

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073118\  
 Data File : VX003744.D  
 Acq On : 31 Jul 2018 11:43  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 31 13:35:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 11:17:41 2018  
 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    | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.422 | 0.421 | 0.2    | 108   | 0.00     |
| 3 P   | Chloromethane               | 0.531 | 0.550 | -3.6   | 110   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.571 | 0.605 | -6.0#  | 107   | 0.00     |
| 5 T   | Bromomethane                | 0.344 | 0.367 | -6.7   | 119   | 0.00     |
| 6 T   | Chloroethane                | 0.377 | 0.371 | 1.6    | 113   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.748 | 0.782 | -4.5   | 112   | 0.00     |
| 8 T   | Diethyl Ether               | 0.283 | 0.276 | 2.5    | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.475 | 0.480 | -1.1   | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 0.546 | 0.549 | -0.5   | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.082 | 0.092 | -12.2  | 118   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.447 | 0.455 | -1.8#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 0.027 | 0.018 | 33.3#  | 110   | 0.00     |
| 14 T  | Allyl chloride              | 0.792 | 0.857 | -8.2   | 110   | 0.00     |
| 15 T  | Acrylonitrile               | 0.208 | 0.232 | -11.5  | 116   | 0.00     |
| 16 T  | Acetone                     | 0.193 | 0.218 | -13.0  | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.454 | 1.487 | -2.3   | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 0.543 | 0.558 | -2.8   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.216 | 1.319 | -8.5   | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.592 | 0.513 | 13.3   | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.490 | 0.533 | -8.8   | 116   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.430 | 1.522 | -6.4   | 108   | -0.01    |
| 23 T  | Vinyl Acetate               | 1.031 | 1.092 | -5.9   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.834 | 0.891 | -6.8   | 112   | 0.00     |
| 25 T  | 2-Butanone                  | 0.282 | 0.283 | -0.4   | 103   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.657 | 0.722 | -9.9   | 115   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.528 | 0.536 | -1.5   | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.374 | 0.375 | -0.3   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.179 | 0.170 | 5.0    | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.822 | 0.854 | -3.9#  | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 0.806 | 0.836 | -3.7   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.706 | 0.749 | -6.1   | 108   | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.506 | 0.513 | -1.4   | 103   | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.294 | 0.353 | -20.1# | 109   | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.468 | 0.530 | -13.2  | 106   | -0.01    |
| 37 T  | Ethyl Acetate               | 0.360 | 0.397 | -10.3  | 100   | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.433 | 0.509 | -17.6  | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.575 | 0.596 | -3.7   | 96    | 0.00     |
| 40 TM | Benzene                     | 1.342 | 1.495 | -11.4  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.203 | 0.234 | -15.3  | 104   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.405 | 0.464 | -14.6  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.573 | 0.590 | -3.0   | 92    | -0.01    |
| 44 TM | Trichloroethene             | 0.383 | 0.370 | 3.4    | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.330 | 0.352 | -6.7#  | 95    | 0.00     |

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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              | 0.190 | 0.190 | 0.0   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.379 | 0.402 | -6.1  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.287 | 0.292 | -1.7  | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.005 | 16.7  | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 1.228 | 1.195 | 2.7   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.352 | 0.346 | 1.7   | 87    | 0.00     |
| 52 CM | Toluene                     | 0.837 | 0.855 | -2.2# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.433 | 0.445 | -2.8  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.482 | 0.518 | -7.5  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.288 | 0.276 | 4.2   | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.396 | 0.399 | -0.8  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.484 | 0.477 | 1.4   | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.189 | 0.211 | -11.6 | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.268 | 0.272 | -1.5  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.290 | 0.298 | -2.8  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.294 | 0.310 | -5.4  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.453 | 0.445 | 1.8   | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.393 | 0.346 | 12.0  | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 1.045 | 1.027 | 1.7   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.341 | 0.337 | 1.2   | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.764 | 1.743 | 1.2#  | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.690 | 0.671 | 2.8   | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.621 | 3.1   | 92    | 0.00     |
| 70 T  | Styrene                     | 1.078 | 1.060 | 1.7   | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.234 | 0.220 | 6.0   | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.130 | 3.113 | 0.5   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 1.109 | 1.119 | -0.9  | 92    | -0.01    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.814 | 0.820 | -0.7  | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.689 | 0.729 | -5.8  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.816 | 0.852 | -4.4  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 3.792 | 4.018 | -6.0  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.153 | 2.229 | -3.5  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.672 | 2.741 | -2.6  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.233 | 0.240 | -3.0  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.611 | 2.646 | -1.3  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.643 | 2.570 | 2.8   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.750 | 2.693 | 2.1   | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.381 | 3.309 | 2.1   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.073 | 2.959 | 3.7   | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.651 | 1.541 | 6.7   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.684 | 1.564 | 7.1   | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.925 | 3.054 | -4.4  | 97    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.456 | 0.453 | 0.7  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.537 | 1.527 | 0.7  | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.161 | 0.158 | 1.9  | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.220 | 1.165 | 4.5  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.780 | 0.689 | 11.7 | 84    | 0.00     |
| 95 T | Naphthalene                 | 2.606 | 2.699 | -3.6 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.107 | 1.060 | 4.2  | 88    | 0.00     |

(#) = Out of Range

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