CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG No.: BN012224

Instrument ID: BNA_N Calibration Date/Time: 1/22/2024 1: 16:00

Lab File ID: BN029333.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC0.4 Init. Calib. Time(s):

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

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.662 | 0.611 | | -7.704 | 20.0 |
| Fluoranthene-d10 | 1.185 | 1.070 | | -9.705 | 20.0 |
| n-Nitrosodimethylamine | 0.527 | 0.477 | | -9.488 | 20.0 |
| 2-Fluorophenol | 1.062 | 0.982 | | -7.533 | 20.0 |
| Phenol-d6 | 1.419 | 1.319 | | -7.047 | 20.0 |
| bis(2-Chloroethyl)ether | 1.310 | 1.240 | | -5.344 | 20.0 |
| Nitrobenzene-d5 | 0.424 | 0.386 | | -8.962 | 20.0 |
| Naphthalene | 1.286 | 1.182 | | -8.087 | 20.0 |
| Hexachlorobutadiene | 0.271 | 0.258 | | -4.797 | 20.0 |
| 2-Methylnaphthalene | 0.836 | 0.766 | | -8.373 | 20.0 |
| 2-Fluorobiphenyl | 1.926 | 1.781 | | -7.529 | 20.0 |
| Acenaphthylene | 2.133 | 1.910 | | -10.455 | 20.0 |
| Acenaphthene | 1.434 | 1.295 | | -9.693 | 20.0 |
| Fluorene | 1.945 | 1.776 | | -8.689 | 20.0 |
| 4,6-Dinitro-2-methylphenol | 0.074 | 0.065 | | -12.162 | 20.0 |
| 2,4,6-Tribromophenol | 0.208 | 0.180 | | -13.462 | 20.0 |
| 4-Bromophenyl-phenylether | 0.292 | 0.268 | | -8.219 | 20.0 |
| Hexachlorobenzene | 0.360 | 0.336 | | -6.667 | 20.0 |
| Atrazine | 0.214 | 0.188 | | -12.15 | 20.0 |
| Pentachlorophenol | 0.121 | 0.103 | | -14.876 | 20.0 |
| Phenanthrene | 1.372 | 1.254 | | -8.601 | 20.0 |
| Anthracene | 1.213 | 1.065 | | -12.201 | 20.0 |
| Fluoranthene | 1.643 | 1.482 | | -9.799 | 20.0 |
| Pyrene | 1.824 | 1.700 | | -6.798 | 20.0 |
| Terphenyl-d14 | 1.025 | 0.946 | | -7.707 | 20.0 |
| Benzo(a)anthracene | 1.668 | 1.482 | | -11.151 | 20.0 |
| Chrysene | 1.719 | 1.595 | | -7.213 | 20.0 |
| Bis(2-ethylhexyl)phthalate | 0.919 | 0.763 | | -16.975 | 20.0 |
| Benzo(b)fluoranthene | 1.703 | 1.572 | | -7.692 | 20.0 |
| Benzo(k)fluoranthene | 1.672 | 1.537 | | -8.074 | 20.0 |
| Benzo(a)pyrene | 1.340 | 1.179 | | -12.015 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.709 | 1.504 | | -11.995 | 20.0 |
| Dibenzo(a,h)anthracene | 1.382 | 1.225 | | -11.36 | 20.0 |
| Benzo(g,h,i)perylene | 1.482 | 1.328 | | -10.391 | 20.0 |
| 1,4-Dioxane | 0.520 | 0.494 | | -5.0 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | | | | Date Collected: | |
| Project: | | | | Date Received: | |
| Client Sample ID: | SSTDICV0.4 | | | SDG No.: | BN012224 |
| Lab Sample ID: | SSTDICV0.4 | | | Matrix: | Water |
| Analytical Method: | 8270-Modified | | | % Moisture: | 100 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000000 uL |
| Soil Aliquot Vol: | | | uL | Test: | |
| Extraction Type : | | | Decanted : | Level : | LOW |
| Injection Volume : | | | GPC Factor : | GPC Cleanup : | PH : |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN029338.D | 1 | | 1/22/2024 12:00:00 AM | |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 62-75-9 | n-Nitrosodimethylamine | 360 | | 29 | 200 | 200 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 380 | | 21 | 100 | 100 | ug/L |
| 91-20-3 | Naphthalene | 370 | | 19 | 100 | 100 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 380 | | 19 | 100 | 100 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 370 | | 21 | 100 | 100 | ug/L |
| 208-96-8 | Acenaphthylene | 360 | | 18 | 100 | 100 | ug/L |
| 83-32-9 | Acenaphthene | 370 | | 16 | 100 | 100 | ug/L |
| Total PAH | Total PAH | 5660 | | 400 | 100 | 1600 | ug/L |
| 86-73-7 | Fluorene | 360 | | 17 | 100 | 100 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 320 | | 73 | 200 | 200 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 340 | | 20 | 100 | 100 | ug/L |
| 118-74-1 | Hexachlorobenzene | 370 | | 24 | 100 | 100 | ug/L |
| 1912-24-9 | Atrazine | 340 | | 18 | 100 | 100 | ug/L |
| 87-86-5 | Pentachlorophenol | 310 | | 59 | 200 | 200 | ug/L |
| 85-01-8 | Phenanthrene | 360 | | 19 | 100 | 100 | ug/L |
| 120-12-7 | Anthracene | 350 | | 22 | 100 | 100 | ug/L |
| 206-44-0 | Fluoranthene | 350 | | 19 | 100 | 100 | ug/L |
| 129-00-0 | Pyrene | 360 | | 26 | 100 | 100 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 360 | | 24 | 100 | 100 | ug/L |
| 218-01-9 | Chrysene | 370 | | 20 | 100 | 100 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 320 | | 81 | 200 | 200 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 340 | | 24 | 100 | 100 | ug/L |
| 207-08-9 | Benzo(k)fluoranthene | 350 | | 27 | 100 | 100 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 340 | | 36 | 100 | 100 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 340 | | 40 | 100 | 100 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 340 | | 42 | 100 | 100 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 340 | | 31 | 100 | 100 | ug/L |
| 123-91-1 | 1,4-Dioxane | 400 | | 61 | 200 | 200 | ug/L |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 369 | * | 30-150 | | 92250 | SPK: -0.4 |
| 93951-69-0 | Fluoranthene-d10 | 353 | * | 30-150 | | 88250 | SPK: -0.4 |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | | | | Date Collected: | |
| Project: | | | | Date Received: | |
| Client Sample ID: | SSTDICV0.4 | | | SDG No.: | BN012224 |
| Lab Sample ID: | SSTDICV0.4 | | | Matrix: | Water |
| Analytical Method: | 8270-Modified | | | % Moisture: | 100 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000000 uL |
| Soil Aliquot Vol: | | | uL | Test: | |
| Extraction Type : | | | Decanted : | Level : | LOW |
| Injection Volume : | | | GPC Factor : | GPC Cleanup : | PH : |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN029338.D | 1 | | 1/22/2024 12:00:00 AM | |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 370 | * | 10-92 | | 92500 | SPK: -0.4 |
| 13127-88-3 | Phenol-d6 | 368 | * | 10-100 | | 92000 | SPK: -0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 353 | * | 11-175 | | 88250 | SPK: -0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 374 | * | 10-175 | | 93500 | SPK: -0.4 |
| 118-79-6 | 2,4,6-Tribromophenol | 299 | * | 24-148 | | 74750 | SPK: -0.4 |
| 1718-51-0 | Terphenyl-d14 | 363 | * | 54-171 | | 90750 | SPK: -0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 4148 | 7.919 | | | | |
| 1146-65-2 | Naphthalene-d8 | 11226 | 10.712 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 6051 | 14.554 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13991 | 17.305 | | | | |
| 1719-03-5 | Chrysene-d12 | 12478 | 21.51 | | | | |
| 1520-96-3 | Perylene-d12 | 13310 | 23.905 | | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | | | | Date Collected: | 1/22/2024 12:00:00 AM |
| Project: | | | | Date Received: | 1/22/2024 12:00:00 AM |
| Client Sample ID: | PB158557BL | | | SDG No.: | BN012224 |
| Lab Sample ID: | PB158557BL | | | Matrix: | Solid |
| Analytical Method: | 8270-Modified | | | % Moisture: | 0 |
| Sample Wt/Vol: | 30.03 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | |
| Extraction Type : | | | Decanted : | Level : | LOW |
| Injection Volume : | | | GPC Factor : | GPC Cleanup : | PH : |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN029339.D | 1 | 1/22/2024 12:00:00 AM | 1/22/2024 12:00:00 AM | PB158557 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 62-75-9 | n-Nitrosodimethylamine | 1.7 | U | 1.7 | 6.6 | 6.6 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 0.79 | U | 0.79 | 3.3 | 3.3 | ug/Kg |
| 91-20-3 | Naphthalene | 0.72 | U | 0.72 | 3.3 | 3.3 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 0.43 | U | 0.43 | 3.3 | 3.3 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 0.8 | U | 0.8 | 3.3 | 3.3 | ug/Kg |
| 208-96-8 | Acenaphthylene | 0.61 | U | 0.61 | 3.3 | 3.3 | ug/Kg |
| 83-32-9 | Acenaphthene | 0.53 | U | 0.53 | 3.3 | 3.3 | ug/Kg |
| Total PAH | Total PAH | 12.81 | U | 12.81 | 3.3 | 52.8 | ug/Kg |
| 86-73-7 | Fluorene | 0.53 | U | 0.53 | 3.3 | 3.3 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1.1 | U | 1.1 | 6.6 | 6.6 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.74 | U | 0.74 | 3.3 | 3.3 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 0.85 | U | 0.85 | 3.3 | 3.3 | ug/Kg |
| 1912-24-9 | Atrazine | 0.49 | U | 0.49 | 3.3 | 3.3 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 1.6 | U | 1.6 | 6.6 | 6.6 | ug/Kg |
| 85-01-8 | Phenanthrene | 0.63 | U | 0.63 | 3.3 | 3.3 | ug/Kg |
| 120-12-7 | Anthracene | 0.69 | U | 0.69 | 3.3 | 3.3 | ug/Kg |
| 206-44-0 | Fluoranthene | 0.56 | U | 0.56 | 3.3 | 3.3 | ug/Kg |
| 129-00-0 | Pyrene | 1.2 | U | 1.2 | 3.3 | 3.3 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 0.76 | U | 0.76 | 3.3 | 3.3 | ug/Kg |
| 218-01-9 | Chrysene | 0.72 | U | 0.72 | 3.3 | 3.3 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.5 | U | 1.5 | 6.6 | 6.6 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 0.88 | U | 0.88 | 3.3 | 3.3 | ug/Kg |
| 207-08-9 | Benzo(k)fluoranthene | 0.73 | U | 0.73 | 3.3 | 3.3 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 0.75 | U | 0.75 | 3.3 | 3.3 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.4 | U | 1.4 | 3.3 | 3.3 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.1 | U | 1.1 | 3.3 | 3.3 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | U | 1 | 3.3 | 3.3 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1.7 | U | 1.7 | 6.6 | 6.6 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.276 | | 21-128 | | 69 | SPK: -0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.273 | | 13-127 | | 68 | SPK: -0.4 |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | | | | Date Collected: | 1/22/2024 12:00:00 AM |
| Project: | | | | Date Received: | 1/22/2024 12:00:00 AM |
| Client Sample ID: | PB158557BL | | | SDG No.: | BN012224 |
| Lab Sample ID: | PB158557BL | | | Matrix: | Solid |
| Analytical Method: | 8270-Modified | | | % Moisture: | 0 |
| Sample Wt/Vol: | 30.03 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | |
| Extraction Type : | | | Decanted : | Level : | LOW |
| Injection Volume : | | | GPC Factor : | GPC Cleanup : | PH : |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BN029339.D | 1 | 1/22/2024 12:00:00 AM | 1/22/2024 12:00:00 AM | PB158557 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 0.351 | | 28-122 | | 88 | SPK: -0.4 |
| 13127-88-3 | Phenol-d6 | 0.335 | | 12-126 | | 84 | SPK: -0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.276 | | 14-112 | | 69 | SPK: -0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.314 | | 22-114 | | 79 | SPK: -0.4 |
| 118-79-6 | 2,4,6-Tribromophenol | 0.207 | | 10-137 | | 52 | SPK: -0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.302 | | 21-130 | | 75 | SPK: -0.4 |
| **INTERNAL STANDARDS** | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 4528 | 7.919 | | | | |
| 1146-65-2 | Naphthalene-d8 | 11841 | 10.712 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 5736 | 14.554 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 13831 | 17.305 | | | | |
| 1719-03-5 | Chrysene-d12 | 11514 | 21.51 | | | | |
| 1520-96-3 | Perylene-d12 | 11511 | 23.908 | | | | |

CHEMTECH

# Hit Summary Sheet
**SW-846**

**SDG No.:** BN012224

**Client:**

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **SSTDICV0.4** | | | | | | | |
| SSTDICV0.4 | SSTDICV0.4 | Water | 1,4-Dioxane | 400.000 | | 61 | 200 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | 2-Methylnaphthalene | 370.000 | | 21 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | 4,6-Dinitro-2-methylphenol | 320.000 | | 73 | 200 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | 4-Bromophenyl-phenylether | 340.000 | | 20 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Acenaphthene | 370.000 | | 16 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Acenaphthylene | 360.000 | | 18 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Anthracene | 350.000 | | 22 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Atrazine | 340.000 | | 18 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Benzo(a)anthracene | 360.000 | | 24 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Benzo(a)pyrene | 340.000 | | 36 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Benzo(b)fluoranthene | 340.000 | | 24 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Benzo(g,h,i)perylene | 340.000 | | 31 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Benzo(k)fluoranthene | 350.000 | | 27 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | bis(2-Chloroethyl)ether | 380.000 | | 21 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Bis(2-ethylhexyl)phthalate | 320.000 | | 81 | 200 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Chrysene | 370.000 | | 20 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Dibenzo(a,h)anthracene | 340.000 | | 42 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Fluoranthene | 350.000 | | 19 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Fluorene | 360.000 | | 17 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Hexachlorobenzene | 370.000 | | 24 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Hexachlorobutadiene | 380.000 | | 19 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Indeno(1,2,3-cd)pyrene | 340.000 | | 40 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | n-Nitrosodimethylamine | 360.000 | | 29 | 200 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Naphthalene | 370.000 | | 19 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Pentachlorophenol | 310.000 | | 59 | 200 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Phenanthrene | 360.000 | | 19 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Pyrene | 360.000 | | 26 | 100 | ug/L |
| SSTDICV0.4 | SSTDICV0.4 | Water | Total PAH | 5,660.000 | | 400 | 1600 | ug/L |
| | | | **Total Svoc :** | **15,210.00** | | | | |
| | | | **Total Concentration:** | **15,210.00** | | | | |

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG No.: BN012224

Instrument ID: Calibration Date(s): 1/22/2024

Calibration Time(s): 14:48

LAB FILE ID: RRF0.1 = BN029331.D RRF0.2 = BN029332.D RRF0.4 = BN029333.D
RRF0.8 = BN029334.D RRF1.6 = BN029335.D RRF3.2 = BN029336.D

| COMPOUND | RRF0.1 | RRF0.2 | RRF0.4 | RRF0.8 | RRF1.6 | RRF3.2 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene-d10 | 0.633 | 0.631 | 0.611 | 0.684 | 0.715 | 0.703 | 0.662 | 5.9 |
| Fluoranthene-d10 | 1.110 | 1.102 | 1.070 | 1.192 | 1.286 | 1.310 | 1.185 | 8.0 |
| n-Nitrosodimethylamine | 0.452 | 0.464 | 0.477 | 0.555 | 0.597 | 0.596 | 0.527 | 11.8 |
| 2-Fluorophenol | 1.139 | 1.052 | 0.982 | 1.076 | 1.101 | 1.075 | 1.062 | 5.1 |
| Phenol-d6 | 1.549 | 1.394 | 1.319 | 1.407 | 1.466 | 1.437 | 1.419 | 5.2 |
| bis(2-Chloroethyl)ether | 1.353 | 1.290 | 1.240 | 1.342 | 1.376 | 1.340 | 1.310 | 4.4 |
| Nitrobenzene-d5 | 0.479 | 0.432 | 0.386 | 0.425 | 0.431 | 0.419 | 0.424 | 7.1 |
| Naphthalene | 1.341 | 1.284 | 1.182 | 1.327 | 1.344 | 1.310 | 1.286 | 5.1 |
| Hexachlorobutadiene | 0.272 | 0.276 | 0.258 | 0.287 | 0.288 | 0.270 | 0.271 | 5.8 |
| 2-Methylnaphthalene | 0.844 | 0.812 | 0.766 | 0.860 | 0.889 | 0.872 | 0.836 | 5.1 |
| 2-Fluorobiphenyl | 2.071 | 1.968 | 1.781 | 1.977 | 2.019 | 1.905 | 1.926 | 6.1 |
| Acenaphthylene | 2.043 | 1.985 | 1.910 | 2.163 | 2.316 | 2.305 | 2.133 | 7.4 |
| Acenaphthene | 1.501 | 1.405 | 1.295 | 1.454 | 1.523 | 1.480 | 1.434 | 5.6 |
| Fluorene | 2.017 | 1.916 | 1.776 | 1.971 | 2.069 | 2.004 | 1.945 | 5.2 |
| 4,6-Dinitro-2-methylphenol | 0.067 | 0.062 | 0.065 | 0.073 | 0.080 | 0.087 | 0.074 | 12.9 |
| 2,4,6-Tribromophenol | 0.243 | 0.206 | 0.180 | 0.194 | 0.210 | 0.218 | 0.208 | 9.5 |
| 4-Bromophenyl-phenylether | 0.305 | 0.294 | 0.268 | 0.293 | 0.301 | 0.302 | 0.292 | 4.5 |
| Hexachlorobenzene | 0.367 | 0.365 | 0.336 | 0.370 | 0.375 | 0.366 | 0.360 | 4.0 |
| Atrazine | 0.196 | 0.198 | 0.188 | 0.212 | 0.234 | 0.239 | 0.214 | 9.5 |
| Pentachlorophenol | 0.094 | 0.098 | 0.103 | 0.120 | 0.135 | 0.148 | 0.121 | 18.9 |
| Phenanthrene | 1.431 | 1.368 | 1.254 | 1.368 | 1.418 | 1.423 | 1.372 | 4.5 |
| Anthracene | 1.191 | 1.140 | 1.065 | 1.194 | 1.291 | 1.338 | 1.213 | 7.8 |
| Fluoranthene | 1.582 | 1.530 | 1.482 | 1.654 | 1.786 | 1.805 | 1.643 | 7.4 |
| Pyrene | 1.973 | 1.846 | 1.700 | 1.817 | 1.890 | 1.815 | 1.824 | 5.1 |
| Terphenyl-d14 | 1.147 | 1.045 | 0.946 | 1.028 | 1.054 | 1.009 | 1.025 | 6.7 |
| Benzo(a)anthracene | 1.646 | 1.580 | 1.482 | 1.667 | 1.824 | 1.797 | 1.668 | 7.1 |
| Chrysene | 1.753 | 1.691 | 1.595 | 1.757 | 1.852 | 1.758 | 1.719 | 5.1 |
| Bis(2-ethylhexyl)phthalate | 1.280 | 0.866 | 0.763 | 0.803 | 0.864 | 0.949 | 0.919 | 18.6 |
| Benzo(b)fluoranthene | 1.732 | 1.644 | 1.572 | 1.752 | 1.794 | 1.736 | 1.703 | 4.4 |
| Benzo(k)fluoranthene | 1.612 | 1.568 | 1.537 | 1.765 | 1.787 | 1.759 | 1.672 | 6.1 |
| Benzo(a)pyrene | 1.249 | 1.218 | 1.179 | 1.363 | 1.460 | 1.468 | 1.340 | 9.2 |
| Indeno(1,2,3-cd)pyrene | 1.504 | 1.504 | 1.504 | 1.724 | 1.937 | 1.915 | 1.709 | 11.9 |
| Dibenzo(a,h)anthracene | 1.191 | 1.198 | 1.225 | 1.413 | 1.583 | 1.551 | 1.382 | 12.6 |
| Benzo(g,h,i)perylene | 1.377 | 1.348 | 1.328 | 1.486 | 1.652 | 1.607 | 1.482 | 9.0 |
| 1,4-Dioxane | 0.553 | 0.499 | 0.494 | 0.531 | 0.552 | 0.523 | 0.520 | 5.3 |

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG NO.: BN012224

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 22 2024 12:00AM

Lab File ID: BN029333.D Time Analyzed: 19:36

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3548 | 7.919 | 9670 | 10.71 | 5316 | 14.55 |
| | UPPER LIMIT | 7096 | 8.419 | 19340 | 11.211 | 10632 | 15.053 |
| | LOWER LIMIT | 1774 | 7.419 | 4835 | 10.211 | 2658 | 14.053 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SSTDICV0.4 | 4148 | 7.92 | 11226 | 10.71 | 6051 | 14.55 |
| 02 | PB158557BL | 4528 | 7.92 | 11841 | 10.71 | 5736 | 14.55 |

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.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG NO.: BN012224

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 22 2024 12:00AM

Lab File ID: BN029333.D Time Analyzed: 19:36

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
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| | LOWER LIMIT | 1774 | 7.419 | 4835 | 10.211 | 2658 | 14.053 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SSTDICV0.4 | 4148 | 7.92 | 11226 | 10.71 | 6051 | 14.55 |
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
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AREA UPPER LIMIT = +100% of internal standard area
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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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG NO.: BN012224

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 22 2024 12:00AM

Lab File ID: BN029333.D Time Analyzed: 19:36

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 12265 | 17.305 | 10934 | 21.51 | 10903 | 23.905 |
| | UPPER LIMIT | 24530 | 17.805 | 21868 | 22.01 | 21806 | 24.405 |
| | LOWER LIMIT | 6132.5 | 16.805 | 5467 | 21.01 | 5451.5 | 23.405 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SSTDICV0.4 | 13991 | 17.31 | 12478 | 21.51 | 13310 | 23.91 |
| 02 | PB158557BL | 13831 | 17.31 | 11514 | 21.51 | 11511 | 23.91 |

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG NO.: BN012224

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 22 2024 12:00AM

Lab File ID: BN029333.D Time Analyzed: 19:36

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 12265 | 17.305 | 10934 | 21.51 | 10903 | 23.905 |
| | UPPER LIMIT | 24530 | 17.805 | 21868 | 22.01 | 21806 | 24.405 |
| | LOWER LIMIT | 6132.5 | 16.805 | 5467 | 21.01 | 5451.5 | 23.405 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | SSTDICV0.4 | 13991 | 17.31 | 12478 | 21.51 | 13310 | 23.91 |
| 02 | PB158557BL | 13831 | 17.31 | 11514 | 21.51 | 11511 | 23.91 |

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.

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SSTDICV0.4

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG NO.: BN012224

Lab File ID: BN029338.D Lab Sample ID: SSTDICV0.4

Instrument ID: BNA_N Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 01/22/2024

Level: (low/med) LOW Time Analyzed: 19:36

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| SSTDICV0.4 | SSTDICV0.4 | BN029338.D | 01/22/2024 |

COMMENTS:

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB158557BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN012224 SAS No.: BN012224 SDG NO.: BN012224

Lab File ID: BN029339.D Lab Sample ID: PB158557BL

Instrument ID: BNA_N Date Extracted: 01/22/2024

Matrix: (soil/water) Solid Date Analyzed: 01/22/2024

Level: (low/med) LOW Time Analyzed: 20:12

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|

COMMENTS:

CHEMTECH

## Surrogate Summary

**SW-846**

**SDG No.:** BN012224

**Client:**

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Datafile | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|---|
| SSTDICV0.4 | SSTDICV0.4 | BN029338.D | 2-Methylnaphthalene-d10 | 0.4 | 369.00 | 92250 | * | 30 | 150 |
| | | | Fluoranthene-d10 | 0.4 | 353.00 | 88250 | * | 30 | 150 |
| | | | 2-Fluorophenol | 0.4 | 370.00 | 92500 | * | 10 | 92 |
| | | | Phenol-d6 | 0.4 | 368.00 | 92000 | * | 10 | 100 |
| | | | Nitrobenzene-d5 | 0.4 | 353.00 | 88250 | * | 11 | 175 |
| | | | 2-Fluorobiphenyl | 0.4 | 374.00 | 93500 | * | 10 | 175 |
| | | | 2,4,6-Tribromophenol | 0.4 | 299.00 | 74750 | * | 24 | 148 |
| | | | Terphenyl-d14 | 0.4 | 363.00 | 90750 | * | 54 | 171 |

CHEMTECH

## Surrogate Summary

**SW-846**

**SDG No.:** BN012224

**Client:**

**Analytical Method:** 8270-Modified

| Lab Sample ID | Client ID | Datafile | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|---|
| PB158557BL | PB158557BL | BN029339.D | 2-Methylnaphthalene-d10 | 0.4 | 0.28 | 69 | | 21 | 128 |
| | | | Fluoranthene-d10 | 0.4 | 0.27 | 68 | | 13 | 127 |
| | | | 2-Fluorophenol | 0.4 | 0.35 | 88 | | 28 | 122 |
| | | | Phenol-d6 | 0.4 | 0.34 | 84 | | 12 | 126 |
| | | | Nitrobenzene-d5 | 0.4 | 0.28 | 69 | | 14 | 112 |
| | | | 2-Fluorobiphenyl | 0.4 | 0.31 | 79 | | 22 | 114 |
| | | | 2,4,6-Tribromophenol | 0.4 | 0.21 | 52 | | 10 | 137 |
| | | | Terphenyl-d14 | 0.4 | 0.30 | 75 | | 21 | 130 |

CHEMTECH

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BN012224

Lab Code: CHEM SAS No.: BN012224 SDG NO.: BN012224

Lab File ID: BN029330.D DFTPP Injection Date: 01/22/2024

Instrument ID: BNA_N DFTPP Injection Time: 14:12

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 45.1 |
| 68 | Less than 2.0% of mass 69 | 0.9 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 52.5 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 55.8 |
| 197 | Less than 2.0% of mass 198 | 0.8 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 26.2 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 12.1 |
| 442 | Greater than 50% of mass 198 | 78.1 |
| 443 | 15.0 - 24.0% of mass 442 | 12.6 (16.1) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC0.1 | SSTDICC0.1 | BN029331.D | 01/22/2024 | 14:48 |
| SSTDICC0.2 | SSTDICC0.2 | BN029332.D | 01/22/2024 | 15:24 |
| SSTDICCC0.4 | SSTDICCC0.4 | BN029333.D | 01/22/2024 | 16:00 |
| SSTDICC0.8 | SSTDICC0.8 | BN029334.D | 01/22/2024 | 16:36 |
| SSTDICC1.6 | SSTDICC1.6 | BN029335.D | 01/22/2024 | 17:12 |
| SSTDICC3.2 | SSTDICC3.2 | BN029336.D | 01/22/2024 | 17:48 |
| SSTDICC5.0 | SSTDICC5.0 | BN029337.D | 01/22/2024 | 18:24 |
| SSTDICV0.4 | SSTDICV0.4 | BN029338.D | 01/22/2024 | 19:36 |
| PB158557BL | PB158557BL | BN029339.D | 01/22/2024 | 20:12 |