

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020722\  
 Data File : VY007405.D  
 Acq On : 07 Feb 2022 11:52  
 Operator : SY/MD  
 Sample : VY0207SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0207SBS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/08/2022  
 Supervised By :Mahesh Dadoda 02/08/2022

Quant Time: Feb 08 00:36:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 03 04:36:48 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 127332              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 217438              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.495         | 117  | 191861              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 86730               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 79662               | 54.391  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 108.780% |         |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 71003               | 50.853  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 101.700% |         |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 255019              | 49.437  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 98.880%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 89814               | 51.226  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 102.460% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 32932               | 22.090  | ug/l   | 99       |
| 3) Chloromethane             | 2.119          | 50   | 35724               | 19.836  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.259          | 62   | 36982               | 21.037  | ug/l   | 98       |
| 5) Bromomethane              | 2.650          | 94   | 24614               | 23.115  | ug/l   | 92       |
| 6) Chloroethane              | 2.796          | 64   | 22779               | 21.098  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 61306               | 21.520  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.533          | 74   | 19045               | 22.522  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 33951               | 21.161  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.100          | 142  | 36500               | 21.103  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 23582               | 113.955 | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 31540               | 21.282  | ug/l   | 91       |
| 13) Acrolein                 | 3.735          | 56   | 20991               | 106.687 | ug/l   | 99       |
| 14) Allyl chloride           | 4.485          | 41   | 49429               | 21.714  | ug/l # | 95       |
| 15) Acrylonitrile            | 5.167          | 53   | 47749               | 120.187 | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 49744               | 104.576 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.198          | 76   | 96981               | 20.844  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.478          | 43   | 22132               | 24.841  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 95120               | 22.781  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.722          | 84   | 36482               | 22.397  | ug/l # | 85       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 34468               | 21.023  | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.124          | 45   | 104429              | 21.895  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.070          | 43   | 356546              | 114.622 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 60960               | 21.162  | ug/l   | 98       |
| 25) 2-Butanone               | 6.996          | 43   | 67353               | 117.195 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 57057               | 20.700  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 38092               | 21.034  | ug/l   | 90       |
| 28) Bromochloromethane       | 7.338          | 49   | 23740               | 21.077  | ug/l # | 89       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 42105               | 126.786 | ug/l   | 89       |
| 30) Chloroform               | 7.514          | 83   | 63901               | 21.325  | ug/l   | 97       |
| 31) Cyclohexane              | 7.789          | 56   | 60022               | 21.002  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 58645               | 21.057  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 50210               | 20.570  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.082          | 43   | 27493               | 22.655  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 52465               | 20.458  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 61778               | 20.153  | ug/l   | 89       |
| 40) Benzene                  | 8.167          | 78   | 133148              | 20.579  | ug/l   | 98       |

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 Sample : VY0207SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0207SBS01

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/08/2022  
 Supervised By : Mahesh Dadoda 02/08/2022

Quant Time: Feb 08 00:36:29 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020222S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 03 04:36:48 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 12236m   | 20.290  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 42538    | 21.627  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 52681    | 23.213  | ug/l # | 93       |
| 44) Trichloroethene           | 8.947  | 130  | 35858    | 20.497  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 33251    | 20.841  | ug/l   | 91       |
| 46) Dibromomethane            | 9.313  | 93   | 20889    | 22.007  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.502  | 83   | 48669    | 21.203  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.295  | 41   | 24372    | 23.746  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 5132     | 493.581 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 139129   | 120.876 | ug/l   | 92       |
| 52) Toluene                   | 10.246 | 92   | 83618    | 20.511  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 52252    | 21.791  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 57325    | 21.343  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 27916    | 22.393  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 39467    | 22.793  | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 48494    | 21.940  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 100043   | 111.072 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.837 | 43   | 98034    | 116.827 | ug/l   | 91       |
| 60) Dibromochloromethane      | 10.989 | 129  | 33865    | 21.820  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 27483    | 22.283  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 31596    | 20.984  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.520 | 112  | 86964    | 20.375  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 32728    | 20.541  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 166556   | 20.565  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 122314   | 40.775  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 58551    | 20.645  | ug/l   | 100      |
| 70) Styrene                   | 12.044 | 104  | 96719    | 20.687  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 19594    | 22.289  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 160178   | 20.208  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.148 | 43   | 44885    | 22.877  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 32135    | 22.200  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 21759m   | 21.104  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 33573    | 20.108  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.672 | 91   | 195501   | 20.363  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 106519   | 20.039  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 130183   | 20.133  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 11498    | 22.341  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 109256   | 20.012  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 110740   | 19.673  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 128232   | 20.141  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 170104   | 20.146  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 138804   | 20.181  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 66608    | 20.576  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 64919    | 20.118  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.696 | 91   | 132948   | 20.083  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.965 | 117  | 26181    | 20.141  | ug/l   | 78       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 58609    | 20.569  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 5408     | 22.990  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 33853    | 20.062  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 18494    | 19.798  | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 78459    | 22.374  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 29538    | 20.737  | ug/l   | 97       |

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Sample : VY0207SBSD01  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0207SBSD01

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 02/08/2022  
Supervised By :Mahesh Dadoda 02/08/2022

Quant Time: Feb 08 00:36:29 2022  
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Quant Title : SW846 8260  
QLast Update : Thu Feb 03 04:36:48 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

