

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110322\  
 Data File : VN075140.D  
 Acq On : 03 Nov 2022 13:36  
 Operator : JC\MD  
 Sample : VN1103WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1103WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/04/2022  
 Supervised By : Mahesh Dadoda 11/04/2022

Quant Time: Nov 04 04:10:02 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 09:48:49 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.230          | 168  | 81878               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106          | 114  | 150430              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.871         | 117  | 137248              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794         | 152  | 64666               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 61847               | 56.061  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 112.120% |         |        |          |
| 35) Dibromofluoromethane     | 8.171          | 113  | 48527               | 54.951  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 109.900% |         |        |          |
| 50) Toluene-d8               | 10.571         | 98   | 181990              | 53.117  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.240% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.853         | 95   | 63170               | 52.486  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 104.980% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.136          | 85   | 19181               | 18.008  | ug/l   | 99       |
| 3) Chloromethane             | 2.371          | 50   | 22646               | 20.016  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.524          | 62   | 30747               | 19.050  | ug/l   | 98       |
| 5) Bromomethane              | 2.942          | 94   | 25950               | 19.496  | ug/l   | 99       |
| 6) Chloroethane              | 3.112          | 64   | 23620               | 20.409  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 33843               | 20.526  | ug/l   | 89       |
| 8) Diethyl Ether             | 3.977          | 74   | 12539               | 20.850  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 18792               | 20.638  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.595          | 142  | 25336               | 18.691  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.542          | 59   | 25313               | 98.390  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.348          | 96   | 16894               | 19.465  | ug/l   | 90       |
| 13) Acrolein                 | 4.189          | 56   | 20787               | 98.781  | ug/l   | 96       |
| 14) Allyl chloride           | 5.036          | 41   | 21936               | 17.305  | ug/l   | 88       |
| 15) Acrylonitrile            | 5.736          | 53   | 60327               | 111.004 | ug/l   | 98       |
| 16) Acetone                  | 4.448          | 43   | 51607               | 110.478 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.724          | 76   | 39077               | 17.904  | ug/l   | 100      |
| 18) Methyl Acetate           | 5.042          | 43   | 35732               | 23.418  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.812          | 73   | 65701               | 20.367  | ug/l   | 99       |
| 20) Methylene Chloride       | 5.277          | 84   | 21794               | 20.925  | ug/l # | 81       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 18270               | 19.226  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.683          | 45   | 57819               | 20.669  | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.612          | 43   | 238372m             | 102.043 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.577          | 63   | 35743               | 20.203  | ug/l   | 97       |
| 25) 2-Butanone               | 7.494          | 43   | 82324               | 112.045 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.500          | 77   | 31787               | 19.530  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.494          | 96   | 22452               | 19.784  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.824          | 49   | 16315               | 21.875  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.847          | 42   | 51938               | 109.393 | ug/l   | 97       |
| 30) Chloroform               | 7.971          | 83   | 40115               | 20.883  | ug/l   | 96       |
| 31) Cyclohexane              | 8.259          | 56   | 30757               | 18.745  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.177          | 97   | 35527               | 20.366  | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 26388               | 19.301  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.565          | 43   | 31471               | 20.989  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.365          | 117  | 29909               | 19.887  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.606          | 83   | 33847               | 18.753  | ug/l   | 98       |
| 40) Benzene                  | 8.612          | 78   | 86166               | 20.584  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110322\  
 Data File : VN075140.D  
 Acq On : 03 Nov 2022 13:36  
 Operator : JC\MD  
 Sample : VN1103WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1103WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/04/2022  
 Supervised By : Mahesh Dadoda 11/04/2022

Quant Time: Nov 04 04:10:02 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 09:48:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.789  | 41   | 17816    | 24.801  | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 31880    | 20.932  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 49311    | 21.202  | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 21478    | 20.450  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 21483    | 21.564  | ug/l   | 96       |
| 46) Dibromomethane            | 9.712  | 93   | 16462    | 21.210  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.888  | 83   | 32017    | 21.302  | ug/l   | 87       |
| 48) Methyl methacrylate       | 9.683  | 41   | 21463    | 20.118  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 11406    | 408.282 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 163245   | 108.772 | ug/l   | 100      |
| 52) Toluene                   | 10.635 | 92   | 55515    | 19.839  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 31731    | 20.001  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.318 | 75   | 35266    | 20.959  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 23367    | 21.060  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 33172    | 19.600  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 11.171 | 76   | 39209    | 21.219  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 63454    | 96.978  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 121420   | 106.597 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 23563    | 20.129  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 23104    | 20.319  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 19230    | 22.853  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.894 | 112  | 59257    | 20.227  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 21824    | 20.082  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 102894   | 19.522  | ug/l   | 100      |
| 68) m/p-Xylenes               | 12.077 | 106  | 82025    | 38.785  | ug/l   | 96       |
| 69) o-Xylene                  | 12.400 | 106  | 40394    | 19.313  | ug/l   | 99       |
| 70) Styrene                   | 12.412 | 104  | 64055    | 19.208  | ug/l   | 96       |
| 71) Bromoform                 | 12.582 | 173  | 16040    | 19.714  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.700 | 105  | 105013   | 20.228  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 39792    | 20.724  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 35553    | 21.567  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 29533m   | 21.509  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 23217    | 20.311  | ug/l   | 93       |
| 78) n-propylbenzene           | 13.035 | 91   | 123417   | 21.174  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 73758    | 20.708  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 90603    | 20.779  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.741 | 75   | 10134    | 18.946  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.124 | 91   | 73758    | 20.708  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 77018    | 19.878  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 93244    | 21.135  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 112993   | 20.847  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 89980    | 20.101  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 45226    | 20.207  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 44833    | 20.240  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.059 | 91   | 72475    | 20.106  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.335 | 117  | 15326    | 18.674  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 46687    | 20.982  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 7609     | 21.729  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 19589    | 20.459  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 9342     | 20.014  | ug/l   | 97       |
| 95) Naphthalene               | 15.641 | 128  | 73291    | 19.905  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 19203    | 20.185  | ug/l   | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN110322\  
Data File : VN075140.D  
Acq On : 03 Nov 2022 13:36  
Operator : JC\MD  
Sample : VN1103WBSD01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1103WBSD01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/04/2022  
Supervised By :Mahesh Dadoda 11/04/2022

Quant Time: Nov 04 04:10:02 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102622W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 27 09:48:49 2022  
Response via : Initial Calibration

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

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

