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

LAB CHRONICLE

OrderID:	Q1486	**OrderDate:**	3/4/2025 3:32:00 PM
Client:	JPCL Engineering	**Project:**	NYSDOT Two Bronx River Parkway Bridges
Contact:	Paul Rotondi	**Location:**	I11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1486-01	**DN-B-40**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1486

Client: JPCL Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**DN-B-40**								
Q1486-01	DN-B-40	SOIL	Phenanthrene		210.000		89.7	180	ug/Kg
Q1486-01	DN-B-40	SOIL	Fluoranthene		290.000		87.3	180	ug/Kg
Q1486-01	DN-B-40	SOIL	Pyrene		190.000		88.6	180	ug/Kg
Q1486-01	DN-B-40	SOIL	Benzo(a)anthracene		140.000	J	86.2	180	ug/Kg
Q1486-01	DN-B-40	SOIL	Chrysene		120.000	J	84.9	180	ug/Kg
Q1486-01	DN-B-40	SOIL	Benzo(b)fluoranthene		140.000	J	86.6	180	ug/Kg
Q1486-01	DN-B-40	SOIL	Benzo(a)pyrene		130.000	J	99.3	180	ug/Kg
			Total Svoc :		**1,220.00**				
Q1486-01	DN-B-40	SOIL	1-Tricosene	*	160.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	3-Ethyl-2,6,10-trimethylundecane	*	120.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	9-Octadecenamide, (Z)-	*	270.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	JB	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Carbonic acid, eicosyl vinyl ester	*	300.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Heneicosane	*	260.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Heptadecane	*	620.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Heptadecane, 2,6,10,15-tetrameth	*	150.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Nonadecane	*	430.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Octadecane	*	350.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Pentadecane, 2,6,10-trimethyl-	*	220.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Pentadecane, 8-hexyl-	*	82.200	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Eicosane	*	210.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Sulfurous acid, butyl tetradecyl e	*	74.400	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Tetradecane	*	89.000	J	0	0	ug/Kg
Q1486-01	DN-B-40	SOIL	Tridecane	*	160.000	J	0	0	ug/Kg
			Total Tics :		**4,985.60**				
			Total Concentration:		**6,205.60**				

SAMPLE DATA

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-40	SDG No.:	Q1486
Lab Sample ID:	Q1486-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141853.D	1	03/05/25 09:40	03/05/25 19:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	350	U	190	350	ug/Kg
108-95-2	Phenol	180	U	88.5	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	180	U	89.4	180	ug/Kg
95-57-8	2-Chlorophenol	180	U	89.2	180	ug/Kg
95-48-7	2-Methylphenol	180	U	86.1	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	180	U	97.1	180	ug/Kg
98-86-2	Acetophenone	180	U	92.8	180	ug/Kg
65794-96-9	3+4-Methylphenols	350	U	85.2	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	85.4	U	43.0	85.4	ug/Kg
67-72-1	Hexachloroethane	180	U	88.6	180	ug/Kg
98-95-3	Nitrobenzene	180	U	97.0	180	ug/Kg
78-59-1	Isophorone	180	U	90.4	180	ug/Kg
88-75-5	2-Nitrophenol	180	U	100	180	ug/Kg
105-67-9	2,4-Dimethylphenol	180	U	99.5	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	180	U	91.6	180	ug/Kg
120-83-2	2,4-Dichlorophenol	180	U	80.6	180	ug/Kg
91-20-3	Naphthalene	180	U	88.2	180	ug/Kg
106-47-8	4-Chloroaniline	180	U	88.2	180	ug/Kg
87-68-3	Hexachlorobutadiene	180	U	89.0	180	ug/Kg
105-60-2	Caprolactam	350	U	92.7	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	180	U	82.8	180	ug/Kg
91-57-6	2-Methylnaphthalene	180	U	88.1	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	350	U	170	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	180	U	76.3	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	180	U	79.0	180	ug/Kg
92-52-4	1,1-Biphenyl	180	U	93.3	180	ug/Kg
91-58-7	2-Chloronaphthalene	180	U	89.0	180	ug/Kg
88-74-4	2-Nitroaniline	180	U	100	180	ug/Kg
131-11-3	Dimethylphthalate	180	U	87.3	180	ug/Kg

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Lab Sample ID:	Q1486-01	Matrix:	SOIL
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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141853.D	1	03/05/25 09:40	03/05/25 19:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	180	U	92.4	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	U	88.9	180	ug/Kg
99-09-2	3-Nitroaniline	180	U	95.3	180	ug/Kg
83-32-9	Acenaphthene	180	U	86.6	180	ug/Kg
51-28-5	2,4-Dinitrophenol	350	U	260	350	ug/Kg
100-02-7	4-Nitrophenol	350	U	120	350	ug/Kg
132-64-9	Dibenzofuran	180	U	90.1	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	180	U	92.1	180	ug/Kg
84-66-2	Diethylphthalate	180	U	85.5	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	180	U	91.4	180	ug/Kg
86-73-7	Fluorene	180	U	91.3	180	ug/Kg
100-01-6	4-Nitroaniline	180	UQ	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	350	U	120	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	180	U	87.2	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	180	U	84.3	180	ug/Kg
118-74-1	Hexachlorobenzene	180	U	90.8	180	ug/Kg
1912-24-9	Atrazine	180	U	97.6	180	ug/Kg
87-86-5	Pentachlorophenol	350	U	82.6	350	ug/Kg
85-01-8	Phenanthrene	210		89.7	180	ug/Kg
120-12-7	Anthracene	180	U	90.1	180	ug/Kg
86-74-8	Carbazole	180	U	85.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	180	U	90.0	180	ug/Kg
206-44-0	Fluoranthene	290		87.3	180	ug/Kg
129-00-0	Pyrene	190		88.6	180	ug/Kg
85-68-7	Butylbenzylphthalate	180	U	100	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	350	U	110	350	ug/Kg
56-55-3	Benzo(a)anthracene	140	J	86.2	180	ug/Kg
218-01-9	Chrysene	120	J	84.9	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	U	97.2	180	ug/Kg
117-84-0	Di-n-octyl phthalate	350	U	120	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	J	86.6	180	ug/Kg

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Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
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Lab Sample ID:	Q1486-01	Matrix:	SOIL
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Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141853.D	1	03/05/25 09:40	03/05/25 19:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	180	U	88.2	180	ug/Kg
50-32-8	Benzo(a)pyrene	130	J	99.3	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180	U	83.4	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	180	U	86.7	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	180	U	85.5	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	92.7	180	ug/Kg
123-91-1	1,4-Dioxane	180	U	120	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	79.8	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	99.0		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	94.1		15 - 107	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.2		18 - 107	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.8		20 - 109	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.8		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	60.0		10 - 105	60%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	181000	6.887			
1146-65-2	Naphthalene-d8	683000	8.163			
15067-26-2	Acenaphthene-d10	314000	9.916			
1517-22-2	Phenanthrene-d10	452000	11.398			
1719-03-5	Chrysene-d12	397000	14.039			
1520-96-3	Perylene-d12	284000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	JB		2.16	ug/Kg
000629-59-4	Tetradecane	89.0	J		9.32	ug/Kg
1000432-25-9	3-Ethyl-2,6,10-trimethylundecane	120	J		9.64	ug/Kg
1000382-54-3	Carbonic acid, eicosyl vinyl ester	300	J		9.85	ug/Kg
1010309-18-1	Sulfurous acid, butyl tetradecyl e	74.4	J		10.2	ug/Kg
000629-92-5	Nonadecane	430	J		10.3	ug/Kg
003892-00-0	Pentadecane, 2,6,10-trimethyl-	220	J		10.6	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-40	SDG No.:	Q1486
Lab Sample ID:	Q1486-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141853.D	1	03/05/25 09:40	03/05/25 19:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000119-61-9	Benzophenone	180	J		10.6	ug/Kg
000629-78-7	Heptadecane	620	J		10.8	ug/Kg
000593-45-3	Octadecane	350	J		11.3	ug/Kg
000629-50-5	Tridecane	160	J		11.3	ug/Kg
000629-94-7	Heneicosane	260	J		11.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		11.9	ug/Kg
000112-95-8	Eicosane	210	J		12.1	ug/Kg
054833-48-6	Heptadecane, 2,6,10,15-tetramethyl	150	J		12.5	ug/Kg
013475-75-7	Pentadecane, 8-hexyl-	82.2	J		13.2	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	270	J		13.5	ug/Kg
018835-32-0	1-Tricosene	160	J		13.9	ug/Kg

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

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

SW-846

SDG No.: Q1486

Client: JPCL Engineering

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166984BL	PB166984BL	2-Fluorophenol	150	126	84		18	112
		Phenol-d6	150	119	79		15	107
		Nitrobenzene-d5	100	105	105		18	107
		2-Fluorobiphenyl	100	91.5	91		20	109
		2,4,6-Tribromophenol	150	167	111		10	116
		Terphenyl-d14	100	82.5	83		10	105
PB166984BS	PB166984BS	2-Fluorophenol	150	122	81		18	112
		Phenol-d6	150	116	77		15	107
		Nitrobenzene-d5	100	105	105		18	107
		2-Fluorobiphenyl	100	91.3	91		20	109
		2,4,6-Tribromophenol	150	166	110		10	116
		Terphenyl-d14	100	94.9	95		10	105
Q1486-01	DN-B-40	2-Fluorophenol	150	99.0	66		18	112
		Phenol-d6	150	94.1	63		15	107
		Nitrobenzene-d5	100	81.2	81		18	107
		2-Fluorobiphenyl	100	77.8	78		20	109
		2,4,6-Tribromophenol	150	93.8	63		10	116
		Terphenyl-d14	100	60.0	60		10	105
Q1487-01MS	DN-B-42MS	2-Fluorophenol	150	107	71		18	112
		Phenol-d6	150	102	68		15	107
		Nitrobenzene-d5	100	87.4	87		18	107
		2-Fluorobiphenyl	100	73.3	73		20	109
		2,4,6-Tribromophenol	150	113	76		10	116
		Terphenyl-d14	100	55.5	56		10	105
Q1487-01MSD	DN-B-42MSD	2-Fluorophenol	150	109	72		18	112
		Phenol-d6	150	104	70		15	107
		Nitrobenzene-d5	100	89.9	90		18	107
		2-Fluorobiphenyl	100	75.0	75		20	109
		2,4,6-Tribromophenol	150	117	78		10	116
		Terphenyl-d14	100	56.9	57		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1486

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MS		**Client Sample ID: DN-B-42MS**						**DataFile: BF141844.D**			
Benzaldehyde	1900	0	850	ug/Kg	45				10	86	
Phenol	1900	0	1600	ug/Kg	84				67	126	
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84				54	125	
2-Chlorophenol	1900	0	1600	ug/Kg	84				79	107	
2-Methylphenol	1900	0	1600	ug/Kg	84				66	122	
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74				65	110	
Acetophenone	1900	0	1700	ug/Kg	89				75	111	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				66	104	
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74				59	119	
Hexachloroethane	1900	0	1600	ug/Kg	84				65	117	
Nitrobenzene	1900	0	1800	ug/Kg	95				70	119	
Isophorone	1900	0	1600	ug/Kg	84				76	122	
2-Nitrophenol	1900	0	1900	ug/Kg	100				54	145	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				44	135	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				68	112	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				72	118	
Naphthalene	1900	0	1600	ug/Kg	84				72	110	
4-Chloroaniline	1900	0	910	ug/Kg	48				10	91	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				66	114	
Caprolactam	1900	0	1900	ug/Kg	100				51	134	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				57	132	
2-Methylnaphthalene	1900	0	1500	ug/Kg	79				59	123	
Hexachlorocyclopentadiene	3800	0	4800	ug/Kg	126				10	175	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				72	117	
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95				72	117	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				75	113	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				67	118	
2-Nitroaniline	1900	0	1900	ug/Kg	100				69	127	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70	113	
Acenaphthylene	1900	0	1700	ug/Kg	89				79	118	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				70	125	
3-Nitroaniline	1900	0	1300	ug/Kg	68				30	99	
Acenaphthene	1900	0	1700	ug/Kg	89				70	121	
2,4-Dinitrophenol	3800	0	2700	ug/Kg	71				10	155	
4-Nitrophenol	3800	0	4200	ug/Kg	111				45	133	
Dibenzofuran	1900	0	1600	ug/Kg	84				72	110	
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105				55	128	
Diethylphthalate	1900	0	1500	ug/Kg	79				70	112	
4-Chlorophenyl-phenylether	1900	0	1500	ug/Kg	79				71	108	
Fluorene	1900	0	1600	ug/Kg	84				68	116	
4-Nitroaniline	1900	0	1900	ug/Kg	100				55	120	
4,6-Dinitro-2-methylphenol	1900	0	1500	ug/Kg	79				10	160	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				73	118	
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89				65	121	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				67	118	
Atrazine	1900	0	2400	ug/Kg	126				79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1486

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84				47	128	
Phenanthrene	1900	0	1700	ug/Kg	89				52	128	
Anthracene	1900	0	1700	ug/Kg	89				62	124	
Carbazole	1900	0	1700	ug/Kg	89				59	119	
Di-n-butylphthalate	1900	0	1500	ug/Kg	79				69	118	
Fluoranthene	1900	0	1500	ug/Kg	79				44	125	
Pyrene	1900	0	1400	ug/Kg	74				26	142	
Butylbenzylphthalate	1900	0	1400	ug/Kg	74				64	126	
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95				33	116	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				71	114	
Chrysene	1900	0	1600	ug/Kg	84				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	1400	ug/Kg	74				42	169	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				23	175	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				67	121	
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79				57	134	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68				40	129	
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68				43	123	
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				69	124	
1,4-Dioxane	1900	0	1600	ug/Kg	84				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1486

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MSD		**Client Sample ID: DN-B-42MSD**						**DataFile: BF141845.D**			
Benzaldehyde	1900	0	860	ug/Kg	45	0			10	86	20
Phenol	1900	0	1700	ug/Kg	89	6			67	126	20
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84	0			54	125	20
2-Chlorophenol	1900	0	1700	ug/Kg	89	6			79	107	20
2-Methylphenol	1900	0	1600	ug/Kg	84	0			66	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74	0			65	110	20
Acetophenone	1900	0	1800	ug/Kg	95	7			75	111	20
3+4-Methylphenols	1900	0	1600	ug/Kg	84	0			66	104	20
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74	0			59	119	20
Hexachloroethane	1900	0	1600	ug/Kg	84	0			65	117	20
Nitrobenzene	1900	0	1800	ug/Kg	95	0			70	119	20
Isophorone	1900	0	1600	ug/Kg	84	0			76	122	20
2-Nitrophenol	1900	0	1900	ug/Kg	100	0			54	145	20
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105	0			44	135	20
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79	0			68	112	20
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84	0			72	118	20
Naphthalene	1900	0	1600	ug/Kg	84	0			72	110	20
4-Chloroaniline	1900	0	950	ug/Kg	50	4			10	91	20
Hexachlorobutadiene	1900	0	1600	ug/Kg	84	0			66	114	20
Caprolactam	1900	0	1900	ug/Kg	100	0			51	134	20
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84	0			57	132	20
2-Methylnaphthalene	1900	0	1500	ug/Kg	79	0			59	123	20
Hexachlorocyclopentadiene	3800	0	4900	ug/Kg	129	2			10	175	20
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95	7			72	117	20
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95	0			72	117	20
1,1-Biphenyl	1900	0	1900	ug/Kg	100	5			75	113	20
2-Chloronaphthalene	1900	0	1700	ug/Kg	89	0			67	118	20
2-Nitroaniline	1900	0	2000	ug/Kg	105	5			69	127	20
Dimethylphthalate	1900	0	1600	ug/Kg	84	0			70	113	20
Acenaphthylene	1900	0	1800	ug/Kg	95	7			79	118	20
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100	0			70	125	20
3-Nitroaniline	1900	0	1400	ug/Kg	74	8			30	99	20
Acenaphthene	1900	0	1800	ug/Kg	95	7			70	121	20
2,4-Dinitrophenol	3800	0	2800	ug/Kg	74	4			10	155	20
4-Nitrophenol	3800	0	4300	ug/Kg	113	2			45	133	20
Dibenzofuran	1900	0	1600	ug/Kg	84	0			72	110	20
2,4-Dinitrotoluene	1900	0	2100	ug/Kg	111	6			55	128	20
Diethylphthalate	1900	0	1500	ug/Kg	79	0			70	112	20
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84	6			71	108	20
Fluorene	1900	0	1600	ug/Kg	84	0			68	116	20
4-Nitroaniline	1900	0	2000	ug/Kg	105	5			55	120	20
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84	6			10	160	20
N-Nitrosodiphenylamine	1900	0	1700	ug/Kg	89	7			73	118	20
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89	0			65	121	20
Hexachlorobenzene	1900	0	1700	ug/Kg	89	0			67	118	20
Atrazine	1900	0	2400	ug/Kg	126	0			79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1486

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84	0			47	128	20
Phenanthrene	1900	0	1700	ug/Kg	89	0			52	128	20
Anthracene	1900	0	1700	ug/Kg	89	0			62	124	20
Carbazole	1900	0	1700	ug/Kg	89	0			59	119	20
Di-n-butylphthalate	1900	0	1500	ug/Kg	79	0			69	118	20
Fluoranthene	1900	0	1600	ug/Kg	84	6			44	125	20
Pyrene	1900	0	1400	ug/Kg	74	0			26	142	20
Butylbenzylphthalate	1900	0	1400	ug/Kg	74	0			64	126	20
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95	0			33	116	20
Benzo(a)anthracene	1900	0	1700	ug/Kg	89	0			71	114	20
Chrysene	1900	0	1700	ug/Kg	89	6			57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	1500	ug/Kg	79	7			42	169	20
Di-n-octyl phthalate	1900	0	1800	ug/Kg	95	7			23	175	20
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89	6			67	121	20
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79	0			57	134	20
Benzo(a)pyrene	1900	0	1800	ug/Kg	95	7			70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	0			40	129	20
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74	8			43	123	20
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	0			24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1900	ug/Kg	100	5			69	124	20
1,4-Dioxane	1900	0	1600	ug/Kg	84	0			46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89	0			69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1486

Client: JPCL Engineering

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166984BS	Benzaldehyde	1700	710	ug/Kg	42				10	133	
	Phenol	1700	1300	ug/Kg	76				62	112	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1300	ug/Kg	76				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1100	ug/Kg	65				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1300	ug/Kg	76				58	111	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1600	ug/Kg	94				61	111	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	400	ug/Kg	24				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1600	ug/Kg	94				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	4900	ug/Kg	148				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				61	104	
	3-Nitroaniline	1700	850	ug/Kg	50				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3700	ug/Kg	112				37	128	
	4-Nitrophenol	3300	3800	ug/Kg	115				48	119	
	Dibenzofuran	1700	1300	ug/Kg	76				63	99	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1800	ug/Kg	106		*		64	103	
	4,6-Dinitro-2-methylphenol	1700	1900	ug/Kg	112				76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1486

Client: JPCL Engineering

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166984BS	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98	
	Atrazine	1700	2000	ug/Kg	118				47	152	
	Pentachlorophenol	3300	3000	ug/Kg	91				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1400	ug/Kg	82				59	103	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				55	103	
	3,3-Dichlorobenzidine	1700	720	ug/Kg	42				42	91	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				52	137	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166984BL

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG NO.: Q1486

Lab File ID: BF141859.D Lab Sample ID: PB166984BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) SOIL Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 10:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166984BS	PB166984BS	BF141860.D	03/06/2025
DN-B-40	Q1486-01	BF141853.D	03/05/2025
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1486 SDG NO.: Q1486

Lab File ID: BF141792.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	93.2
443	15.0 - 24.0% of mass 442	18.1 (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
SSTDICC2.5	SSTDICC2.5	BF141793.D	02/27/2025	15:17
SSTDICC005	SSTDICC005	BF141794.D	02/27/2025	15:46
SSTDICC010	SSTDICC010	BF141795.D	02/27/2025	16:16
SSTDICC020	SSTDICC020	BF141796.D	02/27/2025	16:46
SSTDICCC040	SSTDICCC040	BF141797.D	02/27/2025	17:16
SSTDICC050	SSTDICC050	BF141798.D	02/27/2025	17:46
SSTDICC060	SSTDICC060	BF141799.D	02/27/2025	18:15
SSTDICC080	SSTDICC080	BF141800.D	02/27/2025	18:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1486 SDG NO.: Q1486

Lab File ID: BF141834.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	84.3
443	15.0 - 24.0% of mass 442	16.7 (19.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141835.D	03/05/2025	10:09
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025	15:21
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025	15:51
DN-B-40	Q1486-01	BF141853.D	03/05/2025	19:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1486 SDG NO.: Q1486

Lab File ID: BF141857.D DFTPP Injection Date: 03/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	94.6
443	15.0 - 24.0% of mass 442	18.6 (19.7) 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	BF141858.D	03/06/2025	09:52
PB166984BL	PB166984BL	BF141859.D	03/06/2025	10:22
PB166984BS	PB166984BS	BF141860.D	03/06/2025	10:52

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG NO.: Q1486

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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	246608	6.887	945299	8.17	507589	9.92
	UPPER LIMIT	493216	7.387	1890600	8.669	1015180	10.422
	LOWER LIMIT	123304	6.387	472650	7.669	253795	9.422
	EPA SAMPLE NO.						
01	DN-B-42MS	192210	6.89	734232	8.17	370025	9.92
02	DN-B-42MSD	191311	6.89	731999	8.17	367233	9.92
03	DN-B-40	180762	6.89	682928	8.16	314183	9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG NO.: Q1486

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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	873644	11.404	595765	14.045	513355	15.51
	UPPER LIMIT	1747290	11.904	1191530	14.545	1026710	16.01
	LOWER LIMIT	436822	10.904	297883	13.545	256678	15.01
	EPA SAMPLE NO.						
01	DN-B-42MS	565314	11.40	409462	14.04	473342	15.51
02	DN-B-42MSD	575333	11.40	414755	14.04	465047	15.51
03	DN-B-40	451809	11.40	397290	14.04	284064	15.51

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.: Q1486 SAS No.: Q1486 SDG NO.: Q1486

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	207866	6.887	779725	8.17	422269	9.92
	UPPER LIMIT	415732	7.387	1559450	8.669	844538	10.422
	LOWER LIMIT	103933	6.387	389863	7.669	211135	9.422
	EPA SAMPLE NO.						
01	PB166984BL	218862	6.89	871720	8.16	477596	9.92
02	PB166984BS	222677	6.89	860348	8.17	467040	9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG NO.: Q1486

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	691934	11.404	434521	14.045	382575	15.515
	UPPER LIMIT	1383870	11.904	869042	14.545	765150	16.015
	LOWER LIMIT	345967	10.904	217261	13.545	191288	15.015
	EPA SAMPLE NO.						
01	PB166984BL	848035	11.40	691946	14.04	552165	15.51
02	PB166984BS	801941	11.41	537472	14.05	470320	15.52

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

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1486
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330	U	180	330	ug/Kg
108-95-2	Phenol	170	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	170	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	170	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	90.9	170	ug/Kg
98-86-2	Acetophenone	170	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	80.0	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	170	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	170	U	90.8	170	ug/Kg
78-59-1	Isophorone	170	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	170	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	75.5	170	ug/Kg
91-20-3	Naphthalene	170	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	170	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	83.3	170	ug/Kg
105-60-2	Caprolactam	330	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	170	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	170	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	170	U	81.7	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1486
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	170	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	170	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	330	U	120	330	ug/Kg
132-64-9	Dibenzofuran	170	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	170	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	85.6	170	ug/Kg
86-73-7	Fluorene	170	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	170	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	170	U	85.0	170	ug/Kg
1912-24-9	Atrazine	170	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	330	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	170	U	84.0	170	ug/Kg
120-12-7	Anthracene	170	U	84.4	170	ug/Kg
86-74-8	Carbazole	170	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	170	U	81.7	170	ug/Kg
129-00-0	Pyrene	170	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	80.7	170	ug/Kg
218-01-9	Chrysene	170	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	81.1	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1486
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	170	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	170	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	119		15 - 107	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		18 - 107	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167		10 - 116	111%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	872000	8.163			
15067-26-2	Acenaphthene-d10	478000	9.916			
1517-22-2	Phenanthrene-d10	848000	11.404			
1719-03-5	Chrysene-d12	692000	14.039			
1520-96-3	Perylene-d12	552000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	76.0	J		2.24	ug/Kg

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Report of Analysis

Client:	JPCL Engineering			Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges			Date Received:	
Client Sample ID:	PB166984BL			SDG No.:	Q1486
Lab Sample ID:	PB166984BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1486
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	710		180	330	ug/Kg
108-95-2	Phenol	1300		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1300		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	400		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1486
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	850		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1400		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1400		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.6	170	ug/Kg
218-01-9	Chrysene	1400		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.0	170	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1486
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	116		15 - 107	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		18 - 107	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.3		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		10 - 116	110%	SPK: 150
1718-51-0	Terphenyl-d14	94.9		10 - 105	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	6.887			
1146-65-2	Naphthalene-d8	860000	8.169			
15067-26-2	Acenaphthene-d10	467000	9.922			
1517-22-2	Phenanthrene-d10	802000	11.41			
1719-03-5	Chrysene-d12	537000	14.045			
1520-96-3	Perylene-d12	470000	15.515			

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:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1486
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	850		210	370	ug/Kg
108-95-2	Phenol	1600		94.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.9	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.7	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.4	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.7	190	ug/Kg
106-47-8	4-Chloroaniline	910		93.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.5	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4800	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		81.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		99.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.5	190	ug/Kg
88-74-4	2-Nitroaniline	1900		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1486
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		98.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1300		100	190	ug/Kg
83-32-9	Acenaphthene	1700		92.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2700		280	370	ug/Kg
100-02-7	4-Nitrophenol	4200	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.7	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		97.1	190	ug/Kg
86-73-7	Fluorene	1600		97.0	190	ug/Kg
100-01-6	4-Nitroaniline	1900		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.5	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.4	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.7	370	ug/Kg
85-01-8	Phenanthrene	1700		95.3	190	ug/Kg
120-12-7	Anthracene	1700		95.7	190	ug/Kg
86-74-8	Carbazole	1700		91.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.6	190	ug/Kg
206-44-0	Fluoranthene	1500		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.5	190	ug/Kg
218-01-9	Chrysene	1600		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		92.0	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1486
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		92.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	102		15 - 107	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		18 - 107	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	55.5		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.886			
1146-65-2	Naphthalene-d8	734000	8.169			
15067-26-2	Acenaphthene-d10	370000	9.922			
1517-22-2	Phenanthrene-d10	565000	11.404			
1719-03-5	Chrysene-d12	409000	14.039			
1520-96-3	Perylene-d12	473000	15.509			

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:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1486
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	860		210	370	ug/Kg
108-95-2	Phenol	1700		93.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.8	190	ug/Kg
95-57-8	2-Chlorophenol	1700		94.6	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1800		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.6	190	ug/Kg
106-47-8	4-Chloroaniline	950		93.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.4	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		80.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		99.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.4	190	ug/Kg
88-74-4	2-Nitroaniline	2000		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1486
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		98.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1400		100	190	ug/Kg
83-32-9	Acenaphthene	1800		91.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2800		280	370	ug/Kg
100-02-7	4-Nitrophenol	4300	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		97.0	190	ug/Kg
86-73-7	Fluorene	1600		96.9	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.4	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.3	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.6	370	ug/Kg
85-01-8	Phenanthrene	1700		95.2	190	ug/Kg
120-12-7	Anthracene	1700		95.6	190	ug/Kg
86-74-8	Carbazole	1700		91.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.5	190	ug/Kg
206-44-0	Fluoranthene	1600		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.4	190	ug/Kg
218-01-9	Chrysene	1700		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		91.9	190	ug/Kg

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Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1486
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		92.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		18 - 112	72%	SPK: 150
13127-88-3	Phenol-d6	104		15 - 107	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.9		18 - 107	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		20 - 109	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		10 - 116	78%	SPK: 150
1718-51-0	Terphenyl-d14	56.9		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.886			
1146-65-2	Naphthalene-d8	732000	8.169			
15067-26-2	Acenaphthene-d10	367000	9.922			
1517-22-2	Phenanthrene-d10	575000	11.404			
1719-03-5	Chrysene-d12	415000	14.039			
1520-96-3	Perylene-d12	465000	15.509			

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_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF1418
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.554	0.541	0.568	4.81
3)		Pyridine		1.403	1.412	1.486	1.476	1.380	1.389	1.350	1.414	3.54
4)		n-Nitrosodimet...		0.634	0.666	0.689	0.730	0.674	0.686	0.683	0.680	4.21
5)	S	2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.176	1.131	1.252	6.91
6)		Aniline		1.746	1.727	1.805	1.809	1.642	1.625	1.509	1.695	6.42
7)	S	Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.523	1.477	1.630	6.90
8)		2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.266	1.220	1.355	6.72
9)		Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.824	0.694	0.948	16.84
10)	C	Phenol		1.854	1.823	1.866	1.819	1.641	1.625	1.564	1.742	7.26
11)		bis(2-Chloroet...		1.377	1.376	1.392	1.339	1.279	1.265	1.265	1.328	4.26
12)		1,3-Dichlorobe...		1.544	1.520	1.541	1.504	1.378	1.361	1.308	1.451	6.80
13)	C	1,4-Dichlorobe...		1.554	1.533	1.549	1.512	1.390	1.377	1.317	1.462	6.66
14)		1,2-Dichlorobe...		1.493	1.444	1.476	1.401	1.286	1.270	1.186	1.365	8.63
15)		Benzyl Alcohol		1.347	1.353	1.374	1.366	1.258	1.241	1.180	1.303	5.82
16)		2,2'-oxybis(1-...		2.139	2.094	2.149	2.079	1.930	1.910	1.814	2.016	6.47
17)		2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.084	1.049	1.118	4.22
18)		Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.530	0.513	0.547	4.39
19)	P	n-Nitroso-di-n...	1.133	1.136	1.105	1.120	1.087	1.009	1.007	0.975	1.072	6.01
20)		3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.281	1.198	1.392	9.29
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.539	0.517	0.512	0.497	0.456	0.455	0.434	0.487	8.04
23)	S	Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.340	0.339	0.313	12.10
24)		Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.357	0.354	0.335	10.07
25)		Isophorone		0.702	0.682	0.690	0.682	0.642	0.659	0.649	0.672	3.35
26)	C	2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.155	0.158	0.127	25.21
27)		2,4-Dimethylph...		0.258	0.250	0.256	0.254	0.238	0.238	0.236	0.247	3.87
28)		bis(2-Chloroet...		0.463	0.448	0.450	0.435	0.404	0.408	0.394	0.429	6.19
29)	C	2,4-Dichloroph...		0.280	0.288	0.296	0.298	0.277	0.281	0.275	0.285	3.20
30)		1,2,4-Trichlor...		0.328	0.321	0.327	0.319	0.298	0.301	0.292	0.312	4.71
31)		Naphthalene		1.140	1.097	1.100	1.043	0.960	0.950	0.906	1.028	8.74
32)		Benzoic acid			0.099	0.145	0.191	0.200	0.215	0.226	0.179	26.89
33)		4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.356	0.360	0.377	5.66
34)	C	Hexachlorobuta...		0.199	0.193	0.202	0.199	0.188	0.191	0.187	0.194	2.98
35)		Caprolactam		0.087	0.086	0.090	0.091	0.085	0.089	0.086	0.088	2.77
36)	C	4-Chloro-3-met...		0.333	0.316	0.329	0.326	0.300	0.310	0.303	0.317	4.16
37)		2-Methylnaphth...		0.762	0.725	0.723	0.677	0.621	0.619	0.591	0.674	9.66
38)		1-Methylnaphth...		0.734	0.688	0.697	0.652	0.594	0.594	0.570	0.647	9.67

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03
41)	P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87
42)	S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80
43)	C	2,4,6-Trichlor...	0.355	0.368	0.381	0.398	0.366	0.368	0.377	0.373	3.65
44)		2,4,5-Trichlor...	0.348	0.364	0.388	0.383	0.364	0.380	0.360	0.369	3.89
45)	S	2-Fluorobiphenyl	1.443	1.387	1.346	1.237	1.128	1.141	1.049	1.247	11.93
46)		1,1'-Biphenyl	1.694	1.659	1.630	1.519	1.413	1.419	1.323	1.522	9.38
47)		2-Chloronaphth...	1.211	1.184	1.201	1.135	1.058	1.071	1.006	1.124	7.10
48)		2-Nitroaniline	0.152	0.187	0.246	0.300	0.297	0.319	0.323	0.260	26.00
49)		Acenaphthylene	1.847	1.809	1.798	1.711	1.560	1.596	1.472	1.685	8.54
50)		Dimethylphthalate	1.431	1.405	1.405	1.363	1.262	1.285	1.224	1.339	6.09
51)		2,6-Dinitrotol...	0.136	0.184	0.231	0.257	0.251	0.265	0.261	0.226	21.50
52)	C	Acenaphthene	1.217	1.201	1.197	1.150	1.068	1.084	1.039	1.137	6.37
53)		3-Nitroaniline	0.146	0.193	0.243	0.277	0.264	0.282	0.280	0.241	21.68
54)	P	2,4-Dinitrophenol		0.049	0.066	0.093	0.096	0.112	0.116	0.089	29.73
55)		Dibenzofuran	1.850	1.794	1.765	1.663	1.532	1.542	1.436	1.654	9.40
56)	P	4-Nitrophenol	0.129	0.159	0.197	0.228	0.215	0.229	0.227	0.198	19.87
57)		2,4-Dinitrotol...	0.151	0.198	0.265	0.313	0.310	0.325	0.320	0.269	25.57
58)		Fluorene	1.433	1.367	1.313	1.228	1.128	1.134	1.072	1.239	10.97
59)		2,3,4,6-Tetrac...	0.313	0.314	0.336	0.339	0.309	0.322	0.315	0.321	3.66
60)		Diethylphthalate	1.429	1.413	1.428	1.383	1.259	1.275	1.212	1.343	6.78
61)		4-Chlorophenyl...	0.691	0.665	0.654	0.620	0.572	0.583	0.562	0.621	8.09
62)		4-Nitroaniline	0.149	0.187	0.229	0.267	0.248	0.265	0.256	0.229	19.54
63)		Azobenzene	1.544	1.503	1.505	1.437	1.320	1.325	1.262	1.414	7.81
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.043	0.063	0.087	0.090	0.100	0.103	0.081	28.86
66)	c	n-Nitrosodiphe...	0.702	0.681	0.689	0.665	0.631	0.623	0.607	0.657	5.56
67)		4-Bromophenyl-...	0.241	0.237	0.239	0.238	0.227	0.230	0.224	0.234	2.86
68)		Hexachlorobenzene	0.253	0.249	0.255	0.251	0.240	0.242	0.237	0.247	2.79
69)		Atrazine	0.213	0.208	0.196	0.179	0.149	0.139		0.181	17.11
70)	C	Pentachlorophenol	0.137	0.146	0.161	0.169	0.159	0.164	0.160	0.156	7.07
71)		Phenanthrene	1.186	1.152	1.134	1.073	1.001	1.001	0.940	1.070	8.58
72)		Anthracene	1.203	1.156	1.155	1.068	1.002	0.990	0.931	1.072	9.54
73)		Carbazole	1.074	1.010	1.014	0.955	0.882	0.871	0.821	0.947	9.69
74)		Di-n-butylphth...	1.335	1.291	1.291	1.208	1.128	1.114	1.035	1.200	9.30
75)	C	Fluoranthene	1.285	1.216	1.192	1.089	0.992	0.981	0.917	1.096	12.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.342	0.198	0.259	0.214	0.181	0.316	0.252	26.09
78)		Pyrene	1.698	1.687	1.815	1.796	1.738	1.734	1.656	1.732	3.32
79)	S	Terphenyl-d14	1.250	1.233	1.297	1.259	1.230	1.227	1.157	1.236	3.43
80)		Butylbenzylpht...	0.546	0.579	0.643	0.668	0.650	0.667	0.652	0.629	7.54
81)		Benzo(a)anthra...	1.367	1.387	1.384	1.312	1.244	1.262	1.292	1.321	4.46
82)		3,3'-Dichlorob...	0.406	0.380	0.382	0.393	0.364	0.364	0.365	0.379	4.27
83)		Chrysene	1.303	1.184	1.235	1.265	1.185	1.209	1.144	1.218	4.42
84)		Bis(2-ethylhex...	0.702	0.696	0.788	0.832	0.811	0.828	0.827	0.783	7.59
85)	c	Di-n-octyl pht...	0.903	0.922	1.109	1.307	1.304	1.318	1.348	1.173	16.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.097	1.126	1.240	1.346	1.337	1.371	1.397	1.274	9.52
88)		Benzo(b)fluora...	1.442	1.396	1.533	1.306	1.232	1.370	1.256	1.362	7.81
89)		Benzo(k)fluora...	1.274	1.240	1.098	1.214	1.165	1.040	1.074	1.158	7.70
90)	C	Benzo(a)pyrene	1.113	1.083	1.133	1.119	1.060	1.080	1.060	1.093	2.68
91)		Dibenzo(a,h)an...	0.902	0.931	1.025	1.109	1.094	1.101	1.115	1.040	8.63
92)		Benzo(g,h,i)pe...	0.898	0.929	1.034	1.130	1.129	1.156	1.179	1.065	10.60

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG No.: Q1486

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.834		-12.0	
Phenol-d6	1.630	1.613		-1.0	
Phenol	1.742	1.734		-0.5	20.0
bis(2-Chloroethyl)ether	1.328	1.232		-7.2	
2-Chlorophenol	1.355	1.354		-0.1	
2-Methylphenol	1.118	1.094		-2.1	
2,2-oxybis(1-Chloropropane)	2.016	1.771		-12.2	
Acetophenone	0.487	0.480		-1.4	
3+4-Methylphenols	1.392	1.384		-0.6	
n-Nitroso-di-n-propylamine	1.072	0.955	0.050	-10.9	
Nitrobenzene-d5	0.313	0.371		18.5	
Hexachloroethane	0.547	0.522		-4.6	
Nitrobenzene	0.335	0.375		11.9	
Isophorone	0.672	0.633		-5.8	
2-Nitrophenol	0.127	0.179		40.9	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.395		-7.9	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.378		0.3	
Hexachlorobutadiene	0.194	0.187		-3.6	20.0
Caprolactam	0.088	0.098		11.4	
4-Chloro-3-methylphenol	0.317	0.324		2.2	20.0
2-Methylnaphthalene	0.674	0.657		-2.5	
Hexachlorocyclopentadiene	0.241	0.235	0.050	-2.5	
2,4,6-Trichlorophenol	0.373	0.395		5.9	20.0
2-Fluorobiphenyl	1.247	1.230		-1.4	
2,4,5-Trichlorophenol	0.369	0.412		11.7	
1,1-Biphenyl	1.522	1.505		-1.1	
2-Chloronaphthalene	1.124	1.144		1.8	
2-Nitroaniline	0.260	0.374		43.8	
Dimethylphthalate	1.339	1.326		-1.0	
Acenaphthylene	1.685	1.726		2.4	
2,6-Dinitrotoluene	0.226	0.297		31.4	
3-Nitroaniline	0.241	0.328		36.1	
Acenaphthene	1.137	1.188		4.5	20.0
2,4-Dinitrophenol	0.089	0.149	0.050	67.4	
4-Nitrophenol	0.198	0.283	0.050	42.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG No.: Q1486

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.670		1.0	
2,4-Dinitrotoluene	0.269	0.392		45.7	
Diethylphthalate	1.343	1.320		-1.7	
4-Chlorophenyl-phenylether	0.621	0.606		-2.4	
Fluorene	1.239	1.253		1.1	
4-Nitroaniline	0.229	0.330		44.1	
4,6-Dinitro-2-methylphenol	0.081	0.122		50.6	
n-Nitrosodiphenylamine	0.657	0.638		-2.9	20.0
2,4,6-Tribromophenol	0.188	0.210		11.7	
4-Bromophenyl-phenylether	0.234	0.223		-4.7	
Hexachlorobenzene	0.247	0.245		-0.8	
Atrazine	0.181	0.156		-13.8	
Pentachlorophenol	0.156	0.176		12.8	20.0
Phenanthrene	1.070	1.082		1.1	
Anthracene	1.072	1.088		1.5	
Carbazole	0.947	0.990		4.5	
Di-n-butylphthalate	1.200	1.131		-5.8	
Fluoranthene	1.096	1.157		5.6	20.0
Pyrene	1.732	1.722		-0.6	
Terphenyl-d14	1.236	1.190		-3.7	
Butylbenzylphthalate	0.629	0.646		2.7	
3,3-Dichlorobenzidine	0.379	0.382		0.8	
Benzo(a)anthracene	1.321	1.308		-1.0	
Chrysene	1.218	1.190		-2.3	
Bis(2-ethylhexyl)phthalate	0.783	0.807		3.1	
Di-n-octyl phthalate	1.173	1.132		-3.5	20.0
Benzo(b)fluoranthene	1.362	1.368		0.4	
Benzo(k)fluoranthene	1.158	1.057		-8.7	
Benzo(a)pyrene	1.093	1.074		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.310		2.8	
Dibenzo(a,h)anthracene	1.040	1.067		2.6	
Benzo(g,h,i)perylene	1.065	1.105		3.8	
1,2,4,5-Tetrachlorobenzene	0.578	0.577		-0.2	
1,4-Dioxane	0.568	0.571		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.351		9.3	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG No.: Q1486

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.847		-10.7	
Phenol-d6	1.630	1.584		-2.8	
Phenol	1.742	1.692		-2.9	20.0
bis(2-Chloroethyl)ether	1.328	1.246		-6.2	
2-Chlorophenol	1.355	1.366		0.8	
2-Methylphenol	1.118	1.076		-3.8	
2,2-oxybis(1-Chloropropane)	2.016	1.664		-17.5	
Acetophenone	0.487	0.490		0.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	0.946	0.050	-11.8	
Nitrobenzene-d5	0.313	0.382		22.0	
Hexachloroethane	0.547	0.554		1.3	
Nitrobenzene	0.335	0.382		14.0	
Isophorone	0.672	0.635		-5.5	
2-Nitrophenol	0.127	0.188		48.0	20.0
2,4-Dimethylphenol	0.247	0.253		2.4	
bis(2-Chloroethoxy)methane	0.429	0.412		-4.0	
2,4-Dichlorophenol	0.285	0.305		7.0	20.0
Naphthalene	1.028	1.054		2.5	
4-Chloroaniline	0.377	0.374		-0.8	
Hexachlorobutadiene	0.194	0.208		7.2	20.0
Caprolactam	0.088	0.093		5.7	
4-Chloro-3-methylphenol	0.317	0.330		4.1	20.0
2-Methylnaphthalene	0.674	0.684		1.5	
Hexachlorocyclopentadiene	0.241	0.266	0.050	10.4	
2,4,6-Trichlorophenol	0.373	0.399		7.0	20.0
2-Fluorobiphenyl	1.247	1.292		3.6	
2,4,5-Trichlorophenol	0.369	0.413		11.9	
1,1-Biphenyl	1.522	1.560		2.5	
2-Chloronaphthalene	1.124	1.157		2.9	
2-Nitroaniline	0.260	0.356		36.9	
Dimethylphthalate	1.339	1.363		1.8	
Acenaphthylene	1.685	1.735		3.0	
2,6-Dinitrotoluene	0.226	0.300		32.7	
3-Nitroaniline	0.241	0.314		30.3	
Acenaphthene	1.137	1.209		6.3	20.0
2,4-Dinitrophenol	0.089	0.159	0.050	78.7	
4-Nitrophenol	0.198	0.262	0.050	32.3	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1486 SAS No.: Q1486 SDG No.: Q1486

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.682		1.7	
2,4-Dinitrotoluene	0.269	0.396		47.2	
Diethylphthalate	1.343	1.344		0.1	
4-Chlorophenyl-phenylether	0.621	0.640		3.1	
Fluorene	1.239	1.270		2.5	
4-Nitroaniline	0.229	0.307		34.1	
4,6-Dinitro-2-methylphenol	0.081	0.132		63.0	
n-Nitrosodiphenylamine	0.657	0.670		2.0	20.0
2,4,6-Tribromophenol	0.188	0.224		19.1	
4-Bromophenyl-phenylether	0.234	0.243		3.8	
Hexachlorobenzene	0.247	0.266		7.7	
Atrazine	0.181	0.155		-14.4	
Pentachlorophenol	0.156	0.186		19.2	20.0
Phenanthrene	1.070	1.115		4.2	
Anthracene	1.072	1.115		4.0	
Carbazole	0.947	0.988		4.3	
Di-n-butylphthalate	1.200	1.188		-1.0	
Fluoranthene	1.096	1.142		4.2	20.0
Pyrene	1.732	1.820		5.1	
Terphenyl-d14	1.236	1.301		5.3	
Butylbenzylphthalate	0.629	0.650		3.3	
3,3-Dichlorobenzidine	0.379	0.405		6.9	
Benzo(a)anthracene	1.321	1.360		3.0	
Chrysene	1.218	1.218		0.0	
Bis(2-ethylhexyl)phthalate	0.783	0.799		2.0	
Di-n-octyl phthalate	1.173	1.163		-0.9	20.0
Benzo(b)fluoranthene	1.362	1.388		1.9	
Benzo(k)fluoranthene	1.158	1.073		-7.3	
Benzo(a)pyrene	1.093	1.113		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.507		18.3	
Dibenzo(a,h)anthracene	1.040	1.220		17.3	
Benzo(g,h,i)perylene	1.065	1.282		20.4	
1,2,4,5-Tetrachlorobenzene	0.578	0.607		5.0	
1,4-Dioxane	0.568	0.556		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.362		12.8	

All other compounds must meet a minimum RRF of 0.010.