

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN022120\  
 Data File : VN060179.D  
 Acq On : 21 Feb 2020 10:20  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 21 22:33:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N021220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 12 14:12:21 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.500 | 0.494 | 1.2   | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.595 | 0.569 | 4.4   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.678 | 0.657 | 3.1#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.416 | 0.414 | 0.5   | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.343 | 0.345 | -0.6  | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.874 | 0.866 | 0.9   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.291 | 0.307 | -5.5  | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.485 | 0.486 | -0.2  | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.601 | 0.674 | -12.1 | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.091 | 0.092 | -1.1  | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.473 | 0.473 | 0.0   | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.090 | 0.102 | -13.3 | 108   | 0.00     |
| 14 T  | Allyl chloride              | 0.696 | 0.715 | -2.7  | 104   | 0.00     |
| 15 T  | Acrylonitrile               | 0.222 | 0.242 | -9.0  | 99    | 0.00     |
| 16 T  | Acetone                     | 0.265 | 0.258 | 2.6   | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.425 | 1.338 | 6.1   | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 0.499 | 0.557 | -11.6 | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.590 | 1.633 | -2.7  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.529 | 0.533 | -0.8  | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.515 | 0.526 | -2.1  | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.525 | 1.631 | -7.0  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.281 | 1.383 | -8.0  | 100   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.924 | 0.955 | -3.4  | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.334 | 0.353 | -5.7  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.877 | 0.899 | -2.5  | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.603 | 0.616 | -2.2  | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.363 | 0.381 | -5.0  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.205 | 0.215 | -4.9  | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.968 | 1.005 | -3.8# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 0.861 | 0.849 | 1.4   | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.884 | 0.907 | -2.6  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.608 | 0.612 | -0.7  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.307 | 0.302 | 1.6   | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.463 | 0.477 | -3.0  | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.419 | 0.438 | -4.5  | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.503 | 0.507 | -0.8  | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.575 | 0.582 | -1.2  | 98    | 0.00     |
| 40 TM | Benzene                     | 1.374 | 1.393 | -1.4  | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.176 | 0.186 | -5.7  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.481 | 0.508 | -5.6  | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.715 | 0.761 | -6.4  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.380 | 0.387 | -1.8  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.340 | 0.368 | -8.2# | 102   | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.240 | 0.251 | -4.6  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.489 | 0.511 | -4.5  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.321 | 0.337 | -5.0  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.005 | 0.006 | -20.0 | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.210 | 1.182 | 2.3   | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.414 | 0.448 | -8.2  | 99    | 0.00     |
| 52 CM | Toluene                     | 0.881 | 0.916 | -4.0# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.552 | 0.592 | -7.2  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.581 | 0.611 | -5.2  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.344 | 0.361 | -4.9  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.486 | 0.532 | -9.5  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.567 | 0.588 | -3.7  | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.226 | 0.260 | -15.0 | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.320 | 0.342 | -6.9  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.394 | 0.409 | -3.8  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.360 | 0.377 | -4.7  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.445 | 0.451 | -1.3  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.380 | 0.385 | -1.3  | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.019 | 1.044 | -2.5  | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.400 | -3.9  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.837 | 1.907 | -3.8# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.690 | 0.721 | -4.5  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.664 | 0.687 | -3.5  | 99    | 0.00     |
| 70 T  | Styrene                     | 1.071 | 1.153 | -7.7  | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.310 | 0.330 | -6.5  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.734 | 3.706 | 0.7   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 1.346 | 1.438 | -6.8  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.075 | 1.077 | -0.2  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.957 | 0.944 | 1.4   | 94    | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 0.924 | 0.3   | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 4.254 | 4.299 | -1.1  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.500 | 2.485 | 0.6   | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.104 | 3.138 | -1.1  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.391 | 0.409 | -4.6  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.565 | 2.628 | -2.5  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.746 | 2.707 | 1.4   | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.064 | 3.129 | -2.1  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.637 | 3.667 | -0.8  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.295 | 3.360 | -2.0  | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.640 | 1.689 | -3.0  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.640 | 1.670 | -1.8  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.898 | 3.036 | -4.8  | 102   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.616 | 0.607 | 1.5  | 97    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.605 | 1.614 | -0.6 | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.249 | 0.224 | 10.0 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.943 | 1.007 | -6.8 | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.552 | 0.544 | 1.4  | 100   | 0.00     |
| 95 T | Naphthalene                 | 2.548 | 2.553 | -0.2 | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.939 | 0.954 | -1.6 | 96    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5