

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111524\  
 Data File : VN084882.D  
 Acq On : 15 Nov 2024 20:24  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Nov 15 22:31:04 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N103124W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 01 02:38:04 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.745 | 1.574 | 9.8   | 82    | 0.00     |
| 3 M  | Chloromethane               | 2.101 | 1.841 | 12.4  | 81    | 0.00     |
| 4 M  | Vinyl Chloride              | 1.951 | 1.874 | 3.9   | 88    | 0.00     |
| 5 M  | Bromomethane                | 0.990 | 0.901 | 9.0   | 80    | 0.00     |
| 6 M  | Chloroethane                | 1.281 | 1.306 | -2.0  | 94    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.168 | 3.099 | 2.2   | 88    | 0.00     |
| 8 T  | Diethyl Ether               | 1.130 | 1.098 | 2.8   | 91    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.790 | 1.789 | 0.1   | 89    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.748 | 1.644 | 5.9   | 86    | 0.00     |
| 11   | Methyl Iodide               | 2.403 | 1.930 | 19.7  | 74    | -0.01    |
| 12   | Methyl Acetate              | 2.725 | 2.429 | 10.9  | 87    | 0.00     |
| 13 M | Acrolein                    | 0.336 | 0.385 | -14.6 | 106   | 0.00     |
| 14 M | Acrylonitrile               | 0.892 | 0.916 | -2.7  | 98    | 0.00     |
| 15 M | Acetone                     | 0.229 | 0.234 | -2.2  | 96    | 0.00     |
| 16 M | Carbon Disulfide            | 5.144 | 4.697 | 8.7   | 84    | 0.00     |
| 17   | Allyl chloride              | 2.979 | 2.664 | 10.6  | 83    | 0.00     |
| 18 M | Methylene Chloride          | 2.049 | 1.933 | 5.7   | 84    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.833 | 1.702 | 7.1   | 86    | 0.00     |
| 20 T | Diisopropyl ether           | 5.964 | 5.766 | 3.3   | 88    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.587 | 3.438 | 4.2   | 87    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.188 | 2.042 | 6.7   | 88    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.311 | 0.300 | 3.5   | 93    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 5.654 | 5.325 | 5.8   | 88    | 0.00     |
| 25 M | Chloroform                  | 3.675 | 3.517 | 4.3   | 87    | 0.00     |
| 26   | Cyclohexane                 | 2.740 | 2.509 | 8.4   | 86    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.412 | 2.443 | -1.3  | 95    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.452 | 0.424 | 6.2   | 85    | 0.00     |
| 30 M | 2-Butanone                  | 0.208 | 0.223 | -7.2  | 101   | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.552 | 0.511 | 7.4   | 82    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.614 | 0.588 | 4.2   | 86    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.524 | 0.498 | 5.0   | 87    | 0.00     |
| 34 M | Benzene                     | 1.494 | 1.419 | 5.0   | 87    | 0.00     |
| 35   | Methacrylonitrile           | 0.247 | 0.252 | -2.0  | 96    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.497 | 0.492 | 1.0   | 89    | 0.00     |
| 37 M | Trichloroethene             | 0.337 | 0.309 | 8.3   | 83    | 0.00     |
| 38   | Methylcyclohexane           | 0.486 | 0.428 | 11.9  | 84    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.360 | 0.351 | 2.5   | 89    | 0.00     |
| 40   | Dibromomethane              | 0.252 | 0.246 | 2.4   | 88    | 0.00     |
| 41 M | Bromodichloromethane        | 0.539 | 0.506 | 6.1   | 87    | 0.00     |
| 42 M | Vinyl Acetate               | 0.779 | 0.747 | 4.1   | 90    | 0.00     |
| 43   | Ethyl Acetate               | 0.438 | 0.450 | -2.7  | 99    | 0.00     |
| 44   | Isopropyl Acetate           | 0.887 | 0.809 | 8.8   | 90    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0   | 93    | 0.00     |
| 46   | Methyl methacrylate         | 0.356 | 0.303 | 14.9  | 82    | 0.00     |
| 47   | n-amyl Acetate              | 0.662 | 0.620 | 6.3   | 87    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.532 | 0.487 | 8.5   | 87    | 0.00     |

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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 01 02:38:04 2024  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.571 | 0.531 | 7.0   | 86    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.337 | 0.322 | 4.5   | 86    | 0.00     |
| 51   | Ethyl methacrylate          | 0.520 | 0.473 | 9.0   | 88    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.586 | 0.570 | 2.7   | 88    | 0.00     |
| 53 M | Dibromochloromethane        | 0.395 | 0.373 | 5.6   | 88    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.341 | 0.335 | 1.8   | 88    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.255 | 0.247 | 3.1   | 87    | 0.00     |
| 56 M | Bromoform                   | 0.265 | 0.254 | 4.2   | 91    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.473 | 0.507 | -7.2  | 100   | 0.00     |
| 59 M | 2-Hexanone                  | 0.347 | 0.367 | -5.8  | 100   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.517 | 0.498 | 3.7   | 95    | 0.00     |
| 61 M | Tetrachloroethene           | 0.314 | 0.302 | 3.8   | 88    | 0.00     |
| 62 M | Toluene                     | 1.709 | 1.637 | 4.2   | 89    | 0.00     |
| 63 S | Toluene-d8                  | 1.420 | 1.426 | -0.4  | 96    | 0.00     |
| 64 M | Chlorobenzene               | 1.032 | 0.964 | 6.6   | 87    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.379 | 0.352 | 7.1   | 85    | 0.00     |
| 66 M | Ethyl Benzene               | 1.796 | 1.619 | 9.9   | 86    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.687 | 0.653 | 4.9   | 89    | 0.00     |
| 68 M | o-Xylene                    | 0.663 | 0.609 | 8.1   | 85    | 0.00     |
| 69 M | Styrene                     | 1.112 | 1.034 | 7.0   | 88    | 0.00     |
| 70   | Isopropylbenzene            | 1.647 | 1.528 | 7.2   | 88    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.534 | 0.551 | -3.2  | 94    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.456 | 0.497 | -9.0  | 91    | 0.00     |
| 73   | Bromobenzene                | 0.425 | 0.383 | 9.9   | 84    | 0.00     |
| 74   | n-propylbenzene             | 1.926 | 1.756 | 8.8   | 87    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.255 | 1.181 | 5.9   | 89    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.408 | 1.316 | 6.5   | 88    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.187 | 0.167 | 10.7  | 84    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.268 | 1.141 | 10.0  | 85    | 0.00     |
| 79   | tert-butylbenzene           | 1.164 | 1.098 | 5.7   | 92    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.420 | 1.307 | 8.0   | 87    | 0.00     |
| 81   | sec-Butylbenzene            | 1.604 | 1.463 | 8.8   | 88    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.348 | 1.182 | 12.3  | 85    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.786 | 0.704 | 10.4  | 84    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.776 | 0.664 | 14.4  | 82    | 0.00     |
| 85   | n-Butylbenzene              | 1.132 | 0.827 | 26.9# | 75    | 0.00     |
| 86 T | Hexachloroethane            | 0.276 | 0.232 | 15.9  | 79    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.774 | 0.661 | 14.6  | 78    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.104 | -1.0  | 94    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.377 | 0.316 | 16.2  | 80    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.165 | 0.150 | 9.1   | 86    | 0.00     |
| 91 M | Naphthalene                 | 1.204 | 0.994 | 17.4  | 85    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.377 | 0.316 | 16.2  | 80    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0