

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX080320\  
 Data File : VX017756.D  
 Acq On : 03 Aug 2020 19:34  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 04 07:58:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.523 | 0.406 | 22.4# | 95    | 0.00     |
| 3 P   | Chloromethane               | 0.663 | 0.495 | 25.3# | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.629 | 0.495 | 21.3# | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.365 | 0.284 | 22.2# | 86    | 0.00     |
| 6 T   | Chloroethane                | 0.380 | 0.305 | 19.7  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.990 | 0.818 | 17.4  | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.358 | 0.292 | 18.4  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.543 | 0.426 | 21.5# | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 0.695 | 0.536 | 22.9# | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.135 | 0.113 | 16.3  | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.516 | 0.419 | 18.8# | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.092 | 2.1   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 0.943 | 0.817 | 13.4  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.292 | 0.272 | 6.8   | 95    | 0.00     |
| 16 T  | Acetone                     | 0.283 | 0.246 | 13.1  | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.570 | 1.110 | 29.3# | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 0.666 | 0.660 | 0.9   | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.788 | 1.564 | 12.5  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.622 | 0.489 | 21.4# | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.553 | 0.463 | 16.3  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.724 | 1.580 | 8.4   | 104   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.537 | 1.395 | 9.2   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.993 | 0.875 | 11.9  | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.402 | 0.385 | 4.2   | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.889 | 0.734 | 17.4  | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.601 | 0.532 | 11.5  | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.450 | 0.382 | 15.1  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.249 | 0.241 | 3.2   | 100   | 0.00     |
| 30 C  | Chloroform                  | 1.015 | 0.925 | 8.9#  | 105   | -0.01    |
| 31 T  | Cyclohexane                 | 0.792 | 0.688 | 13.1  | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.957 | 0.859 | 10.2  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.642 | 0.560 | 12.8  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 113   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.334 | 0.283 | 15.3  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.480 | 0.417 | 13.1  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.525 | 0.472 | 10.1  | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.582 | 0.509 | 12.5  | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.560 | 0.434 | 22.5# | 95    | 0.00     |
| 40 TM | Benzene                     | 1.375 | 1.212 | 11.9  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.301 | 0.269 | 10.6  | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.562 | 0.502 | 10.7  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.866 | 0.785 | 9.4   | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.402 | 0.355 | 11.7  | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.381 | 0.331 | 13.1# | 108   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.269 | 0.232 | 13.8  | 107   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.542 | 0.492 | 9.2   | 107   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.429 | 0.394 | 8.2   | 106   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.007 | 12.5  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.206 | 1.007 | 16.5  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.517 | 0.498 | 3.7   | 102   | 0.00     |
| 52 CM | Toluene                     | 0.882 | 0.786 | 10.9# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.607 | 0.543 | 10.5  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.619 | 0.552 | 10.8  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.367 | 0.341 | 7.1   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.553 | 0.522 | 5.6   | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.605 | 0.564 | 6.8   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.292 | 0.251 | 14.0  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.389 | 0.374 | 3.9   | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.467 | 0.424 | 9.2   | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.391 | 0.376 | 3.8   | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.483 | 0.406 | 15.9  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 120   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.449 | 0.367 | 18.3  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 0.928 | 14.2  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.437 | 0.377 | 13.7  | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.807 | 1.615 | 10.6# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.700 | 0.604 | 13.7  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.673 | 0.588 | 12.6  | 103   | 0.00     |
| 70 T  | Styrene                     | 1.145 | 1.029 | 10.1  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.378 | 0.328 | 13.2  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 123   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.430 | 3.100 | 9.6   | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 1.524 | 1.339 | 12.1  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.071 | 0.936 | 12.6  | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.029 | 0.915 | 11.1  | 106   | 0.00     |
| 77 T  | Bromobenzene                | 0.960 | 0.813 | 15.3  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 3.869 | 3.511 | 9.3   | 111   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.396 | 2.106 | 12.1  | 109   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.929 | 2.597 | 11.3  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.408 | 0.346 | 15.2  | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.827 | 2.482 | 12.2  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.802 | 2.524 | 9.9   | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.913 | 2.660 | 8.7   | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.264 | 2.928 | 10.3  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.109 | 2.729 | 12.2  | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.649 | 1.436 | 12.9  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.708 | 1.441 | 15.6  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.770 | 2.380 | 14.1  | 104   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.613 | 0.519 | 15.3  | 104   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.621 | 1.422 | 12.3  | 110   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.296 | 0.250 | 15.5  | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.106 | 1.008 | 8.9   | 106   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.509 | 0.358 | 29.7# | 82    | 0.00     |
| 95 T | Naphthalene                 | 3.302 | 3.319 | -0.5  | 110   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.092 | 0.999 | 8.5   | 105   | 0.00     |

(#) = Out of Range

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