

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR092718\  
 Data File : VR025878.D  
 Acq On : 27 Sep 2018 16:32  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00588

Manual Integrations  
 APPROVED

MMDadoda  
 10/1/2018 11:53:54 AM

Quant Time: Sep 28 05:37:35 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Thu Sep 27 16:45:32 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 575738   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 487784   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 177045   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 224168   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 98.80%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 174462   | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.00%  |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 491941   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.20%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 260037   | 51.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.76% |
| 24) Chloroform-d               | 7.20   | 84    | 384112   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 166319   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 32) Benzene-d6                 | 7.85   | 84    | 792700   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 213372   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.60%  |
| 41) Toluene-d8                 | 9.97   | 98    | 749379   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 49821    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.40% |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 197770   | 52.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 104.44% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 86022    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 137664   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.20%  |

#### Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 165885  | 4.740 ug/L   | 97     |
| 3) Chloromethane               | 2.01 | 50  | 238612  | 4.795 ug/L   | 99     |
| 5) Vinyl chloride              | 2.17 | 62  | 227694  | 4.597 ug/L   | 99     |
| 6) Bromomethane                | 2.52 | 94  | 139529  | 4.512 ug/L   | 97     |
| 8) Chloroethane                | 2.66 | 64  | 132195  | 4.691 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 326145m | 4.743 ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 195503  | 4.651 ug/L   | 95     |
| 12) 1,1-Dichloroethene         | 3.65 | 96  | 202610  | 4.662 ug/L   | 89     |
| 13) Acetone                    | 3.70 | 43  | 161050  | 43.900 ug/L  | 97     |
| 14) Carbon disulfide           | 3.96 | 76  | 488805  | 4.646 ug/L   | 99     |
| 15) Methyl Acetate             | 4.19 | 43  | 47160   | 4.636 ug/L   | 93     |
| 16) Methylene chloride         | 4.40 | 84  | 169890  | 4.251 ug/L   | 92     |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 236875  | 4.922 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 177489  | 4.938 ug/L   | 91     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 334089  | 4.694 ug/L   | 99     |
| 21) 2-Butanone                 | 6.69 | 43  | 244553  | 48.466 ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 172038  | 4.757 ug/L # | 95     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR092718\  
 Data File : VR025878.D  
 Acq On : 27 Sep 2018 16:32  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00588

Manual Integrations  
 APPROVED

MMDadoda  
 10/1/2018 11:53:54 AM

Quant Time: Sep 28 05:37:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Sep 27 16:45:32 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.05  | 128  | 46622    | 4.752  | ug/L   | 96       |
| 25) Chloroform                 | 7.23  | 83   | 328568   | 4.741  | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 7.99  | 62   | 164941   | 4.770  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 256498   | 4.676  | ug/L   | 98       |
| 30) Cyclohexane                | 7.51  | 56   | 333992   | 4.873  | ug/L   | 97       |
| 31) Carbon tetrachloride       | 7.63  | 117  | 238551   | 5.022  | ug/L   | 99       |
| 33) Benzene                    | 7.91  | 78   | 767396   | 4.690  | ug/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 202617   | 4.700  | ug/L   | 98       |
| 35) Methylcyclohexane          | 8.96  | 83   | 317412   | 4.897  | ug/L   | 97       |
| 37) 1,2-Dichloropropane        | 9.00  | 63   | 168685   | 4.806  | ug/L   | 99       |
| 38) Bromodichloromethane       | 9.28  | 83   | 179166   | 4.731  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 188357   | 4.786  | ug/L   | 92       |
| 40) 4-Methyl-2-pentanone       | 9.87  | 43   | 597738   | 48.432 | ug/L   | 98       |
| 42) Toluene                    | 10.04 | 91   | 809214   | 4.760  | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 127826   | 4.975  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 71967    | 4.533  | ug/L   | 96       |
| 47) Tetrachloroethene          | 10.51 | 164  | 124714   | 4.695  | ug/L   | 96       |
| 48) 2-Hexanone                 | 10.63 | 43   | 399000   | 49.378 | ug/L   | 98       |
| 49) Dibromochloromethane       | 10.79 | 129  | 74184    | 4.604  | ug/L   | 97       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 63812    | 5.094  | ug/L # | 99       |
| 51) Chlorobenzene              | 11.32 | 112  | 432752   | 4.799  | ug/L   | 94       |
| 52) Ethylbenzene               | 11.39 | 91   | 940753   | 4.848  | ug/L   | 100      |
| 53) m,p-Xylene                 | 11.50 | 106  | 337215   | 4.882  | ug/L   | 91       |
| 54) o-Xylene                   | 11.83 | 106  | 309213   | 4.809  | ug/L   | 98       |
| 55) Styrene                    | 11.84 | 104  | 483006   | 4.826  | ug/L   | 97       |
| 56) Isopropylbenzene           | 12.13 | 105  | 873949   | 4.928  | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.38 | 83   | 72897    | 4.766  | ug/L # | 93       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 54278    | 4.768  | ug/L   | 97       |
| 61) Bromoform                  | 12.01 | 173  | 25180    | 4.705  | ug/L   | 96       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 256767   | 4.962  | ug/L   | 95       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 250410   | 4.731  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 191288   | 4.601  | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 7079     | 4.050  | ug/L # | 79       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 148945   | 4.832  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 14.78 | 180  | 93855    | 4.777  | ug/L   | 99       |
| 69) Naphthalene                | 15.00 | 128  | 123885   | 4.940  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 67714    | 4.967  | ug/L   | 98       |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR092718\  
Data File : VR025878.D  
Acq On : 27 Sep 2018 16:32  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00588

Manual Integrations  
APPROVED

MMDadoda  
10/1/2018 11:53:54 AM

Quant Time: Sep 28 05:37:35 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Sep 27 16:45:32 2018  
Response via : Initial Calibration

