

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN081220\  
 Data File : VN062899.D  
 Acq On : 13 Aug 2020 9:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 13 10:47:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.716 | 0.653 | 8.8   | 78    | 0.00     |
| 3 P   | Chloromethane               | 0.676 | 0.558 | 17.5  | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.634 | 0.567 | 10.6# | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.419 | 0.398 | 5.0   | 93    | -0.02    |
| 6 T   | Chloroethane                | 0.417 | 0.402 | 3.6   | 88    | -0.07    |
| 7 T   | Trichlorofluoromethane      | 1.130 | 1.223 | -8.2  | 101   | -0.06    |
| 8 T   | Diethyl Ether               | 0.323 | 0.348 | -7.7  | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.502 | 0.490 | 2.4   | 97    | -0.04    |
| 10 T  | Methyl Iodide               | 0.548 | 0.544 | 0.7   | 86    | -0.03    |
| 11 T  | Tert butyl alcohol          | 0.136 | 0.090 | 33.8# | 59    | 0.07     |
| 12 CM | 1,1-Dichloroethene          | 0.476 | 0.454 | 4.6#  | 95    | -0.03    |
| 13 T  | Acrolein                    | 0.082 | 0.043 | 47.6# | 50#   | 0.00     |
| 14 T  | Allyl chloride              | 0.875 | 0.660 | 24.6  | 73    | -0.02    |
| 15 T  | Acrylonitrile               | 0.314 | 0.268 | 14.6  | 75    | 0.00     |
| 16 T  | Acetone                     | 0.299 | 0.259 | 13.4  | 82    | 0.01     |
| 17 T  | Carbon Disulfide            | 1.404 | 1.073 | 23.6  | 80    | -0.03    |
| 18 T  | Methyl Acetate              | 0.794 | 0.822 | -3.5  | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.937 | 1.872 | 3.4   | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.609 | 0.547 | 10.2  | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.500 | 0.449 | 10.2  | 86    | -0.02    |
| 22 T  | Diisopropyl ether           | 1.864 | 1.740 | 6.7   | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.417 | 1.054 | 25.6# | 69    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.092 | 0.988 | 9.5   | 86    | -0.02    |
| 25 T  | 2-Butanone                  | 0.423 | 0.311 | 26.5# | 65    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.007 | 0.375 | 62.8# | 36#   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.600 | 0.556 | 7.3   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.527 | 0.455 | 13.7  | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.275 | 0.218 | 20.7  | 69    | 0.00     |
| 30 C  | Chloroform                  | 1.161 | 1.086 | 6.5#  | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 1.002 | 0.869 | 13.3  | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.038 | 0.976 | 6.0   | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.827 | 0.848 | -2.5  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.342 | 0.345 | -0.9  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.487 | 0.420 | 13.8  | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.509 | 0.357 | 29.9# | 66    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.576 | 0.512 | 11.1  | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.586 | 0.512 | 12.6  | 83    | 0.00     |
| 40 TM | Benzene                     | 1.453 | 1.273 | 12.4  | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.229 | 0.194 | 15.3  | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.618 | 0.567 | 8.3   | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.848 | 0.637 | 24.9  | 71    | 0.00     |
| 44 TM | Trichloroethene             | 0.354 | 0.313 | 11.6  | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.393 | 0.352 | 10.4# | 85    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.258 | 0.232 | 10.1  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.579 | 0.539 | 6.9   | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.417 | 0.335 | 19.7  | 75    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.006 | 25.0  | 68    | 0.01     |
| 50 S  | Toluene-d8                  | 1.335 | 1.347 | -0.9  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.549 | 0.405 | 26.2# | 67    | 0.00     |
| 52 CM | Toluene                     | 0.897 | 0.826 | 7.9#  | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.636 | 0.497 | 21.9  | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.639 | 0.517 | 19.1  | 76    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.383 | 0.341 | 11.0  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.577 | 0.499 | 13.5  | 76    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.651 | 0.575 | 11.7  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.163 | 0.140 | 14.1  | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.409 | 0.292 | 28.6# | 63    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.437 | 0.403 | 7.8   | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.378 | 0.340 | 10.1  | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.505 | 0.549 | -8.7  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.323 | 0.299 | 7.4   | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 1.045 | 0.899 | 14.0  | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.420 | 0.374 | 11.0  | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.870 | 1.673 | 10.5# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.679 | 0.620 | 8.7   | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.636 | 0.592 | 6.9   | 86    | 0.00     |
| 70 T  | Styrene                     | 1.118 | 1.029 | 8.0   | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.343 | 0.281 | 18.1  | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.765 | 3.014 | 19.9  | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 1.526 | 0.956 | 37.4# | 62    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.325 | 0.889 | 32.9# | 75    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.348 | 0.839 | 37.8# | 69    | 0.00     |
| 77 T  | Bromobenzene                | 0.935 | 0.712 | 23.9  | 84    | 0.00     |
| 78 T  | n-propylbenzene             | 4.420 | 3.398 | 23.1  | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.771 | 2.110 | 23.9  | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.266 | 2.636 | 19.3  | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.442 | 0.234 | 47.1# | 54    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.856 | 2.179 | 23.7  | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.764 | 2.220 | 19.7  | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.125 | 2.512 | 19.6  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.629 | 2.858 | 21.2  | 81    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.222 | 2.536 | 21.3  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.671 | 1.284 | 23.2  | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.676 | 1.295 | 22.7  | 84    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.725 | 1.944 | 28.7# | 74    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.694 | 0.513 | 26.1# | 82    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.567 | 1.295 | 17.4  | 87    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.285 | 0.205 | 28.1# | 74    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.734 | 0.647 | 11.9  | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.545 | 0.387 | 29.0# | 80    | 0.00     |
| 95 T | Naphthalene                 | 1.932 | 1.648 | 14.7  | 85    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.714 | 0.656 | 8.1   | 90    | 0.00     |

(#) = Out of Range

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