

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX061620\  
 Data File : VX016796.D  
 Acq On : 16 Jun 2020 22:40  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 17 06:42:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 16 02:02:35 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   | 111   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.504 | 0.553 | -9.7  | 107   | 0.00     |
| 3 P   | Chloromethane               | 0.546 | 0.514 | 5.9   | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.582 | 0.605 | -4.0# | 114   | 0.00     |
| 5 T   | Bromomethane                | 0.362 | 0.336 | 7.2   | 111   | 0.00     |
| 6 T   | Chloroethane                | 0.359 | 0.402 | -12.0 | 126   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.839 | 0.878 | -4.6  | 111   | 0.00     |
| 8 T   | Diethyl Ether               | 0.343 | 0.329 | 4.1   | 117   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.427 | 0.440 | -3.0  | 111   | 0.00     |
| 10 T  | Methyl Iodide               | 0.533 | 0.463 | 13.1  | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.141 | 0.138 | 2.1   | 115   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.489 | 0.468 | 4.3#  | 112   | 0.00     |
| 13 T  | Acrolein                    | 0.064 | 0.066 | -3.1  | 131   | 0.00     |
| 14 T  | Allyl chloride              | 0.764 | 0.755 | 1.2   | 115   | 0.00     |
| 15 T  | Acrylonitrile               | 0.287 | 0.288 | -0.3  | 117   | 0.00     |
| 16 T  | Acetone                     | 0.255 | 0.237 | 7.1   | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.400 | 1.330 | 5.0   | 111   | 0.00     |
| 18 T  | Methyl Acetate              | 0.681 | 0.708 | -4.0  | 117   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.666 | 1.620 | 2.8   | 113   | 0.00     |
| 20 T  | Methylene Chloride          | 0.550 | 0.521 | 5.3   | 114   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.525 | 0.513 | 2.3   | 113   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.436 | 1.456 | -1.4  | 116   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.241 | 1.251 | -0.8  | 116   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.898 | 0.872 | 2.9   | 112   | 0.00     |
| 25 T  | 2-Butanone                  | 0.384 | 0.391 | -1.8  | 117   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.831 | 0.665 | 20.0  | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.600 | 0.577 | 3.8   | 115   | 0.00     |
| 28 T  | Bromochloromethane          | 0.383 | 0.370 | 3.4   | 117   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.249 | 0.252 | -1.2  | 117   | 0.00     |
| 30 C  | Chloroform                  | 0.950 | 0.907 | 4.5#  | 111   | 0.00     |
| 31 T  | Cyclohexane                 | 0.671 | 0.754 | -12.4 | 115   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.862 | 0.845 | 2.0   | 109   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.593 | 0.535 | 9.8   | 109   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 114   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.293 | 4.9   | 111   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.442 | 0.443 | -0.2  | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.484 | 0.482 | 0.4   | 117   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.502 | 0.502 | 0.0   | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.466 | 0.510 | -9.4  | 115   | 0.00     |
| 40 TM | Benzene                     | 1.345 | 1.337 | 0.6   | 114   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.258 | 0.262 | -1.6  | 119   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.491 | 0.459 | 6.5   | 109   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.758 | 0.770 | -1.6  | 117   | 0.00     |
| 44 TM | Trichloroethene             | 0.416 | 0.437 | -5.0  | 120   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.330 | 0.335 | -1.5# | 115   | 0.00     |

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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              | 0.240 | 0.233 | 2.9   | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.501 | 0.484 | 3.4   | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.359 | 0.376 | -4.7  | 119   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 118   | 0.00     |
| 50 S  | Toluene-d8                  | 1.137 | 1.138 | -0.1  | 114   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.467 | 0.486 | -4.1  | 116   | 0.00     |
| 52 CM | Toluene                     | 0.874 | 0.872 | 0.2#  | 114   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.566 | 0.544 | 3.9   | 109   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.590 | 0.574 | 2.7   | 112   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.351 | 0.351 | 0.0   | 115   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.526 | 0.557 | -5.9  | 116   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.591 | 0.584 | 1.2   | 115   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.259 | 0.280 | -8.1  | 117   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.361 | 0.375 | -3.9  | 115   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.415 | 0.419 | -1.0  | 113   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.383 | 0.383 | 0.0   | 113   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.435 | 0.435 | 0.0   | 115   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.480 | 0.502 | -4.6  | 118   | 0.00     |
| 65 PM | Chlorobenzene               | 1.015 | 1.019 | -0.4  | 114   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.405 | 0.403 | 0.5   | 111   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.715 | 1.779 | -3.7# | 114   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.650 | 0.672 | -3.4  | 111   | 0.00     |
| 69 T  | o-Xylene                    | 0.626 | 0.653 | -4.3  | 112   | 0.00     |
| 70 T  | Styrene                     | 1.083 | 1.148 | -6.0  | 113   | 0.00     |
| 71 P  | Bromoform                   | 0.345 | 0.363 | -5.2  | 117   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.281 | 3.393 | -3.4  | 112   | 0.00     |
| 74 T  | N-amyl acetate              | 1.275 | 1.382 | -8.4  | 117   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.965 | 0.936 | 3.0   | 113   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.051 | 1.037 | 1.3   | 114   | 0.00     |
| 77 T  | Bromobenzene                | 0.926 | 0.921 | 0.5   | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 3.563 | 3.741 | -5.0  | 112   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.253 | 2.273 | -0.9  | 113   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.750 | 2.893 | -5.2  | 113   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.418 | 0.397 | 5.0   | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.637 | 2.693 | -2.1  | 115   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.517 | 2.598 | -3.2  | 112   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.782 | 2.898 | -4.2  | 113   | 0.00     |
| 85 T  | sec-Butylbenzene            | 2.944 | 3.110 | -5.6  | 112   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.824 | 3.041 | -7.7  | 114   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.566 | 1.603 | -2.4  | 115   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.624 | 1.568 | 3.4   | 111   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.332 | 2.463 | -5.6  | 113   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.521 | 0.539 | -3.5 | 116   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.566 | 1.545 | 1.3  | 114   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.270 | 0.271 | -0.4 | 115   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.097 | 1.119 | -2.0 | 119   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.497 | 0.479 | 3.6  | 112   | 0.00     |
| 95 T | Naphthalene                 | 3.436 | 3.657 | -6.4 | 117   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.079 | 1.095 | -1.5 | 116   | 0.00     |

(#) = Out of Range

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