

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112020\  
 Data File : VY003563.D  
 Acq On : 20 Nov 2020 12:44  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICSVY112020

Manual Integrations  
 APPROVED

MMDadoda  
 11/23/2020 1:39:34 PM

Quant Time: Nov 21 02:17:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112020S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 21 01:00:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 167495   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 248773   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 222414   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 107799   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.14   | 65    | 84368    | 48.51    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 97.02%  |
| 35) Dibromofluoromethane  | 7.72   | 113   | 80033    | 48.94    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 97.88%  |
| 50) Toluene-d8            | 10.18  | 98    | 306130   | 48.14    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 96.28%  |
| 62) 4-Bromofluorobenzene  | 12.48  | 95    | 100907   | 50.00    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 100.00% |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.91 | 85  | 27156  | 55.013  | ug/l   | 90     |
| 3) Chloromethane              | 2.12 | 50  | 54919  | 47.265  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.26 | 62  | 75528  | 50.246  | ug/l   | 95     |
| 5) Bromomethane               | 2.66 | 94  | 57988  | 46.119  | ug/l   | 96     |
| 6) Chloroethane               | 2.80 | 64  | 51109  | 48.484  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 66925  | 50.472  | ug/l   | 96     |
| 8) Diethyl Ether              | 3.53 | 74  | 45233  | 47.030  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.91 | 101 | 73895  | 48.550  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.10 | 142 | 122307 | 47.323  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.01 | 59  | 33093  | 251.761 | ug/l # | 100    |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 80351  | 48.722  | ug/l   | 91     |
| 13) Acrolein                  | 3.74 | 56  | 41726  | 251.456 | ug/l   | 97     |
| 14) Allyl chloride            | 4.49 | 41  | 134922 | 48.803  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.18 | 53  | 111934 | 247.369 | ug/l   | 99     |
| 16) Acetone                   | 3.97 | 43  | 139625 | 240.448 | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.20 | 76  | 220247 | 46.393  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.49 | 43  | 60394  | 47.809  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.23 | 73  | 120960 | 49.415  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.72 | 84  | 94131  | 51.897  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.22 | 96  | 89617  | 48.601  | ug/l   | 93     |
| 22) Diisopropyl ether         | 6.13 | 45  | 236795 | 49.970  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.07 | 43  | 949264 | 257.714 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.03 | 63  | 153678 | 48.723  | ug/l   | 99     |
| 25) 2-Butanone                | 7.00 | 43  | 179778 | 238.593 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 97448  | 47.246  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96  | 98636  | 49.341  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.34 | 49  | 78895  | 51.098  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.36 | 42  | 99075  | 250.991 | ug/l   | 99     |
| 30) Chloroform                | 7.51 | 83  | 151070 | 47.996  | ug/l   | 94     |
| 31) Cyclohexane               | 7.79 | 56  | 116918 | 46.502  | ug/l   | 100    |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 118861 | 48.869  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.92 | 75  | 118775 | 48.496  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.08 | 43  | 76705  | 51.972  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 112025 | 49.377  | ug/l   | 99     |

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 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
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Manual Integrations  
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MMDadoda  
 11/23/2020 1:39:34 PM

Quant Time: Nov 21 02:17:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112020S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 21 01:00:42 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 125514   | 50.428   | ug/l   | 98       |
| 40) Benzene                    | 8.16  | 78   | 348869   | 48.052   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.33  | 41   | 43068    | 49.357   | ug/l # | 92       |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 100017   | 48.426   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 133544   | 49.278   | ug/l   | 98       |
| 44) Trichloroethene            | 8.94  | 130  | 95880    | 48.466   | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 88412    | 49.126   | ug/l   | 97       |
| 46) Dibromomethane             | 9.31  | 93   | 49106    | 47.913   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.50  | 83   | 116534   | 47.870   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.29  | 41   | 64150    | 49.451   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.33  | 88   | 11874    | 1011.143 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 332255   | 255.812  | ug/l   | 99       |
| 52) Toluene                    | 10.24 | 92   | 215892   | 48.566   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 128496   | 50.432   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 145917   | 50.317   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 69372    | 47.721   | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 91509    | 51.800   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 120684   | 49.049   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 226578   | 249.924  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.83 | 43   | 272439   | 254.450  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.99 | 129  | 86839    | 49.406   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 68855    | 49.151   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.72 | 164  | 78120    | 47.022   | ug/l   | 94       |
| 65) Chlorobenzene              | 11.52 | 112  | 232219   | 48.258   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 67169    | 48.646   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.59 | 91   | 388645   | 49.289   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.70 | 106  | 298168   | 98.753   | ug/l   | 99       |
| 69) o-Xylene                   | 12.03 | 106  | 117348   | 48.588   | ug/l   | 99       |
| 70) Styrene                    | 12.04 | 104  | 244859   | 50.303   | ug/l   | 99       |
| 71) Bromoform                  | 12.20 | 173  | 54664    | 49.024   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 258326   | 48.109   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 109761   | 51.616   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 73207    | 48.995   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 49170m   | 47.048   | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 97516    | 49.361   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.67 | 91   | 372213   | 49.341   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 213099   | 48.939   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 194767   | 48.260   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 32612    | 49.606   | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 268174   | 50.267   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.07 | 119  | 199603   | 48.861   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 214709   | 49.966   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 220654   | 47.719   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.36 | 119  | 201147   | 48.481   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 176445   | 49.065   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 180631   | 49.014   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.69 | 91   | 223206   | 50.278   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.95 | 117  | 54764    | 49.919   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 138227   | 48.155   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 9511     | 48.871   | ug/l   | 97       |

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Sample : VSTDICV050  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVY112020

Manual Integrations  
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11/23/2020 1:39:34 PM

Quant Time: Nov 21 02:17:23 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112020S.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 21 01:00:42 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 78823    | 48.964 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 43709    | 49.058 | ug/l  | 98       |
| 95) Naphthalene            | 15.23 | 128  | 141034   | 51.340 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 58358    | 49.314 | ug/l  | 98       |

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

