

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv070620\  
 Data File : VY003115.D  
 Acq On : 06 Jul 2020 16:54  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 07 08:31:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.379 | 0.328 | 13.5  | 78    | 0.00     |
| 3 P   | Chloromethane               | 0.555 | 0.477 | 14.1  | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.541 | 0.492 | 9.1#  | 82    | 0.00     |
| 5 T   | Bromomethane                | 0.367 | 0.341 | 7.1   | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.344 | 0.341 | 0.9   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.763 | 0.728 | 4.6   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.262 | 0.260 | 0.8   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.456 | 0.444 | 2.6   | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 0.565 | 0.580 | -2.7  | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.051 | 0.048 | 5.9   | 86    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.434 | 0.427 | 1.6#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.045 | 0.033 | 26.7# | 70    | 0.00     |
| 14 T  | Allyl chloride              | 0.757 | 0.625 | 17.4  | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 0.135 | 0.130 | 3.7   | 85    | 0.00     |
| 16 T  | Acetone                     | 0.117 | 0.099 | 15.4  | 72    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.386 | 1.227 | 11.5  | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 0.316 | 0.289 | 8.5   | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.264 | 1.280 | -1.3  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.654 | 0.509 | 22.2  | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.491 | 0.483 | 1.6   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.623 | 1.464 | 9.8   | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.085 | 1.010 | 6.9   | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.887 | 0.828 | 6.7   | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 0.186 | 0.168 | 9.7   | 79    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.806 | 0.741 | 8.1   | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.550 | 0.549 | 0.2   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.394 | 0.381 | 3.3   | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.124 | 0.117 | 5.6   | 82    | 0.00     |
| 30 C  | Chloroform                  | 0.878 | 0.872 | 0.7#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.873 | 0.726 | 16.8  | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.802 | 0.769 | 4.1   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.497 | 0.486 | 2.2   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.312 | 0.326 | -4.5  | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.482 | 0.454 | 5.8   | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.290 | 0.280 | 3.4   | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.501 | 0.484 | 3.4   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.597 | 0.564 | 5.5   | 84    | 0.00     |
| 40 TM | Benzene                     | 1.319 | 1.287 | 2.4   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.155 | 0.164 | -5.8  | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.417 | 0.410 | 1.7   | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.551 | 0.528 | 4.2   | 83    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.403 | -5.2  | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.355 | 0.333 | 6.2#  | 85    | 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.198 | 0.207 | -4.5   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.485 | 0.484 | 0.2    | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.251 | 0.240 | 4.4    | 83    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 1.162 | 1.173 | -0.9   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.285 | 0.282 | 1.1    | 86    | 0.00     |
| 52 CM | Toluene                     | 0.830 | 0.825 | 0.6#   | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.509 | 0.513 | -0.8   | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.582 | 0.573 | 1.5    | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.275 | 0.296 | -7.6   | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.399 | 0.419 | -5.0   | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.483 | 0.498 | -3.1   | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.204 | 0.216 | -5.9   | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.199 | 0.198 | 0.5    | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.352 | 0.377 | -7.1   | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.271 | 0.294 | -8.5   | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.409 | 0.419 | -2.4   | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.423 | 0.479 | -13.2  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 0.986 | 1.002 | -1.6   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.393 | -2.1   | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.804 | 1.785 | 1.1#   | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.671 | 0.672 | -0.1   | 91    | 0.00     |
| 69 T  | o-Xylene                    | 0.633 | 0.641 | -1.3   | 92    | 0.00     |
| 70 T  | Styrene                     | 1.081 | 1.117 | -3.3   | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.257 | 0.285 | -10.9  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.272 | 3.281 | -0.3   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 1.065 | 1.024 | 3.8    | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.660 | 0.663 | -0.5   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.495 | 0.513 | -3.6   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.839 | 0.866 | -3.2   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 3.935 | 3.849 | 2.2    | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.197 | 2.171 | 1.2    | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.746 | 2.736 | 0.4    | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.254 | 0.264 | -3.9   | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.287 | 2.256 | 1.4    | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.411 | 2.407 | 0.2    | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.767 | 2.764 | 0.1    | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.323 | 3.310 | 0.4    | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.079 | 3.079 | 0.0    | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.566 | 1.598 | -2.0   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.545 | 1.586 | -2.7   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.946 | 2.880 | 2.2    | 88    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.611 | 0.558 | 8.7  | 83    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.405 | 1.454 | -3.5 | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.117 | 0.121 | -3.4 | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.044 | 1.065 | -2.0 | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.659 | 0.643 | 2.4  | 89    | 0.00     |
| 95 T | Naphthalene                 | 1.907 | 2.073 | -8.7 | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.907 | 0.919 | -1.3 | 90    | 0.00     |

(#) = Out of Range

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