

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121021\  
 Data File : VX025692.D  
 Acq On : 10 Dec 2021 11:03  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050725

Quant Time: Dec 10 23:27:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML112221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 10 04:16:38 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.763          | 114  | 119827     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055         | 117  | 112859     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 57610      | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368          | 65   | 36403      | 44.515   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 89.040%  |        |          |
| 7) Chloroethane-d5            | 1.666          | 69   | 30039      | 44.507   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 89.020%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.306          | 63   | 67208      | 51.544   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 103.080% |        |          |
| 21) 2-Butanone-d5             | 4.452          | 46   | 49304      | 80.993   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 80.990%  |        |          |
| 24) Chloroform-d              | 5.056          | 84   | 69449      | 48.592   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 97.180%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.958          | 65   | 43774      | 49.137   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 98.280%  |        |          |
| 32) Benzene-d6                | 5.977          | 84   | 138018     | 46.143   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 92.280%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 7.312          | 67   | 41365      | 44.667   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 89.340%  |        |          |
| 41) Toluene-d8                | 8.647          | 98   | 132055     | 46.774   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 93.540%  |        |          |
| 43) trans-1,3-Dichloroprop... | 8.952          | 79   | 21300      | 45.747   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 91.500%  |        |          |
| 47) 2-Hexanone-d5             | 9.384          | 63   | 36418      | 75.546   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 75.550%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195         | 84   | 57981      | 44.300   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 88.600%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.323         | 152  | 51081      | 45.207   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 90.420%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.166          | 85   | 36476      | 51.873   | ug/L   | 99       |
| 3) Chloromethane              | 1.294          | 50   | 34439      | 47.451   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.374          | 62   | 37287      | 44.007   | ug/L   | 100      |
| 6) Bromomethane               | 1.605          | 94   | 23257      | 52.469   | ug/L   | 98       |
| 8) Chloroethane               | 1.685          | 64   | 24523      | 43.447   | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 1.886          | 101  | 62529      | 47.291   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.331          | 101  | 35950      | 51.774   | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 2.319          | 96   | 31735      | 49.320   | ug/L   | 88       |
| 13) Acetone                   | 2.380          | 43   | 52653      | 105.191  | ug/L   | 99       |
| 14) Carbon disulfide          | 2.514          | 76   | 77347      | 48.887   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.703          | 43   | 37832      | 46.767   | ug/L # | 90       |
| 16) Methylene chloride        | 2.788          | 84   | 36871      | 49.543   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 3.093          | 96   | 33706      | 48.656   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.117          | 73   | 112790     | 47.904   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.611          | 63   | 61515      | 49.585   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.489          | 96   | 39179      | 47.993   | ug/L   | 99       |
| 22) 2-Butanone                | 4.556          | 43   | 64583      | 97.561   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.904          | 128  | 20751      | 48.115   | ug/L   | 97       |
| 25) Chloroform                | 5.093          | 83   | 68832      | 50.983   | ug/L   | 99       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050725

Quant Time: Dec 10 23:27:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML112221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 10 04:16:38 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 6.086  | 62   | 50429    | 51.355 | ug/L   | 100      |
| 29) Cyclohexane               | 5.471  | 56   | 52856    | 45.714 | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 5.385  | 97   | 60652    | 48.683 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.678  | 117  | 54187    | 48.706 | ug/L   | 99       |
| 33) Benzene                   | 6.037  | 78   | 140612   | 46.638 | ug/L   | 100      |
| 34) Trichloroethene           | 7.123  | 95   | 38643    | 48.729 | ug/L   | 94       |
| 35) Methylcyclohexane         | 7.379  | 83   | 57909    | 46.396 | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 7.427  | 63   | 35239    | 46.598 | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.824  | 83   | 53043    | 50.367 | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene   | 8.366  | 75   | 57641    | 46.797 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 108869   | 90.156 | ug/L   | 98       |
| 42) Toluene                   | 8.720  | 91   | 156490   | 47.064 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 8.976  | 75   | 55728    | 47.074 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 37879    | 47.200 | ug/L   | 96       |
| 46) Tetrachloroethene         | 9.275  | 164  | 30650    | 45.574 | ug/L   | 98       |
| 48) 2-Hexanone                | 9.433  | 43   | 91670    | 94.517 | ug/L   | 99       |
| 49) Dibromochloromethane      | 9.525  | 129  | 45157    | 48.820 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 40215    | 47.017 | ug/L   | 98       |
| 51) Chlorobenzene             | 10.079 | 112  | 105288   | 48.004 | ug/L   | 99       |
| 52) Ethylbenzene              | 10.195 | 91   | 175625   | 49.146 | ug/L   | 97       |
| 53) m,p-Xylene                | 10.305 | 106  | 69386    | 47.935 | ug/L   | 99       |
| 54) o-Xylene                  | 10.640 | 106  | 67357    | 46.486 | ug/L   | 93       |
| 55) Styrene                   | 10.659 | 104  | 116360   | 48.329 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 57974    | 46.783 | ug/L   | 99       |
| 59) Bromoform                 | 10.799 | 173  | 33153    | 46.639 | ug/L   | 99       |
| 60) Isopropylbenzene          | 10.963 | 105  | 178867   | 48.311 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 46748    | 47.435 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 152962   | 49.396 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 151379   | 48.382 | ug/L # | 80       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 83652    | 49.205 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 12.043 | 146  | 82718    | 48.169 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 83236    | 48.419 | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 12792    | 46.704 | ug/L   | 94       |
| 69) 1,3,5-Trichlorobenzene    | 13.115 | 180  | 56781    | 45.911 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 48739    | 46.883 | ug/L   | 98       |
| 71) Naphthalene               | 13.774 | 128  | 168282   | 47.756 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 50288    | 47.219 | ug/L   | 99       |

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

```
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Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 2      Sample Multiplier: 1
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MSVOA\_X  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXMLM112221WMA.M  
Quant Title : VOC Analysis  
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