

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU110821\  
 Data File : VU045628.D  
 Acq On : 08 Nov 2021 20:09  
 Operator : SY/MD  
 Sample : M4504-07MSD  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RW8-MW01D2-20211103MSD

Quant Time: Nov 09 10:03:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/09/2021  
 Supervised By : Mahesh Dadoda 11/15/2021

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 5.375          | 168  | 128761     | 50.000  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.250          | 114  | 232491     | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 9.420          | 117  | 225798     | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.812         | 152  | 115639     | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 5.703          | 65   | 95273      | 49.407  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 98.820% |       |          |
| 35) Dibromofluoromethane     | 5.292          | 113  | 73303      | 47.225  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 94.440% |       |          |
| 50) Toluene-d8               | 7.899          | 98   | 275852     | 47.792  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 95.580% |       |          |
| 62) 4-Bromofluorobenzene     | 10.636         | 95   | 108208     | 46.752  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 93.500% |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.385          | 85   | 82960      | 49.693  | ug/l  | 98       |
| 3) Chloromethane             | 1.520          | 50   | 90506      | 47.381  | ug/l  | 100      |
| 4) Vinyl Chloride            | 1.604          | 62   | 95985      | 51.585  | ug/l  | 99       |
| 5) Bromomethane              | 1.845          | 94   | 61679      | 59.430  | ug/l  | 99       |
| 6) Chloroethane              | 1.929          | 64   | 59214      | 48.763  | ug/l  | 98       |
| 7) Trichlorofluoromethane    | 2.134          | 101  | 125022     | 50.811  | ug/l  | 100      |
| 8) Diethyl Ether             | 2.376          | 74   | 51884      | 53.270  | ug/l  | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.581          | 101  | 71734      | 49.928  | ug/l  | 96       |
| 10) Methyl Iodide            | 2.723          | 142  | 84926      | 45.169  | ug/l  | 94       |
| 11) Tert butyl alcohol       | 3.179          | 59   | 112055     | 293.583 | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 2.578          | 96   | 72572      | 51.230  | ug/l  | 97       |
| 13) Acrolein                 | 2.485          | 56   | 17170      | 310.429 | ug/l  | 100      |
| 14) Allyl chloride           | 2.922          | 41   | 129811     | 51.320  | ug/l  | 98       |
| 15) Acrylonitrile            | 3.314          | 53   | 270123     | 265.074 | ug/l  | 99       |
| 16) Acetone                  | 2.626          | 43   | 216497     | 220.550 | ug/l  | 100      |
| 17) Carbon Disulfide         | 2.793          | 76   | 194547     | 49.031  | ug/l  | 100      |
| 18) Methyl Acetate           | 2.948          | 43   | 165442     | 49.483  | ug/l  | 99       |
| 19) Methyl tert-butyl Ether  | 3.366          | 73   | 277759     | 54.471  | ug/l  | 98       |
| 20) Methylene Chloride       | 3.047          | 84   | 87928      | 51.551  | ug/l  | 99       |
| 21) trans-1,2-Dichloroethene | 3.353          | 96   | 78615      | 53.344  | ug/l  | 94       |
| 22) Diisopropyl ether        | 3.996          | 45   | 270421     | 54.448  | ug/l  | 92       |
| 23) Vinyl Acetate            | 3.957          | 43   | 985387     | 257.964 | ug/l  | 100      |
| 24) 1,1-Dichloroethane       | 3.871          | 63   | 156706     | 52.948  | ug/l  | 99       |
| 25) 2-Butanone               | 4.700          | 43   | 354797     | 260.598 | ug/l  | 99       |
| 26) 2,2-Dichloropropane      | 4.668          | 77   | 115554     | 47.117  | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 4.668          | 96   | 94986      | 54.875  | ug/l  | 97       |
| 28) Bromochloromethane       | 4.977          | 49   | 67271      | 47.677  | ug/l  | 94       |
| 29) Tetrahydrofuran          | 5.051          | 42   | 227306     | 272.946 | ug/l  | 99       |
| 30) Chloroform               | 5.092          | 83   | 155506     | 53.127  | ug/l  | 98       |
| 31) Cyclohexane              | 5.391          | 56   | 136400     | 48.478  | ug/l  | 96       |
| 32) 1,1,1-Trichloroethane    | 5.317          | 97   | 135315     | 54.210  | ug/l  | 97       |
| 36) 1,1-Dichloropropene      | 5.530          | 75   | 113478     | 50.057  | ug/l  | 99       |
| 37) Ethyl Acetate            | 4.803          | 43   | 127945     | 49.132  | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 5.527          | 117  | 116360     | 50.913  | ug/l  | 99       |
| 39) Methylcyclohexane        | 6.764          | 83   | 133124     | 47.867  | ug/l  | 96       |
| 40) Benzene                  | 5.777          | 78   | 335950     | 50.055  | ug/l  | 99       |

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 Sample : M4504-07MSD  
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 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RW8-MW01D2-20211103MSD

Quant Time: Nov 09 10:03:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By : John Carlone 11/09/2021  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.973  | 41   | 73745    | 53.587   | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 5.797  | 62   | 124803   | 51.480   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 5.912  | 43   | 202815   | 50.919   | ug/l   | 99       |
| 44) Trichloroethene           | 6.546  | 130  | 82521    | 51.365   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 6.793  | 63   | 91864    | 51.728   | ug/l   | 99       |
| 46) Dibromomethane            | 6.919  | 93   | 63606    | 51.691   | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.108  | 83   | 123908   | 53.070   | ug/l   | 96       |
| 48) Methyl methacrylate       | 6.961  | 41   | 98596    | 53.781   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 6.961  | 88   | 51481    | 1091.954 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 7.793  | 43   | 695945   | 264.874  | ug/l   | 99       |
| 52) Toluene                   | 7.970  | 92   | 214723   | 52.256   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.211  | 75   | 138994   | 51.799   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 7.610  | 75   | 146884   | 51.537   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 8.401  | 97   | 89530    | 52.572   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 8.333  | 69   | 146166   | 47.956   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 8.578  | 76   | 157754   | 51.431   | ug/l   | 100      |
| 59) 2-Hexanone                | 8.684  | 43   | 532876   | 233.590  | ug/l   | 99       |
| 60) Dibromochloromethane      | 8.813  | 129  | 94146    | 53.091   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 8.925  | 107  | 95145    | 52.092   | ug/l   | 99       |
| 64) Tetrachloroethene         | 8.555  | 164  | 65623    | 50.636   | ug/l   | 98       |
| 65) Chlorobenzene             | 9.449  | 112  | 226498   | 51.068   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 82855    | 52.379   | ug/l   | 98       |
| 67) Ethyl Benzene             | 9.571  | 91   | 413828   | 52.102   | ug/l   | 100      |
| 68) m/p-Xylenes               | 9.697  | 106  | 319275   | 106.586  | ug/l   | 99       |
| 69) o-Xylene                  | 10.102 | 106  | 155676   | 53.456   | ug/l   | 100      |
| 70) Styrene                   | 10.115 | 104  | 264727   | 53.732   | ug/l   | 99       |
| 71) Bromoform                 | 10.292 | 173  | 72186    | 48.324   | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.488 | 105  | 408611   | 54.079   | ug/l   | 99       |
| 74) N-amyl acetate            | 10.321 | 43   | 174184   | 51.102   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 153944   | 51.425   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 10.829 | 75   | 148417m  | 42.322   | ug/l   |          |
| 77) Bromobenzene              | 10.784 | 156  | 98724    | 53.816   | ug/l   | 94       |
| 78) n-propylbenzene           | 10.909 | 91   | 487130   | 51.801   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 10.989 | 91   | 288285   | 51.888   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 349141   | 52.888   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 10.549 | 75   | 48166    | 45.294   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 11.099 | 91   | 339642   | 52.126   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 11.423 | 119  | 337403   | 53.616   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 350749   | 53.459   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.645 | 105  | 432749   | 51.851   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 11.796 | 119  | 360342   | 51.667   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.748 | 146  | 185866   | 50.215   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 11.838 | 146  | 189074   | 50.507   | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.211 | 91   | 328526   | 48.901   | ug/l   | 99       |
| 90) Hexachloroethane          | 12.478 | 117  | 64845    | 51.540   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 12.214 | 146  | 185982   | 51.646   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 36979    | 52.352   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 124687   | 50.077   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 14.025 | 225  | 47645    | 44.329   | ug/l   | 99       |
| 95) Naphthalene               | 14.089 | 128  | 469173   | 50.119   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 127407   | 51.516   | ug/l   | 100      |

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Quant Title : SW846 8260  
QLast Update : Fri Nov 05 13:35:16 2021  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

