

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD040920\  
 Data File : VD065612.D  
 Acq On : 09 Apr 2020 15:25  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD040920

Quant Time: Apr 10 01:46:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040920S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 10 01:39:58 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   | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.451 | 0.442 | 2.0   | 105   | 0.00     |
| 3 P   | Chloromethane               | 0.561 | 0.510 | 9.1   | 105   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.524 | 0.491 | 6.3#  | 102   | 0.00     |
| 5 T   | Bromomethane                | 0.370 | 0.314 | 15.1  | 102   | 0.00     |
| 6 T   | Chloroethane                | 0.323 | 0.303 | 6.2   | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.795 | 0.746 | 6.2   | 107   | 0.00     |
| 8 T   | Diethyl Ether               | 0.164 | 0.177 | -7.9  | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.520 | 0.497 | 4.4   | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 0.511 | 0.534 | -4.5  | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.024 | 0.026 | -8.3  | 123   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.479 | 0.454 | 5.2#  | 106   | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.036 | -9.1  | 131   | 0.00     |
| 14 T  | Allyl chloride              | 0.711 | 0.683 | 3.9   | 103   | 0.00     |
| 15 T  | Acrylonitrile               | 0.097 | 0.090 | 7.2   | 104   | 0.00     |
| 16 T  | Acetone                     | 0.085 | 0.100 | -17.6 | 136   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.595 | 1.490 | 6.6   | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 0.251 | 0.230 | 8.4   | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.927 | 0.915 | 1.3   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.564 | 0.483 | 14.4  | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.544 | 0.521 | 4.2   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.367 | 1.351 | 1.2   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.723 | 0.742 | -2.6  | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.909 | 0.838 | 7.8   | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 0.117 | 0.121 | -3.4  | 114   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.814 | 0.785 | 3.6   | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.557 | 0.535 | 3.9   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 0.365 | 0.333 | 8.8   | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.073 | 0.072 | 1.4   | 106   | 0.00     |
| 30 C  | Chloroform                  | 0.952 | 0.867 | 8.9#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 0.844 | 0.811 | 3.9   | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.861 | 0.809 | 6.0   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.473 | 0.427 | 9.7   | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.349 | 0.333 | 4.6   | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.515 | 0.528 | -2.5  | 106   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.191 | 0.190 | 0.5   | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.559 | 0.556 | 0.5   | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.583 | 0.641 | -9.9  | 107   | 0.00     |
| 40 TM | Benzene                     | 1.471 | 1.456 | 1.0   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.108 | 0.098 | 9.3   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.411 | 0.393 | 4.4   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.349 | 0.355 | -1.7  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 0.423 | 0.413 | 2.4   | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.358 | 0.352 | 1.7#  | 103   | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.192 | 0.183 | 4.7   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.505 | 0.483 | 4.4   | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.162 | 0.171 | -5.6  | 107   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 1.276 | 1.272 | 0.3   | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.180 | 0.189 | -5.0  | 108   | 0.00     |
| 52 CM | Toluene                     | 0.930 | 0.943 | -1.4# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.448 | 0.453 | -1.1  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.549 | 0.550 | -0.2  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.270 | 0.252 | 6.7   | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.272 | 0.295 | -8.5  | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.447 | 0.426 | 4.7   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.143 | 0.147 | -2.8  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.119 | 0.135 | -13.4 | 112   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.360 | 0.343 | 4.7   | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.257 | 0.248 | 3.5   | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.410 | 0.405 | 1.2   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.398 | 0.394 | 1.0   | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.083 | 1.059 | 2.2   | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.413 | 0.406 | 1.7   | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.788 | 1.892 | -5.8# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.705 | 0.745 | -5.7  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.608 | 0.649 | -6.7  | 102   | 0.00     |
| 70 T  | Styrene                     | 1.075 | 1.160 | -7.9  | 102   | 0.00     |
| 71 P  | Bromoform                   | 0.231 | 0.219 | 5.2   | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.186 | 3.594 | -12.8 | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 0.631 | 0.678 | -7.4  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.586 | 0.559 | 4.6   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.401 | 0.391 | 2.5   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.873 | 0.881 | -0.9  | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 3.845 | 4.268 | -11.0 | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.204 | 2.351 | -6.7  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.685 | 2.987 | -11.2 | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.173 | 0.191 | -10.4 | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.372 | 2.490 | -5.0  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.245 | 2.515 | -12.0 | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.668 | 2.980 | -11.7 | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.195 | 3.574 | -11.9 | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.948 | 3.342 | -13.4 | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.684 | 1.709 | -1.5  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.682 | 1.654 | 1.7   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.661 | 3.026 | -13.7 | 107   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.643 | 0.651 | -1.2  | 105   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.433 | 1.435 | -0.1  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.090 | 0.087 | 3.3   | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.941 | 0.990 | -5.2  | 104   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.654 | 0.659 | -0.8  | 104   | 0.00     |
| 95 T | Naphthalene                 | 1.364 | 1.534 | -12.5 | 105   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.815 | 0.858 | -5.3  | 104   | 0.00     |

(#) = Out of Range

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