

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW111221\  
 Data File : VW020860.D  
 Acq On : 12 Nov 2021 17:58  
 Operator : SY/VA  
 Sample : VW1112SBS01  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1112SBS01

Manual Integrations  
 APPROVED

Reviewed By :Vimala Arumugam 11/15/2021  
 Supervised By :Mahesh Dadoda 11/17/2021

Quant Time: Nov 15 00:10:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W111021S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 13 07:30:48 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.945          | 168  | 99429               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.841          | 114  | 143485              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.627         | 117  | 130633              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.554         | 152  | 72892               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.305          | 65   | 45430               | 55.252  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 110.500% |         |        |          |
| 35) Dibromofluoromethane     | 7.884          | 113  | 44695               | 55.718  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 111.440% |         |        |          |
| 50) Toluene-d8               | 10.323         | 98   | 171424              | 54.621  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 109.240% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.615         | 95   | 62950               | 55.595  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 111.180% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.013          | 85   | 4038                | 21.655  | ug/l   | 88       |
| 3) Chloromethane             | 2.214          | 50   | 11112               | 20.667  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.361          | 62   | 10320               | 12.384  | ug/l   | 92       |
| 5) Bromomethane              | 2.763          | 94   | 7179                | 12.416  | ug/l   | 95       |
| 6) Chloroethane              | 2.915          | 64   | 5050                | 13.666  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.245          | 101  | 6310                | 14.945  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.684          | 74   | 6545                | 19.327  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.055          | 101  | 12506               | 16.381  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.269          | 142  | 20132               | 19.207  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.183          | 59   | 8669                | 153.322 | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 4.037          | 96   | 12242               | 16.573  | ug/l   | 97       |
| 13) Acrolein                 | 3.897          | 56   | 1975                | 79.452  | ug/l   | 87       |
| 14) Allyl chloride           | 4.665          | 41   | 20748               | 18.965  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.366          | 53   | 15512               | 80.296  | ug/l   | 97       |
| 16) Acetone                  | 4.123          | 43   | 14807               | 77.400  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.379          | 76   | 30773               | 15.630  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.671          | 43   | 11777               | 16.463  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.427          | 73   | 23328               | 22.152  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.915          | 84   | 15086               | 18.127  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.427          | 96   | 15030               | 18.746  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.317          | 45   | 42406               | 20.642  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.256          | 43   | 116336              | 91.339  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.214          | 63   | 25598               | 18.917  | ug/l   | 97       |
| 25) 2-Butanone               | 7.177          | 43   | 22344               | 81.338  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.165          | 77   | 18865               | 20.543  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.171          | 96   | 17116               | 19.424  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.512          | 49   | 13573               | 21.159  | ug/l # | 89       |
| 29) Tetrahydrofuran          | 7.530          | 42   | 13608               | 79.465  | ug/l   | 97       |
| 30) Chloroform               | 7.677          | 83   | 27803               | 19.500  | ug/l   | 98       |
| 31) Cyclohexane              | 7.951          | 56   | 25941               | 17.589  | ug/l # | 92       |
| 32) 1,1,1-Trichloroethane    | 7.878          | 97   | 23517               | 18.564  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.079          | 75   | 20870               | 17.597  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.250          | 43   | 10253               | 17.906  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.067          | 117  | 21669               | 17.443  | ug/l   | 92       |
| 39) Methylcyclohexane        | 9.335          | 83   | 27986               | 17.990  | ug/l   | 93       |
| 40) Benzene                  | 8.323          | 78   | 58830               | 18.532  | ug/l   | 95       |

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 Sample : VW1112SBS01  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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Manual Integrations  
 APPROVED

Reviewed By :Vimala Arumugam 11/15/2021  
 Supervised By :Mahesh Dadoda 11/17/2021

Quant Time: Nov 15 00:10:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W111021S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 13 07:30:48 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.488  | 41   | 5521     | 16.709  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.396  | 62   | 17877    | 19.135  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.427  | 43   | 19301    | 17.729  | ug/l   | 98       |
| 44) Trichloroethene           | 9.091  | 130  | 18323    | 19.394  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.366  | 63   | 14223    | 19.726  | ug/l   | 97       |
| 46) Dibromomethane            | 9.457  | 93   | 8582     | 19.246  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.646  | 83   | 20974    | 19.683  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.433  | 41   | 8786     | 16.905  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.451  | 88   | 2683     | 397.523 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.207 | 43   | 49862    | 86.246  | ug/l   | 100      |
| 52) Toluene                   | 10.390 | 92   | 39586    | 19.035  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.603 | 75   | 20958    | 19.117  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 24067    | 19.729  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 11768    | 19.877  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 15618    | 19.117  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.932 | 76   | 19809    | 19.805  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.920  | 63   | 48395    | 105.430 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.969 | 43   | 34409    | 81.089  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.127 | 129  | 14691    | 18.885  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.237 | 107  | 11725    | 19.168  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.859 | 164  | 15729    | 18.607  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.658 | 112  | 43284    | 18.948  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 16478    | 19.883  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.731 | 91   | 77251    | 18.397  | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.841 | 106  | 59969    | 36.116  | ug/l   | 97       |
| 69) o-Xylene                  | 12.164 | 106  | 29362    | 19.055  | ug/l   | 92       |
| 70) Styrene                   | 12.182 | 104  | 48781    | 18.954  | ug/l   | 99       |
| 71) Bromoform                 | 12.353 | 173  | 9322     | 17.403  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.463 | 105  | 82135    | 18.063  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.267 | 43   | 19055    | 17.550  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.712 | 83   | 13270    | 16.349  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 10558m   | 18.838  | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 19880    | 18.868  | ug/l   | 90       |
| 78) n-propylbenzene           | 12.804 | 91   | 94971    | 17.192  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.889 | 91   | 52634    | 17.371  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.938 | 105  | 65139    | 17.195  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.511 | 75   | 4432     | 15.566  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 56822    | 18.122  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.206 | 119  | 60395    | 16.980  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 70171    | 18.847  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.383 | 105  | 86319    | 16.978  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.493 | 119  | 76563    | 17.571  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 40217    | 18.874  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.578 | 146  | 39615    | 18.821  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.822 | 91   | 68873    | 16.978  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.090 | 117  | 14310    | 17.080  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.871 | 146  | 34499    | 19.146  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.480 | 75   | 2442     | 14.994  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.127 | 180  | 25303    | 18.433  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.230 | 225  | 14702    | 16.991  | ug/l   | 93       |
| 95) Naphthalene               | 15.364 | 128  | 43886    | 16.344  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.547 | 180  | 22674    | 19.124  | ug/l   | 98       |

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 Sample : VW1112SBSD01  
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 ALS Vial : 5 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_W  
**ClientSampleId :**  
 VW1112SBSD01

**Manual Integrations**  
**APPROVED**

Reviewed By :Vimala Arumugam 11/15/2021  
 Supervised By :Mahesh Dadoda 11/17/2021

Quant Time: Nov 15 00:10:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W111021S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 13 07:30:48 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

