

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042722\  
 Data File : VN072231.D  
 Acq On : 27 Apr 2022 21:18  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Apr 28 06:07:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/28/2022  
 Supervised By : Mahesh Dadoda 04/28/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 8.081          | 168  | 258011              | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.963          | 114  | 432906              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.739         | 117  | 401686              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.668         | 152  | 163527              | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.433          | 65   | 205421              | 51.860  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 103.720% |         |       |          |
| 35) Dibromofluoromethane     | 8.016          | 113  | 141884              | 51.206  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 102.420% |         |       |          |
| 50) Toluene-d8               | 10.439         | 98   | 573375              | 52.662  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 105.320% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.727         | 95   | 201770              | 55.832  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 111.660% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.069          | 85   | 137847              | 47.659  | ug/l  | 98       |
| 3) Chloromethane             | 2.299          | 50   | 143768              | 44.210  | ug/l  | 99       |
| 4) Vinyl Chloride            | 2.440          | 62   | 122634              | 42.222  | ug/l  | 99       |
| 5) Bromomethane              | 2.834          | 94   | 68781               | 49.445  | ug/l  | 99       |
| 6) Chloroethane              | 3.004          | 64   | 74842               | 45.436  | ug/l  | 97       |
| 7) Trichlorofluoromethane    | 3.369          | 101  | 229144              | 45.158  | ug/l  | 99       |
| 8) Diethyl Ether             | 3.828          | 74   | 86864               | 47.275  | ug/l  | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 4.204          | 101  | 121451              | 45.566  | ug/l  | 95       |
| 10) Methyl Iodide            | 4.422          | 142  | 154074              | 47.621  | ug/l  | # 86     |
| 11) Tert butyl alcohol       | 5.363          | 59   | 153171              | 235.308 | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 112714              | 45.740  | ug/l  | 93       |
| 13) Acrolein                 | 4.040          | 56   | 141358              | 215.789 | ug/l  | 97       |
| 14) Allyl chloride           | 4.840          | 41   | 234504              | 45.833  | ug/l  | 93       |
| 15) Acrylonitrile            | 5.545          | 53   | 459353              | 233.850 | ug/l  | 99       |
| 16) Acetone                  | 4.281          | 43   | 385273              | 225.601 | ug/l  | 98       |
| 17) Carbon Disulfide         | 4.534          | 76   | 255359              | 44.087  | ug/l  | 97       |
| 18) Methyl Acetate           | 4.851          | 43   | 220149              | 46.109  | ug/l  | 91       |
| 19) Methyl tert-butyl Ether  | 5.610          | 73   | 481966              | 49.896  | ug/l  | 100      |
| 20) Methylene Chloride       | 5.092          | 84   | 146159              | 44.649  | ug/l  | 89       |
| 21) trans-1,2-Dichloroethene | 5.592          | 96   | 121041              | 44.545  | ug/l  | 89       |
| 22) Diisopropyl ether        | 6.492          | 45   | 484985              | 46.019  | ug/l  | 97       |
| 23) Vinyl Acetate            | 6.428          | 43   | 2106785             | 238.027 | ug/l  | 94       |
| 24) 1,1-Dichloroethane       | 6.386          | 63   | 268615              | 45.567  | ug/l  | 99       |
| 25) 2-Butanone               | 7.333          | 43   | 618397              | 227.374 | ug/l  | 92       |
| 26) 2,2-Dichloropropane      | 7.322          | 77   | 209980              | 45.600  | ug/l  | 96       |
| 27) cis-1,2-Dichloroethene   | 7.322          | 96   | 152103              | 45.916  | ug/l  | 91       |
| 28) Bromochloromethane       | 7.651          | 49   | 118243              | 44.795  | ug/l  | 83       |
| 29) Tetrahydrofuran          | 7.675          | 42   | 413831              | 231.854 | ug/l  | 90       |
| 30) Chloroform               | 7.816          | 83   | 275409              | 46.531  | ug/l  | 99       |
| 31) Cyclohexane              | 8.092          | 56   | 224174              | 42.356  | ug/l  | 92       |
| 32) 1,1,1-Trichloroethane    | 8.010          | 97   | 245199              | 48.680  | ug/l  | 100      |
| 36) 1,1-Dichloropropene      | 8.216          | 75   | 187917              | 46.593  | ug/l  | 96       |
| 37) Ethyl Acetate            | 7.404          | 43   | 247921              | 46.288  | ug/l  | 97       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 207041              | 47.930  | ug/l  | 99       |
| 39) Methylcyclohexane        | 9.457          | 83   | 215871              | 47.856  | ug/l  | 91       |
| 40) Benzene                  | 8.457          | 78   | 580709              | 46.419  | ug/l  | 98       |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/28/2022  
 Supervised By : Mahesh Dadoda 04/28/2022

Quant Time: Apr 28 06:07:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 26 18:50:11 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.628  | 41   | 132434   | 48.876   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 232536   | 48.552   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.557  | 43   | 382741   | 45.584   | ug/l   | 96       |
| 44) Trichloroethene           | 9.210  | 130  | 134170   | 46.105   | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.486  | 63   | 156399   | 46.267   | ug/l   | 97       |
| 46) Dibromomethane            | 9.575  | 93   | 103158   | 48.714   | ug/l   | 89       |
| 47) Bromodichloromethane      | 9.757  | 83   | 218049   | 49.074   | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.557  | 41   | 174229   | 49.245   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.563  | 88   | 62709    | 1009.010 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone      | 10.327 | 43   | 1260442  | 249.413  | ug/l   | 95       |
| 52) Toluene                   | 10.504 | 92   | 372510   | 49.809   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.716 | 75   | 232384   | 52.028   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.186 | 75   | 247313   | 51.199   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.892 | 97   | 151053   | 48.171   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.757 | 69   | 252657   | 46.196   | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 11.039 | 76   | 267804   | 48.668   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.039 | 63   | 309226   | 212.179  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.080 | 43   | 910707   | 255.776  | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.233 | 129  | 161846   | 50.474   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.339 | 107  | 153382   | 49.736   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.974 | 164  | 112869   | 46.680   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.769 | 112  | 383422   | 47.242   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 149795   | 48.981   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.839 | 91   | 717977   | 50.726   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.951 | 106  | 528395   | 100.532  | ug/l   | 89       |
| 69) o-Xylene                  | 12.274 | 106  | 263713   | 51.755   | ug/l   | 90       |
| 70) Styrene                   | 12.292 | 104  | 432547   | 53.893   | ug/l   | 95       |
| 71) Bromoform                 | 12.451 | 173  | 118485   | 52.092   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.574 | 105  | 704017   | 48.745   | ug/l   | 97       |
| 74) N-amyl acetate            | 12.380 | 43   | 263504   | 48.698   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 234446   | 48.631   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.874 | 75   | 214046m  | 55.344   | ug/l   |          |
| 77) Bromobenzene              | 12.857 | 156  | 153860   | 45.048   | ug/l   | 84       |
| 78) n-propylbenzene           | 12.915 | 91   | 787816   | 49.514   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 495794   | 47.441   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 588287   | 48.910   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.621 | 75   | 65768    | 46.503   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 13.098 | 91   | 464489   | 47.746   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 517544   | 49.007   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 586071   | 50.360   | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.498 | 105  | 696253   | 50.569   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.610 | 119  | 555069   | 51.711   | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.610 | 146  | 263409   | 47.651   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.692 | 146  | 254398   | 47.323   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.939 | 91   | 436965   | 53.147   | ug/l   | 96       |
| 90) Hexachloroethane          | 14.204 | 117  | 106483   | 45.698   | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 256607   | 47.097   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 46637    | 46.689   | ug/l   | 81       |
| 93) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 115773   | 46.160   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.368 | 225  | 65912    | 45.145   | ug/l   | 99       |
| 95) Naphthalene               | 15.504 | 128  | 362313   | 43.398   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.692 | 180  | 115033   | 46.049   | ug/l   | 97       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/28/2022  
Supervised By :Mahesh Dadoda 04/28/2022

Quant Time: Apr 28 06:07:48 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042622W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 26 18:50:11 2022  
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

