

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD012920\  
 Data File : VD064988.D  
 Acq On : 29 Jan 2020 10:45  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 29 15:43:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 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   | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.377 | 0.395 | -4.8  | 113   | 0.00     |
| 3 P   | Chloromethane               | 0.552 | 0.555 | -0.5  | 113   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.634 | 0.641 | -1.1# | 112   | 0.00     |
| 5 T   | Bromomethane                | 0.427 | 0.397 | 7.0   | 107   | 0.00     |
| 6 T   | Chloroethane                | 0.418 | 0.407 | 2.6   | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.979 | 0.990 | -1.1  | 112   | 0.00     |
| 8 T   | Diethyl Ether               | 0.221 | 0.220 | 0.5   | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.456 | 0.475 | -4.2  | 116   | 0.00     |
| 10 T  | Methyl Iodide               | 0.484 | 0.513 | -6.0  | 108   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.027 | 0.024 | 11.1  | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.435 | 0.457 | -5.1# | 118   | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.036 | -9.1  | 124   | 0.00     |
| 14 T  | Allyl chloride              | 0.694 | 0.736 | -6.1  | 117   | 0.00     |
| 15 T  | Acrylonitrile               | 0.096 | 0.093 | 3.1   | 108   | 0.00     |
| 16 T  | Acetone                     | 0.101 | 0.110 | -8.9  | 118   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.432 | 1.455 | -1.6  | 113   | 0.00     |
| 18 T  | Methyl Acetate              | 0.225 | 0.209 | 7.1   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.972 | 0.992 | -2.1  | 110   | 0.00     |
| 20 T  | Methylene Chloride          | 0.556 | 0.535 | 3.8   | 123   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.501 | 0.515 | -2.8  | 115   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.383 | 1.456 | -5.3  | 115   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.810 | 0.831 | -2.6  | 109   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.849 | 0.892 | -5.1  | 117   | 0.00     |
| 25 T  | 2-Butanone                  | 0.130 | 0.128 | 1.5   | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.770 | 0.832 | -8.1  | 121   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.535 | 0.556 | -3.9  | 116   | 0.00     |
| 28 T  | Bromochloromethane          | 0.340 | 0.348 | -2.4  | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.080 | 0.075 | 6.3   | 103   | 0.00     |
| 30 C  | Chloroform                  | 0.878 | 0.908 | -3.4# | 116   | 0.00     |
| 31 T  | Cyclohexane                 | 0.836 | 0.825 | 1.3   | 114   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.817 | 0.850 | -4.0  | 116   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.480 | 0.455 | 5.2   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.312 | 0.6   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.482 | 0.522 | -8.3  | 116   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.199 | 0.192 | 3.5   | 108   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.510 | 0.557 | -9.2  | 116   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.564 | 0.615 | -9.0  | 114   | 0.00     |
| 40 TM | Benzene                     | 1.328 | 1.418 | -6.8  | 115   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.107 | 0.125 | -16.8 | 109   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.396 | 0.409 | -3.3  | 112   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.378 | 0.375 | 0.8   | 107   | 0.00     |
| 44 TM | Trichloroethene             | 0.372 | 0.402 | -8.1  | 118   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.322 | 0.340 | -5.6# | 116   | 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              | 0.176 | 0.177 | -0.6   | 112   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.486 | -6.3   | 115   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.174 | 0.177 | -1.7   | 106   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 1.213 | 1.224 | -0.9   | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.189 | 0.186 | 1.6    | 104   | 0.00     |
| 52 CM | Toluene                     | 0.856 | 0.924 | -7.9#  | 116   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.436 | 0.459 | -5.3   | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.510 | 0.548 | -7.5   | 114   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.237 | 0.238 | -0.4   | 109   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.283 | 0.299 | -5.7   | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.406 | 0.426 | -4.9   | 112   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.094 | 0.090 | 4.3    | 112   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.131 | 0.138 | -5.3   | 108   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.316 | 0.321 | -1.6   | 110   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.228 | 0.233 | -2.2   | 111   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.371 | 0.374 | -0.8   | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.361 | 0.382 | -5.8   | 111   | 0.00     |
| 65 PM | Chlorobenzene               | 1.015 | 1.085 | -6.9   | 116   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.382 | 0.411 | -7.6   | 115   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.802 | 2.000 | -11.0# | 115   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.694 | 0.781 | -12.5  | 116   | 0.00     |
| 69 T  | o-Xylene                    | 0.616 | 0.687 | -11.5  | 116   | 0.00     |
| 70 T  | Styrene                     | 1.097 | 1.218 | -11.0  | 113   | 0.00     |
| 71 P  | Bromoform                   | 0.212 | 0.216 | -1.9   | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.417 | 3.936 | -15.2  | 116   | 0.00     |
| 74 T  | N-amyl acetate              | 0.765 | 0.777 | -1.6   | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.574 | 0.580 | -1.0   | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.415 | 0.410 | 1.2    | 94    | 0.00     |
| 77 T  | Bromobenzene                | 0.836 | 0.896 | -7.2   | 111   | 0.00     |
| 78 T  | n-propylbenzene             | 4.064 | 4.593 | -13.0  | 115   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.230 | 2.481 | -11.3  | 114   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.801 | 3.169 | -13.1  | 115   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.194 | 0.198 | -2.1   | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.364 | 2.604 | -10.2  | 114   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.377 | 2.659 | -11.9  | 112   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.837 | 3.178 | -12.0  | 114   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.365 | 3.740 | -11.1  | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.149 | 3.570 | -13.4  | 114   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.604 | 1.758 | -9.6   | 115   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.592 | 1.688 | -6.0   | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.874 | 3.229 | -12.4  | 112   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.607 | 0.661 | -8.9 | 112   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.362 | 1.446 | -6.2 | 110   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.092 | 0.090 | 2.2  | 105   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.942 | 0.974 | -3.4 | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.596 | 0.635 | -6.5 | 113   | 0.00     |
| 95 T | Naphthalene                 | 1.521 | 1.585 | -4.2 | 104   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.817 | 0.846 | -3.5 | 106   | 0.00     |

(#) = Out of Range

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