Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091324\
Data File : VY019537.D
Acq On : 13 Sep 2024 13:40
Operator : SY/MD
Sample : P3390-03 4 PPB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 13 23:17:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 23:16:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
MDL-SOIL-03-QT3-2024

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 09/16/2024
Supervised By :Mahesh Dadoda 09/16/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 402094 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 718319 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 602560 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 277332 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 203725 | 54.716 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 109.440% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 204058 | 50.103 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.200% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 741927 | 49.251 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.500% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 260557 | 44.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 89.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 9328 | 3.670 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 10263 | 3.085 | ug/l | 94 |
| 4) Vinyl Chloride | 2.208 | 62 | 12204 | 3.393 | ug/l | 91 |
| 5) Bromomethane | 2.598 | 94 | 9480 | 4.290 | ug/l | 95 |
| 6) Chloroethane | 2.732 | 64 | 9478 | 4.030 | ug/l | 94 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 24386 | 4.067 | ug/l | 95 |
| 8) Diethyl Ether | 3.458 | 74 | 7945 | 3.947 | ug/l | 80 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 15776 | 4.253 | ug/l | 93 |
| 10) Methyl Iodide | 4.007 | 142 | 14775 | 3.107 | ug/l | 91 |
| 11) Tert butyl alcohol | 4.860 | 59 | 7825 | 26.024 | ug/l # | 63 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 12645 | 3.545 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 8338 | 51.713 | ug/l | 96 |
| 14) Allyl chloride | 4.372 | 41 | 22780 | 3.561 | ug/l # | 92 |
| 15) Acrylonitrile | 5.049 | 53 | 21639 | 24.932 | ug/l | 96 |
| 16) Acetone | 3.872 | 43 | 16735 | 18.866 | ug/l # | 86 |
| 17) Carbon Disulfide | 4.104 | 76 | 15317 | 1.589 | ug/l | 96 |
| 18) Methyl Acetate | 4.385 | 43 | 15115 | 6.279 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 46623 | 4.614 | ug/l | 93 |
| 20) Methylene Chloride | 4.610 | 84 | 19992 | 4.942 | ug/l # | 85 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 13688 | 3.501 | ug/l | 88 |
| 22) Diisopropyl ether | 6.018 | 45 | 59024 | 4.493 | ug/l | 94 |
| 23) Vinyl Acetate | 5.951 | 43 | 193904 | 25.840 | ug/l | 93 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 31827 | 4.317 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 26323 | 20.865 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 28897 | 4.346 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 20255 | 4.264 | ug/l | 87 |
| 28) Bromochloromethane | 7.244 | 49 | 13484 | 4.347 | ug/l | 83 |
| 29) Tetrahydrofuran | 7.262 | 42 | 17097 | 22.289 | ug/l | 86 |
| 30) Chloroform | 7.421 | 83 | 36464 | 4.845 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 26770 | 4.017 | ug/l # | 80 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 29783 | 4.415 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 20264 | 3.657 | ug/l | 96 |
| 37) Ethyl Acetate | 6.976 | 43 | 12210 | 4.300 | ug/l # | 96 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 24648 | 3.944 | ug/l | 97 |
| 39) Methylcyclohexane | 9.103 | 83 | 20933 | 2.838 | ug/l # | 83 |
| 40) Benzene | 8.079 | 78 | 66744 | 3.910 | ug/l | 96 |

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| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 7080 | 4.277 ug/l | # | 84 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 20525 | 4.469 ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 25076 | 4.203 ug/l | # | 79 |
| 44) Trichloroethene | 8.865 | 130 | 16864 | 3.842 ug/l | | 90 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 18193 | 4.360 ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 9813 | 4.300 ug/l | | 92 |
| 47) Bromodichloromethane | 9.420 | 83 | 27755 | 4.525 ug/l | # | 91 |
| 48) Methyl methacrylate | 9.225 | 41 | 11577 | 4.110 ug/l | | 85 |
| 49) 1,4-Dioxane | 9.237 | 88 | 2326 | 86.584 ug/l | # | 73 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 65874 | 21.949 ug/l | | 90 |
| 52) Toluene | 10.170 | 92 | 42848 | 3.903 ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 23418 | 4.005 ug/l | # | 85 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 27773 | 4.079 ug/l | # | 89 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 14218 | 4.512 ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 20004 | 4.179 ug/l | # | 84 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 23907 | 4.413 ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 45390 | 20.429 ug/l | | 97 |
| 59) 2-Hexanone | 10.761 | 43 | 42685 | 19.400 ug/l | | 90 |
| 60) Dibromochloromethane | 10.914 | 129 | 18782 | 4.506 ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 12444 | 4.238 ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 14697 | 3.939 ug/l | | 91 |
| 65) Chlorobenzene | 11.444 | 112 | 51936 | 4.382 ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 18662 | 4.547 ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 88774 | 4.215 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 64536 | 8.104 ug/l | | 91 |
| 69) o-Xylene | 11.950 | 106 | 33101 | 4.250 ug/l | | 91 |
| 70) Styrene | 11.969 | 104 | 56506 | 4.297 ug/l | | 95 |
| 71) Bromoform | 12.127 | 173 | 10307 | 4.397 ug/l | # | 97 |
| 73) Isopropylbenzene | 12.255 | 105 | 87825 | 4.365 ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 22525 | 4.117 ug/l | | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 17193 | 4.814 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 12250m | 4.713 ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 19458 | 4.361 ug/l | | 88 |
| 78) n-propylbenzene | 12.596 | 91 | 103529 | 4.341 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 61868 | 4.452 ug/l | | 95 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 70499 | 4.310 ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 5519 | 4.076 ug/l | # | 86 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 61877 | 4.331 ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 68018 | 4.594 ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 71360 | 4.407 ug/l | | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 95026 | 4.418 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 75344 | 4.281 ug/l | | 95 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 39282 | 4.530 ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 39089 | 4.543 ug/l | | 93 |
| 89) n-Butylbenzene | 13.615 | 91 | 72990 | 4.338 ug/l | | 100 |
| 90) Hexachloroethane | 13.877 | 117 | 16459 | 4.495 ug/l | | 89 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 35620 | 4.604 ug/l | | 97 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 2468 | 4.147 ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 19316 | 4.105 ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 10335 | 4.111 ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 37713 | 4.002 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 16867 | 4.190 ug/l | | 97 |

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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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