Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071222\
Data File : VY009522.D
Acq On : 12 Jul 2022 09:34
Operator : KP/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

Quant Time: Jul 13 01:13:21 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y070722S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 08 11:00:56 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.783 | 168 | 177467 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.685 | 114 | 279959 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.490 | 117 | 259636 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.422 | 152 | 140504 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.136 | 65 | 58433 | 46.257 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 92.520% | | | | |
| 35) Dibromofluoromethane | 7.710 | 113 | 63674 | 43.226 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 86.460% | | | | |
| 50) Toluene-d8 | 10.179 | 98 | 195534 | 48.107 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 78 - 125 | | Recovery = 96.220% | | | | |
| 62) 4-Bromofluorobenzene | 12.477 | 95 | 107040 | 51.478 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 146 | | Recovery = 102.960% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.900 | 85 | 69834 | 51.313 | ug/l | | 98 |
| 3) Chloromethane | 2.107 | 50 | 79473 | 52.292 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.247 | 62 | 95395 | 55.131 | ug/l | | 94 |
| 5) Bromomethane | 2.637 | 94 | 62482 | 50.262 | ug/l | | 93 |
| 6) Chloroethane | 2.784 | 64 | 53292 | 52.752 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 3.119 | 101 | 130416 | 56.452 | ug/l | | 92 |
| 8) Diethyl Ether | 3.521 | 74 | 44176 | 49.982 | ug/l | | 88 |
| 9) 1,1,2-Trichlorotrifluo... | 3.887 | 101 | 81184 | 51.867 | ug/l | | 97 |
| 10) Methyl Iodide | 4.082 | 142 | 91255 | 43.938 | ug/l | | 92 |
| 11) Tert butyl alcohol | 4.948 | 59 | 40119 | 166.854 | ug/l | # | 93 |
| 12) 1,1-Dichloroethene | 3.863 | 96 | 78444 | 54.033 | ug/l | | 85 |
| 13) Acrolein | 3.723 | 56 | 32391 | 233.049 | ug/l | | 97 |
| 14) Allyl chloride | 4.473 | 41 | 135626 | 54.297 | ug/l | | 96 |
| 15) Acrylonitrile | 5.149 | 53 | 117534 | 241.676 | ug/l | | 98 |
| 16) Acetone | 3.942 | 43 | 106310 | 246.250 | ug/l | | 94 |
| 17) Carbon Disulfide | 4.186 | 76 | 229691 | 47.821 | ug/l | | 98 |
| 18) Methyl Acetate | 4.466 | 43 | 54184 | 42.747 | ug/l | | 93 |
| 19) Methyl tert-butyl Ether | 5.210 | 73 | 227925 | 51.871 | ug/l | | 98 |
| 20) Methylene Chloride | 4.710 | 84 | 85963 | 41.225 | ug/l | | 91 |
| 21) trans-1,2-Dichloroethene | 5.210 | 96 | 92729 | 54.512 | ug/l | | 89 |
| 22) Diisopropyl ether | 6.112 | 45 | 316645 | 59.628 | ug/l | | 93 |
| 23) Vinyl Acetate | 6.051 | 43 | 997508 | 270.346 | ug/l | | 96 |
| 24) 1,1-Dichloroethane | 6.009 | 63 | 161496 | 53.928 | ug/l | | 98 |
| 25) 2-Butanone | 6.978 | 43 | 172159 | 246.513 | ug/l | # | 90 |
| 26) 2,2-Dichloropropane | 6.972 | 77 | 154105 | 52.212 | ug/l | | 96 |
| 27) cis-1,2-Dichloroethene | 6.978 | 96 | 104883 | 52.372 | ug/l | | 91 |
| 28) Bromochloromethane | 7.326 | 49 | 68946 | 54.777 | ug/l | # | 90 |
| 29) Tetrahydrofuran | 7.338 | 42 | 114436 | 253.341 | ug/l | | 95 |
| 30) Chloroform | 7.502 | 83 | 169732 | 51.787 | ug/l | | 100 |
| 31) Cyclohexane | 7.777 | 56 | 154980 | 53.229 | ug/l | | 92 |
| 32) 1,1,1-Trichloroethane | 7.698 | 97 | 154254 | 53.382 | ug/l | | 97 |
| 36) 1,1-Dichloropropene | 7.911 | 75 | 133883 | 55.827 | ug/l | | 98 |
| 37) Ethyl Acetate | 7.064 | 43 | 75366 | 50.135 | ug/l | | 97 |
| 38) Carbon Tetrachloride | 7.893 | 117 | 142497 | 55.558 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.179 | 83 | 165901 | 57.631 | ug/l | | 92 |
| 40) Benzene | 8.155 | 78 | 385199 | 54.699 | ug/l | | 97 |

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Quant Title : SW846 8260
QLast Update : Fri Jul 08 11:00:56 2022
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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Reviewed By :John Carlone 07/13/2022
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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.313 | 41 | 40563m | 51.964 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.228 | 62 | 114060 | 53.949 | ug/l | | 93 |
| 43) Isopropyl Acetate | 8.265 | 43 | 146974 | 52.400 | ug/l | | 95 |
| 44) Trichloroethene | 8.935 | 130 | 107084 | 53.827 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.209 | 63 | 97449 | 54.679 | ug/l | | 97 |
| 46) Dibromomethane | 9.301 | 93 | 54856 | 52.443 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.490 | 83 | 135336 | 54.359 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.289 | 41 | 65175 | 53.932 | ug/l | | 91 |
| 49) 1,4-Dioxane | 9.289 | 88 | 15584 | 1011.674 | ug/l | | 87 |
| 51) 4-Methyl-2-Pentanone | 10.069 | 43 | 397099 | 269.208 | ug/l | | 95 |
| 52) Toluene | 10.240 | 92 | 257882 | 57.466 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.459 | 75 | 148256 | 56.508 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.923 | 75 | 162907 | 55.685 | ug/l | | 92 |
| 55) 1,1,2-Trichloroethane | 10.642 | 97 | 80390 | 53.274 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.508 | 69 | 114364 | 57.084 | ug/l | | 88 |
| 57) 1,3-Dichloropropane | 10.788 | 76 | 137794 | 55.392 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.783 | 63 | 268972 | 274.830 | ug/l | | 97 |
| 59) 2-Hexanone | 10.831 | 43 | 285579 | 279.399 | ug/l | | 93 |
| 60) Dibromochloromethane | 10.984 | 129 | 100055 | 54.754 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.087 | 107 | 77087 | 53.287 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.715 | 164 | 100396 | 46.249 | ug/l | | 99 |
| 65) Chlorobenzene | 11.514 | 112 | 276166 | 54.158 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131 | 103439 | 53.927 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.587 | 91 | 503448 | 56.553 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.697 | 106 | 403329 | 116.170 | ug/l | | 92 |
| 69) o-Xylene | 12.026 | 106 | 193878 | 58.259 | ug/l | | 91 |
| 70) Styrene | 12.044 | 104 | 328329 | 59.068 | ug/l | | 95 |
| 71) Bromoform | 12.203 | 173 | 67828 | 55.481 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.331 | 105 | 519287 | 54.042 | ug/l | | 99 |
| 74) N-amyl acetate | 12.142 | 43 | 146509 | 53.588 | ug/l | | 92 |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83 | 100248 | 52.104 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.630 | 75 | 72709m | 48.885 | ug/l | | |
| 77) Bromobenzene | 12.605 | 156 | 121807 | 52.070 | ug/l | | 94 |
| 78) n-propylbenzene | 12.672 | 91 | 632360 | 54.472 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.758 | 91 | 353533 | 54.395 | ug/l | | 96 |
| 80) 1,3,5-Trimethylbenzene | 12.812 | 105 | 439534 | 54.724 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75 | 37080 | 51.023 | ug/l | | 87 |
| 82) 4-Chlorotoluene | 12.855 | 91 | 374246 | 54.945 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.075 | 119 | 390176 | 54.603 | ug/l | | 94 |
| 84) 1,2,4-Trimethylbenzene | 13.117 | 105 | 437192 | 54.687 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.251 | 105 | 583426 | 55.439 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.367 | 119 | 485308 | 55.323 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.367 | 146 | 244963 | 53.050 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.447 | 146 | 246236 | 52.688 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.696 | 91 | 460712 | 56.242 | ug/l | | 98 |
| 90) Hexachloroethane | 13.959 | 117 | 92115 | 53.519 | ug/l | | 91 |
| 91) 1,2-Dichlorobenzene | 13.739 | 146 | 220461 | 52.110 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75 | 16272 | 48.252 | ug/l | | 82 |
| 93) 1,2,4-Trichlorobenzene | 15.007 | 180 | 136096 | 52.744 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.111 | 225 | 74220 | 52.319 | ug/l | | 99 |
| 95) Naphthalene | 15.233 | 128 | 272218 | 51.025 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.422 | 180 | 116681 | 52.210 | ug/l | | 99 |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

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**Instrument :**
MSVOA_Y
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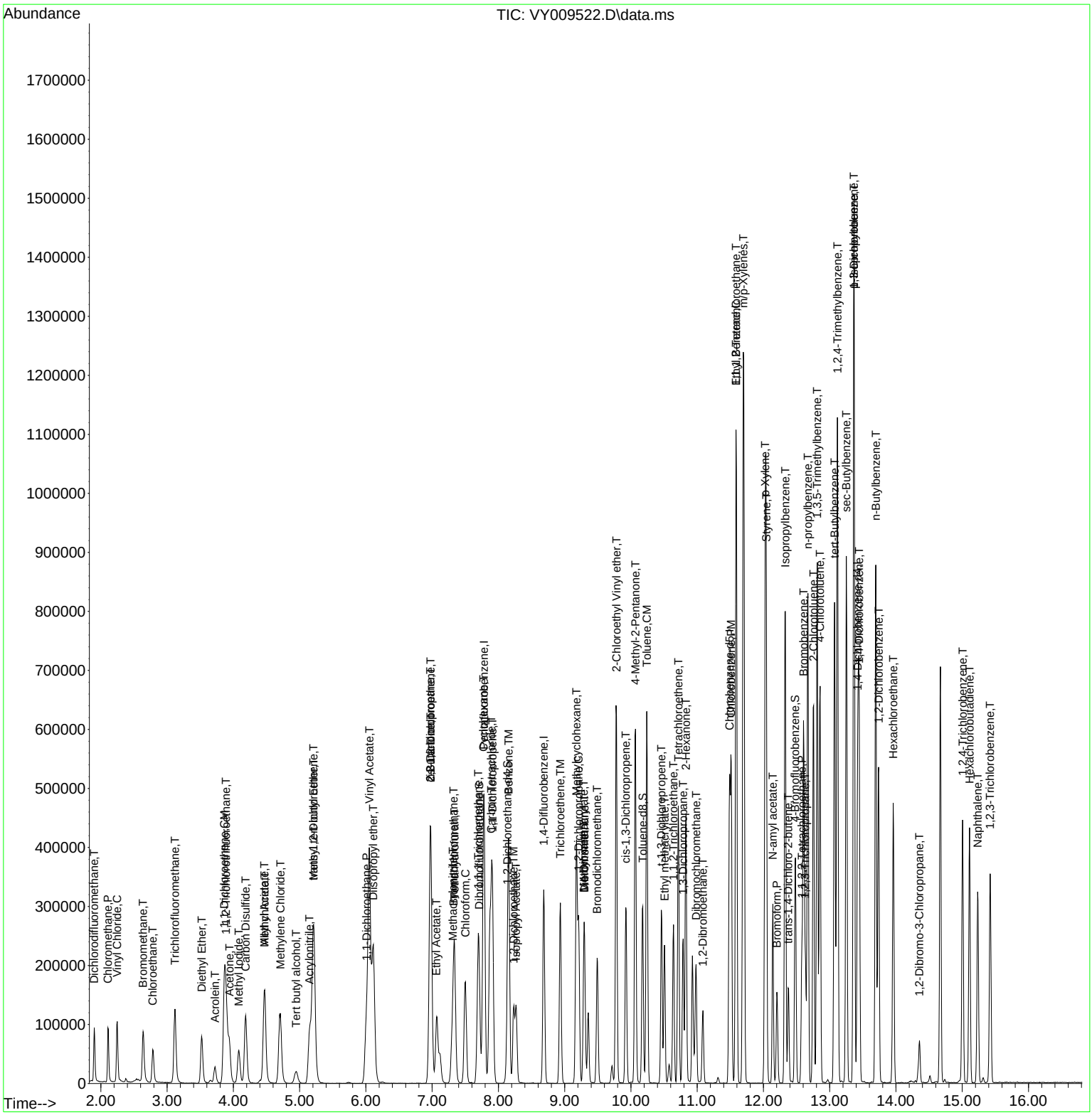
VSTDCCC050

**Manual Integrations APPROVED**

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