

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072522\  
 Data File : VY009691.D  
 Acq On : 25 Jul 2022 17:48  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Krupa  
 Patel  
 07/26/2022

Supervised By :Mahesh  
 Dadoda  
 07/26/2022

Quant Time: Jul 26 10:04:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 19 04:22:09 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.783  | 168  | 210088   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.685  | 114  | 312359   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.490 | 117  | 289028   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152  | 141177   | 50.000 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 8.130  | 65    | 105774   | 53.235   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | = 106.480% |      |
| 35) Dibromofluoromethane  | 7.704  | 113   | 110047   | 55.922   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | = 111.840% |      |
| 50) Toluene-d8            | 10.173 | 98    | 410055   | 54.204   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 78 - 125 | Recovery | = 108.400% |      |
| 62) 4-Bromofluorobenzene  | 12.477 | 95    | 146587   | 59.800   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 50 - 146 | Recovery | = 119.600% |      |

## Target Compounds

|                              |       |     |         |         |        | Qvalue |
|------------------------------|-------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.900 | 85  | 155068  | 84.118  | ug/l   | 99     |
| 3) Chloromethane             | 2.101 | 50  | 105465  | 38.606  | ug/l   | 97     |
| 4) Vinyl Chloride            | 2.241 | 62  | 118138  | 41.354  | ug/l   | 97     |
| 5) Bromomethane              | 2.631 | 94  | 81365   | 42.080  | ug/l   | 99     |
| 6) Chloroethane              | 2.778 | 64  | 73452   | 42.328  | ug/l   | 99     |
| 7) Trichlorofluoromethane    | 3.107 | 101 | 183310  | 54.150  | ug/l   | 95     |
| 8) Diethyl Ether             | 3.515 | 74  | 59928   | 54.107  | ug/l   | 82     |
| 9) 1,1,2-Trichlorotrifluo... | 3.881 | 101 | 104186  | 52.631  | ug/l   | 94     |
| 10) Methyl Iodide            | 4.076 | 142 | 134219  | 51.043  | ug/l # | 87     |
| 11) Tert butyl alcohol       | 4.948 | 59  | 56953   | 292.903 | ug/l # | 94     |
| 12) 1,1-Dichloroethene       | 3.857 | 96  | 96810   | 50.109  | ug/l   | 80     |
| 13) Acrolein                 | 3.717 | 56  | 28559   | 201.051 | ug/l   | 96     |
| 14) Allyl chloride           | 4.466 | 41  | 152304  | 50.961  | ug/l # | 91     |
| 15) Acrylonitrile            | 5.149 | 53  | 155034  | 283.418 | ug/l   | 98     |
| 16) Acetone                  | 3.936 | 43  | 118697  | 236.152 | ug/l   | 91     |
| 17) Carbon Disulfide         | 4.174 | 76  | 253610  | 42.226  | ug/l   | 100    |
| 18) Methyl Acetate           | 4.460 | 43  | 70878   | 50.236  | ug/l # | 88     |
| 19) Methyl tert-butyl Ether  | 5.210 | 73  | 291445  | 57.237  | ug/l   | 98     |
| 20) Methylene Chloride       | 4.698 | 84  | 143553  | 58.843  | ug/l   | 84     |
| 21) trans-1,2-Dichloroethene | 5.204 | 96  | 112835  | 51.601  | ug/l   | 87     |
| 22) Diisopropyl ether        | 6.106 | 45  | 353340  | 55.367  | ug/l # | 92     |
| 23) Vinyl Acetate            | 6.045 | 43  | 1149575 | 285.498 | ug/l # | 93     |
| 24) 1,1-Dichloroethane       | 6.003 | 63  | 199448  | 54.110  | ug/l   | 99     |
| 25) 2-Butanone               | 6.978 | 43  | 203754  | 277.905 | ug/l # | 87     |
| 26) 2,2-Dichloropropane      | 6.966 | 77  | 176942  | 53.586  | ug/l   | 94     |
| 27) cis-1,2-Dichloroethene   | 6.972 | 96  | 133591  | 55.257  | ug/l   | 86     |
| 28) Bromochloromethane       | 7.320 | 49  | 87216   | 55.224  | ug/l # | 79     |
| 29) Tetrahydrofuran          | 7.338 | 42  | 140512  | 291.905 | ug/l   | 89     |
| 30) Chloroform               | 7.496 | 83  | 212341  | 56.315  | ug/l   | 100    |
| 31) Cyclohexane              | 7.777 | 56  | 166452  | 47.510  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane    | 7.691 | 97  | 188791  | 55.821  | ug/l   | 95     |
| 36) 1,1-Dichloropropene      | 7.911 | 75  | 157027  | 53.999  | ug/l   | 96     |
| 37) Ethyl Acetate            | 7.063 | 43  | 92785   | 57.329  | ug/l # | 94     |
| 38) Carbon Tetrachloride     | 7.893 | 117 | 169382  | 55.643  | ug/l   | 99     |
| 39) Methylcyclohexane        | 9.179 | 83  | 189749  | 52.920  | ug/l   | 90     |
| 40) Benzene                  | 8.149 | 78  | 464034  | 54.535  | ug/l   | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Jul 19 04:22:09 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 52791m   | 67.975   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 134374   | 56.295   | ug/l   | 91       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 171974   | 57.989   | ug/l # | 91       |
| 44) Trichloroethene           | 8.935  | 130  | 134172   | 55.445   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 116820   | 55.959   | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 70077    | 57.797   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.490  | 83   | 165713   | 58.287   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 76786    | 58.604   | ug/l # | 85       |
| 49) 1,4-Dioxane               | 9.289  | 88   | 21183    | 1310.704 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone      | 10.063 | 43   | 466461   | 302.933  | ug/l   | 90       |
| 52) Toluene                   | 10.240 | 92   | 306306   | 56.830   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 173215   | 58.988   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 191764   | 57.435   | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 103291   | 60.490   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 138823   | 63.546   | ug/l # | 81       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 166511   | 58.763   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 346493   | 288.801  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 323766   | 302.311  | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.983 | 129  | 126286   | 61.119   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 98855    | 59.337   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.715 | 164  | 133418   | 58.983   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.514 | 112  | 334297   | 56.601   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 130399   | 59.424   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.587 | 91   | 590281   | 56.825   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.697 | 106  | 472930   | 114.396  | ug/l   | 91       |
| 69) o-Xylene                  | 12.026 | 106  | 226090   | 58.440   | ug/l   | 90       |
| 70) Styrene                   | 12.038 | 104  | 388943   | 60.444   | ug/l   | 94       |
| 71) Bromoform                 | 12.203 | 173  | 86145    | 62.208   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.325 | 105  | 599239   | 61.305   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 161621   | 62.171   | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 120955   | 61.789   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 84887m   | 63.119   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 147278   | 59.918   | ug/l   | 90       |
| 78) n-propylbenzene           | 12.666 | 91   | 721392   | 61.077   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 398426   | 60.842   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 502316   | 62.192   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 43222    | 63.370   | ug/l # | 84       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 419000   | 61.675   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 401597   | 55.965   | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 450809   | 55.810   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 572590   | 53.819   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 511040   | 57.157   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 270165   | 55.563   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 268951   | 55.787   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.696 | 91   | 456246   | 55.874   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 96021    | 55.744   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 246875   | 58.120   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 20017    | 67.215   | ug/l   | 72       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 168842   | 63.331   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 100121   | 63.304   | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 340628   | 66.920   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 148964   | 63.608   | ug/l   | 100      |

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ALS Vial : 22 Sample Multiplier: 1

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Quant Title : SW846 8260  
QLast Update : Tue Jul 19 04:22:09 2022  
Response via : Initial Calibration

Instrument :  
MSVOA\_Y  
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VSTDCCC050EC

Manual Integrations  
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Reviewed By :Krupa  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

