

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD112618\  
 Data File : VD060448.D  
 Acq On : 26 Nov 2018 10:41  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 26 14:45:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 19 16:31:59 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    | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.448 | 0.406 | 9.4    | 93    | 0.02     |
| 3 P   | Chloromethane               | 0.474 | 0.428 | 9.7    | 93    | 0.02     |
| 4 C   | Vinyl Chloride              | 0.387 | 0.372 | 3.9#   | 94    | 0.02     |
| 5 T   | Bromomethane                | 0.092 | 0.097 | -5.4   | 86    | 0.01     |
| 6 T   | Chloroethane                | 0.128 | 0.126 | 1.6    | 87    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.456 | 0.470 | -3.1   | 96    | 0.02     |
| 8 T   | Diethyl Ether               | 0.083 | 0.085 | -2.4   | 94    | 0.02     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.300 | 0.310 | -3.3   | 95    | 0.02     |
| 10 T  | Methyl Iodide               | 0.390 | 0.347 | 11.0   | 82    | 0.02     |
| 11 T  | Tert butyl alcohol          | 0.015 | 0.018 | -20.0  | 102   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.244 | 0.245 | -0.4#  | 92    | 0.01     |
| 13 T  | Acrolein                    | 0.017 | 0.014 | 17.6   | 75    | 0.02     |
| 14 T  | Allyl chloride              | 0.467 | 0.492 | -5.4   | 96    | 0.01     |
| 15 T  | Acrylonitrile               | 0.086 | 0.094 | -9.3   | 99    | 0.02     |
| 16 T  | Acetone                     | 0.062 | 0.074 | -19.4  | 113   | 0.01     |
| 17 T  | Carbon Disulfide            | 0.787 | 0.724 | 8.0    | 87    | 0.02     |
| 18 T  | Methyl Acetate              | 0.132 | 0.151 | -14.4  | 114   | 0.02     |
| 19 T  | Methyl tert-butyl Ether     | 0.731 | 0.799 | -9.3   | 99    | 0.01     |
| 20 T  | Methylene Chloride          | 0.551 | 0.569 | -3.3   | 102   | 0.02     |
| 21 T  | trans-1,2-Dichloroethene    | 0.542 | 0.581 | -7.2   | 98    | 0.02     |
| 22 T  | Diisopropyl ether           | 1.744 | 1.943 | -11.4  | 101   | 0.01     |
| 23 T  | Vinyl Acetate               | 0.868 | 0.944 | -8.8   | 98    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 0.894 | 1.003 | -12.2  | 103   | 0.01     |
| 25 T  | 2-Butanone                  | 0.129 | 0.144 | -11.6  | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.695 | 0.801 | -15.3  | 106   | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 0.564 | 0.620 | -9.9   | 101   | 0.01     |
| 28 T  | Bromochloromethane          | 0.395 | 0.421 | -6.6   | 100   | 0.01     |
| 29    | Tetrahydrofuran             | 0.068 | 0.073 | -7.4   | 98    | 0.01     |
| 30 C  | Chloroform                  | 0.894 | 1.000 | -11.9# | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 0.855 | 0.841 | 1.6    | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.753 | 0.841 | -11.7  | 101   | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.358 | 0.343 | 4.2    | 86    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.373 | 0.367 | 1.6    | 87    | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 0.494 | 0.520 | -5.3   | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.227 | 0.245 | -7.9   | 97    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 0.458 | 0.498 | -8.7   | 101   | 0.01     |
| 39 T  | Methylcyclohexane           | 0.568 | 0.585 | -3.0   | 96    | 0.01     |
| 40 TM | Benzene                     | 1.261 | 1.364 | -8.2   | 99    | 0.01     |
| 41 T  | Methacrylonitrile           | 0.260 | 0.278 | -6.9   | 98    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.330 | 0.365 | -10.6  | 100   | 0.01     |
| 43 T  | Isopropyl Acetate           | 0.286 | 0.308 | -7.7   | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.382 | 0.420 | -9.9   | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.318 | 0.355 | -11.6# | 101   | 0.00     |

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 Quant Title : SW846 8260  
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 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.186 | 0.205 | -10.2 | 99    | 0.01     |
| 47 T  | Bromodichloromethane        | 0.439 | 0.489 | -11.4 | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.173 | 0.186 | -7.5  | 97    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.091 | 1.047 | 4.0   | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.186 | 0.193 | -3.8  | 96    | 0.00     |
| 52 CM | Toluene                     | 0.805 | 0.878 | -9.1# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.371 | 0.413 | -11.3 | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.476 | 0.527 | -10.7 | 100   | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 0.233 | 0.241 | -3.4  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.215 | 0.241 | -12.1 | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.356 | 0.379 | -6.5  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.130 | 0.135 | -3.8  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.132 | 0.152 | -15.2 | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.284 | 0.322 | -13.4 | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.234 | 0.256 | -9.4  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.395 | 0.377 | 4.6   | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.446 | 0.475 | -6.5  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.083 | 1.195 | -10.3 | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.354 | 0.391 | -10.5 | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.853 | 1.999 | -7.9# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.684 | 0.724 | -5.8  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.660 | 0.718 | -8.8  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.067 | 1.193 | -11.8 | 104   | 0.00     |
| 71 P  | Bromoform                   | 0.238 | 0.277 | -16.4 | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.643 | 4.116 | -13.0 | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 0.934 | 1.040 | -11.3 | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.596 | 0.639 | -7.2  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.598 | 0.649 | -8.5  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.968 | 1.045 | -8.0  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 4.547 | 4.896 | -7.7  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.490 | 2.743 | -10.2 | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.831 | 2.951 | -4.2  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.170 | 0.196 | -15.3 | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.797 | 2.903 | -3.8  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.143 | 3.500 | -11.4 | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.827 | 3.209 | -13.5 | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.856 | 4.198 | -8.9  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.105 | 3.406 | -9.7  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.722 | 1.849 | -7.4  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.681 | 1.806 | -7.4  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.168 | 3.338 | -5.4  | 96    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.736 | 0.892 | -21.2# | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.414 | 1.461 | -3.3   | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.072 | 0.082 | -13.9  | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.121 | 1.281 | -14.3  | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.839 | 0.919 | -9.5   | 97    | 0.00     |
| 95 T | Naphthalene                 | 1.369 | 1.588 | -16.0  | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.898 | 1.025 | -14.1  | 101   | 0.00     |

(#) = Out of Range

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