

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031521\  
 Data File : VN066204.D  
 Acq On : 15 Mar 2021 17:35  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 16 02:11:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 12 13:00:23 2021  
 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   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 120   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.537 | 0.483 | 10.1  | 105   | 0.00     |
| 3 P   | Chloromethane               | 0.971 | 0.785 | 19.2  | 111   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.738 | 0.734 | 0.5#  | 115   | 0.00     |
| 5 T   | Bromomethane                | 0.430 | 0.449 | -4.4  | 130   | -0.01    |
| 6 T   | Chloroethane                | 0.428 | 0.450 | -5.1  | 124   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.865 | 0.908 | -5.0  | 119   | 0.00     |
| 8 T   | Diethyl Ether               | 0.343 | 0.377 | -9.9  | 133   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.445 | 0.475 | -6.7  | 121   | 0.00     |
| 10 T  | Methyl Iodide               | 0.590 | 0.669 | -13.4 | 127   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.124 | 0.127 | -2.4  | 120   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.464 | 0.494 | -6.5# | 128   | 0.00     |
| 13 T  | Acrolein                    | 0.149 | 0.128 | 14.1  | 107   | 0.00     |
| 14 T  | Allyl chloride              | 1.247 | 1.321 | -5.9  | 118   | 0.00     |
| 15 T  | Acrylonitrile               | 0.365 | 0.390 | -6.8  | 118   | 0.00     |
| 16 T  | Acetone                     | 0.413 | 0.328 | 20.6  | 110   | -0.01    |
| 17 T  | Carbon Disulfide            | 1.400 | 1.399 | 0.1   | 118   | 0.00     |
| 18 T  | Methyl Acetate              | 0.995 | 1.098 | -10.4 | 120   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.819 | 1.987 | -9.2  | 121   | 0.00     |
| 20 T  | Methylene Chloride          | 0.598 | 0.612 | -2.3  | 124   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.527 | 0.558 | -5.9  | 125   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.440 | 2.594 | -6.3  | 119   | 0.00     |
| 23 T  | Vinyl Acetate               | 2.025 | 2.138 | -5.6  | 114   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.191 | 1.246 | -4.6  | 121   | 0.00     |
| 25 T  | 2-Butanone                  | 0.608 | 0.562 | 7.6   | 109   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.041 | 0.996 | 4.3   | 116   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.642 | 0.673 | -4.8  | 123   | 0.00     |
| 28 T  | Bromochloromethane          | 0.668 | 0.654 | 2.1   | 116   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.405 | 0.393 | 3.0   | 110   | 0.00     |
| 30 C  | Chloroform                  | 1.140 | 1.124 | 1.4#  | 115   | 0.00     |
| 31 T  | Cyclohexane                 | 1.184 | 1.128 | 4.7   | 117   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.972 | 0.946 | 2.7   | 115   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.807 | 0.730 | 9.5   | 113   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 124   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.337 | 0.327 | 3.0   | 124   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.528 | 0.529 | -0.2  | 119   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.737 | 0.705 | 4.3   | 109   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.493 | 0.472 | 4.3   | 114   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.613 | 0.586 | 4.4   | 116   | 0.00     |
| 40 TM | Benzene                     | 1.598 | 1.600 | -0.1  | 117   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.392 | 0.361 | 7.9   | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.614 | 0.569 | 7.3   | 111   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.243 | 1.173 | 5.6   | 109   | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.385 | 1.3   | 119   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.494 | 0.468 | 5.3#  | 113   | 0.00     |
| 46 T  | Dibromomethane              | 0.273 | 0.260 | 4.8   | 115   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.591 | 0.550 | 6.9   | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.587 | 0.554 | 5.6   | 108   | 0.00     |

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 ALS Vial : 8 Sample Multiplier: 1

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 LabSampleId :  
 VSTDCCC050

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 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  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0     | 132   | 0.00     |
| 50 S  | Toluene-d8                  | 1.366 | 1.275 | 6.7     | 113   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.752 | 0.725 | 3.6     | 101   | 0.00     |
| 52 CM | Toluene                     | 0.963 | 0.946 | 1.8#    | 109   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.668 | 0.654 | 2.1     | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.724 | 0.708 | 2.2     | 110   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.395 | 0.385 | 2.5     | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.624 | 0.655 | -5.0    | 114   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.718 | 0.693 | 3.5     | 110   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.190 | 0.174 | 8.4     | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.541 | 0.529 | 2.2     | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.409 | 0.395 | 3.4     | 110   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.399 | 0.387 | 3.0     | 112   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.503 | 0.513 | -2.0    | 129   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 122   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.433 | 0.401 | 7.4     | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 1.025 | 1.034 | -0.9    | 118   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.396 | 0.380 | 4.0     | 113   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.861 | 1.953 | -4.9#   | 117   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.690 | 0.720 | -4.3    | 119   | 0.00     |
| 69 T  | o-Xylene                    | 0.670 | 0.706 | -5.4    | 123   | 0.00     |
| 70 T  | Styrene                     | 1.084 | 1.199 | -10.6   | 124   | 0.00     |
| 71 P  | Bromoform                   | 0.303 | 0.312 | -3.0    | 117   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 127   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.772 | 3.853 | -2.1    | 122   | 0.00     |
| 74 T  | N-amyl acetate              | 1.810 | 1.797 | 0.7     | 113   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.365 | 1.296 | 5.1     | 121   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.178 | 1.293 | -9.8    | 143   | 0.00     |
| 77 T  | Bromobenzene                | 0.945 | 2.183 | -131.0# | 288#  | 0.00     |
| 78 T  | n-propylbenzene             | 4.353 | 4.605 | -5.8    | 124   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.728 | 2.721 | 0.3     | 124   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.147 | 3.314 | -5.3    | 126   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.447 | 0.486 | -8.7    | 132   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.692 | 2.767 | -2.8    | 123   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.653 | 2.787 | -5.1    | 126   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.117 | 3.319 | -6.5    | 125   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.541 | 3.821 | -7.9    | 128   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.122 | 3.399 | -8.9    | 128   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.635 | 1.668 | -2.0    | 126   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.678 | 1.668 | 0.6     | 129   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.784 | 3.119 | -12.0   | 134   | 0.00     |
| 90 T  | Hexachloroethane            | 0.501 | 0.490 | 2.2     | 122   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.610 | 1.634 | -1.5    | 121   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.282 | 0.261 | 7.4     | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.919 | 1.060 | -15.3   | 134   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.554 | 0.504 | 9.0     | 116   | 0.00     |
| 95 T  | Naphthalene                 | 2.685 | 3.308 | -23.2   | 141   | 0.00     |

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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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.944 | 1.077 | -14.1 | 134   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6