

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061620\  
 Data File : VX016796.D  
 Acq On : 16 Jun 2020 22:40  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/17/2020 9:35:02 AM

Quant Time: Jun 17 06:42:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 16 02:02:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 288498   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 442203   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 411213   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 211041   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 154441   | 47.60 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.20%  |      |
| 35) Dibromofluoromethane  | 5.46   | 113 | 129721   | 47.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.10%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 503229   | 50.02 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.04% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 192259   | 49.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.92%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 159637  | 48.982  | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 148366  | 47.111  | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 174626  | 51.965  | ug/l | 98     |
| 5) Bromomethane               | 1.62 | 94  | 96864   | 46.414  | ug/l | 95     |
| 6) Chloroethane               | 1.70 | 64  | 115950  | 56.015  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.91 | 101 | 253295  | 52.335  | ug/l | 100    |
| 8) Diethyl Ether              | 2.17 | 74  | 94910   | 48.021  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 127032  | 51.590  | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 133521  | 43.384  | ug/l | 97     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 199473  | 244.686 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 135039  | 47.891  | ug/l | 94     |
| 13) Acrolein                  | 2.27 | 56  | 94794   | 272.880 | ug/l | 97     |
| 14) Allyl chloride            | 2.71 | 41  | 217946  | 49.420  | ug/l | 96     |
| 15) Acrylonitrile             | 3.11 | 53  | 415080  | 250.922 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 341706  | 232.142 | ug/l | 97     |
| 17) Carbon Disulfide          | 2.55 | 76  | 383715  | 47.515  | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 204222  | 51.979  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 467233  | 48.617  | ug/l | 98     |
| 20) Methylene Chloride        | 2.83 | 84  | 150349  | 47.420  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 147878  | 48.803  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.82 | 45  | 420158  | 50.721  | ug/l | 98     |
| 23) Vinyl Acetate             | 3.78 | 43  | 1805027 | 252.105 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 251518  | 48.546  | ug/l | 98     |
| 25) 2-Butanone                | 4.64 | 43  | 564133  | 254.296 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 191976  | 40.017  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 166606  | 48.106  | ug/l | 98     |
| 28) Bromochloromethane        | 4.98 | 49  | 106657  | 48.258  | ug/l | 98     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 363581  | 252.994 | ug/l | 98     |
| 30) Chloroform                | 5.18 | 83  | 261754  | 47.754  | ug/l | 97     |
| 31) Cyclohexane               | 5.55 | 56  | 217488  | 52.101  | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 243709  | 48.999  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 196088  | 50.178  | ug/l | 100    |
| 37) Ethyl Acetate             | 4.79 | 43  | 212935  | 49.756  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117 | 222104  | 50.045  | ug/l | 99     |

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 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/17/2020 9:35:02 AM

Quant Time: Jun 17 06:42:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 16 02:02:35 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 225582   | 49.784   | ug/l  | 96       |
| 40) Benzene                    | 6.11  | 78   | 591271   | 49.694   | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.00  | 41   | 115819   | 50.756   | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 202764   | 46.692   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 340413   | 50.753   | ug/l  | 99       |
| 44) Trichloroethene            | 7.19  | 130  | 193074   | 52.460   | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 147948   | 50.725   | ug/l  | 98       |
| 46) Dibromomethane             | 7.64  | 93   | 102875   | 48.393   | ug/l  | 98       |
| 47) Bromodichloromethane       | 7.88  | 83   | 214174   | 48.326   | ug/l  | 99       |
| 48) Methyl methacrylate        | 7.74  | 41   | 166110   | 52.252   | ug/l  | 97       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 81835    | 1040.215 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1073616  | 259.761  | ug/l  | 100      |
| 52) Toluene                    | 8.76  | 92   | 385658   | 49.901   | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 240454   | 48.036   | ug/l  | 98       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 253922   | 48.631   | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 155264   | 49.955   | ug/l  | 96       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 246463   | 52.963   | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 258135   | 49.407   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 618760   | 270.428  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 829894   | 260.106  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 185079   | 50.385   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 169467   | 50.030   | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 206369   | 52.262   | ug/l  | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 419115   | 50.230   | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 165627   | 49.758   | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.24 | 91   | 731600   | 51.866   | ug/l  | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 552902   | 103.380  | ug/l  | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 268476   | 52.107   | ug/l  | 100      |
| 70) Styrene                    | 10.70 | 104  | 472202   | 53.014   | ug/l  | 99       |
| 71) Bromoform                  | 10.84 | 173  | 149222   | 52.542   | ug/l  | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 716062   | 51.710   | ug/l  | 100      |
| 74) N-amyl acetate             | 10.88 | 43   | 291673   | 54.193   | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 197490   | 48.482   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 218881m  | 49.319   | ug/l  |          |
| 77) Bromobenzene               | 11.24 | 156  | 194352   | 49.707   | ug/l  | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 789469   | 52.497   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 479782   | 50.452   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 610496   | 52.592   | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 83700    | 47.478   | ug/l  | 95       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 568403   | 51.065   | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 548226   | 51.613   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 611674   | 52.089   | ug/l  | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 656287   | 52.822   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 641829   | 53.839   | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 338307   | 51.180   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 330979   | 48.283   | ug/l  | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 519785   | 52.818   | ug/l  | 98       |
| 90) Hexachloroethane           | 12.58 | 117  | 113711   | 51.726   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 326054   | 49.325   | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 57189    | 50.204   | ug/l  | 96       |

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Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
6/17/2020 9:35:02 AM

Quant Time: Jun 17 06:42:05 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 16 02:02:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 236085   | 50.999 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 101047   | 49.608 | ug/l  | 97       |
| 95) Naphthalene            | 13.82 | 128  | 771728   | 53.214 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 231171   | 50.736 | ug/l  | 97       |

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

