

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022421\  
 Data File : VY004046.D  
 Acq On : 24 Feb 2021 11:39  
 Operator : SY/MD  
 Sample : VY0224SBS01  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0224SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 2/25/2021 12:17:48 PM

Quant Time: Feb 25 01:44:58 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 23 03:42:58 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 62447              | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 93356              | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 86185              | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 45438              | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 36657              | 52.61  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.22% |        |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 28200              | 50.10  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 100.20% |        |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 113804             | 50.43  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 100.86% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 41132              | 51.59  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 103.18% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 15184              | 25.62  | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 22068              | 24.93  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253          | 62   | 20481              | 23.85  | ug/l   | 97       |
| 5) Bromomethane              | 2.644          | 94   | 13633              | 23.68  | ug/l   | 96       |
| 6) Chloroethane              | 2.790          | 64   | 11628              | 22.43  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 23715              | 22.09  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.528          | 74   | 7280               | 21.19  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 11741              | 20.45  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.088          | 142  | 13390              | 18.57  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 7361               | 65.78  | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 11367              | 19.72  | ug/l   | 97       |
| 13) Acrolein                 | 3.735          | 56   | 7067               | 101.97 | ug/l   | 97       |
| 14) Allyl chloride           | 4.485          | 41   | 21311              | 19.50  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.168          | 53   | 18080              | 99.83  | ug/l   | 100      |
| 16) Acetone                  | 3.960          | 43   | 19247              | 109.29 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.198          | 76   | 38417              | 20.62  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 8479               | 20.49  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 33903              | 20.03  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.723          | 84   | 13772              | 19.34  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 12556              | 19.37  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.125          | 45   | 41900              | 19.51  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.070          | 43   | 143681             | 98.78  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 22391              | 19.49  | ug/l   | 99       |
| 25) 2-Butanone               | 6.990          | 43   | 25378              | 101.13 | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 21044              | 19.81  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 13967              | 19.62  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.338          | 49   | 10437              | 20.56  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.350          | 42   | 15714              | 97.02  | ug/l   | 100      |
| 30) Chloroform               | 7.515          | 83   | 22993              | 19.73  | ug/l   | 99       |
| 31) Cyclohexane              | 7.789          | 56   | 22176              | 18.96  | ug/l # | 95       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 21465              | 20.05  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 17952              | 19.20  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 10828              | 19.59  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 19061              | 19.75  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.179          | 83   | 21612              | 19.13  | ug/l   | 98       |
| 40) Benzene                  | 8.161          | 78   | 50912              | 19.61  | ug/l   | 95       |

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 Sample : VY0224SBS01  
 Misc : 5.00g/5mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0224SBS01

Manual Integrations  
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MMDadoda  
 2/25/2021 12:17:48 PM

Quant Time: Feb 25 01:44:58 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022221S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 23 03:42:58 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 5130m    | 17.56  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 17357    | 20.35  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.271  | 43   | 21058    | 20.22  | ug/l   | 99       |
| 44) Trichloroethene           | 8.941  | 130  | 13877    | 19.35  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 12464    | 19.58  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 6800     | 19.11  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.496  | 83   | 18206    | 20.00  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 10210    | 20.04  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 1728     | 402.71 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 53887    | 100.17 | ug/l   | 100      |
| 52) Toluene                   | 10.240 | 92   | 32315    | 19.90  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 19497    | 19.91  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 21754    | 19.85  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 10120    | 20.06  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 14351    | 19.93  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 17842    | 19.98  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 35603    | 108.99 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.831 | 43   | 38400    | 101.28 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.984 | 129  | 12808    | 20.12  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 9904     | 20.03  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.715 | 164  | 15608    | 19.65  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 34125    | 19.66  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 13202    | 19.90  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.587 | 91   | 62890    | 19.31  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.697 | 106  | 46711    | 38.88  | ug/l   | 100      |
| 69) o-Xylene                  | 12.026 | 106  | 22047    | 19.53  | ug/l   | 99       |
| 70) Styrene                   | 12.038 | 104  | 37378    | 19.28  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 8548     | 20.15  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.325 | 105  | 61287    | 19.00  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 19109    | 19.61  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 11341    | 19.31  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 9053m    | 19.85  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 15107    | 19.03  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.666 | 91   | 73349    | 18.99  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.752 | 91   | 41454    | 18.92  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 52291    | 19.00  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 4717     | 19.20  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 43425    | 18.89  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.069 | 119  | 44852    | 19.03  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 52051    | 18.88  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 61671    | 19.10  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 57356    | 19.08  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 28649    | 18.94  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 28710    | 19.11  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.690 | 91   | 53342    | 19.11  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 10174    | 18.98  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.733 | 146  | 26072    | 19.49  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 2302     | 20.47  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 18872    | 19.64  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.105 | 225  | 11862    | 19.54  | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 34509    | 19.69  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 16208    | 19.77  | ug/l   | 98       |

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ALS Vial : 5 Sample Multiplier: 1

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MSVOA\_Y  
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Manual Integrations  
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2/25/2021 12:17:48 PM

Quant Time: Feb 25 01:44:58 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022221S.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 23 03:42:58 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

