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



# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1322 | **OrderDate:** | 2/6/2025 1:17:00 PM |
| **Client:** | Spectra East Inc. | **Project:** | Outfall 001 - Orangetown Dis Permit 2025 |
| **Contact:** | Jacob Valeich | **Location:** | N41,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1322-01** | **MANHOLE** | **Water** | | | **02/06/25** | | | **02/06/25** |
| | | | SVOCMS Group1 | 625.1 | | 02/07/25 | 02/10/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1322

**Client:** Spectra East Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | | | | | | | | |
| | | | | 0.000 | | | | |
| | | | **Total Svoc :** | | **0.00** | | | |
| | | | **Total Concentration:** | | **0.00** | | | |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Spectra East Inc. | Date Collected: | 02/06/25 |
| Project: | Outfall 001 - Orangetown Dis Permit 2025 | Date Received: | 02/06/25 |
| Client Sample ID: | MANHOLE | SDG No.: | Q1322 |
| Lab Sample ID: | Q1322-01 | Matrix: | Water |
| Analytical Method: | 625.1 | % Solid: | 0 |
| Sample Wt/Vol: | 960 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141536.D | 1 | 02/07/25 11:55 | 02/10/25 15:57 | PB166619 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2.00 | U | 2.00 | 5.20 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 76.4 | | 60 - 140 | 76% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 78.4 | | 60 - 140 | 78% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 89.2 | | 60 - 140 | 89% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 73100 | 6.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 289000 | 8.069 | | | |
| 15067-26-2 | Acenaphthene-d10 | 158000 | 9.822 | | | |
| 1517-22-2 | Phenanthrene-d10 | 269000 | 11.31 | | | |
| 1719-03-5 | Chrysene-d12 | 203000 | 13.951 | | | |
| 1520-96-3 | Perylene-d12 | 147000 | 15.416 | | | |

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.:** Q1322

**Client:** Spectra East Inc.

**Analytical Method:** 625.1

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB166619BL | PB166619BL | Nitrobenzene-d5 | 100 | 90.2 | 90 | | 60 | 140 |
| | | 2-Fluorobiphenyl | 100 | 90.0 | 90 | | 60 | 140 |
| | | Terphenyl-d14 | 100 | 81.1 | 81 | | 60 | 140 |
| PB166619BS | PB166619BS | Nitrobenzene-d5 | 100 | 95.0 | 95 | | 60 | 140 |
| | | 2-Fluorobiphenyl | 100 | 96.3 | 96 | | 60 | 140 |
| | | Terphenyl-d14 | 100 | 102 | 102 | | 60 | 140 |
| PB166619BSD | PB166619BSD | Nitrobenzene-d5 | 100 | 94.9 | 95 | | 60 | 140 |
| | | 2-Fluorobiphenyl | 100 | 95.9 | 96 | | 60 | 140 |
| | | Terphenyl-d14 | 100 | 94.7 | 95 | | 60 | 140 |
| Q1322-01 | MANHOLE | Nitrobenzene-d5 | 100 | 76.4 | 76 | | 60 | 140 |
| | | 2-Fluorobiphenyl | 100 | 78.4 | 78 | | 60 | 140 |
| | | Terphenyl-d14 | 100 | 89.2 | 89 | | 60 | 140 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1322

**Client:** Spectra East Inc.

**Analytical Method:** 625.1 **DataFile:** BF141533.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB166619BS | bis(2-Ethylhexyl)phthalate | 50 | 50.9 | ug/L | 102 | | | | 43 | 137 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1322

**Client:** Spectra East Inc.

**Analytical Method:** 625.1 **DataFile:** BF141534.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB166619BSD | bis(2-Ethylhexyl)phthalate | 50 | 54.6 | ug/L | 109 | 7 | | | 43 | 137 | 20 |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166619BL

Lab Name: CHEMTECH Contract: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

Lab File ID: BF141535.D Lab Sample ID: PB166619BL

Instrument ID: BNA_F Date Extracted: 02/07/2025

Matrix: (soil/water) Water Date Analyzed: 02/10/2025

Level: (low/med) LOW Time Analyzed: 15:17

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB166619BS | PB166619BS | BF141533.D | 02/10/2025 |
| PB166619BSD | PB166619BSD | BF141534.D | 02/10/2025 |
| MANHOLE | Q1322-01 | BF141536.D | 02/10/2025 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: SPEC01

Lab Code: CHEM SAS No.: Q1322 SDG NO.: Q1322

Lab File ID: BF141471.D DFTPP Injection Date: 02/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:41

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 43.2 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 36.7 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 49.1 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 25.6 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 12.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 14.4 (18.9) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF141472.D | 02/06/2025 | 11:07 |
| SSTDICC005 | SSTDICC005 | BF141473.D | 02/06/2025 | 11:34 |
| SSTDICC010 | SSTDICC010 | BF141474.D | 02/06/2025 | 12:00 |
| SSTDICC020 | SSTDICC020 | BF141475.D | 02/06/2025 | 12:26 |
| SSTDICCC040 | SSTDICCC040 | BF141476.D | 02/06/2025 | 12:55 |
| SSTDICC050 | SSTDICC050 | BF141477.D | 02/06/2025 | 13:21 |
| SSTDICC060 | SSTDICC060 | BF141478.D | 02/06/2025 | 13:47 |
| SSTDICC080 | SSTDICC080 | BF141479.D | 02/06/2025 | 14:14 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: SPEC01

Lab Code: CHEM SAS No.: Q1322 SDG NO.: Q1322

Lab File ID: BF141530.D DFTPP Injection Date: 02/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:08

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 43.6 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 37.3 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 49.9 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 27.1 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 12.7 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 15.4 (19.5) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF141531.D | 02/10/2025 | 11:34 |
| PB166619BS | PB166619BS | BF141533.D | 02/10/2025 | 12:26 |
| PB166619BSD | PB166619BSD | BF141534.D | 02/10/2025 | 14:50 |
| PB166619BL | PB166619BL | BF141535.D | 02/10/2025 | 15:17 |
| MANHOLE | Q1322-01 | BF141536.D | 02/10/2025 | 15:57 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/10/2025

Lab File ID: BF141531.D Time Analyzed: 11:34

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 91504 | 6.792 | 356056 | 8.08 | 192109 | 9.83 |
| | UPPER LIMIT | 183008 | 7.292 | 712112 | 8.575 | 384218 | 10.327 |
| | LOWER LIMIT | 45752 | 6.292 | 178028 | 7.575 | 96054.5 | 9.327 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB166619BS | 90197 | 6.79 | 363645 | 8.08 | 200498 | 9.83 |
| 02 | PB166619BL | 97885 | 6.79 | 393922 | 8.07 | 221436 | 9.82 |
| 03 | PB166619BSD | 95997 | 6.79 | 377178 | 8.07 | 209865 | 9.83 |
| 04 | MANHOLE | 73137 | 6.79 | 289023 | 8.07 | 157501 | 9.82 |

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.: Q1322 SAS No.: Q1322 SDG NO.: Q1322

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/10/2025

Lab File ID: BF141531.D Time Analyzed: 11:34

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 313129 | 11.316 | 193608 | 13.963 | 177316 | 15.439 |
| | UPPER LIMIT | 626258 | 11.816 | 387216 | 14.463 | 354632 | 15.939 |
| | LOWER LIMIT | 156565 | 10.816 | 96804 | 13.463 | 88658 | 14.939 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB166619BS | 341345 | 11.32 | 224165 | 13.96 | 193889 | 15.45 |
| 02 | PB166619BL | 390652 | 11.31 | 341278 | 13.95 | 281271 | 15.40 |
| 03 | PB166619BSD | 377001 | 11.32 | 279833 | 13.96 | 213547 | 15.41 |
| 04 | MANHOLE | 269181 | 11.31 | 202540 | 13.95 | 146679 | 15.42 |

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: | Spectra East Inc. | Date Collected: | |
| Project: | Outfall 001 - Orangetown Dis Permit 2025 | Date Received: | |
| Client Sample ID: | PB166619BL | SDG No.: | Q1322 |
| Lab Sample ID: | PB166619BL | Matrix: | Water |
| Analytical Method: | 625.1 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141535.D | 1 | 02/07/25 11:55 | 02/10/25 15:17 | PB166619 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 90.2 | | 60 - 140 | 90% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.0 | | 60 - 140 | 90% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 81.1 | | 60 - 140 | 81% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 97900 | 6.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 394000 | 8.069 | | | |
| 15067-26-2 | Acenaphthene-d10 | 221000 | 9.822 | | | |
| 1517-22-2 | Phenanthrene-d10 | 391000 | 11.31 | | | |
| 1719-03-5 | Chrysene-d12 | 341000 | 13.951 | | | |
| 1520-96-3 | Perylene-d12 | 281000 | 15.404 | | | |

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: | Spectra East Inc. | Date Collected: | |
| Project: | Outfall 001 - Orangetown Dis Permit 2025 | Date Received: | |
| Client Sample ID: | PB166619BS | SDG No.: | Q1322 |
| Lab Sample ID: | PB166619BS | Matrix: | Water |
| Analytical Method: | 625.1 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141533.D | 1 | 02/07/25 11:55 | 02/10/25 12:26 | PB166619 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 50.9 | | 1.90 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 95.0 | | 60 - 140 | 95% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 96.3 | | 60 - 140 | 96% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 102 | | 60 - 140 | 102% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 90200 | 6.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 364000 | 8.075 | | | |
| 15067-26-2 | Acenaphthene-d10 | 200000 | 9.828 | | | |
| 1517-22-2 | Phenanthrene-d10 | 341000 | 11.316 | | | |
| 1719-03-5 | Chrysene-d12 | 224000 | 13.963 | | | |
| 1520-96-3 | Perylene-d12 | 194000 | 15.445 | | | |

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
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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: | Spectra East Inc. | Date Collected: | |
| Project: | Outfall 001 - Orangetown Dis Permit 2025 | Date Received: | |
| Client Sample ID: | PB166619BSD | SDG No.: | Q1322 |
| Lab Sample ID: | PB166619BSD | Matrix: | Water |
| Analytical Method: | 625.1 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOCMS Group1 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141534.D | 1 | 02/07/25 11:55 | 02/10/25 14:50 | PB166619 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 54.6 | | 1.90 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 4165-60-0 | Nitrobenzene-d5 | 94.9 | | 60 - 140 | 95% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 95.9 | | 60 - 140 | 96% | SPK: 100 |
| 1718-51-0 | Terphenyl-d14 | 94.7 | | 60 - 140 | 95% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 96000 | 6.787 | | | |
| 1146-65-2 | Naphthalene-d8 | 377000 | 8.069 | | | |
| 15067-26-2 | Acenaphthene-d10 | 210000 | 9.828 | | | |
| 1517-22-2 | Phenanthrene-d10 | 377000 | 11.316 | | | |
| 1719-03-5 | Chrysene-d12 | 280000 | 13.957 | | | |
| 1520-96-3 | Perylene-d12 | 214000 | 15.41 | | | |

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141472.D 5 =BF141473.D 10 =BF141474.D 20 =BF141475.D 40 =BF141476.D 50 =BF141477.D 60 =BF141478.D 80 =BF1414
79.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.511 | 0.519 | 0.523 | 0.517 | 0.502 | 0.521 | 0.501 | 0.513 | 1.73 |
| 3) | | Pyridine | | 1.053 | 1.205 | 1.311 | 1.263 | 1.256 | 1.261 | 1.204 | 1.222 | 6.79 |
| 4) | | n-Nitrosodimet... | | 0.737 | 0.774 | 0.820 | 0.818 | 0.835 | 0.846 | 0.833 | 0.809 | 4.83 |
| 5) | S | 2-Fluorophenol | | 1.235 | 1.290 | 1.365 | 1.289 | 1.273 | 1.264 | 1.214 | 1.276 | 3.77 |
| 6) | | Aniline | | 1.476 | 1.545 | 1.650 | 1.538 | 1.506 | 1.494 | 1.379 | 1.513 | 5.42 |
| 7) | S | Phenol-d6 | | 1.619 | 1.629 | 1.704 | 1.613 | 1.599 | 1.585 | 1.538 | 1.612 | 3.13 |
| 8) | | 2-Chlorophenol | | 1.399 | 1.410 | 1.446 | 1.379 | 1.368 | 1.345 | 1.302 | 1.378 | 3.38 |
| 9) | | Benzaldehyde | | 0.892 | 0.993 | 0.981 | 0.821 | 0.747 | 0.706 | | 0.857 | 13.92 |
| 10) | C | Phenol | | 1.693 | 1.681 | 1.817 | 1.685 | 1.659 | 1.644 | 1.569 | 1.678 | 4.42 |
| 11) | | bis(2-Chloroet... | | 1.262 | 1.229 | 1.296 | 1.266 | 1.252 | 1.262 | 1.256 | 1.261 | 1.59 |
| 12) | | 1,3-Dichlorobe... | | 1.473 | 1.482 | 1.554 | 1.441 | 1.441 | 1.430 | 1.366 | 1.455 | 3.95 |
| 13) | C | 1,4-Dichlorobe... | | 1.546 | 1.538 | 1.571 | 1.471 | 1.465 | 1.439 | 1.379 | 1.487 | 4.59 |
| 14) | | 1,2-Dichlorobe... | | 1.393 | 1.439 | 1.473 | 1.374 | 1.351 | 1.345 | 1.285 | 1.380 | 4.55 |
| 15) | | Benzyl Alcohol | | 1.191 | 1.251 | 1.322 | 1.262 | 1.248 | 1.218 | 1.163 | 1.236 | 4.19 |
| 16) | | 2,2'-oxybis(1-... | | 2.222 | 2.245 | 2.313 | 2.165 | 2.119 | 2.082 | 1.959 | 2.158 | 5.45 |
| 17) | | 2-Methylphenol | | 1.116 | 1.089 | 1.121 | 1.077 | 1.059 | 1.066 | 1.024 | 1.079 | 3.15 |
| 18) | | Hexachloroethane | | 0.539 | 0.545 | 0.589 | 0.553 | 0.556 | 0.544 | 0.526 | 0.550 | 3.59 |
| 19) | P | n-Nitroso-di-n... | 0.950 | 0.978 | 0.985 | 1.039 | 0.969 | 0.947 | 0.941 | 0.907 | 0.964 | 4.03 |
| 20) | | 3+4-Methylphenols | | 1.442 | 1.417 | 1.459 | 1.372 | 1.344 | 1.319 | 1.244 | 1.371 | 5.52 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.517 | 0.502 | 0.521 | 0.493 | 0.483 | 0.488 | 0.478 | 0.498 | 3.35 |
| 23) | S | Nitrobenzene-d5 | | 0.380 | 0.379 | 0.396 | 0.385 | 0.378 | 0.381 | 0.384 | 0.383 | 1.58 |
| 24) | | Nitrobenzene | | 0.370 | 0.371 | 0.383 | 0.374 | 0.369 | 0.375 | 0.376 | 0.374 | 1.29 |
| 25) | | Isophorone | | 0.611 | 0.594 | 0.633 | 0.611 | 0.601 | 0.617 | 0.614 | 0.611 | 2.04 |
| 26) | C | 2-Nitrophenol | | 0.171 | 0.175 | 0.190 | 0.193 | 0.190 | 0.193 | 0.191 | 0.186 | 4.91 |
| 27) | | 2,4-Dimethylph... | | 0.208 | 0.212 | 0.221 | 0.223 | 0.218 | 0.220 | 0.220 | 0.217 | 2.46 |
| 28) | | bis(2-Chloroet... | | 0.384 | 0.390 | 0.408 | 0.394 | 0.387 | 0.391 | 0.388 | 0.392 | 2.03 |
| 29) | C | 2,4-Dichloroph... | | 0.286 | 0.287 | 0.312 | 0.296 | 0.290 | 0.292 | 0.292 | 0.294 | 2.95 |
| 30) | | 1,2,4-Trichlor... | | 0.327 | 0.321 | 0.331 | 0.317 | 0.312 | 0.317 | 0.314 | 0.320 | 2.12 |
| 31) | | Naphthalene | | 1.067 | 1.041 | 1.096 | 1.037 | 1.012 | 1.022 | 1.012 | 1.041 | 2.98 |
| 32) | | Benzoic acid | | | 0.186 | 0.217 | 0.229 | 0.233 | 0.243 | 0.246 | 0.226 | 9.70 |
| 33) | | 4-Chloroaniline | | 0.354 | 0.352 | 0.382 | 0.364 | 0.360 | 0.364 | 0.370 | 0.363 | 2.82 |
| 34) | C | Hexachlorobuta... | | 0.193 | 0.191 | 0.200 | 0.192 | 0.188 | 0.191 | 0.189 | 0.192 | 2.01 |
| 35) | | Caprolactam | | 0.083 | 0.085 | 0.094 | 0.093 | 0.088 | 0.091 | 0.092 | 0.089 | 4.75 |
| 36) | C | 4-Chloro-3-met... | | 0.310 | 0.324 | 0.342 | 0.329 | 0.324 | 0.325 | 0.324 | 0.325 | 2.91 |
| 37) | | 2-Methylnaphth... | | 0.688 | 0.689 | 0.719 | 0.669 | 0.659 | 0.666 | 0.652 | 0.677 | 3.42 |
| 38) | | 1-Methylnaphth... | | 0.680 | 0.657 | 0.691 | 0.656 | 0.637 | 0.640 | 0.631 | 0.656 | 3.40 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.582 | 0.588 | 0.600 | 0.584 | 0.560 | 0.574 | 0.562 | 0.579 | 2.50 |
| 41) | P | Hexachlorocycl... | | 0.138 | 0.180 | 0.204 | 0.205 | 0.214 | 0.214 | 0.192 | 15.36 |
| 42) | S | 2,4,6-Tribromo... | 0.201 | 0.200 | 0.210 | 0.200 | 0.199 | 0.201 | 0.196 | 0.201 | 2.08 |
| 43) | C | 2,4,6-Trichlor... | 0.364 | 0.365 | 0.389 | 0.377 | 0.373 | 0.378 | 0.372 | 0.374 | 2.28 |
| 44) | | 2,4,5-Trichlor... | 0.385 | 0.407 | 0.430 | 0.410 | 0.394 | 0.409 | 0.401 | 0.405 | 3.51 |
| 45) | S | 2-Fluorobiphenyl | 1.373 | 1.360 | 1.385 | 1.269 | 1.241 | 1.259 | 1.201 | 1.298 | 5.62 |
| 46) | | 1,1'-Biphenyl | 1.582 | 1.564 | 1.632 | 1.545 | 1.517 | 1.537 | 1.478 | 1.551 | 3.16 |
| 47) | | 2-Chloronaphth... | 1.167 | 1.161 | 1.211 | 1.135 | 1.114 | 1.136 | 1.103 | 1.147 | 3.18 |
| 48) | | 2-Nitroaniline | 0.371 | 0.371 | 0.394 | 0.390 | 0.382 | 0.401 | 0.385 | 0.385 | 2.92 |
| 49) | | Acenaphthylene | 1.739 | 1.736 | 1.791 | 1.696 | 1.660 | 1.689 | 1.626 | 1.705 | 3.21 |
| 50) | | Dimethylphthalate | 1.382 | 1.359 | 1.408 | 1.345 | 1.324 | 1.341 | 1.345 | 1.358 | 2.09 |
| 51) | | 2,6-Dinitrotol... | 0.289 | 0.290 | 0.314 | 0.301 | 0.295 | 0.299 | 0.290 | 0.297 | 3.06 |
| 52) | C | Acenaphthene | 1.186 | 1.164 | 1.188 | 1.152 | 1.108 | 1.127 | 1.101 | 1.147 | 3.10 |
| 53) | | 3-Nitroaniline | 0.312 | 0.313 | 0.335 | 0.319 | 0.320 | 0.321 | 0.316 | 0.319 | 2.35 |
| 54) | P | 2,4-Dinitrophenol | | 0.133 | 0.167 | 0.177 | 0.185 | 0.198 | 0.198 | 0.176 | 13.83 |
| 55) | | Dibenzofuran | 1.768 | 1.722 | 1.774 | 1.673 | 1.633 | 1.634 | 1.576 | 1.683 | 4.44 |
| 56) | P | 4-Nitrophenol | 0.190 | 0.216 | 0.247 | 0.249 | 0.249 | 0.257 | 0.251 | 0.237 | 10.43 |
| 57) | | 2,4-Dinitrotol... | 0.383 | 0.403 | 0.414 | 0.398 | 0.390 | 0.396 | 0.383 | 0.395 | 2.83 |
| 58) | | Fluorene | 1.359 | 1.361 | 1.377 | 1.290 | 1.239 | 1.263 | 1.221 | 1.301 | 4.90 |
| 59) | | 2,3,4,6-Tetrac... | 0.332 | 0.361 | 0.359 | 0.348 | 0.348 | 0.355 | 0.340 | 0.349 | 2.95 |
| 60) | | Diethylphthalate | 1.400 | 1.346 | 1.398 | 1.330 | 1.300 | 1.308 | 1.269 | 1.336 | 3.71 |
| 61) | | 4-Chlorophenyl... | 0.661 | 0.643 | 0.659 | 0.622 | 0.602 | 0.611 | 0.585 | 0.626 | 4.66 |
| 62) | | 4-Nitroaniline | 0.315 | 0.319 | 0.333 | 0.335 | 0.319 | 0.327 | 0.324 | 0.324 | 2.28 |
| 63) | | Azobenzene | 1.348 | 1.329 | 1.385 | 1.326 | 1.295 | 1.320 | 1.294 | 1.328 | 2.38 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.116 | 0.140 | 0.142 | 0.142 | 0.146 | 0.148 | 0.139 | 8.48 |
| 66) | c | n-Nitrosodiphe... | 0.650 | 0.653 | 0.674 | 0.627 | 0.625 | 0.625 | 0.627 | 0.640 | 2.97 |
| 67) | | 4-Bromophenyl-... | 0.228 | 0.220 | 0.234 | 0.221 | 0.220 | 0.221 | 0.221 | 0.224 | 2.46 |
| 68) | | Hexachlorobenzene | 0.229 | 0.234 | 0.241 | 0.227 | 0.224 | 0.228 | 0.228 | 0.230 | 2.46 |
| 69) | | Atrazine | 0.200 | 0.203 | 0.214 | 0.185 | 0.185 | 0.182 | 0.176 | 0.192 | 7.12 |
| 70) | C | Pentachlorophenol | 0.116 | 0.131 | 0.151 | 0.154 | 0.158 | 0.159 | 0.160 | 0.147 | 11.68 |
| 71) | | Phenanthrene | 1.141 | 1.132 | 1.161 | 1.084 | 1.071 | 1.069 | 1.049 | 1.101 | 3.91 |
| 72) | | Anthracene | 1.168 | 1.126 | 1.158 | 1.082 | 1.084 | 1.071 | 1.057 | 1.107 | 3.99 |
| 73) | | Carbazole | 1.022 | 1.026 | 1.076 | 0.986 | 0.966 | 0.961 | 0.933 | 0.996 | 4.87 |
| 74) | | Di-n-butylphth... | 1.165 | 1.156 | 1.223 | 1.141 | 1.132 | 1.126 | 1.105 | 1.150 | 3.29 |
| 75) | C | Fluoranthene | 1.251 | 1.239 | 1.243 | 1.151 | 1.129 | 1.091 | 1.065 | 1.167 | 6.63 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.474 | 0.487 | 0.334 | 0.528 | 0.432 | 0.351 | 0.481 | 0.441 | 16.58 |
| 78) | | Pyrene | 1.528 | 1.557 | 1.717 | 1.745 | 1.774 | 1.807 | 1.789 | 1.703 | 6.67 |
| 79) | S | Terphenyl-d14 | 1.129 | 1.104 | 1.211 | 1.198 | 1.209 | 1.234 | 1.208 | 1.185 | 4.07 |
| 80) | | Butylbenzylpht... | 0.525 | 0.540 | 0.605 | 0.609 | 0.603 | 0.623 | 0.624 | 0.590 | 6.83 |
| 81) | | Benzo(a)anthra... | 1.381 | 1.332 | 1.350 | 1.345 | 1.309 | 1.309 | 1.279 | 1.329 | 2.51 |
| 82) | | 3,3'-Dichlorob... | 0.397 | 0.411 | 0.407 | 0.377 | 0.363 | 0.353 | 0.358 | 0.381 | 6.31 |
| 83) | | Chrysene | 1.187 | 1.223 | 1.314 | 1.201 | 1.215 | 1.224 | 1.229 | 1.228 | 3.34 |
| 84) | | Bis(2-ethylhex... | 0.593 | 0.610 | 0.685 | 0.689 | 0.680 | 0.697 | 0.702 | 0.665 | 6.68 |
| 85) | c | Di-n-octyl pht... | 0.802 | 0.814 | 0.910 | 0.965 | 1.010 | 1.051 | 1.090 | 0.949 | 11.82 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

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|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 0.987 | 1.029 | 1.186 | 1.288 | 1.341 | 1.410 | 1.408 | 1.236 | 14.06 |
| 88) | | Benzo(b)fluora... | 1.286 | 1.407 | 1.398 | 1.336 | 1.350 | 1.356 | 1.268 | 1.343 | 3.88 |
| 89) | | Benzo(k)fluora... | 1.113 | 1.216 | 1.247 | 1.142 | 1.074 | 1.098 | 1.138 | 1.147 | 5.49 |
| 90) | C | Benzo(a)pyrene | 1.085 | 1.074 | 1.115 | 1.080 | 1.069 | 1.094 | 1.089 | 1.087 | 1.41 |
| 91) | | Dibenzo(a,h)an... | 0.796 | 0.828 | 0.970 | 1.051 | 1.092 | 1.138 | 1.134 | 1.001 | 14.13 |
| 92) | | Benzo(g,h,i)pe... | 0.805 | 0.864 | 1.001 | 1.100 | 1.144 | 1.203 | 1.218 | 1.048 | 15.60 |

(#) = 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: SPEC01

Lab Code: CHEM Case No.: Q1322 SAS No.: Q1322 SDG No.: Q1322

Instrument ID: BNA_F Calibration Date/Time: 02/10/2025 11:34

Lab File ID: BF141531.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.276 | 1.279 | | 0.2 | |
| Phenol-d6 | 1.612 | 1.566 | | -2.9 | |
| Nitrobenzene-d5 | 0.383 | 0.378 | | -1.3 | |
| 2-Fluorobiphenyl | 1.298 | 1.277 | | -1.6 | |
| 2,4,6-Tribromophenol | 0.201 | 0.194 | | -3.5 | |
| Terphenyl-d14 | 1.185 | 1.253 | | 5.7 | |
| Bis(2-ethylhexyl)phthalate | 0.665 | 0.755 | | 13.5 | |

All other compounds must meet a minimum RRF of 0.010.