

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031921\  
 Data File : VD068667.D  
 Acq On : 19 Mar 2021 16:23  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVV031921

Quant Time: Mar 20 02:05:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 20 02:00:55 2021  
 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.391 | 0.379 | 3.1   | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.482 | 0.508 | -5.4  | 105   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.569 | 0.599 | -5.3# | 104   | 0.00     |
| 5 T   | Bromomethane                | 0.421 | 0.438 | -4.0  | 111   | 0.00     |
| 6 T   | Chloroethane                | 0.373 | 0.393 | -5.4  | 104   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.678 | 0.718 | -5.9  | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 0.188 | 0.209 | -11.2 | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.406 | 0.431 | -6.2  | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 0.419 | 0.451 | -7.6  | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.023 | 0.024 | -4.3  | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.395 | 0.422 | -6.8# | 101   | 0.00     |
| 13 T  | Acrolein                    | 0.021 | 0.019 | 9.5   | 104   | 0.00     |
| 14 T  | Allyl chloride              | 0.480 | 0.510 | -6.3  | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.091 | 0.099 | -8.8  | 102   | 0.00     |
| 16 T  | Acetone                     | 0.061 | 0.059 | 3.3   | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.269 | 1.380 | -8.7  | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 0.168 | 0.190 | -13.1 | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.995 | 1.105 | -11.1 | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 0.666 | 0.557 | 16.4  | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.549 | 0.582 | -6.0  | 102   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.220 | 1.347 | -10.4 | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.648 | 0.720 | -11.1 | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.895 | 0.949 | -6.0  | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.101 | 0.109 | -7.9  | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.796 | 0.806 | -1.3  | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.612 | 0.664 | -8.5  | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 0.354 | 0.394 | -11.3 | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.064 | 0.070 | -9.4  | 101   | 0.00     |
| 30 C  | Chloroform                  | 0.973 | 1.048 | -7.7# | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.813 | 0.849 | -4.4  | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.868 | 0.923 | -6.3  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.504 | 0.554 | -9.9  | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.311 | 0.342 | -10.0 | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.447 | 0.474 | -6.0  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.141 | 0.150 | -6.4  | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.446 | 0.468 | -4.9  | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.551 | 0.601 | -9.1  | 101   | 0.00     |
| 40 TM | Benzene                     | 1.303 | 1.373 | -5.4  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.082 | 0.082 | 0.0   | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.341 | 0.368 | -7.9  | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.270 | 0.294 | -8.9  | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.362 | 0.383 | -5.8  | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.312 | 0.326 | -4.5# | 102   | 0.00     |
| 46 T  | Dibromomethane              | 0.177 | 0.187 | -5.6  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.455 | 0.480 | -5.5  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.137 | 0.155 | -13.1 | 105   | 0.00     |

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 ALS Vial : 10 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
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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                 | 0.002 | 0.002 | 0.0   | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.199 | 1.352 | -12.8 | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.141 | 0.152 | -7.8  | 103   | 0.00     |
| 52 CM | Toluene                     | 0.825 | 0.894 | -8.4# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.418 | 0.442 | -5.7  | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.497 | 0.520 | -4.6  | 101   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.249 | 0.259 | -4.0  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.269 | 0.296 | -10.0 | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.407 | 0.441 | -8.4  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.137 | 0.161 | -17.5 | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.094 | 0.102 | -8.5  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.309 | 0.325 | -5.2  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.241 | 0.253 | -5.0  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.389 | 0.439 | -12.9 | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.324 | 0.334 | -3.1  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 0.984 | 1.025 | -4.2  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.354 | 0.364 | -2.8  | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.717 | 1.819 | -5.9# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.669 | 0.709 | -6.0  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 0.620 | 0.661 | -6.6  | 104   | 0.00     |
| 70 T  | Styrene                     | 1.065 | 1.161 | -9.0  | 104   | 0.00     |
| 71 P  | Bromoform                   | 0.187 | 0.198 | -5.9  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.435 | 3.798 | -10.6 | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 0.573 | 0.626 | -9.2  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.607 | 0.642 | -5.8  | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.416 | 0.435 | -4.6  | 106   | 0.00     |
| 77 T  | Bromobenzene                | 0.806 | 0.870 | -7.9  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.090 | 4.536 | -10.9 | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.232 | 2.456 | -10.0 | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.778 | 3.066 | -10.4 | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.183 | 0.203 | -10.9 | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.385 | 2.576 | -8.0  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.368 | 2.734 | -15.5 | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.870 | 3.181 | -10.8 | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.442 | 3.806 | -10.6 | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.132 | 3.469 | -10.8 | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.607 | 1.701 | -5.8  | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.580 | 1.661 | -5.1  | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.974 | 3.273 | -10.1 | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 0.564 | 0.643 | -14.0 | 125   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.365 | 1.460 | -7.0  | 103   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.087 | 0.092 | -5.7  | 99    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.887 | 0.978 | -10.3 | 106   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.506 | 0.537 | -6.1  | 99    | 0.00     |
| 95 T  | Naphthalene                 | 1.553 | 1.764 | -13.6 | 104   | 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.755 | 0.828 | -9.7 | 101   | 0.00     |

(#) = Out of Range

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