

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092622\  
 Data File : VY010671.D  
 Acq On : 26 Sep 2022 15:20  
 Operator : KP/MD  
 Sample : VY0926SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0926SBS01

Quant Time: Sep 27 06:26:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 01:02:44 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 09/27/2022  
 Supervised By :mohammad ahmed 09/27/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 231298              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 382001              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 344540              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 169453              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.137          | 65   | 113121              | 51.133  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 102.260% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 105281              | 43.185  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 86.360%  |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 417026              | 46.517  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 93.040%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 137216              | 40.523  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 81.040%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 26036               | 20.956  | ug/l   | 99       |
| 3) Chloromethane             | 2.107          | 50   | 41294               | 23.844  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.247          | 62   | 47618               | 21.213  | ug/l   | 100      |
| 5) Bromomethane              | 2.638          | 94   | 31481               | 19.769  | ug/l   | 99       |
| 6) Chloroethane              | 2.784          | 64   | 32926               | 20.208  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 62506               | 20.567  | ug/l   | 92       |
| 8) Diethyl Ether             | 3.522          | 74   | 20546               | 19.717  | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 37550               | 20.529  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.082          | 142  | 39473               | 18.681  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 4.936          | 59   | 32919               | 162.372 | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 3.863          | 96   | 33565               | 20.551  | ug/l   | 88       |
| 13) Acrolein                 | 3.723          | 56   | 9348                | 90.833  | ug/l   | 97       |
| 14) Allyl chloride           | 4.473          | 41   | 54968               | 22.323  | ug/l # | 95       |
| 15) Acrylonitrile            | 5.155          | 53   | 57529               | 106.368 | ug/l   | 99       |
| 16) Acetone                  | 3.942          | 43   | 51960               | 115.173 | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.186          | 76   | 81933               | 23.233  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.473          | 43   | 33667               | 25.362  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 98045               | 19.254  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.704          | 84   | 53969               | 13.908  | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 37522               | 20.415  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.112          | 45   | 127695              | 21.969  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.058          | 43   | 359292              | 104.636 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 74986               | 21.495  | ug/l   | 100      |
| 25) 2-Butanone               | 6.978          | 43   | 79956               | 113.306 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 69171               | 20.619  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 45656               | 19.939  | ug/l   | 93       |
| 28) Bromochloromethane       | 7.332          | 49   | 19241               | 15.655  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 46734               | 107.827 | ug/l   | 89       |
| 30) Chloroform               | 7.503          | 83   | 76361               | 20.232  | ug/l   | 96       |
| 31) Cyclohexane              | 7.783          | 56   | 62424               | 23.195  | ug/l # | 87       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 67255               | 20.022  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 55435               | 20.408  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.070          | 43   | 32555               | 20.749  | ug/l   | 95       |
| 38) Carbon Tetrachloride     | 7.893          | 117  | 59653               | 19.099  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.179          | 83   | 62737               | 19.733  | ug/l   | 93       |
| 40) Benzene                  | 8.155          | 78   | 162414              | 20.056  | ug/l   | 99       |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0926SBS01

Manual Integrations  
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 Supervised By :mohammad ahmed 09/27/2022

Quant Time: Sep 27 06:26:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 01:02:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 18605m   | 23.249  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 49139    | 19.706  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 57787    | 20.093  | ug/l # | 93       |
| 44) Trichloroethene           | 8.935  | 130  | 43259    | 18.661  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 42216    | 20.152  | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 23541    | 19.136  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.496  | 83   | 59253    | 19.506  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.289  | 41   | 25899    | 20.400  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 6743     | 372.741 | ug/l   | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 164673   | 101.416 | ug/l   | 93       |
| 52) Toluene                   | 10.240 | 92   | 102802   | 19.402  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 58238    | 18.961  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 66312    | 19.365  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 33699    | 18.623  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 42580    | 18.164  | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.789 | 76   | 58321    | 19.457  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 90506    | 83.090  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.831 | 43   | 110149   | 100.084 | ug/l   | 90       |
| 60) Dibromochloromethane      | 10.984 | 129  | 40152    | 18.132  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 32082    | 18.938  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.715 | 164  | 41378    | 17.978  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.514 | 112  | 111895   | 18.781  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 42658    | 18.378  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 200690   | 19.183  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 153542   | 37.885  | ug/l   | 95       |
| 69) o-Xylene                  | 12.026 | 106  | 72829    | 18.431  | ug/l   | 94       |
| 70) Styrene                   | 12.044 | 104  | 125111   | 18.639  | ug/l   | 96       |
| 71) Bromoform                 | 12.203 | 173  | 25807    | 17.906  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 195773   | 18.694  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 47299    | 18.625  | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 40151    | 18.815  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 29999m   | 18.549  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 45072    | 18.088  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 242935   | 19.475  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 133352   | 18.762  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 168072   | 18.994  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 13362    | 18.370  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 139380   | 18.990  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 144456   | 18.254  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 167744   | 19.082  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 219441   | 18.933  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 179554   | 18.538  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 93219    | 18.432  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 92744    | 18.528  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.697 | 91   | 168862   | 18.992  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 35630    | 19.160  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 82587    | 18.331  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 6405     | 17.986  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 47150    | 17.156  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 29614    | 17.728  | ug/l   | 98       |
| 95) Naphthalene               | 15.233 | 128  | 91849    | 16.586  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 40578    | 16.957  | ug/l   | 97       |

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Instrument :  
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VY0926SBSD01

Manual Integrations  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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