

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040720\  
 Data File : VX015541.D  
 Acq On : 07 Apr 2020 16:18  
 Operator : JC/SP  
 Sample : VX0407WBS02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0407WBS02

Manual Integrations  
 APPROVED

MMDadoda  
 4/8/2020 11:12:24 AM

Quant Time: Apr 08 03:33:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 1085541  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1663775  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1519673  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 828591   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.04   | 65  | 739127   | 48.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.56%  |      |
| 35) Dibromofluoromethane    | 5.47   | 113 | 534463   | 50.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.50% |      |
| 50) Toluene-d8              | 8.70   | 98  | 1961441  | 50.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.18% |      |
| 62) 4-Bromofluorobenzene    | 11.12  | 95  | 807919   | 50.77 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.54% |      |

| Target Compounds              |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 184866  | 19.330 | ug/l | 98     |
| 3) Chloromethane              | 1.31 | 50  | 207260  | 17.017 | ug/l | 99     |
| 4) Vinyl Chloride             | 1.39 | 62  | 204013  | 18.242 | ug/l | 99     |
| 5) Bromomethane               | 1.63 | 94  | 84567   | 9.922  | ug/l | 96     |
| 6) Chloroethane               | 1.71 | 64  | 133727  | 19.280 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 296915  | 19.797 | ug/l | 97     |
| 8) Diethyl Ether              | 2.17 | 74  | 119958  | 18.963 | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 189101  | 19.341 | ug/l | 99     |
| 10) Methyl Iodide             | 2.49 | 142 | 109095  | 8.276  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 289449  | 78.985 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 190910  | 18.628 | ug/l | 98     |
| 13) Acrolein                  | 2.27 | 56  | 204896  | 98.152 | ug/l | 98     |
| 14) Allyl chloride            | 2.71 | 41  | 426884  | 17.826 | ug/l | 97     |
| 15) Acrylonitrile             | 3.12 | 53  | 641424  | 91.780 | ug/l | 99     |
| 16) Acetone                   | 2.42 | 43  | 599364  | 91.121 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.55 | 76  | 553133  | 17.692 | ug/l | 99     |
| 18) Methyl Acetate            | 2.75 | 43  | 313477  | 18.673 | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 751289  | 18.901 | ug/l | 98     |
| 20) Methylene Chloride        | 2.84 | 84  | 225327  | 18.340 | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 211277  | 18.575 | ug/l | 94     |
| 22) Diisopropyl ether         | 3.83 | 45  | 813436  | 19.170 | ug/l | 97     |
| 23) Vinyl Acetate             | 3.79 | 43  | 3665776 | 95.414 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 409869  | 18.345 | ug/l | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 942422  | 89.090 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 4.56 | 77  | 353148  | 19.257 | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 244501  | 18.580 | ug/l | 97     |
| 28) Bromochloromethane        | 4.98 | 49  | 208102  | 19.509 | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 610120  | 89.717 | ug/l | 99     |
| 30) Chloroform                | 5.18 | 83  | 411170  | 19.129 | ug/l | 99     |
| 31) Cyclohexane               | 5.56 | 56  | 370557  | 19.119 | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 373521  | 19.201 | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 5.78 | 75  | 299482  | 19.536 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.80 | 43  | 378440  | 18.959 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 330366  | 19.897 | ug/l | 94     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 350014   | 19.802  | ug/l   | 95       |
| 40) Benzene                    | 6.12  | 78   | 884613   | 19.700  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.01  | 41   | 213114   | 19.233  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 360628   | 19.993  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 640487   | 19.008  | ug/l   | 100      |
| 44) Trichloroethene            | 7.20  | 130  | 241984   | 19.759  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 240461   | 19.575  | ug/l   | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 159269   | 19.765  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.88  | 83   | 334777   | 19.497  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.75  | 41   | 313886   | 18.650  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 100615   | 320.458 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1886377  | 98.784  | ug/l   | 99       |
| 52) Toluene                    | 8.77  | 92   | 556896   | 20.115  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 375453   | 18.644  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 397033   | 19.355  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 226099   | 19.933  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 387273   | 19.373  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 402289   | 19.685  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 946416   | 97.335  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 1418374  | 98.382  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 267187   | 19.603  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 243318   | 19.728  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 230170   | 20.070  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.12 | 112  | 609318   | 20.105  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 236715   | 19.551  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.24 | 91   | 1086981  | 20.222  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.34 | 106  | 812766   | 40.607  | ug/l   | 98       |
| 69) o-Xylene                   | 10.68 | 106  | 393059   | 19.873  | ug/l   | 97       |
| 70) Styrene                    | 10.70 | 104  | 694585   | 19.957  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 203638   | 18.475  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 1059822  | 19.521  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.89 | 43   | 570498   | 18.893  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 345306   | 18.536  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 325448m  | 19.100  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 282937   | 19.538  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.35 | 91   | 1224195  | 19.720  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 741917   | 19.498  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 910044   | 19.627  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 118495   | 16.686  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 11.50 | 91   | 874297   | 19.600  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 878249   | 19.392  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 931403   | 19.713  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.93 | 105  | 1037138  | 19.801  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 963468   | 19.814  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 513142   | 19.794  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 501848   | 19.005  | ug/l   | 98       |
| 89) n-Butylbenzene             | 12.37 | 91   | 861086   | 19.596  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 170628   | 18.028  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 502069   | 19.789  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 90813    | 17.271  | ug/l   | 99       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 386702   | 19.269 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 178413   | 18.673 | ug/l  | 97       |
| 95) Naphthalene            | 13.82 | 128  | 1182537  | 19.318 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 376195   | 19.470 | ug/l  | 95       |

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

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