

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032224\  
 Data File : VX040781.D  
 Acq On : 22 Mar 2024 15:50  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 23 05:06:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 05 13:21:29 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   | 92    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 2.035 | 1.874 | 7.9   | 96    | 0.00     |
| 3 M  | Chloromethane               | 2.085 | 1.689 | 19.0  | 82    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.253 | 1.815 | 19.4  | 83    | 0.00     |
| 5 M  | Bromomethane                | 1.376 | 1.257 | 8.6   | 79    | 0.02     |
| 6 M  | Chloroethane                | 1.324 | 1.169 | 11.7  | 98    | 0.02     |
| 7 M  | Trichlorofluoromethane      | 3.430 | 3.269 | 4.7   | 104   | 0.02     |
| 8 T  | Diethyl Ether               | 1.165 | 1.120 | 3.9   | 104   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.879 | 1.839 | 2.1   | 101   | 0.01     |
| 10 M | 1,1-Dichloroethene          | 1.789 | 1.652 | 7.7   | 97    | 0.01     |
| 11   | Methyl Iodide               | 2.164 | 2.433 | -12.4 | 121   | 0.00     |
| 12   | Methyl Acetate              | 2.947 | 2.980 | -1.1  | 105   | 0.00     |
| 13 M | Acrolein                    | 0.556 | 0.467 | 16.0  | 89    | 0.00     |
| 14 M | Acrylonitrile               | 1.160 | 1.072 | 7.6   | 95    | 0.00     |
| 15 M | Acetone                     | 0.332 | 0.245 | 26.2# | 71    | 0.00     |
| 16 M | Carbon Disulfide            | 4.917 | 4.203 | 14.5  | 91    | 0.01     |
| 17   | Allyl chloride              | 3.301 | 3.088 | 6.5   | 97    | 0.00     |
| 18 M | Methylene Chloride          | 2.043 | 2.031 | 0.6   | 103   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.953 | 1.818 | 6.9   | 96    | 0.00     |
| 20 T | Diisopropyl ether           | 6.603 | 6.433 | 2.6   | 102   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.799 | 3.722 | 2.0   | 101   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.268 | 2.188 | 3.5   | 99    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.548 | 0.388 | 29.2# | 76    | -0.05    |
| 24 M | Methyl tert-Butyl Ether     | 6.602 | 6.227 | 5.7   | 99    | 0.00     |
| 25 M | Chloroform                  | 4.158 | 4.086 | 1.7   | 103   | 0.00     |
| 26   | Cyclohexane                 | 3.066 | 2.785 | 9.2   | 98    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.996 | 2.812 | 6.1   | 93    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.519 | 0.497 | 4.2   | 103   | 0.00     |
| 30 M | 2-Butanone                  | 0.317 | 0.267 | 15.8  | 86    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.560 | 0.546 | 2.5   | 101   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.654 | 0.617 | 5.7   | 100   | 0.01     |
| 33 M | Carbon Tetrachloride        | 0.551 | 0.534 | 3.1   | 105   | 0.00     |
| 34 M | Benzene                     | 1.402 | 1.375 | 1.9   | 102   | 0.00     |
| 35   | Methacrylonitrile           | 0.325 | 0.307 | 5.5   | 97    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.648 | 0.617 | 4.8   | 98    | 0.00     |
| 37 M | Trichloroethene             | 0.377 | 0.354 | 6.1   | 99    | 0.00     |
| 38   | Methylcyclohexane           | 0.559 | 0.541 | 3.2   | 101   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.357 | 0.352 | 1.4   | 101   | 0.00     |
| 40   | Dibromomethane              | 0.280 | 0.282 | -0.7  | 100   | 0.00     |
| 41 M | Bromodichloromethane        | 0.558 | 0.558 | 0.0   | 103   | 0.00     |
| 42 M | Vinyl Acetate               | 1.091 | 1.038 | 4.9   | 100   | 0.00     |
| 43   | Ethyl Acetate               | 0.597 | 0.563 | 5.7   | 94    | 0.00     |
| 44   | Isopropyl Acetate           | 0.953 | 0.891 | 6.5   | 99    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.010 | 0.007 | 30.0# | 71    | 0.00     |
| 46   | Methyl methacrylate         | 0.473 | 0.447 | 5.5   | 96    | 0.00     |
| 47   | n-amyl Acetate              | 0.821 | 0.770 | 6.2   | 109   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.590 | 0.566 | 4.1   | 105   | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 23 05:06:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 05 13:21:29 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     | 0.601 | 0.595 | 1.0  | 105   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.372 | 0.361 | 3.0  | 100   | 0.00     |
| 51   | Ethyl methacrylate          | 0.586 | 0.562 | 4.1  | 99    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.636 | 0.606 | 4.7  | 97    | 0.00     |
| 53 M | Dibromochloromethane        | 0.425 | 0.383 | 9.9  | 95    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.412 | 0.380 | 7.8  | 96    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.299 | 0.323 | -8.0 | 107   | 0.00     |
| 56 M | Bromoform                   | 0.301 | 0.263 | 12.6 | 98    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.668 | 0.637 | 4.6  | 93    | 0.00     |
| 59 M | 2-Hexanone                  | 0.540 | 0.479 | 11.3 | 89    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.515 | 0.525 | -1.9 | 107   | 0.00     |
| 61 M | Tetrachloroethene           | 0.356 | 0.330 | 7.3  | 92    | 0.00     |
| 62 M | Toluene                     | 1.652 | 1.657 | -0.3 | 99    | 0.00     |
| 63 S | Toluene-d8                  | 1.326 | 1.378 | -3.9 | 96    | 0.00     |
| 64 M | Chlorobenzene               | 1.010 | 1.023 | -1.3 | 111   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.372 | 3.4  | 108   | 0.00     |
| 66 M | Ethyl Benzene               | 1.905 | 1.896 | 0.5  | 111   | 0.00     |
| 67 M | m/p-Xylenes                 | 0.704 | 0.671 | 4.7  | 106   | 0.00     |
| 68 M | o-Xylene                    | 0.677 | 0.652 | 3.7  | 105   | 0.00     |
| 69 M | Styrene                     | 1.138 | 1.103 | 3.1  | 105   | 0.00     |
| 70   | Isopropylbenzene            | 1.830 | 1.802 | 1.5  | 109   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.642 | 0.639 | 0.5  | 108   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.577 | 0.544 | 5.7  | 108   | 0.00     |
| 73   | Bromobenzene                | 0.433 | 0.431 | 0.5  | 110   | 0.00     |
| 74   | n-propylbenzene             | 2.260 | 2.286 | -1.2 | 114   | 0.00     |
| 75   | 2-Chlorotoluene             | 1.341 | 1.309 | 2.4  | 110   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.611 | 1.582 | 1.8  | 111   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.179 | 0.176 | 1.7  | 109   | 0.00     |
| 78   | 4-Chlorotoluene             | 1.600 | 1.569 | 1.9  | 115   | 0.00     |
| 79   | tert-butylbenzene           | 1.504 | 1.468 | 2.4  | 114   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.587 | 1.527 | 3.8  | 112   | 0.00     |
| 81   | sec-Butylbenzene            | 1.985 | 1.887 | 4.9  | 110   | 0.00     |
| 82   | p-Isopropyltoluene          | 1.625 | 1.614 | 0.7  | 115   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.843 | 0.824 | 2.3  | 111   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.862 | 0.845 | 2.0  | 111   | 0.00     |
| 85   | n-Butylbenzene              | 1.581 | 1.551 | 1.9  | 114   | 0.00     |
| 86 T | Hexachloroethane            | 0.284 | 0.269 | 5.3  | 115   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.819 | 0.804 | 1.8  | 110   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.172 | 0.139 | 19.2 | 91    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.552 | 0.551 | 0.2  | 113   | 0.00     |
| 90   | Hexachlorobutadiene         | 0.223 | 0.210 | 5.8  | 107   | 0.00     |
| 91 M | Naphthalene                 | 1.799 | 1.852 | -2.9 | 117   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.544 | 0.540 | 0.7  | 112   | 0.00     |

(#) = Out of Range

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