

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL091922\  
 Data File : VL039629.D  
 Acq On : 19 Sep 2022 10:23  
 Operator : SY/AP  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 09/21/2022  
 Supervised By :Mahesh Dadoda 09/21/2022

Quant Time: Sep 19 11:22:30 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL091922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Fri Aug 26 06:05:16 2022

Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.205  | 49   | 1125297  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.664  | 114  | 3060612  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.475 | 117  | 2859205  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.783 | 95    | 2155854  | 9.994    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.900% |

Target Compounds

|                               |       |     |         |       |        | Qvalue |
|-------------------------------|-------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.751 | 85  | 151417  | 1.011 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 2.697 | 51  | 146625  | 1.094 | ppbv   | 96     |
| 4) Chloromethane              | 2.835 | 50  | 83413   | 1.033 | ppbv   | 96     |
| 5) Vinyl Chloride             | 2.941 | 62  | 74966   | 1.150 | ppbv # | 81     |
| 6) Bromomethane               | 3.140 | 94  | 24059   | 0.870 | ppbv # | 77     |
| 7) Chloroethane               | 3.218 | 64  | 24766   | 1.014 | ppbv   | 95     |
| 8) Dichlorotetrafluoroethane  | 2.880 | 85  | 187387  | 1.170 | ppbv   | 92     |
| 9) Propene                    | 2.716 | 41  | 60785   | 0.991 | ppbv   | 89     |
| 10) Heptane                   | 7.594 | 43  | 144022  | 1.014 | ppbv   | 97     |
| 11) Trichlorofluoromethane    | 3.584 | 101 | 178216  | 1.084 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 4.086 | 101 | 126426  | 1.040 | ppbv   | 97     |
| 13) Ethanol                   | 3.272 | 45  | 5209m   | 1.181 | ppbv   |        |
| 14) Bromoethene               | 3.388 | 108 | 49497   | 0.997 | ppbv # | 89     |
| 15) Acetone                   | 3.497 | 43  | 130127  | 1.032 | ppbv   | 96     |
| 16) 1,3-Butadiene             | 3.009 | 39  | 64197   | 0.976 | ppbv   | 90     |
| 17) tert-Butyl alcohol        | 3.902 | 59  | 124445m | 1.157 | ppbv   |        |
| 18) 1,1-Dichloroethene        | 3.906 | 96  | 58499   | 1.068 | ppbv   | 81     |
| 19) Isopropyl Alcohol         | 3.600 | 45  | 64088   | 1.045 | ppbv # | 90     |
| 20) Methylene Chloride        | 3.951 | 84  | 65618   | 1.281 | ppbv   | 93     |
| 21) Allyl Chloride            | 4.015 | 41  | 86081   | 1.050 | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 4.462 | 96  | 51739   | 0.950 | ppbv   | 96     |
| 23) Vinyl Acetate             | 4.645 | 43  | 59599m  | 0.994 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 4.581 | 63  | 120236  | 1.084 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.227 | 43  | 285646  | 1.059 | ppbv   | 99     |
| 26) Hexane                    | 5.227 | 57  | 122848  | 1.116 | ppbv   | 91     |
| 27) Carbon Disulfide          | 4.140 | 76  | 114854  | 0.977 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 4.613 | 73  | 103658  | 1.092 | ppbv   | 98     |
| 29) Chloroform                | 5.292 | 83  | 182811  | 1.062 | ppbv   | 95     |
| 30) Cyclohexane               | 6.610 | 84  | 86921   | 0.954 | ppbv   | 92     |
| 31) cis-1,2-Dichloroethene    | 5.095 | 61  | 102252  | 0.959 | ppbv   | 93     |
| 32) 1,1,1-Trichloroethane     | 6.021 | 97  | 169234m | 1.117 | ppbv   |        |
| 34) 2-Butanone                | 4.812 | 43  | 155756  | 1.024 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.507 | 117 | 169640  | 1.025 | ppbv   | 92     |
| 36) Benzene                   | 6.385 | 78  | 241164  | 1.034 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 5.822 | 62  | 126784  | 0.987 | ppbv   | 97     |
| 38) Trichloroethene           | 7.304 | 130 | 133278  | 1.066 | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 7.082 | 63  | 85116   | 0.970 | ppbv   | 96     |
| 40) 1,4-Dioxane               | 7.324 | 88  | 40977m  | 1.193 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.587 | 42  | 90385m  | 0.994 | ppbv   |        |
| 42) Bromodichloromethane      | 7.263 | 83  | 176250  | 1.002 | ppbv   | 90     |
| 43) Methyl Methacrylate       | 7.494 | 69  | 80057   | 0.952 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 7.336 | 57  | 422092  | 1.073 | ppbv   | 97     |
| 45) t-1,3-Dichloropropene     | 8.719 | 75  | 56176   | 0.767 | ppbv # | 82     |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2022

QLast Update : Fri Aug 26 06:05:16 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.156  | 75   | 89657    | 0.883 | ppbv # | 94       |
| 47) 1,1,2-Trichloroethane     | 8.909  | 97   | 97292    | 0.971 | ppbv   | 95       |
| 48) Dibromochloromethane      | 9.719  | 129  | 138541   | 0.938 | ppbv   | 97       |
| 49) Bromoform                 | 12.413 | 173  | 111739   | 0.914 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.205  | 43   | 238175   | 1.005 | ppbv   | 93       |
| 51) 2-Hexanone                | 9.578  | 43   | 161285   | 0.924 | ppbv # | 97       |
| 52) Tetrachloroethene         | 10.622 | 164  | 85476    | 0.968 | ppbv   | 94       |
| 53) Toluene                   | 9.227  | 91   | 245655   | 0.941 | ppbv   | 96       |
| 54) 1,2-Dibromoethane         | 10.015 | 107  | 109653m  | 0.979 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 11.523 | 131  | 117221   | 1.009 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.532 | 112  | 215157   | 1.009 | ppbv # | 95       |
| 58) Ethyl Benzene             | 12.098 | 91   | 333061   | 1.014 | ppbv   | 97       |
| 59) m/p-Xylene                | 12.381 | 91   | 627347m  | 2.129 | ppbv   |          |
| 60) o-Xylene                  | 13.066 | 91   | 293938   | 1.039 | ppbv   | 99       |
| 61) Styrene                   | 12.905 | 104  | 140353   | 0.932 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.037 | 105  | 451703   | 1.056 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.056 | 83   | 122225   | 0.912 | ppbv   | 99       |
| 64) n-propylbenzene           | 14.925 | 120  | 113129m  | 1.018 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.098 | 119  | 404020   | 1.062 | ppbv   | 97       |
| 66) Benzyl Chloride           | 16.330 | 91   | 27112m   | 0.878 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.645 | 105  | 557194   | 1.035 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.005 | 119  | 455399   | 1.019 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.895 | 91   | 434078   | 0.976 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 14.809 | 91   | 322528   | 1.041 | ppbv   | 96       |
| 72) 4-Ethyltoluene            | 15.201 | 105  | 324785   | 0.982 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.362 | 105  | 303557   | 1.004 | ppbv   | 92       |
| 74) 1,2,4-Trimethylbenzene    | 16.114 | 105  | 345583   | 1.026 | ppbv   | 90       |
| 75) 1,3-Dichlorobenzene       | 16.336 | 146  | 207865   | 1.015 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 16.484 | 146  | 201380   | 0.987 | ppbv   | 95       |
| 77) 1,2-Dichlorobenzene       | 17.150 | 146  | 196674   | 0.981 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 22.645 | 225  | 162880   | 1.020 | ppbv   | 98       |
| 79) Naphthalene               | 21.391 | 128  | 235726m  | 0.983 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.387 | 142  | 72218m   | 0.742 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 146127m  | 0.912 | ppbv   |          |

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

