

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051425\  
 Data File : VN086619.D  
 Acq On : 14 May 2025 11:58  
 Operator : JC\MD  
 Sample : VN0514MBS01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0514MBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/15/2025  
 Supervised By : Mahesh Dadoda 05/15/2025

Quant Time: May 15 03:00:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                        |                |      |            |           |        |          |
| Internal Standards           |                |      |            |           |        |          |
| 1) Pentafluorobenzene        | 8.218          | 168  | 176092     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.100          | 114  | 316437     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.865         | 117  | 286258     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.788         | 152  | 130977     | 50.000    | ug/l   | 0.00     |
|                              |                |      |            |           |        |          |
| System Monitoring Compounds  |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.577          | 65   | 121123     | 47.434    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 94.860%   |        |          |
| 35) Dibromofluoromethane     | 8.165          | 113  | 93557      | 63.704    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 127.400%# |        |          |
| 50) Toluene-d8               | 10.565         | 98   | 386084     | 49.189    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 98.380%   |        |          |
| 62) 4-Bromofluorobenzene     | 12.847         | 95   | 139130     | 48.598    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 77 - 121 |      | Recovery = | 97.200%   |        |          |
|                              |                |      |            |           |        |          |
| Target Compounds             |                |      |            |           | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 45863      | 21.971    | ug/l   | 95       |
| 3) Chloromethane             | 2.359          | 50   | 61001      | 20.107    | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.512          | 62   | 57725      | 19.939    | ug/l   | 95       |
| 5) Bromomethane              | 2.954          | 94   | 33047      | 25.377    | ug/l   | 98       |
| 6) Chloroethane              | 3.118          | 64   | 37807      | 19.512    | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.501          | 101  | 67088      | 20.920    | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959          | 74   | 26988      | 19.278    | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 40045      | 20.642    | ug/l   | 97       |
| 10) Methyl Iodide            | 4.589          | 142  | 46250      | 21.685    | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.518          | 59   | 42914      | 92.109    | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.342          | 96   | 40578      | 19.578    | ug/l   | 97       |
| 13) Acrolein                 | 4.183          | 56   | 22630      | 94.798    | ug/l   | 97       |
| 14) Allyl chloride           | 5.024          | 41   | 65964m     | 17.904    | ug/l   |          |
| 15) Acrylonitrile            | 5.712          | 53   | 111628     | 96.921    | ug/l   | 100      |
| 16) Acetone                  | 4.424          | 43   | 88539      | 96.790    | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.712          | 76   | 110043     | 17.732    | ug/l   | 99       |
| 18) Methyl Acetate           | 5.018          | 43   | 51261      | 16.724    | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.795          | 73   | 140524     | 18.445    | ug/l   | 97       |
| 20) Methylene Chloride       | 5.277          | 84   | 49118      | 20.807    | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.783          | 96   | 43935      | 20.276    | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.671          | 45   | 142855     | 17.824    | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.600          | 43   | 524515     | 93.616    | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.565          | 63   | 82683      | 19.552    | ug/l   | 98       |
| 25) 2-Butanone               | 7.483          | 43   | 144651     | 91.009    | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.489          | 77   | 72180      | 19.063    | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.483          | 96   | 53594      | 19.928    | ug/l   | 96       |
| 28) Bromochloromethane       | 7.818          | 49   | 35301      | 19.687    | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.841          | 42   | 92606      | 87.130    | ug/l   | 96       |
| 30) Chloroform               | 7.965          | 83   | 85111      | 20.488    | ug/l   | 95       |
| 31) Cyclohexane              | 8.259          | 56   | 74175      | 17.925    | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 72004      | 20.261    | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.371          | 75   | 59349      | 20.233    | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.559          | 43   | 58845      | 19.055    | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.359          | 117  | 60502      | 21.658    | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.594          | 83   | 65109      | 18.674    | ug/l   | 98       |
| 40) Benzene                  | 8.606          | 78   | 195065     | 20.755    | ug/l   | 100      |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Manual Integrations  
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Reviewed By : John Carlone 05/15/2025  
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Quant Time: May 15 03:00:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 30959    | 17.297  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 61764    | 20.608  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.683  | 43   | 109857   | 18.382  | ug/l   | 100      |
| 44) Trichloroethene           | 9.347  | 130  | 46720    | 20.974  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 46006    | 19.998  | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 31992    | 21.826  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.883  | 83   | 65287    | 20.622  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.677  | 41   | 47188    | 17.400  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 19351    | 419.487 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 302630   | 95.698  | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 122481   | 20.886  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 70701    | 20.006  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.306 | 75   | 75430    | 19.433  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 45202    | 21.424  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 73252    | 18.888  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 78330    | 20.924  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 152769   | 82.991  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.188 | 43   | 223138   | 95.130  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.359 | 129  | 49978    | 21.571  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 46041    | 21.626  | ug/l   | 99       |
| 64) Tetrachloroethene         | 11.100 | 164  | 47045    | 21.365  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.888 | 112  | 136463   | 21.361  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.953 | 131  | 44279    | 21.010  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.959 | 91   | 233298   | 20.238  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.065 | 106  | 178924   | 41.423  | ug/l   | 97       |
| 69) o-Xylene                  | 12.394 | 106  | 87836    | 20.562  | ug/l   | 98       |
| 70) Styrene                   | 12.406 | 104  | 147642   | 20.743  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 32265    | 20.334  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.694 | 105  | 213542   | 19.931  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.488 | 43   | 91055    | 17.071  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 65057    | 21.118  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 52646m   | 17.033  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 51524    | 21.704  | ug/l   | 94       |
| 78) n-propylbenzene           | 13.029 | 91   | 248262   | 19.664  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 158065   | 20.008  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 174680   | 19.920  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.729 | 75   | 25872    | 20.103  | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 157581   | 20.080  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 147808   | 19.453  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 174838   | 19.587  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.612 | 105  | 206727   | 19.615  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.723 | 119  | 168889   | 19.441  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 92845    | 20.805  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.806 | 146  | 91780    | 20.418  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 142544   | 18.512  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 28614    | 19.582  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.100 | 146  | 87982    | 20.334  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 11300    | 18.192  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 37942    | 18.313  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.494 | 225  | 15213    | 19.452  | ug/l   | 98       |
| 95) Naphthalene               | 15.635 | 128  | 125226   | 17.051  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 36812    | 18.767  | ug/l   | 99       |

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MSVOA\_N  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 05/15/2025  
Supervised By :Mahesh Dadoda 05/15/2025

Quant Time: May 15 03:00:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 16 04:19:23 2025  
Response via : Initial Calibration

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

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

