

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042255.D
 Acq On : 08 Apr 2025 10:05
 Operator : SY/MD
 Sample : VL0408ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0408ABS01

Quant Time: Apr 09 01:51:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/09/2025
 Supervised By : Mahesh Dadoda 04/09/2025

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

Internal Standards						
1) Bromochloromethane	2.803	49	190420	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	494678	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	447066	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 367418 10.008 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	273062	9.712	ppbv	99
3) Chlorodifluoromethane	1.483	51	292844	10.196	ppbv	100
4) Chloromethane	1.538	50	112659	9.805	ppbv	100
5) Vinyl Chloride	1.586	62	103863	8.530	ppbv	96
6) Bromomethane	1.674	94	45172	8.675	ppbv	97
7) Chloroethane	1.713	64	42251	9.161	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	232959	9.730	ppbv	93
9) Propene	1.489	41	111408	8.462	ppbv	99
10) Heptane	5.011	43	333061	9.511	ppbv	99
11) Trichlorofluoromethane	1.887	101	263188	9.620	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.150	101	211536	9.407	ppbv	98
13) Ethanol	1.729	45	6066	4.874	ppbv	82
14) Bromoethene	1.790	108	74695	8.671	ppbv	98
15) Acetone	1.842	43	235954	8.860	ppbv	95
16) 1,3-Butadiene	1.615	39	115796	8.904	ppbv	95
17) tert-Butyl alcohol	2.049	59	277654	8.371	ppbv	98
18) 1,1-Dichloroethene	2.043	96	93164	8.862	ppbv	97
19) Isopropyl Alcohol	1.894	45	129418	8.613	ppbv #	34
20) Methylene Chloride	2.072	84	83277	8.396	ppbv	95
21) Allyl Chloride	2.107	41	171013	9.105	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	106692	8.782	ppbv	93
23) Vinyl Acetate	2.476	43	98533	8.549	ppbv	97
24) 1,1-Dichloroethane	2.421	63	221032	9.814	ppbv	99
25) Ethyl Acetate	2.852	43	681132	9.854	ppbv	99
26) Hexane	2.842	57	254141	9.519	ppbv	95
27) Carbon Disulfide	2.159	76	258972	9.046	ppbv	99
28) Methyl tert-Butyl Ether	2.454	73	141395	8.506	ppbv	96
29) Chloroform	2.865	83	410522	10.507	ppbv	98
30) Cyclohexane	3.878	84	211231	9.112	ppbv	97
31) cis-1,2-Dichloroethene	2.735	61	251202	9.268	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	402513	8.998	ppbv	98
34) 2-Butanone	2.570	43	379327	10.575	ppbv	98
35) Carbon Tetrachloride	3.787	117	418420	10.828	ppbv	99
36) Benzene	3.677	78	518095	10.564	ppbv	98
37) 1,2-Dichloroethane	3.237	62	315190	11.226	ppbv	99
38) Trichloroethene	4.577	130	205867	10.061	ppbv	96
39) 1,2-Dichloropropane	4.341	63	185795	10.403	ppbv	94
40) 1,4-Dioxane	4.613	88	91079	9.608	ppbv #	92
41) Tetrahydrofuran	3.072	42	210024	10.168	ppbv	97
42) Bromodichloromethane	4.519	83	434165	11.217	ppbv	99
43) Methyl Methacrylate	4.910	69	192595	9.277	ppbv	98
44) 2,2,4-Trimethylpentane	4.668	57	886873	10.701	ppbv	98
45) t-1,3-Dichloropropene	6.448	75	184852	8.299	ppbv	97

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/09/2025
 Supervised By : Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	249791	9.149	ppbv	97
47) 1,1,2-Trichloroethane	6.613	97	210809	11.166	ppbv	98
48) Dibromochloromethane	7.412	129	348149	10.881	ppbv	99
49) Bromoform	9.503	173	307461	10.703	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	543140	9.554	ppbv	97
51) 2-Hexanone	7.461	43	441742	9.463	ppbv #	95
52) Tetrachloroethene	8.251	164	175587	9.028	ppbv	93
53) Toluene	6.962	91	578261	9.947	ppbv	99
54) 1,2-Dibromoethane	7.678	107	282386	10.730	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	283080	11.503	ppbv	98
57) Chlorobenzene	8.943	112	481713	11.360	ppbv	98
58) Ethyl Benzene	9.377	91	841166	10.593	ppbv	99
59) m/p-Xylene	9.571	91	1425833m	22.486	ppbv	
60) o-Xylene	9.982	91	711568	11.194	ppbv	98
61) Styrene	9.888	104	319155	10.149	ppbv	99
62) Isopropylbenzene	10.558	105	1063992	11.193	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	468851	12.139	ppbv	99
64) n-propylbenzene	11.005	120	284790	11.638	ppbv	97
65) tert-Butylbenzene	11.549	119	976872	11.112	ppbv	99
66) Benzyl Chloride	11.633	91	63988	6.860	ppbv	99
67) sec-Butylbenzene	11.785	105	1377726	11.275	ppbv	99
69) p-Isopropyltoluene	11.940	119	1168405	11.104	ppbv	99
70) n-Butylbenzene	12.296	91	1217247	11.312	ppbv	99
71) 2-Chlorotoluene	10.918	91	817332	11.078	ppbv	99
72) 4-Ethyltoluene	11.141	105	906994	11.460	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	773328	11.187	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	862179	10.827	ppbv	99
75) 1,3-Dichlorobenzene	11.623	146	512731	11.739	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	505049	11.619	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	505323	11.883	ppbv	99
78) Hexachloro-1,3-Butadiene	13.899	225	382876	8.845	ppbv	100
79) Naphthalene	13.530	128	875824	10.055	ppbv	99
80) Naphthalene,2-methyl-	14.475	142	291105	6.815	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	388605	9.672	ppbv	98

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

