

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD102618\  
 Data File : VD060214.D  
 Acq On : 26 Oct 2018 13:51  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 26 23:52:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 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    | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.470 | 0.424 | 9.8    | 77    | 0.00     |
| 3 P   | Chloromethane               | 0.424 | 0.397 | 6.4    | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.347 | 0.331 | 4.6#   | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.044 | 0.059 | -34.1# | 101   | 0.00     |
| 6 T   | Chloroethane                | 0.095 | 0.106 | -11.6  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.416 | 0.417 | -0.2   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.085 | 0.087 | -2.4   | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.259 | 0.272 | -5.0   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.275 | 0.265 | 3.6    | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.027 | 0.024 | 11.1   | 75    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.204 | 0.211 | -3.4#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.017 | 0.012 | 29.4#  | 68    | 0.00     |
| 14 T  | Allyl chloride              | 0.424 | 0.442 | -4.2   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.113 | 0.108 | 4.4    | 84    | 0.00     |
| 16 T  | Acetone                     | 0.069 | 0.073 | -5.8   | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.686 | 0.625 | 8.9    | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 0.148 | 0.165 | -11.5  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.897 | 0.893 | 0.4    | 87    | 0.00     |
| 20 T  | Methylene Chloride          | 0.643 | 0.535 | 16.8   | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.527 | 0.520 | 1.3    | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.892 | 1.983 | -4.8   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.063 | 1.043 | 1.9    | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.858 | 0.903 | -5.2   | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 0.172 | 0.174 | -1.2   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.650 | 0.731 | -12.5  | 101   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.558 | 0.575 | -3.0   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.417 | 0.410 | 1.7    | 89    | 0.00     |
| 29    | Tetrahydrofuran             | 0.100 | 0.091 | 9.0    | 80    | 0.00     |
| 30 C  | Chloroform                  | 0.868 | 0.926 | -6.7#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.821 | 0.782 | 4.8    | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.711 | 0.768 | -8.0   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.379 | 0.363 | 4.2    | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.380 | 0.404 | -6.3   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.478 | 0.498 | -4.2   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.317 | 0.304 | 4.1    | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.434 | 0.465 | -7.1   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.543 | 0.565 | -4.1   | 90    | 0.00     |
| 40 TM | Benzene                     | 1.250 | 1.259 | -0.7   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.179 | 0.163 | 8.9    | 72    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.358 | 0.379 | -5.9   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.417 | 0.399 | 4.3    | 81    | 0.00     |
| 44 TM | Trichloroethene             | 0.387 | 0.402 | -3.9   | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.327 | 0.344 | -5.2#  | 90    | 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              | 0.212 | 0.219 | -3.3  | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.451 | 0.497 | -10.2 | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.238 | 0.242 | -1.7  | 87    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.083 | 1.124 | -3.8  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.263 | 0.266 | -1.1  | 87    | 0.00     |
| 52 CM | Toluene                     | 0.805 | 0.840 | -4.3# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.409 | 0.441 | -7.8  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.504 | 0.551 | -9.3  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.263 | 0.269 | -2.3  | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.291 | 0.298 | -2.4  | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.401 | 0.420 | -4.7  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.161 | 0.161 | 0.0   | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.189 | 0.192 | -1.6  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.323 | 0.345 | -6.8  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.280 | 0.283 | -1.1  | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.405 | 0.424 | -4.7  | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.438 | 0.452 | -3.2  | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 1.115 | -3.0  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.384 | -6.4  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.753 | 1.831 | -4.4# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.655 | 0.697 | -6.4  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.648 | 0.683 | -5.4  | 93    | 0.00     |
| 70 T  | Styrene                     | 1.083 | 1.130 | -4.3  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.292 | 0.303 | -3.8  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.299 | 3.357 | -1.8  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.208 | 1.119 | 7.4   | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.720 | 0.676 | 6.1   | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.720 | 0.687 | 4.6   | 87    | 0.00     |
| 77 T  | Bromobenzene                | 0.959 | 0.948 | 1.1   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.096 | 4.197 | -2.5  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.273 | 2.343 | -3.1  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.553 | 2.587 | -1.3  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.202 | 0.206 | -2.0  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.571 | 2.628 | -2.2  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.930 | 2.916 | 0.5   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.691 | 2.675 | 0.6   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.464 | 3.469 | -0.1  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.841 | 2.947 | -3.7  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.670 | 1.713 | -2.6  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.677 | 1.675 | 0.1   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.772 | 2.911 | -5.0  | 103   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.658 | 0.732 | -11.2 | 97    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.404 | 1.417 | -0.9  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.096 | 0.094 | 2.1   | 87    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.192 | 1.218 | -2.2  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.792 | 0.833 | -5.2  | 95    | 0.00     |
| 95 T | Naphthalene                 | 1.767 | 1.669 | 5.5   | 85    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.037 | 1.024 | 1.3   | 92    | 0.00     |

(#) = Out of Range

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