

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\VY042320\  
 Data File : VY002460.D  
 Acq On : 23 Apr 2020 14:57  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY042320

Quant Time: Apr 24 02:35:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y042320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 23 14:11:26 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    | 108   | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 0.366 | 0.415 | -13.4  | 125   | 0.00     |
| 3 P   | Chloromethane               | 0.466 | 0.492 | -5.6   | 117   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.335 | 0.440 | -31.3# | 170#  | 0.00     |
| 5 T   | Bromomethane                | 0.188 | 0.186 | 1.1    | 117   | 0.00     |
| 6 T   | Chloroethane                | 0.176 | 0.164 | 6.8    | 111   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.607 | 0.643 | -5.9   | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 0.250 | 0.269 | -7.6   | 115   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.418 | 0.454 | -8.6   | 112   | 0.00     |
| 10 T  | Methyl Iodide               | 0.644 | 0.691 | -7.3   | 113   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.041 | 0.044 | -7.3   | 137   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.428 | 0.460 | -7.5#  | 113   | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.037 | -12.1  | 118   | 0.00     |
| 14 T  | Allyl chloride              | 0.629 | 0.662 | -5.2   | 116   | 0.00     |
| 15 T  | Acrylonitrile               | 0.120 | 0.127 | -5.8   | 122   | -0.01    |
| 16 T  | Acetone                     | 0.091 | 0.117 | -28.6# | 143   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.335 | 1.398 | -4.7   | 112   | -0.01    |
| 18 T  | Methyl Acetate              | 0.294 | 0.294 | 0.0    | 121   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.155 | 1.218 | -5.5   | 118   | -0.02    |
| 20 T  | Methylene Chloride          | 0.521 | 0.491 | 5.8    | 116   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.482 | 0.493 | -2.3   | 113   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.244 | 1.263 | -1.5   | 116   | -0.01    |
| 23 T  | Vinyl Acetate               | 0.790 | 0.840 | -6.3   | 120   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.753 | 0.772 | -2.5   | 112   | 0.00     |
| 25 T  | 2-Butanone                  | 0.140 | 0.156 | -11.4  | 134   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.720 | 0.751 | -4.3   | 114   | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 0.524 | 0.545 | -4.0   | 115   | -0.01    |
| 28 T  | Bromochloromethane          | 0.294 | 0.278 | 5.4    | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.093 | 0.099 | -6.5   | 127   | 0.00     |
| 30 C  | Chloroform                  | 0.802 | 0.819 | -2.1#  | 113   | -0.01    |
| 31 T  | Cyclohexane                 | 0.753 | 0.731 | 2.9    | 114   | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 0.758 | 0.788 | -4.0   | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.437 | 0.402 | 8.0    | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 110   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.282 | 0.266 | 5.7    | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.429 | 0.438 | -2.1   | 114   | -0.01    |
| 37 T  | Ethyl Acetate               | 0.215 | 0.222 | -3.3   | 124   | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.493 | 0.504 | -2.2   | 112   | -0.01    |
| 39 T  | Methylcyclohexane           | 0.559 | 0.581 | -3.9   | 113   | 0.00     |
| 40 TM | Benzene                     | 1.239 | 1.261 | -1.8   | 114   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.133 | 0.126 | 5.3    | 112   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.360 | 0.364 | -1.1   | 114   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.403 | 0.427 | -6.0   | 125   | 0.00     |
| 44 TM | Trichloroethene             | 0.387 | 0.395 | -2.1   | 113   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.286 | 0.293 | -2.4#  | 115   | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.167 | 0.173 | -3.6  | 116   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.418 | 0.428 | -2.4  | 113   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.184 | 0.199 | -8.2  | 125   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 1.134 | 1.036 | 8.6   | 109   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.209 | 0.224 | -7.2  | 127   | 0.00     |
| 52 CM | Toluene                     | 0.798 | 0.808 | -1.3# | 113   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.439 | 0.461 | -5.0  | 117   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.502 | 0.519 | -3.4  | 115   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.247 | 0.253 | -2.4  | 119   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.338 | 0.353 | -4.4  | 120   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.417 | 0.428 | -2.6  | 119   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.163 | 0.160 | 1.8   | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.146 | 0.159 | -8.9  | 131   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.324 | 0.335 | -3.4  | 116   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.245 | 0.249 | -1.6  | 118   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.380 | 0.345 | 9.2   | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.458 | 0.471 | -2.8  | 113   | 0.00     |
| 65 PM | Chlorobenzene               | 0.964 | 1.004 | -4.1  | 114   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.362 | 0.382 | -5.5  | 114   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.718 | 1.792 | -4.3# | 113   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.661 | 0.685 | -3.6  | 113   | 0.00     |
| 69 T  | o-Xylene                    | 0.612 | 0.648 | -5.9  | 114   | 0.00     |
| 70 T  | Styrene                     | 1.066 | 1.127 | -5.7  | 114   | 0.00     |
| 71 P  | Bromoform                   | 0.228 | 0.245 | -7.5  | 120   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.343 | 3.411 | -2.0  | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 0.792 | 0.857 | -8.2  | 122   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.513 | 0.560 | -9.2  | 128   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.424 | 0.429 | -1.2  | 112   | 0.00     |
| 77 T  | Bromobenzene                | 0.838 | 0.871 | -3.9  | 115   | 0.00     |
| 78 T  | n-propylbenzene             | 3.881 | 4.058 | -4.6  | 112   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.124 | 2.200 | -3.6  | 112   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.837 | 2.935 | -3.5  | 111   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.229 | 0.249 | -8.7  | 122   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.195 | 2.288 | -4.2  | 112   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.464 | 2.588 | -5.0  | 111   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.722 | 2.931 | -7.7  | 111   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.299 | 3.190 | 3.3   | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.146 | 3.328 | -5.8  | 110   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.551 | 1.614 | -4.1  | 110   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.542 | 1.609 | -4.3  | 111   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.902 | 3.011 | -3.8  | 109   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.569 | 0.590 | -3.7 | 111   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.335 | 1.462 | -9.5 | 111   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.102 | 0.108 | -5.9 | 124   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.054 | 1.092 | -3.6 | 113   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.636 | 0.648 | -1.9 | 108   | 0.00     |
| 95 T | Naphthalene                 | 1.955 | 2.096 | -7.2 | 120   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.894 | 0.945 | -5.7 | 115   | 0.00     |

(#) = Out of Range

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