

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN103123\  
 Data File : VN079740.D  
 Acq On : 31 Oct 2023 13:34  
 Operator : JC\MD  
 Sample : VN1031MBS02  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031MBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/01/2023  
 Supervised By : Semsettin Yesilyurt 11/02/2023

Quant Time: Nov 01 01:18:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103023W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 07:23:24 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Pentafluorobenzene        | 8.230  | 168   | 253006   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.106  | 114   | 445277   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5         | 11.871 | 117   | 402180   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.794 | 152   | 161742   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4    | 8.583  | 65    | 220788   | 54.341   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 74 - 125 | Recovery | = 108.680% |          |
| 35) Dibromofluoromethane     | 8.171  | 113   | 169852   | 53.383   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | = 106.760% |          |
| 50) Toluene-d8               | 10.571 | 98    | 644792   | 54.362   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | = 108.720% |          |
| 62) 4-Bromofluorobenzene     | 12.853 | 95    | 196032   | 52.483   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | = 104.960% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.130  | 85    | 66180    | 19.815   | ug/l       | 97       |
| 3) Chloromethane             | 2.365  | 50    | 76484    | 18.903   | ug/l       | 97       |
| 4) Vinyl Chloride            | 2.518  | 62    | 79963    | 18.351   | ug/l       | 98       |
| 5) Bromomethane              | 2.959  | 94    | 59348    | 20.749   | ug/l       | 97       |
| 6) Chloroethane              | 3.124  | 64    | 66104    | 20.708   | ug/l       | 96       |
| 7) Trichlorofluoromethane    | 3.501  | 101   | 100197   | 19.554   | ug/l       | 100      |
| 8) Diethyl Ether             | 3.959  | 74    | 36290    | 19.570   | ug/l       | 66       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377  | 101   | 58975    | 19.872   | ug/l       | 98       |
| 10) Methyl Iodide            | 4.601  | 142   | 64017    | 21.432   | ug/l       | 95       |
| 11) Tert butyl alcohol       | 5.524  | 59    | 48684    | 90.339   | ug/l       | 99       |
| 12) 1,1-Dichloroethene       | 4.348  | 96    | 52207    | 18.781   | ug/l       | 84       |
| 13) Acrolein                 | 4.183  | 56    | 54734    | 100.967  | ug/l       | 95       |
| 14) Allyl chloride           | 5.030  | 41    | 92414    | 19.824   | ug/l #     | 88       |
| 15) Acrylonitrile            | 5.724  | 53    | 165234   | 99.642   | ug/l       | 99       |
| 16) Acetone                  | 4.430  | 43    | 149338   | 85.911   | ug/l       | 92       |
| 17) Carbon Disulfide         | 4.712  | 76    | 153026   | 18.027   | ug/l       | 98       |
| 18) Methyl Acetate           | 5.024  | 43    | 138919   | 19.809   | ug/l #     | 84       |
| 19) Methyl tert-butyl Ether  | 5.800  | 73    | 185535   | 19.726   | ug/l #     | 90       |
| 20) Methylene Chloride       | 5.283  | 84    | 69672    | 20.241   | ug/l #     | 79       |
| 21) trans-1,2-Dichloroethene | 5.783  | 96    | 60381    | 19.137   | ug/l       | 86       |
| 22) Diisopropyl ether        | 6.677  | 45    | 212740   | 20.299   | ug/l #     | 91       |
| 23) Vinyl Acetate            | 6.606  | 43    | 560840   | 97.198   | ug/l #     | 86       |
| 24) 1,1-Dichloroethane       | 6.571  | 63    | 125367   | 19.962   | ug/l       | 99       |
| 25) 2-Butanone               | 7.489  | 43    | 212006   | 88.790   | ug/l #     | 82       |
| 26) 2,2-Dichloropropane      | 7.494  | 77    | 94974    | 18.689   | ug/l       | 98       |
| 27) cis-1,2-Dichloroethene   | 7.489  | 96    | 72575    | 19.977   | ug/l       | 87       |
| 28) Bromochloromethane       | 7.818  | 49    | 69148    | 22.511   | ug/l #     | 72       |
| 29) Tetrahydrofuran          | 7.847  | 42    | 140982   | 96.648   | ug/l #     | 75       |
| 30) Chloroform               | 7.971  | 83    | 125764   | 19.887   | ug/l       | 91       |
| 31) Cyclohexane              | 8.265  | 56    | 102654   | 18.519   | ug/l       | 83       |
| 32) 1,1,1-Trichloroethane    | 8.171  | 97    | 105684   | 19.278   | ug/l       | 96       |
| 36) 1,1-Dichloropropene      | 8.377  | 75    | 90053    | 19.078   | ug/l       | 95       |
| 37) Ethyl Acetate            | 7.559  | 43    | 93128    | 19.905   | ug/l #     | 90       |
| 38) Carbon Tetrachloride     | 8.365  | 117   | 90975    | 19.327   | ug/l       | 98       |
| 39) Methylcyclohexane        | 9.606  | 83    | 83638    | 17.814   | ug/l #     | 86       |
| 40) Benzene                  | 8.612  | 78    | 274810   | 19.726   | ug/l       | 98       |

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 Sample : VN1031MBS02  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031MBS02

Manual Integrations  
 APPROVED

Reviewed By :John Carlone 11/01/2023  
 Supervised By :Semsettin Yesilyurt 11/02/2023

Quant Time: Nov 01 01:18:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103023W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 07:23:24 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.783  | 41   | 47631    | 19.520  | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.677  | 62   | 102803   | 20.318  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.694  | 43   | 143303   | 19.159  | ug/l # | 91       |
| 44) Trichloroethene           | 9.359  | 130  | 64771    | 19.194  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.624  | 63   | 74171    | 20.046  | ug/l   | 96       |
| 46) Dibromomethane            | 9.712  | 93   | 49155    | 19.697  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.894  | 83   | 101947   | 20.364  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.683  | 41   | 66146    | 19.075  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.700  | 88   | 22927    | 375.720 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone      | 10.447 | 43   | 451104   | 96.930  | ug/l   | 89       |
| 52) Toluene                   | 10.635 | 92   | 165871   | 19.503  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.841 | 75   | 98012    | 19.388  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 108602   | 19.636  | ug/l # | 87       |
| 55) 1,1,2-Trichloroethane     | 11.024 | 97   | 69162    | 20.563  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 91022    | 19.162  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 11.165 | 76   | 121169   | 20.585  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63   | 163790   | 93.593  | ug/l   | 89       |
| 59) 2-Hexanone                | 11.200 | 43   | 318635   | 93.115  | ug/l   | 86       |
| 60) Dibromochloromethane      | 11.365 | 129  | 71049    | 20.414  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 64286    | 19.184  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.106 | 164  | 58714    | 20.579  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.894 | 112  | 172882   | 19.421  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.965 | 131  | 65541    | 19.815  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.965 | 91   | 295851   | 18.865  | ug/l   | 98       |
| 68) m/p-Xylenes               | 12.077 | 106  | 225714   | 38.914  | ug/l   | 94       |
| 69) o-Xylene                  | 12.400 | 106  | 107445   | 19.264  | ug/l   | 96       |
| 70) Styrene                   | 12.418 | 104  | 172303   | 19.285  | ug/l   | 97       |
| 71) Bromoform                 | 12.582 | 173  | 46157    | 19.483  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.700 | 105  | 266725   | 18.206  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.500 | 43   | 103203   | 17.711  | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 97278    | 18.756  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 13.000 | 75   | 87359m   | 19.891  | ug/l   |          |
| 77) Bromobenzene              | 12.982 | 156  | 64079    | 18.599  | ug/l   | 91       |
| 78) n-propylbenzene           | 13.041 | 91   | 317174   | 18.794  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 13.129 | 91   | 193100   | 18.356  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 226162   | 18.938  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 27491    | 18.881  | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 193806   | 19.180  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.441 | 119  | 176575   | 18.042  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 220800   | 19.165  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 255511   | 18.717  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.735 | 119  | 204108   | 18.772  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.735 | 146  | 111626   | 19.152  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 106220   | 18.294  | ug/l   | 98       |
| 89) n-Butylbenzene            | 14.059 | 91   | 154104   | 17.839  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.335 | 117  | 41527    | 18.076  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 106196   | 18.733  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 13620    | 17.027  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 26835    | 15.881  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.506 | 225  | 26669    | 17.788  | ug/l   | 98       |
| 95) Naphthalene               | 15.647 | 128  | 67525    | 13.765  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 30435    | 16.129  | ug/l   | 98       |

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Sample : VN1031MBS02  
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ALS Vial : 8 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/01/2023  
Supervised By :Semsettin Yesilyurt 11/02/2023

Quant Time: Nov 01 01:18:28 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103023W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 31 07:23:24 2023  
Response via : Initial Calibration

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

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

