

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD112519\  
 Data File : VD064373.D  
 Acq On : 25 Nov 2019 21:17  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 26 06:42:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 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    | 49#   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.415 | 0.312 | 24.8#  | 35#   | 0.00     |
| 3 P   | Chloromethane               | 0.445 | 0.427 | 4.0    | 46#   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.476 | 0.518 | -8.8#  | 51    | 0.00     |
| 5 T   | Bromomethane                | 0.300 | 0.369 | -23.0# | 57    | 0.00     |
| 6 T   | Chloroethane                | 0.304 | 0.387 | -27.3# | 59    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.771 | 0.947 | -22.8# | 57    | 0.00     |
| 8 T   | Diethyl Ether               | 0.212 | 0.238 | -12.3  | 53    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.441 | 0.439 | 0.5    | 48#   | 0.00     |
| 10 T  | Methyl Iodide               | 0.440 | 0.454 | -3.2   | 41#   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.029 | 0.030 | -3.4   | 47#   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.420 | 0.415 | 1.2#   | 46#   | 0.00     |
| 13 T  | Acrolein                    | 0.024 | 0.031 | -29.2# | 51    | 0.00     |
| 14 T  | Allyl chloride              | 0.743 | 0.690 | 7.1    | 43#   | 0.00     |
| 15 T  | Acrylonitrile               | 0.090 | 0.106 | -17.8  | 56    | 0.00     |
| 16 T  | Acetone                     | 0.097 | 0.083 | 14.4   | 38#   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.308 | 1.164 | 11.0   | 41#   | 0.00     |
| 18 T  | Methyl Acetate              | 0.272 | 0.312 | -14.7  | 56    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.003 | 1.113 | -11.0  | 52    | 0.00     |
| 20 T  | Methylene Chloride          | 0.492 | 0.493 | -0.2   | 51    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.476 | 0.482 | -1.3   | 47#   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.378 | 1.461 | -6.0   | 50#   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.768 | 0.857 | -11.6  | 50    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.800 | 0.862 | -7.7   | 50#   | 0.00     |
| 25 T  | 2-Butanone                  | 0.126 | 0.130 | -3.2   | 48#   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.785 | 0.708 | 9.8    | 42#   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.510 | 0.567 | -11.2  | 52    | 0.00     |
| 28 T  | Bromochloromethane          | 0.279 | 0.345 | -23.7# | 55    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.076 | 0.086 | -13.2  | 53    | 0.00     |
| 30 C  | Chloroform                  | 0.819 | 0.922 | -12.6# | 52    | 0.00     |
| 31 T  | Cyclohexane                 | 0.807 | 0.709 | 12.1   | 44#   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.784 | 0.797 | -1.7   | 48#   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.411 | 0.453 | -10.2  | 49#   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 52    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.287 | 0.313 | -9.1   | 51    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.461 | 0.431 | 6.5    | 46#   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.195 | 0.204 | -4.6   | 53    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.494 | 0.478 | 3.2    | 48#   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.584 | 0.528 | 9.6    | 45#   | 0.00     |
| 40 TM | Benzene                     | 1.261 | 1.270 | -0.7   | 49#   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.122 | 0.120 | 1.6    | 46#   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.379 | 0.391 | -3.2   | 52    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.401 | 0.410 | -2.2   | 51    | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.379 | 0.0    | 49#   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.307 | 0.324 | -5.5#  | 52    | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.164 | 0.181 | -10.4 | 55    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.443 | 0.478 | -7.9  | 54    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.196 | 0.193 | 1.5   | 50    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 58    | 0.00     |
| 50 S  | Toluene-d8                  | 1.083 | 1.094 | -1.0  | 47#   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.192 | 0.204 | -6.2  | 53    | 0.00     |
| 52 CM | Toluene                     | 0.829 | 0.829 | 0.0   | 50#   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.443 | 0.446 | -0.7  | 50#   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.517 | 0.530 | -2.5  | 51    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.223 | 0.253 | -13.5 | 56    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.312 | 0.329 | -5.4  | 52    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.389 | 0.422 | -8.5  | 54    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.126 | 0.147 | -16.7 | 58    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.137 | 0.137 | 0.0   | 49#   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.311 | 0.342 | -10.0 | 55    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.223 | 0.248 | -11.2 | 55    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.375 | 0.367 | 2.1   | 47#   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 53    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.385 | 0.361 | 6.2   | 47#   | 0.00     |
| 65 PM | Chlorobenzene               | 1.017 | 1.032 | -1.5  | 52    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.400 | -3.4  | 53    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.839 | 1.795 | 2.4#  | 50#   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.705 | 0.702 | 0.4   | 50    | 0.00     |
| 69 T  | o-Xylene                    | 0.654 | 0.656 | -0.3  | 51    | 0.00     |
| 70 T  | Styrene                     | 1.141 | 1.140 | 0.1   | 51    | 0.00     |
| 71 P  | Bromoform                   | 0.220 | 0.236 | -7.3  | 54    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 54    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.670 | 3.506 | 4.5   | 49#   | 0.00     |
| 74 T  | N-amyl acetate              | 0.867 | 0.835 | 3.7   | 51    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.553 | 0.592 | -7.1  | 56    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.403 | 0.392 | 2.7   | 50    | 0.00     |
| 77 T  | Bromobenzene                | 0.892 | 0.916 | -2.7  | 53    | 0.00     |
| 78 T  | n-propylbenzene             | 4.193 | 4.015 | 4.2   | 49#   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.367 | 2.254 | 4.8   | 49#   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.016 | 2.906 | 3.6   | 50#   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.203 | 0.192 | 5.4   | 49#   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.469 | 2.408 | 2.5   | 51    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.659 | 2.533 | 4.7   | 49#   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.977 | 2.912 | 2.2   | 50    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.571 | 3.398 | 4.8   | 49#   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.395 | 3.225 | 5.0   | 49#   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.655 | 1.669 | -0.8  | 53    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.615 | 1.638 | -1.4  | 51    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.068 | 2.888 | 5.9   | 48#   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.627 | 0.612 | 2.4  | 51    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.401 | 1.454 | -3.8 | 53    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.099 | 0.096 | 3.0  | 52    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.081 | 1.090 | -0.8 | 51    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.698 | 0.656 | 6.0  | 48#   | 0.00     |
| 95 T | Naphthalene                 | 1.771 | 1.899 | -7.2 | 55    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.919 | 0.961 | -4.6 | 54    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5