

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081519\  
 Data File : VU033804.D  
 Acq On : 15 Aug 2019 11:50  
 Operator : JC/SP  
 Sample : MDL03  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL03

Manual Integrations  
 APPROVED

MMDadoda  
 8/16/2019 12:45:08 PM

Quant Time: Aug 16 12:10:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR081419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 16 01:09:16 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 187420   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 194179   | 5.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 89599    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 83914    | 3.96     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.20% |
| 7) Chloroethane-d5             | 1.67   | 69    | 71243    | 4.30     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.00% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 65    | 38629    | 3.96     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 79.20% |
| 20) 2-Butanone-d5              | 4.19   | 46    | 188652   | 46.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.06% |
| 24) Chloroform-d               | 4.62   | 84    | 134594   | 4.26     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.20% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 74530    | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.00% |
| 32) Benzene-d6                 | 5.32   | 84    | 251021   | 4.21     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.20% |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 83304    | 4.40     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 88.00% |
| 41) Toluene-d8                 | 7.55   | 98    | 210050   | 3.83     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 76.60% |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 31079    | 4.15     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.00% |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 129643   | 43.45    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 86.90% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 70144    | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 85.80% |
| 66) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 86307    | 4.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.00% |

## Target Compounds

|                                |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 5944   | 0.219 ug/L   | 97     |
| 3) Chloromethane               | 1.32 | 50  | 7662   | 0.272 ug/L   | 94     |
| 5) Vinyl chloride              | 1.39 | 62  | 8166   | 0.266 ug/L # | 71     |
| 6) Bromomethane                | 1.62 | 94  | 4855   | 0.271 ug/L   | 93     |
| 8) Chloroethane                | 1.69 | 64  | 4979   | 0.274 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 10666  | 0.253 ug/L   | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 6760   | 0.302 ug/L   | 89     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 6888   | 0.319 ug/L # | 1      |
| 13) Acetone                    | 2.35 | 43  | 14003m | 3.206 ug/L   |        |
| 14) Carbon disulfide           | 2.46 | 76  | 20283  | 0.277 ug/L   | 99     |
| 15) Methyl Acetate             | 2.61 | 43  | 3559m  | 0.313 ug/L   |        |
| 16) Methylene chloride         | 2.68 | 84  | 9862   | 0.391 ug/L   | 88     |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 14262  | 0.255 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 6935   | 0.299 ug/L   | 85     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 9211   | 0.254 ug/L   | 92     |
| 21) 2-Butanone                 | 4.28 | 43  | 11140m | 2.060 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 4868   | 0.246 ug/L   | 88     |

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 16 01:09:16 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane        | 4.53  | 128  | 2293     | 0.242 | ug/L   | 91       |
| 25) Chloroform                | 4.65  | 83   | 14469    | 0.371 | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 5.39  | 62   | 6075     | 0.253 | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 4.89  | 97   | 7743     | 0.245 | ug/L   | 98       |
| 30) Cyclohexane               | 4.97  | 56   | 6038     | 0.211 | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.11  | 117  | 7007     | 0.249 | ug/L   | 96       |
| 33) Benzene                   | 5.37  | 78   | 19888    | 0.256 | ug/L   | 100      |
| 34) Trichloroethene           | 6.17  | 95   | 5331     | 0.262 | ug/L   | 92       |
| 35) Methylcyclohexane         | 6.39  | 83   | 6152     | 0.201 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.42  | 63   | 5430     | 0.259 | ug/L   | 98       |
| 38) Bromodichloromethane      | 6.74  | 83   | 6959     | 0.263 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 7.26  | 75   | 6273     | 0.221 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.45  | 43   | 25316    | 2.087 | ug/L # | 88       |
| 42) Toluene                   | 7.62  | 91   | 19200    | 0.235 | ug/L   | 90       |
| 44) trans-1,3-Dichloropropene | 7.87  | 75   | 5464     | 0.231 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.05  | 97   | 3373     | 0.225 | ug/L   | 95       |
| 47) Tetrachloroethene         | 8.21  | 164  | 4059     | 0.239 | ug/L   | 95       |
| 48) 2-Hexanone                | 8.36  | 43   | 27092    | 3.089 | ug/L   | 96       |
| 49) Dibromochloromethane      | 8.46  | 129  | 4474     | 0.246 | ug/L   | 87       |
| 50) 1,2-Dibromoethane         | 8.57  | 107  | 3523     | 0.243 | ug/L # | 95       |
| 51) Chlorobenzene             | 9.10  | 112  | 12890    | 0.245 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.23  | 91   | 18219    | 0.216 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.36  | 106  | 6433     | 0.202 | ug/L   | 99       |
| 54) o-Xylene                  | 9.76  | 106  | 6086     | 0.201 | ug/L   | 97       |
| 55) Styrene                   | 9.78  | 104  | 9886     | 0.188 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.44 | 83   | 4773     | 0.242 | ug/L # | 96       |
| 59) Isopropylbenzene          | 10.15 | 105  | 15013    | 0.220 | ug/L   | 99       |
| 60) Bromoform                 | 9.94  | 173  | 2565     | 0.280 | ug/L # | 94       |
| 61) 1,2,3-Trichloropropane    | 10.48 | 75   | 3323     | 0.279 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 10.76 | 105  | 10789    | 0.195 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.13 | 105  | 10944    | 0.198 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.40 | 146  | 9517     | 0.261 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.49 | 146  | 10557    | 0.281 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 11.86 | 146  | 9897     | 0.281 | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene    | 12.87 | 180  | 6923     | 0.241 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.50 | 180  | 4360     | 0.195 | ug/L   | 96       |
| 71) Naphthalene               | 13.74 | 128  | 6336m    | 0.184 | ug/L   |          |
| 72) 1,2,3-Trichlorobenzene    | 13.98 | 180  | 4586     | 0.218 | ug/L   | 96       |

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

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