

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031622\  
 Data File : VN071335.D  
 Acq On : 16 Mar 2022 21:13  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 17 05:21:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 2022  
 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.548 | 0.414 | 24.5  | 87    | 0.00     |
| 3 P   | Chloromethane               | 0.822 | 0.585 | 28.8# | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.672 | 0.555 | 17.4# | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.335 | 0.282 | 15.8  | 91    | -0.01    |
| 6 T   | Chloroethane                | 0.407 | 0.356 | 12.5  | 95    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.884 | 0.725 | 18.0  | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.378 | 0.323 | 14.6  | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.512 | 0.421 | 17.8  | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.723 | 0.574 | 20.6  | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.135 | 0.132 | 2.2   | 113   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.501 | 0.419 | 16.4# | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.142 | 0.101 | 28.9# | 86    | 0.00     |
| 14 T  | Allyl chloride              | 1.090 | 0.894 | 18.0  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.400 | 0.349 | 12.8  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.333 | 0.294 | 11.7  | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.427 | 1.036 | 27.4# | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.979 | 0.829 | 15.3  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.882 | 1.689 | 10.3  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.661 | 0.517 | 21.8  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.548 | 0.440 | 19.7  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.148 | 1.835 | 14.6  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.818 | 1.610 | 11.4  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.135 | 0.957 | 15.7  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.537 | 0.483 | 10.1  | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.876 | 0.692 | 21.0  | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.651 | 0.545 | 16.3  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.505 | 0.404 | 20.0  | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.372 | 0.325 | 12.6  | 97    | 0.00     |
| 30 C  | Chloroform                  | 1.083 | 0.931 | 14.0# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 1.094 | 0.845 | 22.8  | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.922 | 0.812 | 11.9  | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.685 | 0.656 | 4.2   | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.316 | 0.306 | 3.2   | 114   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.506 | 0.415 | 18.0  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.696 | 0.578 | 17.0  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.489 | 0.409 | 16.4  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.595 | 0.491 | 17.5  | 90    | 0.00     |
| 40 TM | Benzene                     | 1.523 | 1.271 | 16.5  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.340 | 0.270 | 20.6  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.530 | 0.466 | 12.1  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.040 | 0.914 | 12.1  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.359 | 0.303 | 15.6  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.409 | 0.345 | 15.6# | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.252 | 0.219 | 13.1  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.509 | 0.445 | 12.6  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.482 | 0.436 | 9.5   | 98    | 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0    | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 1.270 | 1.200 | 5.5    | 109   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.646 | 0.589 | 8.8    | 99    | 0.00     |
| 52 CM | Toluene                     | 0.938 | 0.804 | 14.3#  | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.561 | 0.491 | 12.5   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.613 | 0.533 | 13.1   | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.376 | 0.323 | 14.1   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.614 | 0.563 | 8.3    | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.675 | 0.578 | 14.4   | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.101 | 0.171 | -69.3# | 171#  | 0.00     |
| 59 T  | 2-Hexanone                  | 0.441 | 0.439 | 0.5    | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.373 | 0.338 | 9.4    | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.384 | 0.331 | 13.8   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.430 | 0.411 | 4.4    | 110   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.349 | 0.285 | 18.3   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 1.074 | 0.939 | 12.6   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.352 | 10.7   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.899 | 1.724 | 9.2#   | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.695 | 0.642 | 7.6    | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.696 | 0.649 | 6.8    | 96    | 0.00     |
| 70 T  | Styrene                     | 1.078 | 1.048 | 2.8    | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.299 | 0.292 | 2.3    | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.820 | 4.043 | 16.1   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.812 | 1.725 | 4.8    | 106   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.655 | 1.400 | 15.4   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.407 | 1.296 | 7.9    | 116   | 0.00     |
| 77 T  | Bromobenzene                | 1.124 | 0.948 | 15.7   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 5.172 | 4.444 | 14.1   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.320 | 2.772 | 16.5   | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.750 | 3.217 | 14.2   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.463 | 0.436 | 5.8    | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.957 | 2.599 | 12.1   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.347 | 2.917 | 12.8   | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.592 | 3.171 | 11.7   | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.448 | 3.956 | 11.1   | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.498 | 3.177 | 9.2    | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.826 | 1.578 | 13.6   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.785 | 1.489 | 16.6   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.736 | 2.425 | 11.4   | 97    | 0.00     |
| 90 T  | Hexachloroethane            | 0.696 | 0.600 | 13.8   | 97    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.756 | 1.529 | 12.9   | 100   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.280 | 0.268 | 4.3    | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.797 | 0.717 | 10.0   | 102   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.493 | 0.399 | 19.1   | 91    | 0.00     |
| 95 T  | Naphthalene                 | 2.115 | 2.313 | -9.4   | 125   | 0.00     |

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

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|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.775 | 0.727 | 6.2  | 106   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6