

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071020\  
 Data File : VY003162.D  
 Acq On : 10 Jul 2020 13:53  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY071020

Quant Time: Jul 11 06:13:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.358 | 0.327 | 8.7   | 110   | 0.00     |
| 3 P   | Chloromethane               | 0.497 | 0.477 | 4.0   | 112   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.510 | 0.497 | 2.5#  | 111   | 0.00     |
| 5 T   | Bromomethane                | 0.379 | 0.384 | -1.3  | 120   | 0.00     |
| 6 T   | Chloroethane                | 0.335 | 0.324 | 3.3   | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.728 | 0.707 | 2.9   | 109   | 0.00     |
| 8 T   | Diethyl Ether               | 0.244 | 0.244 | 0.0   | 112   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.440 | 0.438 | 0.5   | 112   | 0.00     |
| 10 T  | Methyl Iodide               | 0.478 | 0.495 | -3.6  | 108   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.046 | 0.043 | 6.5   | 111   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.416 | 0.414 | 0.5#  | 112   | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.036 | 10.0  | 107   | 0.00     |
| 14 T  | Allyl chloride              | 0.617 | 0.627 | -1.6  | 111   | 0.00     |
| 15 T  | Acrylonitrile               | 0.117 | 0.119 | -1.7  | 112   | 0.00     |
| 16 T  | Acetone                     | 0.094 | 0.104 | -10.6 | 119   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.277 | 1.269 | 0.6   | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 0.262 | 0.263 | -0.4  | 114   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.166 | 1.185 | -1.6  | 112   | 0.00     |
| 20 T  | Methylene Chloride          | 0.560 | 0.476 | 15.0  | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.471 | 0.472 | -0.2  | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.370 | 1.425 | -4.0  | 112   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.913 | 0.957 | -4.8  | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.794 | 0.796 | -0.3  | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 0.155 | 0.160 | -3.2  | 114   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.715 | 0.727 | -1.7  | 112   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.518 | 0.524 | -1.2  | 111   | 0.00     |
| 28 T  | Bromochloromethane          | 0.344 | 0.319 | 7.3   | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.104 | 0.106 | -1.9  | 112   | 0.00     |
| 30 C  | Chloroform                  | 0.818 | 0.824 | -0.7# | 111   | 0.00     |
| 31 T  | Cyclohexane                 | 0.768 | 0.739 | 3.8   | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.736 | 0.737 | -0.1  | 111   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.422 | 0.410 | 2.8   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.288 | 0.282 | 2.1   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.456 | -0.7  | 111   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.244 | 0.262 | -7.4  | 116   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.468 | 0.467 | 0.2   | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.569 | 0.574 | -0.9  | 111   | 0.00     |
| 40 TM | Benzene                     | 1.248 | 1.257 | -0.7  | 111   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.147 | 0.128 | 12.9  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.384 | 0.388 | -1.0  | 111   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.472 | 0.491 | -4.0  | 113   | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.388 | -1.3  | 112   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.323 | 0.328 | -1.5# | 111   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.189 | 0.194 | -2.6  | 112   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.448 | 0.456 | -1.8  | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.211 | 0.221 | -4.7  | 113   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 110   | 0.01     |
| 50 S  | Toluene-d8                  | 1.070 | 1.027 | 4.0   | 106   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.246 | 0.259 | -5.3  | 114   | 0.00     |
| 52 CM | Toluene                     | 0.798 | 0.807 | -1.1# | 111   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.465 | 0.487 | -4.7  | 112   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.535 | 0.549 | -2.6  | 112   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.267 | 0.269 | -0.7  | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.363 | 0.390 | -7.4  | 113   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.453 | 0.462 | -2.0  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.185 | 0.181 | 2.2   | 105   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.171 | 0.183 | -7.0  | 115   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.336 | 0.343 | -2.1  | 111   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.264 | 0.267 | -1.1  | 112   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.386 | 0.372 | 3.6   | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.446 | 0.453 | -1.6  | 112   | 0.00     |
| 65 PM | Chlorobenzene               | 0.963 | 0.981 | -1.9  | 111   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.382 | -2.1  | 111   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.720 | 1.772 | -3.0# | 111   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.653 | 0.671 | -2.8  | 111   | 0.00     |
| 69 T  | o-Xylene                    | 0.610 | 0.630 | -3.3  | 111   | 0.00     |
| 70 T  | Styrene                     | 1.043 | 1.080 | -3.5  | 110   | 0.00     |
| 71 P  | Bromoform                   | 0.246 | 0.258 | -4.9  | 111   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.186 | 3.263 | -2.4  | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 0.894 | 0.975 | -9.1  | 114   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.615 | 0.637 | -3.6  | 112   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.443 | 0.475 | -7.2  | 117   | 0.00     |
| 77 T  | Bromobenzene                | 0.812 | 0.831 | -2.3  | 111   | 0.00     |
| 78 T  | n-propylbenzene             | 3.756 | 3.884 | -3.4  | 111   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.096 | 2.148 | -2.5  | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.656 | 2.717 | -2.3  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.227 | 0.242 | -6.6  | 113   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.187 | 2.258 | -3.2  | 111   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.343 | 2.386 | -1.8  | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.672 | 2.734 | -2.3  | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.221 | 3.287 | -2.0  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.007 | 3.053 | -1.5  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.536 | 1.554 | -1.2  | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.521 | 1.551 | -2.0  | 111   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.829 | 2.863 | -1.2  | 107   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.548 | 0.556 | -1.5 | 107   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.348 | 1.391 | -3.2 | 111   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.100 | 0.103 | -3.0 | 113   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.959 | 0.981 | -2.3 | 111   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.657 | 0.635 | 3.3  | 106   | 0.00     |
| 95 T | Naphthalene                 | 1.585 | 1.711 | -7.9 | 117   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.758 | 0.783 | -3.3 | 113   | 0.00     |

(#) = Out of Range

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