

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\U110519\  
 Data File : VU035635.D  
 Acq On : 05 Nov 2019 16:55  
 Operator : JC/SP  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05036

Quant Time: Nov 06 03:07:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 06 03:03:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.30  | 114  | 664392   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 653795   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 302960   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.62    | 65    | 203660   | 37.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 75.90% |
| 7) Chloroethane-d5             | 1.93    | 69    | 178433   | 41.64    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.28% |
| 11) 1,1-Dichloroethene-d2      | 2.60    | 63    | 348250   | 41.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.46% |
| 21) 2-Butanone-d5              | 4.69    | 46    | 300846   | 95.98    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.98% |
| 24) Chloroform-d               | 5.12    | 84    | 388255   | 46.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.70% |
| 26) 1,2-Dichloroethane-d4      | 5.75    | 65    | 228993   | 45.11    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.22% |
| 32) Benzene-d6                 | 5.77    | 84    | 767729   | 45.05    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.10% |
| 36) 1,2-Dichloropropane-d6     | 6.74    | 67    | 253743   | 45.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 91.82% |
| 41) Toluene-d8                 | 7.93    | 98    | 713805   | 44.41    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.82% |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 116841   | 45.90    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.80% |
| 47) 2-Hexanone-d5              | 8.68    | 63    | 206077   | 97.29    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.29% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79   | 84    | 379154   | 48.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.48% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22   | 152   | 272900   | 44.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.32% |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.40 | 85  | 245299 | 47.342 | ug/L 100 |
| 3) Chloromethane               | 1.54 | 50  | 266287 | 47.156 | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 284411 | 46.809 | ug/L 99  |
| 6) Bromomethane                | 1.87 | 94  | 155651 | 50.577 | ug/L 94  |
| 8) Chloroethane                | 1.95 | 64  | 169484 | 47.960 | ug/L 98  |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 356123 | 49.480 | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 208179 | 50.383 | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 196576 | 48.436 | ug/L 97  |
| 13) Acetone                    | 2.67 | 43  | 244681 | 88.724 | ug/L 99  |
| 14) Carbon disulfide           | 2.83 | 76  | 558203 | 44.643 | ug/L 99  |
| 15) Methyl Acetate             | 2.99 | 43  | 238392 | 47.726 | ug/L 98  |
| 16) Methylene chloride         | 3.09 | 84  | 241135 | 48.694 | ug/L 95  |
| 17) trans-1,2-Dichloroethene   | 3.40 | 96  | 208645 | 48.818 | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 3.42 | 73  | 650954 | 50.377 | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 403934 | 48.995 | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.72 | 96  | 242961 | 50.400 | ug/L 96  |
| 22) 2-Butanone                 | 4.77 | 43  | 351326 | 96.506 | ug/L 98  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 5.03  | 128  | 130173   | 51.101 | ug/L  | 95       |
| 25) Chloroform                 | 5.14  | 83   | 414185   | 49.466 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.84  | 62   | 302443   | 49.441 | ug/L  | 99       |
| 29) Cyclohexane                | 5.43  | 56   | 327819   | 49.158 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 5.37  | 97   | 345635   | 50.298 | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.57  | 117  | 307397   | 50.309 | ug/L  | 99       |
| 33) Benzene                    | 5.82  | 78   | 918561   | 49.991 | ug/L  | 100      |
| 34) Trichloroethene            | 6.58  | 95   | 225914   | 48.362 | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.80  | 83   | 343170   | 50.583 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.84  | 63   | 248309   | 50.464 | ug/L  | 100      |
| 38) Bromodichloromethane       | 7.15  | 83   | 307078   | 49.098 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.65  | 75   | 375163   | 51.295 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.84  | 43   | 630962   | 95.850 | ug/L  | 98       |
| 42) Toluene                    | 8.01  | 91   | 1004260  | 52.148 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.25  | 75   | 337852   | 50.394 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.44  | 97   | 237325   | 50.320 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.58  | 164  | 199567   | 51.093 | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.73  | 43   | 489215   | 91.388 | ug/L  | 92       |
| 49) Dibromochloromethane       | 8.84  | 129  | 273369   | 51.398 | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.96  | 107  | 257233   | 51.120 | ug/L  | 99       |
| 51) Chlorobenzene              | 9.48  | 112  | 654244   | 50.889 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.60  | 91   | 1051178  | 51.058 | ug/L  | 98       |
| 53) m,p-Xylene                 | 9.73  | 106  | 413795   | 53.563 | ug/L  | 95       |
| 54) o-xylene                   | 10.13 | 106  | 402121   | 53.256 | ug/L  | 100      |
| 55) Styrene                    | 10.14 | 104  | 664090   | 52.996 | ug/L  | 98       |
| 56) Isopropylbenzene           | 10.51 | 105  | 1012793  | 53.377 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 409372   | 50.392 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 317828   | 49.538 | ug/L  | 99       |
| 61) Bromoform                  | 10.32 | 173  | 214647   | 46.441 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 459996   | 48.130 | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.86 | 146  | 445714   | 45.907 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 460380   | 47.316 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 66002    | 43.751 | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 244425   | 44.267 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 132513   | 35.827 | ug/L  | 98       |
| 69) Naphthalene                | 14.11 | 128  | 295406   | 31.138 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 146078   | 36.655 | ug/L  | 99       |

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

