

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100521\  
 Data File : VY006303.D  
 Acq On : 05 Oct 2021 09:22  
 Operator : SY/MD  
 Sample : VSTD00515  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTD005815

Manual Integrations  
 APPROVED

apatel  
 10/14/2021 10:04:39 AM

Quant Time: Oct 05 11:00:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMLYM100521SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 05 10:59:01 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Difluorobenzene        | 8.697  | 114  | 202964   | 25.00 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.496 | 117  | 190057   | 25.00 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.428 | 152  | 96638    | 25.00 | ug/L   | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 4) Vinyl Chloride-d3          | 2.247  | 65   | 15943    | 4.79  | ug/L   | 0.00     |
| 7) Chloroethane-d5            | 2.771  | 69   | 12251    | 4.99  | ug/L   | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 3.869  | 63   | 26746    | 4.43  | ug/L   | 0.00     |
| 21) 2-Butanone-d5             | 6.899  | 46   | 9284     | 7.20  | ug/L   | 0.00     |
| 24) Chloroform-d              | 7.490  | 84   | 24738    | 4.73  | ug/L   | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 8.149  | 65   | 17045    | 5.18  | ug/L   | 0.00     |
| 32) Benzene-d6                | 8.118  | 84   | 51125    | 4.59  | ug/L   | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 9.124  | 67   | 15482    | 4.36  | ug/L   | 0.00     |
| 41) Toluene-d8                | 10.185 | 98   | 48698    | 4.78  | ug/L   | 0.00     |
| 43) trans-1,3-Dichloroprop... | 10.441 | 79   | 7805     | 4.56  | ug/L   | 0.00     |
| 47) 2-Hexanone-d5             | 10.794 | 63   | 6335     | 6.79  | ug/L   | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 12.562 | 84   | 12082    | 3.93  | ug/L   | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 13.727 | 152  | 16713    | 4.84  | ug/L   | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.912  | 85   | 18251    | 4.95  | ug/L   | 99       |
| 3) Chloromethane              | 2.119  | 50   | 17534    | 4.26  | ug/L   | 97       |
| 5) Vinyl chloride             | 2.259  | 62   | 21917    | 4.85  | ug/L   | 98       |
| 6) Bromomethane               | 2.662  | 94   | 8739     | 4.62  | ug/L   | 97       |
| 8) Chloroethane               | 2.802  | 64   | 12715    | 4.84  | ug/L   | 92       |
| 9) Trichlorofluoromethane     | 3.131  | 101  | 26924    | 4.66  | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.918  | 101  | 13034    | 4.04  | ug/L   | 91       |
| 12) 1,1-Dichloroethene        | 3.887  | 96   | 13105    | 4.30  | ug/L   | 93       |
| 13) Acetone                   | 3.954  | 43   | 9130     | 8.00  | ug/L   | 94       |
| 14) Carbon disulfide          | 4.204  | 76   | 47073    | 4.61  | ug/L   | 98       |
| 15) Methyl Acetate            | 4.485  | 43   | 8243     | 3.31  | ug/L # | 88       |
| 16) Methylene chloride        | 4.735  | 84   | 19509m   | 4.85  | ug/L   |          |
| 17) trans-1,2-Dichloroethene  | 5.234  | 96   | 13572    | 4.07  | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 5.234  | 73   | 35103    | 3.78  | ug/L # | 79       |
| 19) 1,1-Dichloroethane        | 6.027  | 63   | 25563    | 4.14  | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 6.990  | 96   | 13951    | 3.93  | ug/L   | 88       |
| 22) 2-Butanone                | 6.996  | 43   | 10675    | 6.40  | ug/L   | 97       |
| 23) Bromochloromethane        | 7.344  | 128  | 6752     | 4.11  | ug/L   | 86       |
| 25) Chloroform                | 7.515  | 83   | 28289    | 4.40  | ug/L   | 98       |
| 27) 1,2-Dichloroethane        | 8.246  | 62   | 20285    | 4.46  | ug/L # | 94       |
| 29) Cyclohexane               | 7.795  | 56   | 23304    | 3.90  | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane     | 7.704  | 97   | 24333    | 4.38  | ug/L   | 98       |
| 31) Carbon tetrachloride      | 7.905  | 117  | 22419    | 4.90  | ug/L   | 98       |
| 33) Benzene                   | 8.167  | 78   | 58436    | 4.16  | ug/L   | 100      |
| 34) Trichloroethene           | 8.947  | 95   | 14664    | 4.12  | ug/L   | 88       |
| 35) Methylcyclohexane         | 9.191  | 83   | 25535    | 4.19  | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 9.222  | 63   | 14010    | 3.88  | ug/L # | 97       |
| 38) Bromodichloromethane      | 9.502  | 83   | 19630    | 4.23  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 9.935  | 75   | 21552    | 3.79  | ug/L   | 93       |
| 40) 4-Methyl-2-pentanone      | 10.075 | 43   | 21756    | 6.02  | ug/L   | 98       |
| 42) Toluene                   | 10.246 | 91   | 62505    | 4.15  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 10.465 | 75   | 20799    | 3.91  | ug/L   | 99       |

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 Response via : Initial Calibration

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|-------------------------------|--------|------|----------|------|--------|----------|
| -----                         |        |      |          |      |        |          |
| 45) 1,1,2-Trichloroethane     | 10.648 | 97   | 10754    | 3.86 | ug/L   | 97       |
| 46) Tetrachloroethene         | 10.721 | 164  | 12206    | 4.39 | ug/L   | 95       |
| 48) 2-Hexanone                | 10.837 | 43   | 16165    | 6.37 | ug/L   | 99       |
| 49) Dibromochloromethane      | 10.990 | 129  | 13085    | 4.03 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 11.093 | 107  | 9568     | 3.59 | ug/L # | 99       |
| 51) Chlorobenzene             | 11.520 | 112  | 38637    | 4.20 | ug/L   | 98       |
| 52) Ethylbenzene              | 11.593 | 91   | 66068    | 4.07 | ug/L   | 98       |
| 53) m,p-Xylene                | 11.703 | 106  | 25242    | 4.15 | ug/L   | 100      |
| 54) o-Xylene                  | 12.032 | 106  | 24401    | 4.19 | ug/L   | 90       |
| 55) Styrene                   | 12.044 | 104  | 41482    | 4.10 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 11294    | 3.46 | ug/L # | 97       |
| 59) Bromoform                 | 12.209 | 173  | 8319     | 3.83 | ug/L # | 99       |
| 60) Isopropylbenzene          | 12.331 | 105  | 64557    | 3.96 | ug/L   | 98       |
| 61) 1,2,3-Trichloropropane    | 12.636 | 75   | 9650     | 3.36 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 50683    | 3.84 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 51093    | 3.89 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 13.367 | 146  | 29448    | 4.20 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 13.446 | 146  | 30266    | 4.26 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 13.739 | 146  | 26530    | 4.11 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 14.355 | 75   | 2305     | 3.48 | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 14.501 | 180  | 20677    | 4.31 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.007 | 180  | 16411    | 4.11 | ug/L   | 97       |
| 71) Naphthalene               | 15.239 | 128  | 30192    | 3.20 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 14444    | 4.01 | ug/L   | 97       |
| -----                         |        |      |          |      |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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