

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW092419\  
 Data File : VW013267.D  
 Acq On : 24 Sep 2019 10:57  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 25 07:25:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 20 15:58:08 2019  
 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   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.288 | 0.259 | 10.1  | 101   | 0.01     |
| 3 P   | Chloromethane               | 0.371 | 0.342 | 7.8   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.478 | 0.474 | 0.8#  | 110   | 0.00     |
| 5 T   | Bromomethane                | 0.303 | 0.297 | 2.0   | 105   | 0.00     |
| 6 T   | Chloroethane                | 0.282 | 0.279 | 1.1   | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.276 | 0.250 | 9.4   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.235 | 0.233 | 0.9   | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.449 | 0.457 | -1.8  | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 0.696 | 0.735 | -5.6  | 111   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.034 | 0.025 | 26.5# | 100   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.465 | 0.482 | -3.7# | 111   | 0.00     |
| 13 T  | Acrolein                    | 0.023 | 0.023 | 0.0   | 96    | 0.00     |
| 14 T  | Allyl chloride              | 0.740 | 0.769 | -3.9  | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.102 | 0.101 | 1.0   | 107   | 0.00     |
| 16 T  | Acetone                     | 0.092 | 0.093 | -1.1  | 112   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.343 | 1.377 | -2.5  | 107   | 0.00     |
| 18 T  | Methyl Acetate              | 0.259 | 0.235 | 9.3   | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.712 | 0.715 | -0.4  | 105   | 0.00     |
| 20 T  | Methylene Chloride          | 0.521 | 0.486 | 6.7   | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.502 | 0.516 | -2.8  | 108   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.406 | 1.451 | -3.2  | 106   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.834 | 0.858 | -2.9  | 107   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.849 | 0.872 | -2.7  | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 0.138 | 0.128 | 7.2   | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.563 | 0.523 | 7.1   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.530 | 0.551 | -4.0  | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 0.326 | 0.349 | -7.1  | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.085 | 0.080 | 5.9   | 103   | 0.00     |
| 30 C  | Chloroform                  | 0.831 | 0.827 | 0.5#  | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 0.885 | 0.865 | 2.3   | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.673 | 0.670 | 0.4   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.408 | 0.393 | 3.7   | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.275 | 0.276 | -0.4  | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.484 | 0.482 | 0.4   | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.206 | 0.197 | 4.4   | 106   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.434 | 0.428 | 1.4   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.622 | 0.634 | -1.9  | 107   | 0.00     |
| 40 TM | Benzene                     | 1.351 | 1.366 | -1.1  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.123 | 0.118 | 4.1   | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.363 | 0.352 | 3.0   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.394 | 0.385 | 2.3   | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.385 | -1.6  | 108   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.330 | 0.341 | -3.3# | 110   | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.160 | 0.158 | 1.3   | 105   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.407 | 0.411 | -1.0  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.185 | 0.181 | 2.2   | 105   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 110   | 0.00     |
| 50 S  | Toluene-d8                  | 1.151 | 1.151 | 0.0   | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.198 | 0.186 | 6.1   | 102   | 0.00     |
| 52 CM | Toluene                     | 0.866 | 0.880 | -1.6# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.419 | 0.430 | -2.6  | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.509 | 0.535 | -5.1  | 111   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.239 | 0.238 | 0.4   | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.313 | 0.322 | -2.9  | 107   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.418 | 0.417 | 0.2   | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.145 | 0.147 | -1.4  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.136 | 0.134 | 1.5   | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.272 | 0.275 | -1.1  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.228 | 0.226 | 0.9   | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.393 | 0.394 | -0.3  | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.379 | 0.383 | -1.1  | 108   | 0.00     |
| 65 PM | Chlorobenzene               | 1.044 | 1.049 | -0.5  | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.357 | 0.370 | -3.6  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.892 | 1.951 | -3.1# | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.721 | 0.741 | -2.8  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.670 | 0.689 | -2.8  | 108   | 0.00     |
| 70 T  | Styrene                     | 1.151 | 1.197 | -4.0  | 107   | 0.00     |
| 71 P  | Bromoform                   | 0.188 | 0.187 | 0.5   | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.694 | 3.812 | -3.2  | 108   | 0.00     |
| 74 T  | N-amyl acetate              | 0.820 | 0.823 | -0.4  | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.618 | 0.588 | 4.9   | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.442 | 0.365 | 17.4  | 83    | 0.00     |
| 77 T  | Bromobenzene                | 0.875 | 0.882 | -0.8  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 4.323 | 4.449 | -2.9  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.422 | 2.457 | -1.4  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.105 | 3.216 | -3.6  | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.197 | 0.203 | -3.0  | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.554 | 2.562 | -0.3  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.725 | 2.849 | -4.6  | 108   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.090 | 3.205 | -3.7  | 108   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.757 | 3.856 | -2.6  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.485 | 3.602 | -3.4  | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.685 | 1.712 | -1.6  | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.652 | 1.697 | -2.7  | 108   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.182 | 3.366 | -5.8  | 108   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.585 | 0.608 | -3.9  | 107   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.457 | 1.498 | -2.8  | 108   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.092 | 2.1   | 105   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.044 | 1.155 | -10.6 | 114   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.714 | 0.729 | -2.1  | 108   | 0.00     |
| 95 T | Naphthalene                 | 1.708 | 1.969 | -15.3 | 116   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.902 | 0.989 | -9.6  | 113   | 0.00     |

(#) = Out of Range

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