

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011121\  
 Data File : VN065483.D  
 Acq On : 11 Jan 2021 21:26  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 12 00:13:03 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 22 15:42:18 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.463 | 0.386 | 16.6  | 71    | 0.00     |
| 3 P   | Chloromethane               | 0.527 | 0.472 | 10.4  | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.548 | 0.519 | 5.3#  | 82    | 0.00     |
| 5 T   | Bromomethane                | 0.389 | 0.294 | 24.4  | 67    | -0.02    |
| 6 T   | Chloroethane                | 0.354 | 0.352 | 0.6   | 86    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.820 | 0.741 | 9.6   | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 0.323 | 0.312 | 3.4   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.460 | 0.442 | 3.9   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.694 | 0.713 | -2.7  | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.092 | 0.057 | 38.0# | 54    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.491 | 0.441 | 10.2# | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.065 | 0.046 | 29.2# | 66    | 0.00     |
| 14 T  | Allyl chloride              | 0.810 | 0.664 | 18.0  | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 0.223 | 0.211 | 5.4   | 82    | 0.00     |
| 16 T  | Acetone                     | 0.260 | 0.164 | 36.9# | 61    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.257 | 0.964 | 23.3  | 66    | 0.00     |
| 18 T  | Methyl Acetate              | 0.507 | 0.504 | 0.6   | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.560 | 1.436 | 7.9   | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 0.551 | 0.493 | 10.5  | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.482 | 0.443 | 8.1   | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.611 | 1.478 | 8.3   | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.358 | 1.170 | 13.8  | 75    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.884 | 0.847 | 4.2   | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 0.317 | 0.260 | 18.0  | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.844 | 0.629 | 25.5# | 68    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.561 | 0.553 | 1.4   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.379 | 0.343 | 9.5   | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.205 | 0.177 | 13.7  | 77    | 0.00     |
| 30 C  | Chloroform                  | 0.910 | 0.875 | 3.8#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 0.833 | 0.690 | 17.2  | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.824 | 0.739 | 10.3  | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.564 | 0.510 | 9.6   | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.302 | 0.312 | -3.3  | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.455 | 0.430 | 5.5   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.451 | 0.385 | 14.6  | 74    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.477 | 0.435 | 8.8   | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.546 | 0.481 | 11.9  | 76    | 0.00     |
| 40 TM | Benzene                     | 1.352 | 1.336 | 1.2   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.234 | 0.195 | 16.7  | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.500 | 0.457 | 8.6   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.777 | 0.665 | 14.4  | 74    | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.402 | -3.1  | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.352 | 0.362 | -2.8# | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.239 | 0.238 | 0.4   | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.503 | 0.479 | 4.8   | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.377 | 0.335 | 11.1  | 78    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
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|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.004 | 33.3# | 56    | 0.00     |
| 50 S  | Toluene-d8                  | 1.131 | 1.172 | -3.6  | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.437 | 0.402 | 8.0   | 79    | 0.00     |
| 52 CM | Toluene                     | 0.852 | 0.879 | -3.2# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.567 | 0.528 | 6.9   | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.603 | 0.572 | 5.1   | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.337 | 0.358 | -6.2  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.522 | 0.517 | 1.0   | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.557 | 0.591 | -6.1  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.227 | 0.206 | 9.3   | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.321 | 0.292 | 9.0   | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.402 | 0.410 | -2.0  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.362 | 0.375 | -3.6  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.424 | 0.448 | -5.7  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.486 | 0.518 | -6.6  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 1.018 | 1.048 | -2.9  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.396 | 0.400 | -1.0  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.834 | 1.764 | 3.8#  | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.691 | 0.697 | -0.9  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.671 | 0.681 | -1.5  | 94    | 0.00     |
| 70 T  | Styrene                     | 1.119 | 1.156 | -3.3  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.341 | 0.326 | 4.4   | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.808 | 3.367 | 11.6  | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 1.516 | 1.228 | 19.0  | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.027 | 0.980 | 4.6   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.020 | 0.940 | 7.8   | 99    | 0.00     |
| 77 T  | Bromobenzene                | 0.995 | 0.980 | 1.5   | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 4.299 | 3.736 | 13.1  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.532 | 2.273 | 10.2  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.247 | 2.876 | 11.4  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.405 | 0.313 | 22.7  | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.607 | 2.354 | 9.7   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.767 | 2.505 | 9.5   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.162 | 2.883 | 8.8   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.671 | 3.191 | 13.1  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.365 | 3.017 | 10.3  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.664 | 1.666 | -0.1  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.671 | 1.644 | 1.6   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.876 | 2.378 | 17.3  | 83    | 0.00     |
| 90 T  | Hexachloroethane            | 0.579 | 0.491 | 15.2  | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.598 | 1.649 | -3.2  | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.212 | 0.177 | 16.5  | 81    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.806 | 0.876 | -8.7  | 93    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.631 | 0.535 | 15.2  | 90    | 0.00     |
| 95 T  | Naphthalene                 | 2.105 | 2.165 | -2.9  | 90    | 0.00     |

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

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|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.764 | 0.825 | -8.0 | 97    | 0.02     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6