

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX061119\  
 Data File : VX010237.D  
 Acq On : 11 Jun 2019 17:12  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 12 08:44:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.460 | 0.442 | 3.9   | 70    | 0.00     |
| 3 P   | Chloromethane               | 0.457 | 0.402 | 12.0  | 69    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.429 | 0.425 | 0.9#  | 78    | 0.00     |
| 5 T   | Bromomethane                | 0.162 | 0.179 | -10.5 | 87    | 0.00     |
| 6 T   | Chloroethane                | 0.217 | 0.251 | -15.7 | 82    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.638 | 0.678 | -6.3  | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 0.220 | 0.230 | -4.5  | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.440 | 0.402 | 8.6   | 74    | 0.00     |
| 10 T  | Methyl Iodide               | 0.681 | 0.616 | 9.5   | 69    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.106 | 11.7  | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.449 | 0.388 | 13.6# | 70    | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.022 | 0.0   | 73    | 0.00     |
| 14 T  | Allyl chloride              | 0.678 | 0.566 | 16.5  | 68    | 0.00     |
| 15 T  | Acrylonitrile               | 0.244 | 0.215 | 11.9  | 70    | 0.00     |
| 16 T  | Acetone                     | 0.230 | 0.209 | 9.1   | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.298 | 1.002 | 22.8# | 64    | 0.00     |
| 18 T  | Methyl Acetate              | 0.505 | 0.438 | 13.3  | 72    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.443 | 1.242 | 13.9  | 70    | 0.00     |
| 20 T  | Methylene Chloride          | 0.504 | 0.431 | 14.5  | 70    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.497 | 0.413 | 16.9  | 69    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.296 | 1.156 | 10.8  | 71    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.156 | 1.027 | 11.2  | 70    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.787 | 0.672 | 14.6  | 70    | 0.00     |
| 25 T  | 2-Butanone                  | 0.342 | 0.311 | 9.1   | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.718 | 0.612 | 14.8  | 69    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.553 | 0.488 | 11.8  | 71    | 0.00     |
| 28 T  | Bromochloromethane          | 0.353 | 0.311 | 11.9  | 72    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.215 | 0.189 | 12.1  | 71    | 0.00     |
| 30 C  | Chloroform                  | 0.817 | 0.716 | 12.4# | 70    | 0.00     |
| 31 T  | Cyclohexane                 | 0.710 | 0.630 | 11.3  | 70    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.768 | 0.649 | 15.5  | 70    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.488 | 0.395 | 19.1  | 65    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.272 | 11.7  | 67    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.408 | 0.368 | 9.8   | 71    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.424 | 0.377 | 11.1  | 69    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.462 | 0.412 | 10.8  | 70    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.555 | 0.509 | 8.3   | 72    | 0.00     |
| 40 TM | Benzene                     | 1.261 | 1.159 | 8.1   | 71    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.230 | 0.203 | 11.7  | 68    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.403 | 0.355 | 11.9  | 68    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.710 | 0.628 | 11.5  | 69    | 0.00     |
| 44 TM | Trichloroethene             | 0.380 | 0.353 | 7.1   | 73    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.316 | 0.288 | 8.9#  | 70    | 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 : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.237 | 0.208 | 12.2 | 71    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.442 | 0.395 | 10.6 | 69    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.332 | 0.295 | 11.1 | 67    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0  | 73    | 0.00     |
| 50 S  | Toluene-d8                  | 1.156 | 1.043 | 9.8  | 68    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.424 | 0.408 | 3.8  | 72    | 0.00     |
| 52 CM | Toluene                     | 0.829 | 0.768 | 7.4# | 72    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.511 | 0.448 | 12.3 | 67    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.548 | 0.483 | 11.9 | 68    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.340 | 0.319 | 6.2  | 72    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.536 | 0.495 | 7.6  | 70    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.535 | 0.491 | 8.2  | 71    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.253 | 0.231 | 8.7  | 68    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.338 | 0.325 | 3.8  | 72    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.402 | 0.369 | 8.2  | 70    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.378 | 0.347 | 8.2  | 71    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.432 | 0.393 | 9.0  | 69    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.353 | 4.9  | 77    | 0.00     |
| 65 PM | Chlorobenzene               | 1.032 | 0.959 | 7.1  | 73    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.397 | 0.361 | 9.1  | 71    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.757 | 1.630 | 7.2# | 72    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.641 | 5.7  | 74    | 0.00     |
| 69 T  | o-Xylene                    | 0.676 | 0.634 | 6.2  | 74    | 0.00     |
| 70 T  | Styrene                     | 1.145 | 1.101 | 3.8  | 74    | 0.00     |
| 71 P  | Bromoform                   | 0.365 | 0.344 | 5.8  | 73    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.490 | 3.073 | 11.9 | 75    | 0.00     |
| 74 T  | N-amyl acetate              | 1.380 | 1.189 | 13.8 | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.195 | 1.021 | 14.6 | 73    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.000 | 0.844 | 15.6 | 72    | 0.00     |
| 77 T  | Bromobenzene                | 0.960 | 0.851 | 11.4 | 76    | 0.00     |
| 78 T  | n-propylbenzene             | 3.886 | 3.482 | 10.4 | 75    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.334 | 2.010 | 13.9 | 73    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.940 | 2.583 | 12.1 | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.453 | 0.372 | 17.9 | 69    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.651 | 2.327 | 12.2 | 73    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.975 | 2.660 | 10.6 | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.969 | 2.632 | 11.4 | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.467 | 3.124 | 9.9  | 77    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.169 | 2.881 | 9.1  | 77    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.691 | 1.540 | 8.9  | 77    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.704 | 1.538 | 9.7  | 78    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.728 | 2.528 | 7.3  | 78    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.631 | 0.529 | 16.2  | 71    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.644 | 1.500 | 8.8   | 78    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.281 | 0.215 | 23.5# | 67    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.203 | 1.103 | 8.3   | 80    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.535 | 0.535 | 0.0   | 87    | 0.00     |
| 95 T | Naphthalene                 | 3.787 | 3.354 | 11.4  | 76    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.190 | 1.096 | 7.9   | 80    | 0.00     |

(#) = Out of Range

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