

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 250149 9.969 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

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

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv	99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv #	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv	94
53) Toluene	6.933	91	419462	9.986	ppbv	99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv	97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv	96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv	99
59) m/p-Xylene	9.532	91	932801m	19.139	ppbv	
60) o-Xylene	9.966	91	464522	9.465	ppbv	99
61) Styrene	9.872	104	229869	9.813	ppbv	98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv	100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv	99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv	93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv	95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv	99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv	99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv	100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv	98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv	100
79) Naphthalene	13.513	128	647349	8.750	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv	99

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

