

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU091523\  
 Data File : VU055335.D  
 Acq On : 15 Sep 2023 12:51  
 Operator : MD/SY  
 Sample : VSTD0.555  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.5055

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 09/20/2023  
 Supervised By :Semsettin Yesilyurt 09/20/2023

Quant Time: Sep 16 00:15:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR091523WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Sep 16 00:14:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 6.248  | 114  | 193395   | 5.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.418  | 117  | 204269   | 5.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810 | 152  | 96372    | 5.000 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 1.595  | 65   | 5126     | 0.469 | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 1.911  | 69   | 5571     | 0.617 | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.566  | 65   | 1702     | 0.365 | ug/L   | 0.00     |
| 20) 2-Butanone-d5             | 4.650  | 46   | 11793    | 5.478 | ug/L   | 0.02     |
| 24) Chloroform-d              | 5.062  | 84   | 10601    | 0.497 | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.708  | 65   | 5186     | 0.518 | ug/L   | 0.00     |
| 32) Benzene-d6                | 5.730  | 84   | 16778    | 0.390 | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.695  | 67   | 5897     | 0.458 | ug/L   | 0.00     |
| 41) Toluene-d8                | 7.897  | 98   | 14690    | 0.368 | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 8.187  | 79   | 1877     | 0.377 | ug/L   | 0.00     |
| 46) 2-Hexanone-d5             | 8.637  | 63   | 6315     | 4.031 | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.756 | 84   | 5057     | 0.521 | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 12.196 | 152  | 5323     | 0.436 | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.383  | 85   | 9566     | 0.621 | ug/L   | 97       |
| 3) Chloromethane              | 1.518  | 50   | 8593     | 0.591 | ug/L # | 83       |
| 5) Vinyl chloride             | 1.602  | 62   | 9867     | 0.644 | ug/L   | 99       |
| 6) Bromomethane               | 1.853  | 94   | 7415     | 0.743 | ug/L   | 100      |
| 8) Chloroethane               | 1.930  | 64   | 8393     | 0.806 | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.136  | 101  | 15285    | 0.625 | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.579  | 101  | 8507     | 0.629 | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 2.583  | 96   | 7162     | 0.592 | ug/L # | 76       |
| 14) Carbon disulfide          | 2.792  | 76   | 22013    | 0.680 | ug/L   | 98       |
| 15) Methyl Acetate            | 2.965  | 43   | 2414m    | 0.539 | ug/L   |          |
| 16) Methylene chloride        | 3.046  | 84   | 14257    | 0.878 | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 3.357  | 73   | 15908    | 0.528 | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.354  | 96   | 7581     | 0.604 | ug/L   | 93       |
| 19) 1,1-Dichloroethane        | 3.865  | 63   | 15239    | 0.608 | ug/L   | 98       |
| 21) 2-Butanone                | 4.724  | 43   | 15903    | 4.795 | ug/L # | 65       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96   | 9579     | 0.655 | ug/L   | 92       |
| 23) Bromochloromethane        | 4.978  | 128  | 3434     | 0.546 | ug/L # | 84       |
| 25) Chloroform                | 5.084  | 83   | 16674    | 0.614 | ug/L   | 93       |
| 27) 1,2-Dichloroethane        | 5.795  | 62   | 10202    | 0.646 | ug/L # | 90       |
| 29) 1,1,1-Trichloroethane     | 5.316  | 97   | 12743    | 0.498 | ug/L   | 98       |
| 30) Cyclohexane               | 5.389  | 56   | 12152    | 0.563 | ug/L   | 94       |
| 31) Carbon tetrachloride      | 5.521  | 117  | 10769    | 0.491 | ug/L   | 98       |
| 33) Benzene                   | 5.775  | 78   | 32819    | 0.552 | ug/L   | 100      |
| 34) Trichloroethene           | 6.544  | 95   | 10457    | 0.648 | ug/L   | 89       |
| 35) Methylcyclohexane         | 6.762  | 83   | 13392    | 0.562 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 8612     | 0.551 | ug/L # | 91       |
| 38) Bromodichloromethane      | 7.106  | 83   | 10732    | 0.551 | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene   | 7.608  | 75   | 11135    | 0.490 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 7.791  | 43   | 40236    | 5.177 | ug/L   | 99       |
| 42) Toluene                   | 7.968  | 91   | 34350    | 0.540 | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene | 8.216  | 75   | 8730     | 0.474 | ug/L   | 95       |
| 45) 1,1,2-Trichloroethane     | 8.399  | 97   | 6119     | 0.554 | ug/L   | 97       |

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.5055

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Quant Time: Sep 16 00:15:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR091523WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Sep 16 00:14:42 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 47) Tetrachloroethene         | 8.553  | 164  | 6525     | 0.515 | ug/L   | 98       |
| 48) 2-Hexanone                | 8.688  | 43   | 30131    | 5.079 | ug/L # | 94       |
| 49) Dibromochloromethane      | 8.807  | 129  | 5872     | 0.481 | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.926  | 107  | 5321     | 0.517 | ug/L # | 87       |
| 51) Chlorobenzene             | 9.447  | 112  | 24193    | 0.570 | ug/L   | 98       |
| 52) Ethylbenzene              | 9.569  | 91   | 36619    | 0.518 | ug/L   | 95       |
| 53) m,p-Xylene                | 9.695  | 106  | 13417    | 0.500 | ug/L   | 90       |
| 54) o-Xylene                  | 10.100 | 106  | 12404    | 0.471 | ug/L   | 91       |
| 55) Styrene                   | 10.116 | 104  | 20597    | 0.478 | ug/L   | 93       |
| 57) 1,1,2,2-Tetrachloroethane | 10.785 | 83   | 6637     | 0.509 | ug/L   | 99       |
| 59) Bromoform                 | 10.293 | 173  | 2705     | 0.449 | ug/L # | 98       |
| 60) Isopropylbenzene          | 10.486 | 105  | 35447    | 0.583 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 10.823 | 75   | 5369     | 0.672 | ug/L   | 93       |
| 62) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 26395    | 0.541 | ug/L   | 93       |
| 63) 1,2,4-Trimethylbenzene    | 11.470 | 105  | 26138    | 0.535 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene       | 11.746 | 146  | 17829    | 0.600 | ug/L   | 100      |
| 65) 1,4-Dichlorobenzene       | 11.836 | 146  | 16809    | 0.568 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.216 | 146  | 15252    | 0.561 | ug/L   | 94       |
| 68) 1,2-Dibromo-3-chloropr... | 13.000 | 75   | 842      | 0.519 | ug/L # | 66       |
| 69) 1,3,5-Trichlorobenzene    | 13.222 | 180  | 11751    | 0.545 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.842 | 180  | 9045     | 0.517 | ug/L   | 97       |
| 71) Naphthalene               | 14.093 | 128  | 13961    | 0.555 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 8121     | 0.552 | ug/L   | 96       |

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

Reviewed By :Mahesh Dadoda 09/20/2023  
Supervised By :Semsettin Yesilyurt 09/20/2023

**Chromatogram Data (Approximate Peak Values):**

| Time (min) | Abundance | Compound               |
|------------|-----------|------------------------|
| 2.50       | 100,000   | 1,4-Difluorobenzene, I |
| 3.50       | 150,000   | Chlorobenzene-d5, I    |
| 4.50       | 100,000   | 1,4-Dichlorobenzene, I |
| 5.50       | 100,000   | Chlorobenzene, I       |
| 6.50       | 100,000   | 1,4-Dichlorobenzene, I |
| 7.50       | 100,000   | Chlorobenzene, I       |
| 8.50       | 100,000   | 1,4-Dichlorobenzene, I |
| 9.50       | 100,000   | Chlorobenzene, I       |
| 10.50      | 100,000   | 1,4-Dichlorobenzene, I |
| 11.50      | 100,000   | Chlorobenzene, I       |
| 12.50      | 100,000   | 1,4-Dichlorobenzene, I |
| 13.50      | 100,000   | Chlorobenzene, I       |
| 14.50      | 100,000   | 1,4-Dichlorobenzene, I |
| 15.50      | 100,000   | Chlorobenzene, I       |
| 16.50      | 100,000   | 1,4-Dichlorobenzene, I |