

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072723\  
 Data File : VN078663.D  
 Acq On : 27 Jul 2023 16:31  
 Operator : JC\MD  
 Sample : VN0727WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0727WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/28/2023  
 Supervised By : Semsettin Yesilyurt 07/28/2023

Quant Time: Jul 28 01:08:19 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        | 8.235          | 168  | 499170     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.112          | 114  | 842219     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 724092     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800         | 152  | 297601     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588          | 65   | 320026     | 47.823   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 95.640%  |        |          |
| 35) Dibromofluoromethane     | 8.177          | 113  | 291193     | 50.932   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 101.860% |        |          |
| 50) Toluene-d8               | 10.576         | 98   | 1021282    | 47.286   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 94.580%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 326023     | 49.006   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.020%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 121070     | 19.782   | ug/l   | 94       |
| 3) Chloromethane             | 2.371          | 50   | 147902     | 22.234   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.518          | 62   | 182326     | 21.188   | ug/l   | 95       |
| 5) Bromomethane              | 2.953          | 94   | 143316     | 23.718   | ug/l   | 93       |
| 6) Chloroethane              | 3.124          | 64   | 109357     | 19.850   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 195659     | 19.021   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.971          | 74   | 68606      | 20.018   | ug/l   | 85       |
| 9) 1,1,2-Trichlorotrifluo... | 4.383          | 101  | 107362     | 19.717   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.600          | 142  | 148792     | 19.885   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.542          | 59   | 105292     | 102.036  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 102198     | 19.403   | ug/l   | 91       |
| 13) Acrolein                 | 4.195          | 56   | 93841      | 92.430   | ug/l   | 95       |
| 14) Allyl chloride           | 5.036          | 41   | 143190     | 19.895   | ug/l   | 95       |
| 15) Acrylonitrile            | 5.730          | 53   | 258865     | 99.287   | ug/l   | 99       |
| 16) Acetone                  | 4.442          | 43   | 216564     | 103.891  | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.718          | 76   | 269090     | 17.668   | ug/l   | 97       |
| 18) Methyl Acetate           | 5.047          | 43   | 176729     | 20.028   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 327535     | 18.873   | ug/l   | 97       |
| 20) Methylene Chloride       | 5.277          | 84   | 123479     | 19.916   | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.794          | 96   | 110463     | 18.611   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.689          | 45   | 310654     | 19.276   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.618          | 43   | 975993     | 95.262   | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.583          | 63   | 200907     | 18.501   | ug/l   | 97       |
| 25) 2-Butanone               | 7.494          | 43   | 340381     | 103.733  | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 176178     | 19.836   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.500          | 96   | 131732     | 19.185   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.824          | 49   | 98213      | 19.202   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.853          | 42   | 218492     | 101.478  | ug/l   | 85       |
| 30) Chloroform               | 7.977          | 83   | 223919     | 19.806   | ug/l   | 86       |
| 31) Cyclohexane              | 8.265          | 56   | 162165     | 17.931   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 194980     | 19.236   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.377          | 75   | 156067     | 18.905   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.571          | 43   | 137556     | 19.989   | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.371          | 117  | 176117     | 19.629   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.612          | 83   | 148968     | 19.769   | ug/l   | 93       |
| 40) Benzene                  | 8.612          | 78   | 487882     | 19.949   | ug/l   | 99       |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0727WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/28/2023  
 Supervised By : Semsettin Yesilyurt 07/28/2023

Quant Time: Jul 28 01:08:19 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         | 7.794  | 41   | 70167    | 20.001  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 162192   | 19.497  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.700  | 43   | 244803   | 21.607  | ug/l   | 93       |
| 44) Trichloroethene           | 9.359  | 130  | 125615   | 19.057  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.630  | 63   | 121475   | 19.611  | ug/l   | 93       |
| 46) Dibromomethane            | 9.718  | 93   | 88976    | 20.409  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.894  | 83   | 173552   | 19.859  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.688  | 41   | 103783   | 19.772  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 46582    | 406.935 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.453 | 43   | 706415   | 104.823 | ug/l   | 95       |
| 52) Toluene                   | 10.635 | 92   | 302341   | 19.946  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 178801   | 19.971  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 194720   | 20.403  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 121512   | 20.347  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.882 | 69   | 169211   | 20.269  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 196798   | 19.381  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.171 | 63   | 263582   | 88.596  | ug/l   | 94       |
| 59) 2-Hexanone                | 11.206 | 43   | 501989   | 104.809 | ug/l   | 93       |
| 60) Dibromochloromethane      | 11.365 | 129  | 138429   | 20.996  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.476 | 107  | 127812   | 20.776  | ug/l   | 95       |
| 64) Tetrachloroethene         | 11.112 | 164  | 103680   | 19.045  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.900 | 112  | 320502   | 19.802  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 125557   | 20.165  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.971 | 91   | 548587   | 20.052  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.076 | 106  | 423779   | 41.895  | ug/l   | 99       |
| 69) o-Xylene                  | 12.406 | 106  | 202648   | 19.835  | ug/l   | 95       |
| 70) Styrene                   | 12.418 | 104  | 321406   | 20.108  | ug/l   | 98       |
| 71) Bromoform                 | 12.582 | 173  | 86183    | 20.438  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.700 | 105  | 506499   | 18.113  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.500 | 43   | 180705   | 18.751  | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 172106   | 20.189  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 136924m  | 19.035  | ug/l   |          |
| 77) Bromobenzene              | 12.988 | 156  | 123982   | 19.443  | ug/l   | 96       |
| 78) n-propylbenzene           | 13.041 | 91   | 555308   | 18.569  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 346150   | 17.671  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 412205   | 18.656  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.747 | 75   | 49289    | 18.006  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.229 | 91   | 336482   | 18.413  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 354691   | 18.908  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 398859   | 18.585  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.623 | 105  | 435372   | 18.362  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 350407   | 18.405  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.741 | 146  | 202109   | 18.827  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.817 | 146  | 195264   | 18.058  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.065 | 91   | 261372   | 19.187  | ug/l   | 96       |
| 90) Hexachloroethane          | 14.335 | 117  | 70713    | 19.713  | ug/l   | 83       |
| 91) 1,2-Dichlorobenzene       | 14.112 | 146  | 191857   | 17.958  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 26807    | 18.827  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.400 | 180  | 55839    | 16.377  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 40378    | 20.445  | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 156520   | 13.428  | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 64048    | 16.336  | ug/l   | 97       |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 07/28/2023  
Supervised By :Semsettin Yesilyurt 07/28/2023

Quant Time: Jul 28 01:08:19 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

