

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111924\  
 Data File : VY020345.D  
 Acq On : 19 Nov 2024 18:52  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY111924

Quant Time: Nov 20 04:42:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 04:33:54 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024  
 Supervised By :Semsettin Yesilyurt 11/25/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.707          | 168  | 218521     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 364341     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 309693     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 141489     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 110537     | 44.029  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 88.060% |        |          |
| 35) Dibromofluoromethane     | 7.634          | 113  | 97280      | 41.639  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 83.280% |        |          |
| 50) Toluene-d8               | 10.103         | 98   | 388428     | 42.207  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 84.420% |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 130125     | 43.984  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 87.960% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 111072     | 52.365  | ug/l   | 97       |
| 3) Chloromethane             | 2.068          | 50   | 125077     | 44.505  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.208          | 62   | 123286     | 42.368  | ug/l   | 99       |
| 5) Bromomethane              | 2.598          | 94   | 68717      | 47.284  | ug/l   | 99       |
| 6) Chloroethane              | 2.739          | 64   | 75903      | 44.715  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 199645     | 49.372  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.458          | 74   | 62415      | 48.920  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 113049     | 46.944  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.007          | 142  | 155561     | 48.226  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 4.872          | 59   | 41539      | 224.231 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 112225     | 47.078  | ug/l   | 95       |
| 13) Acrolein                 | 3.659          | 56   | 41518      | 267.071 | ug/l   | 100      |
| 14) Allyl chloride           | 4.385          | 41   | 220954     | 47.933  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.061          | 53   | 143447     | 254.341 | ug/l   | 99       |
| 16) Acetone                  | 3.873          | 43   | 143018     | 237.630 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.110          | 76   | 373607     | 46.520  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.385          | 43   | 70746      | 50.427  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.116          | 73   | 308971     | 49.895  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.616          | 84   | 123291     | 48.374  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.116          | 96   | 124677     | 47.091  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.025          | 45   | 437612     | 48.173  | ug/l   | 97       |
| 23) Vinyl Acetate            | 5.964          | 43   | 1280046    | 252.147 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.915          | 63   | 244354     | 47.648  | ug/l   | 98       |
| 25) 2-Butanone               | 6.896          | 43   | 202028     | 260.742 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 205933     | 48.584  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 145516     | 49.900  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.250          | 49   | 103614     | 48.005  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.262          | 42   | 124725     | 269.331 | ug/l   | 97       |
| 30) Chloroform               | 7.421          | 83   | 238810     | 48.223  | ug/l   | 97       |
| 31) Cyclohexane              | 7.701          | 56   | 224125     | 47.890  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 219357     | 50.447  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.835          | 75   | 177989     | 49.880  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.988          | 43   | 89280      | 54.618  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 194915     | 52.317  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.110          | 83   | 229207     | 51.325  | ug/l   | 98       |
| 40) Benzene                  | 8.079          | 78   | 531435     | 50.820  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111924\  
 Data File : VY020345.D  
 Acq On : 19 Nov 2024 18:52  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICSVY111924

Quant Time: Nov 20 04:42:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 20 04:33:54 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/20/2024  
 Supervised By :Semsettin Yesilyurt 11/25/2024

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 51821    | 55.717   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 148909   | 52.755   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 177020   | 55.687   | ug/l   | 99       |
| 44) Trichloroethene           | 8.866  | 130  | 124155   | 50.110   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 126442   | 50.680   | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 64729    | 50.618   | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.420  | 83   | 180213   | 51.051   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.219  | 41   | 84558    | 55.637   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.238  | 88   | 13548    | 1029.795 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 442279   | 274.160  | ug/l   | 100      |
| 52) Toluene                   | 10.170 | 92   | 326653   | 51.107   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 172434   | 51.655   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 202123   | 52.893   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 85673    | 50.472   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 136602   | 53.587   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 159236   | 52.199   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 300898   | 248.935  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.762 | 43   | 313607   | 274.534  | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.908 | 129  | 114042   | 52.124   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.012 | 107  | 79188    | 50.344   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.646 | 164  | 109940   | 49.247   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 338718   | 49.054   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131  | 115723   | 50.168   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 635246   | 49.867   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 465220   | 101.387  | ug/l   | 97       |
| 69) o-Xylene                  | 11.957 | 106  | 221747   | 50.951   | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 371095   | 51.321   | ug/l   | 98       |
| 71) Bromoform                 | 12.133 | 173  | 63418    | 52.752   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 592489   | 49.433   | ug/l   | 100      |
| 74) N-ethyl acetate           | 12.072 | 43   | 158787   | 54.821   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 97478    | 50.321   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 71473m   | 53.595   | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 124523   | 49.588   | ug/l   | 96       |
| 78) n-propylbenzene           | 12.597 | 91   | 717478   | 49.879   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 407383   | 49.257   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 478483   | 49.396   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 34976    | 51.391   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 419222   | 49.114   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 433770   | 50.744   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 475972   | 49.562   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 620804   | 46.067   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 516099   | 49.532   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 242241   | 47.709   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 239050   | 49.275   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 497286   | 49.838   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 97244    | 48.355   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 212235   | 50.169   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 15688    | 49.354   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 133013   | 52.001   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 82641    | 52.929   | ug/l   | 99       |
| 95) Naphthalene               | 15.145 | 128  | 250875   | 56.950   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 112500   | 51.439   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111924\  
Data File : VY020345.D  
Acq On : 19 Nov 2024 18:52  
Operator : SY/MD  
Sample : VSTDICV050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
ICVVY111924

Manual Integrations  
APPROVED

Reviewed By :Romaben Patel 11/20/2024  
Supervised By :Semsettin Yesilyurt 11/25/2024

Quant Time: Nov 20 04:42:09 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111924S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 20 04:33:54 2024  
Response via : Initial Calibration

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

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

