

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX033021\  
 Data File : VX021618.D  
 Acq On : 30 Mar 2021 10:17  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 3/31/2021 6:59:30 PM

Quant Time: Mar 31 04:55:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 24 12:25:26 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 5.623          | 168  | 80835      | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.823          | 114  | 126241     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.094         | 117  | 119424     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.059         | 152  | 61118      | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 6.023          | 65   | 60374      | 44.89  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 89.78% |        |          |
| 35) Dibromofluoromethane     | 5.458          | 113  | 43533      | 48.55  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 97.10% |        |          |
| 50) Toluene-d8               | 8.694          | 98   | 155688     | 48.72  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 97.44% |        |          |
| 62) 4-Bromofluorobenzene     | 11.118         | 95   | 61237      | 49.29  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.58% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.187          | 85   | 40984      | 46.13  | ug/l   | 98       |
| 3) Chloromethane             | 1.311          | 50   | 46907      | 45.93  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.393          | 62   | 43914      | 48.32  | ug/l   | 99       |
| 5) Bromomethane              | 1.622          | 94   | 19454      | 53.19  | ug/l   | 96       |
| 6) Chloroethane              | 1.705          | 64   | 27180      | 47.16  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.911          | 101  | 72777      | 49.24  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.170          | 74   | 24384      | 47.54  | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 2.358          | 101  | 40860      | 49.11  | ug/l   | 96       |
| 10) Methyl Iodide            | 2.487          | 142  | 34026      | 52.06  | ug/l # | 88       |
| 11) Tert butyl alcohol       | 3.017          | 59   | 47117      | 211.90 | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 2.352          | 96   | 37820      | 46.42  | ug/l   | 87       |
| 13) Acrolein                 | 2.270          | 56   | 26987      | 240.78 | ug/l   | 98       |
| 14) Allyl chloride           | 2.705          | 41   | 76034      | 45.98  | ug/l # | 88       |
| 15) Acrylonitrile            | 3.117          | 53   | 121239     | 229.43 | ug/l   | 97       |
| 16) Acetone                  | 2.422          | 43   | 131253     | 258.10 | ug/l # | 87       |
| 17) Carbon Disulfide         | 2.546          | 76   | 93756      | 40.99  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.746          | 43   | 73370      | 49.94  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 3.164          | 73   | 146477     | 48.15  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.834          | 84   | 45609      | 45.96  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 3.140          | 96   | 41034      | 45.86  | ug/l   | 90       |
| 22) Diisopropyl ether        | 3.823          | 45   | 154595     | 48.12  | ug/l   | 96       |
| 23) Vinyl Acetate            | 3.781          | 43   | 642728     | 236.53 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 3.664          | 63   | 83016      | 47.93  | ug/l   | 98       |
| 25) 2-Butanone               | 4.629          | 43   | 180984     | 234.77 | ug/l   | 89       |
| 26) 2,2-Dichloropropane      | 4.546          | 77   | 73250      | 48.82  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 4.558          | 96   | 49347      | 47.49  | ug/l   | 89       |
| 28) Bromochloromethane       | 4.976          | 49   | 38686      | 44.62  | ug/l   | 86       |
| 29) Tetrahydrofuran          | 5.082          | 42   | 111572     | 223.22 | ug/l   | 86       |
| 30) Chloroform               | 5.170          | 83   | 89268      | 48.84  | ug/l   | 99       |
| 31) Cyclohexane              | 5.541          | 56   | 69584      | 47.05  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 5.458          | 97   | 79469      | 49.06  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.764          | 75   | 62794      | 50.77  | ug/l   | 96       |
| 37) Ethyl Acetate            | 4.787          | 43   | 66013      | 46.15  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 5.746          | 117  | 70552      | 53.08  | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.435          | 83   | 70196      | 51.19  | ug/l   | 93       |
| 40) Benzene                  | 6.105          | 78   | 179169     | 51.01  | ug/l   | 100      |

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 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 3/31/2021 6:59:30 PM

Quant Time: Mar 31 04:55:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 24 12:25:26 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 4.999  | 41   | 39588    | 47.72  | ug/l   | 89       |
| 42) 1,2-Dichloroethane        | 6.152  | 62   | 78170    | 51.33  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 6.405  | 43   | 112816   | 48.58  | ug/l # | 91       |
| 44) Trichloroethene           | 7.182  | 130  | 47587    | 51.34  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 7.482  | 63   | 49369    | 51.88  | ug/l   | 99       |
| 46) Dibromomethane            | 7.635  | 93   | 35549    | 51.26  | ug/l   | 92       |
| 47) Bromodichloromethane      | 7.870  | 83   | 73384    | 51.99  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.741  | 41   | 61686    | 49.79  | ug/l # | 83       |
| 49) 1,4-Dioxane               | 7.711  | 88   | 21293    | 960.07 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 8.617  | 43   | 358425   | 250.92 | ug/l   | 89       |
| 52) Toluene                   | 8.764  | 92   | 114603   | 52.82  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 9.017  | 75   | 75258    | 52.81  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.411  | 75   | 80335    | 52.97  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 9.194  | 97   | 48872    | 53.37  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.159  | 69   | 71391    | 46.32  | ug/l # | 75       |
| 57) 1,3-Dichloropropane       | 9.347  | 76   | 81615    | 52.08  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 8.288  | 63   | 203899   | 263.48 | ug/l   | 96       |
| 59) 2-Hexanone                | 9.470  | 43   | 274788   | 256.19 | ug/l   | 85       |
| 60) Dibromochloromethane      | 9.559  | 129  | 55732    | 54.34  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.653  | 107  | 50666    | 51.51  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.317  | 164  | 45327    | 56.66  | ug/l   | 94       |
| 65) Chlorobenzene             | 10.118 | 112  | 123756   | 51.58  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 10.200 | 131  | 48452    | 52.71  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.235 | 91   | 231880   | 53.03  | ug/l   | 97       |
| 68) m/p-Xylenes               | 10.341 | 106  | 167298   | 107.38 | ug/l   | 94       |
| 69) o-Xylene                  | 10.682 | 106  | 79870    | 52.93  | ug/l   | 94       |
| 70) Styrene                   | 10.694 | 104  | 138065   | 53.20  | ug/l   | 96       |
| 71) Bromoform                 | 10.835 | 173  | 38592    | 51.66  | ug/l   | 96       |
| 73) Isopropylbenzene          | 11.000 | 105  | 223729   | 52.10  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.877 | 43   | 99659    | 47.96  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 11.247 | 83   | 73368    | 48.35  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.277 | 75   | 72748m   | 51.13  | ug/l   |          |
| 77) Bromobenzene              | 11.235 | 156  | 53511    | 50.27  | ug/l   | 95       |
| 78) n-propylbenzene           | 11.341 | 91   | 264648   | 52.18  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.400 | 91   | 157003   | 51.04  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 11.488 | 105  | 190069   | 51.81  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.059 | 75   | 22797    | 48.80  | ug/l # | 84       |
| 82) 4-Chlorotoluene           | 11.494 | 91   | 187275   | 51.27  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 11.753 | 119  | 182470   | 51.08  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 11.788 | 105  | 196629   | 53.17  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 11.930 | 105  | 217721   | 52.84  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.047 | 119  | 195859   | 52.22  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 12.006 | 146  | 98246    | 51.25  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.077 | 146  | 98734    | 49.79  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.371 | 91   | 183588   | 53.43  | ug/l   | 96       |
| 90) Hexachloroethane          | 12.577 | 117  | 34392    | 50.81  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 12.377 | 146  | 95813    | 51.41  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.983 | 75   | 16783    | 44.13  | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 13.630 | 180  | 62739    | 51.36  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.765 | 225  | 28925    | 52.46  | ug/l   | 97       |
| 95) Naphthalene               | 13.812 | 128  | 201279   | 50.52  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 14.000 | 180  | 61576    | 50.43  | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
3/31/2021 6:59:30 PM

Quant Time: Mar 31 04:55:32 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 24 12:25:26 2021  
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

