

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080219\  
 Data File : VD063351.D  
 Acq On : 3 Aug 2019 8:42  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 04 03:46:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 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    | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.611 | 0.605 | 1.0    | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.475 | 0.483 | -1.7   | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.492 | 0.507 | -3.0#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.248 | 0.280 | -12.9  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.227 | 0.235 | -3.5   | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.954 | 1.041 | -9.1   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.133 | 0.140 | -5.3   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.528 | 0.607 | -15.0  | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 0.763 | 0.828 | -8.5   | 86    | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.024 | 0.025 | -4.2   | 100   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.388 | 0.429 | -10.6# | 99    | 0.01     |
| 13 T  | Acrolein                    | 0.023 | 0.018 | 21.7#  | 74    | 0.00     |
| 14 T  | Allyl chloride              | 0.618 | 0.664 | -7.4   | 90    | 0.01     |
| 15 T  | Acrylonitrile               | 0.063 | 0.072 | -14.3  | 106   | 0.01     |
| 16 T  | Acetone                     | 0.108 | 0.107 | 0.9    | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.298 | 1.275 | 1.8    | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.208 | 0.273 | -31.3# | 125   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.876 | 1.004 | -14.6  | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 0.437 | 0.456 | -4.3   | 93    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.435 | 0.471 | -8.3   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.234 | 1.399 | -13.4  | 97    | 0.01     |
| 23 T  | Vinyl Acetate               | 0.759 | 0.826 | -8.8   | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.788 | 0.935 | -18.7  | 102   | 0.01     |
| 25 T  | 2-Butanone                  | 0.108 | 0.122 | -13.0  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.813 | 0.821 | -1.0   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.467 | 0.547 | -17.1  | 97    | 0.01     |
| 28 T  | Bromochloromethane          | 0.314 | 0.353 | -12.4  | 96    | 0.00     |
| 29    | Tetrahydrofuran             | 0.051 | 0.056 | -9.8   | 96    | 0.01     |
| 30 C  | Chloroform                  | 0.978 | 1.181 | -20.8# | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.494 | 0.488 | 1.2    | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.946 | 1.137 | -20.2# | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.555 | 0.623 | -12.3  | 89    | 0.01     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.427 | 0.476 | -11.5  | 92    | 0.01     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.505 | -10.7  | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.205 | 0.221 | -7.8   | 103   | 0.01     |
| 38 T  | Carbon Tetrachloride        | 0.687 | 0.833 | -21.3# | 96    | 0.01     |
| 39 T  | Methylcyclohexane           | 0.380 | 0.408 | -7.4   | 89    | 0.00     |
| 40 TM | Benzene                     | 0.956 | 1.107 | -15.8  | 93    | 0.01     |
| 41 T  | Methacrylonitrile           | 0.245 | 0.298 | -21.6# | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.507 | 0.620 | -22.3# | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.262 | 0.306 | -16.8  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.388 | 0.435 | -12.1  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.243 | 0.259 | -6.6#  | 90    | 0.01     |

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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              | 0.202 | 0.241 | -19.3   | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.515 | 0.615 | -19.4   | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.170 | 0.211 | -24.1#  | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.001 | 0.002 | -100.0# | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 0.955 | 1.104 | -15.6   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.178 | 0.222 | -24.7#  | 106   | 0.00     |
| 52 CM | Toluene                     | 0.636 | 0.745 | -17.1#  | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.444 | 0.489 | -10.1   | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.467 | 0.527 | -12.8   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.215 | 0.267 | -24.2#  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.235 | 0.308 | -31.1#  | 107   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.338 | 0.422 | -24.9#  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.122 | 0.119 | 2.5     | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.128 | 0.155 | -21.1#  | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.406 | 0.501 | -23.4#  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.265 | 0.334 | -26.0#  | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.435 | 0.466 | -7.1    | 90    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0     | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.398 | 0.502 | -26.1#  | 117   | 0.00     |
| 65 PM | Chlorobenzene               | 0.962 | 1.035 | -7.6    | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.424 | 0.511 | -20.5#  | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.634 | 1.890 | -15.7#  | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.599 | 0.641 | -7.0    | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.550 | 0.667 | -21.3#  | 113   | 0.00     |
| 70 T  | Styrene                     | 0.976 | 1.136 | -16.4   | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.308 | 0.375 | -21.8#  | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0     | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.138 | 3.470 | -10.6   | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 0.830 | 0.844 | -1.7    | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.533 | 0.599 | -12.4   | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.601 | 0.661 | -10.0   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.894 | 0.978 | -9.4    | 107   | 0.00     |
| 78 T  | n-propylbenzene             | 3.734 | 3.963 | -6.1    | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.164 | 2.237 | -3.4    | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.707 | 2.801 | -3.5    | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.167 | 0.166 | 0.6     | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.547 | 2.763 | -8.5    | 109   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.090 | 2.997 | 3.0     | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.800 | 2.884 | -3.0    | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.256 | 3.427 | -5.3    | 104   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.108 | 3.100 | 0.3     | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.583 | 1.674 | -5.7    | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.601 | 1.688 | -5.4    | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.684 | 2.961 | -10.3   | 104   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.810 | 0.832 | -2.7  | 102   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.379 | 1.584 | -14.9 | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.109 | 0.122 | -11.9 | 132   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.094 | 1.078 | 1.5   | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.793 | 0.790 | 0.4   | 95    | 0.00     |
| 95 T | Naphthalene                 | 1.547 | 1.679 | -8.5  | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.864 | 0.909 | -5.2  | 105   | 0.00     |

(#) = Out of Range

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