

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101921\  
 Data File : VU045336.D  
 Acq On : 19 Oct 2021 17:55  
 Operator : SY/MD  
 Sample : MDL02  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Manual Integrations  
 APPROVED

MMDadoda  
 10/20/2021 3:47:01 PM

Quant Time: Oct 20 03:10:01 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 20 02:57:45 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 288286   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 292656   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.816  | 152   | 134894   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600   | 65    | 54612    | 43.486   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 86.980%  |
| 7) Chloroethane-d5            | 1.874   | 69    | 23776    | 19.812   | ug/L   | -0.04    |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 39.620%# |
| 11) 1,1-Dichloroethene-d2     | 2.555   | 63    | 69508    | 27.797   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 55.600%# |
| 21) 2-Butanone-d5             | 4.629   | 46    | 199592   | 106.474  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 106.470% |
| 24) Chloroform-d              | 5.063   | 84    | 152477   | 45.652   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.300%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 110035   | 48.197   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.400%  |
| 32) Benzene-d6                | 5.729   | 84    | 258021   | 46.875   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.740%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 103131   | 48.198   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 96.400%  |
| 41) Toluene-d8                | 7.899   | 98    | 212730   | 45.310   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 90.620%  |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 50802    | 46.774   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.540%  |
| 47) 2-Hexanone-d5             | 8.639   | 63    | 160927   | 119.866  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 119.870% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.761  | 84    | 233985   | 57.844   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 115.680% |
| 66) 1,2-Dichlorobenzene-d4    | 12.198  | 152   | 123475   | 52.757   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 105.520% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 4167     | 1.983    | ug/L   | 93       |
| 3) Chloromethane              | 1.520   | 50    | 6137     | 2.580    | ug/L   | 94       |
| 5) Vinyl chloride             | 1.604   | 62    | 5605     | 2.131    | ug/L # | 31       |
| 6) Bromomethane               | 1.829   | 94    | 1632     | 1.172    | ug/L   | 93       |
| 8) Chloroethane               | 1.896   | 64    | 5347     | 3.236    | ug/L   | 83       |
| 9) Trichlorofluoromethane     | 2.112   | 101   | 6107     | 1.909    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.568   | 101   | 4389     | 2.158    | ug/L   | 91       |
| 12) 1,1-Dichloroethene        | 2.568   | 96    | 4166     | 2.222    | ug/L # | 1        |
| 13) Acetone                   | 2.636   | 43    | 7287     | 3.339    | ug/L   | 93       |
| 14) Carbon disulfide          | 2.780   | 76    | 10160    | 1.972    | ug/L   | 98       |
| 15) Methyl Acetate            | 2.954   | 43    | 8196     | 3.028    | ug/L   | 92       |
| 16) Methylene chloride        | 3.047   | 84    | 5578     | 2.310    | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 3952     | 1.965    | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 14414    | 2.055    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 8631     | 2.097    | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.668   | 96    | 4728     | 2.052    | ug/L   | 92       |
| 22) 2-Butanone                | 4.716   | 43    | 8468     | 3.518    | ug/L   | 79       |
| 23) Bromochloromethane        | 4.977   | 128   | 2297     | 2.024    | ug/L   | 95       |
| 25) Chloroform                | 5.089   | 83    | 11167    | 2.666    | ug/L   | 96       |

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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.796  | 62   | 7584     | 2.267 | ug/L   | 99       |
| 29) Cyclohexane               | 5.385  | 56   | 6278     | 1.807 | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 5.317  | 97   | 6752     | 1.955 | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 4881     | 1.831 | ug/L   | 98       |
| 33) Benzene                   | 5.774  | 78   | 18545    | 2.035 | ug/L   | 100      |
| 34) Trichloroethene           | 6.542  | 95   | 4444     | 1.978 | ug/L   | 92       |
| 35) Methylcyclohexane         | 6.767  | 83   | 6312     | 1.789 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.793  | 63   | 4942     | 1.994 | ug/L # | 88       |
| 38) Bromodichloromethane      | 7.108  | 83   | 5982     | 1.866 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 7.610  | 75   | 7206     | 1.942 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.800  | 43   | 16686    | 4.415 | ug/L   | 99       |
| 42) Toluene                   | 7.973  | 91   | 21782    | 2.292 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.214  | 75   | 7514m    | 2.118 | ug/L   |          |
| 45) 1,1,2-Trichloroethane     | 8.404  | 97   | 5150     | 2.168 | ug/L   | 95       |
| 46) Tetrachloroethene         | 8.555  | 164  | 3000     | 1.928 | ug/L   | 96       |
| 48) 2-Hexanone                | 8.690  | 43   | 18382    | 5.762 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.816  | 129  | 4764     | 2.059 | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.928  | 107  | 4995     | 2.043 | ug/L # | 98       |
| 51) Chlorobenzene             | 9.449  | 112  | 12419    | 2.063 | ug/L   | 98       |
| 52) Ethylbenzene              | 9.571  | 91   | 19760    | 1.916 | ug/L   | 100      |
| 53) m,p-Xylene                | 9.697  | 106  | 7278     | 1.857 | ug/L   | 87       |
| 54) o-xylene                  | 10.105 | 106  | 7865     | 2.000 | ug/L   | 99       |
| 55) Styrene                   | 10.118 | 104  | 12170    | 1.829 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 10849    | 2.586 | ug/L # | 97       |
| 59) Bromoform                 | 10.298 | 173  | 3423     | 2.315 | ug/L # | 93       |
| 60) 1,2,3-Trichloropropane    | 10.828 | 75   | 8608     | 2.779 | ug/L   | 97       |
| 61) Isopropylbenzene          | 10.484 | 105  | 18727    | 2.033 | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 14526    | 1.906 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.471 | 105  | 14906    | 1.932 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.751 | 146  | 8766     | 2.102 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.838 | 146  | 9266     | 2.190 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.214 | 146  | 9708     | 2.302 | ug/L   | 93       |
| 68) 1,2-Dibromo-3-chloropr... | 12.999 | 75   | 1611     | 1.868 | ug/L   | 88       |
| 69) 1,3,5-Trichlorobenzene    | 13.224 | 180  | 5499     | 1.916 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.844 | 180  | 4184     | 1.739 | ug/L   | 98       |
| 71) Naphthalene               | 14.092 | 128  | 14778    | 1.838 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 4303     | 1.790 | ug/L   | 99       |

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

