

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV073119\  
 Data File : VV012090.D  
 Acq On : 31 Jul 2019 00:23  
 Operator : SY/MD  
 Sample : MDL07  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL07

Manual Integrations  
 APPROVED

MMdadoda  
 8/1/2019 9:58:43 AM

Quant Time: Jul 31 06:45:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR073119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Jul 31 05:31:06 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 113207   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 109808   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 56181    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 25092    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 94.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 19323    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 41288    | 3.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.60%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 72225    | 48.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.90%  |
| 24) Chloroform-d               | 4.40   | 84    | 67431    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 39731    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.00%  |
| 32) Benzene-d6                 | 5.10   | 84    | 134481   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 36293    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 125323   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 15725    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.60%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 56250    | 48.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.98%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 26837    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 52553    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 101.60% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 3873  | 0.309 ug/L   | 96     |
| 3) Chloromethane               | 1.25 | 50  | 1811  | 0.302 ug/L   | 92     |
| 5) Vinyl chloride              | 1.32 | 62  | 1936  | 0.296 ug/L # | 58     |
| 6) Bromomethane                | 1.54 | 94  | 1274  | 0.314 ug/L   | 89     |
| 8) Chloroethane                | 1.60 | 64  | 1413  | 0.387 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 4038  | 0.318 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 2021  | 0.373 ug/L # | 87     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 1907  | 0.384 ug/L # | 1      |
| 13) Acetone                    | 2.25 | 43  | 2502  | 3.332 ug/L   | 77     |
| 14) Carbon disulfide           | 2.32 | 76  | 4426  | 0.326 ug/L # | 87     |
| 15) Methyl Acetate             | 2.46 | 43  | 541m  | 0.317 ug/L   |        |
| 16) Methylene chloride         | 2.54 | 84  | 2055  | 0.398 ug/L   | 86     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 5060  | 0.306 ug/L # | 91     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 2422  | 0.327 ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 4452  | 0.338 ug/L   | 91     |
| 21) 2-Butanone                 | 4.06 | 43  | 4502m | 3.024 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 2462  | 0.310 ug/L   | 95     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 23) Bromochloromethane          | 4.30  | 128  | 1024     | 0.287 | ug/L   | 94       |
| 25) Chloroform                  | 4.43  | 83   | 11913    | 0.697 | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 3252     | 0.346 | ug/L # | 91       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 4766     | 0.334 | ug/L   | 97       |
| 30) Cyclohexane                 | 4.72  | 56   | 3585     | 0.330 | ug/L   | 94       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 3653     | 0.285 | ug/L   | 100      |
| 33) Benzene                     | 5.14  | 78   | 9349m    | 0.321 | ug/L   |          |
| 34) Trichloroethene             | 5.96  | 95   | 2940     | 0.350 | ug/L   | 81       |
| 35) Methylcyclohexane           | 6.18  | 83   | 3766     | 0.296 | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 2158     | 0.321 | ug/L # | 89       |
| 38) Bromodichloromethane        | 6.56  | 83   | 3173     | 0.321 | ug/L # | 97       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 3112     | 0.297 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 10617    | 2.898 | ug/L # | 84       |
| 42) Toluene                     | 7.43  | 91   | 10507    | 0.330 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 2523     | 0.298 | ug/L   | 93       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 1366     | 0.272 | ug/L   | 85       |
| 47) Tetrachloroethene           | 8.02  | 164  | 2430     | 0.318 | ug/L   | 85       |
| 48) 2-Hexanone                  | 8.19  | 43   | 8016     | 3.145 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 1989     | 0.305 | ug/L   | 86       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 1579     | 0.329 | ug/L # | 96       |
| 51) Chlorobenzene               | 8.93  | 112  | 6709     | 0.311 | ug/L   | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 11712    | 0.319 | ug/L   | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 3770     | 0.268 | ug/L   | 94       |
| 54) o-xylene                    | 9.59  | 106  | 4076     | 0.302 | ug/L   | 88       |
| 55) Styrene                     | 9.60  | 104  | 6160     | 0.269 | ug/L   | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 10485    | 0.281 | ug/L   | 97       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 1693     | 0.306 | ug/L # | 94       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 1175     | 0.281 | ug/L   | 95       |
| 61) Bromoform                   | 9.77  | 173  | 989      | 0.296 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 5614     | 0.324 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 5709     | 0.323 | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 6018     | 0.385 | ug/L # | 87       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 368      | 0.438 | ug/L # | 76       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 4944     | 0.349 | ug/L   | 95       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 3451     | 0.301 | ug/L   | 97       |
| 69) Naphthalene                 | 13.55 | 128  | 4067     | 0.264 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 2831     | 0.278 | ug/L   | 93       |
| -----                           |       |      |          |       |        |          |

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

