

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011320\  
 Data File : VV014276.D  
 Acq On : 13 Jan 2020 12:28  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00554

Quant Time: Jan 14 15:10:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jan 11 00:01:14 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 1127381  | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 1027908  | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 488901   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 364777   | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 285856   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 583541   | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 100.40% |
| 20) 2-Butanone-d5              | 3.96   | 46    | 907355   | 47.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.76%  |
| 24) Chloroform-d               | 4.40   | 84    | 788706   | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.40% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 373825   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 32) Benzene-d6                 | 5.09   | 84    | 1615196  | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.20% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 495895   | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.40% |
| 41) Toluene-d8                 | 7.35   | 98    | 1476400  | 5.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.40% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 207058   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 98.40%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 816468   | 45.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.68%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25  | 84    | 327473   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 464399   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.20% |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 419732  | 4.938 ug/L   | 99     |
| 3) Chloromethane               | 1.26 | 50  | 414986  | 4.912 ug/L   | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 401794  | 5.092 ug/L   | 98     |
| 6) Bromomethane                | 1.54 | 94  | 225454  | 5.036 ug/L   | 99     |
| 8) Chloroethane                | 1.60 | 64  | 214788  | 4.845 ug/L   | 98     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 513077  | 5.508 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 283349  | 5.616 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 269596  | 5.353 ug/L   | 96     |
| 13) Acetone                    | 2.23 | 43  | 468146  | 35.875 ug/L  | 96     |
| 14) Carbon disulfide           | 2.32 | 76  | 1105531 | 4.946 ug/L   | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 158835  | 5.229 ug/L   | 92     |
| 16) Methylene chloride         | 2.53 | 84  | 422594  | 5.154 ug/L   | 94     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 951492  | 5.104 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 409776  | 5.412 ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 780762  | 5.261 ug/L   | 98     |
| 21) 2-Butanone                 | 4.04 | 43  | 989149  | 50.534 ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 446982  | 5.386 ug/L # | 97     |

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 VSTD00554

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jan 11 00:01:14 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 167250   | 5.301  | ug/L  | 92       |
| 25) Chloroform                  | 4.42  | 83   | 748247   | 5.267  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 434144   | 5.108  | ug/L  | 95       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 666497   | 5.447  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 767009   | 5.677  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 575997   | 5.497  | ug/L  | 100      |
| 33) Benzene                     | 5.14  | 78   | 1698781  | 5.366  | ug/L  | 100      |
| 34) Trichloroethene             | 5.95  | 95   | 445632   | 5.478  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.17  | 83   | 770634   | 5.794  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 421098   | 5.270  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.55  | 83   | 537589   | 5.218  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene     | 7.06  | 75   | 675792   | 5.224  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 2495023  | 49.535 | ug/L  | 100      |
| 42) Toluene                     | 7.42  | 91   | 1800580  | 5.388  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 514463   | 5.179  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 263351   | 5.159  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.01  | 164  | 310229   | 5.582  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.18  | 43   | 1780681  | 51.112 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.28  | 129  | 334427   | 5.182  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 8.39  | 107  | 251878   | 5.096  | ug/L  | 94       |
| 51) Chlorobenzene               | 8.92  | 112  | 1102345  | 5.364  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 2046124  | 5.473  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 766965   | 5.561  | ug/L  | 99       |
| 54) o-xylene                    | 9.58  | 106  | 741612   | 5.468  | ug/L  | 97       |
| 55) Styrene                     | 9.60  | 104  | 1242712  | 5.409  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 2003061  | 5.663  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 327941   | 5.210  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.31 | 75   | 239431   | 5.029  | ug/L  | 99       |
| 61) Bromoform                   | 9.77  | 173  | 169664   | 5.120  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 837143   | 5.477  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 832985   | 5.481  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.68 | 146  | 738995   | 5.354  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 58885    | 4.641  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 620229   | 5.580  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.30 | 180  | 535613   | 5.494  | ug/L  | 100      |
| 69) Naphthalene                 | 13.54 | 128  | 997781   | 5.038  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 453989   | 5.292  | ug/L  | 98       |

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

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