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

LAB CHRONICLE

OrderID:	Q1870	**OrderDate:**	4/24/2025 11:31:00 AM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Waste Water PT
Contact:	Mohammad Ahmed	**Location:**	QA Office

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1870-01	**38072-010925**	**Water**			**04/21/25**			**04/23/25**
			SVOCMS Group5	8270-Modified		04/24/25	04/29/25	
Q1870-01DL	**38072-010925DL**	**Water**			**04/21/25**			**04/23/25**
			SVOCMS Group5	8270-Modified		04/24/25	04/29/25	
Q1870-01DL2	**38072-010925DL2**	**Water**			**04/21/25**			**04/23/25**
			SVOCMS Group5	8270-Modified		04/24/25	04/29/25	
Q1870-03	**38073-100124**	**Water**			**04/22/25**			**04/24/25**
			SVOCMS Group2	8270E		04/24/25	04/29/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : 38072-010925								
Q1870-01	38072-010925	WATER	Acenaphthylene	240.000	E	0.04	0.1	ug/L
			Total Svoc :	**240.00**				
			Total Concentration:	**240.00**				
Client ID : 38072-010925DL								
Q1870-01DL	38072-010925DL	WATER	Acenaphthylene	240.000	ED	0.19	0.5	ug/L
			Total Svoc :	**240.00**				
			Total Concentration:	**240.00**				
Client ID : 38072-010925DL2								
Q1870-01DL2	38072-010925DL2	WATER	Acenaphthylene	230.000	D	1.9	5	ug/L
			Total Svoc :	**230.00**				
			Total Concentration:	**230.00**				

SAMPLE DATA

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925	SDG No.:	Q1870
Lab Sample ID:	Q1870-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036936.D	1	04/24/25 12:05	04/29/25 13:05	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	240	E	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.42		20 - 139	105%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150	115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		27 - 154	104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		25 - 149	103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1930	7.633			
1146-65-2	Naphthalene-d8	5450	10.415			
15067-26-2	Acenaphthene-d10	3190	14.277			
1517-22-2	Phenanthrene-d10	6290	17.021			
1719-03-5	Chrysene-d12	6090	21.225			
1520-96-3	Perylene-d12	4540	23.427			

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

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925DL	SDG No.:	Q1870
Lab Sample ID:	Q1870-01DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036937.D	5	04/24/25 12:05	04/29/25 13:41	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	240	ED	0.19	0.50	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.42		20 - 139	104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150	110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		27 - 154	105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		25 - 149	101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		54 - 175	88%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2660	7.633			
1146-65-2	Naphthalene-d8	7270	10.404			
15067-26-2	Acenaphthene-d10	4170	14.277			
1517-22-2	Phenanthrene-d10	8000	17.021			
1719-03-5	Chrysene-d12	7790	21.216			
1520-96-3	Perylene-d12	5960	23.427			

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925DL2	SDG No.:	Q1870
Lab Sample ID:	Q1870-01DL2	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036938.D	50	04/24/25 12:05	04/29/25 14:17	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	230	D	1.90	5.00	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0	*	20 - 139	0%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0	*	30 - 150	0%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0	*	27 - 154	0%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0	*	25 - 149	0%	SPK: 0.4
1718-51-0	Terphenyl-d14	0	*	54 - 175	0%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2430	7.633			
1146-65-2	Naphthalene-d8	6300	10.415			
15067-26-2	Acenaphthene-d10	3590	14.277			
1517-22-2	Phenanthrene-d10	7140	17.021			
1719-03-5	Chrysene-d12	6700	21.215			
1520-96-3	Perylene-d12	5500	23.43			

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167728BL	PB167728BL	2-Methylnaphthalene-d10	0.4	0.32	81		20	139
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.33	82		27	154
		2-Fluorobiphenyl	0.4	0.35	88		25	149
		Terphenyl-d14	0.4	0.37	91		54	175
PB167728BS	PB167728BS	2-Methylnaphthalene-d10	0.4	0.37	93		20	139
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.35	87		27	154
		2-Fluorobiphenyl	0.4	0.37	92		25	149
		Terphenyl-d14	0.4	0.36	89		54	175
Q1870-01	38072-010925	2-Methylnaphthalene-d10	0.4	0.42	105		20	139
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.42	104		27	154
		2-Fluorobiphenyl	0.4	0.41	103		25	149
		Terphenyl-d14	0.4	0.37	93		54	175
Q1870-01DL	38072-010925DL	2-Methylnaphthalene-d10	0.4	0.42	104		20	139
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.42	105		27	154
		2-Fluorobiphenyl	0.4	0.41	101		25	149
		Terphenyl-d14	0.4	0.35	88		54	175
Q1870-01DL2	38072-010925DL2	2-Methylnaphthalene-d10	0.4	0	0	*	20	139
		Fluoranthene-d10	0.4	0	0	*	30	150
		Nitrobenzene-d5	0.4	0	0	*	27	154
		2-Fluorobiphenyl	0.4	0	0	*	25	149
		Terphenyl-d14	0.4	0	0	*	54	175

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified **DataFile:** BN036939.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167728BS	Acenaphthylene	0.4	0.37	ug/L	93				60	119	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167728BL

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036934.D Lab Sample ID: PB167728BL

Instrument ID: BNA_N Date Extracted: 04/24/2025

Matrix: (soil/water) Water Date Analyzed: 04/29/2025

Level: (low/med) LOW Time Analyzed: 09:53

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167728BS	PB167728BS	BN036939.D	04/29/2025
38072-010925	Q1870-01	BN036936.D	04/29/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036922.D DFTPP Injection Date: 04/28/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.4
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	58.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	54.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.3 (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
SSTDICC0.1	SSTDICC0.1	BN036923.D	04/28/2025	11:35
SSTDICC0.2	SSTDICC0.2	BN036924.D	04/28/2025	12:11
SSTDICCC0.4	SSTDICCC0.4	BN036925.D	04/28/2025	12:47
SSTDICC0.8	SSTDICC0.8	BN036926.D	04/28/2025	13:24
SSTDICC1.6	SSTDICC1.6	BN036927.D	04/28/2025	14:00
SSTDICC3.2	SSTDICC3.2	BN036928.D	04/28/2025	14:36
SSTDICC5.0	SSTDICC5.0	BN036929.D	04/28/2025	15:12

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036932.D DFTPP Injection Date: 04/29/2025

Instrument ID: BNA_N DFTPP Injection Time: 08:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	70.2
68	Less than 2.0% of mass 69	0.8 (1.3) 1
69	Mass 69 relative abundance	59.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	54.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	23.1
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	7.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.9 (21.2) 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
SSTDCCC0.4	SSTDCCC0.4	BN036933.D	04/29/2025	09:17
PB167728BL	PB167728BL	BN036934.D	04/29/2025	09:53
38072-010925	Q1870-01	BN036936.D	04/29/2025	13:05
38072-010925DL	Q1870-01DL	BN036937.D	04/29/2025	13:41
38072-010925DL2	Q1870-01DL2	BN036938.D	04/29/2025	14:17
PB167728BS	PB167728BS	BN036939.D	04/29/2025	14:54

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	2604	7.633	6625	10.40	3573	14.28
	UPPER LIMIT	5208	8.133	13250	10.904	7146	14.777
	LOWER LIMIT	1302	7.133	3312.5	9.904	1786.5	13.777
	EPA SAMPLE NO.						
01	PB167728BL	2379	7.63	5573	10.42	2873	14.28
02	38072-010925	1925	7.63	5445	10.42	3190	14.28
03	38072-010925DL	2660	7.63	7273	10.40	4170	14.28
04	PB167728BS	2630	7.63	6464	10.42	3313	14.28
05	38072-010925DL2	2432	7.63	6295	10.42	3589	14.28

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	6894	17.021	5083	21.216	4284	23.427
	UPPER LIMIT	13788	17.521	10166	21.716	8568	23.927
	LOWER LIMIT	3447	16.521	2541.5	20.716	2142	22.927
	EPA SAMPLE NO.						
01	PB167728BL	5718	17.02	4280	21.22	3789	23.42
02	38072-010925	6294	17.02	6093	21.23	4542	23.43
03	38072-010925DL	7996	17.02	7787	21.22	5957	23.43
04	PB167728BS	6630	17.02	4615	21.22	3648	23.43
05	38072-010925DL2	7137	17.02	6695	21.22	5501	23.43

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.

QC SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167728BL	SDG No.:	Q1870
Lab Sample ID:	PB167728BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036934.D	1	04/24/25 12:05	04/29/25 09:53	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.040	U	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		20 - 139	81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150	90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		27 - 154	82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		25 - 149	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2380	7.633			
1146-65-2	Naphthalene-d8	5570	10.415			
15067-26-2	Acenaphthene-d10	2870	14.277			
1517-22-2	Phenanthrene-d10	5720	17.021			
1719-03-5	Chrysene-d12	4280	21.215			
1520-96-3	Perylene-d12	3790	23.424			

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

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167728BS	SDG No.:	Q1870
Lab Sample ID:	PB167728BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036939.D	1	04/24/25 12:05	04/29/25 14:54	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.37		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		20 - 139	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150	82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		27 - 154	87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		25 - 149	92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		54 - 175	89%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2630	7.633			
1146-65-2	Naphthalene-d8	6460	10.415			
15067-26-2	Acenaphthene-d10	3310	14.277			
1517-22-2	Phenanthrene-d10	6630	17.021			
1719-03-5	Chrysene-d12	4620	21.215			
1520-96-3	Perylene-d12	3650	23.427			

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

CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036923.D 0.2 =BN036924.D 0.4 =BN036925.D 0.8 =BN036926.D 1.6 =BN036927.D 3.2 =BN036928.D 5.0 =BN036929.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.452	0.489	0.551	0.506	0.537	0.489	0.465	0.498	7.23
3)		n-Nitrosodimet...	0.903	0.998	1.010	0.957	1.034	0.952	0.918	0.967	5.01
4)	S	2-Fluorophenol	1.050	1.056	1.118	0.946	1.040	0.982	0.970	1.023	5.86
5)	S	Phenol-d6	1.270	1.237	1.337	1.151	1.294	1.255	1.272	1.259	4.57
6)		bis(2-Chloroet...	1.174	1.123	1.170	1.139	1.240	1.162	1.162	1.167	3.17
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.400	0.401	0.411	0.404	0.446	0.432	0.436	0.418	4.52
9)		Naphthalene	1.155	1.147	1.155	1.132	1.225	1.170	1.165	1.164	2.56
10)		Hexachlorobuta...	0.260	0.250	0.253	0.249	0.262	0.248	0.240	0.252	2.99
11)	SURR	2-Methylnaphth...	0.540	0.532	0.541	0.543	0.596	0.575	0.589	0.559	4.75
12)		2-Methylnaphth...	0.716	0.713	0.719	0.735	0.804	0.782	0.798	0.753	5.41
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.156	0.173	0.177	0.175	0.187	0.184	0.196	0.178	7.18
15)	S	2-Fluorobiphenyl	1.877	1.975	2.055	1.690	2.023	1.986	1.928	1.933	6.32
16)		Acenaphthylene	1.876	1.850	1.907	1.884	2.067	2.035	2.066	1.955	4.93
17)		Acenaphthene	1.264	1.270	1.275	1.248	1.333	1.295	1.305	1.284	2.22
18)		Fluorene	1.604	1.612	1.624	1.658	1.788	1.720	1.752	1.680	4.39
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.083	0.090	0.096	0.113	0.120	0.134	0.106	18.55
21)		4-Bromophenyl-...	0.260	0.263	0.262	0.260	0.282	0.272	0.270	0.267	3.11
22)		Hexachlorobenzene	0.301	0.289	0.300	0.280	0.303	0.293	0.282	0.293	3.18
23)		Atrazine	0.193	0.198	0.199	0.217	0.227	0.226	0.248	0.215	9.20
24)		Pentachlorophenol	0.160	0.136	0.144	0.145	0.163	0.168	0.181	0.157	10.06
25)		Phenanthrene	1.309	1.274	1.299	1.280	1.387	1.346	1.347	1.320	3.13
26)		Anthracene	1.131	1.108	1.147	1.138	1.275	1.261	1.299	1.194	6.74
27)	SURR	Fluoranthene-d10	0.993	1.004	0.991	1.016	1.087	1.053	1.115	1.037	4.74
28)		Fluoranthene	1.387	1.380	1.399	1.471	1.578	1.530	1.613	1.480	6.46
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.919	1.942	1.958	1.802	2.073	1.969	1.823	1.927	4.77
31)	S	Terphenyl-d14	0.974	0.942	0.946	0.893	1.005	0.952	0.897	0.944	4.22
32)		Benzo(a)anthra...	1.402	1.407	1.429	1.422	1.583	1.509	1.561	1.473	5.19
33)		Chrysene	1.517	1.576	1.637	1.582	1.700	1.572	1.536	1.589	3.91
34)		Bis(2-ethylhex...	0.949	0.847	0.834	0.784	0.804	0.782	0.866	0.838	6.96
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN042825.M

36)		Indeno(1,2,3-c...	1.595	1.571	1.712	1.503	1.720	1.724	1.609	1.634	5.29
37)		Benzo(b)fluora...	1.580	1.552	1.634	1.628	1.796	1.758	1.825	1.682	6.50
38)		Benzo(k)fluora...	1.601	1.569	1.648	1.641	1.812	1.784	1.785	1.691	5.89
39)	C	Benzo(a)pyrene	1.315	1.301	1.361	1.315	1.463	1.447	1.477	1.383	5.57
40)		Dibenzo(a,h)an...	1.229	1.241	1.349	1.176	1.357	1.379	1.268	1.286	5.96
41)		Benzo(g,h,i)pe...	1.459	1.405	1.515	1.305	1.495	1.470	1.339	1.427	5.61

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG No.: Q1870

Instrument ID: BNA_N Calibration Date/Time: 04/29/2025 09:17

Lab File ID: BN036933.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:35 15:12

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.559	0.542		-3.0	20.0
Fluoranthene-d10	1.037	0.998		-3.8	20.0
2-Fluorophenol	1.023	1.058		3.4	20.0
Phenol-d6	1.259	1.302		3.4	20.0
Nitrobenzene-d5	0.418	0.407		-2.6	20.0
2-Fluorobiphenyl	1.933	1.953		1.0	20.0
Acenaphthylene	1.955	1.903		-2.7	20.0
2,4,6-Tribromophenol	0.178	0.172		-3.4	20.0
Terphenyl-d14	0.944	0.951		0.7	20.0

All other compounds must meet a minimum RRF of 0.010.