

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL060822\  
 Data File : VL039242.D  
 Acq On : 8 Jun 2022 19:44  
 Operator : SY/AP  
 Sample : N3214-13 0.4 LOD  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT2-2022

Quant Time: Jun 09 06:42:17 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jun 09 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin  
 Yesilyurt

06/09/2022

Supervised By : Mahesh  
 Dadoda

06/09/2022

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.674  | 49   | 972862   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.182  | 114  | 2286023  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.092 | 117  | 1930068  | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.420 95 1781784 11.166 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 111.700%

#### Target Compounds

|                               |       |     |         |       |        | Qvalue |
|-------------------------------|-------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 3.060 | 85  | 105551  | 0.618 | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 2.996 | 51  | 60532   | 0.489 | ppbv   | 96     |
| 4) Chloromethane              | 3.150 | 50  | 31821m  | 0.500 | ppbv   |        |
| 5) Vinyl Chloride             | 3.266 | 62  | 29905m  | 0.503 | ppbv   |        |
| 6) Bromomethane               | 3.491 | 94  | 15633m  | 0.535 | ppbv   |        |
| 7) Chloroethane               | 3.568 | 64  | 12322m  | 0.595 | ppbv   |        |
| 8) Dichlorotetrafluoroethane  | 3.198 | 85  | 86016m  | 0.551 | ppbv   |        |
| 9) Propene                    | 3.018 | 41  | 23477m  | 0.435 | ppbv   |        |
| 10) Heptane                   | 8.131 | 43  | 41552m  | 0.330 | ppbv   |        |
| 11) Trichlorofluoromethane    | 3.960 | 101 | 92190   | 0.596 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 4.497 | 101 | 62886   | 0.615 | ppbv   | 95     |
| 13) Ethanol                   | 3.629 | 45  | 1926m   | 0.654 | ppbv   |        |
| 14) Bromoethene               | 3.751 | 108 | 24184m  | 0.526 | ppbv   |        |
| 15) Acetone                   | 3.873 | 43  | 65794m  | 0.649 | ppbv   |        |
| 16) 1,3-Butadiene             | 3.343 | 39  | 31761m  | 0.583 | ppbv   |        |
| 17) tert-Butyl alcohol        | 4.317 | 59  | 51456m  | 0.655 | ppbv   |        |
| 18) 1,1-Dichloroethene        | 4.298 | 96  | 27240   | 0.594 | ppbv # | 93     |
| 19) Isopropyl Alcohol         | 3.992 | 45  | 23949m  | 0.504 | ppbv   |        |
| 20) Methylene Chloride        | 4.349 | 84  | 29219   | 0.684 | ppbv # | 84     |
| 21) Allyl Chloride            | 4.423 | 41  | 39670m  | 0.580 | ppbv   |        |
| 22) trans-1,2-Dichloroethene  | 4.899 | 96  | 28252m  | 0.640 | ppbv   |        |
| 23) Vinyl Acetate             | 5.086 | 43  | 35042   | 0.418 | ppbv # | 94     |
| 24) 1,1-Dichloroethane        | 5.021 | 63  | 56671   | 0.493 | ppbv   | 96     |
| 25) Ethyl Acetate             | 5.693 | 43  | 85904m  | 0.376 | ppbv   |        |
| 26) Hexane                    | 5.697 | 57  | 39598m  | 0.394 | ppbv   |        |
| 27) Carbon Disulfide          | 4.565 | 76  | 51344m  | 0.494 | ppbv   |        |
| 28) Methyl tert-Butyl Ether   | 5.057 | 73  | 54512m  | 0.492 | ppbv   |        |
| 29) Chloroform                | 5.758 | 83  | 76515   | 0.453 | ppbv   | 86     |
| 30) Cyclohexane               | 7.134 | 84  | 36069m  | 0.428 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 5.561 | 61  | 41283   | 0.403 | ppbv # | 85     |
| 32) 1,1,1-Trichloroethane     | 6.523 | 97  | 73069   | 0.442 | ppbv   | 91     |
| 34) 2-Butanone                | 5.269 | 43  | 54370m  | 0.438 | ppbv   |        |
| 35) Carbon Tetrachloride      | 7.034 | 117 | 78274m  | 0.469 | ppbv   |        |
| 36) Benzene                   | 6.899 | 78  | 72629m  | 0.391 | ppbv   |        |
| 37) 1,2-Dichloroethane        | 6.317 | 62  | 60343m  | 0.494 | ppbv   |        |
| 38) Trichloroethene           | 7.851 | 130 | 35306m  | 0.414 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 7.623 | 63  | 29846m  | 0.404 | ppbv   |        |
| 40) 1,4-Dioxane               | 7.883 | 88  | 11029m  | 0.454 | ppbv   |        |
| 41) Tetrahydrofuran           | 6.086 | 42  | 25830m  | 0.346 | ppbv   |        |
| 42) Bromodichloromethane      | 7.803 | 83  | 67537   | 0.398 | ppbv # | 86     |
| 43) Methyl Methacrylate       | 8.031 | 69  | 25067m  | 0.347 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 7.877 | 57  | 120185m | 0.370 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 9.285 | 75  | 23248m  | 0.309 | ppbv   |        |

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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |    |
|-------------------------------|--------|------|----------|-------|--------|----------|----|
| 46) cis-1,3-Dichloropropene   | 8.709  | 75   | 31355m   | 0.315 | ppbv   |          |    |
| 47) 1,1,2-Trichloroethane     | 9.487  | 97   | 32083m   | 0.417 | ppbv   |          |    |
| 48) Dibromochloromethane      | 10.320 | 129  | 49362m   | 0.359 | ppbv   |          |    |
| 49) Bromoform                 | 13.047 | 173  | 38372m   | 0.335 | ppbv   |          |    |
| 50) 4-Methyl-2-Pentanone      | 8.770  | 43   | 68880m   | 0.371 | ppbv   |          |    |
| 51) 2-Hexanone                | 10.166 | 43   | 44771m   | 0.309 | ppbv   |          |    |
| 52) Tetrachloroethene         | 11.233 | 164  | 25874m   | 0.357 | ppbv   |          |    |
| 53) Toluene                   | 9.806  | 91   | 72797m   | 0.341 | ppbv   |          |    |
| 54) 1,2-Dibromoethane         | 10.616 | 107  | 40571m   | 0.392 | ppbv   |          |    |
| 56) 1,1,1,2-Tetrachloroethane | 12.130 | 131  | 41087m   | 0.450 | ppbv   |          |    |
| 57) Chlorobenzene             | 12.156 | 112  | 60739    | 0.418 | ppbv   |          | 96 |
| 58) Ethyl Benzene             | 12.722 | 91   | 99494    | 0.374 | ppbv   |          | 94 |
| 59) m/p-Xylene                | 13.005 | 91   | 190837m  | 0.815 | ppbv   |          |    |
| 60) o-Xylene                  | 13.699 | 91   | 92566    | 0.421 | ppbv   |          | 91 |
| 61) Styrene                   | 13.532 | 104  | 40597m   | 0.345 | ppbv   |          |    |
| 62) Isopropylbenzene          | 14.670 | 105  | 138907m  | 0.425 | ppbv   |          |    |
| 63) 1,1,2,2-Tetrachloroethane | 13.683 | 83   | 53177m   | 0.431 | ppbv   |          |    |
| 64) n-propylbenzene           | 15.564 | 120  | 31706m   | 0.394 | ppbv   |          |    |
| 65) tert-Butylbenzene         | 16.751 | 119  | 120594m  | 0.403 | ppbv   |          |    |
| 66) Benzyl Chloride           | 16.992 | 91   | 12768m   | 0.328 | ppbv   |          |    |
| 67) sec-Butylbenzene          | 17.304 | 105  | 167666m  | 0.411 | ppbv   |          |    |
| 69) p-Isopropyltoluene        | 17.657 | 119  | 130133   | 0.378 | ppbv # |          | 89 |
| 70) n-Butylbenzene            | 18.555 | 91   | 137632   | 0.390 | ppbv   |          | 95 |
| 71) 2-Chlorotoluene           | 15.458 | 91   | 103415m  | 0.415 | ppbv   |          |    |
| 72) 4-Ethyltoluene            | 15.850 | 105  | 100808m  | 0.391 | ppbv   |          |    |
| 73) 1,3,5-Trimethylbenzene    | 16.005 | 105  | 97798m   | 0.421 | ppbv   |          |    |
| 74) 1,2,4-Trimethylbenzene    | 16.770 | 105  | 100926   | 0.389 | ppbv # |          | 85 |
| 75) 1,3-Dichlorobenzene       | 17.002 | 146  | 60055    | 0.409 | ppbv   |          | 94 |
| 76) 1,4-Dichlorobenzene       | 17.153 | 146  | 57508m   | 0.392 | ppbv   |          |    |
| 77) 1,2-Dichlorobenzene       | 17.825 | 146  | 60587m   | 0.409 | ppbv   |          |    |
| 78) Hexachloro-1,3-Butadiene  | 23.371 | 225  | 60176m   | 0.444 | ppbv   |          |    |
| 79) Naphthalene               | 22.210 | 128  | 56251m   | 0.282 | ppbv   |          |    |
| 80) Naphthalene,2-methyl-     | 24.979 | 142  | 11510m   | 0.155 | ppbv   |          |    |
| 81) 1,2,4-Trichlorobenzene    | 21.940 | 180  | 40243m   | 0.318 | ppbv   |          |    |

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

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