

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041676.D  
 Acq On : 7 Nov 2024 11:34  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Nov 08 00:10:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Fri Nov 08 00:07:44 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024  
 Supervised By :Semsettin Yesilyurt 11/09/2024

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.185  | 49   | 1184622  | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.648  | 114  | 3332226  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.465 | 117  | 3067671  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 13.773 | 95    | 2285234  | 10.073   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.700% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.726 | 85  | 181618 | 0.848 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 2.671 | 51  | 164131 | 1.063 | ppbv   | 100    |
| 4) Chloromethane              | 2.812 | 50  | 86683  | 1.060 | ppbv   | 100    |
| 5) Vinyl Chloride             | 2.915 | 62  | 78147  | 1.055 | ppbv   | 100    |
| 6) Bromomethane               | 3.118 | 94  | 38811  | 0.995 | ppbv   | 89     |
| 7) Chloroethane               | 3.195 | 64  | 27451  | 1.023 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 2.854 | 85  | 198669 | 1.039 | ppbv   | 99     |
| 9) Propene                    | 2.690 | 41  | 72231  | 1.074 | ppbv   | 95     |
| 10) Heptane                   | 7.574 | 43  | 148906 | 0.988 | ppbv   | 96     |
| 11) Trichlorofluoromethane    | 3.562 | 101 | 194775 | 1.044 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 4.063 | 101 | 141527 | 1.044 | ppbv   | 98     |
| 13) Ethanol                   | 3.256 | 45  | 3961   | 0.947 | ppbv # | 48     |
| 14) Bromoethene               | 3.359 | 108 | 55094  | 1.011 | ppbv # | 92     |
| 15) Acetone                   | 3.475 | 43  | 166255 | 1.140 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 2.980 | 39  | 67777m | 0.927 | ppbv   |        |
| 17) tert-Butyl alcohol        | 3.883 | 59  | 153265 | 1.198 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 3.873 | 96  | 58180  | 0.979 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.584 | 45  | 82398  | 1.168 | ppbv # | 91     |
| 20) Methylene Chloride        | 3.928 | 84  | 59394  | 1.107 | ppbv   | 96     |
| 21) Allyl Chloride            | 3.992 | 41  | 95568  | 1.061 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 4.446 | 96  | 60981m | 1.028 | ppbv   |        |
| 23) Vinyl Acetate             | 4.626 | 43  | 66087m | 0.964 | ppbv   |        |
| 24) 1,1-Dichloroethane        | 4.555 | 63  | 132214 | 1.002 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.205 | 43  | 316814 | 1.050 | ppbv   | 98     |
| 26) Hexane                    | 5.208 | 57  | 122113 | 1.053 | ppbv   | 94     |
| 27) Carbon Disulfide          | 4.121 | 76  | 125113 | 0.961 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 4.587 | 73  | 79309  | 1.062 | ppbv   | 98     |
| 29) Chloroform                | 5.269 | 83  | 197891 | 1.034 | ppbv   | 100    |
| 30) Cyclohexane               | 6.597 | 84  | 88127  | 0.946 | ppbv   | 89     |
| 31) cis-1,2-Dichloroethene    | 5.073 | 61  | 115115 | 1.032 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 186425 | 1.063 | ppbv   | 100    |
| 34) 2-Butanone                | 4.790 | 43  | 166525 | 1.004 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 6.491 | 117 | 187475 | 1.064 | ppbv   | 96     |
| 36) Benzene                   | 6.369 | 78  | 250318 | 1.014 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 5.803 | 62  | 144449 | 1.037 | ppbv   | 100    |
| 38) Trichloroethene           | 7.288 | 130 | 96191  | 1.010 | ppbv   | 93     |
| 39) 1,2-Dichloropropane       | 7.069 | 63  | 99780  | 1.023 | ppbv   | 91     |
| 40) 1,4-Dioxane               | 7.311 | 88  | 35039m | 1.014 | ppbv   |        |
| 41) Tetrahydrofuran           | 5.571 | 42  | 93643  | 0.989 | ppbv   | 99     |
| 42) Bromodichloromethane      | 7.246 | 83  | 188568 | 0.974 | ppbv   | 100    |
| 43) Methyl Methacrylate       | 7.478 | 69  | 78902  | 0.910 | ppbv   | 90     |
| 44) 2,2,4-Trimethylpentane    | 7.327 | 57  | 435343 | 1.041 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 8.709 | 75  | 70088m | 0.904 | ppbv   |        |

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 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Quant Time: Nov 08 00:10:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Reviewed By : Mahesh Dadoda 11/09/2024  
 Supervised By : Semsettin Yesilyurt 11/09/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.143  | 75   | 101425   | 0.901 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 104883   | 0.997 | ppbv   | 92       |
| 48) Dibromochloromethane      | 9.709  | 129  | 152757   | 0.952 | ppbv   | 99       |
| 49) Bromoform                 | 12.400 | 173  | 127488m  | 0.931 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.188  | 43   | 250885   | 0.985 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.571  | 43   | 165158   | 0.892 | ppbv # | 100      |
| 52) Tetrachloroethene         | 10.610 | 164  | 92977    | 1.102 | ppbv   | 93       |
| 53) Toluene                   | 9.217  | 91   | 253501   | 0.976 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.008 | 107  | 122096   | 0.994 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 11.510 | 131  | 133283   | 1.043 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.523 | 112  | 239417   | 1.047 | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.089 | 91   | 334939   | 0.986 | ppbv   | 91       |
| 59) m/p-Xylene                | 12.368 | 91   | 625077m  | 2.056 | ppbv   |          |
| 60) o-Xylene                  | 13.053 | 91   | 293793   | 1.012 | ppbv   | 100      |
| 61) Styrene                   | 12.892 | 104  | 102947   | 0.859 | ppbv   | 96       |
| 62) Isopropylbenzene          | 14.031 | 105  | 468382   | 1.045 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.047 | 83   | 226867   | 1.074 | ppbv   | 97       |
| 64) n-propylbenzene           | 14.915 | 120  | 115677   | 0.987 | ppbv   | 82       |
| 65) tert-Butylbenzene         | 16.092 | 119  | 424019   | 1.053 | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.326 | 91   | 26944m   | 0.929 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.638 | 105  | 596449   | 1.051 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 16.998 | 119  | 480893   | 1.048 | ppbv   | 99       |
| 70) n-Butylbenzene            | 17.889 | 91   | 484367   | 1.030 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 14.799 | 91   | 331921   | 1.024 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.191 | 105  | 327541   | 0.972 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 290287   | 0.982 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 16.111 | 105  | 360083   | 1.047 | ppbv # | 89       |
| 75) 1,3-Dichlorobenzene       | 16.326 | 146  | 218228   | 1.028 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 16.471 | 146  | 203100   | 0.973 | ppbv   | 95       |
| 77) 1,2-Dichlorobenzene       | 17.143 | 146  | 221404   | 1.050 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 22.632 | 225  | 190183m  | 1.140 | ppbv   |          |
| 79) Naphthalene               | 21.394 | 128  | 226301m  | 1.070 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.374 | 142  | 39140m   | 0.998 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.146 | 180  | 138641m  | 1.054 | ppbv   |          |

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

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Instrument :  
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