

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090319\  
 Data File : VX012020.D  
 Acq On : 03 Sep 2019 13:40  
 Operator : SY/SP  
 Sample : VSTDIC020  
 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC020

Manual Integrations  
 APPROVED

sam  
 9/4/2019 4:46:19 PM

Quant Time: Sep 03 14:45:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 14:34:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 149039   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 269611   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 246357   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 119569   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 38942    | 29.57  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 59.14% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 33725    | 19.08  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 38.16% |          |
| 50) Toluene-d8              | 8.71  | 98   | 112049   | 17.99  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 35.98% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 59450    | 22.08  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 44.16% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85   | 27398    | 30.456  | ug/l  | 97     |
| 3) Chloromethane              | 1.31 | 50   | 27168    | 30.387  | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.40 | 62   | 25121    | 27.661  | ug/l  | 92     |
| 5) Bromomethane               | 1.62 | 94   | 11953    | 18.563  | ug/l  | 94     |
| 6) Chloroethane               | 1.70 | 64   | 15780    | 27.471  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 1.91 | 101  | 39834    | 24.162  | ug/l  | 98     |
| 8) Diethyl Ether              | 2.17 | 74   | 13681    | 27.291  | ug/l  | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 29988    | 28.563  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.50 | 142  | 21094    | 20.111  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 3.03 | 59   | 20405    | 187.540 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 28040    | 29.271  | ug/l  | 93     |
| 13) Acrolein                  | 2.28 | 56   | 8565     | 215.019 | ug/l  | 89     |
| 14) Allyl chloride            | 2.72 | 41   | 51428    | 31.325  | ug/l  | 99     |
| 15) Acrylonitrile             | 3.13 | 53   | 43676    | 170.295 | ug/l  | 99     |
| 16) Acetone                   | 2.43 | 43   | 47158    | 182.441 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.55 | 76   | 73982    | 27.374  | ug/l  | 98     |
| 18) Methyl Acetate            | 2.76 | 43   | 22451    | 33.518  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 3.18 | 73   | 95388    | 33.402  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.84 | 84   | 37726    | 32.313  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96   | 32577    | 28.609  | ug/l  | 97     |
| 22) Diisopropyl ether         | 3.84 | 45   | 108128   | 32.750  | ug/l  | 91     |
| 23) Vinyl Acetate             | 3.80 | 43   | 345852   | 166.597 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.68 | 63   | 61161    | 31.764  | ug/l  | 99     |
| 25) 2-Butanone                | 4.66 | 43   | 61569    | 174.843 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.57 | 77   | 58532    | 32.772  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96   | 39575    | 30.250  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.00 | 49   | 24702    | 31.215  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 5.12 | 42   | 36650    | 169.232 | ug/l  | 98     |
| 30) Chloroform                | 5.19 | 83   | 67170    | 31.782  | ug/l  | 97     |
| 31) Cyclohexane               | 5.56 | 56   | 49538    | 30.882  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97   | 58898    | 29.954  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75   | 45803    | 22.202  | ug/l  | 98     |
| 37) Ethyl Acetate             | 4.82 | 43   | 25486    | 24.678  | ug/l  | 96     |
| 38) Carbon Tetrachloride      | 5.77 | 117  | 49306    | 19.654  | ug/l  | 94     |

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 Misc : 5.00g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDIC020

Manual Integrations  
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sam  
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Quant Time: Sep 03 14:45:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 14:34:39 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 54227    | 21.647  | ug/l   | 97       |
| 40) Benzene                    | 6.13  | 78   | 133885   | 22.470  | ug/l   | 98       |
| 41) Methacrylonitrile          | 5.03  | 41   | 15687    | 25.204  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 48457    | 24.007  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.44  | 43   | 52073    | 24.394  | ug/l   | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 36348    | 18.367  | ug/l   | 87       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 35427    | 23.629  | ug/l   | 98       |
| 46) Dibromomethane             | 7.65  | 93   | 20177    | 22.451  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.89  | 83   | 51872    | 22.864  | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.76  | 41   | 26017    | 24.716  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 7029     | 475.974 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 134817   | 125.663 | ug/l   | 99       |
| 52) Toluene                    | 8.78  | 92   | 87410    | 21.652  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 53988    | 23.508  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 59719    | 23.102  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 29961    | 22.836  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 41865    | 24.028  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 51911    | 24.092  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 94223    | 119.001 | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.49  | 43   | 98252    | 128.646 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.57  | 129  | 35300    | 19.355  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 28169    | 21.556  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.33  | 164  | 30794    | 15.188  | ug/l   | 98       |
| 65) Chlorobenzene              | 10.14 | 112  | 96974    | 20.852  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 35631    | 19.092  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.25 | 91   | 178986   | 22.781  | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.36 | 106  | 133184   | 43.170  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 64654    | 21.604  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 113114   | 22.029  | ug/l   | 100      |
| 71) Bromoform                  | 10.85 | 173  | 19437    | 15.011  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 176365   | 26.432  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 52193    | 31.370  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 36875    | 30.187  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 27748m   | 29.317  | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 39115    | 20.049  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.35 | 91   | 214090   | 28.513  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 131484   | 29.579  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 158259   | 27.495  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 11764    | 29.321  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 155705   | 29.191  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 149040   | 25.051  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 158659   | 27.200  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 183264   | 26.817  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 167917   | 25.096  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 80092    | 21.890  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 80054    | 22.022  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.39 | 91   | 163381   | 28.195  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 33386    | 26.577  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 73449    | 22.236  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 7795     | 32.501  | ug/l   | 99       |

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Operator : SY/SP  
Sample : VSTDICC020  
Misc : 5.00g/5.0mL/MSVOA X/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC020

Manual Integrations  
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9/4/2019 4:46:19 PM

Quant Time: Sep 03 14:45:10 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 14:34:39 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 51435    | 17.896 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 26195    | 13.045 | ug/l  | 96       |
| 95) Naphthalene            | 13.83 | 128  | 108729   | 24.604 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 44865    | 17.753 | ug/l  | 99       |

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

