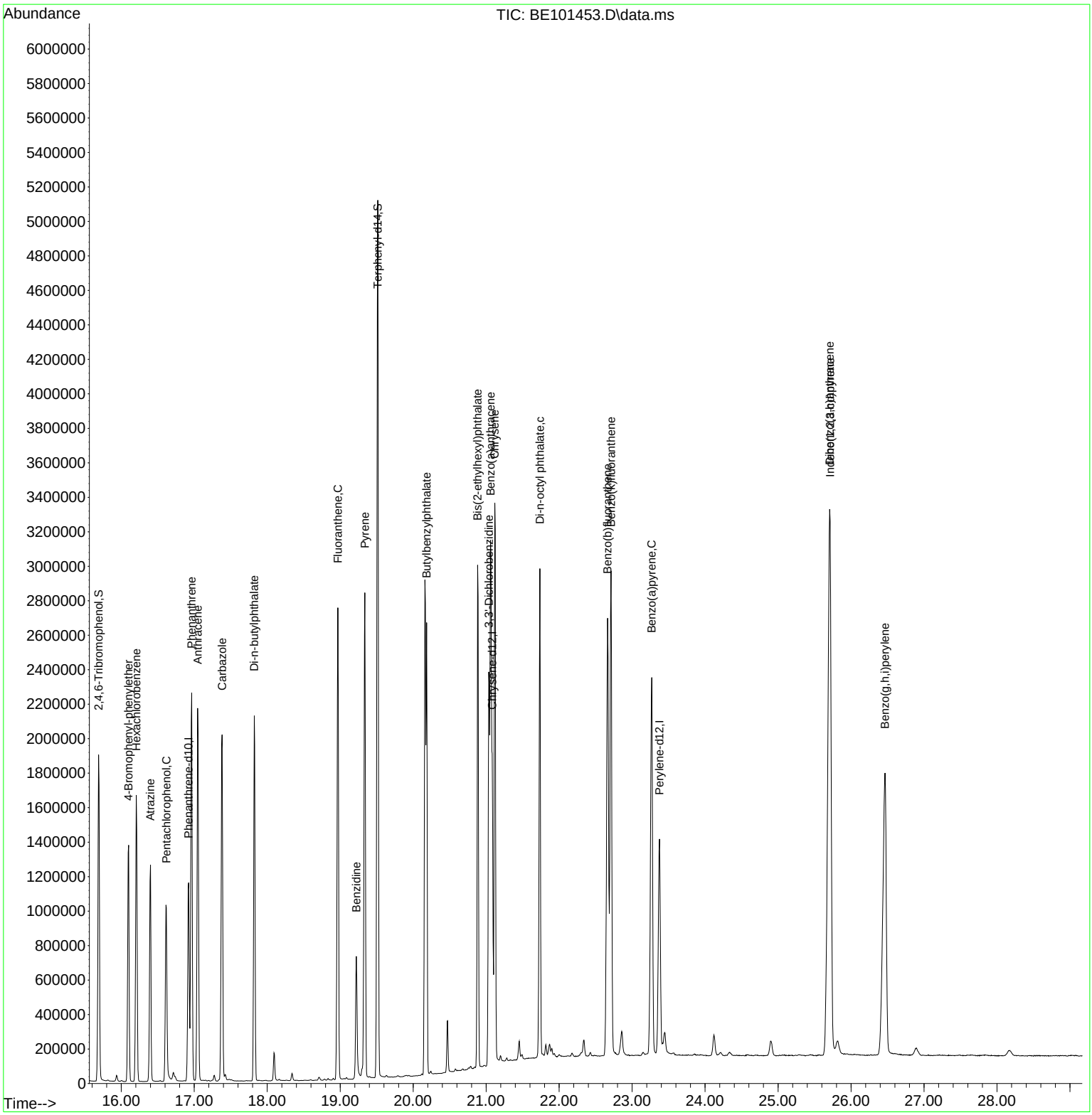


Sample Results: **BE101453.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00
2		1,4-Dioxane	0.426	0.408	4.2	70	0.00
3		Pyridine	1.204	1.194	0.8	72	-0.01
4		n-Nitrosodimethylamine	0.466	0.474	-1.7	71	0.00
5	S	2-Fluorophenol	1.141	1.142	-0.1	71	0.00
6		Aniline	1.213	1.249	-3.0	67	0.00
7	S	Phenol-d6	1.582	1.573	0.6	69	0.00
8		2-Chlorophenol	1.369	1.336	2.4	68	0.00
9		Benzaldehyde	0.764	0.860	-12.6	77	0.00
10	C	Phenol	1.717	1.726	-0.5	68	0.00
11		bis(2-Chloroethyl)ether	1.408	1.331	5.5	65	0.00
12		1,3-Dichlorobenzene	1.476	1.429	3.2	69	0.00
13	C	1,4-Dichlorobenzene	1.507	1.455	3.5	69	0.00
14		1,2-Dichlorobenzene	1.475	1.423	3.5	69	0.00
15		Benzyl Alcohol	0.943	0.969	-2.8	66	0.00
16		2,2'-oxybis(1-Chloropropane	1.772	1.654	6.7	66	0.00
17		2-Methylphenol	1.162	1.141	1.8	67	0.00
18		Hexachloroethane	0.492	0.496	-0.8	72	0.00
19	P	n-Nitroso-di-n-propylamine	1.050	1.065	-1.4	66	0.00
20		3+4-Methylphenols	1.604	1.572	2.0	67	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	68	0.00
22		Acetophenone	0.454	0.449	1.1	64	0.00
23	S	Nitrobenzene-d5	0.318	0.321	-0.9	66	0.00
24		Nitrobenzene	0.339	0.336	0.9	65	0.00
25		Isophorone	0.621	0.634	-2.1	65	0.00
26	C	2-Nitrophenol	0.164	0.179	-9.1	69	0.00
27		2,4-Dimethylphenol	0.206	0.206	0.0	66	0.00
28		bis(2-Chloroethoxy)methane	0.377	0.376	0.3	66	0.00
29	C	2,4-Dichlorophenol	0.285	0.289	-1.4	67	0.00
30		1,2,4-Trichlorobenzene	0.311	0.309	0.6	67	0.00
31		Naphthalene	1.019	0.990	2.8	65	0.00
32		Benzoic acid	0.182	0.175	3.8	61	0.03
33		4-Chloroaniline	0.354	0.367	-3.7	63	0.00
34	C	Hexachlorobutadiene	0.184	0.188	-2.2	69	0.00
35		Caprolactam	0.109	0.110	-0.9	63	0.02
36	C	4-Chloro-3-methylphenol	0.325	0.320	1.5	64	0.00
37		2-Methylnaphthalene	0.734	0.708	3.5	64	0.00
38		1-Methylnaphthalene	0.733	0.705	3.8	64	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	65	0.00
40		1,2,4,5-Tetrachlorobenzene	0.502	0.515	-2.6	65	0.00
41	P	Hexachlorocyclopentadiene	0.166	0.176	-6.0	65	0.00
42	S	2,4,6-Tribromophenol	0.351	0.356	-1.4	63	0.00
43	C	2,4,6-Trichlorophenol	0.346	0.363	-4.9	64	0.00
44		2,4,5-Trichlorophenol	0.396	0.409	-3.3	64	0.00
45	S	2-Fluorobiphenyl	1.181	1.206	-2.1	64	0.00
46		1,1'-Biphenyl	1.370	1.373	-0.2	64	0.00
47		2-Chloronaphthalene	1.083	1.082	0.1	64	0.00

Sample Results: **BE101453.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.291	0.312	-7.2	64	0.00
49		Acenaphthylene	1.601	1.623	-1.4	63	0.00
50		Dimethylphthalate	1.412	1.388	1.7	62	0.00
51		2,6-Dinitrotoluene	0.326	0.329	-0.9	62	0.00
52	C	Acenaphthene	1.045	1.019	2.5	62	0.00
53		3-Nitroaniline	0.324	0.338	-4.3	62	0.00
54	P	2,4-Dinitrophenol	0.198	0.202	-2.0	63	0.00
55		Dibenzofuran	1.666	1.629	2.2	63	0.00
56	P	4-Nitrophenol	0.297	0.287	3.4	60	0.00
57		2,4-Dinitrotoluene	0.449	0.464	-3.3	63	0.00
58		Fluorene	1.394	1.357	2.7	61	0.00
59		2,3,4,6-Tetrachlorophenol	0.366	0.365	0.3	62	0.00
60		Diethylphthalate	1.477	1.453	1.6	62	0.00
61		4-Chlorophenyl-phenylether	0.692	0.673	2.7	62	0.00
62		4-Nitroaniline	0.361	0.363	-0.6	60	0.00
63		Azobenzene	1.269	1.228	3.2	61	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	63	0.00
65		4,6-Dinitro-2-methylphenol	0.118	0.126	-6.8	64	0.01
66	c	n-Nitrosodiphenylamine	0.530	0.534	-0.8	61	0.00
67		4-Bromophenyl-phenylether	0.210	0.215	-2.4	63	0.00
68		Hexachlorobenzene	0.276	0.283	-2.5	63	0.00
69		Atrazine	0.163	0.168	-3.1	57	0.00
70	C	Pentachlorophenol	0.159	0.167	-5.0	61	0.00
71		Phenanthrene	0.958	0.959	-0.1	61	0.00
72		Anthracene	0.935	0.954	-2.0	61	0.00
73		Carbazole	0.957	0.955	0.2	60	0.00
74		Di-n-butylphthalate	1.053	1.162	-10.4	64	0.00
75	C	Fluoranthene	1.163	1.186	-2.0	62	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	62	0.00
77		Benzidine	0.254	0.305	-20.1	55	0.00
78		Pyrene	1.100	1.154	-4.9	61	0.00
79	S	Terphenyl-d14	0.869	0.859	1.2	64	0.00
80		Butylbenzylphthalate	0.482	0.516	-7.1	63	0.00
81		Benzo(a)anthracene	1.124	1.162	-3.4	62	0.00
82		3,3'-Dichlorobenzidine	0.440	0.461	-4.8	60	0.00
83		Chrysene	1.087	1.095	-0.7	61	0.00
84		Bis(2-ethylhexyl)phthalate	0.641	0.746	-16.4	67	0.00
85	c	Di-n-octyl phthalate	1.051	1.236	-17.6	68	0.00
86	I	Perylene-d12	1.000	1.000	0.0	65	0.01
87		Indeno(1,2,3-cd)pyrene	1.338	1.355	-1.3	63	0.02
88		Benzo(b)fluoranthene	1.042	1.060	-1.7	62	0.00
89		Benzo(k)fluoranthene	0.974	0.991	-1.7	63	0.00
90	C	Benzo(a)pyrene	0.912	0.933	-2.3	62	0.01
91		Dibenzo(a,h)anthracene	1.106	1.127	-1.9	62	0.02
92		Benzo(g,h,i)perylene	1.140	1.151	-1.0	63	0.02

Sample Results: **BE101453.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Sample Results: **BE101453.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	72	0.00
2		1,4-Dioxane	40.000	38.388	4.0	70	0.00
3		Pyridine	40.000	39.675	0.8	72	-0.01
4		n-Nitrosodimethylamine	40.000	40.735	-1.8	71	0.00
5	S	2-Fluorophenol	80.000	80.037	-0.0	71	0.00
6		Aniline	40.000	41.197	-3.0	67	0.00
7	S	Phenol-d6	80.000	79.508	0.6	69	0.00
8		2-Chlorophenol	40.000	39.045	2.4	68	0.00
9		Benzaldehyde	40.000	45.045	-12.6	77	0.00
10	C	Phenol	40.000	40.220	-0.5	68	0.00
11		bis(2-Chloroethyl)ether	40.000	37.811	5.5	65	0.00
12		1,3-Dichlorobenzene	40.000	38.742	3.1	69	0.00
13	C	1,4-Dichlorobenzene	40.000	38.628	3.4	69	0.00
14		1,2-Dichlorobenzene	40.000	38.576	3.6	69	0.00
15		Benzyl Alcohol	40.000	41.090	-2.7	66	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.325	6.7	66	0.00
17		2-Methylphenol	40.000	39.276	1.8	67	0.00
18		Hexachloroethane	40.000	40.349	-0.9	72	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.558	-1.4	66	0.00
20		3+4-Methylphenols	40.000	39.196	2.0	67	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	68	0.00
22		Acetophenone	40.000	39.552	1.1	64	0.00
23	S	Nitrobenzene-d5	80.000	80.759	-0.9	66	0.00
24		Nitrobenzene	40.000	39.673	0.8	65	0.00
25		Isophorone	40.000	40.807	-2.0	65	0.00
26	C	2-Nitrophenol	40.000	43.696	-9.2	69	0.00
27		2,4-Dimethylphenol	40.000	40.044	-0.1	66	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.951	0.1	66	0.00
29	C	2,4-Dichlorophenol	40.000	40.593	-1.5	67	0.00
30		1,2,4-Trichlorobenzene	40.000	39.737	0.7	67	0.00
31		Naphthalene	40.000	38.838	2.9	65	0.00
32		Benzoic acid	40.000	35.605	11.0	61	0.03
33		4-Chloroaniline	40.000	41.461	-3.7	63	0.00
34	C	Hexachlorobutadiene	40.000	40.821	-2.1	69	0.00
35		Caprolactam	40.000	40.180	-0.4	63	0.02
36	C	4-Chloro-3-methylphenol	40.000	39.420	1.4	64	0.00
37		2-Methylnaphthalene	40.000	38.561	3.6	64	0.00
38		1-Methylnaphthalene	40.000	38.494	3.8	64	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	65	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.998	-2.5	65	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.479	-6.2	65	0.00
42	S	2,4,6-Tribromophenol	80.000	81.182	-1.5	63	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.930	-4.8	64	0.00
44		2,4,5-Trichlorophenol	40.000	41.299	-3.2	64	0.00
45	S	2-Fluorobiphenyl	80.000	81.688	-2.1	64	0.00
46		1,1'-Biphenyl	40.000	40.070	-0.2	64	0.00
47		2-Chloronaphthalene	40.000	39.986	0.0	64	0.00

Sample Results: **BE101453.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	42.819	-7.0	64	0.00
49		Acenaphthylene	40.000	40.561	-1.4	63	0.00
50		Dimethylphthalate	40.000	39.325	1.7	62	0.00
51		2,6-Dinitrotoluene	40.000	40.332	-0.8	62	0.00
52	C	Acenaphthene	40.000	38.982	2.5	62	0.00
53		3-Nitroaniline	40.000	41.735	-4.3	62	0.00
54	P	2,4-Dinitrophenol	40.000	37.986	5.0	63	0.00
55		Dibenzofuran	40.000	39.096	2.3	63	0.00
56	P	4-Nitrophenol	40.000	38.650	3.4	60	0.00
57		2,4-Dinitrotoluene	40.000	41.405	-3.5	63	0.00
58		Fluorene	40.000	38.941	2.6	61	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.860	0.4	62	0.00
60		Diethylphthalate	40.000	39.358	1.6	62	0.00
61		4-Chlorophenyl-phenylether	40.000	38.915	2.7	62	0.00
62		4-Nitroaniline	40.000	40.245	-0.6	60	0.00
63		Azobenzene	40.000	38.694	3.3	61	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	63	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.818	-7.0	64	0.01
66	c	n-Nitrosodiphenylamine	40.000	40.309	-0.8	61	0.00
67		4-Bromophenyl-phenylether	40.000	40.796	-2.0	63	0.00
68		Hexachlorobenzene	40.000	41.068	-2.7	63	0.00
69		Atrazine	40.000	41.344	-3.4	57	0.00
70	C	Pentachlorophenol	40.000	42.041	-5.1	61	0.00
71		Phenanthrene	40.000	40.047	-0.1	61	0.00
72		Anthracene	40.000	40.821	-2.1	61	0.00
73		Carbazole	40.000	39.933	0.2	60	0.00
74		Di-n-butylphthalate	40.000	44.128	-10.3	64	0.00
75	C	Fluoranthene	40.000	40.779	-1.9	62	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	62	0.00
77		Benzidine	40.000	48.031	-20.1	55	0.00
78		Pyrene	40.000	41.975	-4.9	61	0.00
79	S	Terphenyl-d14	80.000	79.092	1.1	64	0.00
80		Butylbenzylphthalate	40.000	42.779	-6.9	63	0.00
81		Benzo(a)anthracene	40.000	41.354	-3.4	62	0.00
82		3,3'-Dichlorobenzidine	40.000	41.885	-4.7	60	0.00
83		Chrysene	40.000	40.300	-0.7	61	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	46.566	-16.4	67	0.00
85	c	Di-n-octyl phthalate	40.000	47.023	-17.6	68	0.00
86	I	Perylene-d12	20.000	20.000	0.0	65	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	40.490	-1.2	63	0.02
88		Benzo(b)fluoranthene	40.000	40.673	-1.7	62	0.00
89		Benzo(k)fluoranthene	40.000	40.690	-1.7	63	0.00
90	C	Benzo(a)pyrene	40.000	40.925	-2.3	62	0.01
91		Dibenzo(a,h)anthracene	40.000	40.752	-1.9	62	0.02
92		Benzo(g,h,i)perylene	40.000	40.385	-1.0	63	0.02

Sample Results: **BE101453.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101453.D
Acq On : 4 Nov 2024 12:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Nov 04 12:30:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

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

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

Raw Data: **BF140200.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.245		-2.7	
Benzaldehyde	0.931	0.962		3.3	
Phenol-d6	1.655	1.646		-0.5	
Phenol	1.706	1.707		0.1	20.0
bis(2-Chloroethyl)ether	1.319	1.336		1.3	
2-Chlorophenol	1.306	1.308		0.2	
2-Methylphenol	1.114	1.140		2.3	
2,2-oxybis(1-Chloropropane)	2.248	2.316		3.0	
Acetophenone	0.490	0.483		-1.4	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.996	0.050	-0.8	
Nitrobenzene-d5	0.361	0.401		11.1	
Hexachloroethane	0.534	0.561		5.1	
Nitrobenzene	0.396	0.419		5.8	
Isophorone	0.685	0.699		2.0	
2-Nitrophenol	0.149	0.184		23.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.031	1.035		0.4	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.205		4.1	20.0
Caprolactam	0.090	0.100		11.1	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.643		1.7	
Hexachlorocyclopentadiene	0.188	0.186	0.050	-1.1	
2,4,6-Trichlorophenol	0.382	0.399		4.4	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.403		2.3	
1,1-Biphenyl	1.392	1.370		-1.6	
2-Chloronaphthalene	1.121	1.119		-0.2	
2-Nitroaniline	0.343	0.409		19.2	
Dimethylphthalate	1.246	1.300		4.3	
Acenaphthylene	1.621	1.616		-0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.318		14.4	
Acenaphthene	1.049	1.094		4.3	20.0
2,4-Dinitrophenol	0.093	0.177	0.050	90.3	
4-Nitrophenol	0.214	0.257	0.050	20.1	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.497		-0.5	
2,4-Dinitrotoluene	0.332	0.409		23.2	
Diethylphthalate	1.223	1.283		4.9	
4-Chlorophenyl-phenylether	0.579	0.592		2.2	
Fluorene	1.146	1.175		2.5	
4-Nitroaniline	0.263	0.334		27.0	
4,6-Dinitro-2-methylphenol	0.082	0.129		57.3	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.211		12.8	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.231		-0.4	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.934		-1.2	
Anthracene	0.922	0.926		0.4	
Carbazole	0.857	0.877		2.3	
Di-n-butylphthalate	0.990	1.074		8.5	
Fluoranthene	0.955	1.027		7.5	20.0
Pyrene	1.751	1.637		-6.5	
Terphenyl-d14	1.227	1.172		-4.5	
Butylbenzylphthalate	0.525	0.656		25.0	
3,3-Dichlorobenzidine	0.380	0.424		11.6	
Benzo(a)anthracene	1.302	1.323		1.6	
Chrysene	1.194	1.237		3.6	
Bis(2-ethylhexyl)phthalate	0.589	0.869		47.5	
Di-n-octyl phthalate	1.071	1.344		25.5	20.0
Benzo(b)fluoranthene	1.218	1.286		5.6	
Benzo(k)fluoranthene	1.051	1.245		18.5	
Benzo(a)pyrene	1.002	1.068		6.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.255		-2.5	
Dibenzo(a,h)anthracene	1.073	1.035		-3.5	
Benzo(g,h,i)perylene	1.072	1.055		-1.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.508		-14.8	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF140200.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	147950	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	577069	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	331720	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	606919	20.000	ng		0.00
76) Chrysene-d12	14.080	240	388668	20.000	ng		0.03
86) Perylene-d12	15.580	264	308087	20.000	ng		0.05
System Monitoring Compounds							
5) 2-Fluorophenol	5.499	112	736495	77.930	ng		0.00
7) Phenol-d6	6.516	99	974120	79.584	ng		0.00
23) Nitrobenzene-d5	7.451	82	925105	88.850	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	279792	90.174	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1587676	79.101	ng		0.00
79) Terphenyl-d14	13.016	244	1822572	76.411	ng		0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.664	88	150204	34.088	ng		99
3) Pyridine	3.434	79	370797	33.949	ng		97
4) n-Nitrosodimethylamine	3.387	42	222121	37.852	ng	#	92
6) Aniline	6.551	93	414919	36.372	ng		100
8) 2-Chlorophenol	6.675	128	387068	40.063	ng		99
9) Benzaldehyde	6.440	77	284659	41.340	ng		99
10) Phenol	6.528	94	505138m	40.030	ng		
11) bis(2-Chloroethyl)ether	6.622	93	395369	40.536	ng		97
12) 1,3-Dichlorobenzene	6.828	146	447454	40.345	ng		99
13) 1,4-Dichlorobenzene	6.904	146	449890	40.603	ng		100
14) 1,2-Dichlorobenzene	7.057	146	418160	40.436	ng		99
15) Benzyl Alcohol	7.028	79	373415	41.589	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.157	45	685167	41.198	ng		99
17) 2-Methylphenol	7.134	107	337377	40.952	ng		99
18) Hexachloroethane	7.398	117	166034	42.021	ng		98
19) n-Nitroso-di-n-propyla...	7.298	70	294658	39.692	ng		98
20) 3+4-Methylphenols	7.287	107	412021	39.101	ng	#	88
22) Acetophenone	7.298	105	557438	39.439	ng		99
24) Nitrobenzene	7.469	77	483474	42.352	ng		99
25) Isophorone	7.704	82	806784	40.825	ng		99
26) 2-Nitrophenol	7.781	139	212827	49.419	ng		99
27) 2,4-Dimethylphenol	7.816	122	276182	38.460	ng		97
28) bis(2-Chloroethoxy)met...	7.916	93	482108	40.266	ng		100
29) 2,4-Dichlorophenol	8.022	162	331884	40.576	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	368165	40.679	ng		99
31) Naphthalene	8.193	128	1194339	40.130	ng		100
32) Benzoic acid	7.940	122	274707	43.860	ng		99
33) 4-Chloroaniline	8.240	127	385323	37.969	ng		99
34) Hexachlorobutadiene	8.304	225	236249	41.545	ng		99
35) Caprolactam	8.622	113	115423	44.380	ng		99
36) 4-Chloro-3-methylphenol	8.716	107	375904	41.505	ng		98
37) 2-Methylnaphthalene	8.881	142	741603	40.686	ng		100
38) 1-Methylnaphthalene	8.981	142	725580	40.574	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	364186	40.694	ng		100
41) Hexachlorocyclopentadiene	9.034	237	123567	39.682	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	264511	41.747	ng		100

Sample Results: **BF140200.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	267076	40.856	ng		99
46) 1,1'-Biphenyl	9.345	154	908989	39.363	ng		100
47) 2-Chloronaphthalene	9.375	162	742472	39.920	ng		100
48) 2-Nitroaniline	9.469	65	271275	47.689	ng		97
49) Acenaphthylene	9.792	152	1071903	39.864	ng		99
50) Dimethylphthalate	9.651	163	862666	41.751	ng		99
51) 2,6-Dinitrotoluene	9.716	165	202613	45.289	ng		99
52) Acenaphthene	9.963	154	725746	41.724	ng		98
53) 3-Nitroaniline	9.887	138	211048	45.745	ng		98
54) 2,4-Dinitrophenol	9.987	184	117466	64.567	ng	#	1
55) Dibenzofuran	10.139	168	993093	39.793	ng		100
56) 4-Nitrophenol	10.039	139	170483	48.031	ng		97
57) 2,4-Dinitrotoluene	10.122	165	271261	49.306	ng		96
58) Fluorene	10.481	166	779808	41.025	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	214757	41.907	ng		99
60) Diethylphthalate	10.351	149	850987	41.947	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	392561	40.895	ng		98
62) 4-Nitroaniline	10.504	138	221916	50.930	ng		96
63) Azobenzene	10.634	77	885583	41.175	ng		99
65) 4,6-Dinitro-2-methylph...	10.534	198	156728	63.309	ng		95
66) n-Nitrosodiphenylamine	10.592	169	713314	39.269	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	251648	40.248	ng		99
68) Hexachlorobenzene	11.034	284	280969	39.957	ng		99
69) Atrazine	11.122	200	201635	40.978	ng		99
70) Pentachlorophenol	11.222	266	192795	45.176	ng		100
71) Phenanthrene	11.451	178	1133808	39.549	ng		100
72) Anthracene	11.498	178	1124155	40.190	ng		100
73) Carbazole	11.657	167	1064234	40.910	ng		99
74) Di-n-butylphthalate	11.986	149	1303205	43.361	ng		100
75) Fluoranthene	12.639	202	1247084	43.031	ng		99
77) Benzidine	12.763	184	336591	52.666	ng		100
78) Pyrene	12.875	202	1272270	37.396	ng		99
80) Butylbenzylphthalate	13.492	149	510189	50.020	ng		100
81) Benzo(a)anthracene	14.069	228	1028407	40.647	ng		100
82) 3,3'-Dichlorobenzidine	14.027	252	329234	44.630	ng		100
83) Chrysene	14.104	228	961686	41.456	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	675581	59.036	ng		99
85) Di-n-octyl phthalate	14.680	149	1045098	50.210	ng		99
87) Indeno(1,2,3-cd)pyrene	17.110	276	773204	39.011	ng		99
88) Benzo(b)fluoranthene	15.139	252	792579	42.232	ng		99
89) Benzo(k)fluoranthene	15.169	252	767307	47.408	ng		99
90) Benzo(a)pyrene	15.516	252	658000	42.610	ng		100
91) Dibenzo(a,h)anthracene	17.127	278	637774	38.573	ng		99
92) Benzo(g,h,i)perylene	17.574	276	650364	39.379	ng		99

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

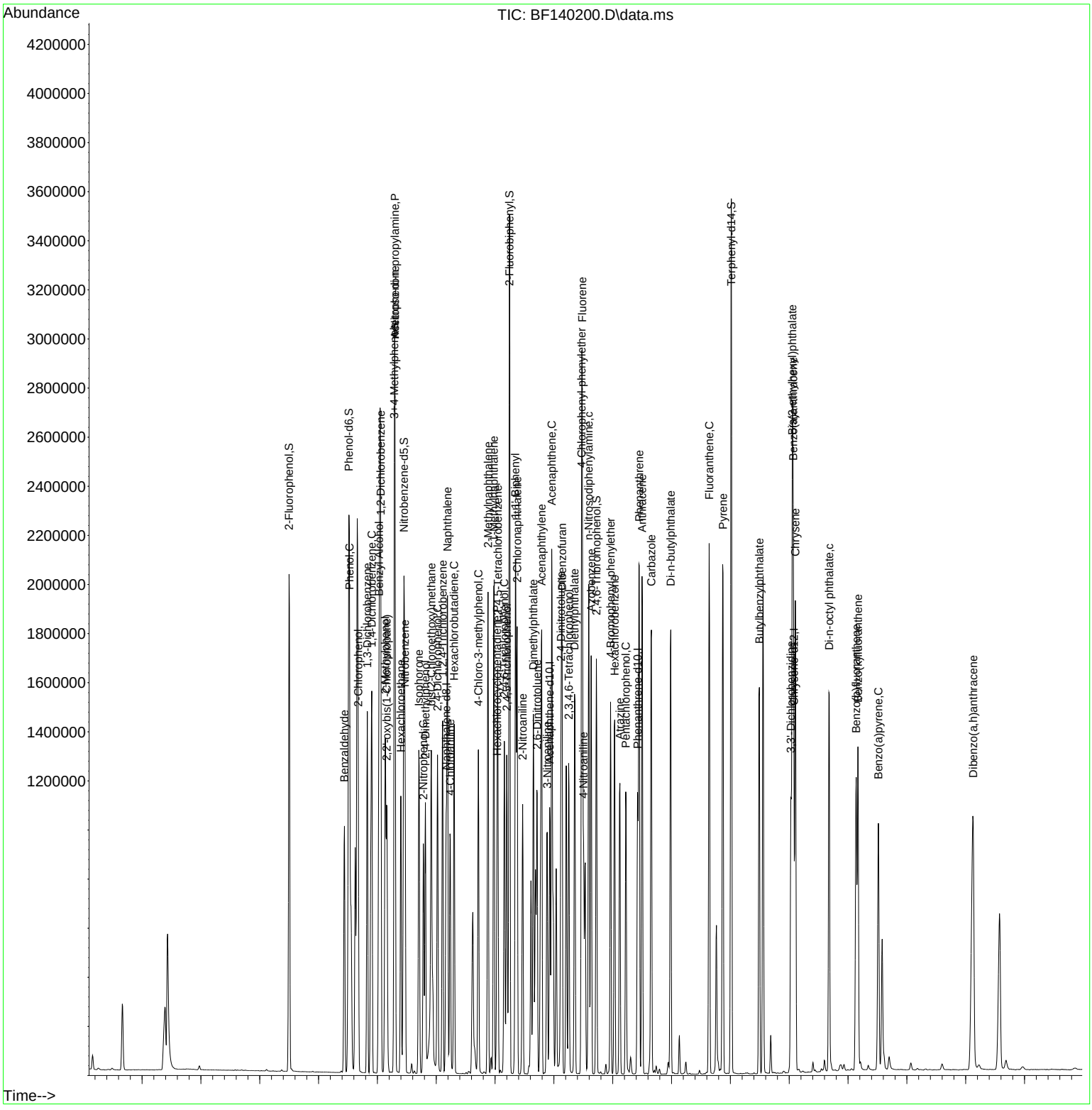
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Sample Results: **BF140200.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
2		1,4-Dioxane	0.596	0.508	14.8	70	-0.02
3		Pyridine	1.476	1.253	15.1	68	-0.01
4		n-Nitrosodimethylamine	0.793	0.751	5.3	76	-0.01
5	S	2-Fluorophenol	1.278	1.244	2.7	79	0.00
6		Aniline	1.542	1.402	9.1	72	0.00
7	S	Phenol-d6	1.655	1.646	0.5	81	0.00
8		2-Chlorophenol	1.306	1.308	-0.2	81	0.00
9		Benzaldehyde	0.931	0.962	-3.3	83	0.00
10	C	Phenol	1.706	1.707	-0.1	81	0.00
11		bis(2-Chloroethyl)ether	1.319	1.336	-1.3	84	0.00
12		1,3-Dichlorobenzene	1.499	1.512	-0.9	82	0.00
13	C	1,4-Dichlorobenzene	1.498	1.520	-1.5	83	0.00
14		1,2-Dichlorobenzene	1.398	1.413	-1.1	83	0.00
15		Benzyl Alcohol	1.214	1.262	-4.0	85	0.00
16		2,2'-oxybis(1-Chloropropane	2.248	2.316	-3.0	84	-0.01
17		2-Methylphenol	1.114	1.140	-2.3	83	0.00
18		Hexachloroethane	0.534	0.561	-5.1	84	0.00
19	P	n-Nitroso-di-n-propylamine	1.004	0.996	0.8	83	0.00
20		3+4-Methylphenols	1.424	1.392	2.2	80	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
22		Acetophenone	0.490	0.483	1.4	84	0.00
23	S	Nitrobenzene-d5	0.361	0.401	-11.1	91	0.00
24		Nitrobenzene	0.396	0.419	-5.8	87	0.00
25		Isophorone	0.685	0.699	-2.0	86	0.00
26	C	2-Nitrophenol	0.149	0.184	-23.5#	98	0.00
27		2,4-Dimethylphenol	0.249	0.239	4.0	81	0.00
28		bis(2-Chloroethoxy)methane	0.415	0.418	-0.7	85	0.00
29	C	2,4-Dichlorophenol	0.283	0.288	-1.8	85	0.00
30		1,2,4-Trichlorobenzene	0.314	0.319	-1.6	85	0.00
31		Naphthalene	1.031	1.035	-0.4	85	0.00
32		Benzoic acid	0.217	0.238	-9.7	91	0.02
33		4-Chloroaniline	0.352	0.334	5.1	80	0.00
34	C	Hexachlorobutadiene	0.197	0.205	-4.1	87	-0.01
35		Caprolactam	0.090	0.100	-11.1	91	0.01
36	C	4-Chloro-3-methylphenol	0.314	0.326	-3.8	87	0.00
37		2-Methylnaphthalene	0.632	0.643	-1.7	87	0.00
38		1-Methylnaphthalene	0.620	0.629	-1.5	86	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
40		1,2,4,5-Tetrachlorobenzene	0.540	0.549	-1.7	89	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.186	1.1	82	0.00
42	S	2,4,6-Tribromophenol	0.187	0.211	-12.8	98	0.00
43	C	2,4,6-Trichlorophenol	0.382	0.399	-4.5	90	0.00
44		2,4,5-Trichlorophenol	0.394	0.403	-2.3	88	0.00
45	S	2-Fluorobiphenyl	1.210	1.197	1.1	90	0.00
46		1,1'-Biphenyl	1.392	1.370	1.6	87	0.00
47		2-Chloronaphthalene	1.121	1.119	0.2	88	0.00

Sample Results: **BF140200.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.343	0.409	-19.2	98	0.00
49		Acenaphthylene	1.621	1.616	0.3	87	0.00
50		Dimethylphthalate	1.246	1.300	-4.3	92	0.00
51		2,6-Dinitrotoluene	0.270	0.305	-13.0	95	0.00
52	C	Acenaphthene	1.049	1.094	-4.3	92	0.00
53		3-Nitroaniline	0.278	0.318	-14.4	95	0.01
54	P	2,4-Dinitrophenol	0.093	0.177	-90.3#	153#	0.01
55		Dibenzofuran	1.505	1.497	0.5	88	0.00
56	P	4-Nitrophenol	0.214	0.257	-20.1	97	0.02
57		2,4-Dinitrotoluene	0.332	0.409	-23.2	100	0.01
58		Fluorene	1.146	1.175	-2.5	92	0.00
59		2,3,4,6-Tetrachlorophenol	0.309	0.324	-4.9	91	0.00
60		Diethylphthalate	1.223	1.283	-4.9	92	0.00
61		4-Chlorophenyl-phenylether	0.579	0.592	-2.2	91	0.00
62		4-Nitroaniline	0.263	0.334	-27.0#	106	0.02
63		Azobenzene	1.297	1.335	-2.9	89	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
65		4,6-Dinitro-2-methylphenol	0.082	0.129	-57.3#	135	0.02
66	c	n-Nitrosodiphenylamine	0.599	0.588	1.8	90	0.00
67		4-Bromophenyl-phenylether	0.206	0.207	-0.5	94	0.00
68		Hexachlorobenzene	0.232	0.231	0.4	92	0.01
69		Atrazine	0.162	0.166	-2.5	87	0.01
70	C	Pentachlorophenol	0.141	0.159	-12.8	96	0.01
71		Phenanthrene	0.945	0.934	1.2	92	0.01
72		Anthracene	0.922	0.926	-0.4	93	0.00
73		Carbazole	0.857	0.877	-2.3	95	0.02
74		Di-n-butylphthalate	0.990	1.074	-8.5	97	0.01
75	C	Fluoranthene	0.955	1.027	-7.5	100	0.01
76	I	Chrysene-d12	1.000	1.000	0.0	112	0.03
77		Benzidine	0.329	0.433	-31.6#	133	0.02
78		Pyrene	1.751	1.637	6.5	102	0.02
79	S	Terphenyl-d14	1.227	1.172	4.5	106	0.02
80		Butylbenzylphthalate	0.525	0.656	-25.0	133	0.02
81		Benzo(a)anthracene	1.302	1.323	-1.6	112	0.03
82		3,3'-Dichlorobenzidine	0.380	0.424	-11.6	123	0.02
83		Chrysene	1.194	1.237	-3.6	119	0.02
84		Bis(2-ethylhexyl)phthalate	0.589	0.869	-47.5#	156#	0.02
85	c	Di-n-octyl phthalate	1.071	1.344	-25.5#	133	0.03
86	I	Perylene-d12	1.000	1.000	0.0	84	0.05
87		Indeno(1,2,3-cd)pyrene	1.287	1.255	2.5	78	0.09
88		Benzo(b)fluoranthene	1.218	1.286	-5.6	91	0.04
89		Benzo(k)fluoranthene	1.051	1.245	-18.5	99	0.04
90	C	Benzo(a)pyrene	1.002	1.068	-6.6	88	0.05
91		Dibenzo(a,h)anthracene	1.073	1.035	3.5	78	0.08
92		Benzo(g,h,i)perylene	1.072	1.055	1.6	79	0.09

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 2

Sample Results: **BF140200.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	81	0.00
2		1,4-Dioxane	40.000	34.088	14.8	70	-0.02
3		Pyridine	40.000	33.949	15.1	68	-0.01
4		n-Nitrosodimethylamine	40.000	37.852	5.4	76	-0.01
5	S	2-Fluorophenol	80.000	77.930	2.6	79	0.00
6		Aniline	40.000	36.372	9.1	72	0.00
7	S	Phenol-d6	80.000	79.584	0.5	81	0.00
8		2-Chlorophenol	40.000	40.063	-0.2	81	0.00
9		Benzaldehyde	40.000	41.340	-3.4	83	0.00
10	C	Phenol	40.000	40.030	-0.1	81	0.00
11		bis(2-Chloroethyl)ether	40.000	40.536	-1.3	84	0.00
12		1,3-Dichlorobenzene	40.000	40.345	-0.9	82	0.00
13	C	1,4-Dichlorobenzene	40.000	40.603	-1.5	83	0.00
14		1,2-Dichlorobenzene	40.000	40.436	-1.1	83	0.00
15		Benzyl Alcohol	40.000	41.589	-4.0	85	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	41.198	-3.0	84	-0.01
17		2-Methylphenol	40.000	40.952	-2.4	83	0.00
18		Hexachloroethane	40.000	42.021	-5.1	84	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.692	0.8	83	0.00
20		3+4-Methylphenols	40.000	39.101	2.2	80	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	84	0.00
22		Acetophenone	40.000	39.439	1.4	84	0.00
23	S	Nitrobenzene-d5	80.000	88.850	-11.1	91	0.00
24		Nitrobenzene	40.000	42.352	-5.9	87	0.00
25		Isophorone	40.000	40.825	-2.1	86	0.00
26	C	2-Nitrophenol	40.000	49.419	-23.5#	98	0.00
27		2,4-Dimethylphenol	40.000	38.460	3.8	81	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.266	-0.7	85	0.00
29	C	2,4-Dichlorophenol	40.000	40.576	-1.4	85	0.00
30		1,2,4-Trichlorobenzene	40.000	40.679	-1.7	85	0.00
31		Naphthalene	40.000	40.130	-0.3	85	0.00
32		Benzoic acid	40.000	43.860	-9.6	91	0.02
33		4-Chloroaniline	40.000	37.969	5.1	80	0.00
34	C	Hexachlorobutadiene	40.000	41.545	-3.9	87	-0.01
35		Caprolactam	40.000	44.380	-11.0	91	0.01
36	C	4-Chloro-3-methylphenol	40.000	41.505	-3.8	87	0.00
37		2-Methylnaphthalene	40.000	40.686	-1.7	87	0.00
38		1-Methylnaphthalene	40.000	40.574	-1.4	86	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	87	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.694	-1.7	89	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.682	0.8	82	0.00
42	S	2,4,6-Tribromophenol	80.000	90.174	-12.7	98	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.747	-4.4	90	0.00
44		2,4,5-Trichlorophenol	40.000	40.856	-2.1	88	0.00
45	S	2-Fluorobiphenyl	80.000	79.101	1.1	90	0.00
46		1,1'-Biphenyl	40.000	39.363	1.6	87	0.00
47		2-Chloronaphthalene	40.000	39.920	0.2	88	0.00

Sample Results: **BF140200.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	47.689	-19.2	98	0.00
49		Acenaphthylene	40.000	39.864	0.3	87	0.00
50		Dimethylphthalate	40.000	41.751	-4.4	92	0.00
51		2,6-Dinitrotoluene	40.000	45.289	-13.2	95	0.00
52	C	Acenaphthene	40.000	41.724	-4.3	92	0.00
53		3-Nitroaniline	40.000	45.745	-14.4	95	0.01
54	P	2,4-Dinitrophenol	40.000	64.567	-61.4#	153	0.01
55		Dibenzofuran	40.000	39.793	0.5	88	0.00
56	P	4-Nitrophenol	40.000	48.031	-20.1	97	0.02
57		2,4-Dinitrotoluene	40.000	49.306	-23.3	100	0.01
58		Fluorene	40.000	41.025	-2.6	92	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.907	-4.8	91	0.00
60		Diethylphthalate	40.000	41.947	-4.9	92	0.00
61		4-Chlorophenyl-phenylether	40.000	40.895	-2.2	91	0.00
62		4-Nitroaniline	40.000	50.930	-27.3#	106	0.02
63		Azobenzene	40.000	41.175	-2.9	89	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	91	0.00
65		4,6-Dinitro-2-methylphenol	40.000	63.309	-58.3#	135	0.02
66	c	n-Nitrosodiphenylamine	40.000	39.269	1.8	90	0.00
67		4-Bromophenyl-phenylether	40.000	40.248	-0.6	94	0.00
68		Hexachlorobenzene	40.000	39.957	0.1	92	0.01
69		Atrazine	40.000	40.978	-2.4	87	0.01
70	C	Pentachlorophenol	40.000	45.176	-12.9	96	0.01
71		Phenanthrene	40.000	39.549	1.1	92	0.01
72		Anthracene	40.000	40.190	-0.5	93	0.00
73		Carbazole	40.000	40.910	-2.3	95	0.02
74		Di-n-butylphthalate	40.000	43.361	-8.4	97	0.01
75	C	Fluoranthene	40.000	43.031	-7.6	100	0.01
76	I	Chrysene-d12	20.000	20.000	0.0	112	0.03
77		Benzidine	40.000	52.666	-31.7#	133	0.02
78		Pyrene	40.000	37.396	6.5	102	0.02
79	S	Terphenyl-d14	80.000	76.411	4.5	106	0.02
80		Butylbenzylphthalate	40.000	50.020	-25.1#	133	0.02
81		Benzo(a)anthracene	40.000	40.647	-1.6	112	0.03
82		3,3'-Dichlorobenzidine	40.000	44.630	-11.6	123	0.02
83		Chrysene	40.000	41.456	-3.6	119	0.02
84		Bis(2-ethylhexyl)phthalate	40.000	59.036	-47.6#	156	0.02
85	c	Di-n-octyl phthalate	40.000	50.210	-25.5#	133	0.03
86	I	Perylene-d12	20.000	20.000	0.0	84	0.05
87		Indeno(1,2,3-cd)pyrene	40.000	39.011	2.5	78	0.09
88		Benzo(b)fluoranthene	40.000	42.232	-5.6	91	0.04
89		Benzo(k)fluoranthene	40.000	47.408	-18.5	99	0.04
90	C	Benzo(a)pyrene	40.000	42.610	-6.5	88	0.05
91		Dibenzo(a,h)anthracene	40.000	38.573	3.6	78	0.08
92		Benzo(g,h,i)perylene	40.000	39.379	1.6	79	0.09

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

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

(#) = Out of Range SPCC's out = 0 CCC's out = 2

QC SAMPLE DATA

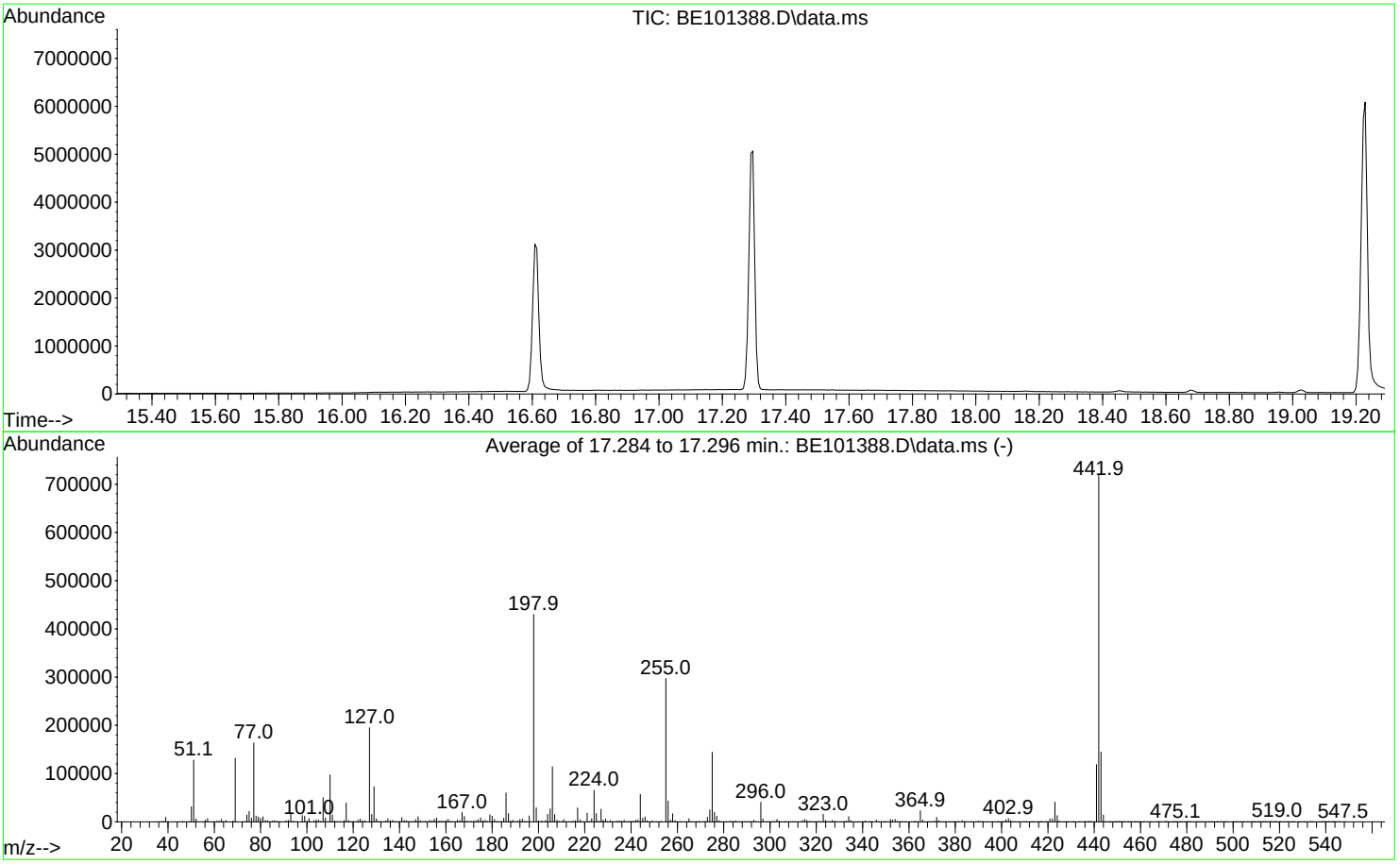
Sample Results: **BE101388.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024



AutoFind: Scans 2501, 2502, 2503; Background Corrected with Scan 2494

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.8	128023	PASS
68	69	0.00	2	1.5	1984	PASS
69	198	0.00	100	30.7	132146	PASS
70	69	0.00	2	0.1	198	PASS
127	198	10	80	45.4	195155	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	430187	PASS
199	198	5	9	6.7	28884	PASS
275	198	10	60	33.5	144206	PASS
365	198	1	100	5.4	23020	PASS
441	198	0.01	100	27.6	118563	PASS
442	442	50	100	100.0	720425	PASS
443	442	15	24	20.1	144667	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/28/2024	BNA_E	BE101388.D
Compound Name	**Response**	**Retention Time**
DDT	1836699	20.351
DDD	25787	19.916
DDE	1987	19.405
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
27774	1864473	1.49

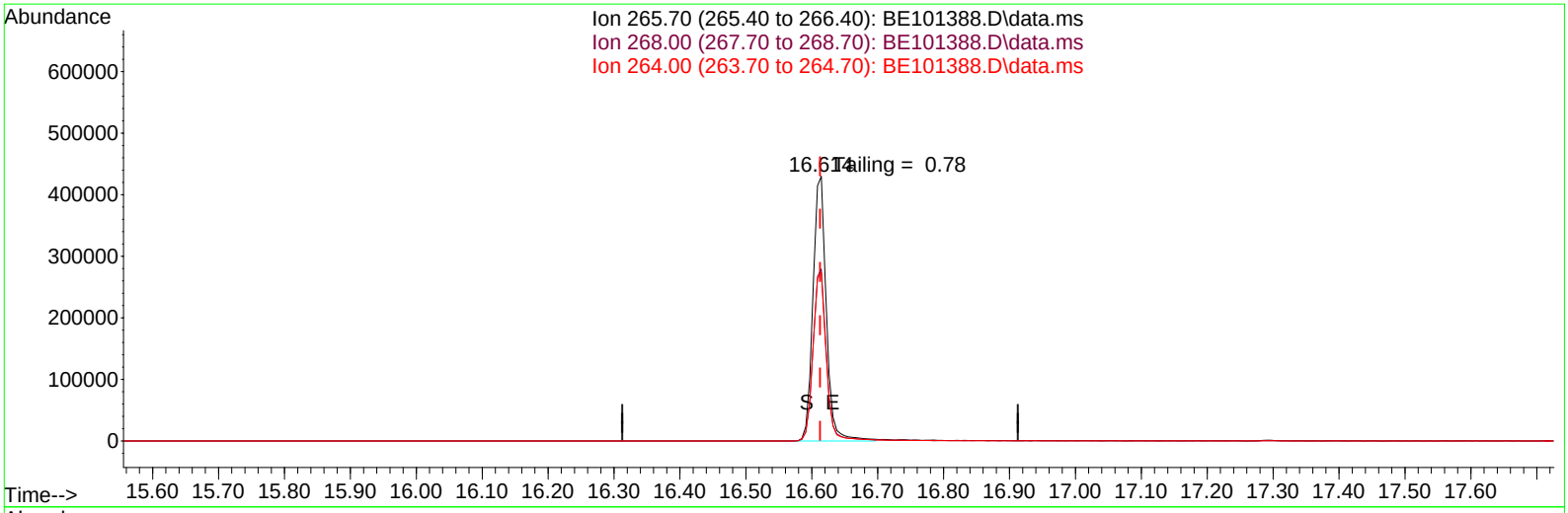
Instrument :
BNA_E
ClientSampleId :
DFTPP

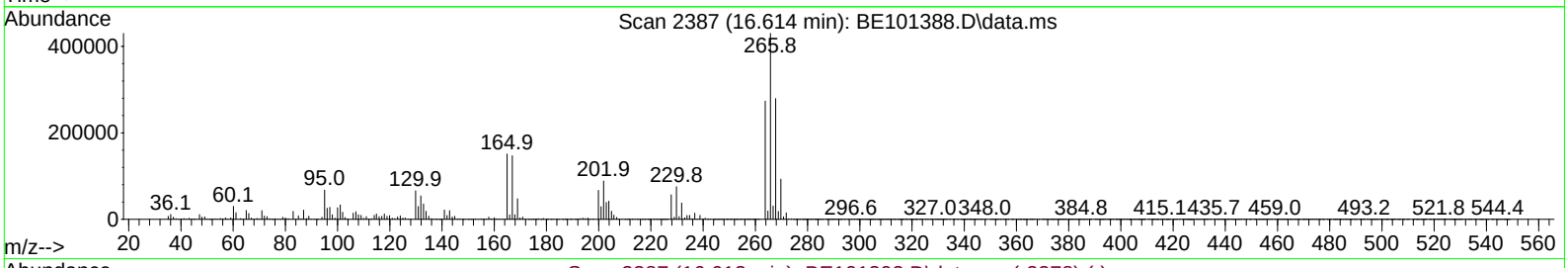
Sample Results: **BE101388.D**

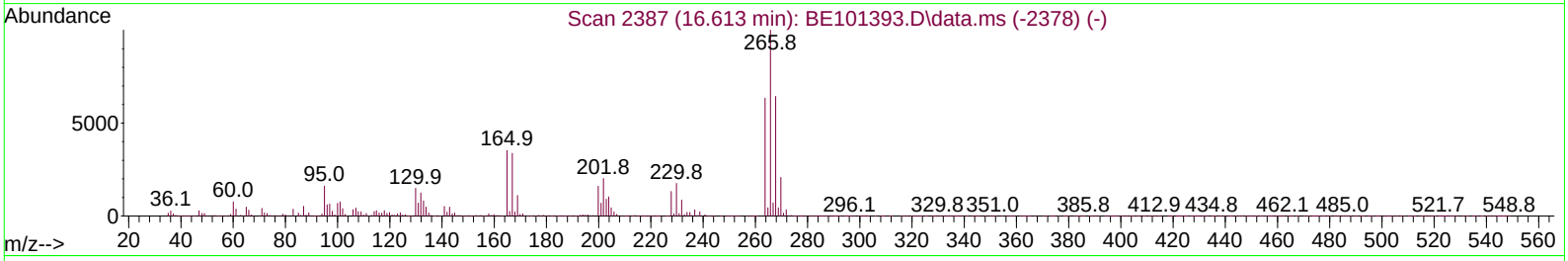
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Oct 29 01:32:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration







TIC: BE101388.D\data.ms

(70) Pentachlorophenol (C)

16.614min (+ 0.002) 1241130.64 ng

response 610726

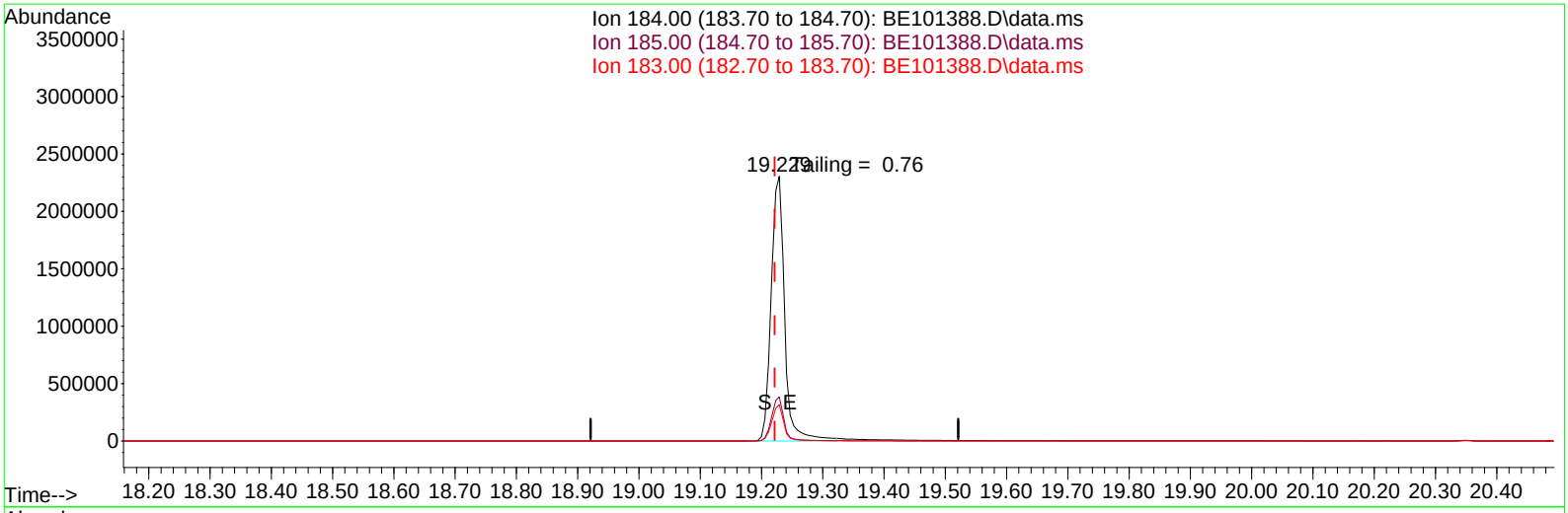
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.40	64.96
264.00	63.40	63.56
0.00	0.00	0.00

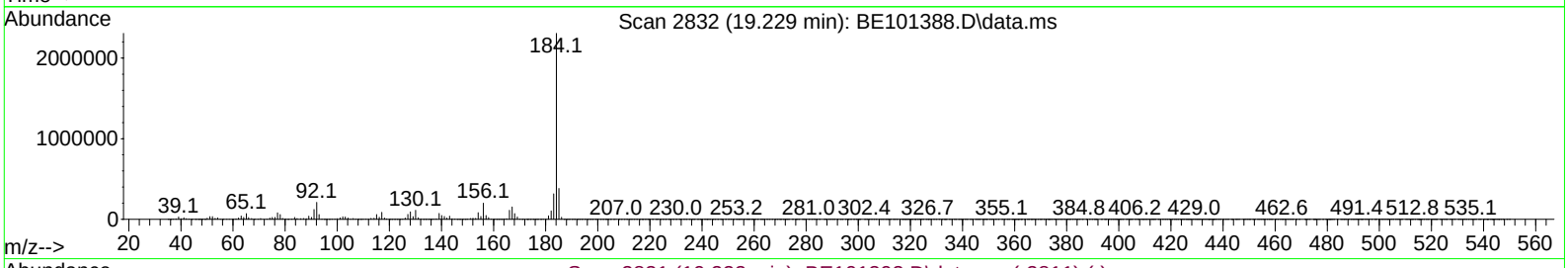
Sample Results: **BE101388.D**

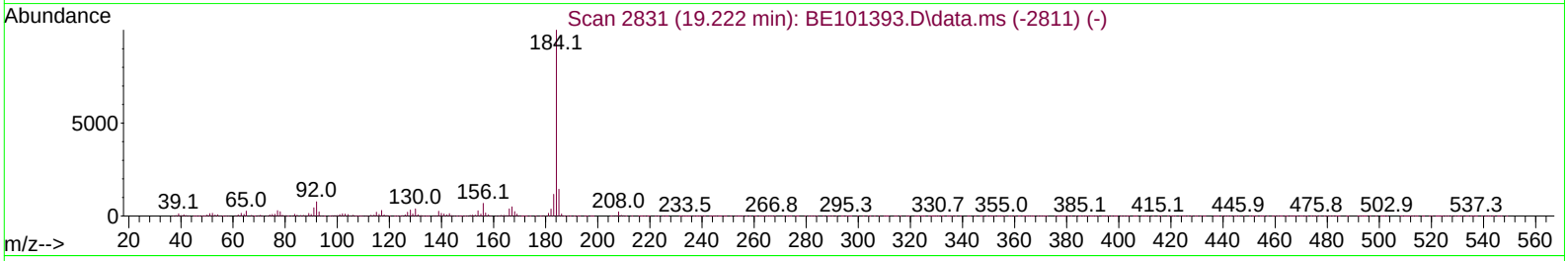
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Oct 29 01:32:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration







TIC: BE101388.D\data.ms

(77) Benzidine

19.229min (+ 0.008) 277076.80 ng

response 3629102

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	16.64
183.00	11.60	13.72
0.00	0.00	0.00

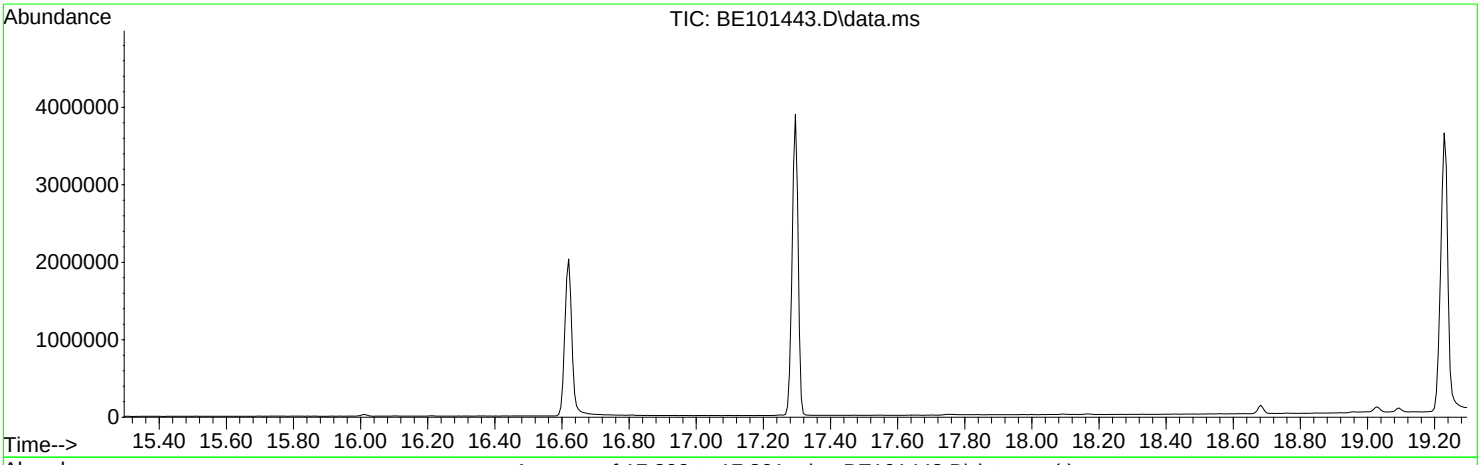
Sample Results: **BE101443.D**

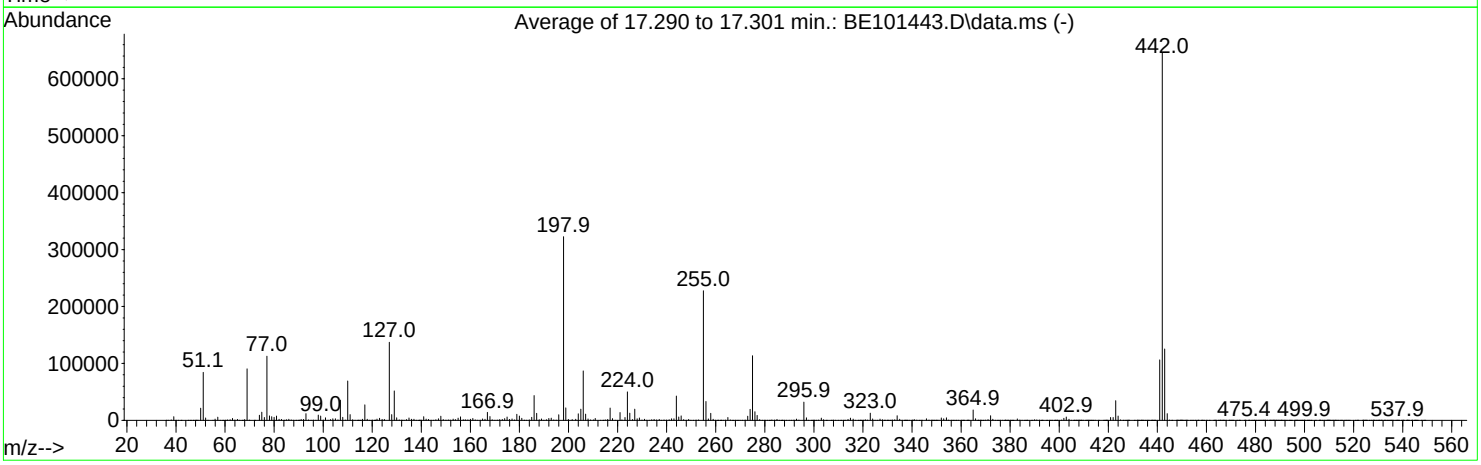
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101443.D
Acq On : 1 Nov 2024 9:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024





AutoFind: Scans 2502, 2503, 2504; Background Corrected with Scan 2494

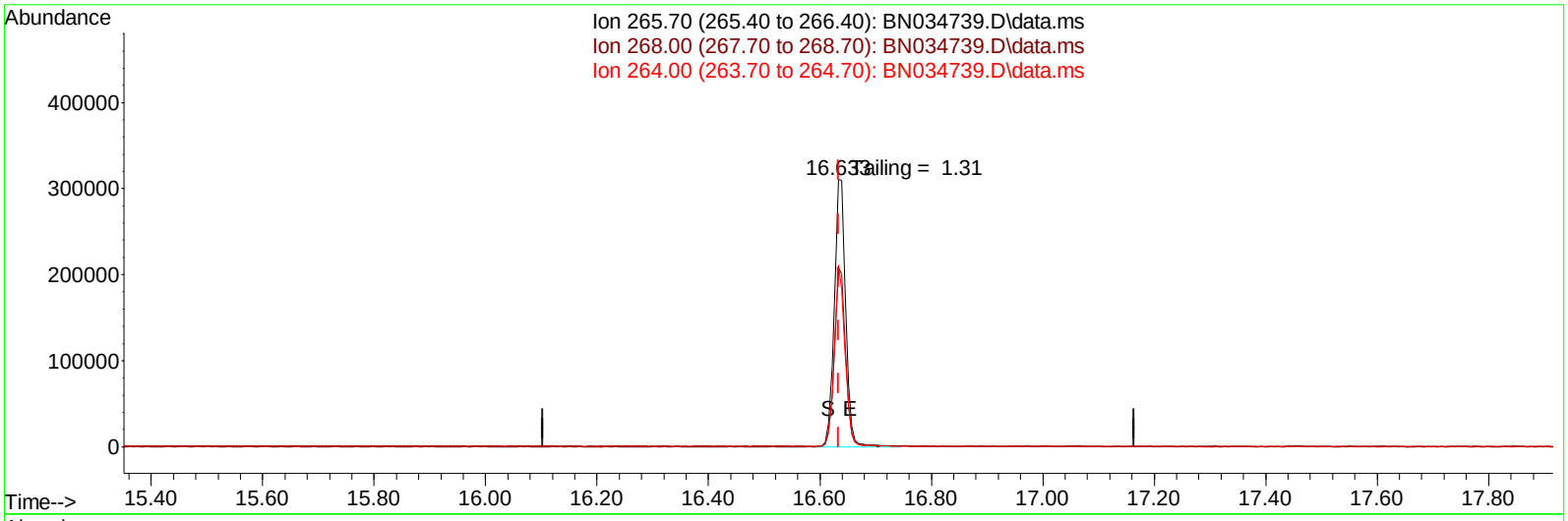
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.1	84334	PASS
68	69	0.00	2	1.6	1427	PASS
69	198	0.00	100	28.1	90651	PASS
70	69	0.00	2	0.5	469	PASS
127	198	10	80	42.5	137052	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	322581	PASS
199	198	5	9	6.8	22027	PASS
275	198	10	60	35.2	113664	PASS
365	198	1	100	5.7	18318	PASS
441	198	0.01	100	32.9	106170	PASS
442	442	50	100	100.0	646101	PASS
443	442	15	24	19.4	125248	PASS

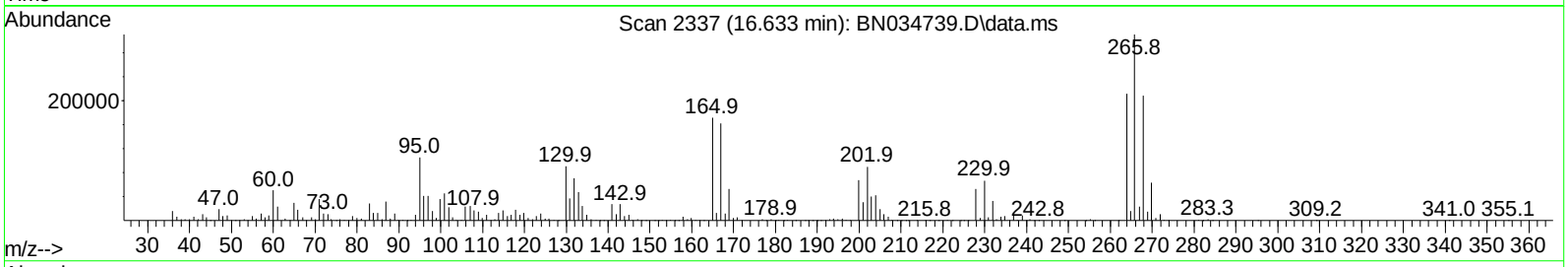
Sample Results: **BE101443.D**

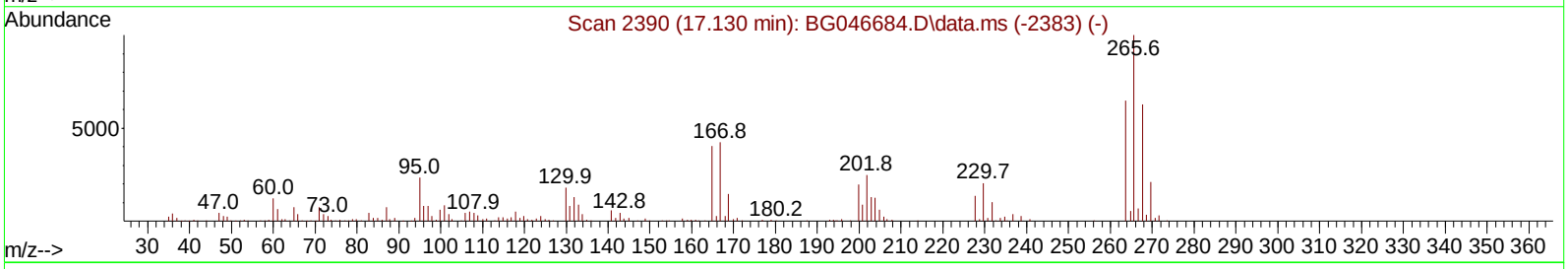
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Nov 04 06:42:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration







TIC: BN034739.D\data.ms

(70) Pentachlorophenol (C)

16.633min (0.000) 23615.75 ng

response 445905

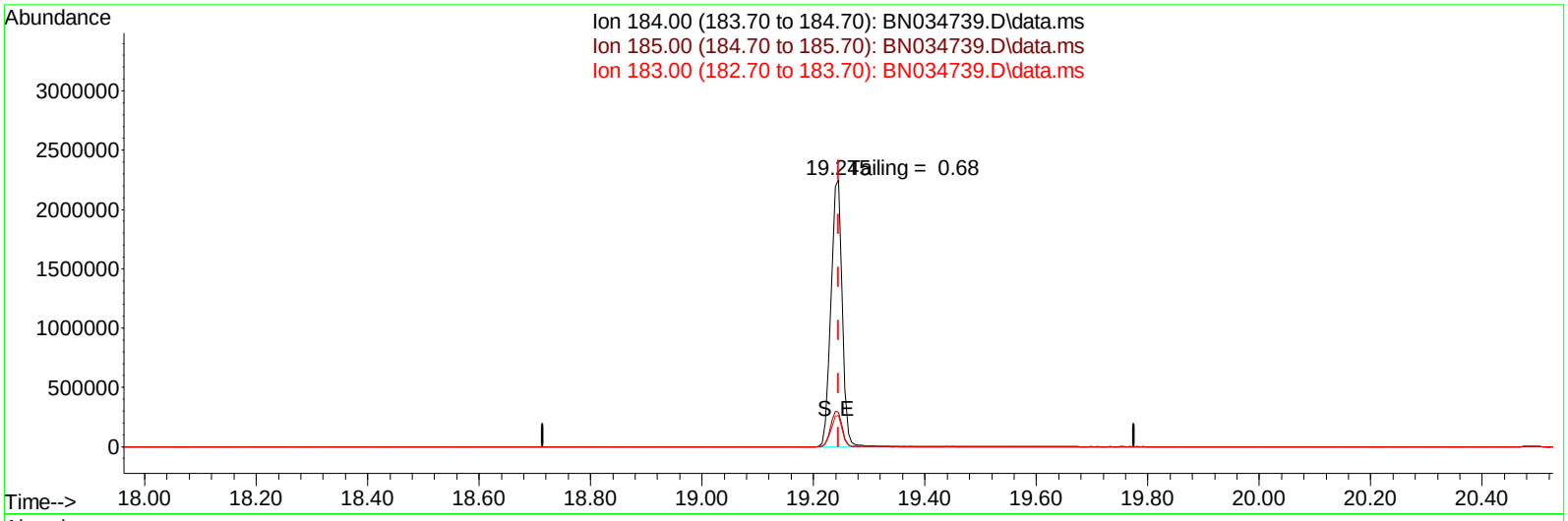
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.99
264.00	61.60	68.12
0.00	0.00	0.00

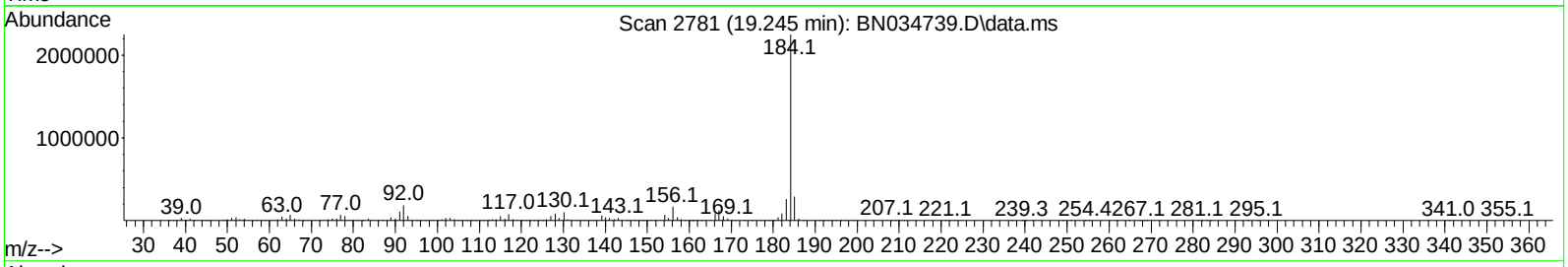
Sample Results: **BE101443.D**

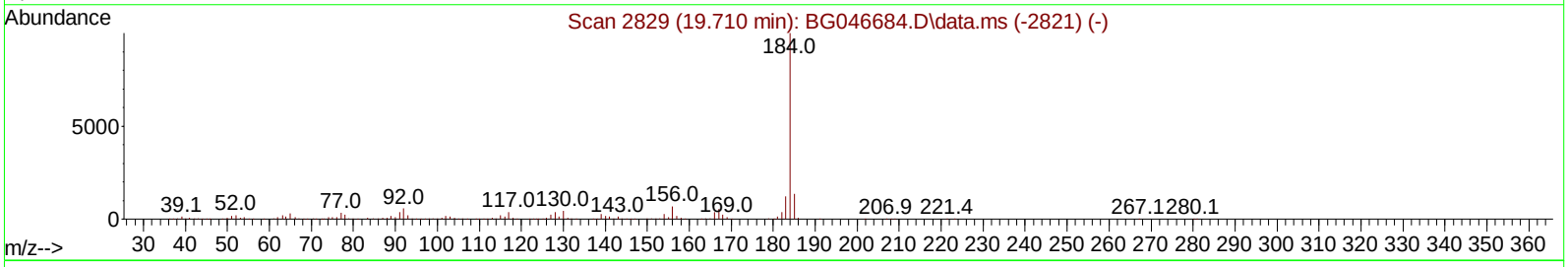
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Nov 04 06:42:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration







TIC: BN034739.D\data.ms

(77) Benzidine

19.245min (0.000) 766500.86 ng

response 3189736

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.97
183.00	13.20	11.61
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/30/2024	BNA_N	BN034739.D
Compound Name	**Response**	**Retention Time**
DDT	1360651	20.492
DDD	28684	20.098
DDE	0	19.569
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
28684	1389335	2.06

Instrument :
BNA_E
ClientSampleId :
DFTPP

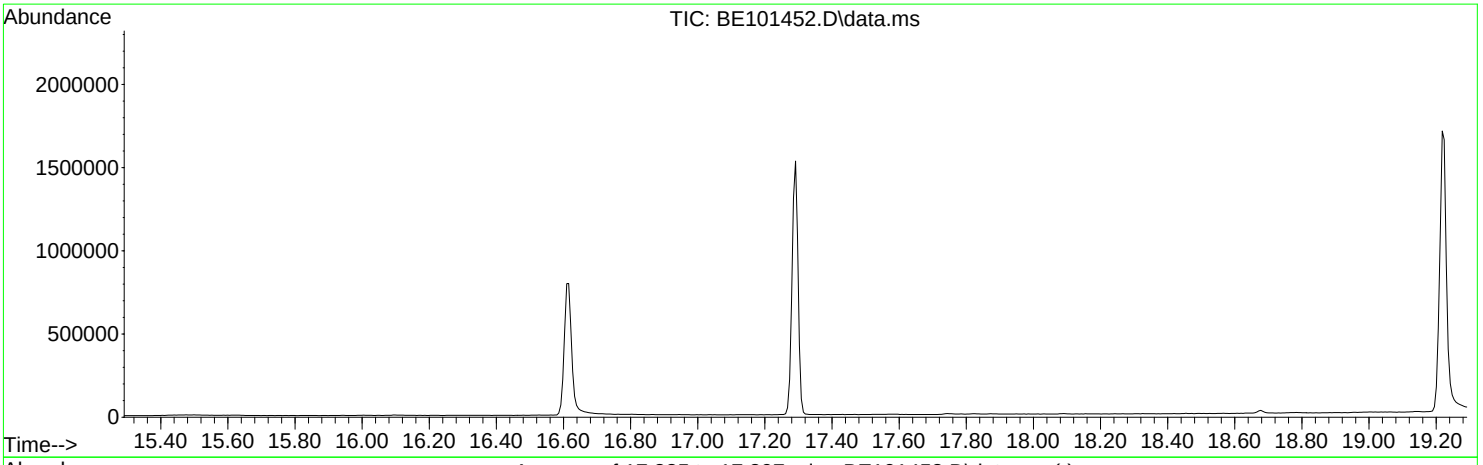
Sample Results: **BE101452.D**

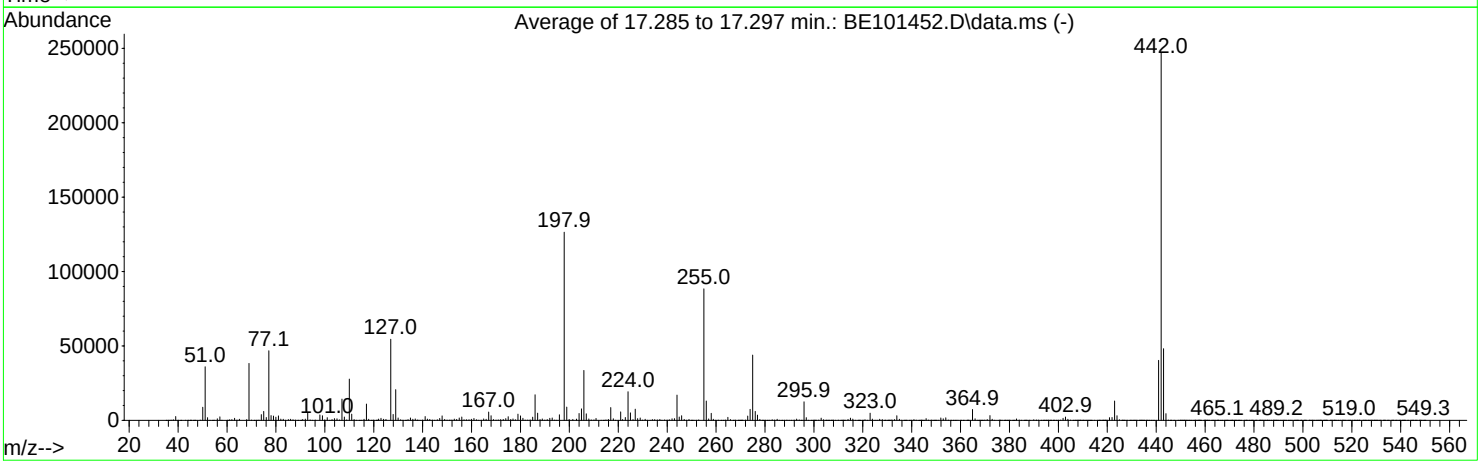
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101452.D
Acq On : 4 Nov 2024 12:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024





AutoFind: Scans 2501, 2502, 2503; Background Corrected with Scan 2492

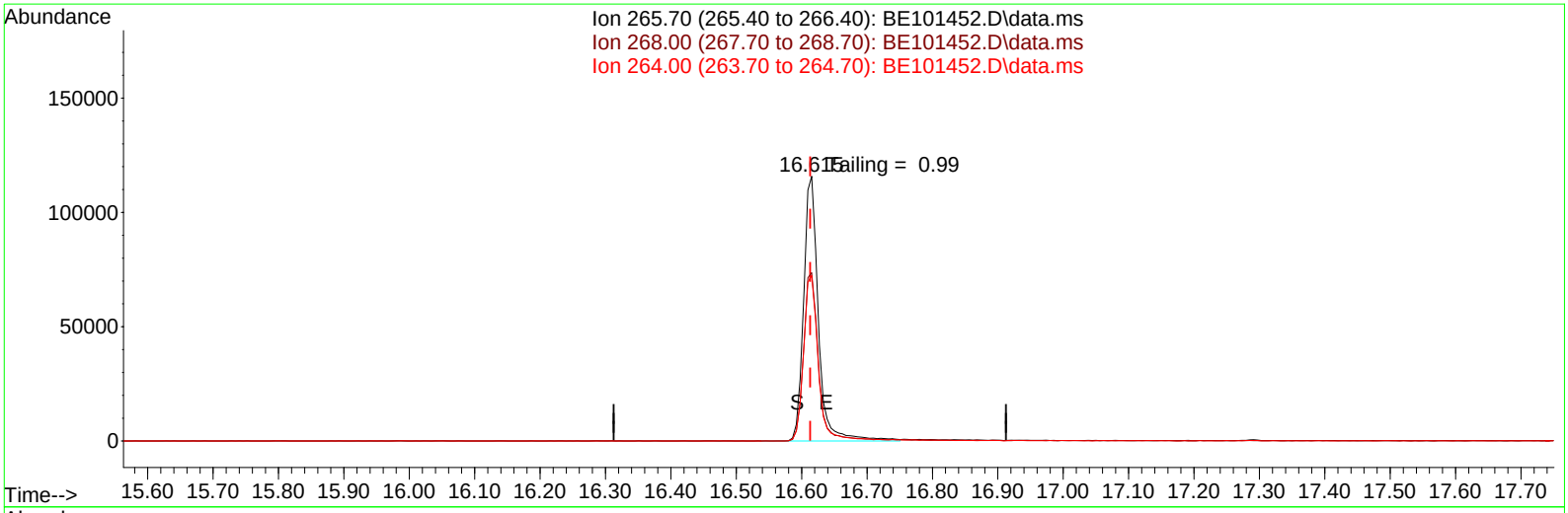
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.5	36066	PASS
68	69	0.00	2	1.6	597	PASS
69	198	0.00	100	30.3	38281	PASS
70	69	0.00	2	0.5	179	PASS
127	198	10	80	43.1	54497	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	126472	PASS
199	198	5	9	7.1	8926	PASS
275	198	10	60	34.6	43822	PASS
365	198	1	100	5.8	7315	PASS
441	198	0.01	100	31.9	40331	PASS
442	442	50	100	100.0	247168	PASS
443	442	15	24	19.5	48143	PASS

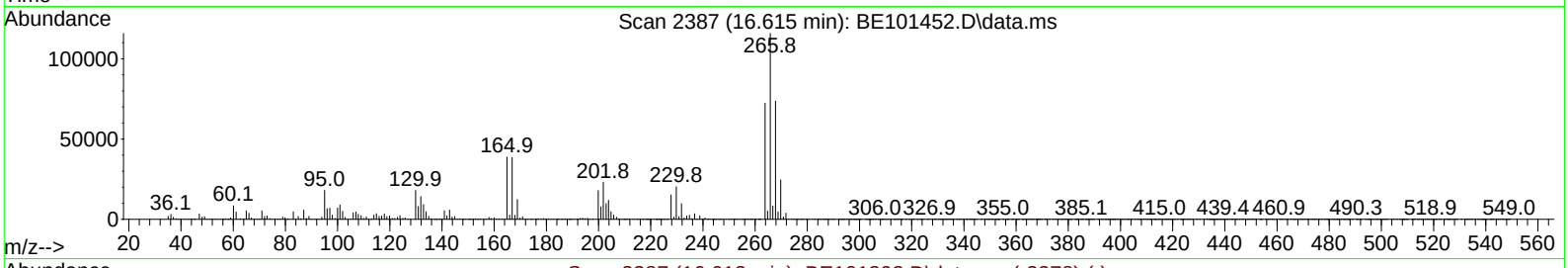
Sample Results: **BE101452.D**

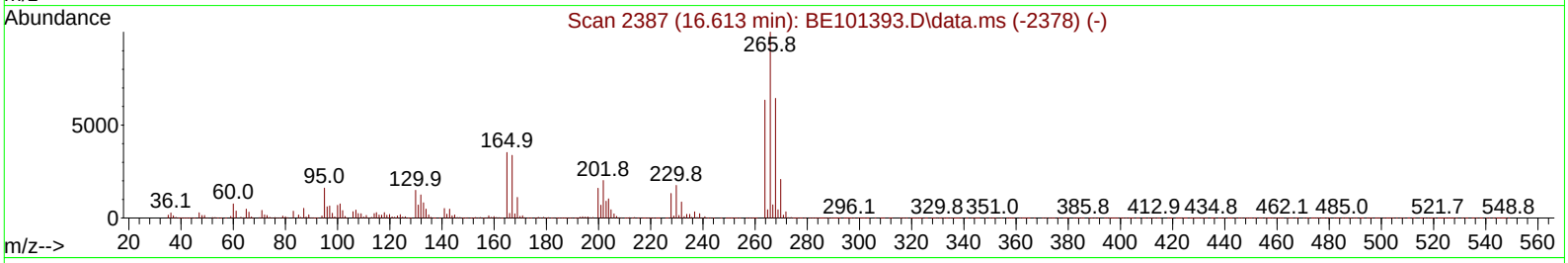
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101452.D
Acq On : 4 Nov 2024 12:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Nov 04 19:28:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration







TIC: BE101452.D\data.ms

(70) Pentachlorophenol (C)

16.615min (+ 0.003) 502373.06 ng

response 175435

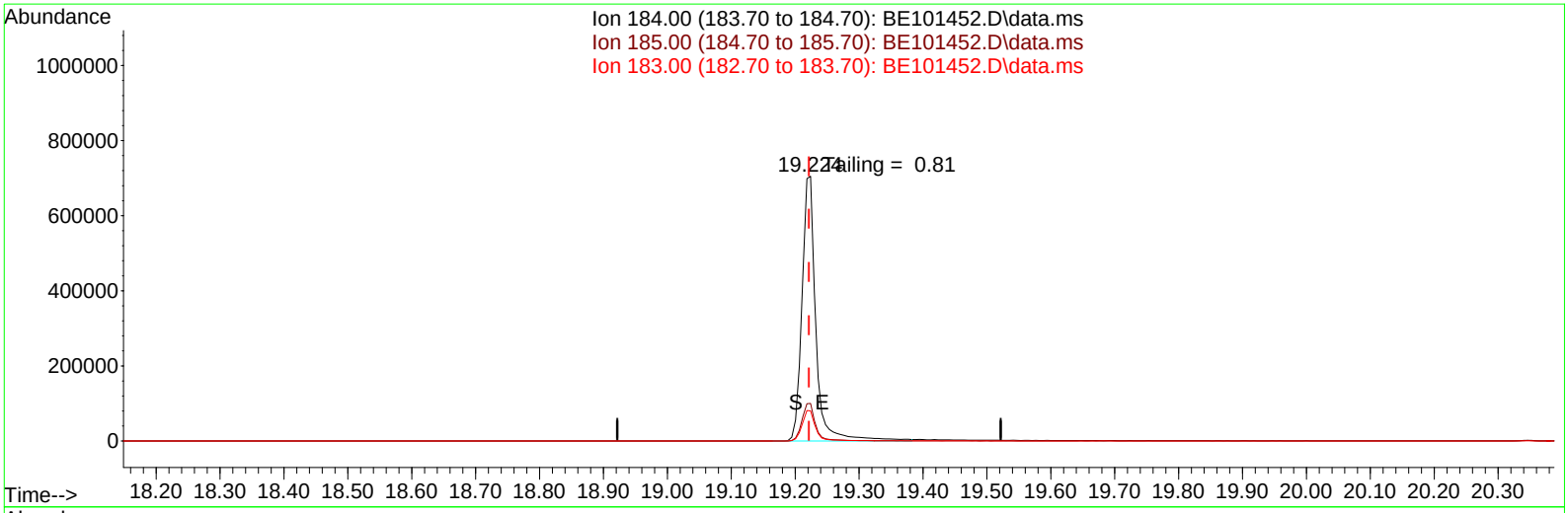
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.40	63.57
264.00	63.40	62.50
0.00	0.00	0.00

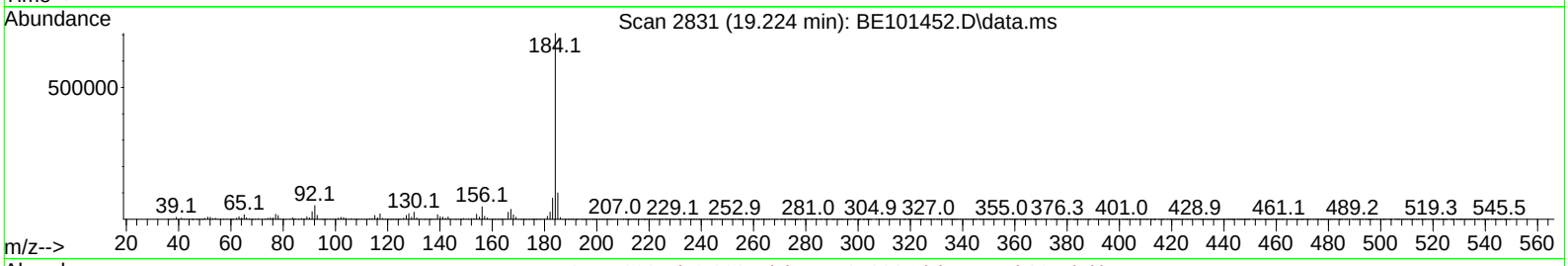
Sample Results: **BE101452.D**

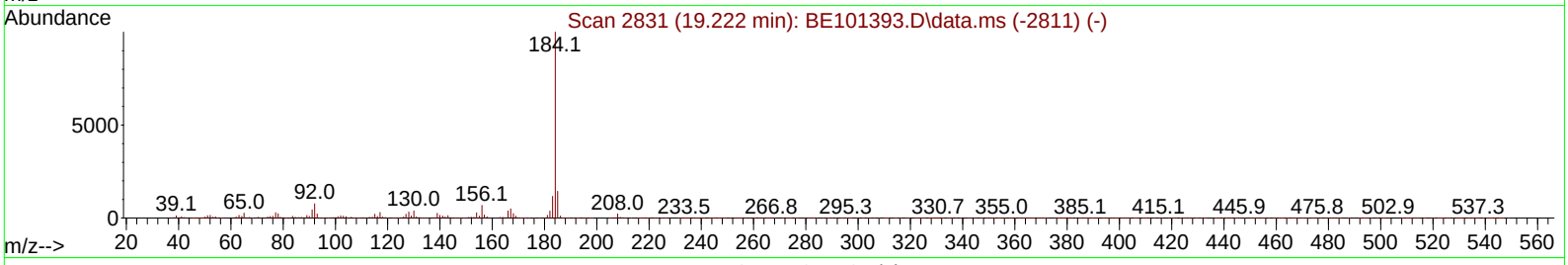
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101452.D
Acq On : 4 Nov 2024 12:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Nov 04 19:28:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration







TIC: BE101452.D\data.ms

(77) Benzidine

19.224min (+ 0.003) 969740.64 ng m

response 1070765

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.19
183.00	11.60	11.43
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/4/2024	BNA_E	BE101452.D
Compound Name	**Response**	**Retention Time**
DDT	539338	20.346
DDD	21084	19.917
DDE	981	19.406
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
22065	561403	3.93

Instrument :
BNA_E
ClientSampleId :
DFTPP

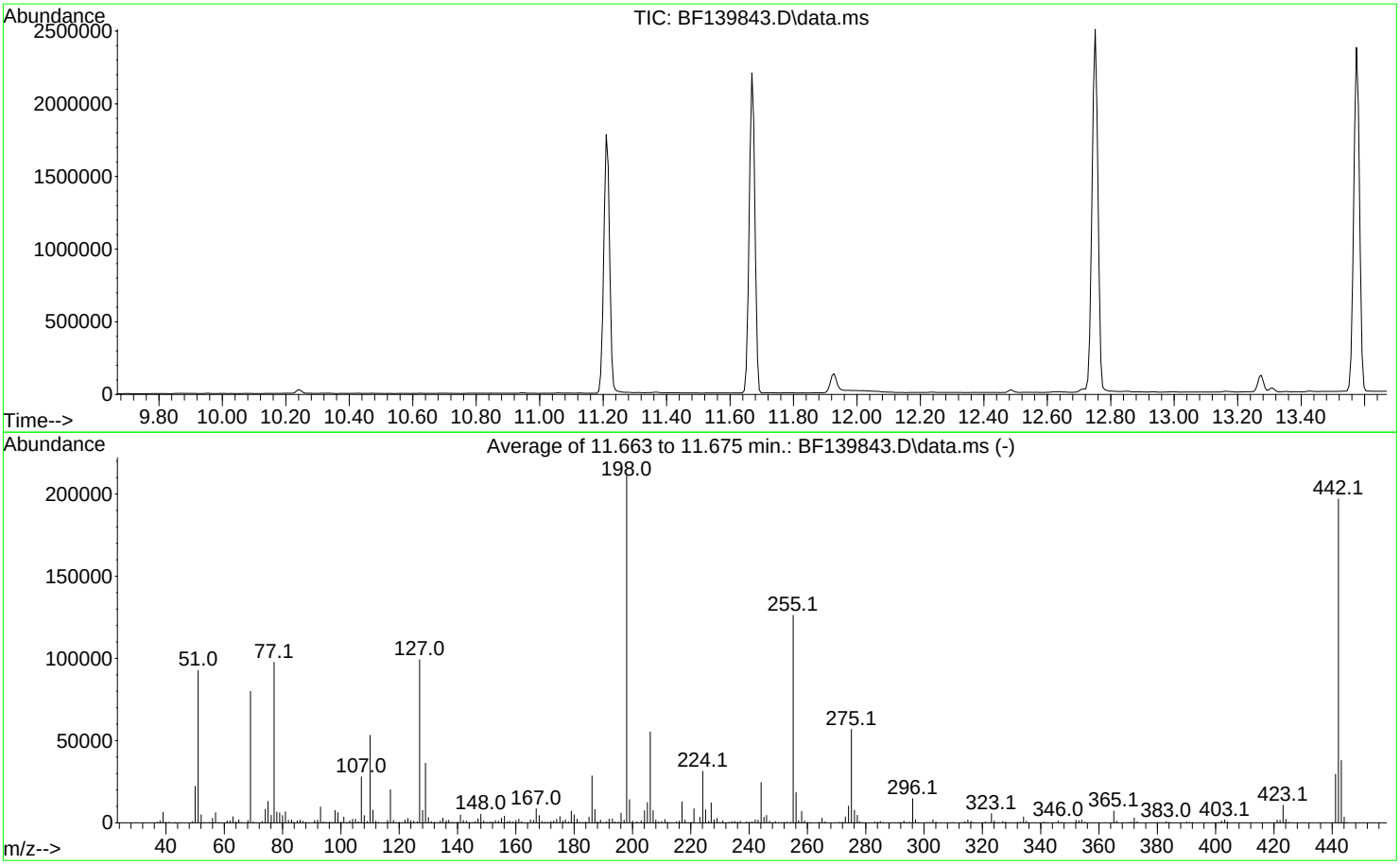
Sample Results: **BF139843.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

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



AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1621

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.8	92701	PASS
68	69	0.00	2	1.9	1486	PASS
69	198	0.00	100	37.8	79959	PASS
70	69	0.00	2	0.7	529	PASS
127	198	10	80	46.9	99176	PASS
197	198	0.00	2	0.8	1650	PASS
198	198	100	100	100.0	211520	PASS
199	198	5	9	6.7	14078	PASS
275	198	10	60	26.9	56867	PASS
365	198	1	100	3.4	7148	PASS
441	198	0.01	100	14.0	29512	PASS
442	442	50	100	100.0	196979	PASS
443	442	15	24	19.2	37896	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/18/2024	BNA_F	BF139843.D
Compound Name	**Response**	**Retention Time**
DDT	585942	13.574
DDD	33558	13.274
DDE	421	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
33979	619921	5.48

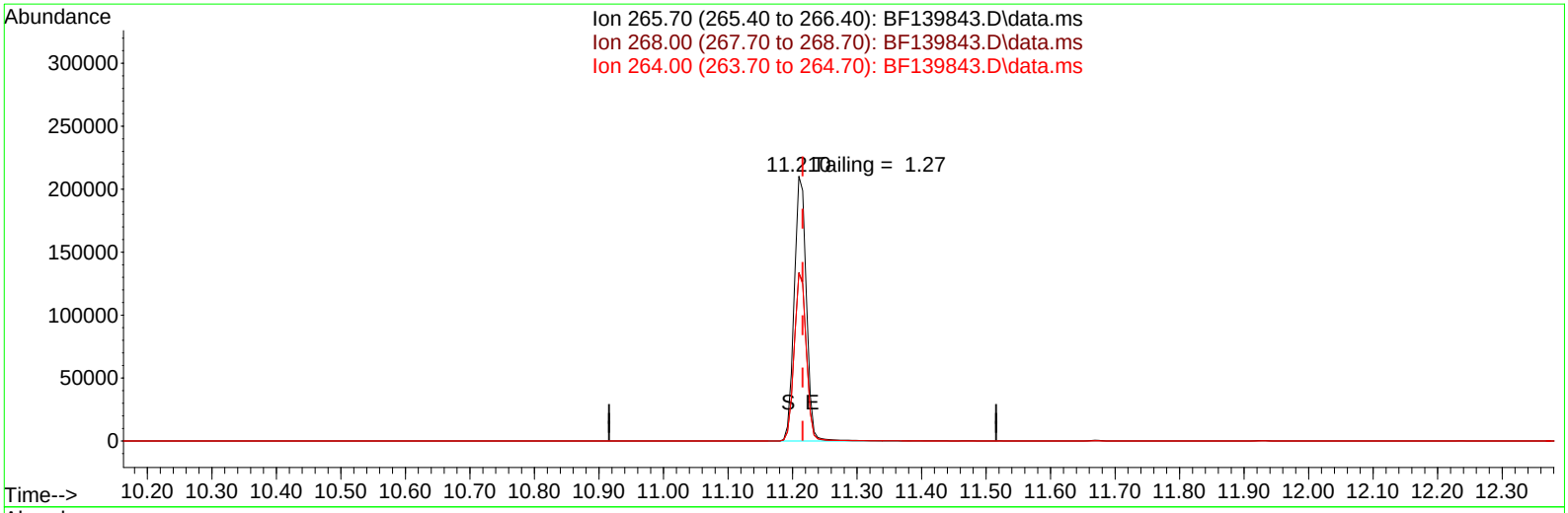
Instrument :
BNA_F
ClientSampleId :
DFTPP

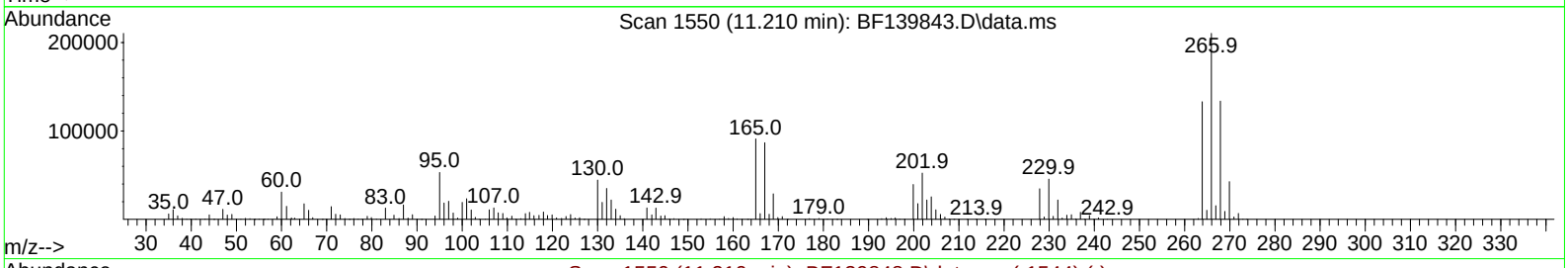
Sample Results: **BF139843.D**

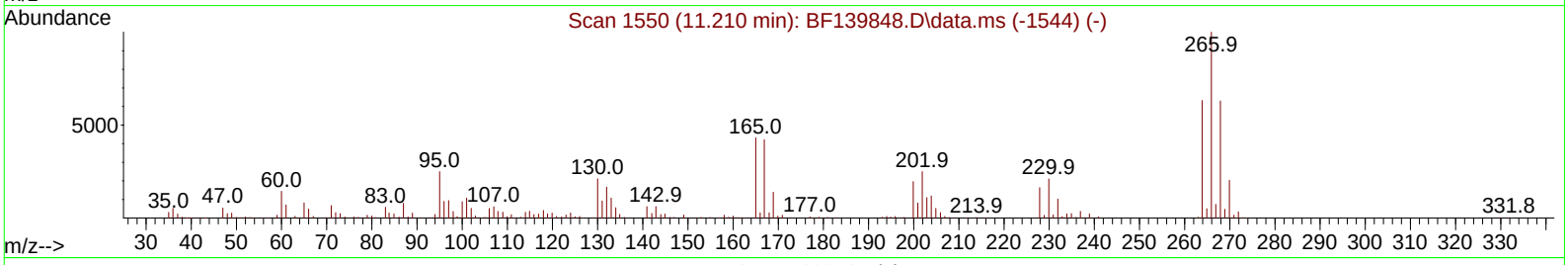
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration







TIC: BF139843.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.006) 60102.24 ng

response 277191

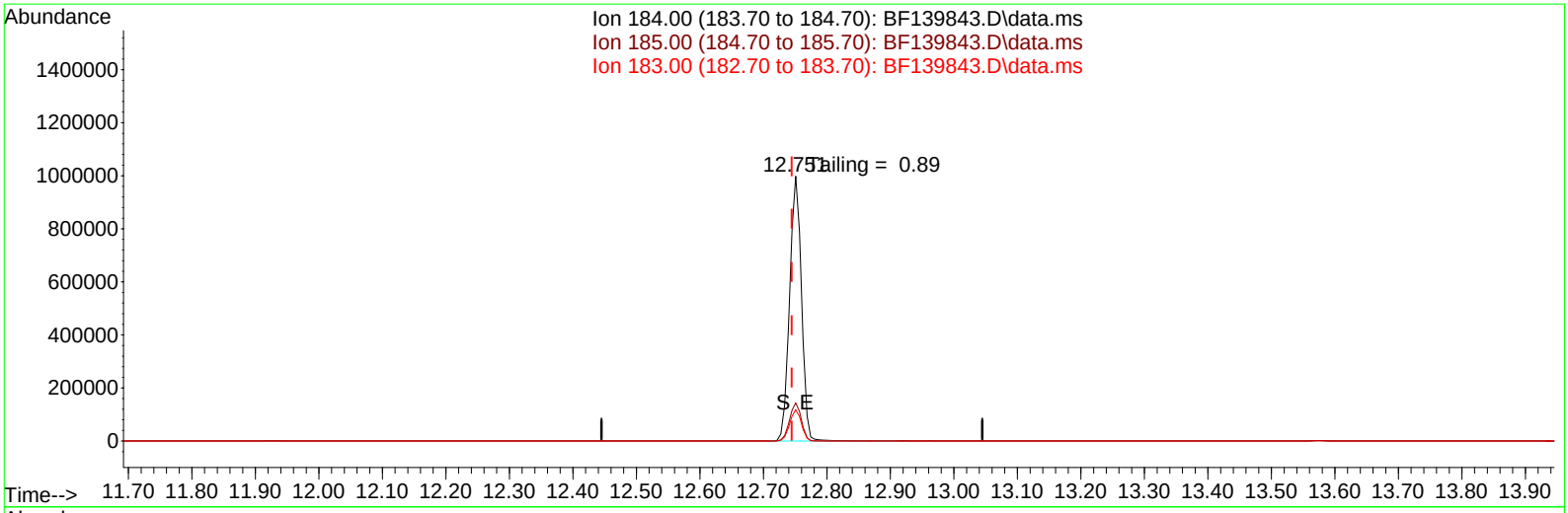
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.60
264.00	62.50	63.30
0.00	0.00	0.00

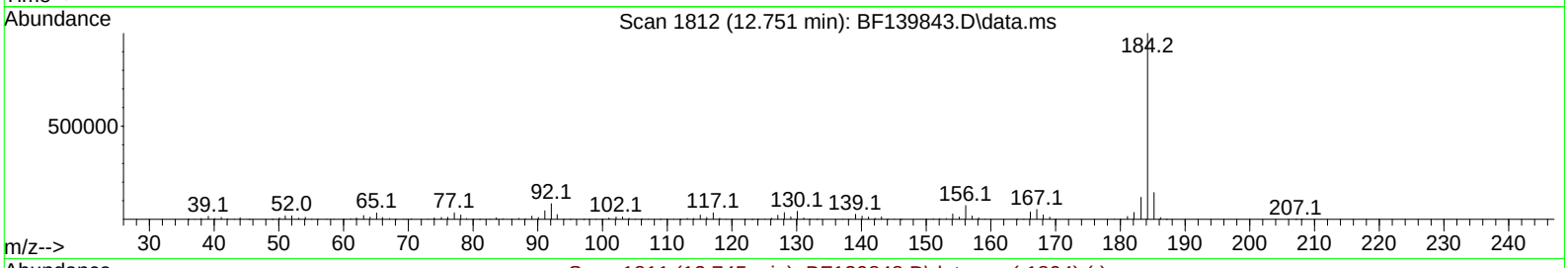
Sample Results: **BF139843.D**

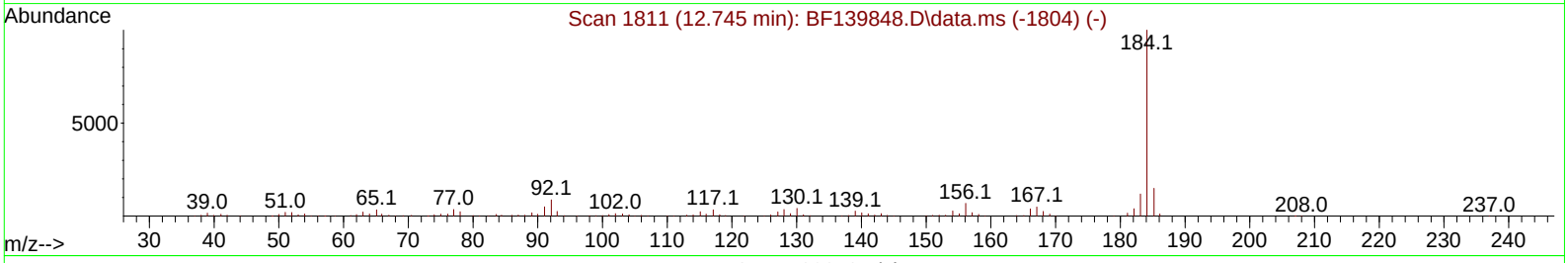
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration







TIC: BF139843.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 86231.01 ng

response 1303015

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.39
183.00	11.70	11.82
0.00	0.00	0.00

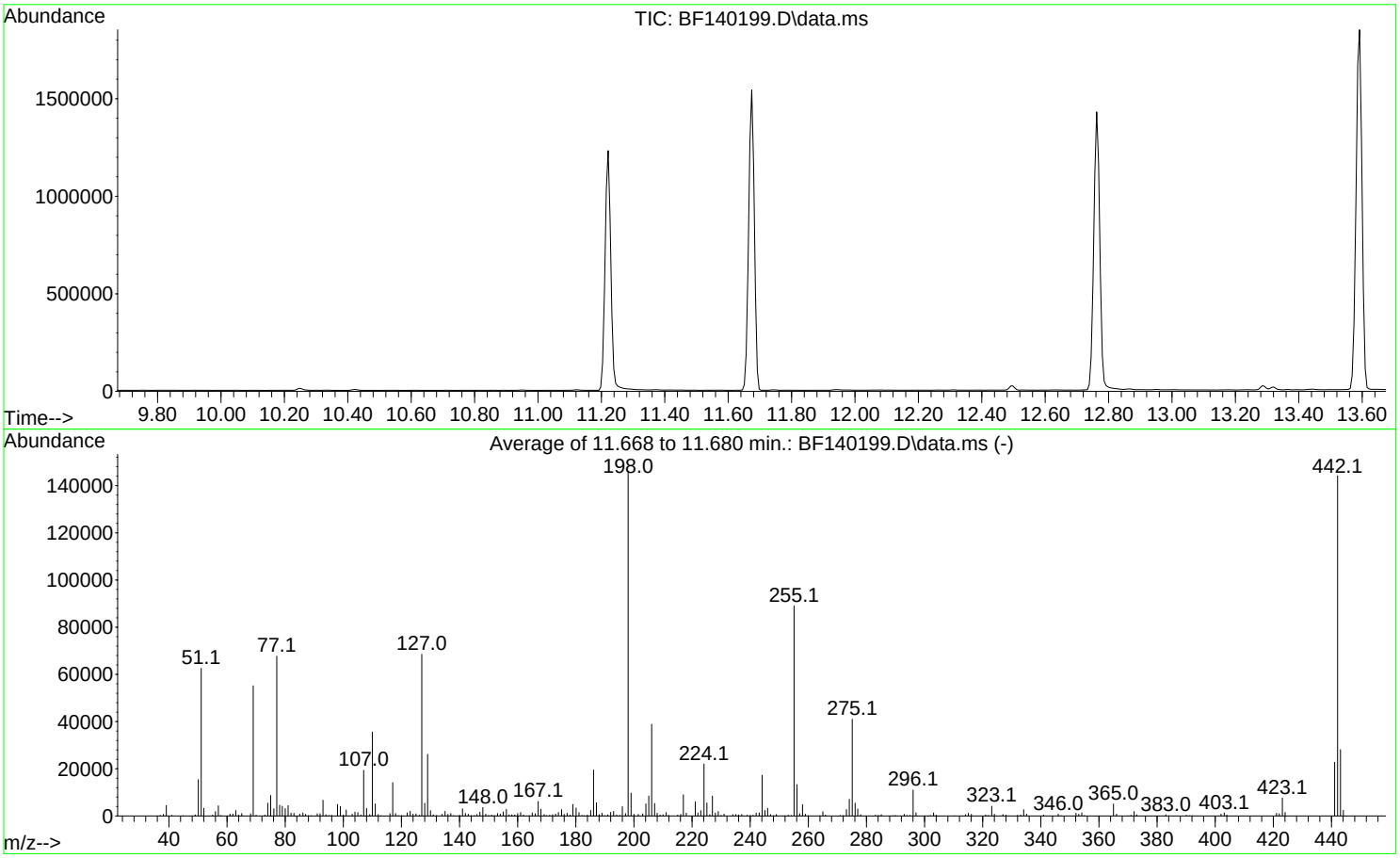
Sample Results: **BF140199.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140199.D
Acq On : 01 Nov 2024 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

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



AutoFind: Scans 1628, 1629, 1630; Background Corrected with Scan 1621

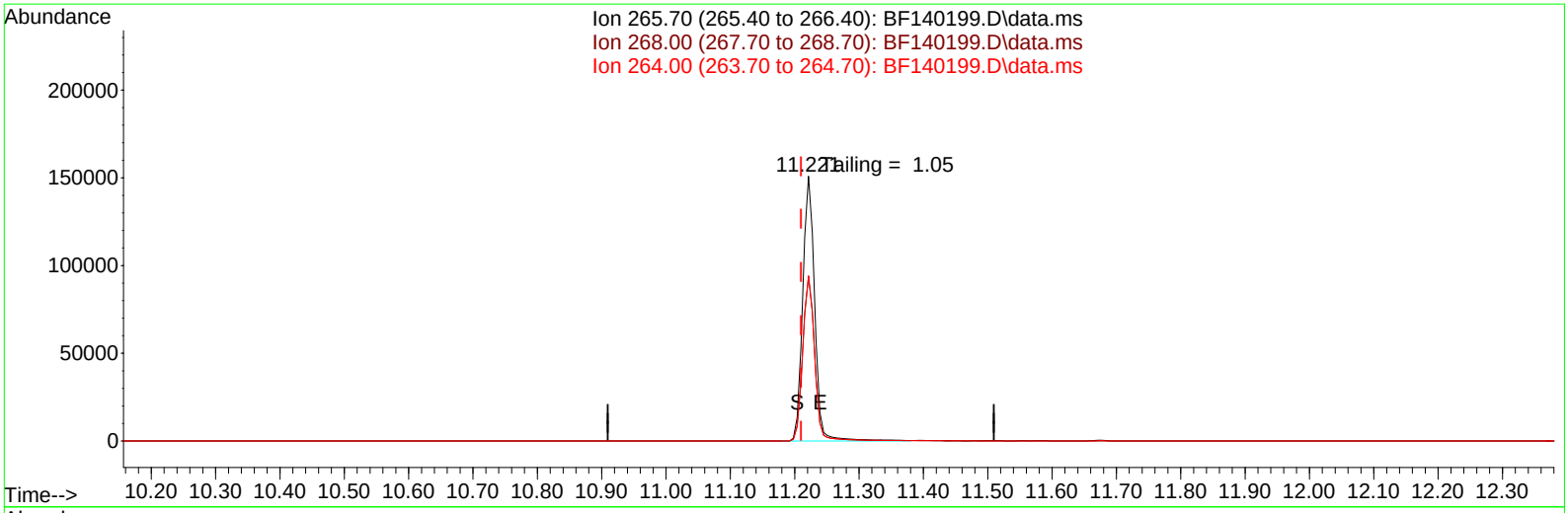
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.9	62603	PASS
68	69	0.00	2	1.7	956	PASS
69	198	0.00	100	37.8	55155	PASS
70	69	0.00	2	0.6	315	PASS
127	198	10	80	47.0	68533	PASS
197	198	0.00	2	0.7	1013	PASS
198	198	100	100	100.0	145960	PASS
199	198	5	9	6.6	9704	PASS
275	198	10	60	28.1	40979	PASS
365	198	1	100	3.5	5070	PASS
441	198	0.01	100	15.6	22800	PASS
442	442	50	100	100.0	144173	PASS
443	442	15	24	19.5	28141	PASS

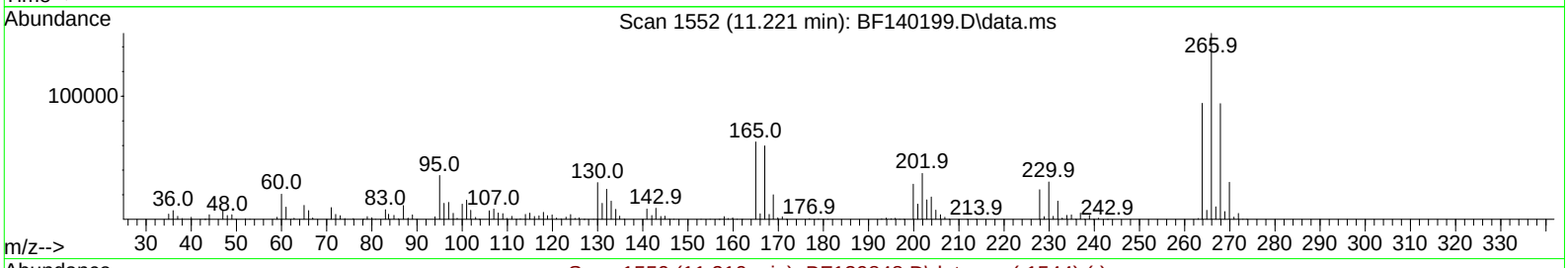
Sample Results: **BF140199.D**

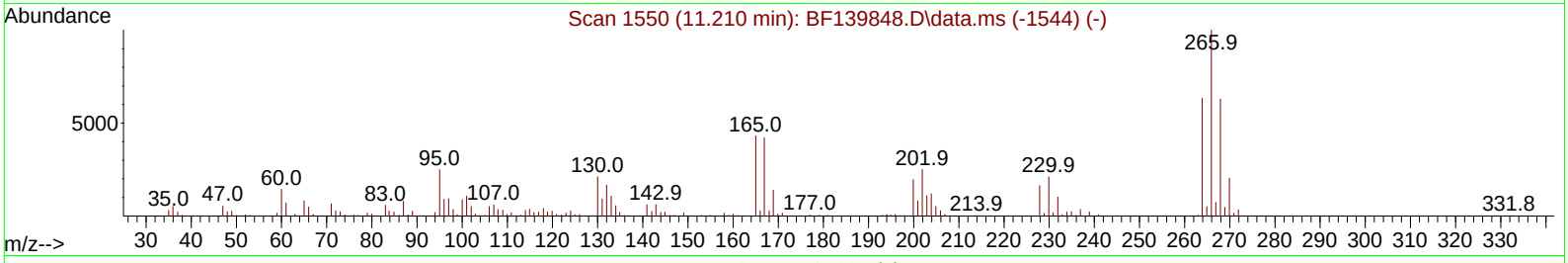
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140199.D
Acq On : 01 Nov 2024 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 01 11:17:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF140199.D\data.ms

(70) Pentachlorophenol (C)

11.221min (+ 0.012) 111304.73 ng

response 195666

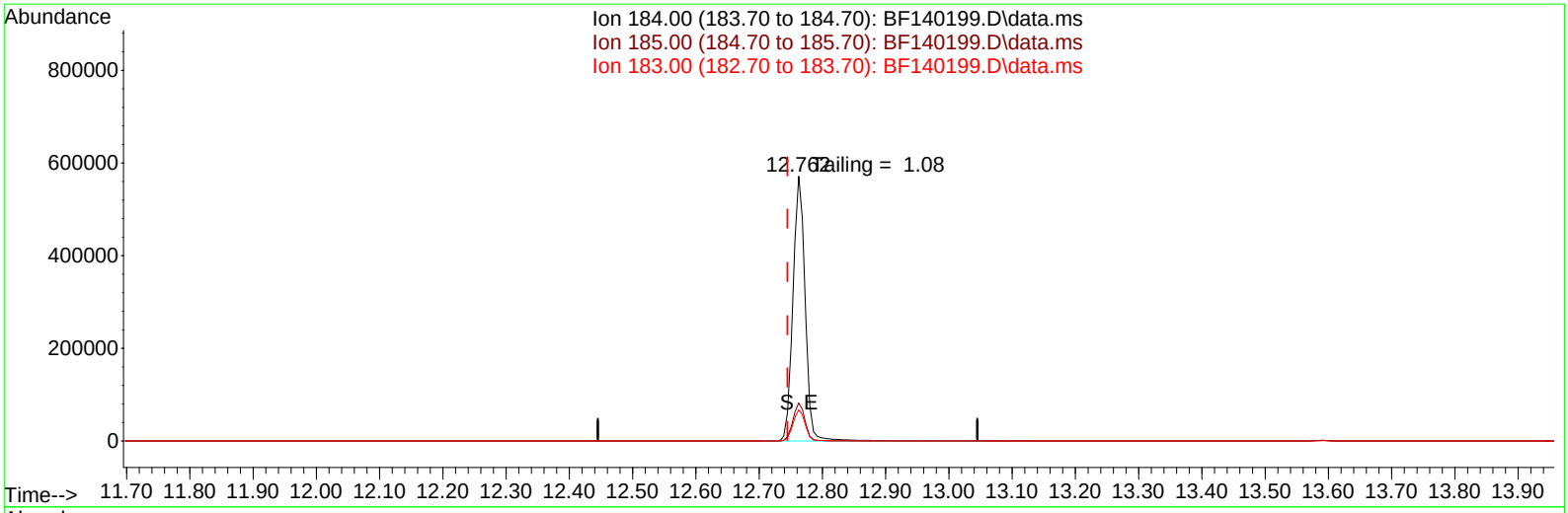
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	62.21
264.00	63.20	62.38
0.00	0.00	0.00

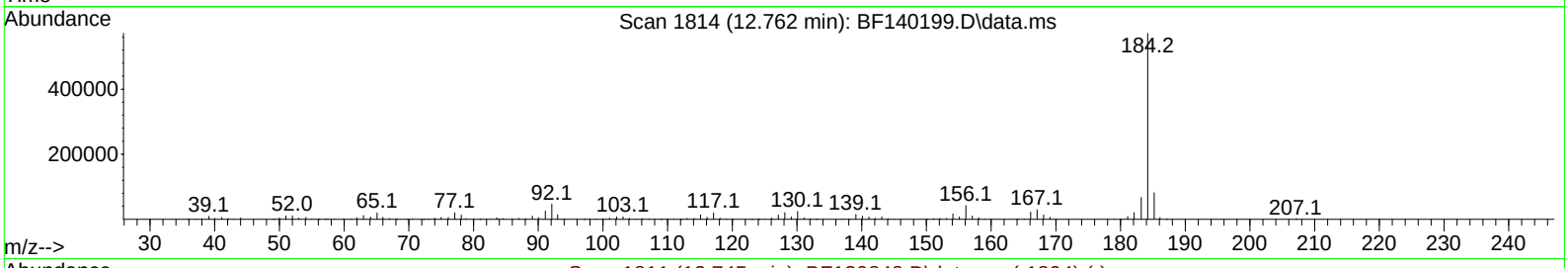
Sample Results: **BF140199.D**

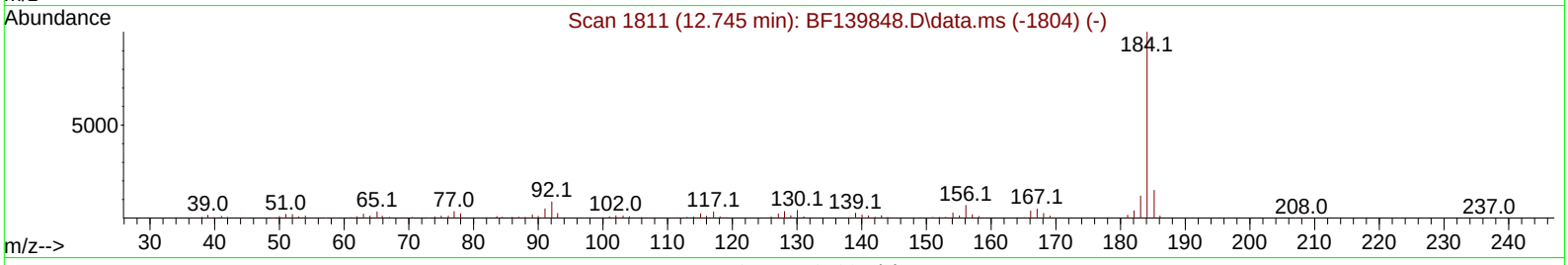
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140199.D
Acq On : 01 Nov 2024 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 01 11:17:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration







TIC: BF140199.D\data.ms

(77) Benzidine

12.762min (+ 0.017) 118399.71 ng

response 767076

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.36
183.00	11.80	11.79
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/1/2024	BNA_F	BF140199.D
Compound Name	**Response**	**Retention Time**
DDT	471343	13.592
DDD	9865	13.286
DDE	718	12.951
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10583	481926	2.20

Instrument :
BNA_F
ClientSampleId :
DFTPP

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

Raw Data: **BE101454.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg

Raw Data: **BE101454.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	112		30 (15) - 130 (107)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.0		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.3		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		30 (10) - 130 (116)	83%	SPK: 150
1718-51-0	Terphenyl-d14	80.1		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	83700	7.573			
1146-65-2	Naphthalene-d8	332000	10.341			
15067-26-2	Acenaphthene-d10	209000	14.177			
1517-22-2	Phenanthrene-d10	479000	16.915			
1719-03-5	Chrysene-d12	638000	21.075			
1520-96-3	Perylene-d12	926000	23.372			

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_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.573	152	83697	20.000	ng	0.00
21) Naphthalene-d8	10.341	136	332383	20.000	ng	0.00
39) Acenaphthene-d10	14.177	164	209474	20.000	ng	0.00
64) Phenanthrene-d10	16.915	188	478774	20.000	ng	0.00
76) Chrysene-d12	21.075	240	637683	20.000	ng	0.00
86) Perylene-d12	23.372	264	926419	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.323	112	599545	125.548	ng	0.00
7) Phenol-d6	6.951	99	740437	111.822	ng	0.00
23) Nitrobenzene-d5	8.784	82	428697	81.009	ng	0.00
42) 2,4,6-Tribromophenol	15.687	330	459560	125.173	ng	0.00
45) 2-Fluorobiphenyl	12.802	172	1067682	86.319	ng	0.00
79) Terphenyl-d14	19.512	244	2218492	80.071	ng	0.00
Target Compounds						Qvalue

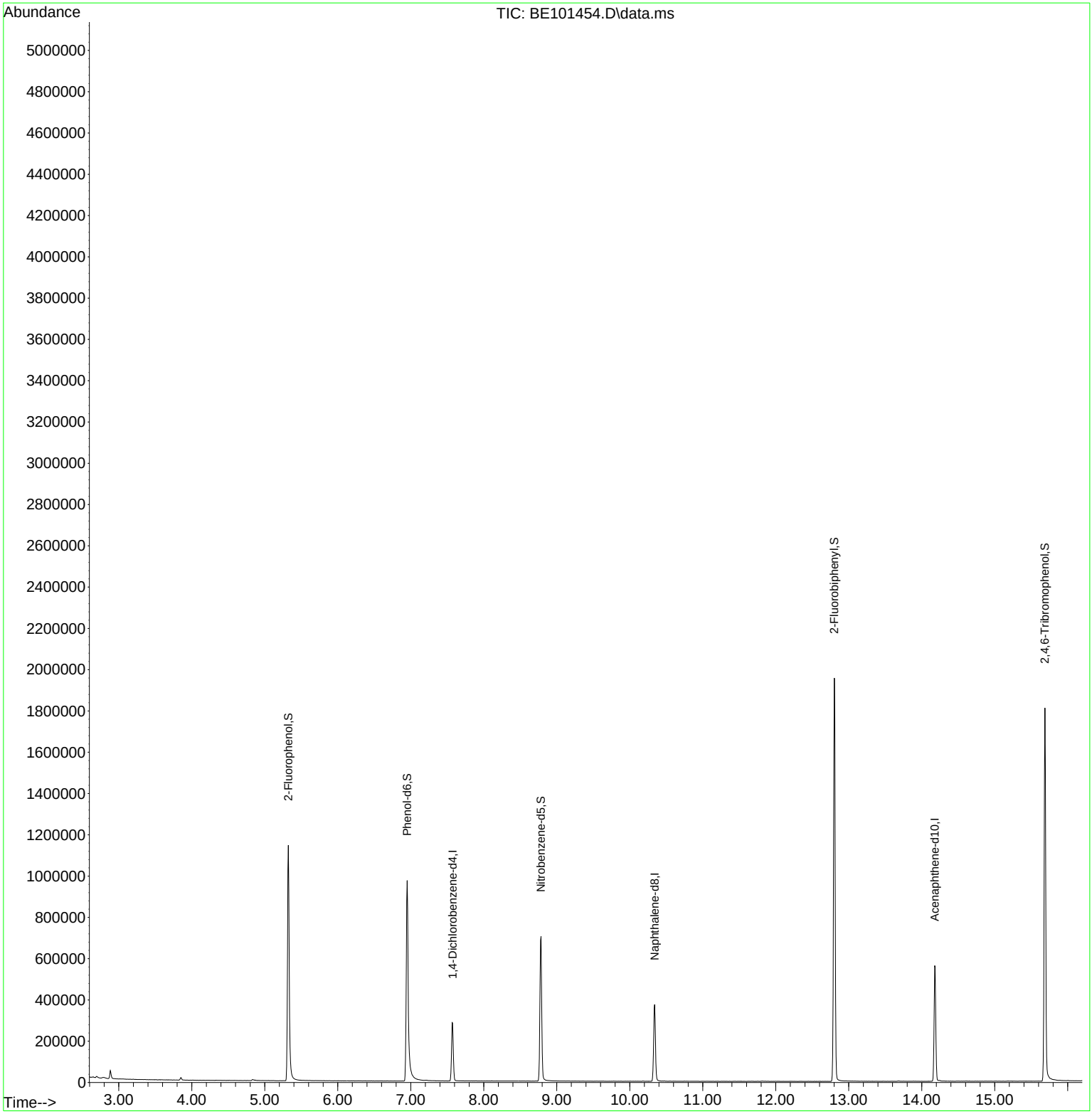
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **BE101454.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

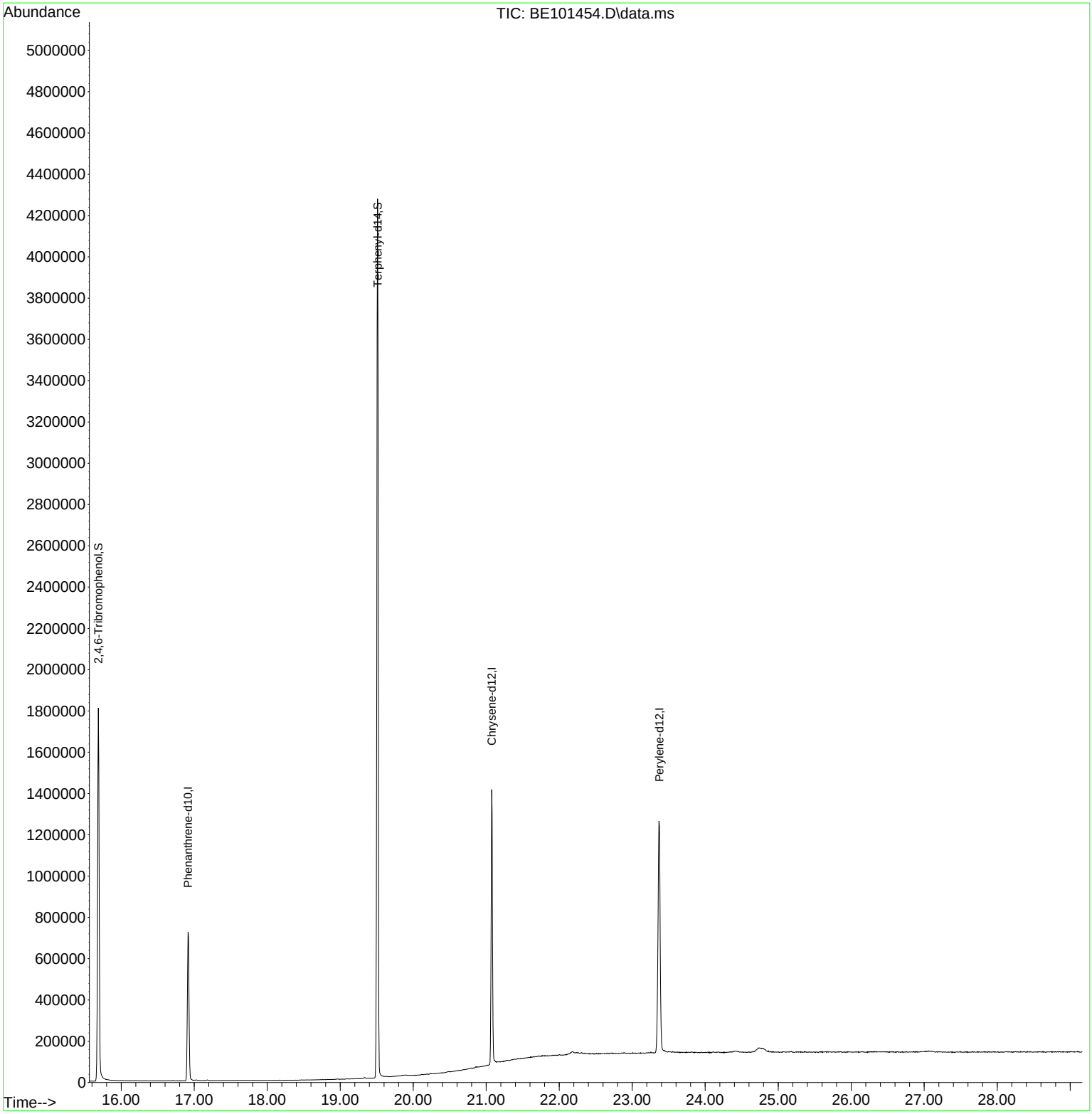
Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

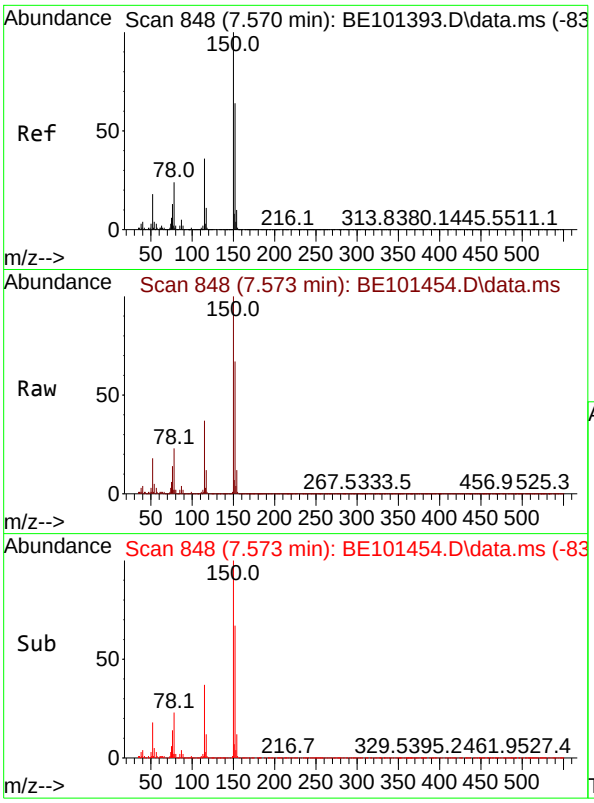


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



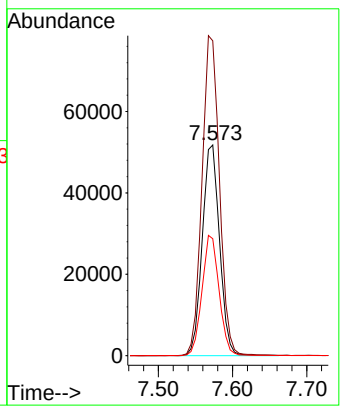


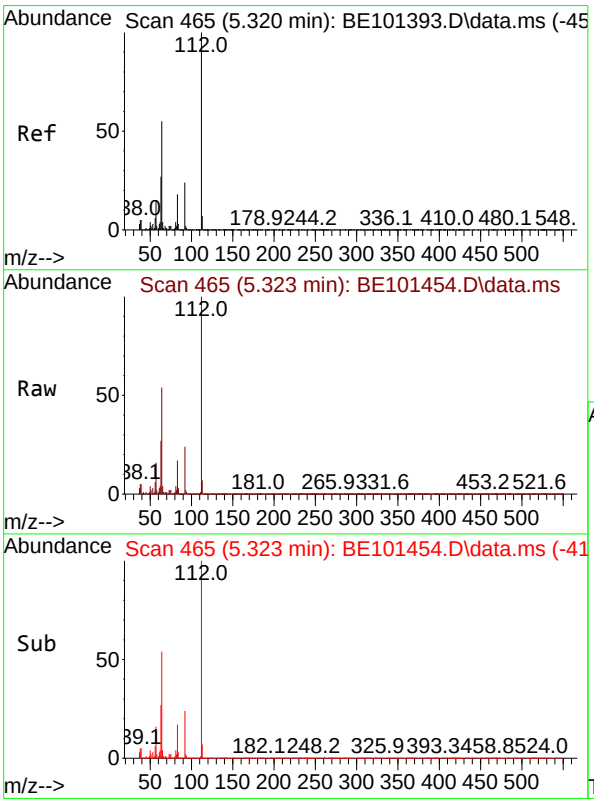
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.573 min Scan# 84
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:152 Resp: 83697

Ion	Ratio	Lower	Upper
152	100		
150	149.4	124.2	186.4
115	55.5	45.3	67.9

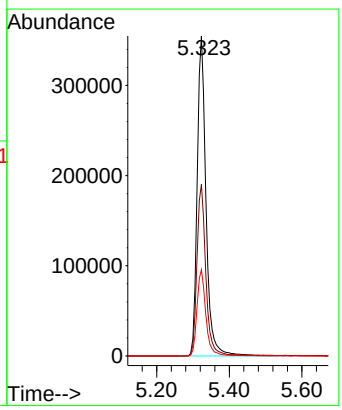


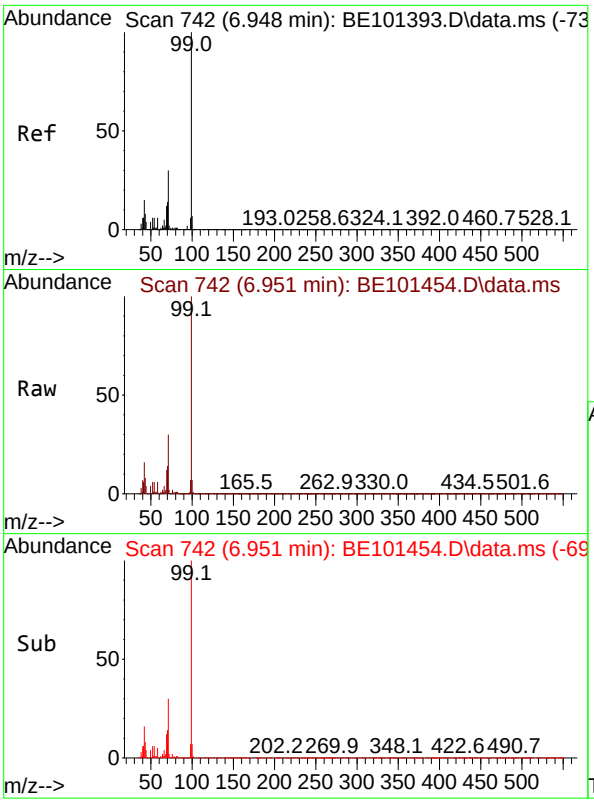


#5
2-Fluorophenol
Concen: 125.548 ng
RT: 5.323 min Scan# 465
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:112 Resp: 599545

Ion	Ratio	Lower	Upper
112	100		
64	53.6	43.7	65.5
63	26.9	21.4	32.2



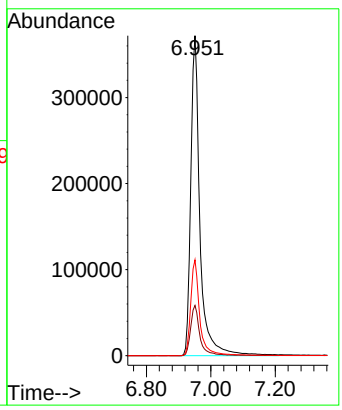


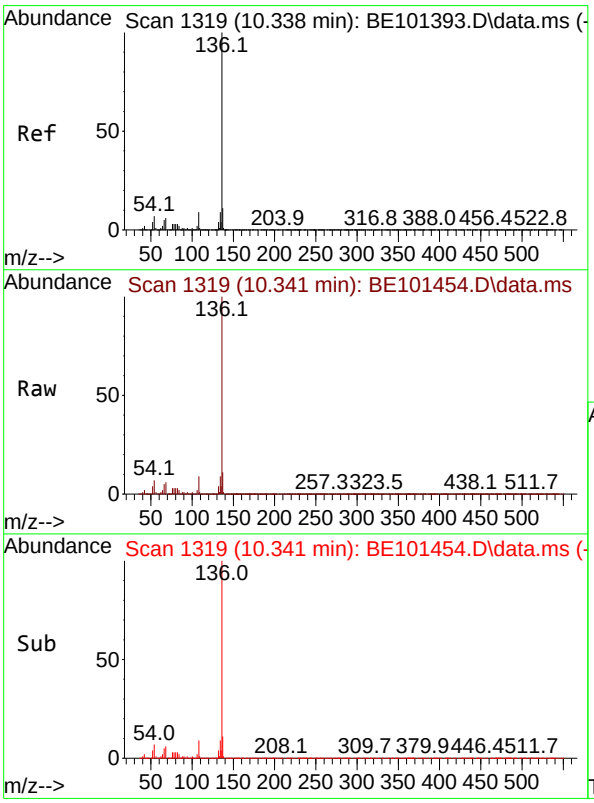
#7
Phenol-d6
Concen: 111.822 ng
RT: 6.951 min Scan# 74
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion: 99 Resp: 740437

Ion	Ratio	Lower	Upper
99	100		
42	15.7	12.3	18.5
71	30.0	23.8	35.8

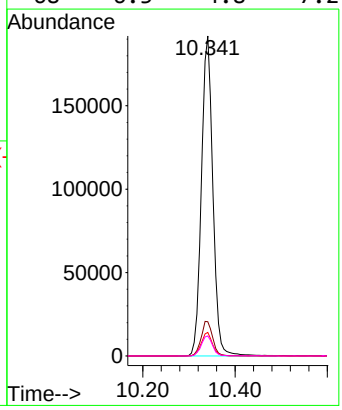


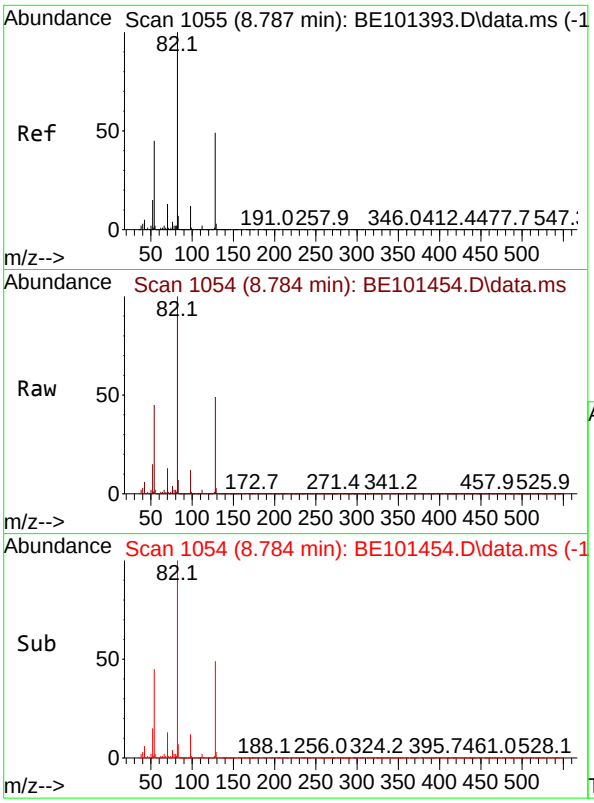


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.341 min Scan# 1319
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:136 Resp: 332383

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.6
54	7.3	5.9	8.9
68	6.3	4.8	7.2



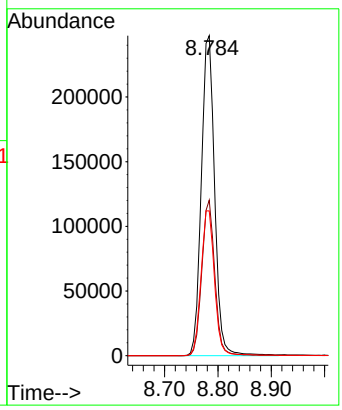


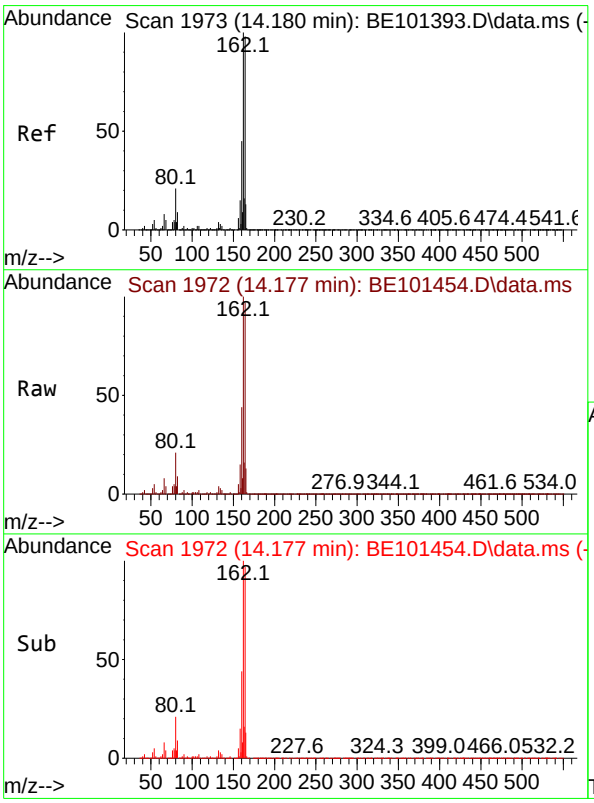
#23
Nitrobenzene-d5
Concen: 81.009 ng
RT: 8.784 min Scan# 1
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion: 82 Resp: 428697

Ion	Ratio	Lower	Upper
82	100		
128	48.6	38.9	58.3
54	45.3	36.2	54.4

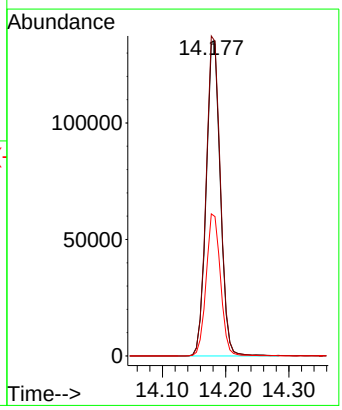


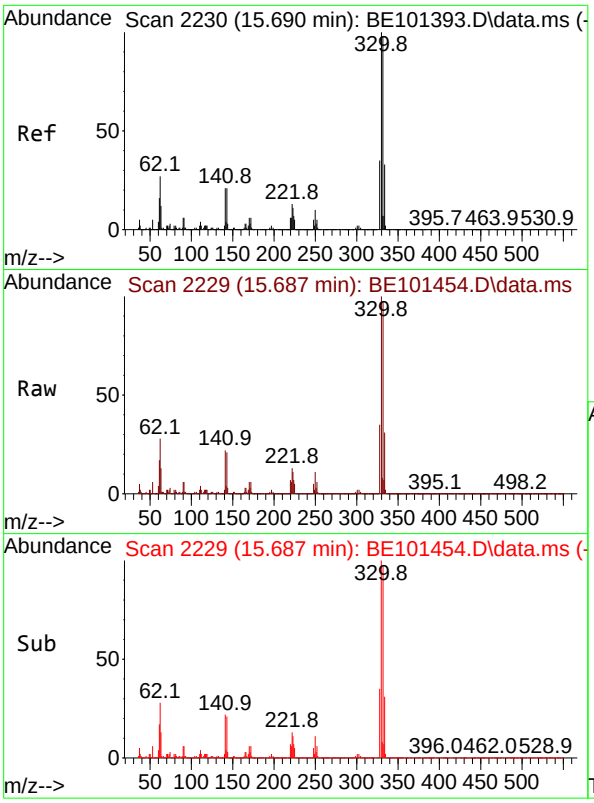


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.177 min Scan# 1972
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:164 Resp: 209474

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	45.5	36.4	54.6



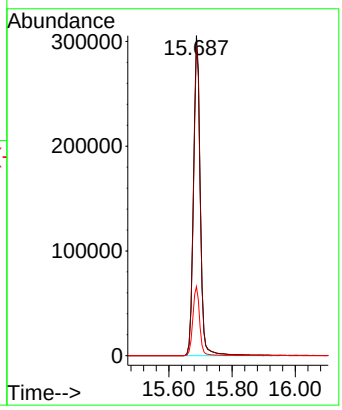


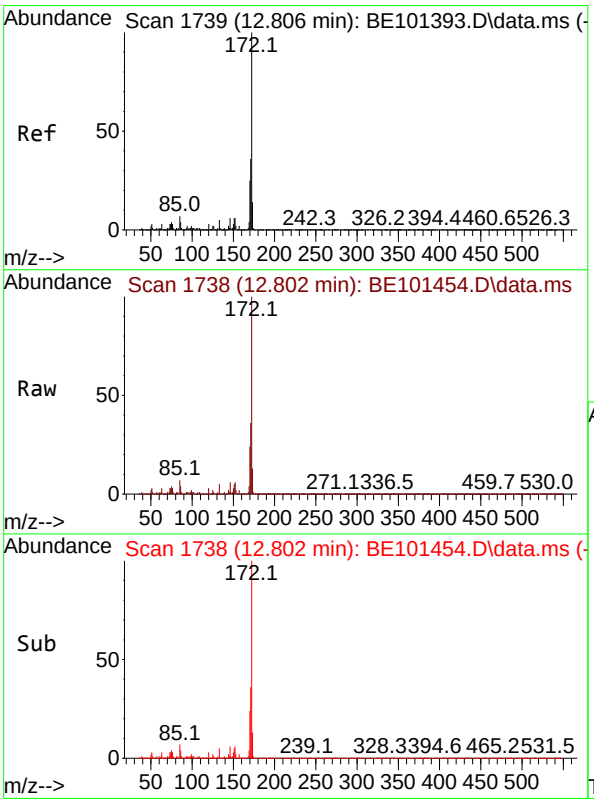
#42
2,4,6-Tribromophenol
Concen: 125.173 ng
RT: 15.687 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:330 Resp: 459560

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.2	117.2
141	21.8	18.3	27.5

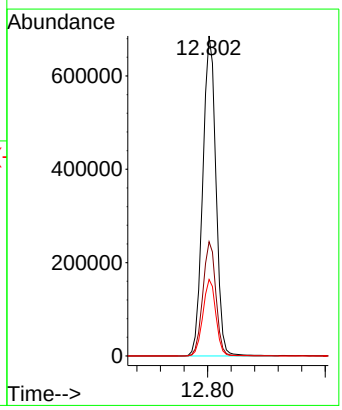


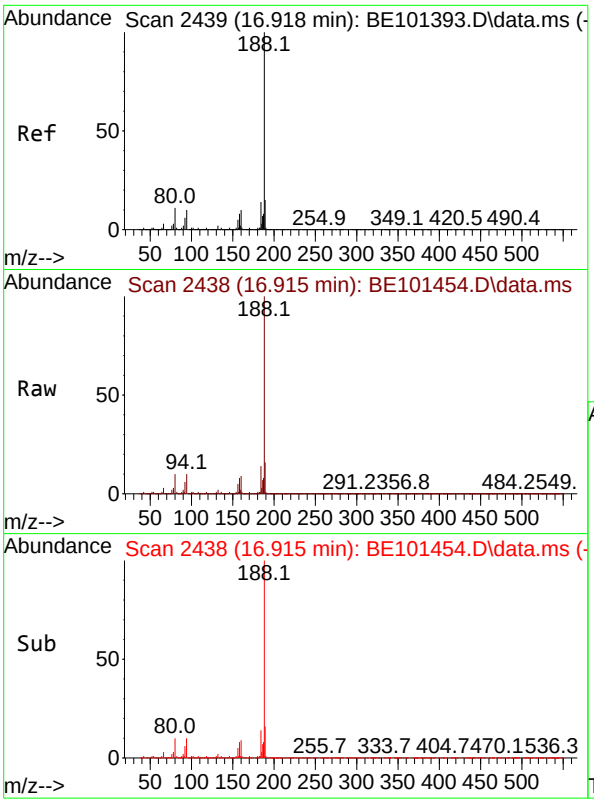


#45
2-Fluorobiphenyl
Concen: 86.319 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:172 Resp: 1067682

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.2	43.8
170	23.9	19.8	29.6



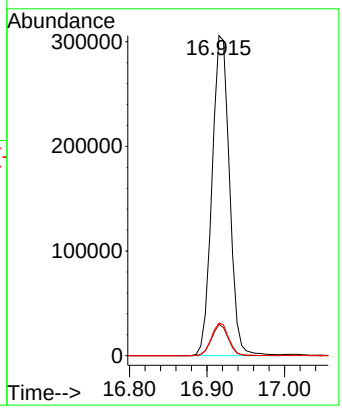


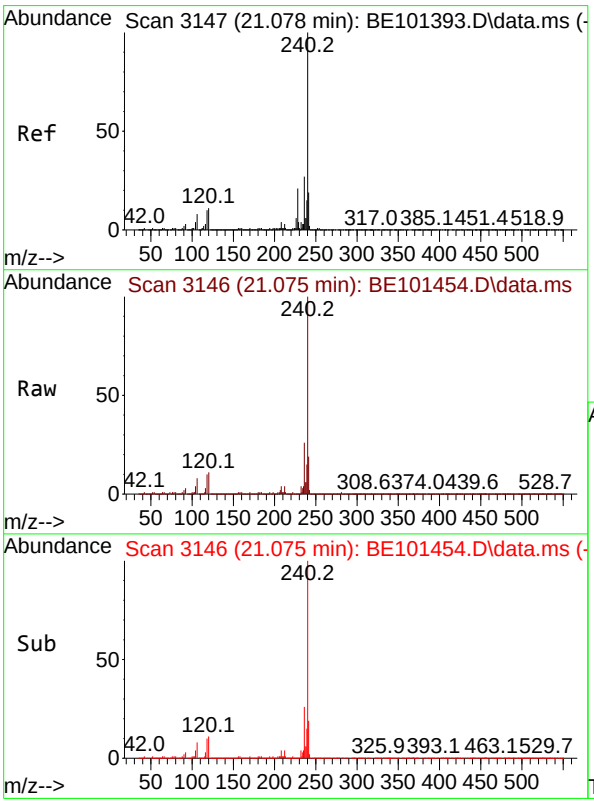
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.915 min Scan# 24
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:188 Resp: 478774

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.8	11.8
80	10.2	8.6	12.8

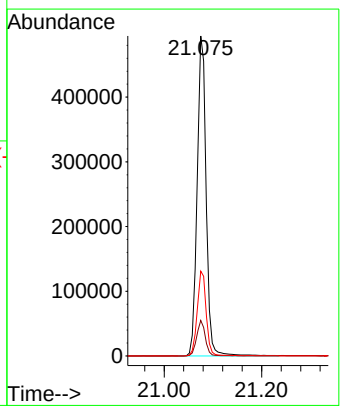


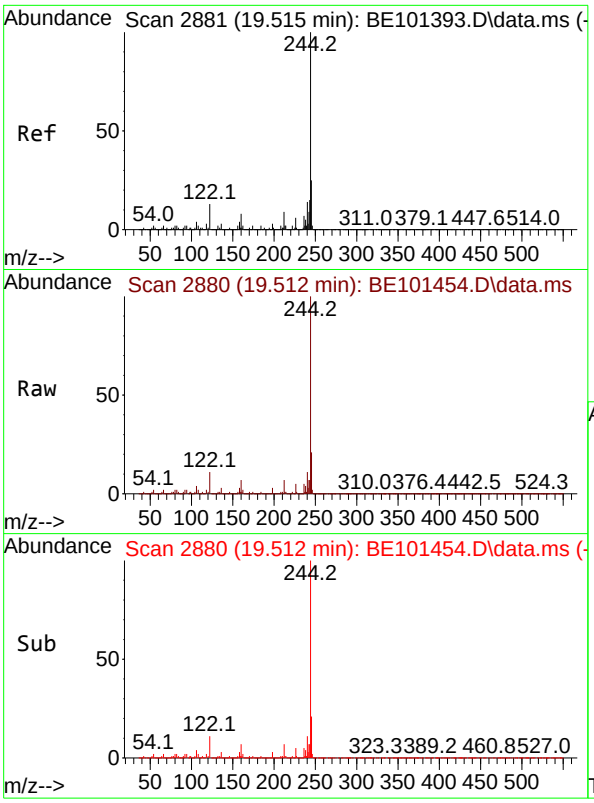


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.075 min Scan# 3146
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:240 Resp: 637683

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	26.5	21.4	32.0



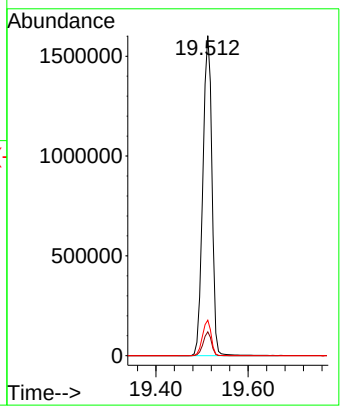


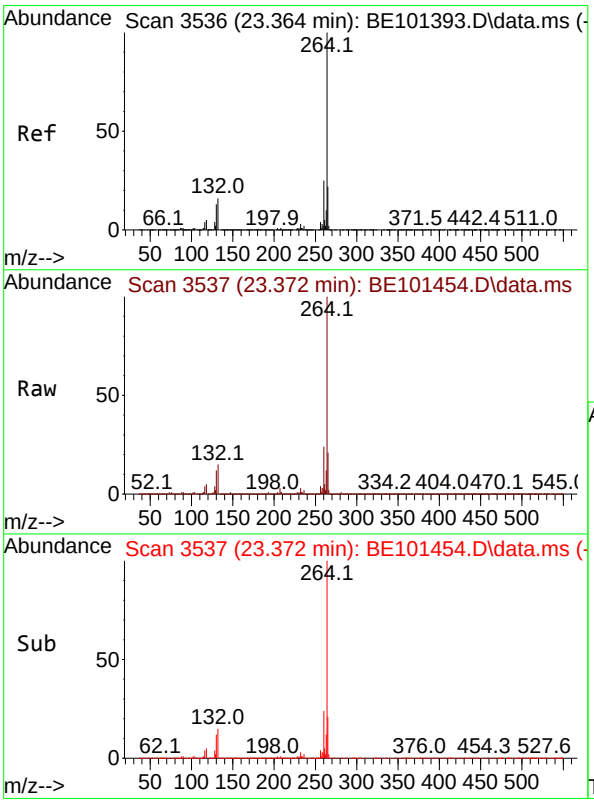
#79
Terphenyl-d14
Concen: 80.071 ng
RT: 19.512 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:244 Resp: 2218492

Ion	Ratio	Lower	Upper
244	100		
212	7.4	7.2	10.8
122	11.1	10.4	15.6

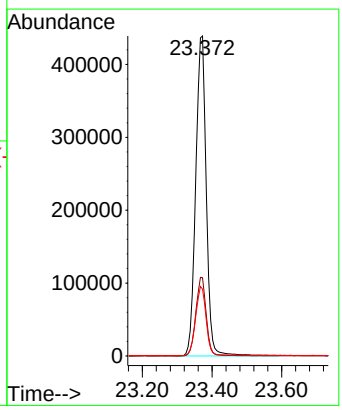




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.372 min Scan# 3537
Delta R.T. 0.009 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:264 Resp: 926419

Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.8	29.8
265	20.9	17.6	26.4



Raw Data: **BE101455.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	360		180	330	ug/Kg
108-95-2	Phenol	1700		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	170	ug/Kg
98-86-2	Acetophenone	1600		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.7	170	ug/Kg
78-59-1	Isophorone	1600		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		75.4	170	ug/Kg
91-20-3	Naphthalene	1600		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	1200		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1700		83.2	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	7100	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1700		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1700		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1800		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.6	170	ug/Kg

Raw Data: **BE101455.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3100	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1600		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.5	170	ug/Kg
86-73-7	Fluorene	1600		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1400		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		84.9	170	ug/Kg
1912-24-9	Atrazine	2100		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1800		83.9	170	ug/Kg
120-12-7	Anthracene	1900		84.3	170	ug/Kg
86-74-8	Carbazole	1700		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1800		84.2	170	ug/Kg
206-44-0	Fluoranthene	1700		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1800		80.6	170	ug/Kg
218-01-9	Chrysene	1800		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2200		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.0	170	ug/Kg

Raw Data: **BE101455.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	158		30 (18) - 130 (112)	105%	SPK: 150
13127-88-3	Phenol-d6	143		30 (15) - 130 (107)	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (18) - 130 (107)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	108		30 (20) - 130 (109)	108%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		30 (10) - 130 (116)	99%	SPK: 150
1718-51-0	Terphenyl-d14	99.2		30 (10) - 130 (105)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	77000	7.571			
1146-65-2	Naphthalene-d8	325000	10.338			
15067-26-2	Acenaphthene-d10	205000	14.18			
1517-22-2	Phenanthrene-d10	424000	16.918			
1719-03-5	Chrysene-d12	509000	21.084			
1520-96-3	Perylene-d12	768000	23.375			

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_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	76985	20.000	ng	0.00
21) Naphthalene-d8	10.338	136	325431	20.000	ng	0.00
39) Acenaphthene-d10	14.180	164	205486	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	423694	20.000	ng	0.00
76) Chrysene-d12	21.084	240	509474	20.000	ng	0.00
86) Perylene-d12	23.375	264	767672	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	693147	157.804	ng	0.00
7) Phenol-d6	6.954	99	871334	143.063	ng	0.00
23) Nitrobenzene-d5	8.787	82	520878	100.531	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	536480	148.960	ng	0.00
45) 2-Fluorobiphenyl	12.806	172	1306116	107.645	ng	0.00
79) Terphenyl-d14	19.515	244	2196084	99.208	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.205	88	70754	43.188	ng	98
3) Pyridine	3.628	79	191248	41.262	ng	96
4) n-Nitrosodimethylamine	3.552	42	91466	51.003	ng	95
6) Aniline	7.006	93	280379	60.068	ng	95
8) 2-Chlorophenol	7.218	128	264019	50.115	ng	100
9) Benzaldehyde	6.783	77	31743	10.796	ng	95
10) Phenol	6.977	94	339596	51.389	ng	98
11) bis(2-Chloroethyl)ether	7.042	93	230338m	42.488	ng	
12) 1,3-Dichlorobenzene	7.459	146	264906	46.632	ng	99
13) 1,4-Dichlorobenzene	7.606	146	271166	46.744	ng	98
14) 1,2-Dichlorobenzene	7.935	146	261397	46.034	ng	99
15) Benzyl Alcohol	7.911	79	172649	47.555	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.070	45	313270	45.918	ng	99
17) 2-Methylphenol	8.158	107	209978	46.947	ng	97
18) Hexachloroethane	8.628	117	91892	48.506	ng	99
19) n-Nitroso-di-n-propyla...	8.375	70	178737	44.224	ng	99
20) 3+4-Methylphenols	8.493	107	284028	46.005	ng	98
22) Acetophenone	8.422	105	353960	47.902	ng	99
24) Nitrobenzene	8.822	77	259578	47.071	ng	99
25) Isophorone	9.274	82	483008	47.772	ng	99
26) 2-Nitrophenol	9.509	139	144486	54.209	ng	98
27) 2,4-Dimethylphenol	9.627	122	211356	63.017	ng	99
28) bis(2-Chloroethoxy)met...	9.774	93	297209	48.472	ng	99
29) 2,4-Dichlorophenol	10.062	162	242384	52.238	ng	98
30) 1,2,4-Trichlorobenzene	10.185	180	238677	47.219	ng	99
31) Naphthalene	10.391	128	784503	47.306	ng	100
32) Benzoic acid	9.897	122	60872	22.839	ng	98
33) 4-Chloroaniline	10.614	127	199490	34.594	ng	99
34) Hexachlorobutadiene	10.637	225	148547	49.649	ng	99
35) Caprolactam	11.401	113	78529m	44.152	ng	
36) 4-Chloro-3-methylphenol	11.795	107	248562	47.048	ng	100
37) 2-Methylnaphthalene	11.977	142	556424	46.572	ng	99
38) 1-Methylnaphthalene	12.206	142	519077	43.531	ng	99
40) 1,2,4,5-Tetrachloroben...	12.336	216	271384	52.610	ng	99
41) Hexachlorocyclopentadiene	12.318	237	362645	212.866	ng	98
43) 2,4,6-Trichlorophenol	12.659	196	195477	54.969	ng	99

Sample Results: **BE101455.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.759	196	212637	52.215	ng	99
46) 1,1'-Biphenyl	13.011	154	719065	51.077	ng	99
47) 2-Chloronaphthalene	13.058	162	552759	49.697	ng	99
48) 2-Nitroaniline	13.387	65	157481	52.611	ng	95
49) Acenaphthylene	13.916	152	893146	54.300	ng	99
50) Dimethylphthalate	13.687	163	714638	49.270	ng	100
51) 2,6-Dinitrotoluene	13.828	165	156801	46.824	ng	95
52) Acenaphthene	14.245	154	537431	50.038	ng	99
53) 3-Nitroaniline	14.233	138	114689	34.442	ng	99
54) 2,4-Dinitrophenol	14.374	184	196055	82.228	ng	98
55) Dibenzofuran	14.586	168	847461	49.505	ng	99
56) 4-Nitrophenol	14.662	139	285451	93.609	ng	98
57) 2,4-Dinitrotoluene	14.609	165	222670	48.298	ng	98
58) Fluorene	15.226	166	695686	48.579	ng	98
59) 2,3,4,6-Tetrachlorophenol	14.856	232	191796	50.975	ng	98
60) Diethylphthalate	15.015	149	720038	47.460	ng	99
61) 4-Chlorophenyl-phenyle...	15.214	204	342444	48.188	ng	100
62) 4-Nitroaniline	15.426	138	160219	43.240	ng	98
63) Azobenzene	15.508	77	633307	48.563	ng	100
65) 4,6-Dinitro-2-methylph...	15.355	198	129900	52.175	ng	98
66) n-Nitrosodiphenylamine	15.461	169	615362	54.767	ng	100
67) 4-Bromophenyl-phenylether	16.102	248	237916	53.381	ng	95
68) Hexachlorobenzene	16.207	284	304031	52.043	ng	98
69) Atrazine	16.401	200	220213	63.929	ng	99
70) Pentachlorophenol	16.619	266	344687	102.503	ng	99
71) Phenanthrene	16.959	178	1077835	53.132	ng	98
72) Anthracene	17.048	178	1115084	56.294	ng	99
73) Carbazole	17.377	167	1030100	50.825	ng	99
74) Di-n-butylphthalate	17.823	149	1219240	54.644	ng	98
75) Fluoranthene	18.969	202	1269285	51.516	ng	97
77) Benzidine	19.216	184	668255	103.348	ng	99
78) Pyrene	19.339	202	1355159	48.369	ng	96
80) Butylbenzylphthalate	20.185	149	631301	51.399	ng	98
81) Benzo(a)anthracene	21.061	228	1556464	54.354	ng	97
82) 3,3'-Dichlorobenzidine	21.037	252	486539	43.373	ng	99
83) Chrysene	21.119	228	1485431	53.651	ng	96
84) Bis(2-ethylhexyl)phtha...	20.884	149	962224	58.972	ng	98
85) Di-n-octyl phthalate	21.736	149	1800783	67.243	ng	99
87) Indeno(1,2,3-cd)pyrene	25.720	276	2812176	54.737	ng	99
88) Benzo(b)fluoranthene	22.665	252	2045650	51.133	ng	98
89) Benzo(k)fluoranthene	22.712	252	1887959	50.512	ng	97
90) Benzo(a)pyrene	23.270	252	1952639	55.809	ng	99
91) Dibenzo(a,h)anthracene	25.708	278	2310859	54.435	ng	99
92) Benzo(g,h,i)perylene	26.466	276	2172231	49.662	ng	99

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

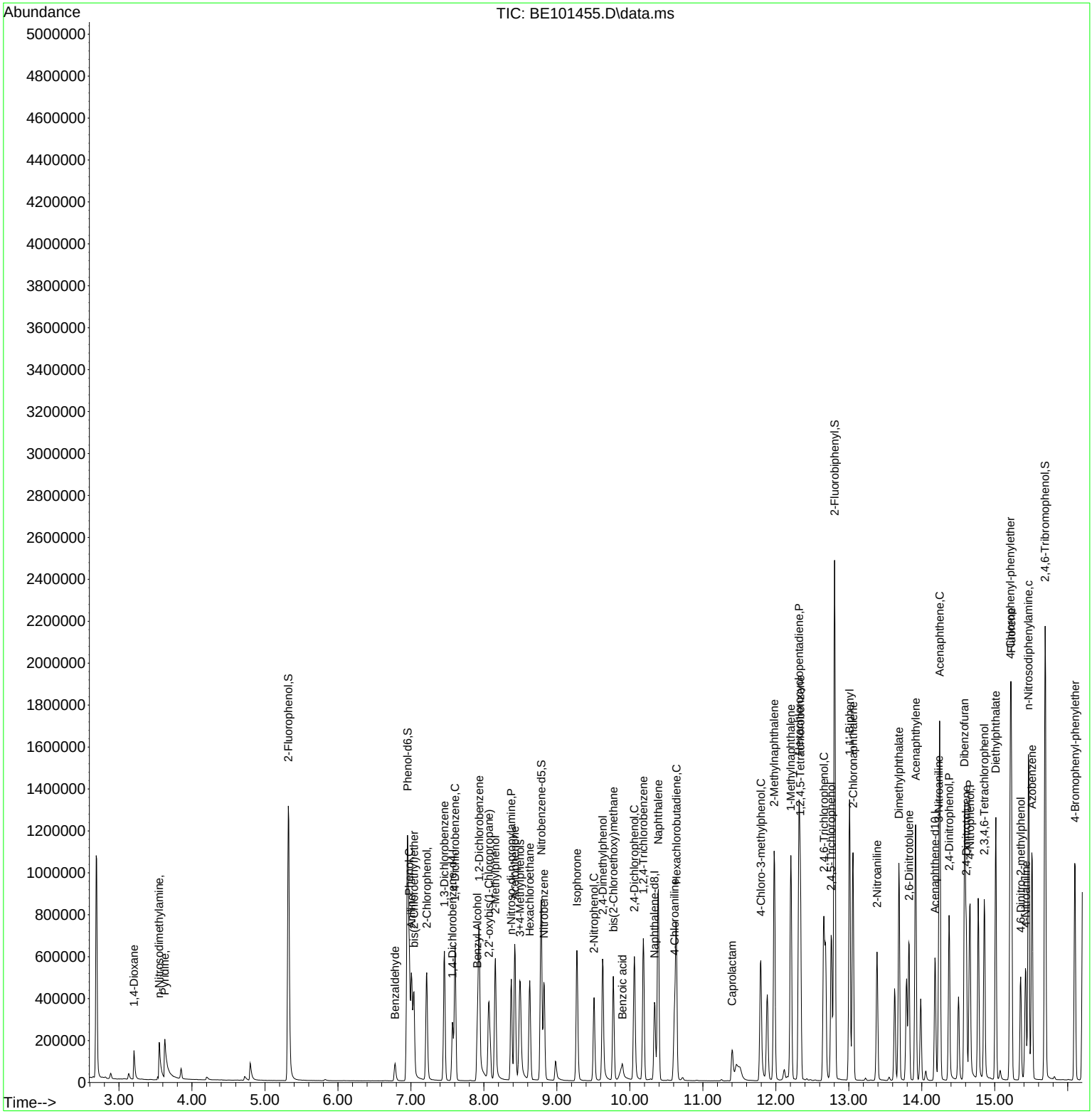
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



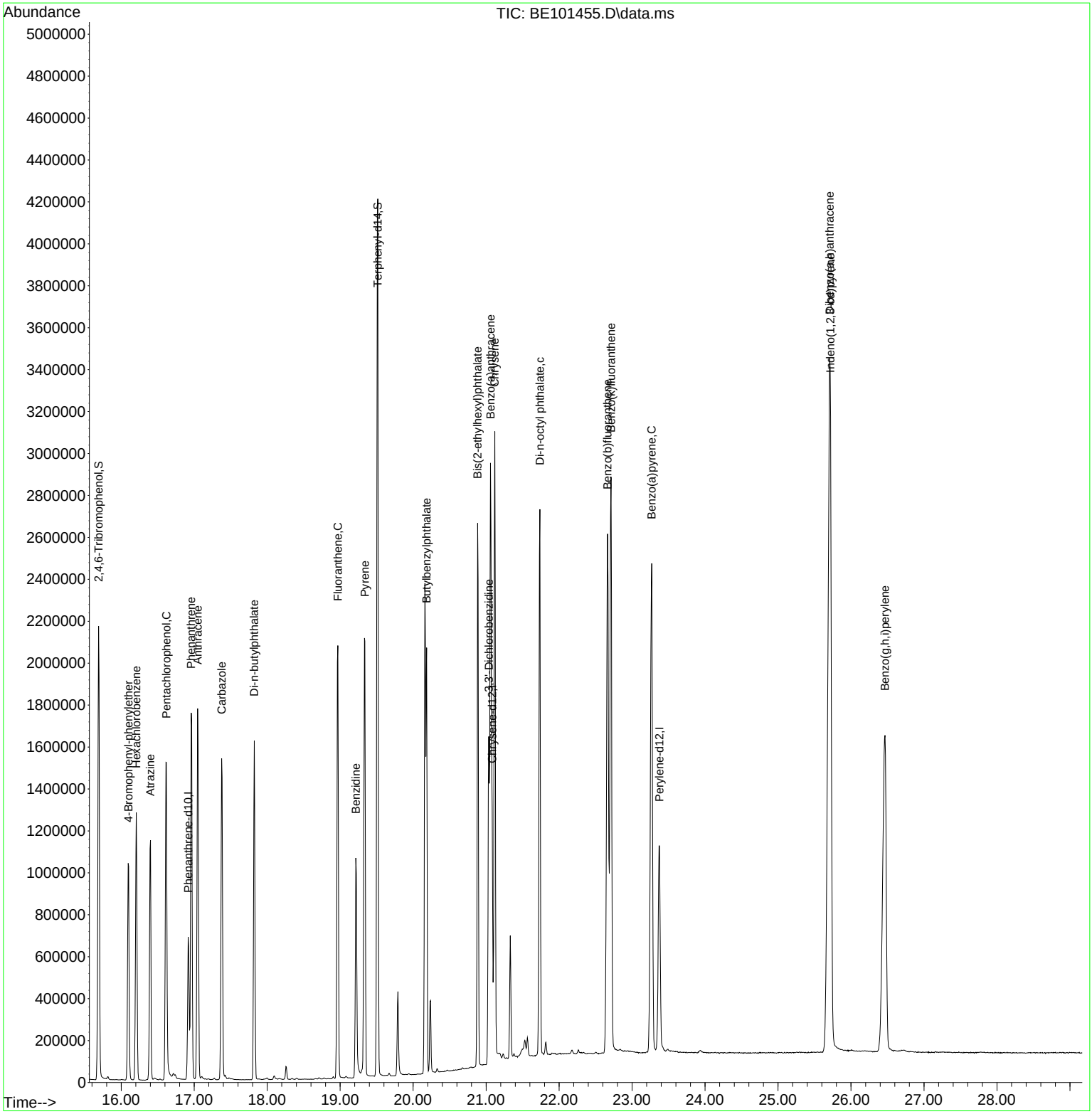
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Raw Data: **BF140209.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	460		200	360	ug/Kg
108-95-2	Phenol	1800		90.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		91.5	190	ug/Kg
95-57-8	2-Chlorophenol	1900		91.3	190	ug/Kg
95-48-7	2-Methylphenol	1900		88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		99.4	190	ug/Kg
98-86-2	Acetophenone	1700		95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	1800		87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	1800		90.8	190	ug/Kg
98-95-3	Nitrobenzene	1800		99.3	190	ug/Kg
78-59-1	Isophorone	1900		92.5	190	ug/Kg
88-75-5	2-Nitrophenol	2200		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		82.6	190	ug/Kg
91-20-3	Naphthalene	1800		90.3	190	ug/Kg
106-47-8	4-Chloroaniline	770		90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		91.1	190	ug/Kg
105-60-2	Caprolactam	1900		94.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		84.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	1800		90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5900	E	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		91.1	190	ug/Kg
88-74-4	2-Nitroaniline	2100		100	190	ug/Kg
131-11-3	Dimethylphthalate	1900		89.3	190	ug/Kg

Raw Data: **BF140209.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		91.0	190	ug/Kg
99-09-2	3-Nitroaniline	1300		97.5	190	ug/Kg
83-32-9	Acenaphthene	2000		88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4700	E	270	360	ug/Kg
100-02-7	4-Nitrophenol	3900	E	130	360	ug/Kg
132-64-9	Dibenzofuran	1800		92.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		94.3	190	ug/Kg
84-66-2	Diethylphthalate	1900		87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		93.6	190	ug/Kg
86-73-7	Fluorene	1800		93.5	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2500		130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		92.9	190	ug/Kg
1912-24-9	Atrazine	2200		99.9	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	84.5	360	ug/Kg
85-01-8	Phenanthrene	1800		91.9	190	ug/Kg
120-12-7	Anthracene	1800		92.3	190	ug/Kg
86-74-8	Carbazole	1700		87.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		92.2	190	ug/Kg
206-44-0	Fluoranthene	1700		89.3	190	ug/Kg
129-00-0	Pyrene	1900		90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	2700		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		110	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		88.2	190	ug/Kg
218-01-9	Chrysene	1900		86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3000	E	99.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		88.7	190	ug/Kg

Raw Data: **BF140209.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	2000		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		85.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		94.9	190	ug/Kg
123-91-1	1,4-Dioxane	1500		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	104		30 (15) - 130 (107)	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.4		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.9		30 (20) - 130 (109)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	111		30 (10) - 130 (116)	74%	SPK: 150
1718-51-0	Terphenyl-d14	86.3		30 (10) - 130 (105)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	6.887			
1146-65-2	Naphthalene-d8	437000	8.163			
15067-26-2	Acenaphthene-d10	251000	9.928			
1517-22-2	Phenanthrene-d10	454000	11.422			
1719-03-5	Chrysene-d12	224000	14.074			
1520-96-3	Perylene-d12	232000	15.568			

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: **BF140209.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	109344	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	436831	20.000	ng		-0.01
39) Acenaphthene-d10	9.928	164	250775	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	453631	20.000	ng		0.00
76) Chrysene-d12	14.074	240	223586	20.000	ng		0.02
86) Perylene-d12	15.568	264	232464	20.000	ng		0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	724961	103.793	ng		0.01
7) Phenol-d6	6.510	99	940607	103.977	ng		0.00
23) Nitrobenzene-d5	7.445	82	641831	81.433	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	260711	111.146	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1151750	75.904	ng		0.00
79) Terphenyl-d14	13.010	244	1184293	86.311	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.752	88	129899	39.888	ng		98
3) Pyridine	3.504	79	324457	40.195	ng		96
4) n-Nitrosodimethylamine	3.457	42	206659	47.651	ng	#	91
6) Aniline	6.545	93	340812	40.424	ng		97
8) 2-Chlorophenol	6.669	128	365786	51.227	ng		98
9) Benzaldehyde	6.434	77	64850	12.743	ng		98
10) Phenol	6.528	94	467149m	50.090	ng		
11) bis(2-Chloroethyl)ether	6.622	93	355594	49.330	ng		98
12) 1,3-Dichlorobenzene	6.828	146	390215	47.607	ng		100
13) 1,4-Dichlorobenzene	6.904	146	392139	47.886	ng		100
14) 1,2-Dichlorobenzene	7.051	146	375795	49.170	ng		100
15) Benzyl Alcohol	7.022	79	351797	53.015	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.157	45	638462	51.943	ng		99
17) 2-Methylphenol	7.134	107	310623	51.017	ng		97
18) Hexachloroethane	7.398	117	142700	48.867	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	276540	50.403	ng		99
20) 3+4-Methylphenols	7.287	107	376610	48.359	ng	#	77
22) Acetophenone	7.292	105	510174	47.682	ng		97
24) Nitrobenzene	7.463	77	421988	48.833	ng		99
25) Isophorone	7.704	82	763314	51.026	ng		99
26) 2-Nitrophenol	7.781	139	195206	59.879	ng		98
27) 2,4-Dimethylphenol	7.816	122	308534	56.758	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	445939	49.202	ng		99
29) 2,4-Dichlorophenol	8.022	162	310304	50.117	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	317160	46.293	ng		99
31) Naphthalene	8.187	128	1093246	48.526	ng		100
32) Benzoic acid	7.934	122	220440	46.495	ng		100
33) 4-Chloroaniline	8.234	127	162025	21.091	ng		99
34) Hexachlorobutadiene	8.304	225	211631	49.163	ng		98
35) Caprolactam	8.610	113	103436m	52.539	ng		
36) 4-Chloro-3-methylphenol	8.716	107	349680	51.004	ng		99
37) 2-Methylnaphthalene	8.881	142	694334	50.322	ng		100
38) 1-Methylnaphthalene	8.981	142	644168	47.585	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	331887	49.056	ng		99
41) Hexachlorocyclopentadiene	9.034	237	382117	162.321	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	242443	50.615	ng		99

Sample Results: **BF140209.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	9.204	196	241760	48.921	ng		99
46)	1,1'-Biphenyl	9.345	154	845728	48.445	ng		99
47)	2-Chloronaphthalene	9.369	162	669578	47.621	ng		98
48)	2-Nitroaniline	9.469	65	247721	57.605	ng		98
49)	Acenaphthylene	9.792	152	1054552	51.878	ng		99
50)	Dimethylphthalate	9.651	163	803664	51.450	ng		100
51)	2,6-Dinitrotoluene	9.710	165	176490	52.184	ng		96
52)	Acenaphthene	9.963	154	734613	55.865	ng		99
53)	3-Nitroaniline	9.881	138	120242	34.475	ng		96
54)	2,4-Dinitrophenol	9.992	184	186032	128.114	ng	#	1
55)	Dibenzofuran	10.139	168	919276	48.725	ng		99
56)	4-Nitrophenol	10.045	139	284253	105.933	ng		93
57)	2,4-Dinitrotoluene	10.122	165	243168	58.467	ng		96
58)	Fluorene	10.480	166	713514	49.653	ng		99
59)	2,3,4,6-Tetrachlorophenol	10.257	232	201098	51.908	ng		99
60)	Diethylphthalate	10.357	149	792783	51.692	ng		100
61)	4-Chlorophenyl-phenyle...	10.469	204	359435	49.530	ng		98
62)	4-Nitroaniline	10.504	138	177917	54.011	ng		96
63)	Azobenzene	10.633	77	941594	57.911	ng		96
65)	4,6-Dinitro-2-methylph...	10.528	198	128815	69.617	ng		98
66)	n-Nitrosodiphenylamine	10.592	169	661283	48.706	ng		99
67)	4-Bromophenyl-phenylether	10.963	248	230172	49.253	ng		97
68)	Hexachlorobenzene	11.028	284	250093	47.584	ng		98
69)	Atrazine	11.122	200	219710	59.739	ng		99
70)	Pentachlorophenol	11.227	266	300666	94.258	ng		99
71)	Phenanthrene	11.445	178	1043455	48.697	ng		100
72)	Anthracene	11.498	178	1057230	50.569	ng		100
73)	Carbazole	11.651	167	926239	47.637	ng		99
74)	Di-n-butylphthalate	11.980	149	1188190	52.893	ng		100
75)	Fluoranthene	12.639	202	1039398	47.983	ng		99
77)	Benzidine	12.763	184	323149	87.896	ng		98
78)	Pyrene	12.869	202	1044880	53.389	ng		100
80)	Butylbenzylphthalate	13.486	149	434089	73.982	ng		96
81)	Benzo(a)anthracene	14.063	228	727202	49.963	ng		99
82)	3,3'-Dichlorobenzidine	14.021	252	168586	39.727	ng		97
83)	Chrysene	14.098	228	683337	51.206	ng		100
84)	Bis(2-ethylhexyl)phtha...	14.051	149	546086	82.954	ng		99
85)	Di-n-octyl phthalate	14.668	149	775336	64.753	ng		99
87)	Indeno(1,2,3-cd)pyrene	17.098	276	765016	51.155	ng		98
88)	Benzo(b)fluoranthene	15.127	252	713676	50.398	ng		100
89)	Benzo(k)fluoranthene	15.157	252	573519	46.962	ng		100
90)	Benzo(a)pyrene	15.504	252	630220	54.087	ng		100
91)	Dibenzo(a,h)anthracene	17.121	278	624384	50.048	ng		98
92)	Benzo(g,h,i)perylene	17.562	276	554578	44.503	ng		98

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

Sample Results: **BF140209.D**

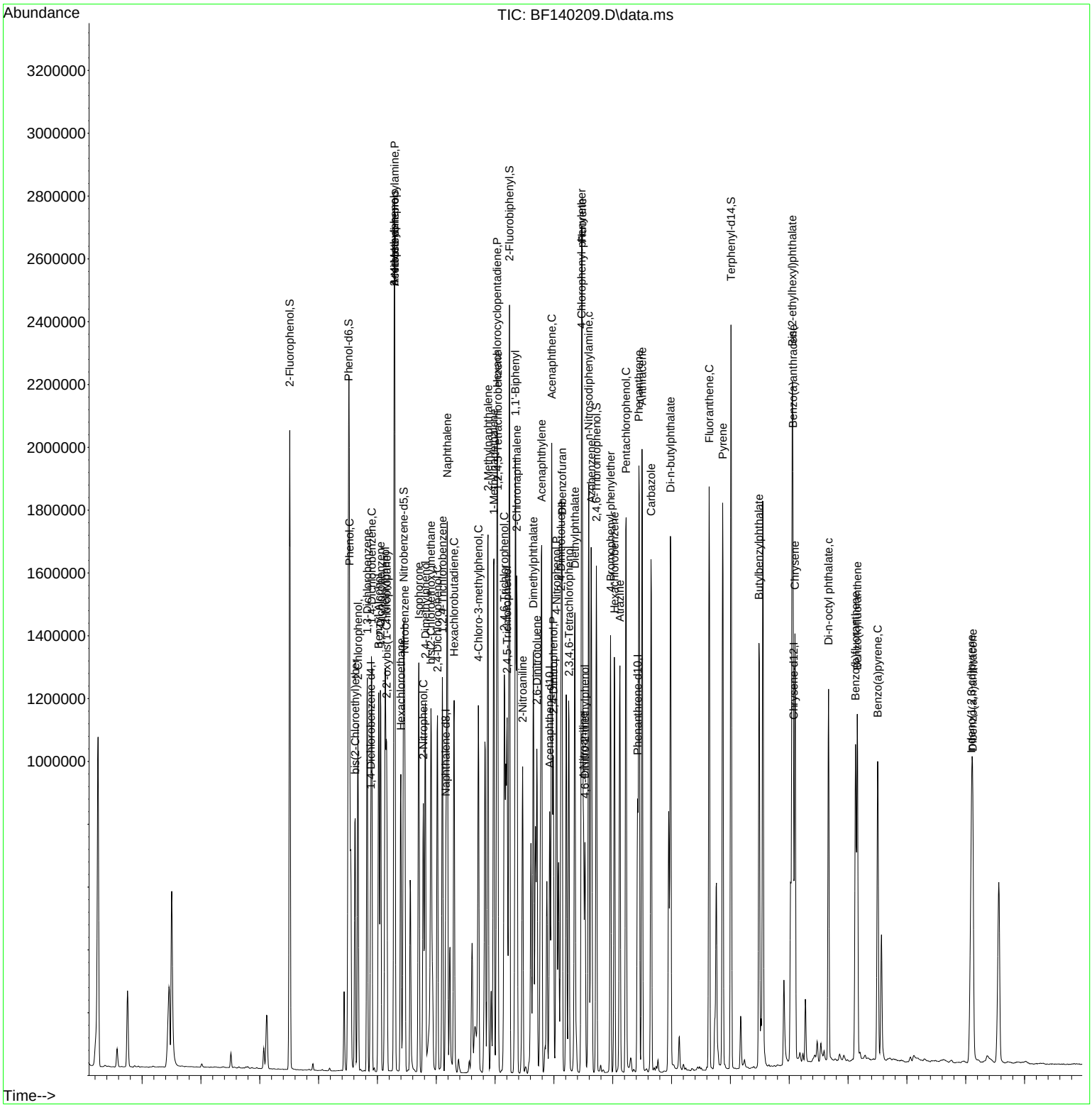
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Raw Data: **BF140210.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	480		200	360	ug/Kg
108-95-2	Phenol	1900		90.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		91.5	190	ug/Kg
95-57-8	2-Chlorophenol	2000		91.2	190	ug/Kg
95-48-7	2-Methylphenol	2000		88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		99.3	190	ug/Kg
98-86-2	Acetophenone	1800		95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	1900		87.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		44.0	87.4	ug/Kg
67-72-1	Hexachloroethane	1900		90.7	190	ug/Kg
98-95-3	Nitrobenzene	1900		99.2	190	ug/Kg
78-59-1	Isophorone	2000		92.4	190	ug/Kg
88-75-5	2-Nitrophenol	2300		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1900		93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		82.5	190	ug/Kg
91-20-3	Naphthalene	1900		90.3	190	ug/Kg
106-47-8	4-Chloroaniline	820		90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1900		91.0	190	ug/Kg
105-60-2	Caprolactam	1900		94.8	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		84.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	1900		90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6100	E	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		78.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		95.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	1800		91.0	190	ug/Kg
88-74-4	2-Nitroaniline	2200		100	190	ug/Kg
131-11-3	Dimethylphthalate	2000		89.3	190	ug/Kg

Raw Data: **BF140210.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2000		94.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		90.9	190	ug/Kg
99-09-2	3-Nitroaniline	1300		97.5	190	ug/Kg
83-32-9	Acenaphthene	2100		88.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4800	E	270	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	130	360	ug/Kg
132-64-9	Dibenzofuran	1900		92.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2300		94.2	190	ug/Kg
84-66-2	Diethylphthalate	2000		87.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		93.5	190	ug/Kg
86-73-7	Fluorene	1900		93.4	190	ug/Kg
100-01-6	4-Nitroaniline	2100		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2700		130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		86.2	190	ug/Kg
118-74-1	Hexachlorobenzene	1900		92.9	190	ug/Kg
1912-24-9	Atrazine	2300		99.9	190	ug/Kg
87-86-5	Pentachlorophenol	3700	E	84.5	360	ug/Kg
85-01-8	Phenanthrene	1900		91.8	190	ug/Kg
120-12-7	Anthracene	2000		92.2	190	ug/Kg
86-74-8	Carbazole	1900		87.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	2100		92.1	190	ug/Kg
206-44-0	Fluoranthene	1900		89.3	190	ug/Kg
129-00-0	Pyrene	2100		90.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	3000	E	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		110	360	ug/Kg
56-55-3	Benzo(a)anthracene	2000		88.2	190	ug/Kg
218-01-9	Chrysene	2000		86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3300	E	99.4	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2600		120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		88.6	190	ug/Kg

Raw Data: **BF140210.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	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 :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	2100		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		85.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		88.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		87.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		94.8	190	ug/Kg
123-91-1	1,4-Dioxane	1500		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		81.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		30 (18) - 130 (112)	73%	SPK: 150
13127-88-3	Phenol-d6	111		30 (15) - 130 (107)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.4		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.7		30 (20) - 130 (109)	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		30 (10) - 130 (116)	80%	SPK: 150
1718-51-0	Terphenyl-d14	94.8		30 (10) - 130 (105)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	103000	6.887			
1146-65-2	Naphthalene-d8	410000	8.163			
15067-26-2	Acenaphthene-d10	235000	9.927			
1517-22-2	Phenanthrene-d10	418000	11.422			
1719-03-5	Chrysene-d12	200000	14.074			
1520-96-3	Perylene-d12	218000	15.568			

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: **BF140210.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	103190	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	410116	20.000	ng		-0.01
39) Acenaphthene-d10	9.927	164	235405	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	418261	20.000	ng		0.00
76) Chrysene-d12	14.074	240	199568	20.000	ng		0.02
86) Perylene-d12	15.568	264	218473	20.000	ng		0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	719985	109.228	ng		0.01
7) Phenol-d6	6.510	99	944685	110.656	ng		0.00
23) Nitrobenzene-d5	7.445	82	639376	86.406	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	263991	119.892	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1149538	80.705	ng		0.00
79) Terphenyl-d14	13.010	244	1161598	94.845	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	130135	42.344	ng		100
3) Pyridine	3.498	79	326485	42.858	ng		96
4) n-Nitrosodimethylamine	3.457	42	202155	49.392	ng	#	93
6) Aniline	6.545	93	340681	42.818	ng		97
8) 2-Chlorophenol	6.669	128	364924	54.155	ng		99
9) Benzaldehyde	6.434	77	62888	13.095	ng		98
10) Phenol	6.528	94	468692m	53.252	ng		
11) bis(2-Chloroethyl)ether	6.622	93	359602	52.861	ng		99
12) 1,3-Dichlorobenzene	6.828	146	389641	50.372	ng		100
13) 1,4-Dichlorobenzene	6.904	146	390095	50.478	ng		99
14) 1,2-Dichlorobenzene	7.051	146	376768	52.237	ng		100
15) Benzyl Alcohol	7.022	79	350314	55.940	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.157	45	640758	55.239	ng		99
17) 2-Methylphenol	7.134	107	309878	53.930	ng		97
18) Hexachloroethane	7.398	117	145267	52.712	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	272567	52.642	ng		98
20) 3+4-Methylphenols	7.286	107	378702	51.527	ng	#	78
22) Acetophenone	7.292	105	508774	50.649	ng		96
24) Nitrobenzene	7.463	77	422112	52.029	ng		98
25) Isophorone	7.704	82	759137	54.052	ng		99
26) 2-Nitrophenol	7.781	139	196295	64.135	ng		99
27) 2,4-Dimethylphenol	7.816	122	304549	59.675	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	446725	52.499	ng		99
29) 2,4-Dichlorophenol	8.022	162	310070	53.341	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	322741	50.176	ng		98
31) Naphthalene	8.186	128	1080096	51.065	ng		100
32) Benzoic acid	7.934	122	228012	51.225	ng		99
33) 4-Chloroaniline	8.233	127	162045	22.468	ng		100
34) Hexachlorobutadiene	8.304	225	207187	51.266	ng		100
35) Caprolactam	8.610	113	98252m	53.157	ng		
36) 4-Chloro-3-methylphenol	8.716	107	355329	55.204	ng		100
37) 2-Methylnaphthalene	8.880	142	689267	53.209	ng		99
38) 1-Methylnaphthalene	8.980	142	643338	50.620	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	331042	52.126	ng		99
41) Hexachlorocyclopentadiene	9.033	237	367664	166.379	ng		100
43) 2,4,6-Trichlorophenol	9.157	196	243379	54.128	ng		99

Sample Results: **BF140210.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	242814	52.342	ng		98
46) 1,1'-Biphenyl	9.345	154	838242	51.151	ng		99
47) 2-Chloronaphthalene	9.369	162	660337	50.030	ng		98
48) 2-Nitroaniline	9.469	65	248096	61.459	ng		97
49) Acenaphthylene	9.792	152	1045948	54.815	ng		99
50) Dimethylphthalate	9.651	163	801824	54.684	ng		99
51) 2,6-Dinitrotoluene	9.710	165	178745	56.301	ng		97
52) Acenaphthene	9.963	154	726773	58.878	ng		99
53) 3-Nitroaniline	9.880	138	119203	36.409	ng		99
54) 2,4-Dinitrophenol	9.992	184	178200	130.600	ng	#	1
55) Dibenzofuran	10.133	168	919611	51.925	ng		99
56) 4-Nitrophenol	10.045	139	285108	113.189	ng		93
57) 2,4-Dinitrotoluene	10.122	165	242431	62.095	ng		95
58) Fluorene	10.480	166	718120	53.237	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	198605	54.612	ng		99
60) Diethylphthalate	10.357	149	789983	54.872	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	359820	52.821	ng		98
62) 4-Nitroaniline	10.504	138	175527	56.765	ng		96
63) Azobenzene	10.633	77	941124	61.661	ng		96
65) 4,6-Dinitro-2-methylph...	10.527	198	125776	73.723	ng		98
66) n-Nitrosodiphenylamine	10.592	169	665221	53.139	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	229535	53.270	ng		99
68) Hexachlorobenzene	11.027	284	246586	50.884	ng		96
69) Atrazine	11.122	200	213598	62.988	ng		100
70) Pentachlorophenol	11.227	266	302344	102.800	ng		99
71) Phenanthrene	11.445	178	1041649	52.723	ng		100
72) Anthracene	11.498	178	1056998	54.834	ng		100
73) Carbazole	11.651	167	921781	51.417	ng		99
74) Di-n-butylphthalate	11.980	149	1186133	57.267	ng		99
75) Fluoranthene	12.639	202	1032334	51.687	ng		99
77) Benzidine	12.763	184	336803	102.635	ng		99
78) Pyrene	12.868	202	1012412	57.955	ng		100
80) Butylbenzylphthalate	13.492	149	430637	82.227	ng		100
81) Benzo(a)anthracene	14.063	228	706811	54.407	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	177573	46.880	ng		100
83) Chrysene	14.098	228	662888	55.652	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	533105	90.728	ng		99
85) Di-n-octyl phthalate	14.668	149	758803	70.999	ng		100
87) Indeno(1,2,3-cd)pyrene	17.098	276	741236	52.739	ng		98
88) Benzo(b)fluoranthene	15.127	252	689931	51.842	ng		99
89) Benzo(k)fluoranthene	15.162	252	598776	52.170	ng		99
90) Benzo(a)pyrene	15.504	252	631809	57.696	ng		100
91) Dibenzo(a,h)anthracene	17.121	278	609721	52.002	ng		98
92) Benzo(g,h,i)perylene	17.562	276	533692	45.569	ng		98

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

Sample Results: **BF140210.D**

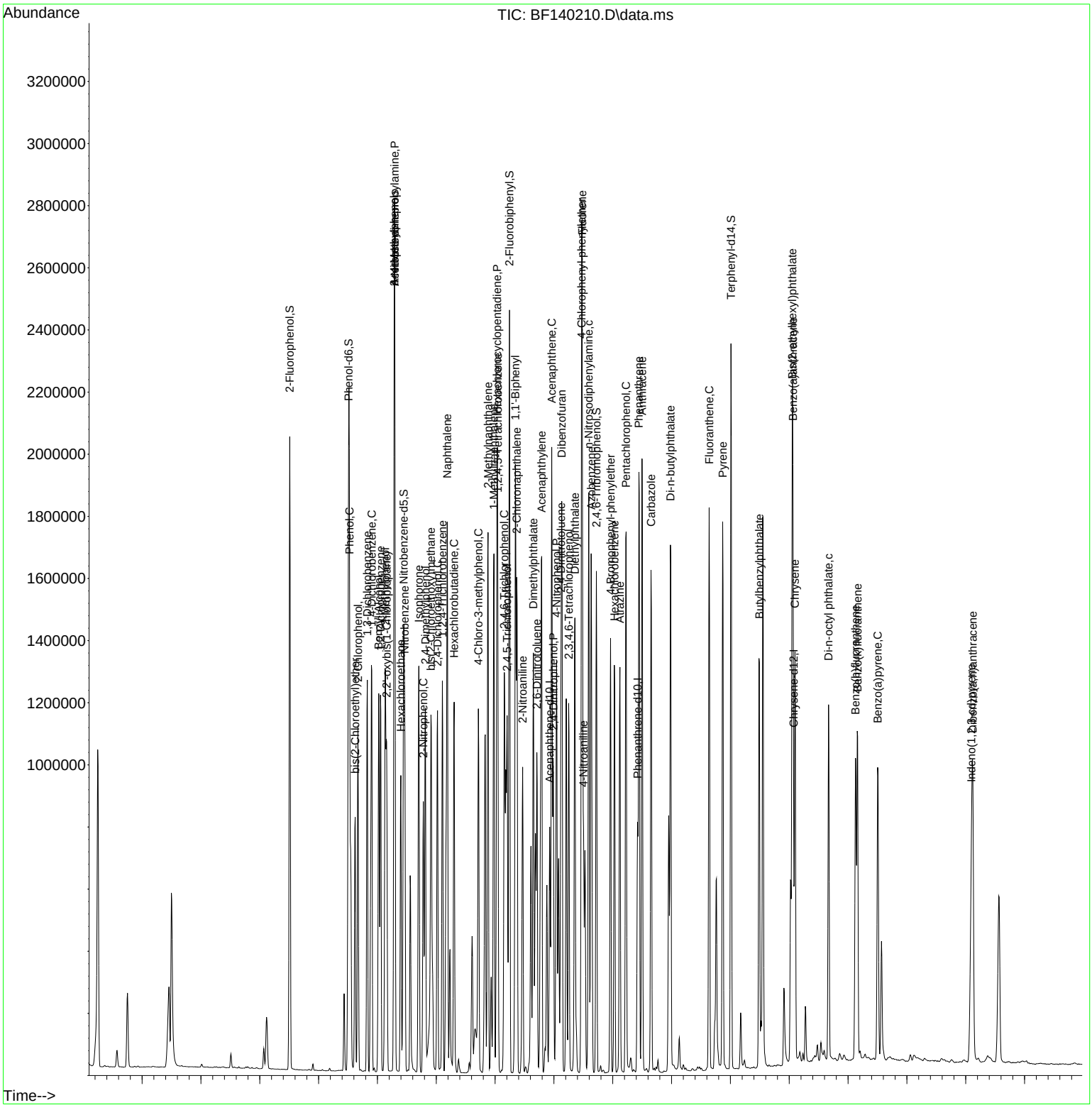
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BE101390.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Caprolactam	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Pyridine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Benzoic acid	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Caprolactam	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Pyridine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	Pyridine	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	Pyridine	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BE101394.D	Caprolactam	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC050	BE101394.D	Pyridine	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Benzo(k)fluoranthene	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Caprolactam	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Pyridine	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Aniline	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Caprolactam	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Pyridine	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Aniline	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Pyridine	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BE110124	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4663-02	BE101450.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:47:10 AM	mohammad	11/4/2024 1:51:32 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	Be110424	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BE101453.D	bis(2-Chloroethyl)ether	Jagrut	11/5/2024 2:11:11 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
SSTDCCC040	BE101453.D	Caprolactam	Jagrut	11/5/2024 2:11:11 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
PB164593BS	BE101455.D	bis(2-Chloroethyl)ether	Jagrut	11/5/2024 2:11:14 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
PB164593BS	BE101455.D	Caprolactam	Jagrut	11/5/2024 2:11:14 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF110124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140200.D	Phenol	yogesh	11/4/2024 1:46:27 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MS	BF140209.D	Caprolactam	yogesh	11/4/2024 1:46:31 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MS	BF140209.D	Phenol	yogesh	11/4/2024 1:46:31 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MSD	BF140210.D	Caprolactam	yogesh	11/4/2024 1:46:32 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MSD	BF140210.D	Phenol	yogesh	11/4/2024 1:46:32 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM				
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM				
SubDirectory	BE102824	HP Acquire Method	BNA_E		HP Processing Method	be102824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101388.D	28 Oct 2024 10:51	RC/JU	Ok
2	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44	RC/JU	Ok
3	SSTDICC005	BE101390.D	28 Oct 2024 12:23	RC/JU	Ok,M
4	SSTDICC010	BE101391.D	28 Oct 2024 12:59	RC/JU	Ok,M
5	SSTDICC020	BE101392.D	28 Oct 2024 13:35	RC/JU	Ok,M
6	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	RC/JU	Ok,M
7	SSTDICC050	BE101394.D	28 Oct 2024 14:49	RC/JU	Ok,M
8	SSTDICC060	BE101395.D	28 Oct 2024 15:25	RC/JU	Ok,M
9	SSTDICC080	BE101396.D	28 Oct 2024 16:01	RC/JU	Ok,M
10	SSTDICV040	BE101397.D	28 Oct 2024 16:37	RC/JU	Ok,M
11	PB164444BL	BE101398.D	28 Oct 2024 17:16	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110124

Review By	yogesh	Review On	11/4/2024 1:47:04 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:51:32 AM				
SubDirectory	BE110124	HP Acquire Method	BNA_E		HP Processing Method	be102824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101443.D	1 Nov 2024 9:05	RC/JU	Ok
2	SSTDCCC040	BE101444.D	1 Nov 2024 9:41	RC/JU	Ok
3	PB164558BL	BE101445.D	1 Nov 2024 10:17	RC/JU	Ok
4	P4616-01MS	BE101446.D	1 Nov 2024 10:58	RC/JU	Ok,M
5	P4616-01MSD	BE101447.D	1 Nov 2024 14:00	RC/JU	Ok,M
6	P4663-06	BE101448.D	1 Nov 2024 14:33	RC/JU	Ok
7	P4645-01	BE101449.D	1 Nov 2024 15:09	RC/JU	Ok,M
8	P4663-02	BE101450.D	1 Nov 2024 15:45	RC/JU	Ok,M
9	P4659-01	BE101451.D	1 Nov 2024 16:21	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM				
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM				
SubDirectory	BE110424	HP Acquire Method	BNA_E			HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101452.D	4 Nov 2024 12:13	RC/JU	Ok
2	SSTDCCC040	BE101453.D	4 Nov 2024 12:49	RC/JU	Ok,M
3	PB164593BL	BE101454.D	4 Nov 2024 13:25	RC/JU	Ok
4	PB164593BS	BE101455.D	4 Nov 2024 14:04	RC/JU	Ok,M
5	P4667-13	BE101456.D	4 Nov 2024 15:42	RC/JU	Ok
6	P4680-05	BE101457.D	4 Nov 2024 16:18	RC/JU	Ok
7	P4680-01	BE101458.D	4 Nov 2024 16:51	RC/JU	ReRun
8	P4675-04	BE101459.D	4 Nov 2024 17:27	RC/JU	Ok
9	P4675-04MS	BE101460.D	4 Nov 2024 18:02	RC/JU	Ok,M
10	P4675-04MSD	BE101461.D	4 Nov 2024 18:38	RC/JU	Ok,M
11	P4675-03	BE101462.D	4 Nov 2024 19:14	RC/JU	Ok
12	P4675-01	BE101463.D	4 Nov 2024 19:50	RC/JU	Ok
13	P4675-02	BE101464.D	4 Nov 2024 20:26	RC/JU	ReRun
14	P4675-05	BE101465.D	4 Nov 2024 21:01	RC/JU	ReRun
15	P4675-06	BE101466.D	4 Nov 2024 21:37	RC/JU	ReRun
16	P4667-05	BE101467.D	4 Nov 2024 22:13	RC/JU	ReRun
17	P4667-01	BE101468.D	4 Nov 2024 22:49	RC/JU	Ok
18	P4667-09	BE101469.D	4 Nov 2024 23:25	RC/JU	Ok
19	P4679-01	BE101470.D	5 Nov 2024 00:01	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM				
SubDirectory	BF110124	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140199.D	01 Nov 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140200.D	01 Nov 2024 09:22	RC/JU	Ok,M
3	PB164558BL	BF140201.D	01 Nov 2024 09:49	RC/JU	Ok
4	PB164558BS	BF140202.D	01 Nov 2024 10:15	RC/JU	Ok,M
5	PB164531BS	BF140203.D	01 Nov 2024 10:41	RC/JU	Ok,M
6	P4643-01	BF140204.D	01 Nov 2024 11:14	RC/JU	Ok
7	P4643-05	BF140205.D	01 Nov 2024 11:40	RC/JU	Ok
8	P4578-01RE	BF140206.D	01 Nov 2024 12:07	RC/JU	Confirms
9	P4578-02RE	BF140207.D	01 Nov 2024 12:33	RC/JU	Confirms
10	P4663-08	BF140208.D	01 Nov 2024 14:00	RC/JU	Ok
11	P4663-08MS	BF140209.D	01 Nov 2024 14:27	RC/JU	Ok,M
12	P4663-08MSD	BF140210.D	01 Nov 2024 14:53	RC/JU	Ok,M
13	P4659-01	BF140211.D	01 Nov 2024 15:20	RC/JU	ReRun
14	P4663-04	BF140212.D	01 Nov 2024 15:47	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101388.D	28 Oct 2024 10:51		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BE101390.D	28 Oct 2024 12:23	Compound #32,54,56,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BE101391.D	28 Oct 2024 12:59		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BE101392.D	28 Oct 2024 13:35	Compound #32,54 Kept on LR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	The Calibration is Good For 8270 DOD Except com#77 and Not good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BE101394.D	28 Oct 2024 14:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BE101395.D	28 Oct 2024 15:25	Compound #69 removed from 60ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BE101396.D	28 Oct 2024 16:01	Compound #9,69,79 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBE102824	BE101397.D	28 Oct 2024 16:37	ICV Fail for Com#77 for Both DOD and NON-DOD	RC/JU	Ok,M
11	PB164444BL	PB164444BL	BE101398.D	28 Oct 2024 17:16		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110124

Review By	yogesh	Review On	11/4/2024 1:47:04 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:32 AM		
SubDirectory	BE110124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101443.D	1 Nov 2024 9:05		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101444.D	1 Nov 2024 9:41		RC/JU	Ok
3	PB164558BL	PB164558BL	BE101445.D	1 Nov 2024 10:17		RC/JU	Ok
4	P4616-01MS	BP-F10MS	BE101446.D	1 Nov 2024 10:58		RC/JU	Ok,M
5	P4616-01MSD	BP-F10MSD	BE101447.D	1 Nov 2024 14:00		RC/JU	Ok,M
6	P4663-06	RES-BUILDING-PAD-N	BE101448.D	1 Nov 2024 14:33		RC/JU	Ok
7	P4645-01	Z-02-WC	BE101449.D	1 Nov 2024 15:09		RC/JU	Ok,M
8	P4663-02	TENNANT-PAD-2-3-ST	BE101450.D	1 Nov 2024 15:45		RC/JU	Ok,M
9	P4659-01	MH-2	BE101451.D	1 Nov 2024 16:21		RC/JU	Ok,M

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM		
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM		
SubDirectory	BE110424	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101452.D	4 Nov 2024 12:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101453.D	4 Nov 2024 12:49		RC/JU	Ok,M
3	PB164593BL	PB164593BL	BE101454.D	4 Nov 2024 13:25		RC/JU	Ok
4	PB164593BS	PB164593BS	BE101455.D	4 Nov 2024 14:04		RC/JU	Ok,M
5	P4667-13	BP-F-7	BE101456.D	4 Nov 2024 15:42		RC/JU	Ok
6	P4680-05	BP-F25	BE101457.D	4 Nov 2024 16:18		RC/JU	Ok
7	P4680-01	BP-F26	BE101458.D	4 Nov 2024 16:51	Internal Standard Fail	RC/JU	ReRun
8	P4675-04	COMP-4	BE101459.D	4 Nov 2024 17:27	Internal Standard Fail	RC/JU	Ok
9	P4675-04MS	COMP-4MS	BE101460.D	4 Nov 2024 18:02	Internal Standard Fail	RC/JU	Ok,M
10	P4675-04MSD	COMP-4MSD	BE101461.D	4 Nov 2024 18:38	Internal Standard Fail	RC/JU	Ok,M
11	P4675-03	COMP-3	BE101462.D	4 Nov 2024 19:14		RC/JU	Ok
12	P4675-01	COMP-1	BE101463.D	4 Nov 2024 19:50		RC/JU	Ok
13	P4675-02	COMP-2	BE101464.D	4 Nov 2024 20:26	Internal Standard Fail	RC/JU	ReRun
14	P4675-05	COMP-5	BE101465.D	4 Nov 2024 21:01	Internal Standard Fail	RC/JU	ReRun
15	P4675-06	COMP-6	BE101466.D	4 Nov 2024 21:37	Internal Standard Fail	RC/JU	ReRun
16	P4667-05	BP-F-5	BE101467.D	4 Nov 2024 22:13	Internal Standard Fail	RC/JU	ReRun
17	P4667-01	BP-F-6	BE101468.D	4 Nov 2024 22:49		RC/JU	Ok
18	P4667-09	BP-F-10	BE101469.D	4 Nov 2024 23:25		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM		
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM		
SubDirectory	BE110424	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4679-01	MH-1	BE101470.D	5 Nov 2024 00:01		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM		
SubDirectory	BF110124	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140199.D	01 Nov 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140200.D	01 Nov 2024 09:22		RC/JU	Ok,M
3	PB164558BL	PB164558BL	BF140201.D	01 Nov 2024 09:49		RC/JU	Ok
4	PB164558BS	PB164558BS	BF140202.D	01 Nov 2024 10:15		RC/JU	Ok,M
5	PB164531BS	PB164531BS	BF140203.D	01 Nov 2024 10:41		RC/JU	Ok,M
6	P4643-01	BP-F9-ADDITIONAL	BF140204.D	01 Nov 2024 11:14		RC/JU	Ok
7	P4643-05	BP-F8	BF140205.D	01 Nov 2024 11:40		RC/JU	Ok
8	P4578-01RE	WB-305-SWRE	BF140206.D	01 Nov 2024 12:07	Surrogate Fail	RC/JU	Confirms
9	P4578-02RE	WB-305-SW-1RE	BF140207.D	01 Nov 2024 12:33	Surrogate Fail	RC/JU	Confirms
10	P4663-08	RES-BUILDING-PAD-N	BF140208.D	01 Nov 2024 14:00		RC/JU	Ok
11	P4663-08MS	RES-BUILDING-PAD-N	BF140209.D	01 Nov 2024 14:27		RC/JU	Ok,M
12	P4663-08MSD	RES-BUILDING-PAD-N	BF140210.D	01 Nov 2024 14:53		RC/JU	Ok,M
13	P4659-01	MH-2	BF140211.D	01 Nov 2024 15:20	Internal standard fail	RC/JU	ReRun
14	P4663-04	RES-BUILDING-PAD-N	BF140212.D	01 Nov 2024 15:47		RC/JU	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4647-01	01A-01B-01C	1	1.00	1.00	2.00	2.00	100.0	caluk
P4658-01	B-131-1-SB02	2	1.16	8.56	9.72	5.57	51.5	
P4658-02	B-131-2-SB02	3	1.15	8.63	9.78	5.91	55.2	
P4658-03	B-131-3-SB02	4	1.14	8.37	9.51	5.83	56.0	
P4659-02	MH-2-EPH	5	1.14	8.59	9.73	8.7	88.0	
P4659-03	MH-2-VOC	6	1.16	8.70	9.86	8.83	88.2	
P4660-02	WC-TA2-01-C	7	1.13	8.76	9.89	8.92	88.9	
P4660-06	WC-WOOD-01-C	8	1.00	1.00	2.00	2.00	100.0	wood chips
P4660-10	WC-CONCRETE-01-C	9	1.14	8.55	9.69	9.03	92.3	
P4660-12	WC-CONCRETE-01-C	10	1.14	8.54	9.68	9.06	92.7	
P4661-01	102824-A	11	1.00	1.00	2.00	2.00	100.0	wipe sample
P4661-02	102824-B	12	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-01	102524-DRIP-A	13	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-02	102524-B	14	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-03	102524-C	15	1.00	1.00	2.00	2.00	100.0	wipe sample
P4663-01	TENNANT-PAD-2-3-STOCKPILE	16	1.14	8.75	9.89	9.1	91.0	
P4663-02	TENNANT-PAD-2-3-STOCKPILE	17	1.16	8.75	9.91	9.11	90.9	
P4663-03	RES-BUILDING-PAD-NO-11	18	1.16	8.74	9.9	9.19	91.9	
P4663-04	RES-BUILDING-PAD-NO-11	19	1.16	8.67	9.83	9.11	91.7	
P4663-05	RES-BUILDING-PAD-NO-3	20	1.15	8.61	9.76	8.94	90.5	
P4663-06	RES-BUILDING-PAD-NO-3	21	1.16	8.64	9.8	9.04	91.2	
P4663-07	RES-BUILDING-PAD-NO-2	22	1.16	8.46	9.62	8.41	85.7	
P4663-08	RES-BUILDING-PAD-NO-2	23	1.17	8.78	9.95	9.19	91.3	
P4667-01	BP-F-6	24	1.16	8.42	9.58	8.66	89.1	
P4667-02	BP-F-6-EPH	25	1.18	8.51	9.69	8.7	88.4	
P4667-03	BP-F-6-VOC	26	1.19	8.65	9.84	8.88	88.9	
P4667-05	BP-F-5	27	1.16	8.51	9.67	8.76	89.3	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4667-06	BP-F-5-EPH	28	1.16	8.52	9.68	8.76	89.2	
P4667-07	BP-F-5-VOC	29	1.17	8.64	9.81	8.79	88.2	
P4667-09	BP-F-10	30	1.17	8.78	9.95	8.98	89.0	
P4667-10	BP-F-10-EPH	31	1.17	8.54	9.71	8.84	89.8	
P4667-11	BP-F-10-VOC	32	1.16	8.81	9.97	9.06	89.7	
P4667-13	BP-F-7	33	1.16	8.71	9.87	8.91	89.0	
P4667-14	BP-F-7-EPH	34	1.17	8.44	9.61	8.57	87.7	
P4667-15	BP-F-7-VOC	35	1.18	8.42	9.6	8.72	89.5	
P4672-01	TAPLPR-SED06-103024-00-T2	36	1.19	8.65	9.84	7.71	75.4	
P4672-02	TAPLPR-SED07-103024-00-T2	37	1.19	8.47	9.66	8.48	86.1	
P4672-03	TAPLPR-SED03-103024-00-T2	38	1.19	8.68	9.87	8.31	82.0	
P4672-04	TAPLPR-SED04-103024-00-T2	39	1.19	8.77	9.96	8.77	86.4	
P4672-05	TAPLPR-SED05-103024-00-T2	40	1.18	8.62	9.8	8.41	83.9	
P4675-01	COMP-1	41	1.18	8.56	9.74	7.85	77.9	
P4675-02	COMP-2	42	1.19	8.48	9.67	8.46	85.7	
P4675-03	COMP-3	43	1.19	8.78	9.97	8.99	88.8	
P4675-04	COMP-4	44	1.18	8.71	9.89	8.4	82.9	
P4675-05	COMP-5	45	1.17	8.54	9.71	8.18	82.1	
P4675-06	COMP-6	46	1.17	8.70	9.87	8.24	81.3	
P4677-01	2410-6346	47	1.00	1.00	2.00	2.00	100.0	PAINT CHIPS
P4679-01	MH-1	48	1.18	8.80	9.98	8.98	88.6	
P4679-02	MH-1-EPH	49	1.19	8.58	9.77	8.65	86.9	
P4679-03	MH-1-VOC	50	1.19	8.62	9.81	8.72	87.4	
P4680-01	BP-F26	51	1.18	8.80	9.98	9.08	89.8	
P4680-02	BP-F26-EPH	52	1.18	8.44	9.62	8.71	89.2	
P4680-03	BP-F26-VOC	53	1.19	8.50	9.69	8.75	88.9	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133250

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4680-05	BP-F25	54	1.18	8.69	9.87	8.9	88.8	
P4680-06	BP-F25-EPH	55	1.19	8.79	9.98	8.91	87.8	
P4680-07	BP-F25-VOC	56	1.18	8.60	9.78	8.86	89.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

LB 183250

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4647-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	K61	10/31/2024	Chemtech -SO
P4658-01	B-131-1-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-02	B-131-2-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-03	B-131-3-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4659-02	MH-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4659-03	MH-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4660-02	WC-TA2-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/30/2024	Chemtech -SO
P4660-06	WC-WOOD-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-10	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-12	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4661-01	102824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4661-02	102824-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4662-01	102524-DRIP-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-02	102524-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-03	102524-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4663-01	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-03	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-05	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/24 15:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 11/01/24 17:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-07	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4667-01	BP-F-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-02	BP-F-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-03	BP-F-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-05	BP-F-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-06	BP-F-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-07	BP-F-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-09	BP-F-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-10	BP-F-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-11	BP-F-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-13	BP-F-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-14	BP-F-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-15	BP-F-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4675-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/2024 ~~14:00~~ 15:30

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11/01/2024 ~~15:30~~ 17:20

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 **WorkList ID :** 185025 **Department :** Wet-Chemistry **Date :** 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4675-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-04	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-05	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-06	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4677-01	2410-6346	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-01	MH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-02	MH-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-03	MH-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4680-01	BP-F26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-02	BP-F26-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-03	BP-F26-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-05	BP-F25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-06	BP-F25-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-07	BP-F25-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO

Date/Time 11/01/24 15:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

17:30

Date/Time 11/01/24 ~~15:30~~

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164593

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/01/2024
Matrix :	Solid			**Extraction Start Time :**	09:43
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	11/01/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:55
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. P 4663 All samples Added in batch at 11:00.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/01/24	RP (Ext Lab)	Rel SVOC
14:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164593

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164593BL	SBLK593	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			U6-1
PB164593BS	SLCS593	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			2
P4645-01	Z-02-WC	SVOC-TCL BNA -20	50.03	N/A	ritesh	RUPESH	1	D		3
P4659-01	MH-2	SVOC-TCL BNA -20	50.07	N/A	ritesh	RUPESH	1	D		4
P4663-02	TENNANT-PAD-2-3-STOCKPILE	SVOCMS Group1	30.02	N/A	ritesh	RUPESH	1	D		5
P4663-04	RES-BUILDING-PAD-NO-11	SVOCMS Group1	30.06	N/A	ritesh	RUPESH	1	D		6
P4663-06	RES-BUILDING-PAD-NO-3	SVOCMS Group1	30.08	N/A	ritesh	RUPESH	1	D		U7-1
P4663-08	RES-BUILDING-PAD-NO-2	SVOCMS Group1	30.03	N/A	ritesh	RUPESH	1	D		2
P4663-08MS	RES-BUILDING-PAD-NO-2 MS	SVOCMS Group1	30.05	N/A	ritesh	RUPESH	1	D		3
P4663-08MSD	RES-BUILDING-PAD-NO-2 MSD	SVOCMS Group1	30.07	N/A	ritesh	RUPESH	1	D		4

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

11/01/24

1645 93
9:43

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4659 **WorkList ID :** 185006 **Department :** Extraction **Date :** 11-01-2024 08:36:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4645-01	Z-02-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/31/2024	8270E
P4659-01	MH-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/31/2024	8270E

Date/Time 11/01/24 9:40
Raw Sample Received by: RJ (Eol Labs)
Raw Sample Relinquished by: JD CSM)

Date/Time 11/01/24 9:55
Raw Sample Received by: JD CSM)
Raw Sample Relinquished by: RJ (Eol Labs)

1643913
11:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663 **WorkList ID :** 185017 **Department :** Extraction **Date :** 11-01-2024 11:00:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-04	RES-BUILDING-PAD-NO-11	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-04	RES-BUILDING-PAD-NO-11	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-06	RES-BUILDING-PAD-NO-3	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-06	RES-BUILDING-PAD-NO-3	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-08	RES-BUILDING-PAD-NO-2	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-08	RES-BUILDING-PAD-NO-2	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E

Date/Time 11/01/24 11:00
Raw Sample Received by: RJ (Ecl Tech)
Raw Sample Relinquished by: RM

Date/Time 11/01/24 11:15
Raw Sample Received by: RM
Raw Sample Relinquished by: RJ (Ecl Tech)

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. QUOTE NO. P4663
COC Number 2042152

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Union Paving & Construction Co
ADDRESS: 891 RT 10 E
CITY Whippany STATE: NJ ZIP:
ATTENTION: Gregory B
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER: Gregory B
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

ANALYSIS

1 Clean fill VOCs 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E)	PRESERVATIVES 2 (E)	3	4	5	6	7	8	9	COMMENTS
1.	Tennant Pad 2/3 stockpile	SOL	X		103124	1245	4	X									
2.	Tennant Pad 2/3 stock pile			X		1250	4		X								0.0 ppm
3.	Res Building Pad No. 11		X			1300	4	X									
4.	Res Building Pad No. 11			X		1304	4		X								0.0 ppm
5.	Res Building Pad No. 3		X			1320	4	X									
6.	Res Building Pad No. 3			X		1326	4		X								0.0 ppm
7.	Res Building Pad No. 2		X			1335	4	X									
8.	Res Building Pad No. 2			X		1339	4		X								0.0 ppm
9.																	
10.																	

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

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	10-31-24 1355	1.
2.		2.
3.	10-31-24 1645	3.

Conditions of bottles or coolers at receipt: ✓ COMPLIANT ❑ NON COMPLIANT ✓ COOLER TEMP 2.3 °C
Comments: PID Calibration 10-31-24

Page 1 of 1

CLIENT: ❑ Hand Delivered ❑ Other _____
CHEMTECH: ❑ Picked Up ✓ Field Sampling

Shipment Complete ✓ YES ❑ NO

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

CHEMTECH
Environmental Laboratory
www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Union Paving & Construction Co
Service Order #:
Work Order #:
Labor WBS #:
Facility/Site:
Site Address: 891 RT 10 E Whippany, NJ

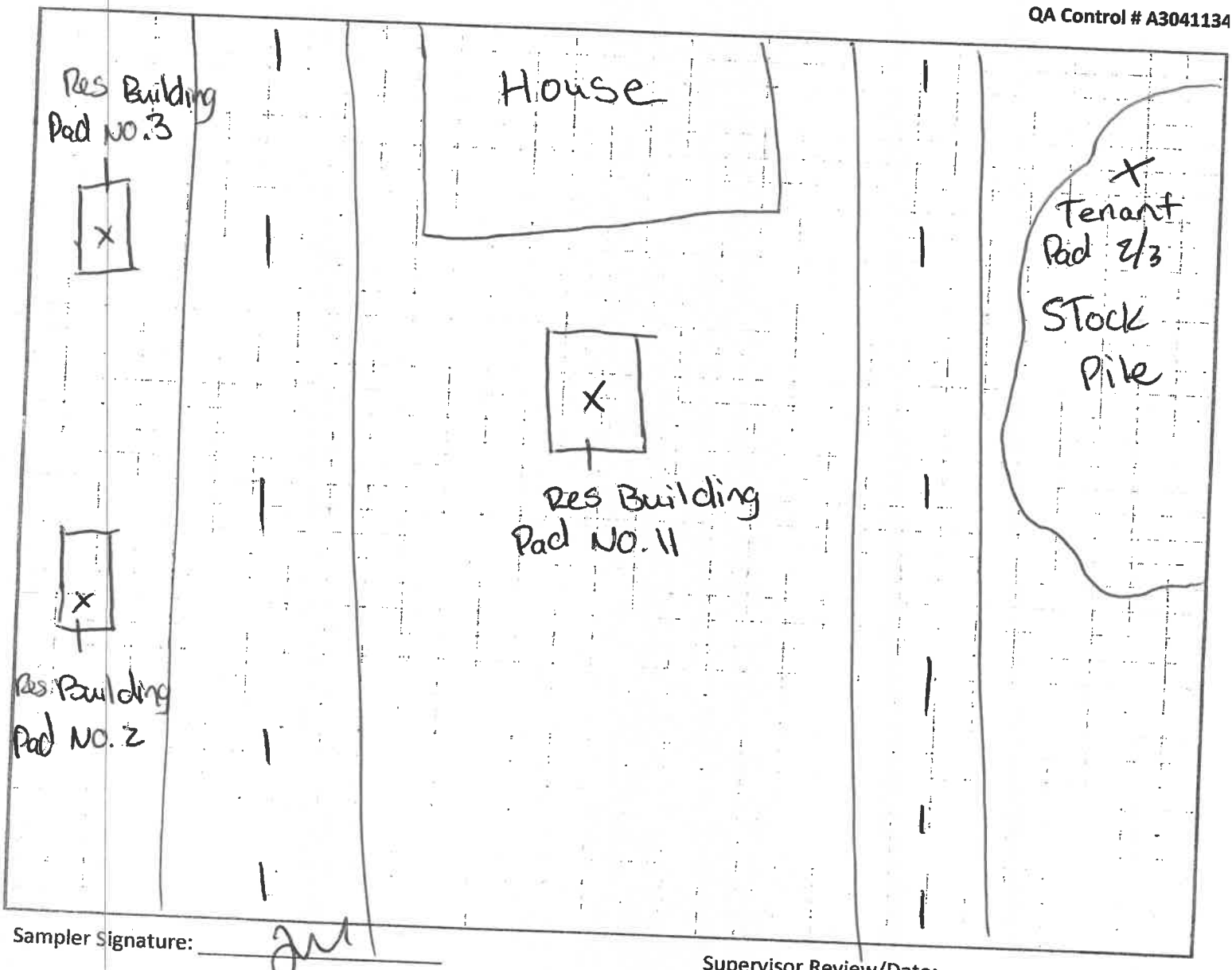
Chemtech Order ID:
Sampler Name: Jeremy M
Client Project Coordinator & Phone: Gregory B
Page #: 1 of 1
Date: 10-31-24
Arrive Time: 1230
Depart Time: 1355

Waste Stream (circle one): drum / roll-off / soil pile / in-situ / linear construction / frac-tank
Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: 1 foot - 2 feet
Dimensions/CY: N/A
Temp (range): 2.3 °C
PID Readings (range): PPM
Odor: Y (N)
Color: Y (N)
Sample Description: Brown Rocky Soil.
Field Observations: 4 Spots, (1) Excavation Stockpile (3) Test pits.

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: JM
Client Signature:
Supervisor Review/Date:
Date/Time Arrived at Lab:

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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4663 UNIO02
Client Name : Union Paving & Constructi
Client Contact : Gregory Butler
Invoice Name : Union Paving & Constructi
Invoice Contact : Gregory Butler

Order Date : 10/31/2024 3:05:00 PM
Project Name : Rt. 10 Whippany
Receive DateTime : 10/31/2024 ~~12:00:00 AM~~ 16:45
Purchase Order :

Project Mgr :
Report Type : Level 3
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4663-01	TENNANT-PAD-2-3-STOCKPILE	Solid	10/31/2024	12:45					
					VOCMS Group1		8260D		3 Bus. Days
P4663-03	RES-BUILDING-PAD-NO-11	Solid	10/31/2024	13:00					
					VOCMS Group1		8260D		3 Bus. Days
P4663-05	RES-BUILDING-PAD-NO-3	Solid	10/31/2024	13:20					
					VOCMS Group1		8260D		3 Bus. Days
P4663-07	RES-BUILDING-PAD-NO-2	Solid	10/31/2024	13:35					
					VOCMS Group1		8260D		3 Bus. Days

Relinguished By :
Date / Time : 10-31-24 1710

Left inside SM fridge

Received By :
Date / Time : 11/01/24 12:00

Storage Area : VOA Refridgerator Room