

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022719\  
 Data File : VU029710.D  
 Acq On : 27 Feb 2019 17:40  
 Operator : JC/SP  
 Sample : K1623-01DL 5X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09R3DL

Quant Time: Feb 28 02:49:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 28 00:50:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.90  | 114  | 2306     | 50.00 | ug/L  | 0.02     |
| 28) Chlorobenzene-d5       | 9.10  | 117  | 3280     | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 5073     | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 548      | 32.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 64.86%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 174      | 11.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 23.16%# |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 1305     | 39.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.02%  |
| 21) 2-Butanone-d5              | 0.00    | 46    | 0        | 0.00     | ug/L |         |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 0.00%#  |
| 24) Chloroform-d               | 4.67    | 84    | 23       | 0.84     | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 1.68%#  |
| 26) 1,2-Dichloroethane-d4      | 5.32    | 65    | 1050     | 60.51    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 121.02% |
| 32) Benzene-d6                 | 5.34    | 84    | 1036     | 12.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 25.10%# |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 73       | 2.94     | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 5.88%#  |
| 41) Toluene-d8                 | 7.57    | 98    | 2761     | 32.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 65.56%# |
| 43) trans-1,3-Dichloropropene- | 7.86    | 79    | 126      | 9.57     | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 19.14%# |
| 47) 2-Hexanone-d5              | 8.34    | 63    | 165      | 11.93    | ug/L | 0.04    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 11.93%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 1348     | 32.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 64.26%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.48   | 152   | 4425     | 40.48    | ug/L | -0.38   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 80.96%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|------|------|----------|---------|--------|--------|
| 6) Bromomethane                | 1.63 | 94   | 523      | 60.833  | ug/L   | 89     |
| 8) Chloroethane                | 1.74 | 64   | 223      | 17.798  | ug/L # | 66     |
| 9) Trichlorofluoromethane      | 1.89 | 101  | 297      | 9.890   | ug/L # | 59     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101  | 233      | 14.506  | ug/L # | 78     |
| 12) 1,1-Dichloroethene         | 2.28 | 96   | 437      | 28.617  | ug/L # | 75     |
| 13) Acetone                    | 2.32 | 43   | 7161     | 651.698 | ug/L   | 97     |
| 14) Carbon disulfide           | 2.48 | 76   | 4329     | 108.242 | ug/L # | 93     |
| 15) Methyl Acetate             | 2.60 | 43   | 44       | 3.085   | ug/L # | 48     |
| 16) Methylene chloride         | 2.70 | 84   | 2472     | 167.291 | ug/L   | 99     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96   | 272      | 19.298  | ug/L   | 91     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73   | 47       | 1.077   | ug/L # | 1      |
| 20) cis-1,2-Dichloroethene     | 4.25 | 96   | 64       | 3.908   | ug/L   | 77     |
| 22) 2-Butanone                 | 4.26 | 43   | 68       | 5.423   | ug/L # | 44     |
| 25) Chloroform                 | 4.67 | 83   | 172      | 6.325   | ug/L   | 92     |
| 27) 1,2-Dichloroethane         | 5.41 | 62   | 50       | 2.392   | ug/L # | 73     |
| 29) Cyclohexane                | 5.01 | 56   | 254      | 7.825   | ug/L # | 34     |
| 33) Benzene                    | 5.40 | 78   | 3965     | 47.149  | ug/L   | 100    |

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 ALS Vial : 34 Sample Multiplier: 1

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 MSVOA\_U  
 ClientSampleId :  
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 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 28 00:50:18 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| -----                         |       |      |          |          |        |          |
| 34) Trichloroethene           | 6.19  | 95   | 537      | 23.704   | ug/L # | 79       |
| 35) Methylcyclohexane         | 6.41  | 83   | 412      | 10.951   | ug/L # | 90       |
| 38) Bromodichloromethane      | 6.75  | 83   | 43       | 1.445    | ug/L # | 26       |
| 39) cis-1,3-Dichloropropene   | 7.27  | 75   | 123      | 3.454    | ug/L # | 43       |
| 40) 4-Methyl-2-pentanone      | 7.48  | 43   | 592      | 19.071   | ug/L # | 42       |
| 42) Toluene                   | 7.64  | 91   | 1313     | 13.203   | ug/L   | 83       |
| 44) trans-1,3-Dichloropropene | 7.89  | 75   | 324      | 9.653    | ug/L # | 43       |
| 45) 1,1,2-Trichloroethane     | 8.08  | 97   | 87       | 3.698    | ug/L # | 16       |
| 46) Tetrachloroethene         | 8.23  | 164  | 520      | 23.452   | ug/L   | 88       |
| 48) 2-Hexanone                | 8.38  | 43   | 2170     | 80.021   | ug/L # | 93       |
| 49) Dibromochloromethane      | 8.49  | 129  | 42       | 1.472    | ug/L # | 59       |
| 50) 1,2-Dibromoethane         | 8.60  | 107  | 292      | 11.201   | ug/L # | 66       |
| 51) Chlorobenzene             | 9.12  | 112  | 62027    | 908.724  | ug/L   | 99       |
| 52) Ethylbenzene              | 9.25  | 91   | 2216     | 19.620   | ug/L   | 97       |
| 53) m,p-Xylene                | 9.39  | 106  | 629      | 13.873   | ug/L   | 64       |
| 54) o-xylene                  | 9.77  | 106  | 171      | 3.755    | ug/L   | 73       |
| 55) Styrene                   | 9.80  | 104  | 1712     | 22.268   | ug/L # | 69       |
| 56) Isopropylbenzene          | 10.17 | 105  | 1915     | 16.069   | ug/L # | 87       |
| 58) 1,1,2,2-Tetrachloroethane | 10.46 | 83   | 531      | 12.762   | ug/L # | 89       |
| 59) 1,2,3-Trichloropropane    | 10.50 | 75   | 665      | 21.128   | ug/L # | 70       |
| 61) Bromoform                 | 9.96  | 173  | 84       | 1.230    | ug/L # | 36       |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146  | 10884    | 67.290   | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene       | 11.50 | 146  | 76127    | 467.686  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene       | 11.88 | 146  | 355655   | 2106.458 | ug/L   | 99       |
| 67) 1,3,5-Trichlorobenzene    | 13.50 | 180  | 61050    | 494.612  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene    | 13.50 | 180  | 61050    | 571.864  | ug/L   | 97       |
| 69) Naphthalene               | 13.75 | 128  | 29155    | 88.850   | ug/L   | 96       |
| 70) 1,2,3-Trichlorobenzene    | 13.99 | 180  | 48651    | 429.142  | ug/L   | 98       |
| -----                         |       |      |          |          |        |          |

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

