

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY102319\  
 Data File : VY000383.D  
 Acq On : 23 Oct 2019 16:00  
 Operator : SY/MD  
 Sample : K5494-02MS  
 Misc : 6.58G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP1-2FTMS

Manual Integrations  
 APPROVED

MMDadoda  
 10/24/2019 4:30:33 PM

Quant Time: Oct 24 05:06:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 17 02:03:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 221536   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 358260   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 317634   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 142543   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 122079   | 52.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 104.48% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 109033   | 50.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.90% |          |
| 50) Toluene-d8              | 10.18 | 98   | 432545   | 52.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 104.06% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 146801   | 46.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 92.96%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85   | 77445    | 43.710  | ug/l   | 96     |
| 3) Chloromethane              | 2.11 | 50   | 143695   | 53.081  | ug/l   | 95     |
| 4) Vinyl Chloride             | 2.25 | 62   | 126305   | 46.231  | ug/l   | 90     |
| 5) Bromomethane               | 2.65 | 94   | 71333    | 35.230  | ug/l   | 100    |
| 6) Chloroethane               | 2.79 | 64   | 85006    | 48.222  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 3.13 | 101  | 186558   | 49.920  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.54 | 74   | 72921    | 55.234  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101  | 116788   | 51.530  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.10 | 142  | 117861   | 36.830  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.97 | 59   | 61205    | 250.272 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 3.87 | 96   | 110715   | 49.483  | ug/l   | 95     |
| 13) Acrolein                  | 3.74 | 56   | 29792    | 103.908 | ug/l   | 98     |
| 14) Allyl chloride            | 4.48 | 41   | 194898   | 52.564  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.18 | 53   | 189275   | 256.139 | ug/l   | 96     |
| 16) Acetone                   | 3.95 | 43   | 173368   | 229.088 | ug/l   | 100    |
| 17) Carbon Disulfide          | 4.19 | 76   | 298049   | 42.308  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.48 | 43   | 234893   | 124.924 | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.23 | 73   | 351247   | 56.393  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.72 | 84   | 129087   | 50.702  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96   | 124332   | 48.434  | ug/l # | 87     |
| 22) Diisopropyl ether         | 6.13 | 45   | 426152   | 54.341  | ug/l   | 91     |
| 23) Vinyl Acetate             | 6.07 | 43   | 253948   | 49.636  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 6.03 | 63   | 226795   | 52.982  | ug/l   | 98     |
| 25) 2-Butanone                | 7.00 | 43   | 263037   | 246.739 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.99 | 77   | 202764   | 51.406  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96   | 146482   | 52.734  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.35 | 49   | 93641    | 50.958  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 7.36 | 42   | 170623   | 264.094 | ug/l   | 98     |
| 30) Chloroform                | 7.52 | 83   | 239814   | 55.630  | ug/l   | 98     |
| 31) Cyclohexane               | 7.80 | 56   | 208403   | 46.614  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97   | 208789   | 54.478  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.93 | 75   | 173765   | 49.540  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.08 | 43   | 79743    | 38.395  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.91 | 117  | 181653   | 53.488  | ug/l   | 97     |

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 Sample : K5494-02MS  
 Misc : 6.58G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP1-2FTMS

Manual Integrations  
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MMDadoda  
 10/24/2019 4:30:33 PM

Quant Time: Oct 24 05:06:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 17 02:03:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 219339   | 47.778   | ug/l   | 97       |
| 40) Benzene                    | 8.17  | 78   | 542778   | 53.547   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.36  | 41   | 152656   | 154.414  | ug/l # | 25       |
| 42) 1,2-Dichloroethane         | 8.25  | 62   | 160572   | 55.456   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 181264   | 45.900   | ug/l   | 98       |
| 44) Trichloroethene            | 8.94  | 130  | 147248   | 51.772   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 139552   | 56.100   | ug/l   | 95       |
| 46) Dibromomethane             | 9.32  | 93   | 77813    | 55.957   | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.50  | 83   | 187403   | 57.184   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.30  | 41   | 114662   | 66.252   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 22167    | 1063.162 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 574821   | 282.213  | ug/l   | 99       |
| 52) Toluene                    | 10.25 | 92   | 341711   | 53.097   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 190110   | 54.129   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 218387   | 54.753   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 112957   | 55.868   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 119302   | 41.397   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 194656   | 56.059   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 349385   | 303.948  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 399551   | 279.469  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 129114   | 57.615   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 105204   | 54.192   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.72 | 164  | 150154   | 49.655   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.52 | 112  | 357950   | 53.398   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 134769   | 57.232   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.60 | 91   | 657286   | 52.893   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.70 | 106  | 506540   | 106.628  | ug/l   | 100      |
| 69) o-Xylene                   | 12.03 | 106  | 241666   | 53.326   | ug/l   | 100      |
| 70) Styrene                    | 12.04 | 104  | 402548   | 52.669   | ug/l   | 99       |
| 71) Bromoform                  | 12.20 | 173  | 76875    | 56.789   | ug/l   | 100      |
| 73) Isopropylbenzene           | 12.33 | 105  | 644376   | 57.976   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 89255    | 32.711   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 128805   | 61.723   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 99773m   | 56.922   | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 144773   | 58.536   | ug/l   | 92       |
| 78) n-propylbenzene            | 12.67 | 91   | 748422   | 56.084   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 427977   | 58.072   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 534579   | 57.359   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 47688    | 59.528   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 431038   | 55.330   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.08 | 119  | 462580   | 58.611   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 535907   | 58.261   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 636071   | 55.711   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 559400   | 56.200   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 259794   | 53.313   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 254425   | 52.236   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.69 | 91   | 501995   | 51.034   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 109173   | 59.231   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 243230   | 55.155   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 22935    | 57.949   | ug/l   | 95       |

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Operator : SY/MD  
Sample : K5494-02MS  
Misc : 6.58G/5ML/MSVOA Y/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP1-2FTMS

Manual Integrations  
APPROVED

MMDadoda  
10/24/2019 4:30:33 PM

Quant Time: Oct 24 05:06:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 17 02:03:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 125281   | 40.803 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 65582    | 39.469 | ug/l  | 99       |
| 95) Naphthalene            | 15.23 | 128  | 297499   | 43.418 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 110148   | 39.805 | ug/l  | 98       |

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

