

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101019\  
 Data File : VR026657.D  
 Acq On : 10 Oct 2019 18:56  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VICV66

Quant Time: Oct 11 06:59:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR101019WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 11 06:45:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.48  | 114  | 244625   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.30 | 117  | 198954   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.24 | 152  | 103649   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.20   | 65    | 71057    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 102.00% |
| 7) Chloroethane-d5             | 2.64   | 69    | 57232    | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.20%  |
| 11) 1,1-Dichloroethene-d2      | 3.65   | 63    | 174803   | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 98.60%  |
| 20) 2-Butanone-d5              | 6.62   | 46    | 96806    | 51.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 102.92% |
| 24) Chloroform-d               | 7.23   | 84    | 226088   | 5.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.40% |
| 26) 1,2-Dichloroethane-d4      | 7.91   | 65    | 78050    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.00% |
| 32) Benzene-d6                 | 7.88   | 84    | 462146   | 5.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.80% |
| 36) 1,2-Dichloropropane-d6     | 8.92   | 67    | 110662   | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.40% |
| 41) Toluene-d8                 | 9.98   | 98    | 391912   | 5.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 116.00% |
| 43) trans-1,3-Dichloropropene- | 10.25  | 79    | 28318    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.80%  |
| 46) 2-Hexanone-d5              | 10.60  | 63    | 78557    | 55.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 111.46% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.38  | 84    | 54774    | 5.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 110.20% |
| 64) 1,2-Dichlorobenzene-d4     | 13.53  | 152   | 97457    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.60%  |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.86 | 85  | 202409 | 5.088 ug/L   | 98     |
| 3) Chloromethane               | 2.07 | 50  | 93939  | 4.686 ug/L   | 89     |
| 5) Vinyl chloride              | 2.20 | 62  | 88917  | 4.648 ug/L   | 94     |
| 6) Bromomethane                | 2.54 | 94  | 61277  | 4.766 ug/L   | 96     |
| 8) Chloroethane                | 2.67 | 64  | 51930  | 4.687 ug/L   | 96     |
| 9) Trichlorofluoromethane      | 2.99 | 101 | 185182 | 5.013 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 75180  | 4.873 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 3.67 | 96  | 70918  | 4.863 ug/L   | 88     |
| 13) Acetone                    | 3.73 | 43  | 68161  | 48.193 ug/L  | 98     |
| 14) Carbon disulfide           | 3.97 | 76  | 470347 | 4.747 ug/L   | 95     |
| 15) Methyl Acetate             | 4.22 | 43  | 28330  | 4.787 ug/L   | 99     |
| 16) Methylene chloride         | 4.42 | 84  | 136211 | 4.403 ug/L   | 96     |
| 17) Methyl tert-butyl Ether    | 4.93 | 73  | 137242 | 5.276 ug/L # | 91     |
| 18) trans-1,2-Dichloroethene   | 4.90 | 96  | 143380 | 5.033 ug/L   | 90     |
| 19) 1,1-Dichloroethane         | 5.72 | 63  | 243920 | 5.018 ug/L   | 98     |
| 21) 2-Butanone                 | 6.72 | 43  | 122335 | 54.431 ug/L  | 96     |
| 22) cis-1,2-Dichloroethene     | 6.70 | 96  | 135828 | 5.265 ug/L # | 100    |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.07  | 128  | 39122    | 5.105  | ug/L   | 97       |
| 25) Chloroform                  | 7.25  | 83   | 238481   | 4.895  | ug/L   | 96       |
| 27) 1,2-Dichloroethane          | 8.01  | 62   | 96472    | 5.187  | ug/L # | 89       |
| 29) 1,1,1-Trichloroethane       | 7.45  | 97   | 190790   | 5.264  | ug/L   | 96       |
| 30) Cyclohexane                 | 7.54  | 56   | 235749   | 5.911  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 7.65  | 117  | 174140   | 5.155  | ug/L   | 99       |
| 33) Benzene                     | 7.93  | 78   | 563196   | 5.501  | ug/L   | 100      |
| 34) Trichloroethene             | 8.73  | 95   | 137850   | 5.077  | ug/L   | 97       |
| 35) Methylcyclohexane           | 8.97  | 83   | 240353   | 5.977  | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 9.02  | 63   | 108771   | 5.375  | ug/L   | 99       |
| 38) Bromodichloromethane        | 9.30  | 83   | 117116   | 5.053  | ug/L   | 94       |
| 39) cis-1,3-Dichloropropene     | 9.73  | 75   | 115129   | 5.163  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 9.88  | 43   | 279014   | 58.930 | ug/L   | 98       |
| 42) Toluene                     | 10.05 | 91   | 543274   | 5.982  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 10.28 | 75   | 74392    | 5.040  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 10.46 | 97   | 46920    | 4.831  | ug/L   | 96       |
| 47) Tetrachloroethene           | 10.53 | 164  | 90189    | 5.329  | ug/L   | 97       |
| 48) 2-Hexanone                  | 10.65 | 43   | 176040   | 55.597 | ug/L   | 100      |
| 49) Dibromochloromethane        | 10.80 | 129  | 52644    | 5.114  | ug/L   | 95       |
| 50) 1,2-Dibromoethane           | 10.90 | 107  | 41178    | 5.111  | ug/L   | 91       |
| 51) Chlorobenzene               | 11.33 | 112  | 276328   | 5.076  | ug/L   | 98       |
| 52) Ethylbenzene                | 11.41 | 91   | 577898   | 5.752  | ug/L   | 97       |
| 53) m,p-Xylene                  | 11.52 | 106  | 211179   | 5.655  | ug/L   | 97       |
| 54) o-Xylene                    | 11.84 | 106  | 204626   | 5.991  | ug/L   | 95       |
| 55) Styrene                     | 11.86 | 104  | 296946   | 6.024  | ug/L   | 96       |
| 56) Isopropylbenzene            | 12.14 | 105  | 594275   | 5.925  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.40 | 83   | 52785    | 5.104  | ug/L # | 93       |
| 59) 1,2,3-Trichloropropane      | 12.45 | 75   | 37991    | 5.088  | ug/L   | 97       |
| 61) Bromoform                   | 12.02 | 173  | 21413    | 4.803  | ug/L # | 95       |
| 62) 1,3-Dichlorobenzene         | 13.18 | 146  | 198895   | 5.014  | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene         | 13.26 | 146  | 194635   | 4.848  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 13.55 | 146  | 172694   | 5.147  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.16 | 75   | 8964     | 4.619  | ug/L # | 75       |
| 67) 1,3,5-Trichlorobenzene      | 14.31 | 180  | 149056   | 4.899  | ug/L   | 96       |
| 68) 1,2,4-trichlorobenzene      | 14.80 | 180  | 114134   | 5.012  | ug/L   | 99       |
| 69) Naphthalene                 | 15.02 | 128  | 140551   | 5.440  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 15.20 | 180  | 108904   | 5.246  | ug/L   | 98       |

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

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