

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111121\  
 Data File : VX025139.D  
 Acq On : 11 Nov 2021 19:50  
 Operator : JC/MD  
 Sample : VSTDCC050EC  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050705

Quant Time: Nov 12 05:09:12 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM111121WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 12 05:08:01 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/12/2021  
 Supervised By : Mahesh Dadoda 11/12/2021

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|---------|-------|----------|----------|--------|-----------|
| -----                         |         |       |          |          |        |           |
| Internal Standards            |         |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.763   | 114   | 193879   | 50.000   | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 176301   | 50.000   | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 89890    | 50.000   | ug/L   | 0.00      |
| System Monitoring Compounds   |         |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 65791    | 50.229   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 100.460%  |
| 7) Chloroethane-d5            | 1.666   | 69    | 51867    | 69.480   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 138.960%# |
| 11) 1,1-Dichloroethene-d2     | 2.306   | 63    | 112265   | 49.834   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 99.660%   |
| 21) 2-Butanone-d5             | 4.459   | 46    | 107388   | 108.493  | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 108.490%  |
| 24) Chloroform-d              | 5.062   | 84    | 118386   | 51.378   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.760%  |
| 26) 1,2-Dichloroethane-d4     | 5.958   | 65    | 70604    | 50.551   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.100%  |
| 32) Benzene-d6                | 5.977   | 84    | 245930   | 51.110   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.220%  |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 75156    | 51.153   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 102.300%  |
| 41) Toluene-d8                | 8.653   | 98    | 228059   | 49.631   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 99.260%   |
| 43) trans-1,3-Dichloroprop... | 8.952   | 79    | 39639    | 49.700   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 99.400%   |
| 47) 2-Hexanone-d5             | 9.384   | 63    | 83242    | 105.508  | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 105.510%  |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195  | 84    | 107515   | 50.807   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 101.620%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 91866    | 51.554   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.100%  |
| Target Compounds              |         |       |          |          |        |           |
|                               |         |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.166   | 85    | 76657    | 50.590   | ug/L   | 99        |
| 3) Chloromethane              | 1.288   | 50    | 81390    | 49.615   | ug/L   | 90        |
| 5) Vinyl chloride             | 1.374   | 62    | 85166    | 50.345   | ug/L   | 99        |
| 6) Bromomethane               | 1.605   | 94    | 34952    | 53.843   | ug/L   | 96        |
| 8) Chloroethane               | 1.685   | 64    | 49926    | 58.772   | ug/L   | 100       |
| 9) Trichlorofluoromethane     | 1.886   | 101   | 124509   | 50.424   | ug/L   | 98        |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.331   | 101   | 63206    | 49.398   | ug/L   | 96        |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 61363    | 49.640   | ug/L   | 88        |
| 13) Acetone                   | 2.386   | 43    | 70800    | 76.253   | ug/L   | 99        |
| 14) Carbon disulfide          | 2.514   | 76    | 180726   | 47.450   | ug/L   | 100       |
| 15) Methyl Acetate            | 2.703   | 43    | 75785m   | 50.134   | ug/L   |           |
| 16) Methylene chloride        | 2.788   | 84    | 66451    | 48.595   | ug/L   | 82        |
| 17) trans-1,2-Dichloroethene  | 3.093   | 96    | 64915    | 48.354   | ug/L   | 88        |
| 18) Methyl tert-butyl Ether   | 3.117   | 73    | 210634   | 50.197   | ug/L # | 89        |
| 19) 1,1-Dichloroethane        | 3.611   | 63    | 113145   | 49.824   | ug/L   | 96        |
| 20) cis-1,2-Dichloroethene    | 4.495   | 96    | 73544    | 49.511   | ug/L   | 99        |
| 22) 2-Butanone                | 4.562   | 43    | 113808   | 92.081   | ug/L   | 85        |
| 23) Bromochloromethane        | 4.904   | 128   | 38242    | 50.007   | ug/L # | 75        |
| 25) Chloroform                | 5.099   | 83    | 116237   | 49.939   | ug/L   | 100       |

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 Quant Title : VOC Analysis  
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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 6.092  | 62   | 85700    | 50.217  | ug/L # | 89       |
| 29) Cyclohexane               | 5.477  | 56   | 110036   | 48.853  | ug/L   | 86       |
| 30) 1,1,1-Trichloroethane     | 5.391  | 97   | 108209   | 49.948  | ug/L # | 94       |
| 31) Carbon tetrachloride      | 5.684  | 117  | 97250    | 50.837  | ug/L   | 100      |
| 33) Benzene                   | 6.044  | 78   | 268644   | 49.597  | ug/L   | 100      |
| 34) Trichloroethene           | 7.129  | 95   | 69108    | 48.824  | ug/L   | 83       |
| 35) Methylcyclohexane         | 7.385  | 83   | 115286   | 48.166  | ug/L   | 93       |
| 37) 1,2-Dichloropropane       | 7.434  | 63   | 68040    | 50.144  | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.824  | 83   | 91095    | 49.610  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 8.372  | 75   | 108862   | 48.861  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 8.580  | 43   | 218848   | 101.484 | ug/L # | 84       |
| 42) Toluene                   | 8.720  | 91   | 292189   | 49.664  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.982  | 75   | 105983   | 48.878  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 68519    | 50.008  | ug/L   | 99       |
| 46) Tetrachloroethene         | 9.275  | 164  | 58623    | 49.641  | ug/L   | 89       |
| 48) 2-Hexanone                | 9.433  | 43   | 170907   | 96.688  | ug/L # | 84       |
| 49) Dibromochloromethane      | 9.525  | 129  | 78743    | 50.344  | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 73417    | 50.067  | ug/L # | 97       |
| 51) Chlorobenzene             | 10.079 | 112  | 186652   | 49.376  | ug/L   | 98       |
| 52) Ethylbenzene              | 10.195 | 91   | 312334   | 49.388  | ug/L   | 92       |
| 53) m,p-Xylene                | 10.305 | 106  | 125264   | 48.992  | ug/L   | 79       |
| 54) o-Xylene                  | 10.646 | 106  | 124256   | 49.249  | ug/L   | 85       |
| 55) Styrene                   | 10.659 | 104  | 211402   | 49.344  | ug/L   | 82       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 106150   | 48.796  | ug/L   | 97       |
| 59) Bromoform                 | 10.805 | 173  | 60222    | 49.573  | ug/L # | 94       |
| 60) Isopropylbenzene          | 10.963 | 105  | 320961   | 49.935  | ug/L   | 95       |
| 61) 1,2,3-Trichloropropane    | 11.244 | 75   | 84023    | 49.641  | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 11.457 | 105  | 271568   | 49.797  | ug/L   | 88       |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 267767m  | 48.940  | ug/L   |          |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 144420   | 49.289  | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 12.043 | 146  | 144212   | 49.263  | ug/L   | 92       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 144267   | 49.573  | ug/L   | 95       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 25314    | 51.710  | ug/L # | 69       |
| 69) 1,3,5-Trichlorobenzene    | 13.116 | 180  | 104024   | 49.073  | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 95253    | 51.514  | ug/L   | 96       |
| 71) Naphthalene               | 13.780 | 128  | 338924   | 54.053  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 96708    | 52.757  | ug/L   | 95       |

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

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