

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090324\  
 Data File : VN083636.D  
 Acq On : 03 Sep 2024 19:57  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 09/04/2024  
 Supervised By :Mahesh Dadoda 09/04/2024

Quant Time: Sep 04 03:02:56 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 31 00:48:10 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 8.224          | 168  | 172833               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 310182               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 287918               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 151598               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 133271               | 55.173  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 110.340%  |         |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 99130                | 53.098  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 106.200%  |         |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 371325               | 50.994  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 101.980%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 163406               | 60.674  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = 121.340%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 91551                | 50.050  | ug/l   | 97       |
| 3) Chloromethane             | 2.359          | 50   | 96566                | 45.319  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.512          | 62   | 102089               | 47.873  | ug/l   | 96       |
| 5) Bromomethane              | 2.901          | 94   | 51160                | 45.636  | ug/l   | 94       |
| 6) Chloroethane              | 3.065          | 64   | 67364                | 48.341  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.465          | 101  | 172976               | 49.256  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.959          | 74   | 60370                | 48.088  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.353          | 101  | 91690                | 48.143  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.571          | 142  | 123965               | 48.118  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.536          | 59   | 94899                | 251.974 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.324          | 96   | 90404                | 47.747  | ug/l   | 98       |
| 13) Acrolein                 | 4.171          | 56   | 78271                | 219.670 | ug/l   | 98       |
| 14) Allyl chloride           | 5.012          | 41   | 160534               | 47.554  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.718          | 53   | 234036               | 251.976 | ug/l   | 99       |
| 16) Acetone                  | 4.430          | 43   | 199589               | 207.202 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.695          | 76   | 231519               | 41.960  | ug/l   | 99       |
| 18) Methyl Acetate           | 5.024          | 43   | 118690               | 46.332  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.789          | 73   | 334862               | 49.859  | ug/l   | 100      |
| 20) Methylene Chloride       | 5.271          | 84   | 100612               | 47.299  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.777          | 96   | 93883                | 47.602  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.671          | 45   | 338293               | 50.821  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.600          | 43   | 1273379              | 258.133 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 185779               | 48.940  | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 313245               | 238.844 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.483          | 77   | 157556               | 44.580  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 116155               | 49.355  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.806          | 49   | 85030                | 47.968  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 203257               | 249.856 | ug/l   | 99       |
| 30) Chloroform               | 7.959          | 83   | 203147               | 50.795  | ug/l   | 94       |
| 31) Cyclohexane              | 8.253          | 56   | 165606               | 44.321  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 188196               | 52.039  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 136786               | 48.035  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.559          | 43   | 135883               | 47.947  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 163913               | 50.450  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.600          | 83   | 156498               | 45.799  | ug/l   | 98       |
| 40) Benzene                  | 8.600          | 78   | 421730               | 48.143  | ug/l   | 98       |

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 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/04/2024  
 Supervised By : Mahesh Dadoda 09/04/2024

Quant Time: Sep 04 03:02:56 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 31 00:48:10 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 77266    | 47.776  | ug/l   | 100      |
| 42) 1,2-Dichloroethane        | 8.671  | 62   | 159705   | 49.183  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 327950   | 57.851  | ug/l # | 91       |
| 44) Trichloroethene           | 9.347  | 130  | 99592    | 47.261  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 102810   | 50.382  | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 73988    | 49.146  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.883  | 83   | 160265   | 50.010  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.683  | 41   | 118124   | 50.817  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 37974    | 996.988 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 677981   | 257.321 | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 267794   | 48.880  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 164918   | 49.710  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 171279   | 49.187  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 97814    | 50.022  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 172432   | 53.304  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 173519   | 50.122  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 363816   | 258.830 | ug/l   | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 496477   | 251.085 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 117389   | 51.809  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 101530   | 50.821  | ug/l   | 98       |
| 64) Tetrachloroethene         | 11.100 | 164  | 83378    | 44.057  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.888 | 112  | 284685   | 44.089  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 103472   | 47.463  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 534625   | 46.385  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 391123   | 90.079  | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 198598   | 47.324  | ug/l   | 96       |
| 70) Styrene                   | 12.412 | 104  | 332687   | 47.149  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 76357    | 49.174  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.694 | 105  | 509319   | 41.509  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 231020   | 43.378  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 143509   | 41.199  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 122083m  | 39.887  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 115613   | 40.162  | ug/l   | 99       |
| 78) n-propylbenzene           | 13.035 | 91   | 593939   | 41.867  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 373648   | 40.646  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 421561   | 40.784  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 50186    | 38.673  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 365967   | 39.188  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 376491   | 40.968  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 440510   | 42.339  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.618 | 105  | 513162   | 42.012  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 441162   | 43.242  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 216898   | 38.815  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 216398   | 37.688  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 371495   | 41.397  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.335 | 117  | 75410    | 37.974  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 219759   | 40.837  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 33277    | 44.048  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 120775   | 39.577  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 44552    | 36.456  | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128  | 418143   | 42.648  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 115915   | 38.025  | ug/l   | 95       |

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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/04/2024  
Supervised By :Mahesh Dadoda 09/04/2024

Quant Time: Sep 04 03:02:56 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 31 00:48:10 2024  
Response via : Initial Calibration

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

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

