

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR080818\  
 Data File : VR025587.D  
 Acq On : 8 Aug 2018 9:50  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00594

Manual Integrations  
 APPROVED

MMDadoda  
 8/10/2018 11:42:01 AM

Quant Time: Aug 09 04:23:06 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR073018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 08 02:00:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 791589   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 686402   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 307812   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 190146   | 3.87     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 77.40% |
| 7) Chloroethane-d5             | 2.64   | 69    | 141453   | 3.66     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 73.20% |
| 11) 1,1-Dichloroethene-d2      | 3.64   | 63    | 466396   | 4.12     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 82.40% |
| 20) 2-Butanone-d5              | 6.60   | 46    | 190461   | 46.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.96% |
| 24) Chloroform-d               | 7.21   | 84    | 355471   | 4.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.20% |
| 26) 1,2-Dichloroethane-d4      | 7.91   | 65    | 120969   | 4.37     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.40% |
| 32) Benzene-d6                 | 7.86   | 84    | 821254   | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.20% |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 210889   | 4.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 87.20% |
| 41) Toluene-d8                 | 9.97   | 98    | 832314   | 4.59     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80% |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 53635    | 4.34     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.80% |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 193776   | 49.06    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 97418    | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.20% |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 205798   | 4.38     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 87.60% |

## Target Compounds

|                                |      |     |         |       |        | Ovalue |
|--------------------------------|------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 191601  | 4.23  | ug/L   | 100    |
| 3) Chloromethane               | 2.02 | 50  | 250923  | 4.19  | ug/L   | 91     |
| 5) Vinyl chloride              | 2.16 | 62  | 231943  | 3.88  | ug/L   | 98     |
| 6) Bromomethane                | 2.53 | 94  | 118715  | 3.61  | ug/L   | 90     |
| 8) Chloroethane                | 2.67 | 64  | 120676  | 3.63  | ug/L   | 97     |
| 9) Trichlorofluoromethane      | 2.98 | 101 | 370995m | 4.54  | ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 224514  | 4.25  | ug/L   | 94     |
| 12) 1,1-Dichloroethene         | 3.66 | 96  | 240160  | 4.25  | ug/L   | 90     |
| 13) Acetone                    | 3.71 | 43  | 177537  | 52.10 | ug/L   | 96     |
| 14) Carbon disulfide           | 3.96 | 76  | 511346  | 3.90  | ug/L # | 95     |
| 15) Methyl Acetate             | 4.20 | 43  | 43722   | 4.06  | ug/L   | 95     |
| 16) Methylene chloride         | 4.41 | 84  | 200118m | 4.19  | ug/L   |        |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 247379  | 4.36  | ug/L # | 90     |
| 18) trans-1,2-Dichloroethene   | 4.89 | 96  | 246383  | 4.55  | ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 5.70 | 63  | 347284  | 4.38  | ug/L   | 94     |
| 21) 2-Butanone                 | 6.70 | 43  | 248674  | 52.53 | ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 6.68 | 96  | 236849  | 4.79  | ug/L # | 97     |

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| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 23) Bromochloromethane          | 7.05  | 128  | 79608    | 4.85  | ug/L   | 92       |
| 25) Chloroform                  | 7.24  | 83   | 352604   | 4.49  | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 8.00  | 62   | 140991   | 4.51  | ug/L # | 84       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 263785   | 4.34  | ug/L   | 99       |
| 30) Cyclohexane                 | 7.52  | 56   | 325265   | 4.64  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 7.64  | 117  | 277329   | 4.42  | ug/L   | 98       |
| 33) Benzene                     | 7.91  | 78   | 965724   | 4.55  | ug/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 231539   | 4.39  | ug/L   | 98       |
| 35) Methylcyclohexane           | 8.96  | 83   | 387045   | 4.88  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 8.99  | 63   | 202630   | 4.54  | ug/L   | 99       |
| 38) Bromodichloromethane        | 9.29  | 83   | 203525   | 4.46  | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 238221   | 4.83  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 9.87  | 43   | 637147   | 50.65 | ug/L   | 98       |
| 42) Toluene                     | 10.03 | 91   | 1108777  | 4.91  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene   | 10.27 | 75   | 163324   | 4.75  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 100363   | 4.51  | ug/L   | 94       |
| 47) Tetrachloroethene           | 10.52 | 164  | 218227   | 4.84  | ug/L   | 97       |
| 48) 2-Hexanone                  | 10.64 | 43   | 425012   | 50.10 | ug/L   | 97       |
| 49) Dibromochloromethane        | 10.79 | 129  | 122000   | 4.65  | ug/L   | 96       |
| 50) 1,2-Dibromoethane           | 10.89 | 107  | 83915    | 4.52  | ug/L   | 91       |
| 51) Chlorobenzene               | 11.31 | 112  | 644712   | 4.72  | ug/L   | 97       |
| 52) Ethylbenzene                | 11.39 | 91   | 1197046  | 4.88  | ug/L   | 99       |
| 53) m,p-Xylene                  | 11.51 | 106  | 476516   | 5.02  | ug/L   | 100      |
| 54) o-Xylene                    | 11.83 | 106  | 445710   | 5.11  | ug/L   | 95       |
| 55) Styrene                     | 11.85 | 104  | 700077   | 5.04  | ug/L   | 97       |
| 56) Isopropylbenzene            | 12.13 | 105  | 1162864  | 5.07  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.38 | 83   | 100750   | 4.78  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 12.44 | 75   | 64775    | 4.60  | ug/L   | 97       |
| 61) Bromoform                   | 12.01 | 173  | 53524    | 4.37  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 397842   | 4.47  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 441442   | 4.57  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 348201   | 4.55  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.14 | 75   | 8727     | 3.69  | ug/L   | 95       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 279079   | 4.61  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 14.79 | 180  | 176072   | 4.53  | ug/L   | 97       |
| 69) Naphthalene                 | 15.00 | 128  | 182223   | 4.10  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 150641   | 5.04  | ug/L   | 98       |
| -----                           |       |      |          |       |        |          |

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

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