

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv051320\  
 Data File : VY002689.D  
 Acq On : 13 May 2020 16:53  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 14 08:17:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.380 | 0.380 | 0.0   | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.405 | 0.388 | 4.2   | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.468 | 0.470 | -0.4# | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.323 | 0.290 | 10.2  | 78    | 0.00     |
| 6 T   | Chloroethane                | 0.279 | 0.272 | 2.5   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.725 | 0.713 | 1.7   | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.244 | 0.175 | 28.3# | 61    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.443 | 0.441 | 0.5   | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.604 | 0.537 | 11.1  | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.043 | 0.018 | 58.1# | 38#   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.430 | 0.428 | 0.5#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.030 | 0.010 | 66.7# | 26#   | 0.00     |
| 14 T  | Allyl chloride              | 0.627 | 0.583 | 7.0   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 0.115 | 0.061 | 47.0# | 45#   | -0.02    |
| 16 T  | Acetone                     | 0.087 | 0.040 | 54.0# | 39#   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.295 | 1.262 | 2.5   | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 0.290 | 0.145 | 50.0# | 44#   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.123 | 0.764 | 32.0# | 58    | -0.01    |
| 20 T  | Methylene Chloride          | 0.485 | 0.388 | 20.0  | 73    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.470 | 0.465 | 1.1   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.269 | 1.097 | 13.6  | 74    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.798 | 0.516 | 35.3# | 54    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 0.751 | 0.712 | 5.2   | 80    | -0.01    |
| 25 T  | 2-Butanone                  | 0.142 | 0.070 | 50.7# | 42#   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.714 | 0.659 | 7.7   | 82    | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 0.521 | 0.482 | 7.5   | 80    | -0.01    |
| 28 T  | Bromochloromethane          | 0.308 | 0.254 | 17.5  | 73    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.094 | 0.048 | 48.9# | 43#   | 0.00     |
| 30 C  | Chloroform                  | 0.781 | 0.709 | 9.2#  | 78    | -0.01    |
| 31 T  | Cyclohexane                 | 0.756 | 0.719 | 4.9   | 85    | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 0.726 | 0.705 | 2.9   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.420 | 0.284 | 32.4# | 60    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.286 | 0.255 | 10.8  | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.419 | 0.433 | -3.3  | 85    | -0.01    |
| 37 T  | Ethyl Acetate               | 0.215 | 0.120 | 44.2# | 46#   | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.458 | 0.467 | -2.0  | 84    | -0.01    |
| 39 T  | Methylcyclohexane           | 0.554 | 0.579 | -4.5  | 86    | -0.01    |
| 40 TM | Benzene                     | 1.211 | 1.190 | 1.7   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.116 | 0.079 | 31.9# | 49#   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.340 | 0.244 | 28.2# | 58    | -0.01    |
| 43 T  | Isopropyl Acetate           | 0.404 | 0.237 | 41.3# | 48#   | -0.01    |
| 44 TM | Trichloroethene             | 0.378 | 0.382 | -1.1  | 84    | -0.01    |
| 45 C  | 1,2-Dichloropropane         | 0.292 | 0.263 | 9.9#  | 75    | 0.00     |

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 Quant Title : SW846 8260  
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 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.168 | 0.118 | 29.8# | 57    | -0.01    |
| 47 T  | Bromodichloromethane        | 0.409 | 0.349 | 14.7  | 70    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.183 | 0.112 | 38.8# | 49#   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.001 | 50.0# | 45#   | 0.00     |
| 50 S  | Toluene-d8                  | 1.117 | 1.081 | 3.2   | 84    | -0.01    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.208 | 0.117 | 43.7# | 45#   | -0.01    |
| 52 CM | Toluene                     | 0.778 | 0.775 | 0.4#  | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.428 | 0.321 | 25.0  | 61    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.495 | 0.413 | 16.6  | 69    | -0.01    |
| 55 T  | 1,1,2-Trichloroethane       | 0.245 | 0.176 | 28.2# | 59    | -0.01    |
| 56 T  | Ethyl methacrylate          | 0.326 | 0.220 | 32.5# | 54    | -0.01    |
| 57 T  | 1,3-Dichloropropane         | 0.416 | 0.301 | 27.6# | 59    | -0.01    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.172 | 0.115 | 33.1# | 59    | -0.01    |
| 59 T  | 2-Hexanone                  | 0.143 | 0.078 | 45.5# | 42#   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.312 | 0.236 | 24.4  | 62    | -0.01    |
| 61 T  | 1,2-Dibromoethane           | 0.243 | 0.162 | 33.3# | 55    | -0.01    |
| 62 S  | 4-Bromofluorobenzene        | 0.379 | 0.332 | 12.4  | 77    | -0.01    |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.444 | 0.498 | -12.2 | 87    | -0.01    |
| 65 PM | Chlorobenzene               | 0.950 | 0.953 | -0.3  | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.353 | 0.337 | 4.5   | 74    | -0.01    |
| 67 C  | Ethyl Benzene               | 1.670 | 1.788 | -7.1# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.646 | 0.689 | -6.7  | 82    | -0.01    |
| 69 T  | o-Xylene                    | 0.605 | 0.630 | -4.1  | 81    | 0.00     |
| 70 T  | Styrene                     | 1.034 | 1.029 | 0.5   | 76    | 0.00     |
| 71 P  | Bromoform                   | 0.219 | 0.155 | 29.2# | 53    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 77    | -0.01    |
| 73 T  | Isopropylbenzene            | 3.240 | 3.720 | -14.8 | 85    | -0.01    |
| 74 T  | N-amyl acetate              | 0.780 | 0.553 | 29.1# | 50#   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.515 | 0.338 | 34.4# | 47#   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.444 | 0.292 | 34.2# | 46#   | 0.00     |
| 77 T  | Bromobenzene                | 0.810 | 0.779 | 3.8   | 71    | 0.00     |
| 78 T  | n-propylbenzene             | 3.761 | 4.291 | -14.1 | 84    | -0.01    |
| 79 T  | 2-Chlorotoluene             | 2.083 | 2.256 | -8.3  | 81    | -0.01    |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.686 | 3.023 | -12.5 | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.222 | 0.142 | 36.0# | 46#   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.188 | 2.289 | -4.6  | 78    | -0.01    |
| 83 T  | tert-Butylbenzene           | 2.355 | 2.697 | -14.5 | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.677 | 2.891 | -8.0  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.268 | 3.783 | -15.8 | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.062 | 3.468 | -13.3 | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.532 | 1.551 | -1.2  | 76    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.517 | 1.498 | 1.3   | 73    | -0.01    |
| 89 T  | n-Butylbenzene              | 2.788 | 3.166 | -13.6 | 84    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.558 | 0.640 | -14.7 | 85    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.367 | 1.282 | 6.2   | 69    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.096 | 0.053 | 44.8# | 40#   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.993 | 0.881 | 11.3  | 66    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.596 | 0.662 | -11.1 | 83    | 0.00     |
| 95 T | Naphthalene                 | 1.811 | 1.180 | 34.8# | 47#   | -0.01    |
| 96 T | 1,2,3-Trichlorobenzene      | 0.843 | 0.665 | 21.1  | 58    | 0.00     |

(#) = Out of Range

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