

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN112119\  
 Data File : VN059328.D  
 Acq On : 21 Nov 2019 12:03  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 22 06:13:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112019W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 21 08:44:45 2019  
 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.640 | 0.565 | 11.7  | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.784 | 0.668 | 14.8  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.807 | 0.721 | 10.7# | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.448 | 0.393 | 12.3  | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.441 | 0.367 | 16.8  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.869 | 0.723 | 16.8  | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.355 | 0.321 | 9.6   | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.532 | 0.468 | 12.0  | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.661 | 0.614 | 7.1   | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.100 | 16.7  | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.540 | 0.471 | 12.8# | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.110 | 0.093 | 15.5  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 1.008 | 0.881 | 12.6  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.318 | 0.273 | 14.2  | 91    | 0.00     |
| 16 T  | Acetone                     | 0.269 | 0.279 | -3.7  | 112   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.820 | 1.485 | 18.4  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.893 | 0.761 | 14.8  | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.743 | 1.572 | 9.8   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.607 | 0.520 | 14.3  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.572 | 0.508 | 11.2  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.898 | 1.683 | 11.3  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.493 | 1.351 | 9.5   | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.068 | 0.957 | 10.4  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.418 | 0.379 | 9.3   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.925 | 0.803 | 13.2  | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.645 | 0.573 | 11.2  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.367 | 0.385 | -4.9  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.289 | 0.242 | 16.3  | 87    | 0.00     |
| 30 C  | Chloroform                  | 1.109 | 0.915 | 17.5# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.056 | 0.904 | 14.4  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.891 | 0.775 | 13.0  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.600 | 0.582 | 3.0   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.300 | 0.302 | -0.7  | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.516 | 0.467 | 9.5   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.555 | 0.475 | 14.4  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.494 | 0.438 | 11.3  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.622 | 0.569 | 8.5   | 94    | 0.00     |
| 40 TM | Benzene                     | 1.515 | 1.368 | 9.7   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.246 | 0.215 | 12.6  | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.501 | 0.450 | 10.2  | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.848 | 0.748 | 11.8  | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.347 | 9.6   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.404 | 0.366 | 9.4#  | 95    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.248 | 0.224 | 9.7  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.496 | 0.456 | 8.1  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.386 | 0.339 | 12.2 | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0  | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.193 | 1.191 | 0.2  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.496 | 0.452 | 8.9  | 88    | 0.00     |
| 52 CM | Toluene                     | 0.911 | 0.828 | 9.1# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.577 | 0.524 | 9.2  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.626 | 0.581 | 7.2  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.354 | 0.321 | 9.3  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.531 | 0.502 | 5.5  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.617 | 0.557 | 9.7  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.181 | 0.163 | 9.9  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.363 | 0.340 | 6.3  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.373 | 0.346 | 7.2  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.369 | 0.331 | 10.3 | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.417 | 0.424 | -1.7 | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.387 | 0.338 | 12.7 | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 1.075 | 0.962 | 10.5 | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.391 | 0.356 | 9.0  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.920 | 1.761 | 8.3# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.713 | 0.656 | 8.0  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.683 | 0.623 | 8.8  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.077 | 1.016 | 5.7  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.296 | 0.277 | 6.4  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.096 | 3.621 | 11.6 | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.646 | 1.431 | 13.1 | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.355 | 1.131 | 16.5 | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.155 | 1.006 | 12.9 | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.993 | 0.858 | 13.6 | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.640 | 4.181 | 9.9  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.848 | 2.470 | 13.3 | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.443 | 3.055 | 11.3 | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.462 | 0.413 | 10.6 | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.947 | 2.547 | 13.6 | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.908 | 2.600 | 10.6 | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.373 | 3.036 | 10.0 | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.908 | 3.497 | 10.5 | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.478 | 3.174 | 8.7  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.769 | 1.535 | 13.2 | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.750 | 1.513 | 13.5 | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.051 | 2.795 | 8.4  | 98    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.659 | 0.564 | 14.4 | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.712 | 1.484 | 13.3 | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.288 | 0.231 | 19.8 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.083 | 0.910 | 16.0 | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.617 | 0.517 | 16.2 | 98    | 0.00     |
| 95 T | Naphthalene                 | 3.133 | 2.456 | 21.6 | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.166 | 0.918 | 21.3 | 100   | 0.00     |

(#) = Out of Range

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