

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD110618\  
 Data File : VD060290.D  
 Acq On : 6 Nov 2018 14:08  
 Operator : VA/AP  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD110618

Quant Time: Nov 06 14:36:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 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    | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.448 | 0.411 | 8.3    | 103   | 0.00     |
| 3 P   | Chloromethane               | 0.474 | 0.463 | 2.3    | 109   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.387 | 0.377 | 2.6#   | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.092 | 0.112 | -21.7# | 108   | 0.00     |
| 6 T   | Chloroethane                | 0.128 | 0.145 | -13.3  | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.456 | 0.471 | -3.3   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.083 | 0.088 | -6.0   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.300 | 0.307 | -2.3   | 102   | 0.01     |
| 10 T  | Methyl Iodide               | 0.390 | 0.386 | 1.0    | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.015 | 0.015 | 0.0    | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.244 | 0.246 | -0.8#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 0.017 | 0.018 | -5.9   | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.467 | 0.491 | -5.1   | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 0.086 | 0.091 | -5.8   | 105   | 0.01     |
| 16 T  | Acetone                     | 0.062 | 0.064 | -3.2   | 106   | 0.01     |
| 17 T  | Carbon Disulfide            | 0.787 | 0.812 | -3.2   | 106   | 0.00     |
| 18 T  | Methyl Acetate              | 0.132 | 0.142 | -7.6   | 116   | 0.01     |
| 19 T  | Methyl tert-butyl Ether     | 0.731 | 0.761 | -4.1   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.551 | 0.560 | -1.6   | 109   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.542 | 0.561 | -3.5   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.744 | 1.828 | -4.8   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.868 | 0.922 | -6.2   | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.894 | 0.901 | -0.8   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.129 | 0.133 | -3.1   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.695 | 0.726 | -4.5   | 104   | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 0.564 | 0.586 | -3.9   | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 0.395 | 0.401 | -1.5   | 104   | 0.00     |
| 29    | Tetrahydrofuran             | 0.068 | 0.071 | -4.4   | 104   | 0.01     |
| 30 C  | Chloroform                  | 0.894 | 0.916 | -2.5#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 0.855 | 0.838 | 2.0    | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.753 | 0.785 | -4.2   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.358 | 0.365 | -2.0   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.373 | 0.387 | -3.8   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.494 | 0.513 | -3.8   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.227 | 0.261 | -15.0  | 109   | 0.01     |
| 38 T  | Carbon Tetrachloride        | 0.458 | 0.480 | -4.8   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.568 | 0.596 | -4.9   | 103   | 0.01     |
| 40 TM | Benzene                     | 1.261 | 1.319 | -4.6   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.260 | 0.284 | -9.2   | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.330 | 0.346 | -4.8   | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.286 | 0.312 | -9.1   | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.382 | 0.407 | -6.5   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.318 | 0.334 | -5.0#  | 100   | 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              | 0.186 | 0.201 | -8.1  | 103   | 0.01     |
| 47 T  | Bromodichloromethane        | 0.439 | 0.460 | -4.8  | 98    | 0.01     |
| 48 T  | Methyl methacrylate         | 0.173 | 0.189 | -9.2  | 104   | 0.01     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 1.091 | 1.139 | -4.4  | 98    | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.186 | 0.194 | -4.3  | 102   | 0.00     |
| 52 CM | Toluene                     | 0.805 | 0.857 | -6.5# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.371 | 0.406 | -9.4  | 102   | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 0.476 | 0.518 | -8.8  | 103   | 0.01     |
| 55 T  | 1,1,2-Trichloroethane       | 0.233 | 0.242 | -3.9  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.215 | 0.238 | -10.7 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.356 | 0.366 | -2.8  | 99    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.130 | 0.132 | -1.5  | 98    | 0.01     |
| 59 T  | 2-Hexanone                  | 0.132 | 0.149 | -12.9 | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.284 | 0.313 | -10.2 | 101   | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 0.234 | 0.251 | -7.3  | 101   | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 0.395 | 0.410 | -3.8  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.446 | 0.480 | -7.6  | 100   | 0.01     |
| 65 PM | Chlorobenzene               | 1.083 | 1.167 | -7.8  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.354 | 0.389 | -9.9  | 102   | 0.01     |
| 67 C  | Ethyl Benzene               | 1.853 | 1.940 | -4.7# | 101   | 0.01     |
| 68 T  | m/p-Xylenes                 | 0.684 | 0.751 | -9.8  | 102   | 0.01     |
| 69 T  | o-Xylene                    | 0.660 | 0.720 | -9.1  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.067 | 1.186 | -11.2 | 105   | 0.00     |
| 71 P  | Bromoform                   | 0.238 | 0.279 | -17.2 | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.643 | 3.788 | -4.0  | 105   | 0.01     |
| 74 T  | N-amyl acetate              | 0.934 | 1.047 | -12.1 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.596 | 0.638 | -7.0  | 103   | 0.01     |
| 76 T  | 1,2,3-Trichloropropane      | 0.598 | 0.648 | -8.4  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.968 | 1.005 | -3.8  | 102   | 0.01     |
| 78 T  | n-propylbenzene             | 4.547 | 4.731 | -4.0  | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.490 | 2.609 | -4.8  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.831 | 2.943 | -4.0  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.170 | 0.188 | -10.6 | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.797 | 2.888 | -3.3  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.143 | 3.367 | -7.1  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.827 | 2.994 | -5.9  | 102   | 0.01     |
| 85 T  | sec-Butylbenzene            | 3.856 | 3.896 | -1.0  | 98    | 0.01     |
| 86 T  | p-Isopropyltoluene          | 3.105 | 3.271 | -5.3  | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.722 | 1.827 | -6.1  | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.681 | 1.759 | -4.6  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.168 | 3.183 | -0.5  | 99    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.736 | 0.795 | -8.0 | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.414 | 1.461 | -3.3 | 100   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.072 | 0.077 | -6.9 | 98    | 0.01     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.121 | 1.193 | -6.4 | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.839 | 0.852 | -1.5 | 96    | 0.00     |
| 95 T | Naphthalene                 | 1.369 | 1.472 | -7.5 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.898 | 0.960 | -6.9 | 102   | 0.00     |

(#) = Out of Range

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