

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092923\  
 Data File : VY015756.D  
 Acq On : 29 Sep 2023 14:55  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Sep 30 01:12:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/02/2023  
 Supervised By :Semsettin Yesilyurt 10/02/2023

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.795  | 168  | 177925   | 50.000 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 8.697  | 114  | 303047   | 50.000 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 11.495 | 117  | 280316   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 143858   | 50.000 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.149  | 65    | 84122    | 42.970   | ug/l | 0.01    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 85.940% |
| 35) Dibromofluoromethane  | 7.728  | 113   | 75722    | 41.747   | ug/l | 0.01    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 83.500% |
| 50) Toluene-d8            | 10.185 | 98    | 264120   | 42.946   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 134 | Recovery | =    | 85.900% |
| 62) 4-Bromofluorobenzene  | 12.489 | 95    | 99977    | 41.424   | ug/l | 0.01    |
| Spiked Amount             | 50.000 | Range | 30 - 143 | Recovery | =    | 82.840% |

#### Target Compounds

|                              |       |     |         |         |        | Qvalue |
|------------------------------|-------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.912 | 85  | 49921   | 42.565  | ug/l   | 97     |
| 3) Chloromethane             | 2.113 | 50  | 66613   | 45.021  | ug/l   | 98     |
| 4) Vinyl Chloride            | 2.253 | 62  | 79610   | 47.059  | ug/l   | 96     |
| 5) Bromomethane              | 2.656 | 94  | 59876   | 40.811  | ug/l   | 99     |
| 6) Chloroethane              | 2.796 | 64  | 56415   | 44.991  | ug/l   | 96     |
| 7) Trichlorofluoromethane    | 3.125 | 101 | 157172  | 55.399  | ug/l   | 98     |
| 8) Diethyl Ether             | 3.533 | 74  | 59419   | 49.111  | ug/l   | 91     |
| 9) 1,1,2-Trichlorotrifluo... | 3.893 | 101 | 80358   | 45.237  | ug/l   | 95     |
| 10) Methyl Iodide            | 4.088 | 142 | 93564   | 45.075  | ug/l   | 98     |
| 11) Tert butyl alcohol       | 5.045 | 59  | 133555  | 330.846 | ug/l # | 83     |
| 12) 1,1-Dichloroethene       | 3.869 | 96  | 71332   | 45.570  | ug/l   | 94     |
| 13) Acrolein                 | 3.741 | 56  | 71527   | 238.572 | ug/l   | 100    |
| 14) Allyl chloride           | 4.485 | 41  | 138879  | 48.526  | ug/l   | 94     |
| 15) Acrylonitrile            | 5.186 | 53  | 258789  | 291.577 | ug/l   | 98     |
| 16) Acetone                  | 3.979 | 43  | 302012  | 288.273 | ug/l   | 93     |
| 17) Carbon Disulfide         | 4.192 | 76  | 130514  | 42.920  | ug/l   | 99     |
| 18) Methyl Acetate           | 4.497 | 43  | 214475  | 61.015  | ug/l   | 93     |
| 19) Methyl tert-butyl Ether  | 5.234 | 73  | 330695  | 51.871  | ug/l   | 99     |
| 20) Methylene Chloride       | 4.722 | 84  | 112675  | 49.014  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene | 5.222 | 96  | 84626   | 47.299  | ug/l   | 97     |
| 22) Diisopropyl ether        | 6.131 | 45  | 338679  | 49.172  | ug/l   | 95     |
| 23) Vinyl Acetate            | 6.070 | 43  | 1091681 | 256.789 | ug/l   | 95     |
| 24) 1,1-Dichloroethane       | 6.027 | 63  | 178473  | 47.540  | ug/l   | 98     |
| 25) 2-Butanone               | 7.008 | 43  | 424606  | 286.735 | ug/l   | 99     |
| 26) 2,2-Dichloropropane      | 6.990 | 77  | 152060  | 44.315  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene   | 6.990 | 96  | 113816  | 47.917  | ug/l   | 94     |
| 28) Bromochloromethane       | 7.344 | 49  | 41598   | 40.841  | ug/l   | 99     |
| 29) Tetrahydrofuran          | 7.362 | 42  | 260844  | 311.649 | ug/l   | 95     |
| 30) Chloroform               | 7.514 | 83  | 192757  | 47.945  | ug/l   | 97     |
| 31) Cyclohexane              | 7.789 | 56  | 113220  | 41.748  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane    | 7.710 | 97  | 158161  | 47.654  | ug/l   | 99     |
| 36) 1,1-Dichloropropene      | 7.923 | 75  | 121909  | 45.456  | ug/l   | 99     |
| 37) Ethyl Acetate            | 7.088 | 43  | 161944  | 60.538  | ug/l   | 98     |
| 38) Carbon Tetrachloride     | 7.905 | 117 | 135459  | 46.532  | ug/l   | 99     |
| 39) Methylcyclohexane        | 9.191 | 83  | 129591  | 43.687  | ug/l   | 94     |
| 40) Benzene                  | 8.167 | 78  | 384421  | 47.003  | ug/l   | 98     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Sep 30 01:12:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 20 01:39:40 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/02/2023  
 Supervised By :Semsettin Yesilyurt 10/02/2023

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 79429m   | 55.145   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 137072   | 48.937   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 252639   | 55.287   | ug/l   | 99       |
| 44) Trichloroethene           | 8.947  | 130  | 110008   | 48.158   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.221  | 63   | 109539   | 48.027   | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 73498    | 50.377   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.502  | 83   | 159145   | 48.939   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.301  | 41   | 109915   | 54.800   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.343  | 88   | 43330    | 1503.334 | ug/l # | 54       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 840381   | 296.715  | ug/l   | 93       |
| 52) Toluene                   | 10.252 | 92   | 246899   | 46.826   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 174320   | 49.987   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 183108   | 48.780   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 108778   | 50.877   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 169453   | 53.781   | ug/l # | 88       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 180126   | 50.238   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.788  | 63   | 176114   | 175.967  | ug/l   | 95       |
| 59) 2-Hexanone                | 10.837 | 43   | 665177   | 306.115  | ug/l   | 91       |
| 60) Dibromochloromethane      | 10.989 | 129  | 127152   | 50.946   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 107032   | 51.171   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.727 | 164  | 118666   | 49.341   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 288982   | 47.229   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 117596   | 49.477   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 504620   | 47.184   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.709 | 106  | 383008   | 94.222   | ug/l   | 96       |
| 69) o-Xylene                  | 12.032 | 106  | 190865   | 47.884   | ug/l   | 97       |
| 70) Styrene                   | 12.050 | 104  | 335924   | 49.235   | ug/l   | 97       |
| 71) Bromoform                 | 12.215 | 173  | 94184    | 54.684   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.337 | 105  | 507360   | 47.013   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 218945   | 53.979   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 157491   | 52.436   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 122473m  | 53.365   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 126433   | 47.728   | ug/l   | 92       |
| 78) n-propylbenzene           | 12.678 | 91   | 615376   | 46.937   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 354798   | 47.476   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 431015   | 47.707   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 56315    | 55.257   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 369654   | 47.382   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 376259   | 47.551   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 433075   | 47.908   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 559286   | 47.230   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 473791   | 47.898   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 250779   | 47.719   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.452 | 146  | 251690   | 47.886   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.702 | 91   | 448140   | 47.844   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.965 | 117  | 93558    | 49.007   | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 234209   | 48.277   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 35790    | 59.999   | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 153349   | 50.210   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 74430    | 47.589   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 454548   | 57.077   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 145114   | 51.479   | ug/l   | 99       |

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Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 10/02/2023  
Supervised By :Semsettin Yesilyurt 10/02/2023

Quant Time: Sep 30 01:12:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091923S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 20 01:39:40 2023  
Response via : Initial Calibration

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

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

