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

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4474 | **OrderDate:** | 10/21/2024 3:19:00 PM |
| **Client:** | Yannuzzi Group, Inc. | **Project:** | 86 Davidson Road, Piscataway, NJ |
| **Contact:** | Rafael Nunez | **Location:** | K61 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4474-01** | **TS-2** | **SOIL** | | | **10/18/24** | | | **10/21/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 10/22/24 | 10/24/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4474

**Client:** Yannuzzi Group, Inc.

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **TS-2** | | | | | | | | |
| P4474-01 | TS-2 | SOIL | (E)-3-Methyl-5-((1R,4aR,8aR)-5,5 | * | 190.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | .gamma.-Sitosterol | * | 1,500.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | 10,18-Bisnorabieta-5,7,9(10),11,1 | * | 520.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | 1-Docosene | * | 540.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | A-Neogammacer-22(29)-ene | * | 860.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Benzophenone | * | 270.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Butane, 2-methoxy-2-methyl- | * | 4,900.000 | JB | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | cis-7-Hexadecenoic acid | * | 200.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Cyclopentadecane | * | 760.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | D-Friedoolean-14-en-3-ol | * | 1,600.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | D-Friedoolean-14-en-3-one | * | 2,600.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Epilupeol; 20(29)-Lupen-3alpha-c | * | 590.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Heptadecane, 2,6,10,15-tetrameth | * | 410.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Hexacosane | * | 330.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | n-Hexadecanoic acid | * | 1,300.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Octadecanoic acid | * | 430.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Olean-12-en-3-ol, acetate, (3.beta | * | 780.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Olean-18-ene | * | 980.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | Supraene | * | 340.000 | J | 0 | 0 | ug/Kg |
| P4474-01 | TS-2 | SOIL | unknown16.163 | * | 600.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **19,700.00** | | | | |
| | | | **Total Concentration:** | | **19,700.00** | | | | |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/18/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TS-2 | SDG No.: | P4474 |
| Lab Sample ID: | P4474-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 48.2 |
| Sample Wt/Vol: | 30.08 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 |
|---|---|---|---|---|
| BF139984.D | 1 | 10/22/24 10:44 | 10/24/24 00:40 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 380 | U | 380 | 680 | ug/Kg |
| 108-95-2 | Phenol | 170 | U | 170 | 350 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 170 | U | 170 | 350 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 170 | U | 170 | 350 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 170 | U | 170 | 350 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 190 | U | 190 | 350 | ug/Kg |
| 98-86-2 | Acetophenone | 180 | U | 180 | 350 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 170 | U | 170 | 680 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 83.4 | U | 83.4 | 170 | ug/Kg |
| 67-72-1 | Hexachloroethane | 170 | U | 170 | 350 | ug/Kg |
| 98-95-3 | Nitrobenzene | 190 | U | 190 | 350 | ug/Kg |
| 78-59-1 | Isophorone | 180 | U | 180 | 350 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 200 | U | 200 | 350 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 190 | U | 190 | 350 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 180 | U | 180 | 350 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 160 | U | 160 | 350 | ug/Kg |
| 91-20-3 | Naphthalene | 170 | U | 170 | 350 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 170 | U | 170 | 350 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 170 | U | 170 | 350 | ug/Kg |
| 105-60-2 | Caprolactam | 180 | U | 180 | 680 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 160 | U | 160 | 350 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 170 | U | 170 | 350 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 320 | UQ | 320 | 680 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 150 | U | 150 | 350 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 150 | U | 150 | 350 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 180 | U | 180 | 350 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 170 | U | 170 | 350 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 200 | U | 200 | 350 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 170 | U | 170 | 350 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/18/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TS-2 | SDG No.: | P4474 |
| Lab Sample ID: | P4474-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 48.2 |
| Sample Wt/Vol: | 30.08 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 |
|---|---|---|---|---|
| BF139984.D | 1 | 10/22/24 10:44 | 10/24/24 00:40 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 180 | U | 180 | 350 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 170 | U | 170 | 350 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 180 | U | 180 | 350 | ug/Kg |
| 83-32-9 | Acenaphthene | 170 | U | 170 | 350 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 500 | U | 500 | 680 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 240 | U | 240 | 680 | ug/Kg |
| 132-64-9 | Dibenzofuran | 170 | U | 170 | 350 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 180 | U | 180 | 350 | ug/Kg |
| 84-66-2 | Diethylphthalate | 170 | U | 170 | 350 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 180 | U | 180 | 350 | ug/Kg |
| 86-73-7 | Fluorene | 180 | U | 180 | 350 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 220 | U | 220 | 350 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 240 | UQ | 240 | 680 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 170 | U | 170 | 350 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 160 | U | 160 | 350 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 180 | U | 180 | 350 | ug/Kg |
| 1912-24-9 | Atrazine | 190 | U | 190 | 350 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 160 | U | 160 | 680 | ug/Kg |
| 85-01-8 | Phenanthrene | 170 | U | 170 | 350 | ug/Kg |
| 120-12-7 | Anthracene | 170 | U | 170 | 350 | ug/Kg |
| 86-74-8 | Carbazole | 170 | U | 170 | 350 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 170 | U | 170 | 350 | ug/Kg |
| 206-44-0 | Fluoranthene | 170 | U | 170 | 350 | ug/Kg |
| 129-00-0 | Pyrene | 170 | U | 170 | 350 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 200 | U | 200 | 350 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 200 | U | 200 | 680 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 170 | U | 170 | 350 | ug/Kg |
| 218-01-9 | Chrysene | 160 | U | 160 | 350 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 190 | U | 190 | 350 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 230 | U | 230 | 680 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 170 | U | 170 | 350 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/18/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TS-2 | SDG No.: | P4474 |
| Lab Sample ID: | P4474-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 48.2 |
| Sample Wt/Vol: | 30.08 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 |
|---|---|---|---|---|
| BF139984.D | 1 | 10/22/24 10:44 | 10/24/24 00:40 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 170 | U | 170 | 350 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 190 | U | 190 | 350 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 160 | U | 160 | 350 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 170 | U | 170 | 350 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 170 | U | 170 | 350 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 180 | U | 180 | 350 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 230 | U | 230 | 350 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 150 | U | 150 | 350 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 84.9 | | 30 (18) - 130 (112) | 57% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 78.7 | | 30 (15) - 130 (107) | 52% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 65.4 | | 30 (18) - 130 (107) | 65% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 62.9 | | 30 (20) - 130 (109) | 63% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 82.6 | | 30 (10) - 130 (116) | 55% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 38.0 | | 30 (10) - 130 (105) | 38% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 131000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 464000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 219000 | 9.928 | | | |
| 1517-22-2 | Phenanthrene-d10 | 349000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 324000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 250000 | 15.527 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 4900 | JB | | 2.20 | ug/Kg |
| 000119-61-9 | Benzophenone | 270 | J | | 10.6 | ug/Kg |
| 002416-19-5 | cis-7-Hexadecenoic acid | 200 | J | | 11.9 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 1300 | J | | 11.9 | ug/Kg |
| 006566-19-4 | 10,18-Bisnorabieta-5,7,9(10),11,13 | 520 | J | | 12.7 | ug/Kg |
| 000057-11-4 | Octadecanoic acid | 430 | J | | 12.7 | ug/Kg |
| 020257-75-4 | (E)-3-Methyl-5-((1R,4aR,8aR)-5,5,8 | 190 | J | | 13.5 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/18/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TS-2 | SDG No.: | P4474 |
| Lab Sample ID: | P4474-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 48.2 |
| Sample Wt/Vol: | 30.08 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 |
|---|---|---|---|---|
| BF139984.D | 1 | 10/22/24 10:44 | 10/24/24 00:40 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000295-48-7 | Cyclopentadecane | 760 | J | | 13.9 | ug/Kg |
| 001599-67-3 | 1-Docosene | 540 | J | | 14.5 | ug/Kg |
| 007683-64-9 | Supraene | 340 | J | | 14.9 | ug/Kg |
| 054833-48-6 | Heptadecane, 2,6,10,15-tetramethyl | 410 | J | | 15.2 | ug/Kg |
| 000630-01-3 | Hexacosane | 330 | J | | 16.0 | ug/Kg |
| | unknown16.163 | 600 | J | | 16.2 | ug/Kg |
| 001615-91-4 | A-Neogammacer-22(29)-ene | 860 | J | | 17.1 | ug/Kg |
| 000432-11-1 | Olean-18-ene | 980 | J | | 17.4 | ug/Kg |
| 000083-47-6 | .gamma.-Sitosterol | 1500 | J | | 17.7 | ug/Kg |
| 000514-07-8 | D-Friedoolean-14-en-3-one | 2600 | J | | 17.7 | ug/Kg |
| 081654-73-1 | D-Friedoolean-14-en-3-ol | 1600 | J | | 18.0 | ug/Kg |
| 001616-93-9 | Olean-12-en-3-ol, acetate, (3.beta | 780 | J | | 18.1 | ug/Kg |
| 1000513-01-3 | Epilupeol; 20(29)-Lupen-3alpha-ol | 590 | J | | 18.5 | 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.:** P4474

**Client:** Yannuzzi Group, Inc.

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4467-01MS | TP-1MS | 2-Fluorophenol | 150 | 83.4 | 56 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 81.7 | 54 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 61.8 | 62 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 58.9 | 59 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 96.0 | 64 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 55.7 | 56 | | 30 (10) | 130 (105) |
| P4467-01MSD | TP-1MSD | 2-Fluorophenol | 150 | 94.9 | 63 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 92.7 | 62 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 70.6 | 71 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 68.2 | 68 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 110 | 74 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 64.9 | 65 | | 30 (10) | 130 (105) |
| P4474-01 | TS-2 | 2-Fluorophenol | 150 | 84.9 | 57 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 78.7 | 52 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 65.4 | 65 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 62.9 | 63 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 82.6 | 55 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 38.0 | 38 | | 30 (10) | 130 (105) |
| PB164312BL | PB164312BL | 2-Fluorophenol | 150 | 131 | 87 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 126 | 84 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 96.5 | 96 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 93.3 | 93 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 158 | 105 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 92.9 | 93 | | 30 (10) | 130 (105) |
| PB164312BS | PB164312BS | 2-Fluorophenol | 150 | 129 | 86 | | 30 (18) | 130 (112) |
| | | Phenol-d6 | 150 | 126 | 84 | | 30 (15) | 130 (107) |
| | | Nitrobenzene-d5 | 100 | 99.4 | 99 | | 30 (18) | 130 (107) |
| | | 2-Fluorobiphenyl | 100 | 93.9 | 94 | | 30 (20) | 130 (109) |
| | | 2,4,6-Tribromophenol | 150 | 157 | 104 | | 30 (10) | 130 (116) |
| | | Terphenyl-d14 | 100 | 105 | 105 | | 30 (10) | 130 (105) |

( ) = LABORATORY INHOUSE LIMIT

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

### SW-846

**SDG No.:** P4474

**Client:** Yannuzzi Group, Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4467-01MS** | | **Client Sample ID: TP-1MS** | | | | | | **DataFile: BF140004.D** | | | |
| Benzaldehyde | 1100 | 0 | 290 | ug/Kg | 26 | | | | 20 (10) | 160 (86) | |
| Phenol | 1100 | 0 | 960 | ug/Kg | 87 | | | | 20 (67) | 160 (126) | |
| bis(2-Chloroethyl)ether | 1100 | 0 | 950 | ug/Kg | 86 | | | | 70 (54) | 130 (125) | |
| 2-Chlorophenol | 1100 | 0 | 990 | ug/Kg | 90 | | | | 70 (79) | 130 (107) | |
| 2-Methylphenol | 1100 | 0 | 960 | ug/Kg | 87 | | | | 70 (66) | 130 (122) | |
| 2,2-oxybis(1-Chloropropane) | 1100 | 0 | 910 | ug/Kg | 83 | | | | 70 (65) | 130 (110) | |
| Acetophenone | 1100 | 0 | 950 | ug/Kg | 86 | | | | 70 (75) | 130 (111) | |
| 3+4-Methylphenols | 1100 | 0 | 920 | ug/Kg | 84 | | | | 20 (66) | 160 (104) | |
| N-Nitroso-di-n-propylamine | 1100 | 0 | 930 | ug/Kg | 85 | | | | 70 (59) | 130 (119) | |
| Hexachloroethane | 1100 | 0 | 940 | ug/Kg | 85 | | | | 20 (65) | 160 (117) | |
| Nitrobenzene | 1100 | 0 | 930 | ug/Kg | 85 | | | | 70 (70) | 130 (119) | |
| Isophorone | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (76) | 130 (122) | |
| 2-Nitrophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 (54) | 130 (145) | |
| 2,4-Dimethylphenol | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (44) | 130 (135) | |
| bis(2-Chloroethoxy)methane | 1100 | 0 | 950 | ug/Kg | 86 | | | | 70 (68) | 130 (112) | |
| 2,4-Dichlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (72) | 130 (118) | |
| Naphthalene | 1100 | 0 | 950 | ug/Kg | 86 | | | | 70 (72) | 130 (110) | |
| 4-Chloroaniline | 1100 | 0 | 350 | ug/Kg | 32 | * | | | 70 (10) | 130 (91) | |
| Hexachlorobutadiene | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (66) | 130 (114) | |
| Caprolactam | 1100 | 0 | 990 | ug/Kg | 90 | | | | 20 (51) | 160 (134) | |
| 4-Chloro-3-methylphenol | 1100 | 0 | 960 | ug/Kg | 87 | | | | 70 (57) | 130 (132) | |
| 2-Methylnaphthalene | 1100 | 0 | 970 | ug/Kg | 88 | | | | 70 (59) | 130 (123) | |
| Hexachlorocyclopentadiene | 2200 | 0 | 3500 | ug/Kg | 159 | | | | 20 (10) | 160 (175) | |
| 2,4,6-Trichlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (72) | 130 (117) | |
| 2,4,5-Trichlorophenol | 1100 | 0 | 990 | ug/Kg | 90 | | | | 70 (72) | 130 (117) | |
| 1,1-Biphenyl | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (75) | 130 (113) | |
| 2-Chloronaphthalene | 1100 | 0 | 960 | ug/Kg | 87 | | | | 70 (67) | 130 (118) | |
| 2-Nitroaniline | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (69) | 130 (127) | |
| Dimethylphthalate | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (70) | 130 (113) | |
| Acenaphthylene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (79) | 130 (118) | |
| 2,6-Dinitrotoluene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (70) | 130 (125) | |
| 3-Nitroaniline | 1100 | 0 | 660 | ug/Kg | 60 | * | | | 70 (30) | 130 (99) | |
| Acenaphthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (70) | 130 (121) | |
| 2,4-Dinitrophenol | 2200 | 0 | 2200 | ug/Kg | 100 | | | | 20 (10) | 160 (155) | |
| 4-Nitrophenol | 2200 | 0 | 2000 | ug/Kg | 91 | | | | 20 (45) | 160 (133) | |
| Dibenzofuran | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (72) | 130 (110) | |
| 2,4-Dinitrotoluene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (55) | 130 (128) | |
| Diethylphthalate | 1100 | 0 | 990 | ug/Kg | 90 | | | | 70 (70) | 130 (112) | |
| 4-Chlorophenyl-phenylether | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (71) | 130 (108) | |
| Fluorene | 1100 | 0 | 960 | ug/Kg | 87 | | | | 70 (68) | 130 (116) | |
| 4-Nitroaniline | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (55) | 130 (120) | |
| 4,6-Dinitro-2-methylphenol | 1100 | 0 | 1300 | ug/Kg | 118 | | | | 70 (10) | 130 (160) | |
| N-Nitrosodiphenylamine | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (73) | 130 (118) | |
| 4-Bromophenyl-phenylether | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (65) | 130 (121) | |
| Hexachlorobenzene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (67) | 130 (118) | |
| Atrazine | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 (79) | 130 (127) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4474

**Client:** Yannuzzi Group, Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 2200 | 0 | 1800 | ug/Kg | 82 | | | | 20 (47) | 160 (128) | |
| Phenanthrene | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (52) | 130 (128) | |
| Anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (62) | 130 (124) | |
| Carbazole | 1100 | 0 | 910 | ug/Kg | 83 | | | | 70 (59) | 130 (119) | |
| Di-n-butylphthalate | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (69) | 130 (118) | |
| Fluoranthene | 1100 | 0 | 860 | ug/Kg | 78 | | | | 70 (44) | 130 (125) | |
| Pyrene | 1100 | 0 | 910 | ug/Kg | 83 | | | | 70 (26) | 130 (142) | |
| Butylbenzylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 (64) | 130 (126) | |
| 3,3-Dichlorobenzidine | 1100 | 0 | 780 | ug/Kg | 71 | | | | 70 (33) | 130 (116) | |
| Benzo(a)anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (71) | 130 (114) | |
| Chrysene | 1100 | 0 | 980 | ug/Kg | 89 | | | | 70 (57) | 130 (121) | |
| bis(2-Ethylhexyl)phthalate | 1100 | 0 | 1300 | ug/Kg | 118 | | | | 70 (42) | 130 (169) | |
| Di-n-octyl phthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 (23) | 130 (175) | |
| Benzo(b)fluoranthene | 1100 | 0 | 880 | ug/Kg | 80 | | | | 70 (67) | 130 (121) | |
| Benzo(k)fluoranthene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (57) | 130 (134) | |
| Benzo(a)pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 (70) | 130 (142) | |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (40) | 130 (129) | |
| Dibenz(a,h)anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (43) | 130 (123) | |
| Benzo(g,h,i)perylene | 1100 | 0 | 870 | ug/Kg | 79 | | | | 70 (24) | 130 (125) | |
| 1,2,4,5-Tetrachlorobenzene | 1100 | 0 | 990 | ug/Kg | 90 | | | | 70 (69) | 130 (124) | |
| 1,4-Dioxane | 1100 | 0 | 840 | ug/Kg | 76 | | | | 20 (46) | 160 (112) | |
| 2,3,4,6-Tetrachlorophenol | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 (69) | 130 (112) | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** P4474

**Client:** Yannuzzi Group, Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4467-01MSD** | | **Client Sample ID: TP-1MSD** | | | | | | **DataFile: BF140005.D** | | | |
| Benzaldehyde | 1100 | 0 | 340 | ug/Kg | 31 | | 18 | | 20 (10) | 160 (86) | 30 (20) |
| Phenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 14 | | 20 (67) | 160 (126) | 30 (20) |
| bis(2-Chloroethyl)ether | 1100 | 0 | 1100 | ug/Kg | 100 | | 15 | | 70 (54) | 130 (125) | 30 (20) |
| 2-Chlorophenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 11 | | 70 (79) | 130 (107) | 30 (20) |
| 2-Methylphenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 14 | | 70 (66) | 130 (122) | 30 (20) |
| 2,2-oxybis(1-Chloropropane) | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (65) | 130 (110) | 30 (20) |
| Acetophenone | 1100 | 0 | 1100 | ug/Kg | 100 | | 15 | | 70 (75) | 130 (111) | 30 (20) |
| 3+4-Methylphenols | 1100 | 0 | 1100 | ug/Kg | 100 | | 17 | | 20 (66) | 160 (104) | 30 (20) |
| N-Nitroso-di-n-propylamine | 1100 | 0 | 1100 | ug/Kg | 100 | | 16 | | 70 (59) | 130 (119) | 30 (20) |
| Hexachloroethane | 1100 | 0 | 1100 | ug/Kg | 100 | | 16 | | 20 (65) | 160 (117) | 30 (20) |
| Nitrobenzene | 1100 | 0 | 1100 | ug/Kg | 100 | | 16 | | 70 (70) | 130 (119) | 30 (20) |
| Isophorone | 1100 | 0 | 1100 | ug/Kg | 100 | | 13 | | 70 (76) | 130 (122) | 30 (20) |
| 2-Nitrophenol | 1100 | 0 | 1400 | ug/Kg | 127 | | 15 | | 70 (54) | 130 (145) | 30 (20) |
| 2,4-Dimethylphenol | 1100 | 0 | 1300 | ug/Kg | 118 | | 17 | | 70 (44) | 130 (135) | 30 (20) |
| bis(2-Chloroethoxy)methane | 1100 | 0 | 1100 | ug/Kg | 100 | | 15 | | 70 (68) | 130 (112) | 30 (20) |
| 2,4-Dichlorophenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 70 (72) | 130 (118) | 30 (20) |
| Naphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | 15 | | 70 (72) | 130 (110) | 30 (20) |
| 4-Chloroaniline | 1100 | 0 | 390 | ug/Kg | 35 | * | 9 | | 70 (10) | 130 (91) | 30 (20) |
| Hexachlorobutadiene | 1100 | 0 | 1100 | ug/Kg | 100 | | 13 | | 70 (66) | 130 (114) | 30 (20) |
| Caprolactam | 1100 | 0 | 1100 | ug/Kg | 100 | | 11 | | 20 (51) | 160 (134) | 30 (20) |
| 4-Chloro-3-methylphenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 14 | | 70 (57) | 130 (132) | 30 (20) |
| 2-Methylnaphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | 13 | | 70 (59) | 130 (123) | 30 (20) |
| Hexachlorocyclopentadiene | 2200 | 0 | 4000 | ug/Kg | 182 | * | 13 | | 20 (10) | 160 (175) | 30 (20) |
| 2,4,6-Trichlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (72) | 130 (117) | 30 (20) |
| 2,4,5-Trichlorophenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 11 | | 70 (72) | 130 (117) | 30 (20) |
| 1,1-Biphenyl | 1100 | 0 | 1100 | ug/Kg | 100 | | 12 | | 70 (75) | 130 (113) | 30 (20) |
| 2-Chloronaphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | 14 | | 70 (67) | 130 (118) | 30 (20) |
| 2-Nitroaniline | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 70 (69) | 130 (127) | 30 (20) |
| Dimethylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (70) | 130 (113) | 30 (20) |
| Acenaphthylene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (79) | 130 (118) | 30 (20) |
| 2,6-Dinitrotoluene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (70) | 130 (125) | 30 (20) |
| 3-Nitroaniline | 1100 | 0 | 750 | ug/Kg | 68 | * | 13 | | 70 (30) | 130 (99) | 30 (20) |
| Acenaphthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 70 (70) | 130 (121) | 30 (20) |
| 2,4-Dinitrophenol | 2200 | 0 | 2400 | ug/Kg | 109 | | 9 | | 20 (10) | 160 (155) | 30 (20) |
| 4-Nitrophenol | 2200 | 0 | 2300 | ug/Kg | 105 | | 14 | | 20 (45) | 160 (133) | 30 (20) |
| Dibenzofuran | 1100 | 0 | 1100 | ug/Kg | 100 | | 12 | | 70 (72) | 130 (110) | 30 (20) |
| 2,4-Dinitrotoluene | 1100 | 0 | 1300 | ug/Kg | 118 | | 17 | | 70 (55) | 130 (128) | 30 (20) |
| Diethylphthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | 11 | | 70 (70) | 130 (112) | 30 (20) |
| 4-Chlorophenyl-phenylether | 1100 | 0 | 1100 | ug/Kg | 100 | | 12 | | 70 (71) | 130 (108) | 30 (20) |
| Fluorene | 1100 | 0 | 1100 | ug/Kg | 100 | | 14 | | 70 (68) | 130 (116) | 30 (20) |
| 4-Nitroaniline | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (55) | 130 (120) | 30 (20) |
| 4,6-Dinitro-2-methylphenol | 1100 | 0 | 1500 | ug/Kg | 136 | * | 14 | | 70 (10) | 130 (160) | 30 (20) |
| N-Nitrosodiphenylamine | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (73) | 130 (118) | 30 (20) |
| 4-Bromophenyl-phenylether | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (65) | 130 (121) | 30 (20) |
| Hexachlorobenzene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (67) | 130 (118) | 30 (20) |
| Atrazine | 1100 | 0 | 1400 | ug/Kg | 127 | | 15 | | 70 (79) | 130 (127) | 30 (20) |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4474

**Client:** Yannuzzi Group, Inc.

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 2200 | 0 | 2100 | ug/Kg | 95 | | 15 | | 20 (47) | 160 (128) | 30 (20) |
| Phenanthrene | 1100 | 0 | 1100 | ug/Kg | 100 | | 12 | | 70 (52) | 130 (128) | 30 (20) |
| Anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (62) | 130 (124) | 30 (20) |
| Carbazole | 1100 | 0 | 1100 | ug/Kg | 100 | | 19 | | 70 (59) | 130 (119) | 30 (20) |
| Di-n-butylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (69) | 130 (118) | 30 (20) |
| Fluoranthene | 1100 | 0 | 1000 | ug/Kg | 91 | | 15 | | 70 (44) | 130 (125) | 30 (20) |
| Pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | 9 | | 70 (26) | 130 (142) | 30 (20) |
| Butylbenzylphthalate | 1100 | 0 | 1300 | ug/Kg | 118 | | 8 | | 70 (64) | 130 (126) | 30 (20) |
| 3,3-Dichlorobenzidine | 1100 | 0 | 820 | ug/Kg | 75 | | 5 | | 70 (33) | 130 (116) | 30 (20) |
| Benzo(a)anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (71) | 130 (114) | 30 (20) |
| Chrysene | 1100 | 0 | 1100 | ug/Kg | 100 | | 12 | | 70 (57) | 130 (121) | 30 (20) |
| bis(2-Ethylhexyl)phthalate | 1100 | 0 | 1500 | ug/Kg | 136 | * | 14 | | 70 (42) | 130 (169) | 30 (20) |
| Di-n-octyl phthalate | 1100 | 0 | 1400 | ug/Kg | 127 | | 15 | | 70 (23) | 130 (175) | 30 (20) |
| Benzo(b)fluoranthene | 1100 | 0 | 1000 | ug/Kg | 91 | | 13 | | 70 (67) | 130 (121) | 30 (20) |
| Benzo(k)fluoranthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (57) | 130 (134) | 30 (20) |
| Benzo(a)pyrene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 70 (70) | 130 (142) | 30 (20) |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (40) | 130 (129) | 30 (20) |
| Dibenz(a,h)anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (43) | 130 (123) | 30 (20) |
| Benzo(g,h,i)perylene | 1100 | 0 | 990 | ug/Kg | 90 | | 13 | | 70 (24) | 130 (125) | 30 (20) |
| 1,2,4,5-Tetrachlorobenzene | 1100 | 0 | 1200 | ug/Kg | 109 | | 19 | | 70 (69) | 130 (124) | 30 (20) |
| 1,4-Dioxane | 1100 | 0 | 960 | ug/Kg | 87 | | 13 | | 20 (46) | 160 (112) | 30 (20) |
| 2,3,4,6-Tetrachlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 18 | | 70 (69) | 130 (112) | 30 (20) |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4474

**Client:** Yannuzzi Group, Inc.

**Analytical Method:** 8270E **DataFile:** BF139992.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164312BS | Benzaldehyde | 1700 | 500 | ug/Kg | 29 | | | | 20 (10) | 160 (133) | |
| | Phenol | 1700 | 1500 | ug/Kg | 88 | | | | 20 (62) | 160 (112) | |
| | bis(2-Chloroethyl)ether | 1700 | 1500 | ug/Kg | 88 | | | | 70 (60) | 130 (101) | |
| | 2-Chlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (65) | 130 (112) | |
| | 2-Methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (61) | 130 (108) | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1500 | ug/Kg | 88 | | | | 70 (51) | 130 (100) | |
| | Acetophenone | 1700 | 1500 | ug/Kg | 88 | | | | 70 (66) | 130 (98) | |
| | 3+4-Methylphenols | 1700 | 1500 | ug/Kg | 88 | | | | 20 (58) | 160 (111) | |
| | N-Nitroso-di-n-propylamine | 1700 | 1500 | ug/Kg | 88 | | | | 70 (63) | 130 (95) | |
| | Hexachloroethane | 1700 | 1500 | ug/Kg | 88 | | | | 20 (72) | 160 (108) | |
| | Nitrobenzene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (57) | 130 (101) | |
| | Isophorone | 1700 | 1600 | ug/Kg | 94 | | | | 70 (59) | 130 (99) | |
| | 2-Nitrophenol | 1700 | 1900 | ug/Kg | 112 | | | | 70 (61) | 130 (111) | |
| | 2,4-Dimethylphenol | 1700 | 1800 | ug/Kg | 106 | | | | 70 (46) | 130 (141) | |
| | bis(2-Chloroethoxy)methane | 1700 | 1600 | ug/Kg | 94 | | | | 70 (66) | 130 (97) | |
| | 2,4-Dichlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (62) | 130 (107) | |
| | Naphthalene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (62) | 130 (100) | |
| | 4-Chloroaniline | 1700 | 1200 | ug/Kg | 71 | | | | 70 (16) | 130 (100) | |
| | Hexachlorobutadiene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (53) | 130 (98) | |
| | Caprolactam | 1700 | 1600 | ug/Kg | 94 | | | | 20 (67) | 160 (110) | |
| | 4-Chloro-3-methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (112) | |
| | 2-Methylnaphthalene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (60) | 130 (104) | |
| | Hexachlorocyclopentadiene | 3300 | 6000 | ug/Kg | 182 | | * | | 20 (45) | 160 (165) | |
| | 2,4,6-Trichlorophenol | 1700 | 1700 | ug/Kg | 100 | | | | 70 (59) | 130 (102) | |
| | 2,4,5-Trichlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (98) | |
| | 1,1-Biphenyl | 1700 | 1500 | ug/Kg | 88 | | | | 70 (57) | 130 (103) | |
| | 2-Chloronaphthalene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (99) | |
| | 2-Nitroaniline | 1700 | 1700 | ug/Kg | 100 | | | | 70 (66) | 130 (101) | |
| | Dimethylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (99) | |
| | Acenaphthylene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (63) | 130 (101) | |
| | 2,6-Dinitrotoluene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (104) | |
| | 3-Nitroaniline | 1700 | 1300 | ug/Kg | 76 | | | | 70 (28) | 130 (100) | |
| | Acenaphthene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (57) | 130 (104) | |
| | 2,4-Dinitrophenol | 3300 | 4300 | ug/Kg | 130 | | | | 20 (37) | 160 (128) | |
| | 4-Nitrophenol | 3300 | 3400 | ug/Kg | 103 | | | | 20 (48) | 160 (119) | |
| | Dibenzofuran | 1700 | 1500 | ug/Kg | 88 | | | | 70 (63) | 130 (99) | |
| | 2,4-Dinitrotoluene | 1700 | 1800 | ug/Kg | 106 | | | | 70 (60) | 130 (106) | |
| | Diethylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (60) | 130 (101) | |
| | 4-Chlorophenyl-phenylether | 1700 | 1600 | ug/Kg | 94 | | | | 70 (58) | 130 (98) | |
| | Fluorene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (61) | 130 (101) | |
| | 4-Nitroaniline | 1700 | 1600 | ug/Kg | 94 | | | | 70 (64) | 130 (103) | |
| | 4,6-Dinitro-2-methylphenol | 1700 | 2300 | ug/Kg | 135 | | * | | 70 (76) | 130 (113) | |
| | N-Nitrosodiphenylamine | 1700 | 1500 | ug/Kg | 88 | | | | 70 (71) | 130 (99) | |
| | 4-Bromophenyl-phenylether | 1700 | 1600 | ug/Kg | 94 | | | | 70 (66) | 130 (102) | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4474

**Client:** Yannuzzi Group, Inc.

**Analytical Method:** 8270E **DataFile:** BF139992.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164312BS | Hexachlorobenzene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (64) | 130 (98) | |
| | Atrazine | 1700 | 1800 | ug/Kg | 106 | | | | 70 (47) | 130 (152) | |
| | Pentachlorophenol | 3300 | 3200 | ug/Kg | 97 | | | | 20 (67) | 160 (105) | |
| | Phenanthrene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (59) | 130 (103) | |
| | Anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (61) | 130 (105) | |
| | Carbazole | 1700 | 1500 | ug/Kg | 88 | | | | 70 (61) | 130 (99) | |
| | Di-n-butylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 70 (58) | 130 (104) | |
| | Fluoranthene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (57) | 130 (107) | |
| | Pyrene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (59) | 130 (103) | |
| | Butylbenzylphthalate | 1700 | 1700 | ug/Kg | 100 | | | | 70 (55) | 130 (103) | |
| | 3,3-Dichlorobenzidine | 1700 | 1500 | ug/Kg | 88 | | | | 70 (42) | 130 (91) | |
| | Benzo(a)anthracene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (60) | 130 (102) | |
| | Chrysene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (59) | 130 (101) | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 1700 | ug/Kg | 100 | | | | 70 (54) | 130 (135) | |
| | Di-n-octyl phthalate | 1700 | 1600 | ug/Kg | 94 | | | | 70 (52) | 130 (137) | |
| | Benzo(b)fluoranthene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (62) | 130 (109) | |
| | Benzo(k)fluoranthene | 1700 | 1500 | ug/Kg | 88 | | | | 70 (62) | 130 (109) | |
| | Benzo(a)pyrene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (63) | 130 (103) | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 1800 | ug/Kg | 106 | | | | 70 (63) | 130 (101) | |
| | Dibenz(a,h)anthracene | 1700 | 1800 | ug/Kg | 106 | | | | 70 (61) | 130 (112) | |
| | Benzo(g,h,i)perylene | 1700 | 1700 | ug/Kg | 100 | | | | 70 (70) | 130 (108) | |
| | 1,2,4,5-Tetrachlorobenzene | 1700 | 1600 | ug/Kg | 94 | | | | 70 (53) | 130 (101) | |
| | 1,4-Dioxane | 1700 | 1300 | ug/Kg | 76 | | | | 20 (50) | 160 (96) | |
| | 2,3,4,6-Tetrachlorophenol | 1700 | 1700 | ug/Kg | 100 | | | | 70 (59) | 130 (108) | |

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164312BL

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG NO.: P4474

Lab File ID: BF139991.D Lab Sample ID: PB164312BL

Instrument ID: BNA_F Date Extracted: 10/22/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/24/2024

Level: (low/med) LOW Time Analyzed: 10:23

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB164312BS | PB164312BS | BF139992.D | 10/24/2024 |
| TP-1MSD | P4467-01MSD | BF140005.D | 10/24/2024 |
| TS-2 | P4474-01 | BF139984.D | 10/24/2024 |
| TP-1MS | P4467-01MS | BF140004.D | 10/24/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM SAS No.: P4474 SDG NO.: P4474

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

Instrument ID: BNA_F DFTPP Injection Time: 09:22

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

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

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

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

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM SAS No.: P4474 SDG NO.: P4474

Lab File ID: BF139964.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:01

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 34.1 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 30.6 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 39 |
| 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 | 6.1 |
| 275 | 10.0 - 60.0% of mass 198 | 25.4 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 15.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.1 (19.1) 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 |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF139965.D | 10/23/2024 | 15:30 |
| TS-2 | P4474-01 | BF139984.D | 10/24/2024 | 00:40 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM SAS No.: P4474 SDG NO.: P4474

Lab File ID: BF139989.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:26

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 32.5 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 29.8 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 37.5 |
| 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 | 5.6 |
| 275 | 10.0 - 60.0% of mass 198 | 24.9 |
| 365 | Greater than 1% of mass 198 | 3.2 |
| 441 | Present, but less than mass 443 | 14.9 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.1 (19.1) 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 |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF139990.D | 10/24/2024 | 09:55 |
| PB164312BL | PB164312BL | BF139991.D | 10/24/2024 | 10:23 |
| PB164312BS | PB164312BS | BF139992.D | 10/24/2024 | 10:52 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM SAS No.: P4474 SDG NO.: P4474

Lab File ID: BF140000.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:47

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 40 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 35.2 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 44.2 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 26.7 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 15.7 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.3 (19.3) 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 | BF140001.D | 10/24/2024 | 15:16 |
| TP-1MS | P4467-01MS | BF140004.D | 10/24/2024 | 16:48 |
| TP-1MSD | P4467-01MSD | BF140005.D | 10/24/2024 | 17:17 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG NO.: P4474

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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 | 159858 | 6.892 | 611382 | 8.18 | 340124 | 9.93 |
| | UPPER LIMIT | 319716 | 7.392 | 1222760 | 8.675 | 680248 | 10.428 |
| | LOWER LIMIT | 79929 | 6.392 | 305691 | 7.675 | 170062 | 9.428 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TS-2 | 131007 | 6.89 | 463948 | 8.17 | 218643 | 9.93 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG NO.: P4474

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139965.D Time Analyzed: 15:30

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 | 597021 | 11.416 | 306092 | 14.057 | 358871 | 15.533 |
| | UPPER LIMIT | 1194040 | 11.916 | 612184 | 14.557 | 717742 | 16.033 |
| | LOWER LIMIT | 298511 | 10.916 | 153046 | 13.557 | 179436 | 15.033 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TS-2 | 348917 | 11.41 | 324231 | 14.05 | 250440 | 15.53 |

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.: P4474 SAS No.: P4474 SDG NO.: P4474

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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 | 160242 | 6.892 | 587754 | 8.18 | 322730 | 9.93 |
| | UPPER LIMIT | 320484 | 7.392 | 1175510 | 8.675 | 645460 | 10.428 |
| | LOWER LIMIT | 80121 | 6.392 | 293877 | 7.675 | 161365 | 9.428 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164312BL | 147139 | 6.89 | 571542 | 8.17 | 324595 | 9.93 |
| 02 | PB164312BS | 158670 | 6.89 | 605986 | 8.18 | 338004 | 9.93 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG NO.: P4474

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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 | 552693 | 11.416 | 268892 | 14.057 | 303963 | 15.533 |
| | UPPER LIMIT | 1105390 | 11.916 | 537784 | 14.557 | 607926 | 16.033 |
| | LOWER LIMIT | 276347 | 10.916 | 134446 | 13.557 | 151982 | 15.033 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164312BL | 586249 | 11.41 | 355232 | 14.05 | 286763 | 15.53 |
| 02 | PB164312BS | 591954 | 11.42 | 292113 | 14.06 | 314861 | 15.53 |

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.: P4474 SAS No.: P4474 SDG NO.: P4474

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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 | 162461 | 6.892 | 593909 | 8.18 | 325446 | 9.93 |
| | UPPER LIMIT | 324922 | 7.392 | 1187820 | 8.675 | 650892 | 10.428 |
| | LOWER LIMIT | 81230.5 | 6.392 | 296955 | 7.675 | 162723 | 9.428 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TP-1MS | 151264 | 6.89 | 576250 | 8.18 | 315137 | 9.93 |
| 02 | TP-1MSD | 131947 | 6.89 | 501368 | 8.18 | 271082 | 9.93 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG NO.: P4474

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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 | 551060 | 11.416 | 264546 | 14.051 | 308388 | 15.533 |
| | UPPER LIMIT | 1102120 | 11.916 | 529092 | 14.551 | 616776 | 16.033 |
| | LOWER LIMIT | 275530 | 10.916 | 132273 | 13.551 | 154194 | 15.033 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TP-1MS | 529411 | 11.42 | 267551 | 14.05 | 360724 | 15.53 |
| 02 | TP-1MSD | 450738 | 11.42 | 233244 | 14.05 | 308426 | 15.53 |

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | |
| Client Sample ID: | PB164312BL | SDG No.: | P4474 |
| Lab Sample ID: | PB164312BL | 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 |
|---|---|---|---|---|
| BF139991.D | 1 | 10/22/24 10:44 | 10/24/24 10:23 | PB164312 |

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | |
| Client Sample ID: | PB164312BL | SDG No.: | P4474 |
| Lab Sample ID: | PB164312BL | 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 |
|---|---|---|---|---|
| BF139991.D | 1 | 10/22/24 10:44 | 10/24/24 10:23 | PB164312 |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | |
| Client Sample ID: | PB164312BL | SDG No.: | P4474 |
| Lab Sample ID: | PB164312BL | 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 |
|---|---|---|---|---|
| BF139991.D | 1 | 10/22/24 10:44 | 10/24/24 10:23 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 82.6 | U | 82.6 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 93.0 | U | 93.0 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 78.1 | U | 78.1 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 81.2 | U | 81.2 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 80.1 | U | 80.1 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 86.8 | U | 86.8 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 74.7 | U | 74.7 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 131 | | 30 (18) - 130 (112) | 87% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 126 | | 30 (15) - 130 (107) | 84% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 96.5 | | 30 (18) - 130 (107) | 96% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 93.3 | | 30 (20) - 130 (109) | 93% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 158 | | 30 (10) - 130 (116) | 105% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 92.9 | | 30 (10) - 130 (105) | 93% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 147000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 572000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 325000 | 9.928 | | | |
| 1517-22-2 | Phenanthrene-d10 | 586000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 355000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 287000 | 15.527 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 110 | J | | 2.23 | ug/Kg |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 240 | A | | 5.13 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | | | Date Collected: | |
| Project: | 86 Davidson Road, Piscataway, NJ | | | Date Received: | |
| Client Sample ID: | PB164312BL | | | SDG No.: | P4474 |
| Lab Sample ID: | PB164312BL | | | 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 |
|---|---|---|---|---|
| BF139991.D | 1 | 10/22/24 10:44 | 10/24/24 10:23 | PB164312 |

| 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: | Yannuzzi Group, Inc. | Date Collected: | |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | |
| Client Sample ID: | PB164312BS | SDG No.: | P4474 |
| Lab Sample ID: | PB164312BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 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 |
|---|---|---|---|---|
| BF139992.D | 1 | 10/22/24 10:44 | 10/24/24 10:52 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 500 | | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 1500 | | 82.8 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1500 | | 83.6 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1600 | | 83.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1500 | | 80.5 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1500 | | 90.8 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1500 | | 86.8 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1500 | | 79.7 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1500 | | 40.3 | 79.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1500 | | 82.9 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1500 | | 90.7 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1600 | | 84.5 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1900 | | 94.4 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1800 | | 93.1 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1600 | | 85.7 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | | 75.4 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1500 | | 82.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 1200 | | 82.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1600 | | 83.2 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1600 | | 86.7 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1500 | | 77.4 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1600 | | 82.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 6000 | E | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1700 | | 71.4 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1600 | | 74.0 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1500 | | 87.3 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1500 | | 83.2 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1700 | | 94.9 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1600 | | 81.6 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | |
| Client Sample ID: | PB164312BS | SDG No.: | P4474 |
| Lab Sample ID: | PB164312BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 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 |
|---|---|---|---|---|
| BF139992.D | 1 | 10/22/24 10:44 | 10/24/24 10:52 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1600 | | 86.4 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1600 | | 83.1 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1300 | | 89.1 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1700 | | 81.0 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 4300 | E | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3400 | E | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1500 | | 84.3 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1800 | | 86.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1500 | | 80.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1600 | | 85.5 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1500 | | 85.4 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1600 | | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2300 | | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1500 | | 81.5 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1600 | | 78.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1600 | | 84.9 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 1800 | | 91.3 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3200 | E | 77.2 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 1600 | | 83.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1600 | | 84.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1500 | | 80.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1500 | | 84.2 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1500 | | 81.6 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1600 | | 82.9 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1700 | | 96.7 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1500 | | 98.5 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1600 | | 80.6 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1600 | | 79.4 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1700 | | 90.9 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1600 | | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1600 | | 81.0 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | |
| Client Sample ID: | PB164312BS | SDG No.: | P4474 |
| Lab Sample ID: | PB164312BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 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 |
|---|---|---|---|---|
| BF139992.D | 1 | 10/22/24 10:44 | 10/24/24 10:52 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1500 | | 82.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1700 | | 92.9 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1800 | | 78.0 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1800 | | 81.1 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1700 | | 80.0 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1600 | | 86.7 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1300 | | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1700 | | 74.7 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 129 | | 30 (18) - 130 (112) | 86% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 126 | | 30 (15) - 130 (107) | 84% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 99.4 | | 30 (18) - 130 (107) | 99% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 93.9 | | 30 (20) - 130 (109) | 94% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 157 | | 30 (10) - 130 (116) | 104% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 105 | | 30 (10) - 130 (105) | 105% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 159000 | 6.892 | | | |
| 1146-65-2 | Naphthalene-d8 | 606000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 338000 | 9.927 | | | |
| 1517-22-2 | Phenanthrene-d10 | 592000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 292000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 315000 | 15.533 | | | |

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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/21/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TP-1MS | SDG No.: | P4474 |
| Lab Sample ID: | P4467-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.7 |
| Sample Wt/Vol: | 50.03 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 |
|---|---|---|---|---|
| BF140004.D | 1 | 10/22/24 10:44 | 10/24/24 16:48 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 290 | | 120 | 220 | ug/Kg |
| 108-95-2 | Phenol | 960 | | 54.8 | 110 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 950 | | 55.3 | 110 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 990 | | 55.2 | 110 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 960 | | 53.3 | 110 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 910 | | 60.1 | 110 | ug/Kg |
| 98-86-2 | Acetophenone | 950 | | 57.5 | 110 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 920 | | 52.8 | 220 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 930 | | 26.6 | 52.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 940 | | 54.9 | 110 | ug/Kg |
| 98-95-3 | Nitrobenzene | 930 | | 60.0 | 110 | ug/Kg |
| 78-59-1 | Isophorone | 970 | | 55.9 | 110 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1200 | | 62.5 | 110 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1100 | | 61.6 | 110 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 950 | | 56.7 | 110 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1000 | | 49.9 | 110 | ug/Kg |
| 91-20-3 | Naphthalene | 950 | | 54.6 | 110 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 350 | | 54.6 | 110 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 970 | | 55.1 | 110 | ug/Kg |
| 105-60-2 | Caprolactam | 990 | | 57.4 | 220 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 960 | | 51.2 | 110 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 970 | | 54.5 | 110 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 3500 | E | 100 | 220 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | | 47.2 | 110 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 990 | | 48.9 | 110 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 980 | | 57.8 | 110 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 960 | | 55.1 | 110 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1100 | | 62.8 | 110 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1000 | | 54.0 | 110 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/21/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TP-1MS | SDG No.: | P4474 |
| Lab Sample ID: | P4467-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.7 |
| Sample Wt/Vol: | 50.03 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 |
|---|---|---|---|---|
| BF140004.D | 1 | 10/22/24 10:44 | 10/24/24 16:48 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1000 | | 57.2 | 110 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | | 55.0 | 110 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 660 | | 59.0 | 110 | ug/Kg |
| 83-32-9 | Acenaphthene | 1100 | | 53.6 | 110 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 2200 | E | 160 | 220 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2000 | E | 76.7 | 220 | ug/Kg |
| 132-64-9 | Dibenzofuran | 980 | | 55.8 | 110 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | | 57.0 | 110 | ug/Kg |
| 84-66-2 | Diethylphthalate | 990 | | 53.0 | 110 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 980 | | 56.6 | 110 | ug/Kg |
| 86-73-7 | Fluorene | 960 | | 56.5 | 110 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1000 | | 70.7 | 110 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | | 77.4 | 220 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1000 | | 53.9 | 110 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | | 52.2 | 110 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1000 | | 56.2 | 110 | ug/Kg |
| 1912-24-9 | Atrazine | 1200 | | 60.4 | 110 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 1800 | E | 51.1 | 220 | ug/Kg |
| 85-01-8 | Phenanthrene | 980 | | 55.5 | 110 | ug/Kg |
| 120-12-7 | Anthracene | 1000 | | 55.8 | 110 | ug/Kg |
| 86-74-8 | Carbazole | 910 | | 53.1 | 110 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1000 | | 55.7 | 110 | ug/Kg |
| 206-44-0 | Fluoranthene | 860 | | 54.0 | 110 | ug/Kg |
| 129-00-0 | Pyrene | 910 | | 54.9 | 110 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1200 | | 64.0 | 110 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 780 | | 65.2 | 220 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1000 | | 53.4 | 110 | ug/Kg |
| 218-01-9 | Chrysene | 980 | | 52.6 | 110 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1300 | | 60.2 | 110 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1200 | | 72.7 | 220 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 880 | | 53.6 | 110 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/21/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TP-1MS | SDG No.: | P4474 |
| Lab Sample ID: | P4467-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.7 |
| Sample Wt/Vol: | 50.03 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 |
|---|---|---|---|---|
| BF140004.D | 1 | 10/22/24 10:44 | 10/24/24 16:48 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1000 | | 54.6 | 110 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1100 | | 61.5 | 110 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1000 | | 51.6 | 110 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1000 | | 53.7 | 110 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 870 | | 53.0 | 110 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 990 | | 57.4 | 110 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 840 | | 72.7 | 110 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1000 | | 49.4 | 110 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 83.4 | | 30 (18) - 130 (112) | 56% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 81.7 | | 30 (15) - 130 (107) | 54% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 61.8 | | 30 (18) - 130 (107) | 62% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 58.9 | | 30 (20) - 130 (109) | 59% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 96.0 | | 30 (10) - 130 (116) | 64% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 55.7 | | 30 (10) - 130 (105) | 56% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 151000 | 6.893 | | | |
| 1146-65-2 | Naphthalene-d8 | 576000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 315000 | 9.928 | | | |
| 1517-22-2 | Phenanthrene-d10 | 529000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 268000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 361000 | 15.533 | | | |

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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/21/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TP-1MSD | SDG No.: | P4474 |
| Lab Sample ID: | P4467-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.7 |
| Sample Wt/Vol: | 50.06 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 |
|---|---|---|---|---|
| BF140005.D | 1 | 10/22/24 10:44 | 10/24/24 17:17 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 340 | | 120 | 220 | ug/Kg |
| 108-95-2 | Phenol | 1100 | | 54.8 | 110 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1100 | | 55.3 | 110 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1100 | | 55.2 | 110 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1100 | | 53.3 | 110 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1000 | | 60.1 | 110 | ug/Kg |
| 98-86-2 | Acetophenone | 1100 | | 57.4 | 110 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1100 | | 52.7 | 220 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1100 | | 26.6 | 52.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1100 | | 54.8 | 110 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1100 | | 60.0 | 110 | ug/Kg |
| 78-59-1 | Isophorone | 1100 | | 55.9 | 110 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1400 | | 62.4 | 110 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1300 | | 61.6 | 110 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1100 | | 56.7 | 110 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1100 | | 49.9 | 110 | ug/Kg |
| 91-20-3 | Naphthalene | 1100 | | 54.6 | 110 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 390 | | 54.6 | 110 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1100 | | 55.0 | 110 | ug/Kg |
| 105-60-2 | Caprolactam | 1100 | | 57.4 | 220 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | | 51.2 | 110 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1100 | | 54.5 | 110 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 4000 | E | 100 | 220 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1200 | | 47.2 | 110 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | | 48.9 | 110 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1100 | | 57.7 | 110 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1100 | | 55.0 | 110 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1200 | | 62.8 | 110 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1200 | | 54.0 | 110 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/21/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TP-1MSD | SDG No.: | P4474 |
| Lab Sample ID: | P4467-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.7 |
| Sample Wt/Vol: | 50.06 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 |
|---|---|---|---|---|
| BF140005.D | 1 | 10/22/24 10:44 | 10/24/24 17:17 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1200 | | 57.2 | 110 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1200 | | 55.0 | 110 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 750 | | 58.9 | 110 | ug/Kg |
| 83-32-9 | Acenaphthene | 1200 | | 53.6 | 110 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 2400 | E | 160 | 220 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2300 | E | 76.6 | 220 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1100 | | 55.8 | 110 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1300 | | 57.0 | 110 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1100 | | 52.9 | 110 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1100 | | 56.6 | 110 | ug/Kg |
| 86-73-7 | Fluorene | 1100 | | 56.5 | 110 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1200 | | 70.7 | 110 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1500 | | 77.3 | 220 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1200 | | 53.9 | 110 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1200 | | 52.1 | 110 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1200 | | 56.2 | 110 | ug/Kg |
| 1912-24-9 | Atrazine | 1400 | | 60.4 | 110 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2100 | E | 51.1 | 220 | ug/Kg |
| 85-01-8 | Phenanthrene | 1100 | | 55.5 | 110 | ug/Kg |
| 120-12-7 | Anthracene | 1200 | | 55.8 | 110 | ug/Kg |
| 86-74-8 | Carbazole | 1100 | | 53.1 | 110 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1200 | | 55.7 | 110 | ug/Kg |
| 206-44-0 | Fluoranthene | 1000 | | 54.0 | 110 | ug/Kg |
| 129-00-0 | Pyrene | 1000 | | 54.8 | 110 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1300 | | 64.0 | 110 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 820 | | 65.1 | 220 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1200 | | 53.3 | 110 | ug/Kg |
| 218-01-9 | Chrysene | 1100 | | 52.5 | 110 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1500 | | 60.1 | 110 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1400 | | 72.7 | 220 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1000 | | 53.6 | 110 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Yannuzzi Group, Inc. | Date Collected: | 10/21/24 |
| Project: | 86 Davidson Road, Piscataway, NJ | Date Received: | 10/21/24 |
| Client Sample ID: | TP-1MSD | SDG No.: | P4474 |
| Lab Sample ID: | P4467-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.7 |
| Sample Wt/Vol: | 50.06 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 |
|---|---|---|---|---|
| BF140005.D | 1 | 10/22/24 10:44 | 10/24/24 17:17 | PB164312 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1200 | | 54.6 | 110 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1200 | | 61.4 | 110 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1200 | | 51.6 | 110 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1200 | | 53.7 | 110 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 990 | | 52.9 | 110 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1200 | | 57.4 | 110 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 960 | | 72.7 | 110 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1200 | | 49.4 | 110 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 94.9 | | 30 (18) - 130 (112) | 63% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 92.7 | | 30 (15) - 130 (107) | 62% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 70.6 | | 30 (18) - 130 (107) | 71% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 68.2 | | 30 (20) - 130 (109) | 68% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 110 | | 30 (10) - 130 (116) | 74% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 64.9 | | 30 (10) - 130 (105) | 65% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 6.893 | | | |
| 1146-65-2 | Naphthalene-d8 | 501000 | 8.175 | | | |
| 15067-26-2 | Acenaphthene-d10 | 271000 | 9.928 | | | |
| 1517-22-2 | Phenanthrene-d10 | 451000 | 11.416 | | | |
| 1719-03-5 | Chrysene-d12 | 233000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 308000 | 15.527 | | | |

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

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

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

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

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

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

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

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG No.: P4474

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 15:30

Lab File ID: BF139965.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.278 | 1.233 | | -3.5 | |
| Benzaldehyde | 0.931 | 0.939 | | 0.9 | |
| Phenol-d6 | 1.655 | 1.579 | | -4.6 | |
| Phenol | 1.706 | 1.663 | | -2.5 | 20.0 |
| bis(2-Chloroethyl)ether | 1.319 | 1.273 | | -3.5 | |
| 2-Chlorophenol | 1.306 | 1.291 | | -1.1 | |
| 2-Methylphenol | 1.114 | 1.099 | | -1.3 | |
| 2,2-oxybis(1-Chloropropane) | 2.248 | 2.018 | | -10.2 | |
| Acetophenone | 0.490 | 0.467 | | -4.7 | |
| 3+4-Methylphenols | 1.424 | 1.388 | | -2.5 | |
| n-Nitroso-di-n-propylamine | 1.004 | 0.918 | 0.050 | -8.6 | |
| Nitrobenzene-d5 | 0.361 | 0.370 | | 2.5 | |
| Hexachloroethane | 0.534 | 0.530 | | -0.7 | |
| Nitrobenzene | 0.396 | 0.391 | | -1.3 | |
| Isophorone | 0.685 | 0.651 | | -5.0 | |
| 2-Nitrophenol | 0.149 | 0.175 | | 17.5 | 20.0 |
| 2,4-Dimethylphenol | 0.249 | 0.239 | | -4.0 | |
| bis(2-Chloroethoxy)methane | 0.415 | 0.397 | | -4.3 | |
| 2,4-Dichlorophenol | 0.283 | 0.283 | | 0.0 | 20.0 |
| Naphthalene | 1.031 | 1.011 | | -1.9 | |
| 4-Chloroaniline | 0.352 | 0.340 | | -3.4 | |
| Hexachlorobutadiene | 0.197 | 0.199 | | 1.0 | 20.0 |
| Caprolactam | 0.090 | 0.092 | | 2.2 | |
| 4-Chloro-3-methylphenol | 0.314 | 0.308 | | -1.9 | 20.0 |
| 2-Methylnaphthalene | 0.632 | 0.618 | | -2.2 | |
| Hexachlorocyclopentadiene | 0.188 | 0.193 | 0.050 | 2.7 | |
| 2,4,6-Trichlorophenol | 0.382 | 0.381 | | -0.3 | 20.0 |
| 2-Fluorobiphenyl | 1.210 | 1.169 | | -3.4 | |
| 2,4,5-Trichlorophenol | 0.394 | 0.415 | | 5.3 | |
| 1,1-Biphenyl | 1.392 | 1.351 | | -2.9 | |
| 2-Chloronaphthalene | 1.121 | 1.097 | | -2.1 | |
| 2-Nitroaniline | 0.343 | 0.369 | | 7.6 | |
| Dimethylphthalate | 1.246 | 1.226 | | -1.6 | |
| Acenaphthylene | 1.621 | 1.588 | | -2.0 | |
| 2,6-Dinitrotoluene | 0.270 | 0.289 | | 7.0 | |
| 3-Nitroaniline | 0.278 | 0.292 | | 5.0 | |
| Acenaphthene | 1.049 | 1.051 | | 0.2 | 20.0 |
| 2,4-Dinitrophenol | 0.093 | 0.139 | 0.050 | 49.5 | |
| 4-Nitrophenol | 0.214 | 0.228 | 0.050 | 6.5 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG No.: P4474

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 15:30

Lab File ID: BF139965.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.505 | 1.458 | | -3.1 | |
| 2,4-Dinitrotoluene | 0.332 | 0.379 | | 14.2 | |
| Diethylphthalate | 1.223 | 1.211 | | -1.0 | |
| 4-Chlorophenyl-phenylether | 0.579 | 0.574 | | -0.9 | |
| Fluorene | 1.146 | 1.118 | | -2.4 | |
| 4-Nitroaniline | 0.263 | 0.280 | | 6.5 | |
| 4,6-Dinitro-2-methylphenol | 0.082 | 0.112 | | 36.6 | |
| n-Nitrosodiphenylamine | 0.599 | 0.583 | | -2.7 | 20.0 |
| 2,4,6-Tribromophenol | 0.187 | 0.204 | | 9.1 | |
| 4-Bromophenyl-phenylether | 0.206 | 0.211 | | 2.4 | |
| Hexachlorobenzene | 0.232 | 0.234 | | 0.9 | |
| Atrazine | 0.162 | 0.166 | | 2.5 | |
| Pentachlorophenol | 0.141 | 0.157 | | 11.3 | 20.0 |
| Phenanthrene | 0.945 | 0.920 | | -2.6 | |
| Anthracene | 0.922 | 0.894 | | -3.0 | |
| Carbazole | 0.857 | 0.815 | | -4.9 | |
| Di-n-butylphthalate | 0.990 | 0.956 | | -3.4 | |
| Fluoranthene | 0.955 | 0.893 | | -6.5 | 20.0 |
| Pyrene | 1.751 | 1.731 | | -1.1 | |
| Terphenyl-d14 | 1.227 | 1.227 | | 0.0 | |
| Butylbenzylphthalate | 0.525 | 0.540 | | 2.9 | |
| 3,3-Dichlorobenzidine | 0.380 | 0.447 | | 17.6 | |
| Benzo(a)anthracene | 1.302 | 1.293 | | -0.7 | |
| Chrysene | 1.194 | 1.157 | | -3.1 | |
| Bis(2-ethylhexyl)phthalate | 0.589 | 0.666 | | 13.1 | |
| Di-n-octyl phthalate | 1.071 | 1.198 | | 11.9 | 20.0 |
| Benzo(b)fluoranthene | 1.218 | 1.083 | | -11.1 | |
| Benzo(k)fluoranthene | 1.051 | 1.048 | | -0.3 | |
| Benzo(a)pyrene | 1.002 | 0.978 | | -2.4 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.287 | 1.280 | | -0.5 | |
| Dibenzo(a,h)anthracene | 1.073 | 1.060 | | -1.2 | |
| Benzo(g,h,i)perylene | 1.072 | 1.053 | | -1.8 | |
| 1,2,4,5-Tetrachlorobenzene | 0.540 | 0.540 | | 0.0 | |
| 1,4-Dioxane | 0.596 | 0.581 | | -2.5 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.309 | 0.324 | | 4.9 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG No.: P4474

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 09:55

Lab File ID: BF139990.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.278 | 1.208 | | -5.5 | |
| Benzaldehyde | 0.931 | 0.831 | | -10.7 | |
| Phenol-d6 | 1.655 | 1.504 | | -9.1 | |
| Phenol | 1.706 | 1.572 | | -7.9 | 20.0 |
| bis(2-Chloroethyl)ether | 1.319 | 1.218 | | -7.7 | |
| 2-Chlorophenol | 1.306 | 1.240 | | -5.1 | |
| 2-Methylphenol | 1.114 | 1.030 | | -7.5 | |
| 2,2-oxybis(1-Chloropropane) | 2.248 | 1.937 | | -13.8 | |
| Acetophenone | 0.490 | 0.464 | | -5.3 | |
| 3+4-Methylphenols | 1.424 | 1.299 | | -8.8 | |
| n-Nitroso-di-n-propylamine | 1.004 | 0.880 | 0.050 | -12.4 | |
| Nitrobenzene-d5 | 0.361 | 0.374 | | 3.6 | |
| Hexachloroethane | 0.534 | 0.521 | | -2.4 | |
| Nitrobenzene | 0.396 | 0.392 | | -1.0 | |
| Isophorone | 0.685 | 0.644 | | -6.0 | |
| 2-Nitrophenol | 0.149 | 0.177 | | 18.8 | 20.0 |
| 2,4-Dimethylphenol | 0.249 | 0.234 | | -6.0 | |
| bis(2-Chloroethoxy)methane | 0.415 | 0.394 | | -5.1 | |
| 2,4-Dichlorophenol | 0.283 | 0.280 | | -1.1 | 20.0 |
| Naphthalene | 1.031 | 1.003 | | -2.7 | |
| 4-Chloroaniline | 0.352 | 0.334 | | -5.1 | |
| Hexachlorobutadiene | 0.197 | 0.202 | | 2.5 | 20.0 |
| Caprolactam | 0.090 | 0.088 | | -2.2 | |
| 4-Chloro-3-methylphenol | 0.314 | 0.299 | | -4.8 | 20.0 |
| 2-Methylnaphthalene | 0.632 | 0.616 | | -2.5 | |
| Hexachlorocyclopentadiene | 0.188 | 0.207 | 0.050 | 10.1 | |
| 2,4,6-Trichlorophenol | 0.382 | 0.403 | | 5.5 | 20.0 |
| 2-Fluorobiphenyl | 1.210 | 1.183 | | -2.2 | |
| 2,4,5-Trichlorophenol | 0.394 | 0.395 | | 0.3 | |
| 1,1-Biphenyl | 1.392 | 1.371 | | -1.5 | |
| 2-Chloronaphthalene | 1.121 | 1.110 | | -1.0 | |
| 2-Nitroaniline | 0.343 | 0.362 | | 5.5 | |
| Dimethylphthalate | 1.246 | 1.208 | | -3.0 | |
| Acenaphthylene | 1.621 | 1.581 | | -2.5 | |
| 2,6-Dinitrotoluene | 0.270 | 0.286 | | 5.9 | |
| 3-Nitroaniline | 0.278 | 0.284 | | 2.2 | |
| Acenaphthene | 1.049 | 1.051 | | 0.2 | 20.0 |
| 2,4-Dinitrophenol | 0.093 | 0.148 | 0.050 | 59.1 | |
| 4-Nitrophenol | 0.214 | 0.229 | 0.050 | 7.0 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG No.: P4474

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 09:55

Lab File ID: BF139990.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.505 | 1.448 | | -3.8 | |
| 2,4-Dinitrotoluene | 0.332 | 0.371 | | 11.7 | |
| Diethylphthalate | 1.223 | 1.175 | | -3.9 | |
| 4-Chlorophenyl-phenylether | 0.579 | 0.580 | | 0.2 | |
| Fluorene | 1.146 | 1.110 | | -3.1 | |
| 4-Nitroaniline | 0.263 | 0.259 | | -1.5 | |
| 4,6-Dinitro-2-methylphenol | 0.082 | 0.117 | | 42.7 | |
| n-Nitrosodiphenylamine | 0.599 | 0.588 | | -1.8 | 20.0 |
| 2,4,6-Tribromophenol | 0.187 | 0.205 | | 9.6 | |
| 4-Bromophenyl-phenylether | 0.206 | 0.216 | | 4.9 | |
| Hexachlorobenzene | 0.232 | 0.240 | | 3.4 | |
| Atrazine | 0.162 | 0.161 | | -0.6 | |
| Pentachlorophenol | 0.141 | 0.164 | | 16.3 | 20.0 |
| Phenanthrene | 0.945 | 0.917 | | -3.0 | |
| Anthracene | 0.922 | 0.908 | | -1.5 | |
| Carbazole | 0.857 | 0.802 | | -6.4 | |
| Di-n-butylphthalate | 0.990 | 0.948 | | -4.2 | |
| Fluoranthene | 0.955 | 0.903 | | -5.4 | 20.0 |
| Pyrene | 1.751 | 1.844 | | 5.3 | |
| Terphenyl-d14 | 1.227 | 1.286 | | 4.8 | |
| Butylbenzylphthalate | 0.525 | 0.536 | | 2.1 | |
| 3,3-Dichlorobenzidine | 0.380 | 0.412 | | 8.4 | |
| Benzo(a)anthracene | 1.302 | 1.275 | | -2.1 | |
| Chrysene | 1.194 | 1.140 | | -4.5 | |
| Bis(2-ethylhexyl)phthalate | 0.589 | 0.640 | | 8.7 | |
| Di-n-octyl phthalate | 1.071 | 1.138 | | 6.3 | 20.0 |
| Benzo(b)fluoranthene | 1.218 | 1.075 | | -11.7 | |
| Benzo(k)fluoranthene | 1.051 | 1.055 | | 0.4 | |
| Benzo(a)pyrene | 1.002 | 0.994 | | -0.8 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.287 | 1.421 | | 10.4 | |
| Dibenzo(a,h)anthracene | 1.073 | 1.182 | | 10.2 | |
| Benzo(g,h,i)perylene | 1.072 | 1.222 | | 14.0 | |
| 1,2,4,5-Tetrachlorobenzene | 0.540 | 0.551 | | 2.0 | |
| 1,4-Dioxane | 0.596 | 0.552 | | -7.4 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.309 | 0.322 | | 4.2 | |

All other compounds must meet a minimum RRF of 0.010.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG No.: P4474

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.278 | 1.208 | | -5.5 | |
| Benzaldehyde | 0.931 | 0.931 | | 0.0 | |
| Phenol-d6 | 1.655 | 1.521 | | -8.1 | |
| Phenol | 1.706 | 1.601 | | -6.2 | 20.0 |
| bis(2-Chloroethyl)ether | 1.319 | 1.259 | | -4.5 | |
| 2-Chlorophenol | 1.306 | 1.259 | | -3.6 | |
| 2-Methylphenol | 1.114 | 1.047 | | -6.0 | |
| 2,2-oxybis(1-Chloropropane) | 2.248 | 1.948 | | -13.3 | |
| Acetophenone | 0.490 | 0.472 | | -3.7 | |
| 3+4-Methylphenols | 1.424 | 1.322 | | -7.2 | |
| n-Nitroso-di-n-propylamine | 1.004 | 0.889 | 0.050 | -11.5 | |
| Nitrobenzene-d5 | 0.361 | 0.374 | | 3.6 | |
| Hexachloroethane | 0.534 | 0.526 | | -1.5 | |
| Nitrobenzene | 0.396 | 0.397 | | 0.3 | |
| Isophorone | 0.685 | 0.655 | | -4.4 | |
| 2-Nitrophenol | 0.149 | 0.178 | | 19.5 | 20.0 |
| 2,4-Dimethylphenol | 0.249 | 0.238 | | -4.4 | |
| bis(2-Chloroethoxy)methane | 0.415 | 0.407 | | -1.9 | |
| 2,4-Dichlorophenol | 0.283 | 0.285 | | 0.7 | 20.0 |
| Naphthalene | 1.031 | 1.015 | | -1.6 | |
| 4-Chloroaniline | 0.352 | 0.336 | | -4.5 | |
| Hexachlorobutadiene | 0.197 | 0.203 | | 3.0 | 20.0 |
| Caprolactam | 0.090 | 0.089 | | -1.1 | |
| 4-Chloro-3-methylphenol | 0.314 | 0.306 | | -2.5 | 20.0 |
| 2-Methylnaphthalene | 0.632 | 0.623 | | -1.4 | |
| Hexachlorocyclopentadiene | 0.188 | 0.199 | 0.050 | 5.9 | |
| 2,4,6-Trichlorophenol | 0.382 | 0.387 | | 1.3 | 20.0 |
| 2-Fluorobiphenyl | 1.210 | 1.197 | | -1.1 | |
| 2,4,5-Trichlorophenol | 0.394 | 0.415 | | 5.3 | |
| 1,1-Biphenyl | 1.392 | 1.393 | | 0.1 | |
| 2-Chloronaphthalene | 1.121 | 1.127 | | 0.5 | |
| 2-Nitroaniline | 0.343 | 0.369 | | 7.6 | |
| Dimethylphthalate | 1.246 | 1.232 | | -1.1 | |
| Acenaphthylene | 1.621 | 1.600 | | -1.3 | |
| 2,6-Dinitrotoluene | 0.270 | 0.292 | | 8.1 | |
| 3-Nitroaniline | 0.278 | 0.285 | | 2.5 | |
| Acenaphthene | 1.049 | 1.061 | | 1.1 | 20.0 |
| 2,4-Dinitrophenol | 0.093 | 0.142 | 0.050 | 52.7 | |
| 4-Nitrophenol | 0.214 | 0.216 | 0.050 | 0.9 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: YANN01

Lab Code: CHEM Case No.: P4474 SAS No.: P4474 SDG No.: P4474

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.D Init. Calib. Date(s): 10/18/2024 10/18/2024

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.505 | 1.482 | | -1.5 | |
| 2,4-Dinitrotoluene | 0.332 | 0.371 | | 11.7 | |
| Diethylphthalate | 1.223 | 1.183 | | -3.3 | |
| 4-Chlorophenyl-phenylether | 0.579 | 0.577 | | -0.3 | |
| Fluorene | 1.146 | 1.115 | | -2.7 | |
| 4-Nitroaniline | 0.263 | 0.268 | | 1.9 | |
| 4,6-Dinitro-2-methylphenol | 0.082 | 0.115 | | 40.2 | |
| n-Nitrosodiphenylamine | 0.599 | 0.597 | | -0.3 | 20.0 |
| 2,4,6-Tribromophenol | 0.187 | 0.207 | | 10.7 | |
| 4-Bromophenyl-phenylether | 0.206 | 0.220 | | 6.8 | |
| Hexachlorobenzene | 0.232 | 0.242 | | 4.3 | |
| Atrazine | 0.162 | 0.163 | | 0.6 | |
| Pentachlorophenol | 0.141 | 0.159 | | 12.8 | 20.0 |
| Phenanthrene | 0.945 | 0.922 | | -2.4 | |
| Anthracene | 0.922 | 0.910 | | -1.3 | |
| Carbazole | 0.857 | 0.810 | | -5.5 | |
| Di-n-butylphthalate | 0.990 | 0.945 | | -4.5 | |
| Fluoranthene | 0.955 | 0.896 | | -6.2 | 20.0 |
| Pyrene | 1.751 | 1.855 | | 5.9 | |
| Terphenyl-d14 | 1.227 | 1.306 | | 6.4 | |
| Butylbenzylphthalate | 0.525 | 0.544 | | 3.6 | |
| 3,3-Dichlorobenzidine | 0.380 | 0.435 | | 14.5 | |
| Benzo(a)anthracene | 1.302 | 1.322 | | 1.5 | |
| Chrysene | 1.194 | 1.125 | | -5.8 | |
| Bis(2-ethylhexyl)phthalate | 0.589 | 0.627 | | 6.5 | |
| Di-n-octyl phthalate | 1.071 | 1.102 | | 2.9 | 20.0 |
| Benzo(b)fluoranthene | 1.218 | 1.087 | | -10.8 | |
| Benzo(k)fluoranthene | 1.051 | 1.032 | | -1.8 | |
| Benzo(a)pyrene | 1.002 | 0.984 | | -1.8 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.287 | 1.386 | | 7.7 | |
| Dibenzo(a,h)anthracene | 1.073 | 1.154 | | 7.5 | |
| Benzo(g,h,i)perylene | 1.072 | 1.167 | | 8.9 | |
| 1,2,4,5-Tetrachlorobenzene | 0.540 | 0.560 | | 3.7 | |
| 1,4-Dioxane | 0.596 | 0.573 | | -3.9 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.309 | 0.321 | | 3.9 | |

All other compounds must meet a minimum RRF of 0.010.