

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082120\  
 Data File : VW016279.D  
 Acq On : 20 Aug 2020 23:29  
 Operator : SY/VA  
 Sample : VW0821SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0821SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/21/2020 11:25:56 AM

Quant Time: Aug 21 04:09:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081420S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 17 08:01:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 216285   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 358325   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 327525   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 159483   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 115752   | 54.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.76% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 113849   | 51.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.98% |      |
| 50) Toluene-d8            | 10.32  | 98  | 448660   | 52.43 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.86% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 166160   | 54.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.64% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 25660  | 17.446  | ug/l   | 94     |
| 3) Chloromethane              | 2.21 | 50  | 28797  | 18.389  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.36 | 62  | 38952  | 17.771  | ug/l   | 100    |
| 5) Bromomethane               | 2.77 | 94  | 27308  | 20.038  | ug/l   | 97     |
| 6) Chloroethane               | 2.92 | 64  | 23652  | 19.108  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 36682  | 20.672  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.68 | 74  | 22704  | 20.389  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 43629  | 18.750  | ug/l   | 100    |
| 10) Methyl Iodide             | 4.27 | 142 | 67068  | 19.948  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59  | 18617  | 165.846 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 43545  | 18.390  | ug/l   | 92     |
| 13) Acrolein                  | 3.90 | 56  | 15144  | 93.393  | ug/l   | 97     |
| 14) Allyl chloride            | 4.67 | 41  | 58150  | 18.329  | ug/l   | 97     |
| 15) Acrylonitrile             | 5.37 | 53  | 46164  | 110.024 | ug/l   | 99     |
| 16) Acetone                   | 4.12 | 43  | 38636  | 95.620  | ug/l   | 92     |
| 17) Carbon Disulfide          | 4.38 | 76  | 127037 | 18.271  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 24014  | 25.522  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 66234  | 22.716  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 82998  | 31.211  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96  | 49859  | 19.336  | ug/l   | 94     |
| 22) Diisopropyl ether         | 6.31 | 45  | 120544 | 20.154  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.26 | 43  | 339835 | 99.228  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 80628  | 19.314  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 58632  | 108.275 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 53785  | 19.946  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 53532  | 20.113  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.51 | 49  | 30232  | 19.089  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 35644  | 110.116 | ug/l   | 96     |
| 30) Chloroform                | 7.68 | 83  | 86355  | 19.910  | ug/l   | 98     |
| 31) Cyclohexane               | 7.96 | 56  | 70693  | 18.366  | ug/l # | 91     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 72997  | 20.032  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 67231  | 19.046  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.25 | 43  | 25107  | 20.745  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 69710  | 19.789  | ug/l   | 97     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 80114    | 18.841  | ug/l   | 97       |
| 40) Benzene                    | 8.33  | 78   | 191359   | 19.270  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.48  | 41   | 15492    | 22.428  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 54740    | 20.871  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 46891    | 20.594  | ug/l   | 97       |
| 44) Trichloroethene            | 9.10  | 130  | 52758    | 18.758  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 45128    | 19.278  | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 25878    | 21.057  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 64004    | 20.157  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.44  | 41   | 23016    | 21.744  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.44  | 88   | 8190     | 529.229 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 127159   | 110.417 | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 127617   | 20.069  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 61213    | 20.821  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 72229    | 19.767  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 37319    | 21.163  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 43928    | 21.844  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 62331    | 20.775  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 96688    | 105.455 | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.97 | 43   | 85929    | 109.070 | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.13 | 129  | 44712    | 21.314  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 35780    | 21.078  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 44898    | 20.892  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.66 | 112  | 136696   | 20.363  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 48980    | 20.874  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 239616   | 19.861  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 186734   | 40.267  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 85775    | 20.762  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 149486   | 20.910  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 24011    | 22.864  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 236235   | 19.438  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 43697    | 20.077  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 42745    | 21.020  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 30218m   | 20.602  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 54514    | 20.280  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.80 | 91   | 278170   | 19.176  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 164175   | 19.592  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 204707   | 19.622  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 12113    | 19.809  | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 170556   | 19.551  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 172619   | 20.189  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 206776   | 20.030  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 240605   | 19.362  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 223846   | 19.916  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 108568   | 20.167  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 104947   | 19.798  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.82 | 91   | 198652   | 19.105  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 40868    | 19.484  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 96292    | 20.517  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6872     | 21.983  | ug/l   | 94       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 59078    | 21.108 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 33023    | 19.846 | ug/l  | 100      |
| 95) Naphthalene            | 15.37 | 128  | 112654   | 21.401 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 52394    | 21.798 | ug/l  | 96       |

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

