

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD082520\  
 Data File : VD066394.D  
 Acq On : 25 Aug 2020 11:11  
 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: Aug 26 08:09:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 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   | 82    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.425 | 0.409 | 3.8   | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.301 | 0.289 | 4.0   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.324 | 0.319 | 1.5#  | 86    | 0.00     |
| 5 T   | Bromomethane                | 0.242 | 0.255 | -5.4  | 92    | 0.00     |
| 6 T   | Chloroethane                | 0.207 | 0.212 | -2.4  | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.880 | 0.923 | -4.9  | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.197 | 0.192 | 2.5   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.434 | 0.448 | -3.2  | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.495 | 0.458 | 7.5   | 73    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.033 | 10.8  | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.408 | 0.407 | 0.2#  | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.015 | 31.8# | 59    | 0.00     |
| 14 T  | Allyl chloride              | 0.544 | 0.530 | 2.6   | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.079 | 0.078 | 1.3   | 83    | 0.00     |
| 16 T  | Acetone                     | 0.088 | 0.091 | -3.4  | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.235 | 1.199 | 2.9   | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 0.166 | 0.161 | 3.0   | 82    | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 0.981 | 1.038 | -5.8  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.605 | 0.461 | 23.8# | 80    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.474 | 0.482 | -1.7  | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.053 | 1.070 | -1.6  | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.652 | 0.679 | -4.1  | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.744 | 0.778 | -4.6  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.100 | 0.104 | -4.0  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.798 | 0.836 | -4.8  | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.508 | 0.523 | -3.0  | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 0.256 | 0.292 | -14.1 | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.057 | 0.058 | -1.8  | 83    | 0.00     |
| 30 C  | Chloroform                  | 0.861 | 0.907 | -5.3# | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 0.681 | 0.629 | 7.6   | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.881 | 0.934 | -6.0  | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.490 | 0.562 | -14.7 | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.336 | -7.3  | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.463 | -1.5  | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.155 | 0.156 | -0.6  | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.594 | 0.635 | -6.9  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.537 | 0.550 | -2.4  | 82    | 0.00     |
| 40 TM | Benzene                     | 1.200 | 1.232 | -2.7  | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.096 | 0.112 | -16.7 | 90    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.423 | 0.444 | -5.0  | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.311 | 0.316 | -1.6  | 83    | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.396 | -1.5  | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.272 | 0.275 | -1.1# | 84    | 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              | 0.169 | 0.180 | -6.5  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.506 | -8.6  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.161 | 0.156 | 3.1   | 83    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 1.144 | 1.251 | -9.4  | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.151 | 0.153 | -1.3  | 81    | 0.00     |
| 52 CM | Toluene                     | 0.813 | 0.842 | -3.6# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.442 | 0.459 | -3.8  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.496 | 0.508 | -2.4  | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.229 | 0.225 | 1.7   | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.265 | 0.282 | -6.4  | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.379 | 0.394 | -4.0  | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.110 | 0.117 | -6.4  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.106 | 0.110 | -3.8  | 80    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.346 | 0.354 | -2.3  | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.226 | 0.234 | -3.5  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.406 | 0.454 | -11.8 | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.379 | 0.384 | -1.3  | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 0.995 | 1.052 | -5.7  | 85    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.407 | 0.430 | -5.7  | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.751 | 1.862 | -6.3# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.667 | 0.710 | -6.4  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.621 | 0.662 | -6.6  | 88    | 0.00     |
| 70 T  | Styrene                     | 1.066 | 1.146 | -7.5  | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.231 | 0.242 | -4.8  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.349 | 3.552 | -6.1  | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 0.605 | 0.606 | -0.2  | 79    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.478 | 0.477 | 0.2   | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.352 | 0.323 | 8.2   | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.850 | 0.896 | -5.4  | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 3.840 | 4.018 | -4.6  | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.193 | 2.324 | -6.0  | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.892 | 3.102 | -7.3  | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.166 | 0.172 | -3.6  | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.324 | 2.444 | -5.2  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.512 | 2.691 | -7.1  | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.841 | 3.045 | -7.2  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.291 | 3.474 | -5.6  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.173 | 3.379 | -6.5  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.587 | 1.636 | -3.1  | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.593 | 1.654 | -3.8  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.800 | 2.952 | -5.4  | 85    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.627 | 0.628 | -0.2 | 84    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.366 | 1.434 | -5.0 | 87    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.109 | -9.0 | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.067 | 1.135 | -6.4 | 86    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.663 | 0.712 | -7.4 | 87    | 0.00     |
| 95 T | Naphthalene                 | 1.675 | 1.806 | -7.8 | 85    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.914 | 0.973 | -6.5 | 85    | 0.00     |

(#) = Out of Range

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