

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081018\  
 Data File : VV006995.D  
 Acq On : 10 Aug 2018 20:28  
 Operator : SY/MD  
 Sample : MDL06  
 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

apatel  
 8/13/2018 5:35:23 PM

Quant Time: Aug 13 09:13:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 11 00:19:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 242846   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 237782   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 95156    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 64343    | 4.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 60413    | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 88927    | 3.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.40%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 250242   | 55.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 111.02% |
| 24) Chloroform-d               | 4.40   | 84    | 153410   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 82973    | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.40% |
| 32) Benzene-d6                 | 5.10   | 84    | 280212   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 100050   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.80%  |
| 41) Toluene-d8                 | 7.37   | 98    | 209277   | 4.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 80.60%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 30446    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.80%  |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 130569   | 43.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 87.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 80599    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 81986    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.00%  |

## Target Compounds

|                                |      |     |       |             | Ovalue |
|--------------------------------|------|-----|-------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 5053  | 0.21 ug/L   | 95     |
| 3) Chloromethane               | 1.25 | 50  | 5110  | 0.22 ug/L   | 96     |
| 5) Vinyl chloride              | 1.32 | 62  | 4875  | 0.21 ug/L # | 65     |
| 6) Bromomethane                | 1.53 | 94  | 1366  | 0.27 ug/L   | 79     |
| 8) Chloroethane                | 1.60 | 64  | 3200  | 0.22 ug/L   | 86     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 6307  | 0.21 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 4278  | 0.24 ug/L   | 91     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 4680  | 0.27 ug/L # | 1      |
| 13) Acetone                    | 2.20 | 43  | 6641  | 2.86 ug/L   | 99     |
| 14) Carbon disulfide           | 2.32 | 76  | 11485 | 0.20 ug/L # | 87     |
| 15) Methyl Acetate             | 2.47 | 43  | 1613  | 0.25 ug/L # | 85     |
| 16) Methylene chloride         | 2.54 | 84  | 6169  | 0.29 ug/L   | 98     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73  | 8738  | 0.21 ug/L   | 93     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 4090  | 0.22 ug/L   | 93     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 6828  | 0.20 ug/L   | 94     |
| 21) 2-Butanone                 | 4.06 | 43  | 13691 | 2.72 ug/L   | 90     |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 5109  | 0.24 ug/L   | 84     |

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 Misc : 25 mL/MSVOA V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

Manual Integrations  
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apatel  
 8/13/2018 5:35:23 PM

Quant Time: Aug 13 09:13:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 11 00:19:35 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 1788     | 0.21 | ug/L   | 85       |
| 25) Chloroform                  | 4.43  | 83   | 8999     | 0.24 | ug/L   | 94       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 5145     | 0.22 | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 6488     | 0.20 | ug/L   | 98       |
| 30) Cyclohexane                 | 4.73  | 56   | 6003     | 0.18 | ug/L   | 96       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 5027     | 0.19 | ug/L   | 90       |
| 33) Benzene                     | 5.16  | 78   | 17094    | 0.21 | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 3986     | 0.20 | ug/L   | 93       |
| 35) Methylcyclohexane           | 6.18  | 83   | 5323     | 0.17 | ug/L   | 97       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 4493     | 0.20 | ug/L   | 98       |
| 38) Bromodichloromethane        | 6.57  | 83   | 5087     | 0.20 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 4702     | 0.17 | ug/L   | 93       |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 20613    | 1.69 | ug/L # | 89       |
| 42) Toluene                     | 7.44  | 91   | 13933    | 0.18 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 4084m    | 0.18 | ug/L   |          |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 3386     | 0.23 | ug/L   | 92       |
| 47) Tetrachloroethene           | 8.03  | 164  | 3224     | 0.20 | ug/L   | 94       |
| 48) 2-Hexanone                  | 8.20  | 43   | 36179    | 4.21 | ug/L   | 94       |
| 49) Dibromochloromethane        | 8.30  | 129  | 3193     | 0.21 | ug/L   | 95       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 2606     | 0.21 | ug/L # | 95       |
| 51) Chlorobenzene               | 8.93  | 112  | 9572     | 0.19 | ug/L   | 90       |
| 52) Ethylbenzene                | 9.06  | 91   | 13967    | 0.18 | ug/L   | 95       |
| 53) m,p-xylene                  | 9.19  | 106  | 4729     | 0.16 | ug/L   | 75       |
| 54) o-xylene                    | 9.59  | 106  | 4624     | 0.17 | ug/L   | 87       |
| 55) Styrene                     | 9.61  | 104  | 6900     | 0.15 | ug/L   | 90       |
| 56) Isopropylbenzene            | 9.98  | 105  | 11710    | 0.16 | ug/L   | 95       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 3986     | 0.22 | ug/L # | 92       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 2399     | 0.19 | ug/L # | 62       |
| 61) Bromoform                   | 9.78  | 173  | 1615     | 0.22 | ug/L # | 91       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 6913     | 0.22 | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene         | 11.33 | 146  | 6890     | 0.22 | ug/L   | 89       |
| 65) 1,2-Dichlorobenzene         | 11.70 | 146  | 6286     | 0.21 | ug/L # | 88       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.49 | 75   | 503      | 0.23 | ug/L # | 73       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 4445     | 0.19 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 2514     | 0.15 | ug/L   | 94       |
| 69) Naphthalene                 | 13.57 | 128  | 3398     | 0.14 | ug/L # | 93       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 2503     | 0.15 | ug/L   | 88       |

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

