

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020724\  
 Data File : VN080948.D  
 Acq On : 07 Feb 2024 20:03  
 Operator : JC\MD  
 Sample : P1372-03MSD  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CG-MW-63MSD

Quant Time: Feb 08 00:32:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020624W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 07 06:22:23 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/08/2024  
 Supervised By : Semsettin Yesilyurt 02/08/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 416318     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 766094     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 690588     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 304615     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.582          | 65   | 260097     | 49.525   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 99.040%  |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 230266     | 56.014   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 112.020% |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 798235     | 53.683   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 107.360% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 290669     | 53.811   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 107.620% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 237660     | 50.388   | ug/l   | 97       |
| 3) Chloromethane             | 2.359          | 50   | 242387     | 49.593   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.506          | 62   | 303891     | 49.334   | ug/l   | 91       |
| 5) Bromomethane              | 2.942          | 94   | 180400     | 45.524   | ug/l   | 94       |
| 6) Chloroethane              | 3.106          | 64   | 205756     | 47.365   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 387351     | 48.026   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.959          | 74   | 136159     | 47.251   | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 4.359          | 101  | 216730     | 47.769   | ug/l   | 91       |
| 10) Methyl Iodide            | 4.583          | 142  | 214889     | 48.975   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.524          | 59   | 205518     | 284.017  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.336          | 96   | 208394     | 46.690   | ug/l   | 89       |
| 13) Acrolein                 | 4.177          | 56   | 213675     | 234.288  | ug/l   | 97       |
| 14) Allyl chloride           | 5.024          | 41   | 278061     | 47.018   | ug/l # | 87       |
| 15) Acrylonitrile            | 5.718          | 53   | 537731     | 271.862  | ug/l   | 98       |
| 16) Acetone                  | 4.424          | 43   | 390048     | 225.740  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.712          | 76   | 499095     | 44.333   | ug/l # | 94       |
| 18) Methyl Acetate           | 5.030          | 43   | 266438     | 52.306   | ug/l # | 86       |
| 19) Methyl tert-butyl Ether  | 5.794          | 73   | 746811     | 50.231   | ug/l   | 95       |
| 20) Methylene Chloride       | 5.277          | 84   | 241097     | 46.056   | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.788          | 96   | 236461     | 47.194   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.671          | 45   | 682198     | 49.767   | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.600          | 43   | 2490053    | 275.671  | ug/l # | 87       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 423006     | 47.384   | ug/l   | 95       |
| 25) 2-Butanone               | 7.482          | 43   | 669750     | 241.495  | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.488          | 77   | 363795     | 44.564   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.488          | 96   | 296090     | 50.858   | ug/l   | 83       |
| 28) Bromochloromethane       | 7.812          | 49   | 182992     | 49.262   | ug/l # | 57       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 451070     | 266.023  | ug/l # | 78       |
| 30) Chloroform               | 7.971          | 83   | 482204     | 48.876   | ug/l   | 97       |
| 31) Cyclohexane              | 8.259          | 56   | 309137     | 43.069   | ug/l # | 73       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 430999     | 50.417   | ug/l   | 89       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 322195     | 52.685   | ug/l   | 95       |
| 37) Ethyl Acetate            | 7.559          | 43   | 266150     | 57.516   | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 354693     | 56.578   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.606          | 83   | 301782     | 44.275   | ug/l # | 84       |
| 40) Benzene                  | 8.606          | 78   | 1000671    | 53.755   | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020724\  
 Data File : VN080948.D  
 Acq On : 07 Feb 2024 20:03  
 Operator : JC\MD  
 Sample : P1372-03MSD  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CG-MW-63MSD

Quant Time: Feb 08 00:32:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020624W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 07 06:22:23 2024  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/08/2024  
 Supervised By : Semsettin Yesilyurt 02/08/2024

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 158340   | 57.417   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 346714   | 53.492   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 494236   | 58.082   | ug/l # | 91       |
| 44) Trichloroethene           | 9.353  | 130  | 265085   | 46.881   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 240623   | 47.907   | ug/l   | 98       |
| 46) Dibromomethane            | 9.712  | 93   | 183661   | 49.450   | ug/l # | 89       |
| 47) Bromodichloromethane      | 9.888  | 83   | 371051   | 51.076   | ug/l # | 94       |
| 48) Methyl methacrylate       | 9.682  | 41   | 224811   | 46.892   | ug/l # | 83       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 96279    | 1087.637 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 1490417  | 290.640  | ug/l   | 90       |
| 52) Toluene                   | 10.635 | 92   | 652481   | 52.328   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 388288   | 55.237   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 398596   | 50.516   | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 11.023 | 97   | 263601   | 54.697   | ug/l   | 91       |
| 56) Ethyl methacrylate        | 10.876 | 69   | 379873   | 65.891   | ug/l # | 83       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 432292   | 55.288   | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 1095630  | 281.892  | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.365 | 129  | 285238   | 57.924   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.470 | 107  | 273258   | 56.842   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.106 | 164  | 352476   | 67.620   | ug/l   | 92       |
| 65) Chlorobenzene             | 11.894 | 112  | 683810   | 47.247   | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 259923   | 49.768   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.965 | 91   | 1194168  | 47.898   | ug/l   | 97       |
| 68) m/p-Xylenes               | 12.076 | 106  | 932482   | 98.446   | ug/l   | 93       |
| 69) o-Xylene                  | 12.400 | 106  | 462143   | 50.282   | ug/l   | 93       |
| 70) Styrene                   | 12.417 | 104  | 771165   | 55.905   | ug/l   | 95       |
| 71) Bromoform                 | 12.582 | 173  | 195666   | 55.936   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1124078  | 47.449   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.494 | 43   | 431318   | 50.509   | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 379424   | 51.485   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 282835m  | 45.538   | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 278958   | 46.668   | ug/l   | 73       |
| 78) n-propylbenzene           | 13.035 | 91   | 1274802  | 47.662   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 802515   | 47.478   | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 917641   | 47.655   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 107957   | 47.224   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.223 | 91   | 796787   | 47.247   | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 757996   | 46.181   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 917461   | 47.838   | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.617 | 105  | 1036300  | 46.985   | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 866513   | 46.488   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 492945   | 46.306   | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 500959   | 46.372   | ug/l   | 96       |
| 89) n-Butylbenzene            | 14.059 | 91   | 701805   | 42.623   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.341 | 117  | 145420   | 49.477   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 481742   | 47.234   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 71235    | 51.676   | ug/l   | 74       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 226972   | 44.989   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 71735    | 32.797   | ug/l   | 96       |
| 95) Naphthalene               | 15.647 | 128  | 860131   | 51.636   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 222250   | 44.754   | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020724\  
Data File : VN080948.D  
Acq On : 07 Feb 2024 20:03  
Operator : JC\MD  
Sample : P1372-03MSD  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
CG-MW-63MSD

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/08/2024  
Supervised By :Semsettin Yesilyurt 02/08/2024

Quant Time: Feb 08 00:32:23 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020624W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 07 06:22:23 2024  
Response via : Initial Calibration

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

