



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

*Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:*

### ***Battelle***

***141 Longwater Drive, Suite 202, Norwell, MA 02061***

*(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2005 “General Requirements for the competence of Testing and Calibration Laboratories” and the DoD Quality Systems Manual for Environmental Laboratories Version 5.1.1 February 2018 and is accredited in accordance with the:*

### **United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)**

***This accreditation demonstrates technical competence for the defined scope:  
Environmental Testing  
(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body’s duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President/Operations Manager

*Initial Accreditation Date:*

November 17, 2016

*Issue Date:*

December 20, 2018

*Expiration Date:*

February 28, 2021

*Revision Date:*

March 27, 2019

*Accreditation No.:*

91667

*Certificate No.:*

L18-588-R2

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: [www.pjlabs.com](http://www.pjlabs.com)*



# Certificate of Accreditation: Supplement

## ISO/IEC 17025:2005 and DoD-ELAP

### Battelle

141 Longwater Drive, Suite 202, Norwell, MA 02061  
 Contact Name: Jonathan Thorn Phone: 781-681-5565

*Accreditation is granted to the facility to perform the following testing:*

| Matrix                 | Standard/Method  | Technology | Analyte  |
|------------------------|--|------------|--|
| Drinking Water         | EPA 537.1  | LC/MS/MS   | 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)      |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Hexafluoropropylene oxide dimer acid (HFPO-DA)                     |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-hexanoic acid (PFHxA)                                  |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-heptanoic Acid (PFHpA)                                 |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-octanoic Acid (PFOA)                                   |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluorononanoic acid (PFNA)                                      |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-decanoic Acid (PFDA)                                   |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-undecanoic acid (PFUnA)                                |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-dodecanoic acid (PFDoA)                                |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-tridecanoic acid (PFTTrDA)                             |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-n-tetradecanoic acid (PFTeDA)                            |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | N-methylperfluoro-1-octanesulfonamidoacetic acid (NMeFOSAA)        |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | N-ethylperfluoro-octanesulfonamidoacetic acid (NEtFOSAA)           |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-1-butanefulfonic Acid (PFBS)                             |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-1-hexanesulfonic Acid (PFHxS)                            |
| Drinking Water         | EPA 537.1  | LC/MS/MS   | Perfluoro-1-octanesulphonic Acid (PFOS)                            |
| Solids/Tissues         | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 3-Perfluoropropyl propanoic Acid (3:3 FTCA)                        |
| Solids/Tissues         | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 3-Perfluoropropyl propanoic acid (5:3 FTCA)                        |
| Solids/Tissues         | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 3-Perfluoropropyl propanoic acid (7:3 FTCA)                        |
| Solids/Tissues         | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-1-octanesulfonamide (PFOSA)                              |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 4,8-dioxa-3H-perfluorononanoic acid (Adona)                        |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    |



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|------------------------|--|------------|---|
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Hexafluoropropylene oxide dimer acid (HFPO-DA)                    |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Sodium perfluoro-1-pentanesulfonate (PFPeS)                       |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-1-nonanesulfonate (PFNS)                                |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-1-heptanesulfonate (PFHpS)                              |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | N-ethylperfluoro-octanesulfonamidoacetic acid (NEtFOSAA)          |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 1H,1H,2H,2H-Perfluorohexane sulfonate (4:2FTS)                    |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 1H,1H,2H,2H-Perfluorooctane sulfonate (6:2FTS)                    |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2FTS)                    |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-butanoic Acid (PFBA)                                  |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-pentanoic acid (PFPeA)                                |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-hexanoic acid (PFHxA)                                 |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-heptanoic Acid (PFHpA)                                |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-octanoic Acid (PFOA)                                  |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluorononanoic acid (PFNA)                                     |



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| Matrix                 | Standard/Method  | Technology | Analyte   |
|------------------------|--|------------|---|
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-decanoic Acid (PFDA)                            |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-undecanoic acid (PFUnA)                         |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-dodecanoic acid (PFDoA)                         |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-tridecanoic acid (PFTTrDA)                      |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-n-tetradecanoic acid (PFTeDA)                     |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | N-methylperfluoro-1-octanesulfonamidoacetic acid (NMeFOSAA) |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-1-butanefulfonic Acid (PFBS)                      |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-1-hexanesulfonic Acid (PFHxS)                     |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-1-octanesulphonic Acid (PFOS)                     |
| Aqueous/Solids/Tissues | PFAS by LCMSMS<br>Compliant with QSM 5.1<br>Table B-15 | LC/MS/MS   | Perfluoro-1-decanesulfonate (PFDS)                          |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,3',4,4'-Hexachlorobiphenyl (BZ 128)                  |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,3',4,5'-Hexachlorobiphenyl (BZ 129)                  |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ 180)               |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,4,4',5',6'-Heptachlorobiphenyl (BZ 183)              |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,4,4',5'-Hexachlorobiphenyl (BZ 138)                  |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,4,4',6,6'-Heptachlorobiphenyl (BZ 184)               |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,4,5,5',6'-Heptachlorobiphenyl (BZ 187)               |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,4,5'-Pentachlorobiphenyl (BZ 87)                     |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',3,5'-Tetrachlorobiphenyl (BZ 44)                       |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',4,4',5,5'-Hexachlorobiphenyl (BZ 153)                  |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',4,5,5'-Pentachlorobiphenyl (BZ 101)                    |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',4,5'-Tetrachlorobiphenyl (BZ 49)                       |
| Aqueous/Solid/Tissue   | EPA 8081 MOD   | GC-ECD     | 2,2',5,5'-Tetrachlorobiphenyl (BZ 52)                       |



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| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,2',5'-Trichlorobiphenyl (BZ 18)                   |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,3,3',4,4'-Pentachlorobiphenyl (BZ 105)            |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,3,3',4',6'-Pentachlorobiphenyl (BZ 110)           |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,3',4,4',5'-Pentachlorobiphenyl (BZ 118)           |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,3',4,4'-Tetrachlorobiphenyl (BZ 66)               |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,4,4'-Trichlorobiphenyl (BZ 28)                    |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,4'-DDD  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,4'-DDE  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,4'-DDT  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 2,4'-Dichlorobiphenyl (BZ 8)                        |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 3,3',4,4',5,5'-Hexachlorobiphenyl (BZ 169)          |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 3,3',4,4',5'-Pentachlorobiphenyl (BZ 126)           |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 3,3',4,4'-Tetrachlorobiphenyl (BZ 77)               |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 4,4'-DDD  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 4,4'-DDE  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | 4,4'-DDT  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Aldrin  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | alpha-BHC (alpha-Hexachlorocyclohexane)             |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | alpha-Chlordane                                     |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | beta-BHC (beta-Hexachlorocyclohexane)               |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Chlorpyrifos  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | cis-Nonachlor                                       |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Decachlorobiphenyl (BZ 209)                         |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | delta-BHC   |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Dieldrin  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Endosulfan II                                       |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Endosulfan I  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Endosulfan sulfate                                  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Endrin  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Endrin aldehyde                                     |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Endrin ketone                                       |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | gamma-BHC<br>(Lindane, gamma-Hexachlorocyclohexane) |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | gamma-Chlordane                                     |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Heptachlor  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Heptachlor epoxide                                  |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Hexachlorobenzene                                   |





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| Matrix               | Standard/Method | Technology | Analyte   |
|----------------------|-----------------|------------|---|
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Methoxychlor                                      |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Mirex   |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | Oxychlorane                                       |
| Aqueous/Solid/Tissue | EPA 8081 MOD    | GC-ECD     | trans-Nonachlor                                   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 1,4-Dichlorobenzene                               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 1-Methylnaphthalene                               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 1-Methylphenanthrene                              |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ 206) |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4',5,5'-Octachlorobiphenyl (BZ 194)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (BZ 207) |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4',5,6-Octachlorobiphenyl (BZ 195)    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ 170)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4',6-Octachlorobiphenyl (BZ 197)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4',6-Heptachlorobiphenyl (BZ 171)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,4'-Hexachlorobiphenyl (BZ 128)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (BZ 208) |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5,5',6-Octachlorobiphenyl (BZ 198)    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5,5',6'-Octachlorobiphenyl (BZ 199)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5,5'-Heptachlorobiphenyl (BZ 172)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5,6,6'-Octachlorobiphenyl (BZ 200)    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5',6,6'-Octachlorobiphenyl (BZ 201)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5,6-Heptachlorobiphenyl (BZ 173)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5,6'-Heptachlorobiphenyl (BZ 174)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5',6-Heptachlorobiphenyl (BZ 175)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5',6'-Heptachlorobiphenyl (BZ 177)    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,5'-Hexachlorobiphenyl (BZ 130)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,6,6'-Heptachlorobiphenyl (BZ 176)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4,6-Hexachlorobiphenyl (BZ 131)         |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',4-Pentachlorobiphenyl (BZ 82)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',5,5',6,6'-Octachlorobiphenyl (BZ 202)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',5,5',6-Heptachlorobiphenyl (BZ 178)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',5,6,6'-Heptachlorobiphenyl (BZ 179)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',5,6-Hexachlorobiphenyl (BZ 134)         |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',5,6'-Hexachlorobiphenyl (BZ 135)        |



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|----------------------|-----------------|------------|--|
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',5-Pentachlorobiphenyl (BZ 83)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',6,6'-Hexachlorobiphenyl (BZ 136)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3',6-Pentachlorobiphenyl (BZ 84)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,3'-Tetrachlorobiphenyl (BZ 40)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',5,5',6-Octachlorobiphenyl (BZ 203) |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ 180)  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ 183)  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',5-Hexachlorobiphenyl (BZ 137)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',5'-Hexachlorobiphenyl (BZ 138)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',6'-Heptachlorobiphenyl (BZ 184)    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',6-Hexachlorobiphenyl (BZ 139)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4',6'-Hexachlorobiphenyl (BZ 140)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,4'-Pentachlorobiphenyl (BZ 85)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5,5',6-Heptachlorobiphenyl (BZ 185)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5,5',6-Heptachlorobiphenyl (BZ 187)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5,5'-Hexachlorobiphenyl (BZ 141)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5,5'-Hexachlorobiphenyl (BZ 146)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5,6,6'-Heptachlorobiphenyl (BZ 188)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5',6-Hexachlorobiphenyl (BZ 149)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5',6-Hexachlorobiphenyl (BZ 144)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5'-Pentachlorobiphenyl (BZ 87)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,5'-Pentachlorobiphenyl (BZ 97)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4,6-Pentachlorobiphenyl (BZ 91)         |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4-Tetrachlorobiphenyl (BZ 41)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,4'-Tetrachlorobiphenyl (BZ 42)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,5,5',6-Hexachlorobiphenyl (BZ 151)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,5,5'-Pentachlorobiphenyl (BZ 92)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,5',6-Pentachlorobiphenyl (BZ 95)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,5-Tetrachlorobiphenyl (BZ 43)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,5'-Tetrachlorobiphenyl (BZ 44)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,6'-Tetrachlorobiphenyl (BZ 46)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3,6-Tetrachlorobiphenyl (BZ 45)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',3-Trichlorobiphenyl (BZ 16)               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,4',5,5'-Hexachlorobiphenyl (BZ 153)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,4',5,6'-Hexachlorobiphenyl (BZ 154)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,4',5-Pentachlorobiphenyl (BZ 99)        |



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Contact Name: Jonathan Thorn Phone: 781-681-5565

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| Matrix               | Standard/Method | Technology | Analyte  |
|----------------------|-----------------|------------|--|
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,4',6,6'-Hexachlorobiphenyl (BZ 155)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,4',6-Pentachlorobiphenyl (BZ 100)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,4'-Tetrachlorobiphenyl (BZ 47)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,5,5'-Pentachlorobiphenyl (BZ 101)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,5-Tetrachlorobiphenyl (BZ 48)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,5'-Tetrachlorobiphenyl (BZ 49)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,6,6'-Pentachlorobiphenyl (BZ 104)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,6'-Tetrachlorobiphenyl (BZ 51)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4,6-Tetrachlorobiphenyl (BZ 50)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',4-Trichlorobiphenyl (BZ 17)               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',5,5'-Tetrachlorobiphenyl (BZ 52)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',5,6'-Tetrachlorobiphenyl (BZ 53)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',5-Trichlorobiphenyl (BZ 18)               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',6,6'-Tetrachlorobiphenyl (BZ 54)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2',6-Trichlorobiphenyl (BZ 19)               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,2'-Dichlorobiphenyl (BZ 4)                   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4',5,5',6-Octachlorobiphenyl (BZ 205) |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4',5,5'-Heptachlorobiphenyl (BZ 189)  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4',5,6-Heptachlorobiphenyl (BZ 190)   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4',5',6-Heptachlorobiphenyl (BZ 191)  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4',5-Hexachlorobiphenyl (BZ 156)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4',5'-Hexachlorobiphenyl (BZ 157)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4',6-Hexachlorobiphenyl (BZ 158)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4,4'-Pentachlorobiphenyl (BZ 105)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4',5,5',6-Heptachlorobiphenyl (BZ 193)  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4',5,6-Hexachlorobiphenyl (BZ 163)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4',5',6-Hexachlorobiphenyl (BZ 164)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4',6-Pentachlorobiphenyl (BZ 110)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,3',4'-Tetrachlorobiphenyl (BZ 56)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4,4',5,5'-Hexachlorobiphenyl (BZ 167)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,4,4',5,6-Hexachlorobiphenyl (BZ 166)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,4,4',5-Pentachlorobiphenyl (BZ 114)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4,4',5-Pentachlorobiphenyl (BZ 118)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4,4',5'-Pentachlorobiphenyl (BZ 123)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,4,4',6-Pentachlorobiphenyl (BZ 115)        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,4,4'-Tetrachlorobiphenyl (BZ 60)           |





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| Matrix               | Standard/Method | Technology | Analyte                                    |
|----------------------|-----------------|------------|--|
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4,4'-Tetrachlorobiphenyl (BZ 66)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4',5,5'-Pentachlorobiphenyl (BZ 124)  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4',5',6-Pentachlorobiphenyl (BZ 125)  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,4',5-Tetrachlorobiphenyl (BZ 63)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4,5-Tetrachlorobiphenyl (BZ 67)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4',5-Tetrachlorobiphenyl (BZ 70)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,4',6-Tetrachlorobiphenyl (BZ 64)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4',6-Tetrachlorobiphenyl (BZ 71)      |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,4'-Trichlorobiphenyl (BZ 22)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4-Trichlorobiphenyl (BZ 25)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',4'-Trichlorobiphenyl (BZ 33)          |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',5-Trichlorobiphenyl (BZ 26)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,5-Trimethylnaphthalene                 |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3,6-Trichlorobiphenyl (BZ 24)            |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3',6-Trichlorobiphenyl (BZ 27)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3-Dichlorobiphenyl (BZ 5)                |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,3'-Dichlorobiphenyl (BZ 6)               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4,4',5-Tetrachlorobiphenyl (BZ 74)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4,4',6-Tetrachlorobiphenyl (BZ 75)       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4,4'-Trichlorobiphenyl (BZ 28)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4,5-Trichlorobiphenyl (BZ 29)            |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4',5-Trichlorobiphenyl (BZ 31)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4,6-Trichlorobiphenyl (BZ 30)            |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4',6-Trichlorobiphenyl (BZ 32)           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4'-DDD                                   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4'-DDE                                   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4'-DDT                                   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4-Dichlorobiphenyl (BZ 7)                |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,4'-Dichlorobiphenyl (BZ 8)               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,5-Dichlorobiphenyl (BZ 9)                |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2,6-Dimethylnaphthalene                    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2-Chlorobiphenyl (BZ 1)                    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2-Chloronaphthalene                        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2-Methylnaphthalene                        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 2-Methylphenanthrene                       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,3',4,4',5,5'-Hexachlorobiphenyl (BZ 169) |



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| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,3',4,4',5-Pentachlorobiphenyl (BZ 126) |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,3',4,4'-Tetrachlorobiphenyl (BZ 77)    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,3',4,5,5'-Pentachlorobiphenyl (BZ 127) |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,3',5,5'-Tetrachlorobiphenyl (BZ 80)    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,3'-Dichlorobiphenyl (BZ 11)            |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,4,4',5-Tetrachlorobiphenyl (BZ 81)     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,4,4'-Trichlorobiphenyl (BZ 37)         |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,4-Dichlorobiphenyl (BZ 12)             |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,4'-Dichlorobiphenyl (BZ 13)            |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 3,6-Dimethylphenanthrene                 |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 4,4'-Dichlorobiphenyl (BZ 15)            |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | 4-Chlorobiphenyl (BZ 3)                  |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Acenaphthene                             |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Acenaphthylene                           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Anthracene                               |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Benzo(a)anthracene                       |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Benzo(a)pyrene                           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Benzo(b)fluoranthene                     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Benzo(b)thiophene                        |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Benzo(e)pyrene                           |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Benzo(g,h,i)perylene                     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Benzo(k)fluoranthene                     |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Biphenyl                                 |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Chrysene                                 |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | cis-Decalin                              |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Decachlorobiphenyl (BZ 209)              |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Dibenz(a,h)anthracene                    |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Dibenzofuran                             |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Dibenzothiophene                         |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Fluoranthene                             |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Fluorene                                 |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Indeno(1,2,3-cd)pyrene                   |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Naphthalene                              |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Perylene                                 |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Phenanthrene                             |
| Aqueous/Solid/Tissue | EPA 8270D MOD   | GC-MS      | Pyrene                                   |



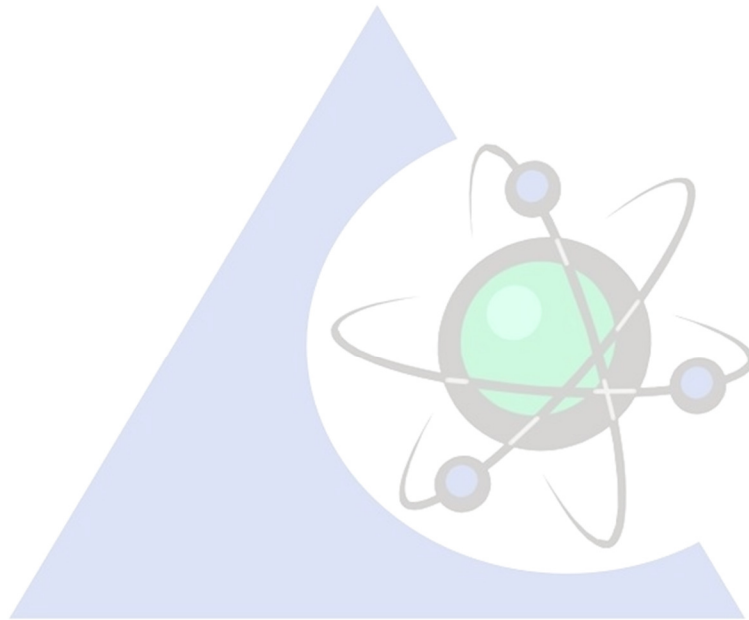
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**Battelle**

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|----------------------|------------------------|-------------------|----------------|
| Aqueous/Solid/Tissue | EPA 8270D MOD          | GC-MS             | trans-Decalin  |





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|---------------|------------------------|-------------------------------------|----------------|
| Aqueous       | EPA 3510 C             | Separatory Funnel                   | Prep           |
| Aqueous       | EPA 3640A MOD          | Gel-permeation chromatography (GPC) | Cleanup        |
| Aqueous       | EPA 3660B MOD          | Sulfur Cleanup                      | Cleanup        |
| Solid         | EPA 3640A MOD          | Gel-permeation chromatography (GPC) | Cleanup        |
| Solid         | EPA 3660B MOD          | Sulfur Cleanup                      | Cleanup        |
| Solid         | NOAA NOS ORCA 71       | Orbital Shaker                      | Prep           |
| Tissue        | EPA 3640A MOD          | Gel-permeation chromatography (GPC) | Cleanup        |
| Tissue        | EPA 3660B MOD          | Sulfur Cleanup                      | Cleanup        |
| Tissue        | NOAA NOS ORCA 71       | Tissuemizer                         | Prep           |

