



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3508

**Laboratory Name:** ALS Environmental (Burlington)

**Parent Institution:** ALS Canada Ltd.

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**Standard:** Conforms with requirements of ISO/IEC 17025:2017

**Clients Served:**

**Revised On:** September 8, 2021

**Valid To:** June 21, 2023

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### Scope of Accreditation

#### Air (Inorganic)

Anions and Cations - Air [Stack Emission] (016)

BU-TM-1005; modified from CTM-027 and EPA 0050 and EPA 0051 and EPA 26 and EPA 26A and EPA 6 and EPA 7A and EPA 7D and EPA 8 and EPA 9056 and EPA 9057

ION CHROMATOGRAPHY (IC)

Ammonia (NH<sub>3</sub>)

Bromine (Br<sub>2</sub>)

Chlorine

Hydrogen Bromide (HBr)

Hydrogen Chloride (HCl)

Hydrogen Fluoride (HF)

NO<sub>x</sub>

SO<sub>x</sub>

#### Air (Inorganic)

Mercury - Air (004)

BU-TM-1001, BU-TP-2001; modified from ASTM D6784-02 and EPA 0060 and EPA 101A and EPA 29 and EPA 7470

COLD VAPOUR ATOMIC ABSORPTION (CVAA)

Mercury

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**Air (Inorganic)**

Metals - Air (005)

BU-TM-1010, BU-TP-2001; modified from EPA 0060 and EPA 29 and EPA 6020

ICP/MS

Antimony

Arsenic

Barium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Nickel

Phosphorus

Selenium

Silver

Thallium

Vanadium

Zinc

**Air (Inorganic)**

Particulates - Air [Particulate] (039)

BU-TM-1008; modified from EPA 5 and EPA IO-3.1

GRAVIMETRIC

Particulates

**Air (Organic)**

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Air (020)

BU-TM-1109, BU-TP-2109; modified from EPA 1614A

GC/HRMS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)

Decabromodiphenyl ethane

Hexabromobenzene (HBB)

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 105 (2,3,3',4,4'-Pentabromodiphenyl ether)

PBDE 11 (3,3'-Dibromodiphenyl ether)

PBDE 116 (2,3,4,5,6-Pentabromodiphenyl ether)

PBDE 118 (2,3',4,4',5-Pentabromodiphenyl ether)

PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

PBDE 12 (3,4-Dibromodiphenyl ether)

PBDE 120 (2,3',4,5,5'-Pentabromodiphenyl ether)

PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)

PBDE 128 (2,2',3,3',4,4'-Hexabromodiphenyl ether)

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PBDE 13 (3,4'-Dibromodiphenyl ether)  
PBDE 138 (2,2',3,4,4',5'-Hexabromodiphenyl ether)  
PBDE 140 (2,2',3,4,4',6'-Hexabromodiphenyl ether)  
PBDE 15 (4,4'-Dibromodiphenyl ether)  
PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)  
PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)  
PBDE 155 (2,2',4,4',6,6'-Hexabromodiphenyl ether)  
PBDE 166 (2,3,4,4',5,6-Hexabromodiphenyl ether)  
PBDE 17 (2,2',4-Tribromodiphenyl ether)  
PBDE 181 (2,2',3,4,4',5,6-Heptabromodiphenyl ether)  
PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
PBDE 190 (2,3,3',4,4',5,6-Heptabromodiphenyl ether)  
PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 25 (2,3',4-Tribromodiphenyl ether)  
PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
PBDE 30 (2,4,6-Tribromodiphenyl ether)  
PBDE 32 (2,4',6-Tribromodiphenyl ether)  
PBDE 33 (2',3,4-Tribromodiphenyl ether)  
PBDE 35 (3,3',4-Tribromodiphenyl ether)  
PBDE 37 (3,4,4'-Tribromodiphenyl ether)  
PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
PBDE 51 (2,2',4,6'-Tetrabromodiphenyl ether)  
PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 7 (2,4-Dibromodiphenyl ether)  
PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
PBDE 75 (2,4,4',6-Tetrabromodiphenyl ether)  
PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 79 (3,3',4,5'-Tetrabromodiphenyl ether)  
PBDE 8 (2,4'-Dibromodiphenyl ether)  
PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
Pentabromoethylbenzene (PBEB)

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## Air (Organic)

Dioxins and Furans (PCDD/PCDF) - Air (001)

BU-TM-1107, BU-TM-1110; modified from EPA 0023A and EPA 1613B and EPA 23 and EPA 8290A and EPA TO-9A

GC/HRMS

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)

1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)

1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)

1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)

1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)

1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)

1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)

1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)

2,3,4,6,7,8-HxCDF

2,3,4,7,8-PeCDF

2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)

2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)

Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)

Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)

Total Heptachlorodibenzo-p-dioxins (Total HpCDD)

Total Heptachlorodibenzofurans (Total HpCDF)

Total Hexachlorodibenzo-p-dioxins (Total HxCDD)

Total Hexachlorodibenzofurans (Total HxCDF)

Total Pentachlorodibenzo-p-dioxins (Total PeCDD)

Total Pentachlorodibenzofurans (Total PeCDF)

Total Tetrachlorodibenzo-p-dioxins (Total TCDD)

Total Tetrachlorodibenzofurans (Total TCDF)

## Air (Organic)

Polychlorinated Biphenyls (PCB) - Air (036)

BU-TM-1105; modified from EPA 1668A and EPA 1668C

GC/HRMS

PCB 1 (2-Chlorobiphenyl)

PCB 10 (2,6-Dichlorobiphenyl)

PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)

PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)

PCB 102 (2,2',4,5,6'-Pentachlorobiphenyl)

PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)

PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)

PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)

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PCB 107 (2,3,3',4',5-Pentachlorobiphenyl)  
PCB 108 (2,3,3',4,5'-Pentachlorobiphenyl)  
PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)  
PCB 11 (3,3'-Dichlorobiphenyl)  
PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)  
PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
PCB 112 (2,3,3',5,6-Pentachlorobiphenyl)  
PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)  
PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
PCB 115 (2,3,4,4',6-Pentachlorobiphenyl)  
PCB 116 (2,3,4,5,6-Pentachlorobiphenyl)  
PCB 117 (2,3,4',5,6-Pentachlorobiphenyl)  
PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
PCB 119 (2,3',4,4',6-Pentachlorobiphenyl)  
PCB 12 (3,4-Dichlorobiphenyl)  
PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
PCB 121 (2,3',4,5',6-Pentachlorobiphenyl)  
PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
PCB 125 (2,3',4',5',6-Pentachlorobiphenyl)  
PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
PCB 127 (3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 128 (2,2',3,3',4,4'-Pentachlorobiphenyl)  
PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
PCB 13 (3,4'-Dichlorobiphenyl)  
PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
PCB 131 (2,2',3,3',4,6-Hexachlorobiphenyl)  
PCB 132 (2,2',3,3',4,6'-Hexachlorobiphenyl)  
PCB 133 (2,2',3,3',5,5'-Hexachlorobiphenyl)  
PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
PCB 136 (2,2',3,3',6,6'-Hexachlorobiphenyl)  
PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
PCB 139 (2,2',3,4,4',6-Hexachlorobiphenyl)  
PCB 14 (3,5-Dichlorobiphenyl)  
PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)

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PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
PCB 144 (2,2',3,4,5',6'-Hexachlorobiphenyl)  
PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
PCB 147 (2,2',3,4',5,6'-Hexachlorobiphenyl)  
PCB 148 (2,2',3,4',5,6'-Hexachlorobiphenyl)  
PCB 149 (2,2',3,4',5',6'-Hexachlorobiphenyl)  
PCB 15 (4,4'-Dichlorobiphenyl)  
PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
PCB 151 (2,2',3,5,5',6'-Hexachlorobiphenyl)  
PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
PCB 156 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 158 (2,3,3',4,4',6'-Hexachlorobiphenyl)  
PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
PCB 16 (2,2',3-Trichlorobiphenyl)  
PCB 160 (2,3,3',4,5,6'-Hexachlorobiphenyl)  
PCB 161 (2,3,3',4,5',6'-Hexachlorobiphenyl)  
PCB 162 (2,3,3',4',5,5'-Hexachlorobiphenyl)  
PCB 163 (2,3,3',4',5,6'-Hexachlorobiphenyl)  
PCB 164 (2,3,3',4',5',6'-Hexachlorobiphenyl)  
PCB 165 (2,3,3',5,5',6'-Hexachlorobiphenyl)  
PCB 166 (2,3,4,4',5,6'-Hexachlorobiphenyl)  
PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 168 (2,3',4,4',5',6'-Hexachlorobiphenyl)  
PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 17 (2,2',4-Trichlorobiphenyl)  
PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
PCB 18 (2,2',5-Trichlorobiphenyl)

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PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
PCB 182 (2,2',3,4,4',5,6'-Heptachlorobiphenyl)  
PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)  
PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
PCB 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl)  
PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
PCB 19 (2,2',6-Trichlorobiphenyl)  
PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 2 (3-Chlorobiphenyl)  
PCB 20 (2,3,3'-Trichlorobiphenyl)  
PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 23 (2,3,5-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)

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PCB 29 (2,4,5-Trichlorobiphenyl)  
PCB 3 (4-Chlorobiphenyl)  
PCB 30 (2,4,6-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 33 (2,3',4'-Trichlorobiphenyl)  
PCB 34 (2,3',5'-Trichlorobiphenyl)  
PCB 35 (3,3',4-Trichlorobiphenyl)  
PCB 36 (3,3',5-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 38 (3,4,5-Trichlorobiphenyl)  
PCB 39 (3,4',5-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)  
PCB 48 (2,2',4,5-Tetrachlorobiphenyl)  
PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5 (2,3-Dichlorobiphenyl)  
PCB 50 (2,2',4,6-Tetrachlorobiphenyl)  
PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
PCB 55 (2,3,3',4-Tetrachlorobiphenyl)  
PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 57 (2,3,3',5-Tetrachlorobiphenyl)  
PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 59 (2,3,3',6-Tetrachlorobiphenyl)  
PCB 6 (2,3'-Dichlorobiphenyl)  
PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
PCB 62 (2,3,4,6-Tetrachlorobiphenyl)  
PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
PCB 64 (2,3,4',6-Tetrachlorobiphenyl)  
PCB 65 (2,3,5,6-Tetrachlorobiphenyl)

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PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
PCB 67 (2,3',4,5-Tetrachlorobiphenyl)  
PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 69 (2,3',4,6-Tetrachlorobiphenyl)  
PCB 7 (2,4-Dichlorobiphenyl)  
PCB 70 (2,3',4',5-Tetrachlorobiphenyl)  
PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
PCB 72 (2,3',5,5'-Tetrachlorobiphenyl)  
PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
PCB 75 (2,4,4',6-Tetrachlorobiphenyl)  
PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
PCB 78 (3,3',4,5-Tetrachlorobiphenyl)  
PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
PCB 8 (2,4'-Dichlorobiphenyl)  
PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
PCB 84 (2,2',3,3',6-Pentachlorobiphenyl)  
PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
PCB 86 (2,2',3,4,5-Pentachlorobiphenyl)  
PCB 87 (2,2',3,4,5'-Pentachlorobiphenyl)  
PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
PCB 9 (2,5-Dichlorobiphenyl)  
PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
PCB 93 (2,2',3,5,6-Pentachlorobiphenyl)  
PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
PCB 97 (2,2',3,4',5'-Pentachlorobiphenyl)  
PCB 98 (2,2',3,4',6'-Pentachlorobiphenyl)  
PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)

#### **Air (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Air (013)

BU-TM-1100, BU-TP-2100; modified from CARB 429 and EPA 3540C and EPA 8270E

GC/MS - EXTRACTION

Acenaphthene

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Acenaphthylene  
Anthracene  
Benzo (a) anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Chrysene  
Dibenzo(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Phenanthrene  
Pyrene

**Air (Organic)**

Volatile Organic Compounds (VOC) - Air (007)

BU-TM-1114; modified from EPA 5041A and EPA 8260B and EPA 8260C

GC/MS-PURGE AND TRAP

1,1-Dichloroethane  
1,1-Dichloroethene  
1,1,1-Trichloroethane  
1,1,2-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,2-Dichloroethane  
1,2-Dichloropropane  
1,2,3-Trichloropropane  
2-Butanone (Methyl ethyl ketone, MEK)  
4-Methyl-2-pentanone (MIBK)  
Acetone (2-Propanone)  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chlorodibromomethane  
Chloroethane (Ethyl Chloride)  
Chloroethene (Vinyl chloride)  
Chloroform  
Chloromethane (Methyl chloride)

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cis-1,2-Dichloroethylene  
cis-1,3-Dichloropropene  
Dibromomethane  
Dichloromethane (Methylene Chloride)  
Ethylbenzene  
Hexanone  
Iodomethane  
m,p-Xylene  
o-Xylene  
Styrene  
Tetrachloroethylene  
Toluene  
trans-1,2-Dichloroethylene  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane

**Biological Oil (Inorganic)**

Mercury - Biological Oil (047)  
BU-TM-1001, BU-TP-2010; EPA 3052 and EPA 7470  
COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION  
Mercury

**Biological Oil (Inorganic)**

Metals - Biological Oil (046)  
BU-TM-1010, BU-TP-2010; EPA 3052 and EPA 6020B  
ICP/MS  
Arsenic  
Cadmium  
Lead

**Food (Organic)**

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Food [Butter, Dairy, Fat, Grains, Milled Grain Product, Nut Butter, Vegetable Oil] (034)  
BU-TM-1109; modified from EPA 1614A  
GC/HRMS  
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)  
Decabromodiphenyl ethane  
Hexabromobenzene (HBB)  
PBDE 10 (2,6-Dibromodiphenyl ether)  
PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)  
PBDE 105 (2,3,3',4,4'-Pentabromodiphenyl ether)  
PBDE 11 (3,3'-Dibromodiphenyl ether)  
PBDE 116 (2,3,4,5,6-Pentabromodiphenyl ether)  
PBDE 118 (2,3',4,4',5-Pentabromodiphenyl ether)  
PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

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PBDE 12 (3,4-Dibromodiphenyl ether)  
PBDE 120 (2,3',4,5,5'-Pentabromodiphenyl ether)  
PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)  
PBDE 128 (2,2',3,3',4,4'-Hexabromodiphenyl ether)  
PBDE 13 (3,4'-Dibromodiphenyl ether)  
PBDE 138 (2,2',3,4,4',5'-Hexabromodiphenyl ether)  
PBDE 140 (2,2',3,4,4',6'-Hexabromodiphenyl ether)  
PBDE 15 (4,4'-Dibromodiphenyl ether)  
PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)  
PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)  
PBDE 155 (2,2',4,4',6,6'-Hexabromodiphenyl ether)  
PBDE 166 (2,3,4,4',5,6-Hexabromodiphenyl ether)  
PBDE 17 (2,2',4-Tribromodiphenyl ether)  
PBDE 181 (2,2',3,4,4',5,6-Heptabromodiphenyl ether)  
PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
PBDE 190 (2,3,3',4,4',5,6-Heptabromodiphenyl ether)  
PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 25 (2,3',4-Tribromodiphenyl ether)  
PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
PBDE 30 (2,4,6-Tribromodiphenyl ether)  
PBDE 32 (2,4',6-Tribromodiphenyl ether)  
PBDE 33 (2',3,4-Tribromodiphenyl ether)  
PBDE 35 (3,3',4-Tribromodiphenyl ether)  
PBDE 37 (3,4,4'-Tribromodiphenyl ether)  
PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
PBDE 51 (2,2',4,6'-Tetrabromodiphenyl ether)  
PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 7 (2,4-Dibromodiphenyl ether)  
PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
PBDE 75 (2,4,4',6-Tetrabromodiphenyl ether)  
PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 79 (3,3',4,5'-Tetrabromodiphenyl ether)  
PBDE 8 (2,4'-Dibromodiphenyl ether)  
PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
Pentabromoethylbenzene (PBEB)

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**Food (Organic)**

Polyaromatic Hydrocarbons (PAH) - Food [Beverage, Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat] (023)

BU-TM-1100, BU-TP-2100; modified from CARB 429 and EPA 3510C

GC/HRMS - EXTRACTION

1-Methylnaphthalene

2-Methylnaphthalene

Acenaphthene

Acenaphthylene

Anthracene

Benzo (a) anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3-cd)pyrene

Naphthalene

Perylene

Phenanthrene

Pyrene

**Food (Organic)**

Polychlorinated Biphenyls (PCB) Congeners - Food [Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat, Vegetables] (025)

BU-TM-1105, BU-TM-1110; modified from EPA 1668

GC/HRMS

PCB 1 (2-Chlorobiphenyl)

PCB 10 (2,6-Dichlorobiphenyl)

PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)

PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)

PCB 102 (2,2',4,5,6'-Pentachlorobiphenyl)

PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)

PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)

PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)

PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)

PCB 107 (2,3,3',4',5-Pentachlorobiphenyl)

PCB 108 (2,3,3',4,5'-Pentachlorobiphenyl)

PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)

PCB 11 (3,3'-Dichlorobiphenyl)

PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)

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PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
PCB 112 (2,3,3',5,6-Pentachlorobiphenyl)  
PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)  
PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
PCB 115 (2,3,4,4',6-Pentachlorobiphenyl)  
PCB 116 (2,3,4,5,6-Pentachlorobiphenyl)  
PCB 117 (2,3,4',5,6-Pentachlorobiphenyl)  
PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
PCB 119 (2,3',4,4',6-Pentachlorobiphenyl)  
PCB 12 (3,4-Dichlorobiphenyl)  
PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
PCB 121 (2,3',4,5',6-Pentachlorobiphenyl)  
PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
PCB 125 (2,3',4',5',6-Pentachlorobiphenyl)  
PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
PCB 127 (3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 128 (2,2',3,3',4,4'-Pentachlorobiphenyl)  
PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
PCB 13 (3,4'-Dichlorobiphenyl)  
PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
PCB 131 (2,2',3,3',4,6-Hexachlorobiphenyl)  
PCB 132 (2,2',3,3',4,6'-Hexachlorobiphenyl)  
PCB 133 (2,2',3,3',5,5'-Hexachlorobiphenyl)  
PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
PCB 136 (2,2',3,3',6,6'-Hexachlorobiphenyl)  
PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
PCB 139 (2,2',3,4,4',6-Hexachlorobiphenyl)  
PCB 14 (3,5-Dichlorobiphenyl)  
PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
PCB 148 (2,2',3,4',5,6'-Hexachlorobiphenyl)

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PCB 149 (2,2',3,4',5',6-Hexachlorobiphenyl)  
PCB 15 (4,4'-Dichlorobiphenyl)  
PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
PCB 16 (2,2',3-Trichlorobiphenyl)  
PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
PCB 161 (2,3,3',4,5',6-Hexachlorobiphenyl)  
PCB 162 (2,3,3',4',5,5'-Hexachlorobiphenyl)  
PCB 163 (2,3,3',4',5,6-Hexachlorobiphenyl)  
PCB 164 (2,3,3',4',5',6-Hexachlorobiphenyl)  
PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 17 (2,2',4-Trichlorobiphenyl)  
PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
PCB 18 (2,2',5-Trichlorobiphenyl)  
PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
PCB 182 (2,2',3,4,4',5,6'-Heptachlorobiphenyl)  
PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)

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PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
PCB 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl)  
PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
PCB 19 (2,2',6-Trichlorobiphenyl)  
PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 2 (3-Chlorobiphenyl)  
PCB 20 (2,3,3'-Trichlorobiphenyl)  
PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 23 (2,3,5-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)  
PCB 29 (2,4,5-Trichlorobiphenyl)  
PCB 3 (4-Chlorobiphenyl)  
PCB 30 (2,4,6-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 33 (2,3',4'-Trichlorobiphenyl)

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PCB 34 (2,3',5'-Trichlorobiphenyl)  
PCB 35 (3,3',4-Trichlorobiphenyl)  
PCB 36 (3,3',5-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 38 (3,4,5-Trichlorobiphenyl)  
PCB 39 (3,4',5-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)  
PCB 48 (2,2',4,5-Tetrachlorobiphenyl)  
PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5 (2,3-Dichlorobiphenyl)  
PCB 50 (2,2',4,6-Tetrachlorobiphenyl)  
PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
PCB 55 (2,3,3',4-Tetrachlorobiphenyl)  
PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 57 (2,3,3',5-Tetrachlorobiphenyl)  
PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 59 (2,3,3',6-Tetrachlorobiphenyl)  
PCB 6 (2,3'-Dichlorobiphenyl)  
PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
PCB 62 (2,3,4,6-Tetrachlorobiphenyl)  
PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
PCB 64 (2,3,4',6-Tetrachlorobiphenyl)  
PCB 65 (2,3,5,6-Tetrachlorobiphenyl)  
PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
PCB 67 (2,3',4,5-Tetrachlorobiphenyl)  
PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 69 (2,3',4,6-Tetrachlorobiphenyl)  
PCB 7 (2,4-Dichlorobiphenyl)  
PCB 70 (2,3',4',5-Tetrachlorobiphenyl)

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PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
PCB 72 (2,3',5,5'-Tetrachlorobiphenyl)  
PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
PCB 75 (2,4,4',6-Tetrachlorobiphenyl)  
PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
PCB 78 (3,3',4,5-Tetrachlorobiphenyl)  
PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
PCB 8 (2,4'-Dichlorobiphenyl)  
PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
PCB 84 (2,2',3,3',6-Pentachlorobiphenyl)  
PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
PCB 86 (2,2',3,4,5-Pentachlorobiphenyl)  
PCB 87 (2,2',3,4,5'-Pentachlorobiphenyl)  
PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
PCB 9 (2,5-Dichlorobiphenyl)  
PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
PCB 93 (2,2',3,5,6-Pentachlorobiphenyl)  
PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
PCB 97 (2,2',3,4',5'-Pentachlorobiphenyl)  
PCB 98 (2,2',3,4',6'-Pentachlorobiphenyl)  
PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)

### **Food (Organic)**

Polychlorinated Dioxins and Polychlorinated Furans and Selected PCB Congeners (PCDD/PCDF) - Food [Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat, Vegetables] (026)

BU-TM-1107, BU-TM-1110, BU-TM-1113, BU-TP-2113; modified from EPA 1613B and EPA 1668A and EPA 1668C

#### GC/HRMS

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)

1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)

1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)

1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)

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1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)  
 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
 2,3,4,6,7,8-HxCDF  
 2,3,4,7,8-PeCDF  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
 2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
 Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
 Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
 PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)  
 PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
 PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
 PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
 PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
 PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
 PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
 PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
 PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
 PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
 PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
 PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
 Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
 Total Heptachlorodibenzofurans (Total HpCDF)  
 Total Hexachlorodibenzo-p-dioxins (Total HxCDD)  
 Total Hexachlorodibenzofurans (Total HxCDF)  
 Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
 Total Pentachlorodibenzofurans (Total PeCDF)  
 Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
 Total Tetrachlorodibenzofurans (Total TCDF)

### Food (Organic)

Polychlorinated Dioxins and Polychlorinated Furans and Selected PCB Congeners (PCDD/PCDF) - Food [Cereal, Dairy, Edible Meat Offal, Edible Oil, Egg, Fish, Fresh Fruit, Meat, Vegetables] (048)

BU-TM-1119, BU-TP-2119; modified from EPA 1613B and EPA 1668A and EPA 1668C

GC/MS/MS

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)

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1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)  
 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
 2,3,4,6,7,8-HxCDF  
 2,3,4,7,8-PeCDF  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
 2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
 Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
 Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
 PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)  
 PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)  
 PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
 PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
 PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
 PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
 PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
 PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
 PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
 PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
 PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
 PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
 PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
 PCB 28 (2,4,4'-Trichlorobiphenyl)  
 PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
 PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
 PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
 Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
 Total Heptachlorodibenzofurans (Total HpCDF)  
 Total Hexachlorodibenzo-p-dioxins (Total HxCDD)  
 Total Hexachlorodibenzofurans (Total HxCDF)  
 Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
 Total Pentachlorodibenzofurans (Total PeCDF)  
 Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
 Total Tetrachlorodibenzofurans (Total TCDF)

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**Solids (Inorganic)**

Mercury - Solids [Sediment, Soil] (029)

BU-TM-1001; modified from EPA 7471A

COLD VAPOUR ATOMIC ABSORPTION (CVAA) - DIGESTION

Mercury

**Solids (Inorganic)**

Metals - Solids [Minerals, Sediment, Soil] (028)

BU-TM-1010, NA-TP-2004; modified from EPA 3052 (PREPARATION) and EPA 6020 (ANALYSIS)

ICP/MS - DIGESTION

Arsenic

Cadmium

Lead

**Solids (Inorganic)**

Moisture - Solids (035)

BU-TM-1200; modified from CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

GRAVIMETRIC

Percent Moisture

**Solids (Organic)**

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Solids [Sediment, Soil] (018)

BU-TM-1109, BU-TP-2109; modified from EPA 1614A

GC/HRMS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)

Decabromodiphenyl ethane

Hexabromobenzene (HBB)

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 105 (2,3,3',4,4'-Pentabromodiphenyl ether)

PBDE 11 (3,3'-Dibromodiphenyl ether)

PBDE 116 (2,3,4,5,6-Pentabromodiphenyl ether)

PBDE 118 (2,3',4,4',5-Pentabromodiphenyl ether)

PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

PBDE 12 (3,4-Dibromodiphenyl ether)

PBDE 120 (2,3',4,5,5'-Pentabromodiphenyl ether)

PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)

PBDE 128 (2,2',3,3',4,4'-Hexabromodiphenyl ether)

PBDE 13 (3,4'-Dibromodiphenyl ether)

PBDE 138 (2,2',3,4,4',5'-Hexabromodiphenyl ether)

PBDE 140 (2,2',3,4,4',6'-Hexabromodiphenyl ether)

PBDE 15 (4,4'-Dibromodiphenyl ether)

PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)

PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)

PBDE 155 (2,2',4,4',6,6'-Hexabromodiphenyl ether)

PBDE 166 (2,3,4,4',5,6-Hexabromodiphenyl ether)

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PBDE 17 (2,2',4-Tribromodiphenyl ether)  
 PBDE 181 (2,2',3,4,4',5,6-Heptabromodiphenyl ether)  
 PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
 PBDE 190 (2,3,3',4,4',5,6-Heptabromodiphenyl ether)  
 PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
 PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
 PBDE 207 (2,2',3,3',4,4',5,5',6,6'-Nonabromodiphenyl ether)  
 PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
 PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
 PBDE 25 (2,3',4-Tribromodiphenyl ether)  
 PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
 PBDE 30 (2,4,6-Tribromodiphenyl ether)  
 PBDE 32 (2,4',6-Tribromodiphenyl ether)  
 PBDE 33 (2',3,4-Tribromodiphenyl ether)  
 PBDE 35 (3,3',4-Tribromodiphenyl ether)  
 PBDE 37 (3,4,4'-Tribromodiphenyl ether)  
 PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
 PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
 PBDE 51 (2,2',4,6'-Tetrabromodiphenyl ether)  
 PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
 PBDE 7 (2,4-Dibromodiphenyl ether)  
 PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
 PBDE 75 (2,4,4',6-Tetrabromodiphenyl ether)  
 PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
 PBDE 79 (3,3',4,5'-Tetrabromodiphenyl ether)  
 PBDE 8 (2,4'-Dibromodiphenyl ether)  
 PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
 PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
 Pentabromoethylbenzene (PBEB)

### Solids (Organic)

Dioxins and Furans (PCDD/PCDF) - Solids [Soil] (002)

BU-TM-1107, BU-TM-1110; modified from EPA 1613B and EPA 8290A  
GC/HRMS

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)  
 1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)  
 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)

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1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
2,3,4,6,7,8-HxCDF  
2,3,4,7,8-PeCDF  
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
Total Heptachlorodibenzofurans (Total HpCDF)  
Total Hexachlorodibenzo-p-dioxins (Total HxCDD)  
Total Hexachlorodibenzofurans (Total HxCDF)  
Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
Total Pentachlorodibenzofurans (Total PeCDF)  
Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
Total Tetrachlorodibenzofurans (Total TCDF)

#### **Solids (Organic)**

Nitrosamines - Solids (011)  
BU-TM-1106, BU-TP-2106; modified from ON MOECC E3388  
GC/HRMS  
N-Nitrosodimethylamine (NDMA)

#### **Solids (Organic)**

Organochlorine (OC) Pesticides - Solids (024)  
BU-TM-1103, BU-TP-2103; modified from EPA 1699  
GC/HRMS - EXTRACTION  
1,2,3,4-Tetrachlorobenzene (1,2,3,4-TCB)  
1,2,4,5-Tetrachlorobenzene (1,2,4,5-TCB)  
2,4'-DDD (o,p'-DDD)  
2,4'-DDE (o,p'-DDE)  
2,4'-DDT (o,p'-DDT)  
4,4'-DDD (p,p'-DDD)  
4,4'-DDE (p,p'-DDE)  
4,4'-DDT (p,p'-DDT)  
Aldrin  
alpha-BHC  
alpha-Chlordane  
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)  
cis-Nonachlor  
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)  
Dieldrin  
Endosulfan I (a-Endosulfan)  
Endosulfan II (b-Endosulfan)

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Endosulfan Sulfate  
Endrin  
gamma-Chlordane  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Lindane (gamma-BHC)  
Methoxychlor  
Mirex  
Octachlorostyrene  
Oxychlordane  
Pentachlorobenzene  
Toxaphene 26 (Parlar 26)  
Toxaphene 50 (Parlar 50)  
Toxaphene 62 (Parlar 62)  
trans-Nonachlor

**Solids (Organic)**

Polychlorinated Biphenyls (PCB) Congeners - Solids [Sediment, Soil] (015)  
BU-TM-1105, BU-TM-1110; modified from EPA 1668A and EPA 1668C

GC/HRMS

PCB 1 (2-Chlorobiphenyl)  
PCB 10 (2,6-Dichlorobiphenyl)  
PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)  
PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)  
PCB 102 (2,2',4,5,6'-Pentachlorobiphenyl)  
PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)  
PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)  
PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)  
PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)  
PCB 107 (2,3,3',4',5-Pentachlorobiphenyl)  
PCB 108 (2,3,3',4,5'-Pentachlorobiphenyl)  
PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)  
PCB 11 (3,3'-Dichlorobiphenyl)  
PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)  
PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
PCB 112 (2,3,3',5,6-Pentachlorobiphenyl)  
PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)  
PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
PCB 115 (2,3,4,4',6-Pentachlorobiphenyl)  
PCB 116 (2,3,4,5,6-Pentachlorobiphenyl)  
PCB 117 (2,3,4',5,6-Pentachlorobiphenyl)  
PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)

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PCB 119 (2,3',4,4',6-Pentachlorobiphenyl)  
PCB 12 (3,4-Dichlorobiphenyl)  
PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
PCB 121 (2,3',4,5',6-Pentachlorobiphenyl)  
PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
PCB 125 (2,3',4',5',6-Pentachlorobiphenyl)  
PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
PCB 127 (3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 128 (2,2',3,3',4,4'-Pentachlorobiphenyl)  
PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
PCB 13 (3,4'-Dichlorobiphenyl)  
PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
PCB 131 (2,2',3,3',4,6-Hexachlorobiphenyl)  
PCB 132 (2,2',3,3',4,6'-Hexachlorobiphenyl)  
PCB 133 (2,2',3,3',5,5'-Hexachlorobiphenyl)  
PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
PCB 136 (2,2',3,3',6,6'-Hexachlorobiphenyl)  
PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
PCB 139 (2,2',3,4,4',6-Hexachlorobiphenyl)  
PCB 14 (3,5-Dichlorobiphenyl)  
PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
PCB 148 (2,2',3,4',5,6'-Hexachlorobiphenyl)  
PCB 149 (2,2',3,4',5',6-Hexachlorobiphenyl)  
PCB 15 (4,4'-Dichlorobiphenyl)  
PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)

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PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
PCB 16 (2,2',3-Trichlorobiphenyl)  
PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
PCB 161 (2,3,3',4,5',6-Hexachlorobiphenyl)  
PCB 162 (2,3,3',4',5,5'-Hexachlorobiphenyl)  
PCB 163 (2,3,3',4',5,6-Hexachlorobiphenyl)  
PCB 164 (2,3,3',4',5',6-Hexachlorobiphenyl)  
PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 17 (2,2',4-Trichlorobiphenyl)  
PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
PCB 18 (2,2',5-Trichlorobiphenyl)  
PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
PCB 182 (2,2',3,4,4',5,6'-Heptachlorobiphenyl)  
PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)  
PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
PCB 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl)  
PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
PCB 19 (2,2',6-Trichlorobiphenyl)  
PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)

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PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 2 (3-Chlorobiphenyl)  
PCB 20 (2,3,3'-Trichlorobiphenyl)  
PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 23 (2,3,5-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)  
PCB 29 (2,4,5-Trichlorobiphenyl)  
PCB 3 (4-Chlorobiphenyl)  
PCB 30 (2,4,6-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 33 (2,3',4'-Trichlorobiphenyl)  
PCB 34 (2,3',5'-Trichlorobiphenyl)  
PCB 35 (3,3',4-Trichlorobiphenyl)  
PCB 36 (3,3',5-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 38 (3,4,5-Trichlorobiphenyl)  
PCB 39 (3,4',5-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)

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PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)  
PCB 48 (2,2',4,5-Tetrachlorobiphenyl)  
PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5 (2,3-Dichlorobiphenyl)  
PCB 50 (2,2',4,6-Tetrachlorobiphenyl)  
PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
PCB 55 (2,3,3',4-Tetrachlorobiphenyl)  
PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 57 (2,3,3',5-Tetrachlorobiphenyl)  
PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 59 (2,3,3',6-Tetrachlorobiphenyl)  
PCB 6 (2,3'-Dichlorobiphenyl)  
PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
PCB 62 (2,3,4,6-Tetrachlorobiphenyl)  
PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
PCB 64 (2,3,4',6-Tetrachlorobiphenyl)  
PCB 65 (2,3,5,6-Tetrachlorobiphenyl)  
PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
PCB 67 (2,3',4,5-Tetrachlorobiphenyl)  
PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 69 (2,3',4,6-Tetrachlorobiphenyl)  
PCB 7 (2,4-Dichlorobiphenyl)  
PCB 70 (2,3',4',5-Tetrachlorobiphenyl)  
PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
PCB 72 (2,3',5,5'-Tetrachlorobiphenyl)  
PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
PCB 75 (2,4,4',6-Tetrachlorobiphenyl)  
PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
PCB 78 (3,3',4,5-Tetrachlorobiphenyl)

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PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
PCB 8 (2,4'-Dichlorobiphenyl)  
PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
PCB 84 (2,2',3,3',6-Pentachlorobiphenyl)  
PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
PCB 86 (2,2',3,4,5-Pentachlorobiphenyl)  
PCB 87 (2,2',3,4,5'-Pentachlorobiphenyl)  
PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
PCB 9 (2,5-Dichlorobiphenyl)  
PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
PCB 93 (2,2',3,5,6-Pentachlorobiphenyl)  
PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
PCB 97 (2,2',3,4',5'-Pentachlorobiphenyl)  
PCB 98 (2,2',3,4',6'-Pentachlorobiphenyl)  
PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)

**Solids (Organic)**

Polychlorinated Naphthalenes (PCN) - Solids (022)

BU-TM-1102, BU-TM-1110; modified from EPA 1613B and EPA 8290A and ON MOECC E3431  
GC/HRMS

Dichlorinated Naphthalenes  
Heptachlorinated Naphthalenes  
Hexachlorinated Naphthalenes  
Monochlorinated Naphthalenes  
Octachlorinated Naphthalenes  
Total Pentachloronaphthalenes (Total PeCN)  
Total Tetrachloronaphthalenes (Total TeCN)  
Trichlorinated Naphthalenes

**Solids (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - Solids (009)

BU-TM-1100, BU-TP-2100; modified from CARB 429 and EPA 3540C  
GC/MS

Acenaphthene  
Acenaphthylene  
Anthracene

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Benzo(a)anthracene  
Benzo(a)pyrene  
Benzo(b)fluoranthene  
Benzo(g,h,i)perylene  
Benzo(k)fluoranthene  
Chrysene  
Dibenzo(a,h)anthracene  
Fluoranthene  
Fluorene  
Indeno(1,2,3-cd)pyrene  
Naphthalene  
Phenanthrene  
Pyrene

**SPMD (Extract analysis only) (Organic)**

Organochlorine (OC) Pesticides - SPMD (045)  
BU-TM-1103 OC PESTICIDES; modified from EPA 1699

HRGC/MS  
2,4'-DDD (o,p'-DDD)  
2,4'-DDE (o,p'-DDE)  
2,4'-DDT (o,p'-DDT)  
4,4'-DDD (p,p'-DDD)  
4,4'-DDE (p,p'-DDE)  
4,4'-DDT (p,p'-DDT)  
alpha-BHC  
alpha-Chlordane  
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)  
cis-Heptachlor Epoxide  
cis-Nonachlor  
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)  
Dieldrin  
Endosulfan I (a-Endosulfan)  
Endosulfan II (b-Endosulfan)  
Endosulfan Sulfate  
Endrin  
gamma-Chlordane  
Hexachlorobenzene  
Lindane (gamma-BHC)  
Methoxychlor  
Mirex  
Octachlorostyrene  
Oxychlordane  
Toxaphene 26 (Parlar 26)

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Toxaphene 50 (Parlar 50)  
Toxaphene 62 (Parlar 62)  
trans-Heptachlor epoxide  
trans-Nonachlor

**SPMD (Extract analysis only) (Organic)**

Polycyclic Aromatic Hydrocarbons (PAH) - SPMD (044)

BU-TM-1100 ANALYSIS OF PAH; modified from CARB 429 and SM 3540 C

HRGC/MS

Acenaphthene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo(a,h)anthracene

Fluoranthene

Fluorene

Indeno(1,2,3-cd)pyrene

Naphthalene

Phenanthrene

Pyrene

**SPMD (Extracts only) (Organic)**

Brominated Diphenyl Ethers (BDE) - SPMD (043)

BU-TM-1109 BDPE; modified from EPA 1614A

HRGC/MS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)

Decabromodiphenyl ethane

Hexabromobenzene (HBB)

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 105 (2,3,3',4,4'-Pentabromodiphenyl ether)

PBDE 11 (3,3'-Dibromodiphenyl ether)

PBDE 116 (2,3,4,5,6-Pentabromodiphenyl ether)

PBDE 118 (2,3',4,4',5-Pentabromodiphenyl ether)

PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

PBDE 12 (3,4-Dibromodiphenyl ether)

PBDE 120 (2,3',4,5,5'-Pentabromodiphenyl ether)

PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)

PBDE 128 (2,2',3,3',4,4'-Hexabromodiphenyl ether)

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PBDE 13 (3,4'-Dibromodiphenyl ether)  
PBDE 138 (2,2',3,4,4',5'-Hexabromodiphenyl ether)  
PBDE 140 (2,2',3,4,4',6'-Hexabromodiphenyl ether)  
PBDE 15 (4,4'-Dibromodiphenyl ether)  
PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)  
PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)  
PBDE 155 (2,2',4,4',6,6'-Hexabromodiphenyl ether)  
PBDE 166 (2,3,4,4',5,6-Hexabromodiphenyl ether)  
PBDE 17 (2,2',4-Tribromodiphenyl ether)  
PBDE 181 (2,2',3,4,4',5,6-Heptabromodiphenyl ether)  
PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
PBDE 190 (2,3,3',4,4',5,6-Heptabromodiphenyl ether)  
PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 25 (2,3',4-Tribromodiphenyl ether)  
PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
PBDE 30 (2,4,6-Tribromodiphenyl ether)  
PBDE 32 (2,4',6-Tribromodiphenyl ether)  
PBDE 33 (2',3,4-Tribromodiphenyl ether)  
PBDE 35 (3,3',4-Tribromodiphenyl ether)  
PBDE 37 (3,4,4'-Tribromodiphenyl ether)  
PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
PBDE 51 (2,2',4,6'-Tetrabromodiphenyl ether)  
PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 7 (2,4-Dibromodiphenyl ether)  
PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
PBDE 75 (2,4,4',6-Tetrabromodiphenyl ether)  
PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 79 (3,3',4,5'-Tetrabromodiphenyl ether)  
PBDE 8 (2,4'-Dibromodiphenyl ether)  
PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
Pentabromoethylbenzene (PBEB)

**SPMD (Extracts only) (Organic)**

Dioxins and Furans (PCDD/PCDF) - SPMD (040)

BU-TM-1107 PCDD\_F; modified from EPA 1613B

GC/HRMS

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)

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1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)  
 1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)  
 1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
 2,3,4,6,7,8-HxCDF  
 2,3,4,7,8-PeCDF  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
 2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
 Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
 Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
 Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
 Total Heptachlorodibenzofurans (Total HpCDF)  
 Total Hexachlorodibenzo-p-dioxins (Total HxCDD)  
 Total Hexachlorodibenzofurans (Total HxCDF)  
 Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
 Total Pentachlorodibenzofurans (Total PeCDF)  
 Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
 Total Tetrachlorodibenzofurans (Total TCDF)

**SPMD (Extracts only) (Organic)**

Polychlorinated Biphenyls (PCB) Congeners - SPMD (042)

BU-TM-1105 PCB Congeners; modified from EPA 1668

HRGC/MS

PCB 1 (2-Chlorobiphenyl)  
 PCB 10 (2,6-Dichlorobiphenyl)  
 PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)  
 PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)  
 PCB 102 (2,2',4,5,6'-Pentachlorobiphenyl)  
 PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)  
 PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)  
 PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)  
 PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)  
 PCB 107 (2,3,3',4',5-Pentachlorobiphenyl)  
 PCB 108 (2,3,3',4,5'-Pentachlorobiphenyl)  
 PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)  
 PCB 11 (3,3'-Dichlorobiphenyl)  
 PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)

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PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
PCB 112 (2,3,3',5,6-Pentachlorobiphenyl)  
PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)  
PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
PCB 115 (2,3,4,4',6-Pentachlorobiphenyl)  
PCB 116 (2,3,4,5,6-Pentachlorobiphenyl)  
PCB 117 (2,3,4',5,6-Pentachlorobiphenyl)  
PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
PCB 119 (2,3',4,4',6-Pentachlorobiphenyl)  
PCB 12 (3,4-Dichlorobiphenyl)  
PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
PCB 121 (2,3',4,5',6-Pentachlorobiphenyl)  
PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
PCB 125 (2,3',4',5',6-Pentachlorobiphenyl)  
PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
PCB 127 (3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 128 (2,2',3,3',4,4'-Pentachlorobiphenyl)  
PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
PCB 13 (3,4'-Dichlorobiphenyl)  
PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
PCB 131 (2,2',3,3',4,6-Hexachlorobiphenyl)  
PCB 132 (2,2',3,3',4,6'-Hexachlorobiphenyl)  
PCB 133 (2,2',3,3',5,5'-Hexachlorobiphenyl)  
PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
PCB 136 (2,2',3,3',6,6'-Hexachlorobiphenyl)  
PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
PCB 139 (2,2',3,4,4',6-Hexachlorobiphenyl)  
PCB 14 (3,5-Dichlorobiphenyl)  
PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
PCB 148 (2,2',3,4',5,6'-Hexachlorobiphenyl)

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PCB 149 (2,2',3,4',5',6-Hexachlorobiphenyl)  
PCB 15 (4,4'-Dichlorobiphenyl)  
PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
PCB 16 (2,2',3-Trichlorobiphenyl)  
PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
PCB 161 (2,3,3',4,5',6-Hexachlorobiphenyl)  
PCB 162 (2,3,3',4',5,5'-Hexachlorobiphenyl)  
PCB 163 (2,3,3',4',5,6-Hexachlorobiphenyl)  
PCB 164 (2,3,3',4',5',6-Hexachlorobiphenyl)  
PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 17 (2,2',4-Trichlorobiphenyl)  
PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
PCB 18 (2,2',5-Trichlorobiphenyl)  
PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
PCB 182 (2,2',3,4,4',5,6'-Heptachlorobiphenyl)  
PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)

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PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
PCB 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl)  
PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
PCB 19 (2,2',6-Trichlorobiphenyl)  
PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 2 (3-Chlorobiphenyl)  
PCB 20 (2,3,3'-Trichlorobiphenyl)  
PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 23 (2,3,5-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)  
PCB 29 (2,4,5-Trichlorobiphenyl)  
PCB 3 (4-Chlorobiphenyl)  
PCB 30 (2,4,6-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 33 (2,3',4'-Trichlorobiphenyl)

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PCB 34 (2,3',5'-Trichlorobiphenyl)  
PCB 35 (3,3',4-Trichlorobiphenyl)  
PCB 36 (3,3',5-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 38 (3,4,5-Trichlorobiphenyl)  
PCB 39 (3,4',5-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)  
PCB 48 (2,2',4,5-Tetrachlorobiphenyl)  
PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5 (2,3-Dichlorobiphenyl)  
PCB 50 (2,2',4,6-Tetrachlorobiphenyl)  
PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
PCB 55 (2,3,3',4-Tetrachlorobiphenyl)  
PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 57 (2,3,3',5-Tetrachlorobiphenyl)  
PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 59 (2,3,3',6-Tetrachlorobiphenyl)  
PCB 6 (2,3'-Dichlorobiphenyl)  
PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
PCB 62 (2,3,4,6-Tetrachlorobiphenyl)  
PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
PCB 64 (2,3,4',6-Tetrachlorobiphenyl)  
PCB 65 (2,3,5,6-Tetrachlorobiphenyl)  
PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
PCB 67 (2,3',4,5-Tetrachlorobiphenyl)  
PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 69 (2,3',4,6-Tetrachlorobiphenyl)  
PCB 7 (2,4-Dichlorobiphenyl)  
PCB 70 (2,3',4',5-Tetrachlorobiphenyl)

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PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
PCB 72 (2,3',5,5'-Tetrachlorobiphenyl)  
PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
PCB 75 (2,4,4',6-Tetrachlorobiphenyl)  
PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
PCB 78 (3,3',4,5-Tetrachlorobiphenyl)  
PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
PCB 8 (2,4'-Dichlorobiphenyl)  
PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
PCB 84 (2,2',3,3',6-Pentachlorobiphenyl)  
PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
PCB 86 (2,2',3,4,5-Pentachlorobiphenyl)  
PCB 87 (2,2',3,4,5'-Pentachlorobiphenyl)  
PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
PCB 9 (2,5-Dichlorobiphenyl)  
PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
PCB 93 (2,2',3,5,6-Pentachlorobiphenyl)  
PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
PCB 97 (2,2',3,4',5'-Pentachlorobiphenyl)  
PCB 98 (2,2',3,4',6'-Pentachlorobiphenyl)  
PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)

### **Tissue (Organic)**

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Tissue (019)

BU-TM-1109, BU-TP-2109; modified from EPA 1614A

GC/HRMS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)

Decabromodiphenyl ethane

Hexabromobenzene (HBB)

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 105 (2,3,3',4,4'-Pentabromodiphenyl ether)

PBDE 11 (3,3'-Dibromodiphenyl ether)

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PBDE 116 (2,3,4,5,6-Pentabromodiphenyl ether)  
PBDE 118 (2,3',4,4',5-Pentabromodiphenyl ether)  
PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)  
PBDE 12 (3,4-Dibromodiphenyl ether)  
PBDE 120 (2,3',4,5,5'-Pentabromodiphenyl ether)  
PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)  
PBDE 128 (2,2',3,3',4,4'-Hexabromodiphenyl ether)  
PBDE 13 (3,4'-Dibromodiphenyl ether)  
PBDE 138 (2,2',3,4,4',5'-Hexabromodiphenyl ether)  
PBDE 140 (2,2',3,4,4',6'-Hexabromodiphenyl ether)  
PBDE 15 (4,4'-Dibromodiphenyl ether)  
PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether)  
PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)  
PBDE 155 (2,2',4,4',6,6'-Hexabromodiphenyl ether)  
PBDE 166 (2,3,4,4',5,6-Hexabromodiphenyl ether)  
PBDE 17 (2,2',4-Tribromodiphenyl ether)  
PBDE 181 (2,2',3,4,4',5,6-Heptabromodiphenyl ether)  
PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
PBDE 190 (2,3,3',4,4',5,6-Heptabromodiphenyl ether)  
PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
PBDE 25 (2,3',4-Tribromodiphenyl ether)  
PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
PBDE 30 (2,4,6-Tribromodiphenyl ether)  
PBDE 32 (2,4',6-Tribromodiphenyl ether)  
PBDE 33 (2',3,4-Tribromodiphenyl ether)  
PBDE 35 (3,3',4-Tribromodiphenyl ether)  
PBDE 37 (3,4,4'-Tribromodiphenyl ether)  
PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
PBDE 51 (2,2',4,6'-Tetrabromodiphenyl ether)  
PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 7 (2,4-Dibromodiphenyl ether)  
PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
PBDE 75 (2,4,4',6-Tetrabromodiphenyl ether)  
PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
PBDE 79 (3,3',4,5'-Tetrabromodiphenyl ether)  
PBDE 8 (2,4'-Dibromodiphenyl ether)

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PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether)  
Pentabromoethylbenzene (PBEB)

### **Tissue (Organic)**

Dioxins and Furans (PCDD/PCDF) - Tissue (014)

BU-TM-1107, BU-TM-1110; modified from EPA 1613B and EPA 8290A

GC/HRMS

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)  
1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)  
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)  
1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)  
1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)  
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)  
1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)  
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
2,3,4,6,7,8-HxCDF  
2,3,4,7,8-PeCDF  
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
Total Heptachlorodibenzofurans (Total HpCDF)  
Total Hexachlorodibenzo-p-dioxins (Total HxCDD)  
Total Hexachlorodibenzofurans (Total HxCDF)  
Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
Total Pentachlorodibenzofurans (Total PeCDF)  
Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
Total Tetrachlorodibenzofurans (Total TCDF)

### **Tissue (Organic)**

Organochlorine (OC) Pesticides - Tissue (033)

BU-TM-1103, BU-TP-2103; modified from EPA 1699

GC/HRMS

2,4'-DDD (o,p'-DDD)  
2,4'-DDE (o,p'-DDE)  
2,4'-DDT (o,p'-DDT)  
4,4'-DDD (p,p'-DDD)  
4,4'-DDE (p,p'-DDE)  
4,4'-DDT (p,p'-DDT)

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alpha-BHC  
alpha-Chlordane  
beta-HCH (beta-Hexachlorocyclohexane (b-HCH, b-BHC, beta-BHC, beta-Hexachlorocyclohexane)  
cis-Heptachlor Epoxide  
cis-Nonachlor  
delta-HCH (d-HCH, d-BHC, delta-BHC, delta-Hexachlorocyclohexane)  
Dieldrin  
Endosulfan I (a-Endosulfan)  
Endosulfan II (b-Endosulfan)  
Endosulfan Sulfate  
Endrin  
gamma-Chlordane  
Hexachlorobenzene  
Lindane (gamma-BHC)  
Methoxychlor  
Mirex  
Octachlorostyrene  
Oxychlordane  
Toxaphene 26 (Parlar 26)  
Toxaphene 50 (Parlar 50)  
Toxaphene 62 (Parlar 62)  
trans-Heptachlor epoxide  
trans-Nonachlor

#### **Tissue (Organic)**

Polychlorinated Biphenyls (PCB) - Tissue (032)  
BU-TM-1120; EPA 680

GC/MS

PCB 10 (2,6-Dichlorobiphenyl)  
PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)  
PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)  
PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)  
PCB 107 (2,3,3',4',5-Pentachlorobiphenyl)  
PCB 108 (2,3,3',4,5'-Pentachlorobiphenyl)  
PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)  
PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)  
PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
PCB 115 (2,3,4,4',6-Pentachlorobiphenyl)  
PCB 116 (2,3,4,5,6-Pentachlorobiphenyl)  
PCB 117 (2,3,4',5,6-Pentachlorobiphenyl)  
PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
PCB 12 (3,4-Dichlorobiphenyl)

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PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
PCB 121 (2,3',4,5',6-Pentachlorobiphenyl)  
PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
PCB 125 (2,3',4',5',6-Pentachlorobiphenyl)  
PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
PCB 127 (3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 128 (2,2',3,3',4,4'-Pentachlorobiphenyl)  
PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
PCB 13 (3,4'-Dichlorobiphenyl)  
PCB 131 (2,2',3,3',4,6-Hexachlorobiphenyl)  
PCB 132 (2,2',3,3',4,6'-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
PCB 139 (2,2',3,4,4',6-Hexachlorobiphenyl)  
PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
PCB 149 (2,2',3,4',5',6-Hexachlorobiphenyl)  
PCB 15 (4,4'-Dichlorobiphenyl)  
PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
PCB 16 (2,2',3-Trichlorobiphenyl)  
PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
PCB 163 (2,3,3',4',5,6-Hexachlorobiphenyl)  
PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 17 (2,2',4-Trichlorobiphenyl)  
PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
PCB 18 (2,2',5-Trichlorobiphenyl)

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PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
PCB 182 (2,2',3,4,4',5,6'-Heptachlorobiphenyl)  
PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
PCB 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl)  
PCB 19 (2,2',6-Trichlorobiphenyl)  
PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 20 (2,3,3'-Trichlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 33 (2,3',4'-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)  
PCB 48 (2,2',4,5-Tetrachlorobiphenyl)

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PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5 (2,3-Dichlorobiphenyl)  
PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 59 (2,3,3',6-Tetrachlorobiphenyl)  
PCB 6 (2,3'-Dichlorobiphenyl)  
PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
PCB 64 (2,3,4',6-Tetrachlorobiphenyl)  
PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 7 (2,4-Dichlorobiphenyl)  
PCB 70 (2,3',4',5-Tetrachlorobiphenyl)  
PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
PCB 75 (2,4,4',6-Tetrachlorobiphenyl)  
PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
PCB 8 (2,4'-Dichlorobiphenyl)  
PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
PCB 84 (2,2',3,3',6-Pentachlorobiphenyl)  
PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
PCB 86 (2,2',3,4,5-Pentachlorobiphenyl)  
PCB 87 (2,2',3,4,5'-Pentachlorobiphenyl)  
PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
PCB 9 (2,5-Dichlorobiphenyl)  
PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
PCB 93 (2,2',3,5,6-Pentachlorobiphenyl)  
PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
PCB 97 (2,2',3,4',5'-Pentachlorobiphenyl)  
PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)

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## Tissue (Organic)

Polychlorinated Biphenyls (PCB) Congeners - Tissue (041)

BU-TM-1105 PCB Congeners; modified from EPA 1668

HRGC/MS

PCB 1 (2-Chlorobiphenyl)

PCB 10 (2,6-Dichlorobiphenyl)

PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)

PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)

PCB 102 (2,2',4,5,6'-Pentachlorobiphenyl)

PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)

PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)

PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)

PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)

PCB 107 (2,3,3',4',5-Pentachlorobiphenyl)

PCB 108 (2,3,3',4,5'-Pentachlorobiphenyl)

PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)

PCB 11 (3,3'-Dichlorobiphenyl)

PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)

PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)

PCB 112 (2,3,3',5,6-Pentachlorobiphenyl)

PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)

PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)

PCB 115 (2,3,4,4',6-Pentachlorobiphenyl)

PCB 116 (2,3,4,5,6-Pentachlorobiphenyl)

PCB 117 (2,3,4',5,6-Pentachlorobiphenyl)

PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)

PCB 119 (2,3',4,4',6-Pentachlorobiphenyl)

PCB 12 (3,4-Dichlorobiphenyl)

PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)

PCB 121 (2,3',4,5',6-Pentachlorobiphenyl)

PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)

PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)

PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)

PCB 125 (2,3',4',5',6-Pentachlorobiphenyl)

PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)

PCB 127 (3,3',4,5,5'-Pentachlorobiphenyl)

PCB 128 (2,2',3,3',4,4'-Pentachlorobiphenyl)

PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)

PCB 13 (3,4'-Dichlorobiphenyl)

PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)

PCB 131 (2,2',3,3',4,6-Hexachlorobiphenyl)

PCB 132 (2,2',3,3',4,6'-Hexachlorobiphenyl)

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PCB 133 (2,2',3,3',5,5'-Hexachlorobiphenyl)  
PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
PCB 136 (2,2',3,3',6,6'-Hexachlorobiphenyl)  
PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
PCB 139 (2,2',3,4,4',6-Hexachlorobiphenyl)  
PCB 14 (3,5-Dichlorobiphenyl)  
PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
PCB 148 (2,2',3,4',5,6'-Hexachlorobiphenyl)  
PCB 149 (2,2',3,4',5',6-Hexachlorobiphenyl)  
PCB 15 (4,4'-Dichlorobiphenyl)  
PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
PCB 16 (2,2',3-Trichlorobiphenyl)  
PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
PCB 161 (2,3,3',4,5',6-Hexachlorobiphenyl)  
PCB 162 (2,3,3',4',5,5'-Hexachlorobiphenyl)  
PCB 163 (2,3,3',4',5,6-Hexachlorobiphenyl)  
PCB 164 (2,3,3',4',5',6-Hexachlorobiphenyl)  
PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 17 (2,2',4-Trichlorobiphenyl)

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PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
PCB 18 (2,2',5-Trichlorobiphenyl)  
PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
PCB 182 (2,2',3,4,4',5,6'-Heptachlorobiphenyl)  
PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)  
PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
PCB 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl)  
PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
PCB 19 (2,2',6-Trichlorobiphenyl)  
PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 2 (3-Chlorobiphenyl)  
PCB 20 (2,3,3'-Trichlorobiphenyl)  
PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)

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PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 23 (2,3,5-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)  
PCB 29 (2,4,5-Trichlorobiphenyl)  
PCB 3 (4-Chlorobiphenyl)  
PCB 30 (2,4,6-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 33 (2,3',4'-Trichlorobiphenyl)  
PCB 34 (2,3',5'-Trichlorobiphenyl)  
PCB 35 (3,3',4-Trichlorobiphenyl)  
PCB 36 (3,3',5-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 38 (3,4,5-Trichlorobiphenyl)  
PCB 39 (3,4',5-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
PCB 41 (2,2',3,4-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)  
PCB 48 (2,2',4,5-Tetrachlorobiphenyl)  
PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5 (2,3-Dichlorobiphenyl)  
PCB 50 (2,2',4,6-Tetrachlorobiphenyl)  
PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
PCB 55 (2,3,3',4-Tetrachlorobiphenyl)

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PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 57 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 59 (2,3,3',6'-Tetrachlorobiphenyl)  
PCB 6 (2,3'-Dichlorobiphenyl)  
PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
PCB 61 (2,3,4,5-Tetrachlorobiphenyl)  
PCB 62 (2,3,4,6-Tetrachlorobiphenyl)  
PCB 63 (2,3,4',5-Tetrachlorobiphenyl)  
PCB 64 (2,3,4',6-Tetrachlorobiphenyl)  
PCB 65 (2,3,5,6-Tetrachlorobiphenyl)  
PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
PCB 67 (2,3',4,5-Tetrachlorobiphenyl)  
PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 69 (2,3',4,6-Tetrachlorobiphenyl)  
PCB 7 (2,4-Dichlorobiphenyl)  
PCB 70 (2,3',4',5-Tetrachlorobiphenyl)  
PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
PCB 72 (2,3',5,5'-Tetrachlorobiphenyl)  
PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
PCB 75 (2,4,4',6-Tetrachlorobiphenyl)  
PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
PCB 78 (3,3',4,5-Tetrachlorobiphenyl)  
PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
PCB 8 (2,4'-Dichlorobiphenyl)  
PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
PCB 84 (2,2',3,3',6-Pentachlorobiphenyl)  
PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
PCB 86 (2,2',3,4,5-Pentachlorobiphenyl)  
PCB 87 (2,2',3,4,5'-Pentachlorobiphenyl)  
PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
PCB 9 (2,5-Dichlorobiphenyl)  
PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)

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PCB 93 (2,2',3,5,6-Pentachlorobiphenyl)  
PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
PCB 97 (2,2',3,4',5'-Pentachlorobiphenyl)  
PCB 98 (2,2',3,4',6'-Pentachlorobiphenyl)  
PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)

### **Tissue (Organic)**

Polychlorinated Naphthalenes (PCN) - Tissue (027)

BU-TM-1102, BU-TM-1110; modified from EPA 1613B and EPA 8290A and ON MOECC E3431

GC/HRMS

Dichlorinated Naphthalenes

Heptachlorinated Naphthalenes

Hexachlorinated Naphthalenes

Monochlorinated Naphthalenes

Octachlorinated Naphthalenes

Total Pentachloronaphthalenes (Total PeCN)

Total Tetrachloronaphthalenes (Total TeCN)

Trichlorinated Naphthalenes

### **Water (Organic)**

Brominated Diphenyl Ethers (BDE) and Related Fire Retardants - Water (017)

BU-TM-1109, BU-TM-1110; modified from EPA 1614A

GC/HRMS

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)

Decabromodiphenyl ethane

Hexabromobenzene (HBB)

PBDE 10 (2,6-Dibromodiphenyl ether)

PBDE 100 (2,2',4,4',6-Pentabromodiphenyl ether)

PBDE 105 (2,3,3',4,4'-Pentabromodiphenyl ether)

PBDE 11 (3,3'-Dibromodiphenyl ether)

PBDE 116 (2,3,4,5,6-Pentabromodiphenyl ether)

PBDE 118 (2,3',4,4',5-Pentabromodiphenyl ether)

PBDE 119 (2,3',4,4',6-Pentabromodiphenyl ether)

PBDE 12 (3,4-Dibromodiphenyl ether)

PBDE 120 (2,3',4,5,5'-Pentabromodiphenyl ether)

PBDE 126 (3,3',4,4',5-Pentabromodiphenyl ether)

PBDE 128 (2,2',3,3',4,4'-Hexabromodiphenyl ether)

PBDE 13 (3,4'-Dibromodiphenyl ether)

PBDE 138 (2,2',3,4,4',5'-Hexabromodiphenyl ether)

PBDE 140 (2,2',3,4,4',6'-Hexabromodiphenyl ether)

PBDE 15 (4,4'-Dibromodiphenyl ether)

PBDE 153 (2,2',4,4',5,5'-Hexabromodiphenyl ether) (Paciphenyl ether) (on 8/5/2021))

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PBDE 154 (2,2',4,4',5,6'-Hexabromodiphenyl ether)  
 PBDE 155 (2,2',4,4',6,6'-Hexabromodiphenyl ether)  
 PBDE 166 (2,3,4,4',5,6-Hexabromodiphenyl ether)  
 PBDE 17 (2,2',4-Tribromodiphenyl ether)  
 PBDE 181 (2,2',3,4,4',5,6-Heptabromodiphenyl ether)  
 PBDE 183 (2,2',3,4,4',5',6-Heptabromodiphenyl ether)  
 PBDE 190 (2,3,3',4,4',5,6-Heptabromodiphenyl ether)  
 PBDE 203 (2,2',3,4,4',5,5',6-Octabromodiphenyl ether)  
 PBDE 206 (2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether)  
 PBDE 207 (2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether)  
 PBDE 208 (2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether)  
 PBDE 209 (2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether)  
 PBDE 25 (2,3',4-Tribromodiphenyl ether)  
 PBDE 28 (2,4,4'-Tribromodiphenyl ether)  
 PBDE 30 (2,4,6-Tribromodiphenyl ether)  
 PBDE 32 (2,4',6-Tribromodiphenyl ether)  
 PBDE 33 (2',3,4-Tribromodiphenyl ether)  
 PBDE 35 (3,3',4-Tribromodiphenyl ether)  
 PBDE 37 (3,4,4'-Tribromodiphenyl ether)  
 PBDE 47 (2,2',4,4'-Tetrabromodiphenyl ether)  
 PBDE 49 (2,2',4,5'-Tetrabromodiphenyl ether)  
 PBDE 51 (2,2',4,6'-Tetrabromodiphenyl ether)  
 PBDE 66 (2,3',4,4'-Tetrabromodiphenyl ether)  
 PBDE 7 (2,4-Dibromodiphenyl ether)  
 PBDE 71 (2,3',4',6-Tetrabromodiphenyl ether)  
 PBDE 75 (2,4,4',6-Tetrabromodiphenyl ether)  
 PBDE 77 (3,3',4,4'-Tetrabromodiphenyl ether)  
 PBDE 79 (3,3',4,5'-Tetrabromodiphenyl ether)  
 PBDE 8 (2,4'-Dibromodiphenyl ether)  
 PBDE 85 (2,2',3,4,4'-Pentabromodiphenyl ether)  
 PBDE 99 (2,2',4,4',5-Pentabromodiphenyl ether) (Discontinued on 8/5/2021))  
 Pentabromoethylbenzene (PBEB)

**Water (Organic)**

OSDWA †

Dioxins and Furans (PCDD/PCDF) - Water (003)  
 BU-TM-1107, BU-TM-1110; modified from EPA 1613B and EPA 8290A  
 GC/HRMS

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)  
 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)  
 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)  
 1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)  
 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)  
 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)

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1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)  
 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)  
 1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)  
 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)  
 1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)  
 2,3,4,6,7,8-HxCDF  
 2,3,4,7,8-PeCDF  
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)  
 2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)  
 Octachlorodibenzo-p-dioxin (OCDD, 1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin)  
 Octachlorodibenzofuran (OCDF, 1,2,3,4,6,7,8,9-Octachlorodibenzofuran)  
 Total Heptachlorodibenzo-p-dioxins (Total HpCDD)  
 Total Heptachlorodibenzofurans (Total HpCDF)  
 Total Hexachlorodibenzo-p-dioxins (Total HxCDD)  
 Total Hexachlorodibenzofurans (Total HxCDF)  
 Total Pentachlorodibenzo-p-dioxins (Total PeCDD)  
 Total Pentachlorodibenzofurans (Total PeCDF)  
 Total Tetrachlorodibenzo-p-dioxins (Total TCDD)  
 Total Tetrachlorodibenzofurans (Total TCDF)

**Water (Organic)**

OSDWA †

Nitrosamines - Water (012)

BU-TM-1106, BU-TP-2106; modified from ON MOECC E3388

GC/HRMS

N-Nitrosodimethylamine (NDMA)

**Water (Organic)**

Polychlorinated Biphenyls (PCB) - Water (037)

BU-TM-1105; modified from EPA 1668A and EPA 1668C

GC/HRMS

PCB 1 (2-Chlorobiphenyl)

PCB 10 (2,6-Dichlorobiphenyl)

PCB 100 (2,2',4,4',6-Pentachlorobiphenyl)

PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)

PCB 102 (2,2',4,5,6'-Pentachlorobiphenyl)

PCB 103 (2,2',4,5',6-Pentachlorobiphenyl)

PCB 104 (2,2',4,6,6'-Pentachlorobiphenyl)

PCB 105 (2,3,3',4,4'-Pentachlorobiphenyl)

PCB 106 (2,3,3',4,5-Pentachlorobiphenyl)

PCB 107 (2,3,3',4',5-Pentachlorobiphenyl)

PCB 108 (2,3,3',4,5'-Pentachlorobiphenyl)

PCB 109 (2,3,3',4,6-Pentachlorobiphenyl)

PCB 11 (3,3'-Dichlorobiphenyl)

PCB 110 (2,3,3',4',6-Pentachlorobiphenyl)

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PCB 111 (2,3,3',5,5'-Pentachlorobiphenyl)  
PCB 112 (2,3,3',5,6-Pentachlorobiphenyl)  
PCB 113 (2,3,3',5',6-Pentachlorobiphenyl)  
PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)  
PCB 115 (2,3,4,4',6-Pentachlorobiphenyl)  
PCB 116 (2,3,4,5,6-Pentachlorobiphenyl)  
PCB 117 (2,3,4',5,6-Pentachlorobiphenyl)  
PCB 118 (2,3',4,4',5-Pentachlorobiphenyl)  
PCB 119 (2,3',4,4',6-Pentachlorobiphenyl)  
PCB 12 (3,4-Dichlorobiphenyl)  
PCB 120 (2,3',4,5,5'-Pentachlorobiphenyl)  
PCB 121 (2,3',4,5',6-Pentachlorobiphenyl)  
PCB 122 (2,3,3',4',5'-Pentachlorobiphenyl)  
PCB 123 (2,3',4,4',5'-Pentachlorobiphenyl)  
PCB 124 (2,3',4',5,5'-Pentachlorobiphenyl)  
PCB 125 (2,3',4',5',6-Pentachlorobiphenyl)  
PCB 126 (3,3',4,4',5-Pentachlorobiphenyl)  
PCB 127 (3,3',4,5,5'-Pentachlorobiphenyl)  
PCB 128 (2,2',3,3',4,4'-Pentachlorobiphenyl)  
PCB 129 (2,2',3,3',4,5-Hexachlorobiphenyl)  
PCB 13 (3,4'-Dichlorobiphenyl)  
PCB 130 (2,2',3,3',4,5'-Hexachlorobiphenyl)  
PCB 131 (2,2',3,3',4,6-Hexachlorobiphenyl)  
PCB 132 (2,2',3,3',4,6'-Hexachlorobiphenyl)  
PCB 133 (2,2',3,3',5,5'-Hexachlorobiphenyl)  
PCB 134 (2,2',3,3',5,6-Hexachlorobiphenyl)  
PCB 135 (2,2',3,3',5,6'-Hexachlorobiphenyl)  
PCB 136 (2,2',3,3',6,6'-Hexachlorobiphenyl)  
PCB 137 (2,2',3,4,4',5-Hexachlorobiphenyl)  
PCB 138 (2,2',3,4,4',5'-Hexachlorobiphenyl)  
PCB 139 (2,2',3,4,4',6-Hexachlorobiphenyl)  
PCB 14 (3,5-Dichlorobiphenyl)  
PCB 140 (2,2',3,4,4',6'-Hexachlorobiphenyl)  
PCB 141 (2,2',3,4,5,5'-Hexachlorobiphenyl)  
PCB 142 (2,2',3,4,5,6-Hexachlorobiphenyl)  
PCB 143 (2,2',3,4,5,6'-Hexachlorobiphenyl)  
PCB 144 (2,2',3,4,5',6-Hexachlorobiphenyl)  
PCB 145 (2,2',3,4,6,6'-Hexachlorobiphenyl)  
PCB 146 (2,2',3,4',5,5'-Hexachlorobiphenyl)  
PCB 147 (2,2',3,4',5,6-Hexachlorobiphenyl)  
PCB 148 (2,2',3,4',5,6'-Hexachlorobiphenyl)

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PCB 149 (2,2',3,4',5',6-Hexachlorobiphenyl)  
PCB 15 (4,4'-Dichlorobiphenyl)  
PCB 150 (2,2',3,4',6,6'-Hexachlorobiphenyl)  
PCB 151 (2,2',3,5,5',6-Hexachlorobiphenyl)  
PCB 152 (2,2',3,5,6,6'-Hexachlorobiphenyl)  
PCB 153 (2,2',4,4',5,5'-Hexachlorobiphenyl)  
PCB 154 (2,2',4,4',5,6'-Hexachlorobiphenyl)  
PCB 155 (2,2',4,4',6,6'-Hexachlorobiphenyl)  
PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)  
PCB 157 (2,3,3',4,4',5'-Hexachlorobiphenyl)  
PCB 158 (2,3,3',4,4',6-Hexachlorobiphenyl)  
PCB 159 (2,3,3',4,5,5'-Hexachlorobiphenyl)  
PCB 16 (2,2',3-Trichlorobiphenyl)  
PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)  
PCB 161 (2,3,3',4,5',6-Hexachlorobiphenyl)  
PCB 162 (2,3,3',4',5,5'-Hexachlorobiphenyl)  
PCB 163 (2,3,3',4',5,6-Hexachlorobiphenyl)  
PCB 164 (2,3,3',4',5',6-Hexachlorobiphenyl)  
PCB 165 (2,3,3',5,5',6-Hexachlorobiphenyl)  
PCB 166 (2,3,4,4',5,6-Hexachlorobiphenyl)  
PCB 167 (2,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 168 (2,3',4,4',5',6-Hexachlorobiphenyl)  
PCB 169 (3,3',4,4',5,5'-Hexachlorobiphenyl)  
PCB 17 (2,2',4-Trichlorobiphenyl)  
PCB 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl)  
PCB 171 (2,2',3,3',4,4',6-Heptachlorobiphenyl)  
PCB 172 (2,2',3,3',4,5,5'-Heptachlorobiphenyl)  
PCB 173 (2,2',3,3',4,5,6-Heptachlorobiphenyl)  
PCB 174 (2,2',3,3',4,5,6'-Heptachlorobiphenyl)  
PCB 175 (2,2',3,3',4,5',6-Heptachlorobiphenyl)  
PCB 176 (2,2',3,3',4,6,6'-Heptachlorobiphenyl)  
PCB 177 (2,2',3,3',4,6',6'-Heptachlorobiphenyl)  
PCB 178 (2,2',3,3',5,5',6-Heptachlorobiphenyl)  
PCB 179 (2,2',3,3',5,6,6'-Heptachlorobiphenyl)  
PCB 18 (2,2',5-Trichlorobiphenyl)  
PCB 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)  
PCB 181 (2,2',3,4,4',5,6-Heptachlorobiphenyl)  
PCB 182 (2,2',3,4,4',5,6'-Heptachlorobiphenyl)  
PCB 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl)  
PCB 184 (2,2',3,4,4',6,6'-Heptachlorobiphenyl)  
PCB 185 (2,2',3,4,5,5',6-Heptachlorobiphenyl)

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PCB 186 (2,2',3,4,5,6,6'-Heptachlorobiphenyl)  
PCB 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl)  
PCB 188 (2,2',3,4',5,6,6'-Heptachlorobiphenyl)  
PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)  
PCB 19 (2,2',6-Trichlorobiphenyl)  
PCB 190 (2,3,3',4,4',5,6-Heptachlorobiphenyl)  
PCB 191 (2,3,3',4,4',5',6-Heptachlorobiphenyl)  
PCB 192 (2,3,3',4,5,5',6-Heptachlorobiphenyl)  
PCB 193 (2,3,3',4',5,5',6-Heptachlorobiphenyl)  
PCB 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)  
PCB 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl)  
PCB 196 (2,2',3,3',4,4',5,6'-Octachlorobiphenyl)  
PCB 197 (2,2',3,3',4,4',6,6'-Octachlorobiphenyl)  
PCB 198 (2,2',3,3',4,5,5',6-Octachlorobiphenyl)  
PCB 199 (2,2',3,3',4,5,5',6'-Octachlorobiphenyl)  
PCB 2 (3-Chlorobiphenyl)  
PCB 20 (2,3,3'-Trichlorobiphenyl)  
PCB 200 (2,2',3,3',4,5,6,6'-Octachlorobiphenyl)  
PCB 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl)  
PCB 202 (2,2',3,3',5,5',6,6'-Octachlorobiphenyl)  
PCB 203 (2,2',3,4,4',5,5',6-Octachlorobiphenyl)  
PCB 204 (2,2',3,4,4',5,6,6'-Octachlorobiphenyl)  
PCB 205 (2,3,3',4,4',5,5',6-Octachlorobiphenyl)  
PCB 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)  
PCB 207 (2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl)  
PCB 208 (2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl)  
PCB 209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)  
PCB 21 (2,3,4-Trichlorobiphenyl)  
PCB 22 (2,3,4'-Trichlorobiphenyl)  
PCB 23 (2,3,5-Trichlorobiphenyl)  
PCB 24 (2,3,6-Trichlorobiphenyl)  
PCB 25 (2,3',4-Trichlorobiphenyl)  
PCB 26 (2,3',5-Trichlorobiphenyl)  
PCB 27 (2,3',6-Trichlorobiphenyl)  
PCB 28 (2,4,4'-Trichlorobiphenyl)  
PCB 29 (2,4,5-Trichlorobiphenyl)  
PCB 3 (4-Chlorobiphenyl)  
PCB 30 (2,4,6-Trichlorobiphenyl)  
PCB 31 (2,4',5-Trichlorobiphenyl)  
PCB 32 (2,4',6-Trichlorobiphenyl)  
PCB 33 (2,3',4'-Trichlorobiphenyl)

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PCB 34 (2,3',5'-Trichlorobiphenyl)  
PCB 35 (3,3',4'-Trichlorobiphenyl)  
PCB 36 (3,3',5'-Trichlorobiphenyl)  
PCB 37 (3,4,4'-Trichlorobiphenyl)  
PCB 38 (3,4,5'-Trichlorobiphenyl)  
PCB 39 (3,4',5'-Trichlorobiphenyl)  
PCB 4 (2,2'-Dichlorobiphenyl)  
PCB 40 (2,2',3,3'-Tetrachlorobiphenyl)  
PCB 41 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 42 (2,2',3,4'-Tetrachlorobiphenyl)  
PCB 43 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 44 (2,2',3,5'-Tetrachlorobiphenyl)  
PCB 45 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 46 (2,2',3,6'-Tetrachlorobiphenyl)  
PCB 47 (2,2',4,4'-Tetrachlorobiphenyl)  
PCB 48 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 49 (2,2',4,5'-Tetrachlorobiphenyl)  
PCB 5 (2,3-Dichlorobiphenyl)  
PCB 50 (2,2',4,6'-Tetrachlorobiphenyl)  
PCB 51 (2,2',4,6'-Tetrachlorobiphenyl)  
PCB 52 (2,2',5,5'-Tetrachlorobiphenyl)  
PCB 53 (2,2',5,6'-Tetrachlorobiphenyl)  
PCB 54 (2,2',6,6'-Tetrachlorobiphenyl)  
PCB 55 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 56 (2,3,3',4'-Tetrachlorobiphenyl)  
PCB 57 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 58 (2,3,3',5'-Tetrachlorobiphenyl)  
PCB 59 (2,3,3',6'-Tetrachlorobiphenyl)  
PCB 6 (2,3'-Dichlorobiphenyl)  
PCB 60 (2,3,4,4'-Tetrachlorobiphenyl)  
PCB 61 (2,3,4,5'-Tetrachlorobiphenyl)  
PCB 62 (2,3,4,6'-Tetrachlorobiphenyl)  
PCB 63 (2,3,4',5'-Tetrachlorobiphenyl)  
PCB 64 (2,3,4',6'-Tetrachlorobiphenyl)  
PCB 65 (2,3,5,6'-Tetrachlorobiphenyl)  
PCB 66 (2,3',4,4'-Tetrachlorobiphenyl)  
PCB 67 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 68 (2,3',4,5'-Tetrachlorobiphenyl)  
PCB 69 (2,3',4,6'-Tetrachlorobiphenyl)  
PCB 7 (2,4-Dichlorobiphenyl)  
PCB 70 (2,3',4',5'-Tetrachlorobiphenyl)

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PCB 71 (2,3',4',6-Tetrachlorobiphenyl)  
PCB 72 (2,3',5,5'-Tetrachlorobiphenyl)  
PCB 73 (2,3',5',6-Tetrachlorobiphenyl)  
PCB 74 (2,4,4',5-Tetrachlorobiphenyl)  
PCB 75 (2,4,4',6-Tetrachlorobiphenyl)  
PCB 76 (2,3',4',5'-Tetrachlorobiphenyl)  
PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
PCB 78 (3,3',4,5-Tetrachlorobiphenyl)  
PCB 79 (3,3',4,5'-Tetrachlorobiphenyl)  
PCB 8 (2,4'-Dichlorobiphenyl)  
PCB 80 (3,3',5,5'-Tetrachlorobiphenyl)  
PCB 81 (3,4,4',5-Tetrachlorobiphenyl)  
PCB 82 (2,2',3,3',4-Pentachlorobiphenyl)  
PCB 83 (2,2',3,3',5-Pentachlorobiphenyl)  
PCB 84 (2,2',3,3',6-Pentachlorobiphenyl)  
PCB 85 (2,2',3,4,4'-Pentachlorobiphenyl)  
PCB 86 (2,2',3,4,5-Pentachlorobiphenyl)  
PCB 87 (2,2',3,4,5'-Pentachlorobiphenyl)  
PCB 88 (2,2',3,4,6-Pentachlorobiphenyl)  
PCB 89 (2,2',3,4,6'-Pentachlorobiphenyl)  
PCB 9 (2,5-Dichlorobiphenyl)  
PCB 90 (2,2',3,4',5-Pentachlorobiphenyl)  
PCB 91 (2,2',3,4',6-Pentachlorobiphenyl)  
PCB 92 (2,2',3,5,5'-Pentachlorobiphenyl)  
PCB 93 (2,2',3,5,6-Pentachlorobiphenyl)  
PCB 94 (2,2',3,5,6'-Pentachlorobiphenyl)  
PCB 95 (2,2',3,5',6-Pentachlorobiphenyl)  
PCB 96 (2,2',3,6,6'-Pentachlorobiphenyl)  
PCB 97 (2,2',3,4',5'-Pentachlorobiphenyl)  
PCB 98 (2,2',3,4',6'-Pentachlorobiphenyl)  
PCB 99 (2,2',4,4',5-Pentachlorobiphenyl)

**Water (Organic)**

Taste and Odour Compounds - Water (038)

BU-TM-1115; modified from EPA 8270D

HRGC/HRMS

2-Isobutyl-3-methoxypyrazine

2-Isopropyl-3-methoxypyrazine

2-Methylisoborneol (MIB)

2,3,6-Trichloroanisole

2,4,6-Trichloroanisole

3,4,5-Trichloroveratrole

Geosmin

OSDWA †

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