

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122419\  
 Data File : VY001043.D  
 Acq On : 24 Dec 2019 13:25  
 Operator : SY/MD  
 Sample : K6396-10  
 Misc : 5.14G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-5-(0-2)

Quant Time: Dec 25 01:37:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y122319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 12:07:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.79  | 168  | 75       | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 665      | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 1024     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 429      | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 330      | 446.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 892.24% |      |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0        | 0.00   | ug/l    |      |
| Spiked Amount             | 50.000 |     | Recovery | =      | 0.00%   |      |
| 50) Toluene-d8            | 10.19  | 98  | 755      | 49.34  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 98.68%  |      |
| 62) 4-Bromofluorobenzene  | 12.49  | 95  | 377      | 67.38  | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 134.76% |      |

## Target Compounds

|                              |       |     |     |          |        | Qvalue |
|------------------------------|-------|-----|-----|----------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.89  | 85  | 25  | 38.254   | ug/l # | 43     |
| 3) Chloromethane             | 2.11  | 50  | 21  | 23.610   | ug/l # | 1      |
| 5) Bromomethane              | 2.46  | 94  | 24  | 43.654   | ug/l # | 3      |
| 8) Diethyl Ether             | 3.47  | 74  | 23  | 44.473   | ug/l # | 3      |
| 10) Methyl Iodide            | 4.13  | 142 | 48  | 41.745   | ug/l # | 44     |
| 13) Acrolein                 | 3.73  | 56  | 19  | 188.540  | ug/l # | 15     |
| 14) Allyl chloride           | 4.38  | 41  | 39  | 29.796   | ug/l # | 27     |
| 16) Acetone                  | 3.94  | 43  | 214 | 1255.802 | ug/l # | 35     |
| 18) Methyl Acetate           | 4.53  | 43  | 39  | 59.653   | ug/l # | 49     |
| 19) Methyl tert-butyl Ether  | 5.29  | 73  | 61  | 28.050   | ug/l # | 52     |
| 21) trans-1,2-Dichloroethene | 5.23  | 96  | 20  | 21.418   | ug/l # | 1      |
| 23) Vinyl Acetate            | 6.05  | 43  | 29  | 17.356   | ug/l # | 69     |
| 25) 2-Butanone               | 7.00  | 43  | 67  | 223.807  | ug/l # | 1      |
| 26) 2,2-Dichloropropane      | 6.99  | 77  | 25  | 19.463   | ug/l # | 51     |
| 27) cis-1,2-Dichloroethene   | 6.98  | 96  | 23  | 22.420   | ug/l # | 1      |
| 28) Bromochloromethane       | 7.33  | 49  | 41  | 67.210   | ug/l # | 14     |
| 29) Tetrahydrofuran          | 7.35  | 42  | 70  | 328.722  | ug/l # | 58     |
| 37) Ethyl Acetate            | 7.10  | 43  | 26  | 7.402    | ug/l # | 66     |
| 40) Benzene                  | 8.18  | 78  | 23  | 1.202    | ug/l # | 54     |
| 41) Methacrylonitrile        | 7.36  | 41  | 44  | 28.891   | ug/l # | 100    |
| 42) 1,2-Dichloroethane       | 8.27  | 62  | 33  | 7.212    | ug/l # | 1      |
| 43) Isopropyl Acetate        | 8.13  | 43  | 24  | 3.691    | ug/l # | 50     |
| 44) Trichloroethene          | 8.94  | 130 | 78  | 15.468   | ug/l # | 2      |
| 48) Methyl methacrylate      | 9.28  | 41  | 22  | 7.928    | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone     | 10.07 | 43  | 503 | 148.408  | ug/l # | 59     |
| 52) Toluene                  | 10.24 | 92  | 139 | 11.800   | ug/l # | 48     |
| 59) 2-Hexanone               | 10.83 | 43  | 374 | 159.475  | ug/l # | 50     |
| 61) 1,2-Dibromoethane        | 11.24 | 107 | 22  | 6.226    | ug/l # | 3      |
| 65) Chlorobenzene            | 11.50 | 112 | 45  | 2.119    | ug/l # | 43     |
| 67) Ethyl Benzene            | 11.59 | 91  | 504 | 13.192   | ug/l # | 43     |
| 68) m/p-Xylenes              | 11.70 | 106 | 250 | 17.234   | ug/l # | 32     |
| 69) o-Xylene                 | 12.03 | 106 | 124 | 9.086    | ug/l # | 1      |
| 70) Styrene                  | 12.05 | 104 | 66  | 2.844    | ug/l # | 1      |
| 73) Isopropylbenzene         | 12.32 | 105 | 375 | 11.296   | ug/l # | 48     |

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|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 74) N-amyl acetate             | 11.96 | 43   | 95       | 10.893 | ug/l # | 39       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.35 | 83   | 37       | 5.657  | ug/l # | 25       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 48       | 9.076  | ug/l # | 100      |
| 77) Bromobenzene               | 12.61 | 156  | 133      | 17.813 | ug/l # | 3        |
| 78) n-propylbenzene            | 12.67 | 91   | 486      | 12.014 | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 457      | 20.457 | ug/l # | 48       |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 508      | 18.668 | ug/l # | 50       |
| 81) trans-1,4-Dichloro-2-buten | 12.47 | 75   | 80       | 32.262 | ug/l # | 19       |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 537      | 23.143 | ug/l # | 61       |
| 83) tert-Butylbenzene          | 13.07 | 119  | 248      | 10.857 | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.11 | 105  | 401      | 14.664 | ug/l   | 66       |
| 85) sec-Butylbenzene           | 13.24 | 105  | 587      | 17.431 | ug/l # | 56       |
| 86) p-Isopropyltoluene         | 13.36 | 119  | 450      | 15.443 | ug/l # | 59       |
| 87) 1,3-Dichlorobenzene        | 13.45 | 146  | 292      | 20.363 | ug/l   | 80       |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 292      | 20.186 | ug/l   | 79       |
| 89) n-Butylbenzene             | 13.70 | 91   | 321      | 10.949 | ug/l   | 90       |
| 90) Hexachloroethane           | 13.87 | 117  | 45       | 8.197  | ug/l # | 16       |
| 91) 1,2-Dichlorobenzene        | 13.73 | 146  | 441      | 33.339 | ug/l # | 59       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.13 | 75   | 63       | 57.577 | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene     | 15.00 | 180  | 19       | 2.128  | ug/l # | 13       |
| 95) Naphthalene                | 15.23 | 128  | 337      | 16.050 | ug/l # | 70       |
| -----                          |       |      |          |        |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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