

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121319\  
 Data File : VU036197.D  
 Acq On : 13 Dec 2019 14:59  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00513

Quant Time: Dec 14 01:15:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Dec 14 01:03:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 297442   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 306746   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 161749   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 127943   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 113915   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 187606   | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.40%  |
| 20) 2-Butanone-d5              | 4.70   | 46    | 253994   | 51.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.52% |
| 24) Chloroform-d               | 5.11   | 84    | 203464   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 104108   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.20%  |
| 32) Benzene-d6                 | 5.77   | 84    | 391129   | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.40% |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 120972   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.60%  |
| 41) Toluene-d8                 | 7.93   | 98    | 380544   | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.00% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 53931    | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 108.00% |
| 46) 2-Hexanone-d5              | 8.67   | 63    | 213015   | 55.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 111.46% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 109519   | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 153300   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.00%  |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 156389 | 4.711 ug/L  | 97     |
| 3) Chloromethane               | 1.54 | 50  | 186375 | 4.474 ug/L  | 98     |
| 5) Vinyl chloride              | 1.62 | 62  | 189287 | 4.789 ug/L  | 97     |
| 6) Bromomethane                | 1.87 | 94  | 97458  | 4.935 ug/L  | 94     |
| 8) Chloroethane                | 1.95 | 64  | 112057 | 4.748 ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 234856 | 4.715 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 114740 | 4.808 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 107203 | 4.858 ug/L  | 97     |
| 13) Acetone                    | 2.68 | 43  | 177810 | 41.578 ug/L | 99     |
| 14) Carbon disulfide           | 2.82 | 76  | 349053 | 4.715 ug/L  | 99     |
| 15) Methyl Acetate             | 3.00 | 43  | 40023  | 4.632 ug/L  | 96     |
| 16) Methylene chloride         | 3.08 | 84  | 129290 | 3.986 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 3.42 | 73  | 237888 | 5.030 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 114368 | 4.949 ug/L  | 95     |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 201382 | 4.720 ug/L  | 97     |
| 21) 2-Butanone                 | 4.77 | 43  | 281082 | 49.186 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 121263 | 4.892 ug/L  | 95     |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 57340    | 4.781  | ug/L  | 99       |
| 25) Chloroform                  | 5.14  | 83   | 214486   | 4.647  | ug/L  | 95       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 132828   | 4.852  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 182636   | 4.836  | ug/L  | 98       |
| 30) Cyclohexane                 | 5.43  | 56   | 168273   | 5.237  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.57  | 117  | 162733   | 4.726  | ug/L  | 99       |
| 33) Benzene                     | 5.82  | 78   | 474173   | 5.030  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 118402   | 4.872  | ug/L  | 95       |
| 35) Methylcyclohexane           | 6.80  | 83   | 178750   | 5.173  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 119478   | 4.968  | ug/L  | 97       |
| 38) Bromodichloromethane        | 7.14  | 83   | 150624   | 4.812  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.65  | 75   | 169949   | 5.186  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 663429   | 52.736 | ug/L  | 99       |
| 42) Toluene                     | 8.00  | 91   | 522896   | 5.175  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 142520   | 5.178  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 87375    | 4.848  | ug/L  | 95       |
| 47) Tetrachloroethene           | 8.58  | 164  | 107919   | 4.917  | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.73  | 43   | 505108   | 53.801 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.84  | 129  | 110043   | 4.940  | ug/L  | 94       |
| 50) 1,2-Dibromoethane           | 8.96  | 107  | 85907    | 4.998  | ug/L  | 100      |
| 51) Chlorobenzene               | 9.48  | 112  | 331281   | 4.965  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.60  | 91   | 529753   | 5.220  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.72  | 106  | 204986   | 5.242  | ug/L  | 100      |
| 54) o-Xylene                    | 10.13 | 106  | 197896   | 5.247  | ug/L  | 94       |
| 55) Styrene                     | 10.14 | 104  | 348638   | 5.224  | ug/L  | 99       |
| 56) Isopropylbenzene            | 10.51 | 105  | 512275   | 5.289  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 113695   | 4.955  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 81390    | 5.092  | ug/L  | 97       |
| 61) Bromoform                   | 10.32 | 173  | 66580    | 4.742  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 277218   | 5.080  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 275053   | 5.082  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.24 | 146  | 259785   | 4.997  | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 16646    | 4.820  | ug/L  | 92       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 200890   | 4.913  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 138010   | 5.138  | ug/L  | 98       |
| 69) Naphthalene                 | 14.11 | 128  | 174924   | 5.119  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 140198   | 5.397  | ug/L  | 99       |

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

