

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv030920\  
 Data File : VY001916.D  
 Acq On : 09 Mar 2020 18:16  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 10 12:23:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 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   | 93    | -0.02    |
| 2 T   | Dichlorodifluoromethane     | 0.462 | 0.397 | 14.1  | 82    | 0.00     |
| 3 P   | Chloromethane               | 0.622 | 0.582 | 6.4   | 88    | -0.01    |
| 4 C   | Vinyl Chloride              | 0.633 | 0.592 | 6.5#  | 85    | -0.01    |
| 5 T   | Bromomethane                | 0.420 | 0.395 | 6.0   | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.398 | 0.384 | 3.5   | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.858 | 0.798 | 7.0   | 87    | -0.01    |
| 8 T   | Diethyl Ether               | 0.338 | 0.334 | 1.2   | 90    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.552 | 0.532 | 3.6   | 90    | -0.01    |
| 10 T  | Methyl Iodide               | 0.638 | 0.614 | 3.8   | 81    | -0.02    |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.050 | 23.1  | 81    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.556 | 0.526 | 5.4#  | 86    | -0.02    |
| 13 T  | Acrolein                    | 0.075 | 0.057 | 24.0  | 77    | -0.01    |
| 14 T  | Allyl chloride              | 0.986 | 0.982 | 0.4   | 90    | -0.02    |
| 15 T  | Acrylonitrile               | 0.181 | 0.168 | 7.2   | 84    | -0.02    |
| 16 T  | Acetone                     | 0.155 | 0.127 | 18.1  | 73    | -0.01    |
| 17 T  | Carbon Disulfide            | 1.869 | 1.726 | 7.7   | 84    | -0.02    |
| 18 T  | Methyl Acetate              | 0.399 | 0.361 | 9.5   | 82    | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 1.506 | 1.475 | 2.1   | 88    | -0.02    |
| 20 T  | Methylene Chloride          | 0.666 | 0.643 | 3.5   | 93    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 0.631 | 0.613 | 2.9   | 89    | -0.02    |
| 22 T  | Diisopropyl ether           | 2.020 | 2.060 | -2.0  | 93    | -0.02    |
| 23 T  | Vinyl Acetate               | 1.324 | 1.301 | 1.7   | 88    | -0.02    |
| 24 P  | 1,1-Dichloroethane          | 1.094 | 1.089 | 0.5   | 91    | -0.02    |
| 25 T  | 2-Butanone                  | 0.236 | 0.208 | 11.9  | 79    | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 0.898 | 0.870 | 3.1   | 90    | -0.02    |
| 27 T  | cis-1,2-Dichloroethene      | 0.686 | 0.683 | 0.4   | 90    | -0.02    |
| 28 T  | Bromochloromethane          | 0.493 | 0.532 | -7.9  | 97    | -0.02    |
| 29 T  | Tetrahydrofuran             | 0.157 | 0.142 | 9.6   | 83    | -0.02    |
| 30 C  | Chloroform                  | 1.028 | 1.029 | -0.1# | 91    | -0.02    |
| 31 T  | Cyclohexane                 | 1.173 | 1.089 | 7.2   | 89    | -0.02    |
| 32 T  | 1,1,1-Trichloroethane       | 0.866 | 0.868 | -0.2  | 90    | -0.02    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.534 | 0.547 | -2.4  | 99    | -0.02    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | -0.02    |
| 35 S  | Dibromofluoromethane        | 0.273 | 0.279 | -2.2  | 99    | -0.02    |
| 36 T  | 1,1-Dichloropropene         | 0.481 | 0.459 | 4.6   | 88    | -0.02    |
| 37 T  | Ethyl Acetate               | 0.280 | 0.261 | 6.8   | 84    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.411 | 0.399 | 2.9   | 90    | -0.02    |
| 39 T  | Methylcyclohexane           | 0.638 | 0.605 | 5.2   | 89    | -0.02    |
| 40 TM | Benzene                     | 1.426 | 1.386 | 2.8   | 90    | -0.02    |
| 41 T  | Methacrylonitrile           | 0.126 | 0.119 | 5.6   | 90    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.367 | 0.359 | 2.2   | 89    | -0.01    |
| 43 T  | Isopropyl Acetate           | 0.529 | 0.494 | 6.6   | 85    | -0.02    |
| 44 TM | Trichloroethene             | 0.347 | 0.339 | 2.3   | 91    | -0.02    |
| 45 C  | 1,2-Dichloropropane         | 0.359 | 0.355 | 1.1#  | 91    | -0.01    |

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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              | 0.185 | 0.177 | 4.3   | 89    | -0.02    |
| 47 T  | Bromodichloromethane        | 0.430 | 0.429 | 0.2   | 91    | -0.02    |
| 48 T  | Methyl methacrylate         | 0.235 | 0.221 | 6.0   | 82    | -0.01    |
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.002 | 33.3# | 79    | -0.02    |
| 50 S  | Toluene-d8                  | 1.151 | 1.165 | -1.2  | 98    | -0.01    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.273 | 0.256 | 6.2   | 85    | -0.01    |
| 52 CM | Toluene                     | 0.866 | 0.850 | 1.8#  | 91    | -0.01    |
| 53 T  | t-1,3-Dichloropropene       | 0.468 | 0.462 | 1.3   | 88    | -0.01    |
| 54 T  | cis-1,3-Dichloropropene     | 0.557 | 0.548 | 1.6   | 89    | -0.01    |
| 55 T  | 1,1,2-Trichloroethane       | 0.270 | 0.263 | 2.6   | 89    | -0.01    |
| 56 T  | Ethyl methacrylate          | 0.396 | 0.388 | 2.0   | 87    | -0.01    |
| 57 T  | 1,3-Dichloropropane         | 0.482 | 0.461 | 4.4   | 89    | -0.01    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.157 | 0.126 | 19.7  | 86    | -0.01    |
| 59 T  | 2-Hexanone                  | 0.195 | 0.174 | 10.8  | 81    | -0.01    |
| 60 T  | Dibromochloromethane        | 0.285 | 0.282 | 1.1   | 89    | -0.01    |
| 61 T  | 1,2-Dibromoethane           | 0.256 | 0.243 | 5.1   | 88    | -0.01    |
| 62 S  | 4-Bromofluorobenzene        | 0.400 | 0.400 | 0.0   | 97    | -0.01    |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | -0.01    |
| 64 T  | Tetrachloroethene           | 0.314 | 0.300 | 4.5   | 91    | -0.01    |
| 65 PM | Chlorobenzene               | 0.996 | 0.962 | 3.4   | 89    | -0.01    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.327 | 0.326 | 0.3   | 91    | -0.01    |
| 67 C  | Ethyl Benzene               | 1.858 | 1.807 | 2.7#  | 90    | -0.01    |
| 68 T  | m/p-Xylenes                 | 0.687 | 0.671 | 2.3   | 89    | -0.01    |
| 69 T  | o-Xylene                    | 0.647 | 0.642 | 0.8   | 91    | -0.01    |
| 70 T  | Styrene                     | 1.109 | 1.108 | 0.1   | 90    | -0.01    |
| 71 P  | Bromoform                   | 0.177 | 0.171 | 3.4   | 84    | -0.02    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | -0.01    |
| 73 T  | Isopropylbenzene            | 3.817 | 3.789 | 0.7   | 89    | -0.01    |
| 74 T  | N-amyl acetate              | 1.173 | 1.120 | 4.5   | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.823 | 0.782 | 5.0   | 85    | -0.01    |
| 76 T  | 1,2,3-Trichloropropane      | 0.593 | 0.539 | 9.1   | 88    | -0.01    |
| 77 T  | Bromobenzene                | 0.809 | 0.796 | 1.6   | 90    | -0.01    |
| 78 T  | n-propylbenzene             | 4.709 | 4.694 | 0.3   | 90    | -0.01    |
| 79 T  | 2-Chlorotoluene             | 2.602 | 2.588 | 0.5   | 90    | -0.01    |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.142 | 3.149 | -0.2  | 91    | -0.01    |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.294 | 0.279 | 5.1   | 83    | -0.01    |
| 82 T  | 4-Chlorotoluene             | 2.709 | 2.671 | 1.4   | 89    | -0.01    |
| 83 T  | tert-Butylbenzene           | 2.610 | 2.652 | -1.6  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.118 | 3.118 | 0.0   | 90    | -0.01    |
| 85 T  | sec-Butylbenzene            | 3.847 | 3.839 | 0.2   | 90    | -0.01    |
| 86 T  | p-Isopropyltoluene          | 3.318 | 3.321 | -0.1  | 90    | -0.01    |
| 87 T  | 1,3-Dichlorobenzene         | 1.585 | 1.556 | 1.8   | 89    | -0.01    |
| 88 T  | 1,4-Dichlorobenzene         | 1.608 | 1.564 | 2.7   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.443 | 3.415 | 0.8   | 90    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.626 | 0.633 | -1.1 | 91    | -0.01    |
| 91 T | 1,2-Dichlorobenzene         | 1.440 | 1.418 | 1.5  | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.118 | 7.8  | 85    | -0.01    |
| 93 T | 1,2,4-Trichlorobenzene      | 0.934 | 0.901 | 3.5  | 88    | -0.01    |
| 94 T | Hexachlorobutadiene         | 0.455 | 0.440 | 3.3  | 90    | -0.01    |
| 95 T | Naphthalene                 | 2.215 | 2.089 | 5.7  | 86    | -0.01    |
| 96 T | 1,2,3-Trichlorobenzene      | 0.822 | 0.794 | 3.4  | 88    | -0.01    |

(#) = Out of Range

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