

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101923\  
 Data File : VX038389.D  
 Acq On : 19 Oct 2023 17:10  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/20/2023  
 Supervised By : Semsettin Yesilyurt 10/20/2023

Quant Time: Oct 20 03:42:44 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 132469              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 222094              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 224913              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 131004              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 98454               | 46.208  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 92.420%  |         |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 82933               | 51.823  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 103.640% |         |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 312893              | 51.166  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 102.340% |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 127181              | 54.858  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 109.720% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 72587               | 56.768  | ug/l   | 97       |
| 3) Chloromethane             | 1.294          | 50   | 67077               | 51.470  | ug/l   | 95       |
| 4) Vinyl Chloride            | 1.374          | 62   | 80784               | 55.908  | ug/l   | 98       |
| 5) Bromomethane              | 1.599          | 94   | 117499              | 62.122  | ug/l   | 98       |
| 6) Chloroethane              | 1.678          | 64   | 58496               | 54.851  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 161873              | 56.716  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 55461               | 52.103  | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 70826               | 56.844  | ug/l   | 96       |
| 10) Methyl Iodide            | 2.447          | 142  | 89807               | 50.095  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 2.959          | 59   | 105740              | 223.648 | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 68095               | 56.185  | ug/l   | 85       |
| 13) Acrolein                 | 2.233          | 56   | 60972               | 201.295 | ug/l   | 100      |
| 14) Allyl chloride           | 2.660          | 41   | 107932              | 49.788  | ug/l   | 93       |
| 15) Acrylonitrile            | 3.056          | 53   | 245565              | 253.257 | ug/l   | 99       |
| 16) Acetone                  | 2.373          | 43   | 204236              | 229.675 | ug/l   | 94       |
| 17) Carbon Disulfide         | 2.508          | 76   | 164021              | 46.955  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.696          | 43   | 203652              | 53.405  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 249612              | 51.712  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 80661               | 48.224  | ug/l   | 90       |
| 21) trans-1,2-Dichloroethene | 3.087          | 96   | 79520               | 52.991  | ug/l   | 92       |
| 22) Diisopropyl ether        | 3.757          | 45   | 235920              | 51.926  | ug/l # | 88       |
| 23) Vinyl Acetate            | 3.715          | 43   | 862592              | 258.889 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 138687              | 50.298  | ug/l   | 99       |
| 25) 2-Butanone               | 4.550          | 43   | 352221              | 245.491 | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 107788              | 50.070  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 95532               | 53.454  | ug/l   | 89       |
| 28) Bromochloromethane       | 4.891          | 49   | 59048               | 47.439  | ug/l   | 84       |
| 29) Tetrahydrofuran          | 4.995          | 42   | 232025              | 248.389 | ug/l   | 89       |
| 30) Chloroform               | 5.092          | 83   | 163583              | 54.253  | ug/l   | 100      |
| 31) Cyclohexane              | 5.470          | 56   | 116508              | 50.470  | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 137789              | 53.353  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 116425              | 52.757  | ug/l   | 97       |
| 37) Ethyl Acetate            | 4.708          | 43   | 132314              | 50.484  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 5.672          | 117  | 120173              | 55.355  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 143400              | 55.476  | ug/l   | 92       |
| 40) Benzene                  | 6.031          | 78   | 333570              | 54.042  | ug/l   | 100      |

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 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 10/20/2023  
 Supervised By :Semsettin Yesilyurt 10/20/2023

Quant Time: Oct 20 03:42:44 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 05 15:27:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.910  | 41   | 68896    | 52.842  | ug/l # | 90       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 129403   | 52.473  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 206065   | 52.667  | ug/l   | 97       |
| 44) Trichloroethene           | 7.123  | 130  | 93775    | 58.087  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 87533    | 54.793  | ug/l   | 96       |
| 46) Dibromomethane            | 7.580  | 93   | 68886    | 55.597  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.818  | 83   | 126915   | 57.580  | ug/l   | 96       |
| 48) Methyl methacrylate       | 7.689  | 41   | 101111   | 54.134  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 42250    | 917.945 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 745340   | 276.181 | ug/l   | 97       |
| 52) Toluene                   | 8.714  | 92   | 227918   | 56.686  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 134389   | 56.801  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 141645   | 56.982  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 98638    | 57.355  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 147332   | 55.875  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 157945   | 56.784  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 331257   | 255.936 | ug/l   | 98       |
| 59) 2-Hexanone                | 9.427  | 43   | 599602   | 276.368 | ug/l   | 95       |
| 60) Dibromochloromethane      | 9.518  | 129  | 103571   | 61.534  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 109034   | 58.628  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 83631    | 57.438  | ug/l   | 99       |
| 65) Chlorobenzene             | 10.079 | 112  | 257151   | 54.639  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 93374    | 58.671  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 465604   | 55.423  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 360785   | 111.068 | ug/l   | 98       |
| 69) o-Xylene                  | 10.640 | 106  | 173357   | 54.681  | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 295536   | 57.241  | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173  | 76367    | 51.627  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 468957   | 53.378  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 195861   | 52.205  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 168312   | 52.210  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 155948m  | 52.363  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 116461   | 54.296  | ug/l   | 89       |
| 78) n-propylbenzene           | 11.305 | 91   | 566825   | 52.765  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 324484   | 50.933  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 405540   | 53.504  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 45449    | 44.999  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 383772   | 50.906  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 395054   | 53.341  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 402971   | 53.322  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 515773   | 53.760  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 434671   | 54.914  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 226022   | 52.464  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 227894   | 51.814  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.329 | 91   | 412122   | 52.279  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.536 | 117  | 72058    | 54.905  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 221881   | 53.580  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 39424    | 50.580  | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 149933   | 53.981  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 61567    | 55.073  | ug/l   | 97       |
| 95) Naphthalene               | 13.774 | 128  | 495059   | 51.182  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 142432   | 52.961  | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/20/2023  
Supervised By :Semsettin Yesilyurt 10/20/2023

Quant Time: Oct 20 03:42:44 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100523W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 05 15:27:13 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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Page: 4