

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071323\  
 Data File : VN078506.D  
 Acq On : 13 Jul 2023 19:05  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/14/2023  
 Supervised By : Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 01:37:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 8.229          | 168  | 448956     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.112          | 114  | 768405     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.870         | 117  | 700770     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 301633     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 267034     | 44.367  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 88.740% |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 234787     | 45.011  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 90.020% |        |          |
| 50) Toluene-d8               | 10.576         | 98   | 875069     | 44.408  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 88.820% |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 281017     | 46.299  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 92.600% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 244125     | 44.350  | ug/l   | 99       |
| 3) Chloromethane             | 2.371          | 50   | 291010     | 48.641  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.518          | 62   | 370657     | 47.892  | ug/l   | 99       |
| 5) Bromomethane              | 2.942          | 94   | 240169     | 48.958  | ug/l   | 98       |
| 6) Chloroethane              | 3.118          | 64   | 238345     | 50.946  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.494          | 101  | 436477     | 47.179  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.971          | 74   | 151995     | 49.311  | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 233439     | 47.666  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.594          | 142  | 338830     | 50.348  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.547          | 59   | 241225     | 259.911 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.341          | 96   | 227190     | 47.958  | ug/l   | 97       |
| 13) Acrolein                 | 4.194          | 56   | 216665     | 237.277 | ug/l   | 99       |
| 14) Allyl chloride           | 5.030          | 41   | 326388     | 50.421  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.735          | 53   | 622561     | 265.488 | ug/l   | 100      |
| 16) Acetone                  | 4.441          | 43   | 485253     | 258.824 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.718          | 76   | 584110     | 42.640  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.041          | 43   | 411204     | 51.811  | ug/l   | 90       |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 791258     | 50.694  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.288          | 84   | 275345     | 51.231  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 255067     | 47.780  | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.688          | 45   | 739885     | 51.046  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.612          | 43   | 2362924    | 256.430 | ug/l # | 89       |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 467634     | 47.880  | ug/l   | 97       |
| 25) 2-Butanone               | 7.494          | 43   | 801502     | 271.581 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 330559     | 41.381  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 304617     | 49.326  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.824          | 49   | 200388     | 43.560  | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.853          | 42   | 522286     | 269.705 | ug/l   | 86       |
| 30) Chloroform               | 7.971          | 83   | 524648     | 51.596  | ug/l   | 94       |
| 31) Cyclohexane              | 8.265          | 56   | 363020     | 44.630  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 458525     | 50.296  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 368890     | 48.978  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.571          | 43   | 337600     | 53.771  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 412462     | 50.388  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.612          | 83   | 344958     | 50.177  | ug/l   | 94       |
| 40) Benzene                  | 8.618          | 78   | 1129746    | 50.631  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071323\  
 Data File : VN078506.D  
 Acq On : 13 Jul 2023 19:05  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 07/14/2023  
 Supervised By :Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 01:37:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.788  | 41   | 175570   | 54.853   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.682  | 62   | 382473   | 50.395   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.700  | 43   | 550631   | 53.269   | ug/l   | 95       |
| 44) Trichloroethene           | 9.359  | 130  | 285581   | 47.487   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.629  | 63   | 288291   | 51.013   | ug/l   | 97       |
| 46) Dibromomethane            | 9.712  | 93   | 207790   | 52.240   | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.894  | 83   | 413989   | 51.922   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.688  | 41   | 253521   | 52.939   | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 119815   | 1147.237 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 1744321  | 283.700  | ug/l   | 93       |
| 52) Toluene                   | 10.635 | 92   | 715405   | 51.732   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 418099   | 51.185   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 450333   | 51.720   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 11.023 | 97   | 285337   | 52.368   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 425032   | 55.804   | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 11.170 | 76   | 475280   | 51.302   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 831480   | 306.328  | ug/l   | 94       |
| 59) 2-Hexanone                | 11.200 | 43   | 1276059  | 292.019  | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.365 | 129  | 320361   | 53.259   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 295850   | 52.710   | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.112 | 164  | 246639   | 46.813   | ug/l   | 93       |
| 65) Chlorobenzene             | 11.894 | 112  | 755754   | 48.248   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.964 | 131  | 297252   | 49.329   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.970 | 91   | 1352245  | 51.072   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 1023848  | 104.588  | ug/l   | 98       |
| 69) o-Xylene                  | 12.406 | 106  | 504169   | 50.989   | ug/l   | 99       |
| 70) Styrene                   | 12.417 | 104  | 823375   | 53.227   | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 217484   | 53.291   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.700 | 105  | 1238558  | 43.699   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.500 | 43   | 460675   | 47.164   | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 418983   | 53.120   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 342106m  | 46.923   | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 300727   | 48.752   | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 1404583  | 46.339   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 881551   | 44.401   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 13.182 | 105  | 1030549  | 46.018   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 136855   | 49.326   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 842180   | 45.471   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.447 | 119  | 860158   | 45.241   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 1014337  | 46.631   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 1106362  | 46.037   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 918166   | 47.581   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 523062   | 48.073   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 493852   | 45.062   | ug/l   | 100      |
| 89) n-Butylbenzene            | 14.064 | 91   | 690322   | 49.997   | ug/l   | 96       |
| 90) Hexachloroethane          | 14.341 | 117  | 174004   | 49.044   | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 14.111 | 146  | 511091   | 47.200   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 71564    | 52.852   | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 177752   | 51.435   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.505 | 225  | 91698    | 51.409   | ug/l   | 97       |
| 95) Naphthalene               | 15.647 | 128  | 560883   | 47.475   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 191314   | 48.145   | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071323\  
Data File : VN078506.D  
Acq On : 13 Jul 2023 19:05  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 01:37:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 10 16:13:53 2023  
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071323\  
Data File : VN078506.D  
Acq On : 13 Jul 2023 19:05  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/14/2023  
Supervised By :Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 01:37:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 10 16:13:53 2023  
Response via : Initial Calibration

