

Process Report

Order ID : Q3650

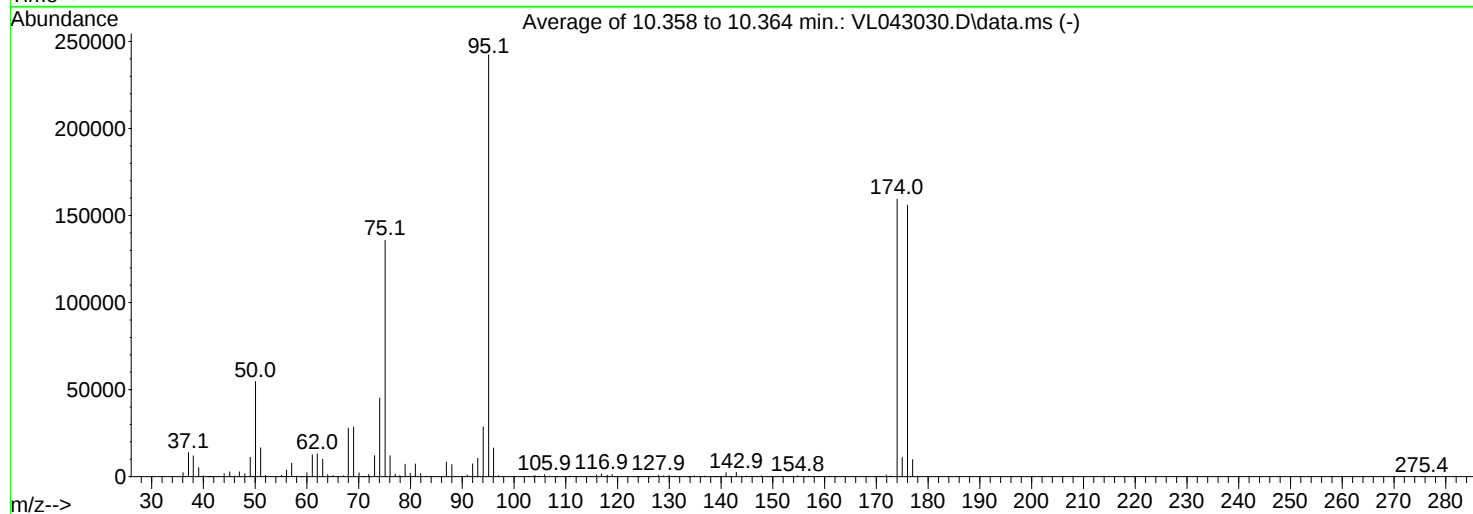
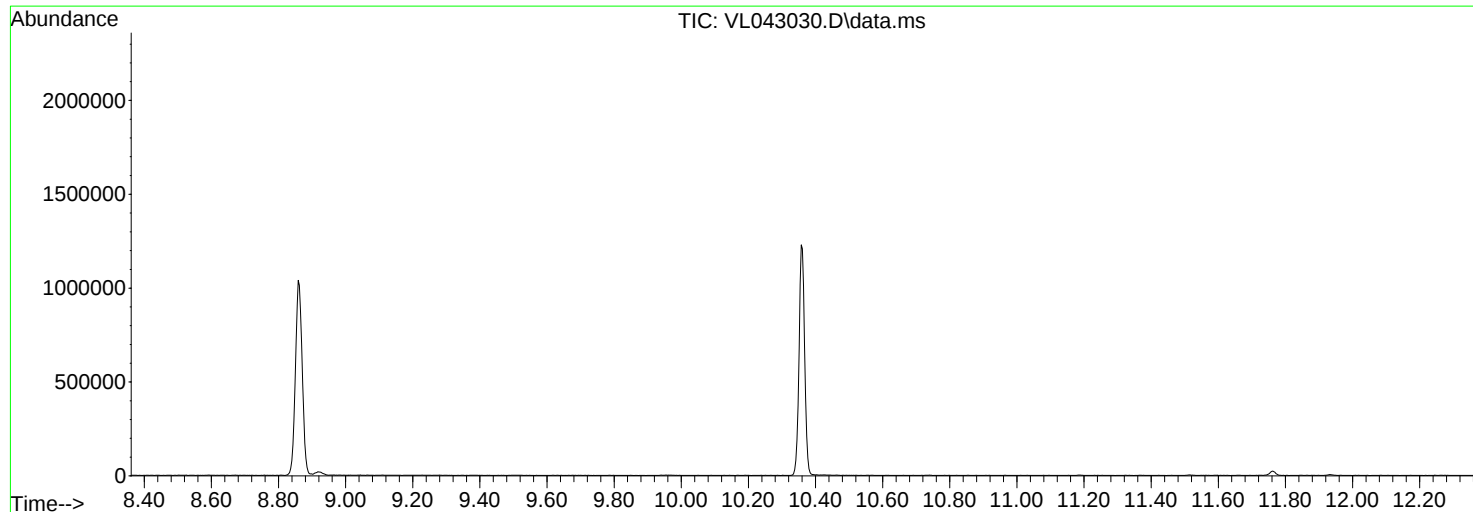
Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/17/2025	B2511012	Q3650-04	-3.5	10275	6 L	10550		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511012	Q3650-05	-5.1	10198	6 L	10579		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511012	Q3650-06	-3.9	10197	6 L	10525		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511013	Q3650-01	-4.7	10294	6 L	10511		C2510001	VL043082.D Seq :VL100925 TUNE : VL043078.D ICAL : VL043037.D CCAL : VL043079.D MB : VL043080.D
11/17/2025	B2511013	Q3650-02	-5.1	10279	6 L	10649		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D
11/17/2025	B2511013	Q3650-03	-3.9	10154	6 L	10502		C2509005	VL043047.D Seq :VL100625 TUNE : VL043043.D ICAL : VL043037.D CCAL : VL043044.D MB : VL043045.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043030.D
Acq On : 02 Oct 2025 09:11
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Oct 03 08:23:34 2025



AutoFind: Scans 3173, 3174, 3175; Background Corrected with Scan 3150

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.6	54675	PASS
75	95	30	66	56.0	135808	PASS
95	95	100	100	100.0	242325	PASS
96	95	5	9	6.8	16496	PASS
173	174	0.00	2	0.3	425	PASS
174	95	50	120	65.8	159467	PASS
175	174	4	9	6.9	10992	PASS
176	174	93	101	97.8	156032	PASS
177	176	5	9	6.3	9819	PASS

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	2330	46.00	250	57.05	7765	68.00	2792
37.10	13813	46.95	2788	58.05	341	69.00	2847
38.05	11973	48.00	1655	58.90	23	70.05	217
39.10	5249	49.05	11158	60.00	2342	70.90	4
39.95	499	50.05	54675	61.05	12524	71.95	1265
40.85	55	51.05	16585	62.00	13090	73.05	12010
41.20	34	52.00	716	63.05	10089	74.05	45096
41.70	41	52.90	129	64.00	1213	75.10	135808
42.95	81	54.05	98	65.05	689	76.05	12035
44.00	1684	55.10	722	66.00	121	77.05	1348
45.10	2730	56.05	3773	67.05	550	77.80	302

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.95	470	90.95	1003	105.90	1116	115.05	175
78.95	7200	92.00	7351	106.90	274	115.95	1031
79.95	2063	93.00	10598	108.20	33	116.90	1577
80.95	7288	94.05	28587	109.80	55	118.00	866
81.95	1746	95.10	242325	110.10	57	118.95	1306
83.15	295	96.05	16496	110.60	86	119.90	24
85.80	79	97.00	519	110.90	247	123.15	68
86.10	77	103.00	84	111.80	125	123.80	49
86.95	8373	103.80	409	112.10	47	124.10	45
88.00	7029	104.05	570	112.85	231	125.00	87
88.70	108	104.80	377	114.80	216	125.90	51

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.10	36	136.85	338	146.10	106	156.85	394
126.90	57	138.80	48	146.90	145	157.80	61
127.90	861	139.90	127	147.80	477	158.70	92
128.85	474	140.10	57	148.00	163	158.90	179
129.95	745	140.95	2272	148.90	139	160.60	61
130.95	284	141.85	274	149.75	245	160.95	263
131.70	18	142.95	2445	151.85	217	170.55	65
133.70	47	144.00	140	152.90	112	170.95	95
133.90	37	144.90	270	153.85	189	171.90	906
134.85	499	145.75	191	154.85	593	172.80	425
136.10	34	145.90	163	156.10	138	174.00	159467

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	10992						
176.00	156032						
177.00	9819						
178.00	298						
275.40	22						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043031.D
 Acq On : 02 Oct 2025 09:50
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:00:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	172062	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	504004	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	415115	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 301605 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	15037	0.519	ppbv	97
3) Chlorodifluoromethane	1.470	51	14848	0.529	ppbv	96
4) Chloromethane	1.528	50	5542	0.523	ppbv	91
5) Vinyl Chloride	1.573	62	5205	0.518	ppbv	99
6) Bromomethane	1.660	94	2235	0.495	ppbv	87
7) Chloroethane	1.696	64	2228	0.531	ppbv	94
8) Dichlorotetrafluoroethane	1.547	85	12294	0.517	ppbv	99
9) Propene	1.479	41	5652	0.500	ppbv	95
10) Heptane	4.949	43	11455m	0.411	ppbv	
11) Trichlorofluoromethane	1.871	101	15230	0.511	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.130	101	12463	0.531	ppbv	99
13) Ethanol	1.716	45	729	0.509	ppbv #	31
14) Bromoethene	1.774	108	4364	0.519	ppbv #	91
15) Acetone	1.829	43	14360	0.596	ppbv	100
16) 1,3-Butadiene	1.602	39	5235	0.527	ppbv	97
17) tert-Butyl alcohol	2.033	59	14304	0.561	ppbv	96
18) 1,1-Dichloroethene	2.026	96	5223	0.508	ppbv	93
19) Isopropyl Alcohol	1.877	45	6611	0.573	ppbv #	32
20) Methylene Chloride	2.052	84	6961	0.662	ppbv	92
21) Allyl Chloride	2.088	41	8450	0.547	ppbv	97
22) trans-1,2-Dichloroethene	2.327	96	6223	0.533	ppbv	89
23) Vinyl Acetate	2.447	43	3334	0.652	ppbv #	82
24) 1,1-Dichloroethane	2.398	63	11586	0.523	ppbv	99
25) Ethyl Acetate	2.822	43	28090	0.465	ppbv	98
26) Hexane	2.813	57	10845	0.466	ppbv	92
27) Carbon Disulfide	2.140	76	14458	0.527	ppbv #	36
28) Methyl tert-Butyl Ether	2.431	73	7340	0.505	ppbv	94
29) Chloroform	2.835	83	20586	0.519	ppbv	97
30) Cyclohexane	3.839	84	8149	0.427	ppbv	93
31) cis-1,2-Dichloroethene	2.706	61	11430	0.478	ppbv	95
32) 1,1,1-Trichloroethane	3.350	97	18962	0.492	ppbv	97
34) 2-Butanone	2.547	43	17736	0.519	ppbv	100
35) Carbon Tetrachloride	3.742	117	20564	0.496	ppbv	93
36) Benzene	3.638	78	22717	0.472	ppbv	93
37) 1,2-Dichloroethane	3.204	62	14711	0.516	ppbv	98
38) Trichloroethene	4.515	130	10181m	0.507	ppbv	
39) 1,2-Dichloropropane	4.289	63	9070	0.508	ppbv #	86
40) 1,4-Dioxane	4.570	88	3676m	0.480	ppbv	
41) Tetrahydrofuran	3.046	42	7477	0.423	ppbv	95
42) Bromodichloromethane	4.463	83	20614	0.512	ppbv #	97
43) Methyl Methacrylate	4.852	69	7092	0.444	ppbv	91
44) 2,2,4-Trimethylpentane	4.616	57	34977	0.453	ppbv	96
45) t-1,3-Dichloropropene	6.376	75	6760m	0.467	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043031.D
 Acq On : 02 Oct 2025 09:50
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:00:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.561	75	9423m	0.458	ppbv	
47) 1,1,2-Trichloroethane	6.551	97	10438	0.526	ppbv	91
48) Dibromochloromethane	7.357	129	15360	0.474	ppbv	94
49) Bromoform	9.461	173	12398	0.458	ppbv	95
50) 4-Methyl-2-Pentanone	5.726	43	18115	0.434	ppbv	100
51) 2-Hexanone	7.418	43	11043m	0.373	ppbv	
52) Tetrachloroethene	8.205	164	8537	0.476	ppbv	94
53) Toluene	6.904	91	19917m	0.410	ppbv	
54) 1,2-Dibromoethane	7.626	107	11279	0.479	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.901	131	13091	0.517	ppbv #	1
57) Chlorobenzene	8.898	112	22573	0.514	ppbv	95
58) Ethyl Benzene	9.335	91	25575	0.398	ppbv	96
59) m/p-Xylene	9.529	91	42005m	0.774	ppbv	
60) o-Xylene	9.943	91	21166	0.392	ppbv	97
61) Styrene	9.849	104	8258	0.365	ppbv	98
62) Isopropylbenzene	10.522	105	34761	0.419	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.943	83	19066	0.490	ppbv	99
64) n-propylbenzene	10.972	120	7963	0.375	ppbv	87
65) tert-Butylbenzene	11.516	119	28729	0.389	ppbv	97
66) Benzyl Chloride	11.600	91	1321	0.462	ppbv #	92
67) sec-Butylbenzene	11.752	105	39676	0.385	ppbv	98
69) p-Isopropyltoluene	11.911	119	31118	0.371	ppbv	98
70) n-Butylbenzene	12.267	91	28253	0.350	ppbv	95
71) 2-Chlorotoluene	10.885	91	24004	0.400	ppbv	98
72) 4-Ethyltoluene	11.108	105	23762	0.369	ppbv #	96
73) 1,3,5-Trimethylbenzene	11.186	105	21617	0.389	ppbv	98
74) 1,2,4-Trimethylbenzene	11.523	105	23511	0.374	ppbv	88
75) 1,3-Dichlorobenzene	11.590	146	19346	0.474	ppbv	99
76) 1,4-Dichlorobenzene	11.655	146	17115	0.440	ppbv	98
77) 1,2-Dichlorobenzene	11.934	146	19742	0.485	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	14174	0.500	ppbv	99
79) Naphthalene	13.500	128	12682	0.479	ppbv #	96
80) Naphthalene,2-methyl-	14.442	142	13384	1.165	ppbv	95
81) 1,2,4-Trichlorobenzene	13.426	180	7952	0.329	ppbv	99

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL100225AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri Oct 03 08:23:34 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL043037.D 0.1 =VL043036.D 0.5 =VL043031.D 1 =VL043034.D 2 =VL043033.D 10 =VL043032.D 15 =VL043038.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.748	1.803	1.698	1.587	1.591	1.685	5.66
3) Chlorodifluoro...			1.726	1.701	1.684	1.527	1.513	1.630	6.23
4) Chloromethane			0.644	0.663	0.614	0.577	0.580	0.616	6.17
5) T Vinyl Chloride	0.573	0.687	0.605	0.573	0.564	0.539	0.548	0.584	8.59
6) T Bromomethane			0.260	0.283	0.270	0.248	0.252	0.263	5.35
7) Chloroethane			0.259	0.257	0.256	0.223	0.224	0.244	7.62
8) T Dichlorotetra...			1.429	1.430	1.438	1.301	1.307	1.381	5.09
9) T Propene			0.657	0.691	0.697	0.633	0.609	0.657	5.69
10) T Heptane			1.331	1.565	1.650	1.760	1.776	1.616	11.19
11) T Trichlorofluor...			1.770	1.866	1.761	1.621	1.642	1.732	5.83
12) T 1,1,2-Trichlor...			1.449	1.410	1.392	1.284	1.286	1.364	5.50
13) Ethanol			0.085	0.049	0.041	0.027	0.026	0.045#	52.72
14) T Bromoethene			0.507	0.499	0.501	0.469	0.469	0.489	3.80
15) T Acetone			1.669	1.561	1.472	1.143	1.155	1.400	17.12
16) T 1,3-Butadiene			0.609	0.587	0.611	0.536	0.543	0.577	6.17
17) tert-Butyl alc...			1.663	1.586	1.437	1.377	1.344	1.481	9.28
18) T 1,1-Dichloroet...			0.607	0.626	0.610	0.575	0.572	0.598	3.90
19) T Isopropyl Alcohol			0.768	0.727	0.667	0.603	0.589	0.671	11.56
20) T Methylene Chlo...			0.809	0.684	0.577	0.490	0.496	0.611	22.19
21) T Allyl Chloride			0.982	0.888	0.920	0.843	0.852	0.897	6.32
22) T trans-1,2-Dich...			0.723	0.713	0.676	0.635	0.648	0.679	5.74
23) T Vinyl Acetate			0.388	0.316	0.308	0.244	0.231	0.297	21.19
24) T 1,1-Dichloroet...			1.347	1.365	1.295	1.206	1.221	1.287	5.57
25) T Ethyl Acetate			3.265	3.663	3.644	3.520	3.471	3.513	4.56
26) T Hexane			1.261	1.271	1.413	1.401	1.411	1.351	5.80
27) T Carbon Disulfide			1.681	1.655	1.576	1.521	1.543	1.595	4.37
28) T Methyl tert-Bu...			0.853	0.872	0.868	0.823	0.813	0.846	3.14
29) T Chloroform			2.393	2.395	2.326	2.206	2.199	2.304	4.19
30) T Cyclohexane			0.947	1.068	1.145	1.191	1.200	1.110	9.46
31) T cis-1,2-Dichlo...			1.329	1.390	1.436	1.403	1.388	1.389	2.79
32) T 1,1,1-Trichlor...	2.543	2.098	2.204	2.216	2.255	2.170	2.186	2.239	6.38

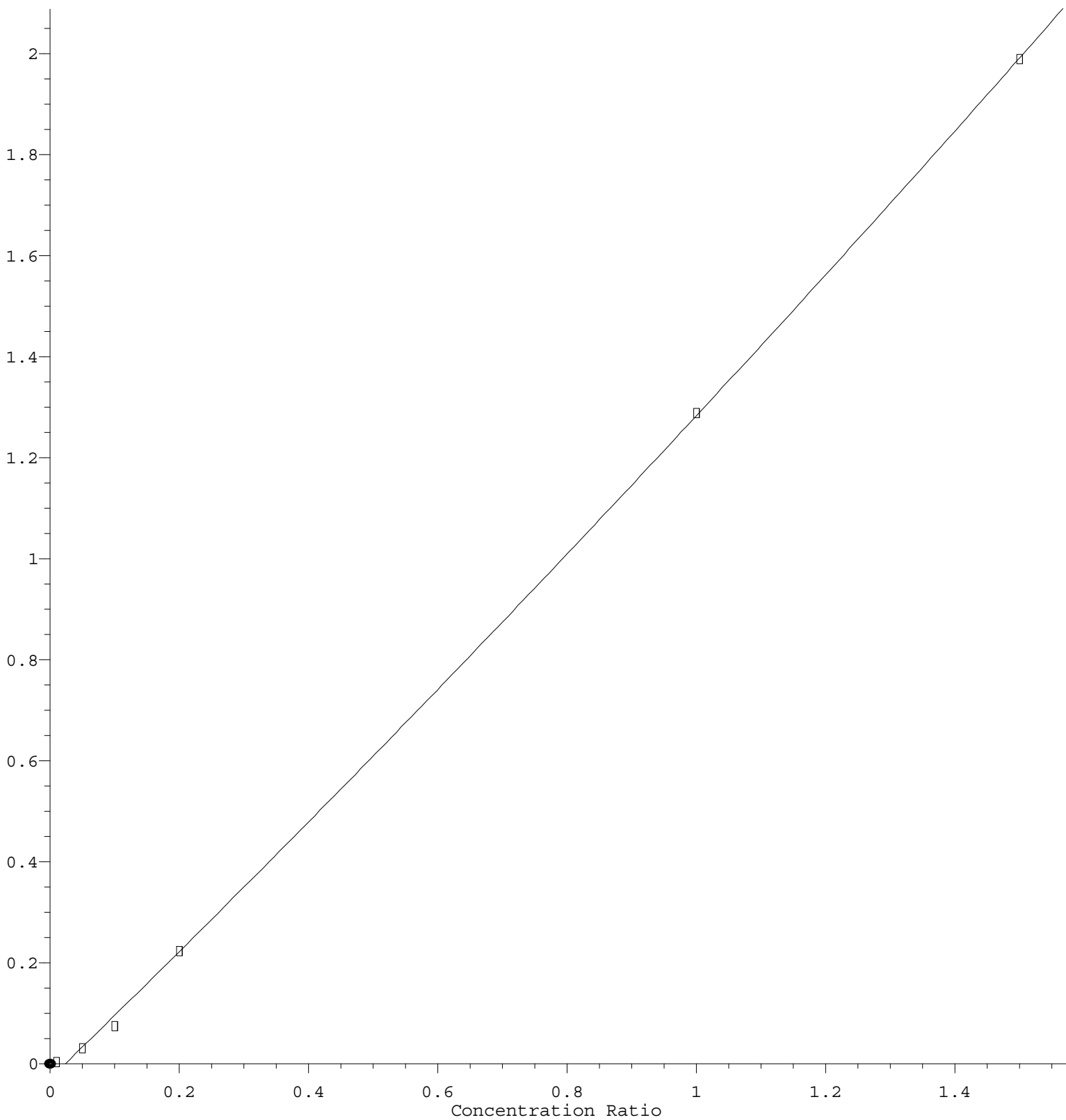
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.704	0.685	0.695	0.655	0.654	0.679	3.42
35) T Carbon Tetrach...	1.006	0.828	0.816	0.805	0.770	0.761	0.773	0.823	10.30
36) T Benzene			0.901	0.984	0.971	0.964	0.957	0.955	3.32
37) T 1,2-Dichloroet...			0.584	0.577	0.570	0.547	0.551	0.566	2.79
38) T Trichloroethene	0.355	0.386	0.404	0.424	0.402	0.409	0.407	0.398	5.58
39) T 1,2-Dichloropr...			0.360	0.362	0.354	0.350	0.345	0.354	2.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL100225AIR.M									
40) T	1,4-Dioxane		0.146	0.151	0.152	0.157	0.154	0.152	2.71
41) T	Tetrahydrofuran		0.297	0.338	0.365	0.376	0.378	0.351	9.74
42) T	Bromodichlorom...		0.818	0.805	0.791	0.788	0.793	0.799	1.55
43) T	Methyl Methacr...		0.281	0.286	0.308	0.353	0.358	0.317	11.50
44) T	2,2,4-Trimethy...		1.388	1.494	1.589	1.593	1.601	1.533	6.01
45) T	t-1,3-Dichloro...		0.268	0.268	0.279	0.314	0.322	0.290	8.91
46) T	cis-1,3-Dichlo...		0.374	0.386	0.396	0.440	0.449	0.409	8.23
47) T	1,1,2-Trichlor...		0.414	0.405	0.395	0.376	0.379	0.394	4.18
48) T	Dibromochlorom...		0.610	0.644	0.644	0.661	0.655	0.643	3.10
49) T	Bromoform		0.492	0.516	0.542	0.560	0.575	0.537	6.24
50) T	4-Methyl-2-Pen...		0.719	0.763	0.820	0.910	0.926	0.827	10.90
51) T	2-Hexanone		0.438	0.515	0.578	0.693	0.720	0.589	20.15
52) T	Tetrachloroethene	0.424 0.328	0.339	0.343	0.352	0.345	0.346	0.354	9.02
53) T	Toluene		0.790	0.881	0.966	1.087	1.099	0.965	13.74
54) T	1,2-Dibromoethane	0.445	0.448	0.472	0.471	0.481	0.484	0.467	3.56
-----ISTD-----									
55) I	Chlorobenzene-d5								
56) T	1,1,1,2-Tetrac...		0.631	0.623	0.614	0.591	0.590	0.610	3.04
57) T	Chlorobenzene		1.088	1.096	1.086	1.015	1.002	1.057	4.24
58) T	Ethyl Benzene		1.232	1.379	1.598	1.759	1.778	1.549	15.41
59) T	m/p-Xylene		1.012	1.231	1.401	1.443	1.446	1.307	14.29
60) T	o-Xylene		1.020	1.216	1.385	1.439	1.448	1.302	14.07
61) T	Styrene		0.398	0.449	0.523	0.666	0.691	0.545	23.81
62) T	Isopropylbenzene		1.675	1.919	2.082	2.141	2.174	1.998	10.30
63) T	1,1,2,2-Tetrac...	1.080 0.884	0.919	0.949	0.949	0.870	0.886	0.934	7.66
64) T	n-propylbenzene		0.384	0.491	0.540	0.562	0.579	0.511	15.38
65) T	tert-Butylbenzene		1.384	1.730	1.932	1.928	1.918	1.778	13.28
66) T	Benzyl Chloride		0.064	0.066	0.066	0.069	0.075	0.068	6.61
67) T	sec-Butylbenzene		1.912	2.476	2.742	2.652	2.626	2.482	13.41
68) S	1-Bromo-4-Fluo...	0.688 0.692	0.727	0.726	0.732	0.735	0.743	0.720	3.00
69) T	p-Isopropyltol...		1.499	1.879	2.234	2.250	2.231	2.019	16.33
70) T	n-Butylbenzene		1.361	1.776	2.148	2.222	2.212	1.944	19.22
71) T	2-Chlorotoluene		1.156	1.348	1.522	1.583	1.621	1.446	13.34
72) T	4-Ethyltoluene		1.145	1.426	1.647	1.751	1.778	1.549	17.12
73) T	1,3,5-Trimethy...		1.041	1.271	1.423	1.470	1.496	1.340	14.06
74) T	1,2,4-Trimethy...		1.133	1.492	1.676	1.633	1.630	1.513	14.77
75) T	1,3-Dichlorobe...		0.932	0.986	1.031	0.976	0.994	0.984	3.60
76) T	1,4-Dichlorobe...		0.825	0.929	0.990	0.967	0.980	0.938	7.20
77) T	1,2-Dichlorobe...		0.951	1.037	1.036	0.930	0.945	0.980	5.35
78) T	Hexachloro-1,3...		0.683	0.705	0.731	0.645	0.650	0.683	5.29
79) T	Naphthalene	0.333	0.611	0.746	1.115	1.288	1.326	0.903	44.50
80) T	Naphthalene,2-...		0.645	0.167	0.278	0.567	0.629	0.457	48.04
81) T	1,2,4-Trichlor...		0.383	0.476	0.629	0.696	0.731	0.583	25.49

(#) = Out of Range

Naphthalene

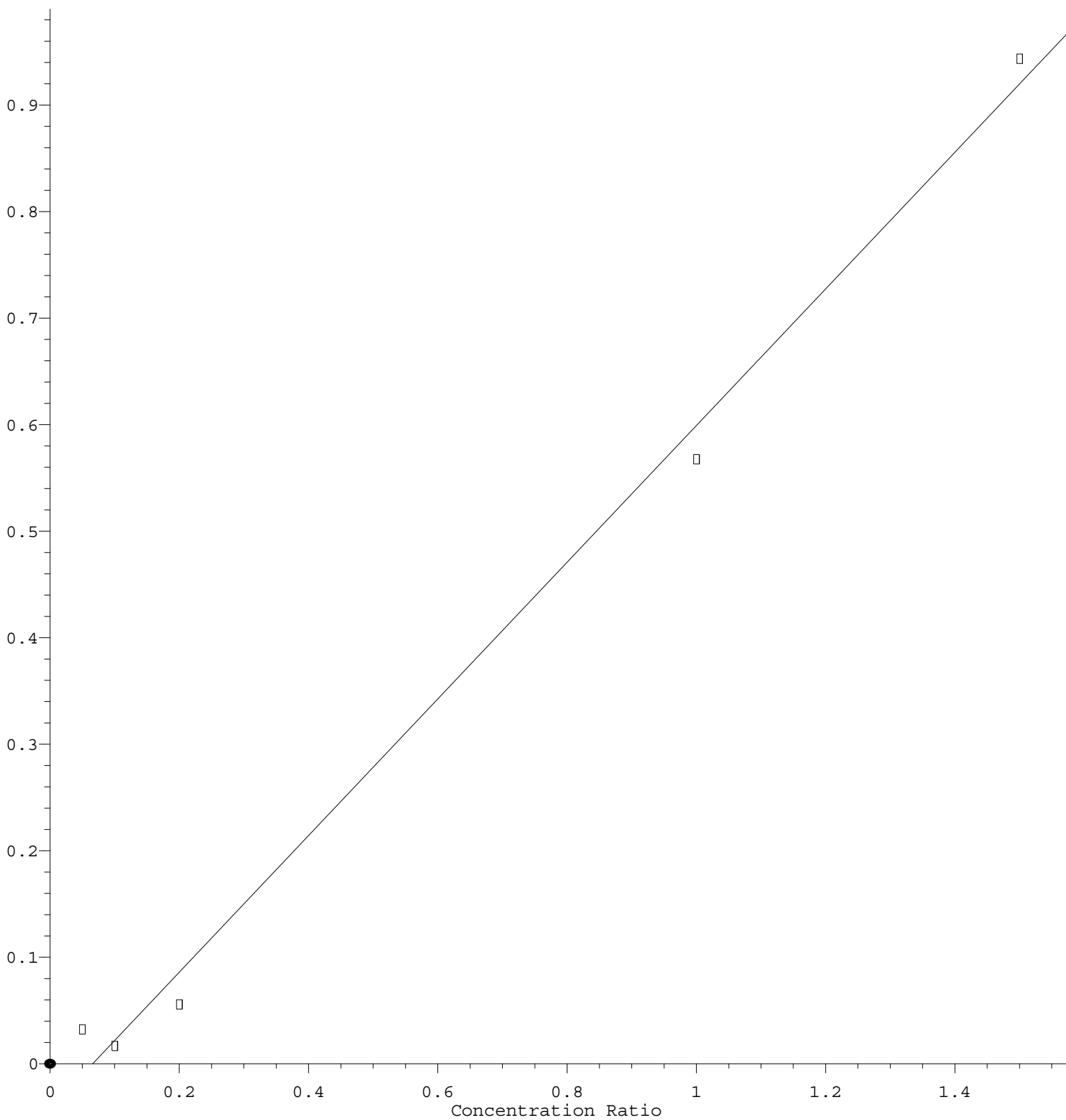
Response Ratio



$R = 6.981e-002 A^2 + 1.242e+000 A - 2.912e-002$
 Coef of Det (r^2) = 0.999745 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL100225AIR.M
 Calibration Table Last Updated: Fri Oct 03 08:23:34 2025

Naphthalene, 2-methyl-

Response Ratio



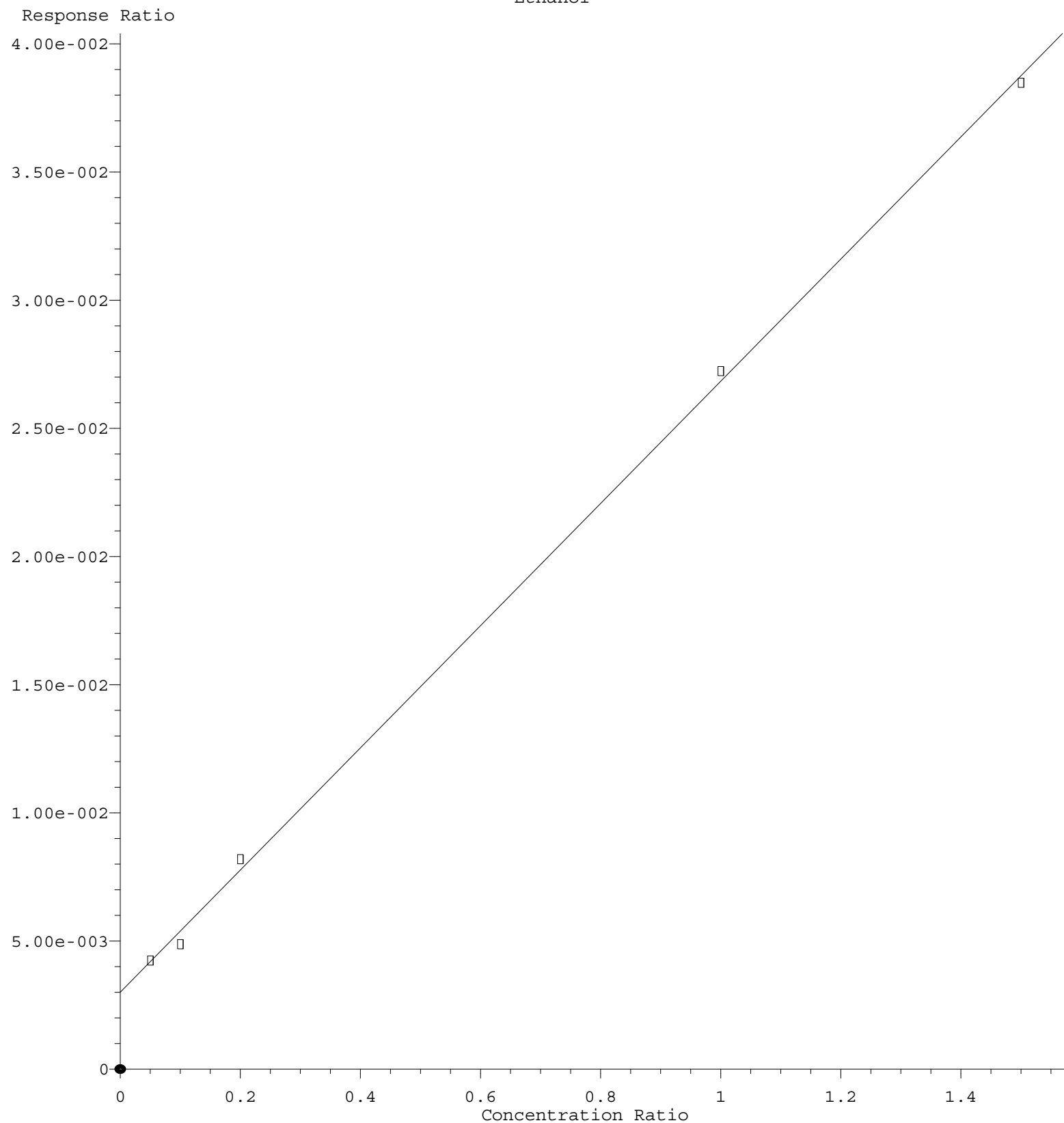
$$\text{Response} = 6.413\text{e-}001 * \text{Amt} - 4.246\text{e-}002$$

Coef of Det (r^2) = 0.993798 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL100225AIR.M

Calibration Table Last Updated: Fri Oct 03 08:23:34 2025

Ethanol



Response = 2.382e-002 * Amt + 3.025e-003
 Coef of Det (r^2) = 0.999298 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL100225AIR.M
 Calibration Table Last Updated: Fri Oct 03 08:23:34 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043032.D
 Acq On : 02 Oct 2025 10:23
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:01:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	175694	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	523534	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	448396	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.361 95 329578 10.203 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	278856	9.417	ppbv	100
3) Chlorodifluoromethane	1.473	51	268344	9.368	ppbv	100
4) Chloromethane	1.528	50	101430	9.378	ppbv	100
5) Vinyl Chloride	1.576	62	94623	9.218	ppbv	100
6) Bromomethane	1.664	94	43581	9.448	ppbv	100
7) Chloroethane	1.699	64	39123	9.134	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	228586	9.421	ppbv	100
9) Propene	1.479	41	111264	9.633	ppbv	100
10) Heptane	4.956	43	309134	10.867	ppbv	100
11) Trichlorofluoromethane	1.871	101	284734	9.357	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	225532	9.410	ppbv	100
13) Ethanol	1.716	45	4785	10.163	ppbv	100
14) Bromoethene	1.777	108	82329	9.582	ppbv	100
15) Acetone	1.829	43	200896	8.166	ppbv	100
16) 1,3-Butadiene	1.606	39	94239	9.292	ppbv	100
17) tert-Butyl alcohol	2.033	59	241909	9.297	ppbv	100
18) 1,1-Dichloroethene	2.026	96	101035	9.617	ppbv	100
19) Isopropyl Alcohol	1.877	45	105917	8.986	ppbv	100
20) Methylene Chloride	2.052	84	86085	8.017	ppbv	100
21) Allyl Chloride	2.088	41	148094	9.397	ppbv	100
22) trans-1,2-Dichloroethene	2.331	96	111481	9.346	ppbv	100
23) Vinyl Acetate	2.450	43	42908	8.216	ppbv	100
24) 1,1-Dichloroethane	2.399	63	211973	9.375	ppbv	100
25) Ethyl Acetate	2.819	43	618469	10.022	ppbv	100
26) Hexane	2.813	57	246127	10.368	ppbv	100
27) Carbon Disulfide	2.143	76	267294	9.537	ppbv	100
28) Methyl tert-Butyl Ether	2.428	73	144534	9.729	ppbv	100
29) Chloroform	2.836	83	387615	9.577	ppbv	100
30) Cyclohexane	3.839	84	209266	10.728	ppbv	100
31) cis-1,2-Dichloroethene	2.709	61	246505	10.101	ppbv	100
32) 1,1,1-Trichloroethane	3.353	97	381212	9.691	ppbv	100
34) 2-Butanone	2.544	43	342678	9.647	ppbv	100
35) Carbon Tetrachloride	3.745	117	398481	9.251	ppbv	100
36) Benzene	3.638	78	504680	10.090	ppbv	100
37) 1,2-Dichloroethane	3.201	62	286590	9.674	ppbv	100
38) Trichloroethene	4.525	130	214186	10.277	ppbv	100
39) 1,2-Dichloropropane	4.292	63	182987	9.870	ppbv	100
40) 1,4-Dioxane	4.554	88	82195	10.324	ppbv #	98
41) Tetrahydrofuran	3.036	42	196992	10.730	ppbv	100
42) Bromodichloromethane	4.467	83	412493	9.861	ppbv	100
43) Methyl Methacrylate	4.852	69	184960	11.139	ppbv	100
44) 2,2,4-Trimethylpentane	4.616	57	834185	10.393	ppbv	100
45) t-1,3-Dichloropropene	6.386	75	164433	10.931	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043032.D
 Acq On : 02 Oct 2025 10:23
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:01:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	230231	10.772	ppbv	100
47) 1,1,2-Trichloroethane	6.551	97	196990	9.552	ppbv	100
48) Dibromochloromethane	7.364	129	345945	10.278	ppbv	100
49) Bromoform	9.464	173	292987	10.423	ppbv	100
50) 4-Methyl-2-Pentanone	5.713	43	476242	10.994	ppbv	100
51) 2-Hexanone	7.412	43	362983	11.817	ppbv	100
52) Tetrachloroethene	8.205	164	180664	9.693	ppbv	100
53) Toluene	6.907	91	568843	11.265	ppbv	100
54) 1,2-Dibromoethane	7.629	107	251974	10.309	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.907	131	264925	9.693	ppbv	100
57) Chlorobenzene	8.904	112	455049	9.600	ppbv	100
58) Ethyl Benzene	9.338	91	788510	11.351	ppbv	100
59) m/p-Xylene	9.532	91	1293839m	22.074	ppbv	
60) o-Xylene	9.946	91	645403	11.058	ppbv	100
61) Styrene	9.853	104	298597	12.212	ppbv	100
62) Isopropylbenzene	10.526	105	960158	10.716	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.946	83	390289	9.278	ppbv	100
64) n-propylbenzene	10.976	120	252073	10.998	ppbv	99
65) tert-Butylbenzene	11.516	119	864475	10.841	ppbv	100
66) Benzyl Chloride	11.604	91	30823	9.975	ppbv	100
67) sec-Butylbenzene	11.752	105	1189296	10.688	ppbv	100
69) p-Isopropyltoluene	11.914	119	1008951	11.146	ppbv	100
70) n-Butylbenzene	12.267	91	996449	11.433	ppbv	100
71) 2-Chlorotoluene	10.885	91	709807	10.946	ppbv	100
72) 4-Ethyltoluene	11.112	105	785118	11.302	ppbv	100
73) 1,3,5-Trimethylbenzene	11.189	105	659038	10.966	ppbv	100
74) 1,2,4-Trimethylbenzene	11.523	105	732252	10.796	ppbv	100
75) 1,3-Dichlorobenzene	11.594	146	437848	9.925	ppbv	100
76) 1,4-Dichlorobenzene	11.659	146	433712	10.311	ppbv	100
77) 1,2-Dichlorobenzene	11.934	146	417019	9.491	ppbv	100
78) Hexachloro-1,3-Butadiene	13.869	225	289398	9.452	ppbv	100
79) Naphthalene	13.500	128	577659	10.038	ppbv	100
80) Naphthalene,2-methyl-	14.445	142	254437	9.510	ppbv	100
81) 1,2,4-Trichlorobenzene	13.429	180	312011	11.936	ppbv	100

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

Manual Integrations APPROVED

Quant Time: Oct 03 08:01:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043033.D
 Acq On : 02 Oct 2025 10:57
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:02:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	179740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	541054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	447624	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 327830 10.167 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	61057	2.016	ppbv	97
3) Chlorodifluoromethane	1.470	51	60544	2.066	ppbv	97
4) Chloromethane	1.528	50	22071	1.995	ppbv	98
5) Vinyl Chloride	1.573	62	20286	1.932	ppbv	98
6) Bromomethane	1.661	94	9696	2.055	ppbv	97
7) Chloroethane	1.696	64	9205	2.101	ppbv	96
8) Dichlorotetrafluoroethane	1.547	85	51709	2.083	ppbv	98
9) Propene	1.479	41	25044	2.119	ppbv	93
10) Heptane	4.952	43	59306	2.038	ppbv	98
11) Trichlorofluoromethane	1.871	101	63315	2.034	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	50042	2.041	ppbv	100
13) Ethanol	1.716	45	1472	2.168	ppbv #	58
14) Bromoethene	1.774	108	18006	2.048	ppbv	98
15) Acetone	1.829	43	52918	2.103	ppbv	95
16) 1,3-Butadiene	1.602	39	21968	2.117	ppbv	96
17) tert-Butyl alcohol	2.030	59	51640	1.940	ppbv	98
18) 1,1-Dichloroethene	2.023	96	21932	2.040	ppbv	98
19) Isopropyl Alcohol	1.877	45	23979	1.989	ppbv #	80
20) Methylene Chloride	2.052	84	20728	1.887	ppbv	95
21) Allyl Chloride	2.085	41	33088	2.052	ppbv	98
22) trans-1,2-Dichloroethene	2.331	96	24306	1.992	ppbv	95
23) Vinyl Acetate	2.450	43	11081	2.074	ppbv #	92
24) 1,1-Dichloroethane	2.395	63	46548	2.012	ppbv	99
25) Ethyl Acetate	2.819	43	130995	2.075	ppbv	99
26) Hexane	2.813	57	50777	2.091	ppbv	96
27) Carbon Disulfide	2.140	76	56650	1.976	ppbv #	70
28) Methyl tert-Butyl Ether	2.428	73	31189	2.052	ppbv	99
29) Chloroform	2.832	83	83628	2.020	ppbv	99
30) Cyclohexane	3.836	84	41150	2.062	ppbv	96
31) cis-1,2-Dichloroethene	2.706	61	51609	2.067	ppbv	95
32) 1,1,1-Trichloroethane	3.350	97	81078	2.015	ppbv	99
34) 2-Butanone	2.544	43	75222	2.049	ppbv	100
35) Carbon Tetrachloride	3.739	117	83331	1.872	ppbv	98
36) Benzene	3.635	78	105052	2.032	ppbv	98
37) 1,2-Dichloroethane	3.201	62	61665	2.014	ppbv	100
38) Trichloroethene	4.519	130	43500	2.020	ppbv	98
39) 1,2-Dichloropropane	4.289	63	38286	1.998	ppbv	97
40) 1,4-Dioxane	4.564	88	16471m	2.002	ppbv	
41) Tetrahydrofuran	3.043	42	39501	2.082	ppbv	98
42) Bromodichloromethane	4.464	83	85622	1.981	ppbv	94
43) Methyl Methacrylate	4.852	69	33288	1.940	ppbv	96
44) 2,2,4-Trimethylpentane	4.609	57	171998	2.074	ppbv	99
45) t-1,3-Dichloropropene	6.383	75	30227	1.944	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043033.D
 Acq On : 02 Oct 2025 10:57
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:02:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.567	75	42818	1.938	ppbv	90
47) 1,1,2-Trichloroethane	6.548	97	42719	2.004	ppbv	93
48) Dibromochloromethane	7.357	129	69735	2.005	ppbv	100
49) Bromoform	9.461	173	58655	2.019	ppbv	99
50) 4-Methyl-2-Pentanone	5.719	43	88751	1.982	ppbv	100
51) 2-Hexanone	7.412	43	62520	1.969	ppbv #	96
52) Tetrachloroethene	8.202	164	38059	1.976	ppbv	97
53) Toluene	6.907	91	104582	2.004	ppbv	100
54) 1,2-Dibromoethane	7.629	107	50973	2.018	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.901	131	54924	2.013	ppbv	95
57) Chlorobenzene	8.901	112	97190	2.054	ppbv	99
58) Ethyl Benzene	9.335	91	143037	2.063	ppbv	97
59) m/p-Xylene	9.529	91	250936m	4.289	ppbv	
60) o-Xylene	9.946	91	124006	2.128	ppbv	98
61) Styrene	9.849	104	46782	1.917	ppbv	98
62) Isopropylbenzene	10.523	105	186358	2.084	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.943	83	84916	2.022	ppbv	99
64) n-propylbenzene	10.972	120	48346	2.113	ppbv	90
65) tert-Butylbenzene	11.516	119	172968	2.173	ppbv	99
66) Benzyl Chloride	11.597	91	5886	1.908	ppbv	99
67) sec-Butylbenzene	11.752	105	245463	2.210	ppbv	99
69) p-Isopropyltoluene	11.911	119	200038	2.214	ppbv	99
70) n-Butylbenzene	12.267	91	192286	2.210	ppbv	98
71) 2-Chlorotoluene	10.885	91	136276	2.105	ppbv	99
72) 4-Ethyltoluene	11.108	105	147421	2.126	ppbv	99
73) 1,3,5-Trimethylbenzene	11.186	105	127419	2.124	ppbv	94
74) 1,2,4-Trimethylbenzene	11.519	105	150033	2.216	ppbv	98
75) 1,3-Dichlorobenzene	11.591	146	92272	2.095	ppbv	99
76) 1,4-Dichlorobenzene	11.655	146	88602	2.110	ppbv	99
77) 1,2-Dichlorobenzene	11.930	146	92779	2.115	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	65408	2.140	ppbv	99
79) Naphthalene	13.500	128	99793	2.006	ppbv	97
80) Naphthalene,2-methyl-	14.445	142	24913	1.530	ppbv	92
81) 1,2,4-Trichlorobenzene	13.426	180	56312	2.158	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043034.D
 Acq On : 02 Oct 2025 11:29
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:03:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	174129	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	522004	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	431704	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 313212 10.071 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	31391	1.070	ppbv	98
3) Chlorodifluoromethane	1.470	51	29622	1.043	ppbv	97
4) Chloromethane	1.528	50	11539	1.076	ppbv	91
5) Vinyl Chloride	1.573	62	9984	0.981	ppbv	98
6) Bromomethane	1.661	94	4926	1.078	ppbv	97
7) Chloroethane	1.699	64	4474	1.054	ppbv	90
8) Dichlorotetrafluoroethane	1.547	85	24892	1.035	ppbv	98
9) Propene	1.479	41	12033	1.051	ppbv	97
10) Heptane	4.952	43	27247	0.966	ppbv	98
11) Trichlorofluoromethane	1.871	101	32491	1.077	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.130	101	24551	1.034	ppbv	99
13) Ethanol	1.716	45	849	0.777	ppbv #	48
14) Bromoethene	1.774	108	8693	1.021	ppbv #	94
15) Acetone	1.829	43	27190	1.115	ppbv	97
16) 1,3-Butadiene	1.602	39	10229	1.018	ppbv	100
17) tert-Butyl alcohol	2.033	59	27609	1.071	ppbv	96
18) 1,1-Dichloroethene	2.026	96	10892	1.046	ppbv	94
19) Isopropyl Alcohol	1.877	45	12661	1.084	ppbv	86
20) Methylene Chloride	2.052	84	11906	1.119	ppbv #	92
21) Allyl Chloride	2.088	41	15455	0.989	ppbv	96
22) trans-1,2-Dichloroethene	2.331	96	12411	1.050	ppbv	99
23) Vinyl Acetate	2.450	43	5498	1.062	ppbv #	77
24) 1,1-Dichloroethane	2.399	63	23773	1.061	ppbv	97
25) Ethyl Acetate	2.823	43	63776	1.043	ppbv	100
26) Hexane	2.813	57	22126	0.940	ppbv	80
27) Carbon Disulfide	2.140	76	28818	1.037	ppbv #	62
28) Methyl tert-Butyl Ether	2.428	73	15176	1.031	ppbv	99
29) Chloroform	2.832	83	41697	1.039	ppbv	99
30) Cyclohexane	3.839	84	18605	0.962	ppbv	97
31) cis-1,2-Dichloroethene	2.709	61	24206	1.001	ppbv	97
32) 1,1,1-Trichloroethane	3.350	97	38581	0.990	ppbv	95
34) 2-Butanone	2.544	43	35775	1.010	ppbv	100
35) Carbon Tetrachloride	3.742	117	41999	0.978	ppbv	94
36) Benzene	3.638	78	51343	1.029	ppbv	95
37) 1,2-Dichloroethane	3.201	62	30102	1.019	ppbv	99
38) Trichloroethene	4.519	130	22132	1.065	ppbv	90
39) 1,2-Dichloropropane	4.289	63	18915	1.023	ppbv	90
40) 1,4-Dioxane	4.564	88	7860m	0.990	ppbv	
41) Tetrahydrofuran	3.043	42	17630	0.963	ppbv	98
42) Bromodichloromethane	4.460	83	42012	1.007	ppbv	89
43) Methyl Methacrylate	4.849	69	14911	0.901	ppbv	95
44) 2,2,4-Trimethylpentane	4.609	57	77988	0.975	ppbv	96
45) t-1,3-Dichloropropene	6.380	75	13974	0.932	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043034.D
 Acq On : 02 Oct 2025 11:29
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:03:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.570	75	20141m	0.945	ppbv	
47) 1,1,2-Trichloroethane	6.548	97	21164	1.029	ppbv #	85
48) Dibromochloromethane	7.357	129	33636	1.002	ppbv	100
49) Bromoform	9.464	173	26918	0.960	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	39803	0.922	ppbv	98
51) 2-Hexanone	7.415	43	26904	0.878	ppbv #	95
52) Tetrachloroethene	8.202	164	17908	0.964	ppbv	97
53) Toluene	6.904	91	45974	0.913	ppbv	98
54) 1,2-Dibromoethane	7.626	107	24648	1.011	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.904	131	26884	1.022	ppbv	95
57) Chlorobenzene	8.898	112	47296	1.036	ppbv	97
58) Ethyl Benzene	9.335	91	59544	0.890	ppbv	97
59) m/p-Xylene	9.532	91	106322m	1.884	ppbv	
60) o-Xylene	9.943	91	52489	0.934	ppbv	100
61) Styrene	9.849	104	19376	0.823	ppbv	97
62) Isopropylbenzene	10.523	105	82825	0.960	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.943	83	40981	1.012	ppbv	99
64) n-propylbenzene	10.972	120	21190	0.960	ppbv	96
65) tert-Butylbenzene	11.516	119	74677	0.973	ppbv	99
66) Benzyl Chloride	11.597	91	2866	0.963	ppbv	98
67) sec-Butylbenzene	11.752	105	106876	0.998	ppbv	100
69) p-Isopropyltoluene	11.911	119	81108	0.931	ppbv	99
70) n-Butylbenzene	12.267	91	76664	0.914	ppbv	97
71) 2-Chlorotoluene	10.885	91	58174	0.932	ppbv	100
72) 4-Ethyltoluene	11.108	105	61540	0.920	ppbv	98
73) 1,3,5-Trimethylbenzene	11.189	105	54851	0.948	ppbv	94
74) 1,2,4-Trimethylbenzene	11.519	105	64405	0.986	ppbv	98
75) 1,3-Dichlorobenzene	11.591	146	42580	1.003	ppbv	98
76) 1,4-Dichlorobenzene	11.655	146	40098	0.990	ppbv	100
77) 1,2-Dichlorobenzene	11.930	146	44771	1.058	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	30422	1.032	ppbv	99
79) Naphthalene	13.497	128	32191	0.831	ppbv	98
80) Naphthalene,2-methyl-	14.442	142	7210	0.923	ppbv	99
81) 1,2,4-Trichlorobenzene	13.426	180	20534	0.816	ppbv	100

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

Manual Integrations APPROVED

Quant Time: Oct 03 08:03:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043036.D
 Acq On : 02 Oct 2025 12:35
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:04:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Oct 03 07:59:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	175730	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	510906	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	418551	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.358	95	289539	9.603	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.000%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.573	62	1208	0.118	ppbv	96
32) 1,1,1-Trichloroethane	3.350	97	3686	0.094	ppbv	96
35) Carbon Tetrachloride	3.739	117	4230	0.101	ppbv #	91
38) Trichloroethene	4.522	130	1971m	0.097	ppbv	
52) Tetrachloroethene	8.199	164	1674	0.092	ppbv #	75
54) 1,2-Dibromoethane	7.626	107	2275m	0.095	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.946	83	3701	0.094	ppbv	93
79) Naphthalene	13.500	128	1393	0.261	ppbv #	94

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

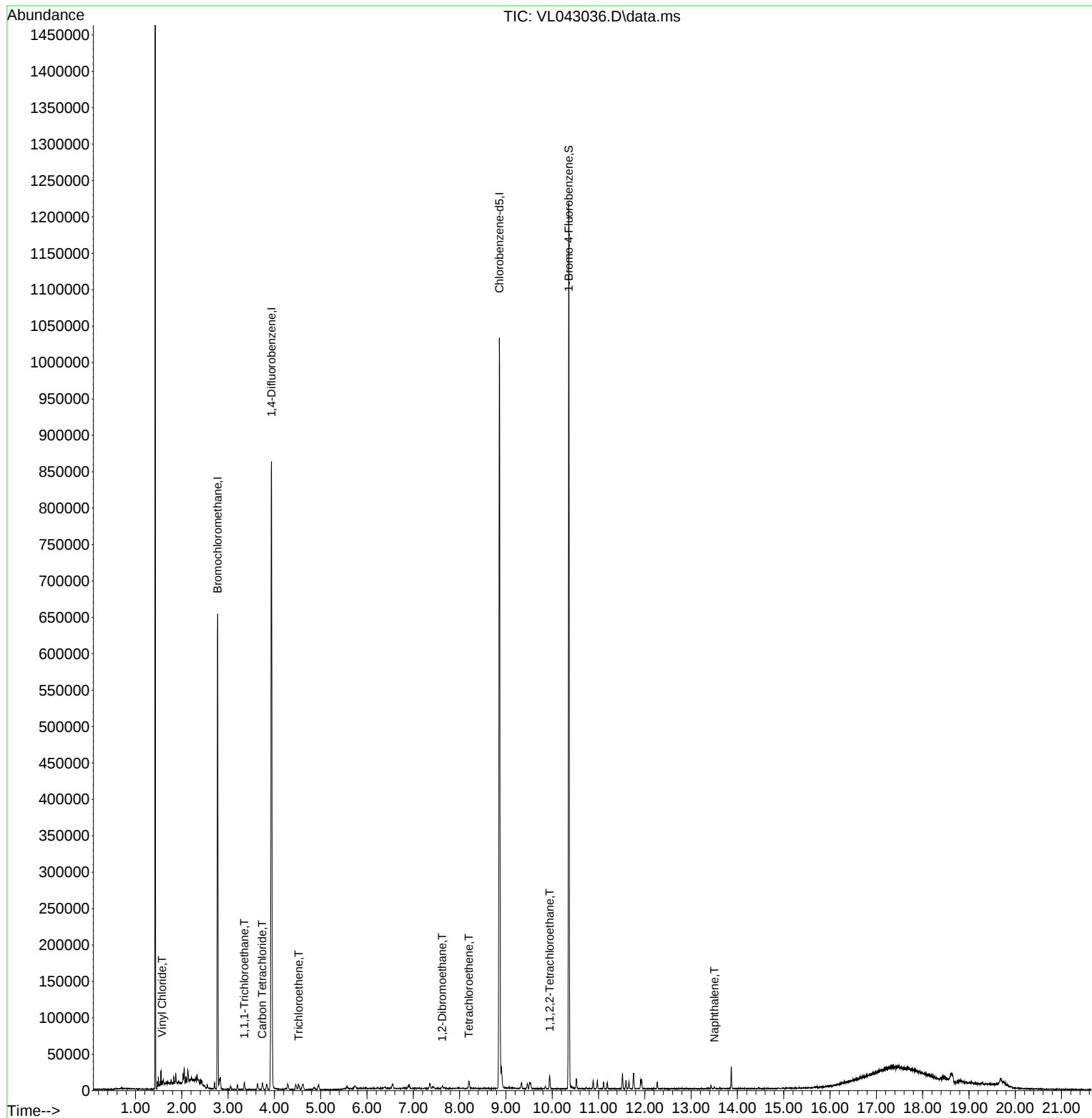
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Data File : VL043036.D
Acq On : 02 Oct 2025 12:35
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:04:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043037.D
 Acq On : 02 Oct 2025 13:07
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:05:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2
 QLast Update : Fri Oct 03 07:59:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	172214	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	493591	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	408184	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	280877	9.552	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%
Target Compounds						
						Qvalue
32) 1,1,1-Trichloroethane	3.353	97	1314m	0.034	ppbv	
35) Carbon Tetrachloride	3.748	117	1490m	0.037	ppbv	
52) Tetrachloroethene	8.205	164	628m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.947	83	1322	0.035	ppbv	96

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

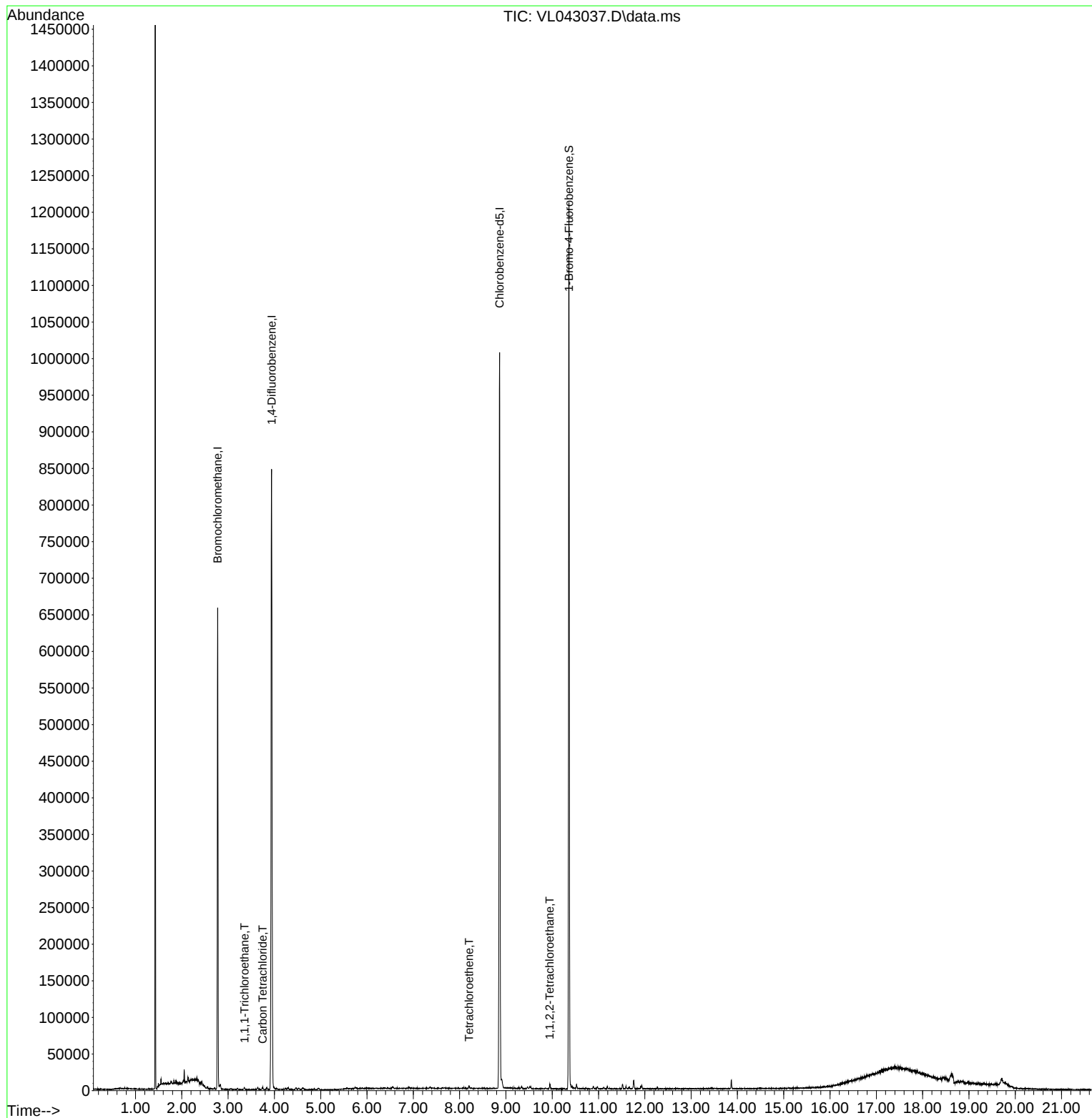
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043037.D
Acq On : 02 Oct 2025 13:07
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043038.D
 Acq On : 02 Oct 2025 13:41
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:06:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	174781	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	521075	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	446323	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.361 95 331763 10.318 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.493	85	417041	14.157	ppbv	100
3) Chlorodifluoromethane	1.470	51	396783	13.924	ppbv	100
4) Chloromethane	1.528	50	152053	14.131	ppbv	100
5) Vinyl Chloride	1.573	62	143710	14.073	ppbv	98
6) Bromomethane	1.661	94	66123	14.410	ppbv	97
7) Chloroethane	1.700	64	58804	13.801	ppbv	97
8) Dichlorotetrafluoroethane	1.551	85	342721	14.198	ppbv	100
9) Propene	1.480	41	159689	13.898	ppbv	97
10) Heptane	4.956	43	465543	16.450	ppbv	99
11) Trichlorofluoromethane	1.871	101	430473	14.220	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	337263	14.145	ppbv	97
13) Ethanol	1.713	45	6726	14.884	ppbv	94
14) Bromoethene	1.774	108	123040	14.394	ppbv	99
15) Acetone	1.826	43	302724	12.370	ppbv	100
16) 1,3-Butadiene	1.603	39	142349	14.108	ppbv	99
17) tert-Butyl alcohol	2.030	59	352251	13.608	ppbv	100
18) 1,1-Dichloroethene	2.027	96	150012	14.353	ppbv	98
19) Isopropyl Alcohol	1.878	45	154373	13.166	ppbv	98
20) Methylene Chloride	2.053	84	130116	12.181	ppbv	96
21) Allyl Chloride	2.088	41	223371	14.247	ppbv	99
22) trans-1,2-Dichloroethene	2.331	96	169834	14.313	ppbv	96
23) Vinyl Acetate	2.454	43	60446	11.634	ppbv #	96
24) 1,1-Dichloroethane	2.399	63	320234	14.237	ppbv	100
25) Ethyl Acetate	2.820	43	909988	14.822	ppbv	100
26) Hexane	2.813	57	370003	15.667	ppbv	98
27) Carbon Disulfide	2.143	76	404552	14.510	ppbv	99
28) Methyl tert-Butyl Ether	2.428	73	213111	14.420	ppbv	99
29) Chloroform	2.836	83	576414	14.316	ppbv	99
30) Cyclohexane	3.836	84	314603	16.212	ppbv	99
31) cis-1,2-Dichloroethene	2.710	61	363768	14.984	ppbv	99
32) 1,1,1-Trichloroethane	3.354	97	573214	14.648	ppbv	100
34) 2-Butanone	2.545	43	511000	14.453	ppbv	100
35) Carbon Tetrachloride	3.745	117	604277	14.095	ppbv	97
36) Benzene	3.638	78	748168	15.028	ppbv	98
37) 1,2-Dichloroethane	3.205	62	431043	14.619	ppbv	100
38) Trichloroethene	4.525	130	317772	15.319	ppbv	99
39) 1,2-Dichloropropane	4.289	63	269729	14.617	ppbv	98
40) 1,4-Dioxane	4.554	88	120237	15.173	ppbv #	95
41) Tetrahydrofuran	3.036	42	295205	16.155	ppbv	100
42) Bromodichloromethane	4.464	83	619944	14.890	ppbv	96
43) Methyl Methacrylate	4.852	69	279674	16.923	ppbv	99
44) 2,2,4-Trimethylpentane	4.616	57	1251093	15.661	ppbv	99
45) t-1,3-Dichloropropene	6.386	75	251549	16.802	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043038.D
 Acq On : 02 Oct 2025 13:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:06:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

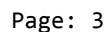
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.571	75	351325	16.515	ppbv	100
47) 1,1,2-Trichloroethane	6.555	97	296142	14.428	ppbv	98
48) Dibromochloromethane	7.364	129	512219	15.290	ppbv	100
49) Bromoform	9.468	173	449641	16.072	ppbv	100
50) 4-Methyl-2-Pentanone	5.713	43	723710	16.786	ppbv	100
51) 2-Hexanone	7.409	43	562773	18.407	ppbv	100
52) Tetrachloroethene	8.205	164	270386	14.575	ppbv	98
53) Toluene	6.911	91	858713	17.085	ppbv	100
54) 1,2-Dibromoethane	7.629	107	378193	15.546	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.908	131	394995	14.519	ppbv	100
57) Chlorobenzene	8.904	112	670949	14.220	ppbv	99
58) Ethyl Benzene	9.338	91	1190670	17.220	ppbv	99
59) m/p-Xylene	9.536	91	1936045m	33.184	ppbv	
60) o-Xylene	9.947	91	969480	16.688	ppbv	99
61) Styrene	9.853	104	462847	19.017	ppbv	100
62) Isopropylbenzene	10.526	105	1455778	16.324	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.947	83	593157	14.167	ppbv	100
64) n-propylbenzene	10.976	120	387627	16.991	ppbv	95
65) tert-Butylbenzene	11.520	119	1283802	16.175	ppbv	99
66) Benzyl Chloride	11.604	91	50421	16.394	ppbv	99
67) sec-Butylbenzene	11.756	105	1758282	15.875	ppbv	98
69) p-Isopropyltoluene	11.915	119	1493674	16.578	ppbv	99
70) n-Butylbenzene	12.271	91	1480662	17.067	ppbv	98
71) 2-Chlorotoluene	10.889	91	1085558	16.819	ppbv	100
72) 4-Ethyltoluene	11.112	105	1190551	17.218	ppbv	99
73) 1,3,5-Trimethylbenzene	11.190	105	1001678	16.745	ppbv	100
74) 1,2,4-Trimethylbenzene	11.523	105	1091026	16.160	ppbv	95
75) 1,3-Dichlorobenzene	11.594	146	665205	15.149	ppbv	100
76) 1,4-Dichlorobenzene	11.659	146	656125	15.671	ppbv	99
77) 1,2-Dichlorobenzene	11.934	146	632662	14.465	ppbv	99
78) Hexachloro-1,3-Butadiene	13.870	225	435408	14.288	ppbv	100
79) Naphthalene	13.501	128	887779	14.984	ppbv	99
80) Naphthalene,2-methyl-	14.446	142	421038	15.372	ppbv	99
81) 1,2,4-Trichlorobenzene	13.429	180	489642	18.818	ppbv	99

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

Manual Integrations

Quant Time: Oct 03 08:06:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:22:04 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

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

Internal Standards						
1) Bromochloromethane	2.777	49	178544	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	537412	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	454012	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 333843 10.207 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	287085	9.540	ppbv	100
3) Chlorodifluoromethane	1.473	51	275618	9.468	ppbv	99
4) Chloromethane	1.528	50	104427	9.501	ppbv	98
5) Vinyl Chloride	1.577	62	98850	9.476	ppbv	97
6) Bromomethane	1.664	94	46326	9.883	ppbv	97
7) Chloroethane	1.700	64	40636	9.336	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	235901	9.567	ppbv	99
9) Propene	1.480	41	115956	9.879	ppbv	99
10) Heptane	4.956	43	311038	10.779	ppbv	100
11) Trichlorofluoromethane	1.871	101	291376	9.422	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.133	101	228314	9.374	ppbv	97
13) Ethanol	1.716	45	4643	9.646	ppbv	98
14) Bromoethene	1.777	108	85349	9.774	ppbv	99
15) Acetone	1.829	43	204381	8.176	ppbv	100
16) 1,3-Butadiene	1.606	39	95179	9.234	ppbv	99
17) tert-Butyl alcohol	2.033	59	249385	9.431	ppbv	99
18) 1,1-Dichloroethene	2.026	96	101929	9.547	ppbv	95
19) Isopropyl Alcohol	1.878	45	109403	9.134	ppbv	99
20) Methylene Chloride	2.056	84	89214	8.176	ppbv	97
21) Allyl Chloride	2.088	41	151234	9.443	ppbv	99
22) trans-1,2-Dichloroethene	2.331	96	115000	9.487	ppbv	97
23) Vinyl Acetate	2.454	43	45886	8.646	ppbv	97
24) 1,1-Dichloroethane	2.399	63	217319	9.458	ppbv	98
25) Ethyl Acetate	2.823	43	628433	10.021	ppbv	100
26) Hexane	2.816	57	253815	10.521	ppbv	98
27) Carbon Disulfide	2.143	76	273348	9.598	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	147450	9.767	ppbv	99
29) Chloroform	2.836	83	388247	9.439	ppbv	100
30) Cyclohexane	3.839	84	216007	10.896	ppbv	98
31) cis-1,2-Dichloroethene	2.709	61	249555	10.063	ppbv	97
32) 1,1,1-Trichloroethane	3.354	97	387043	9.682	ppbv	100
34) 2-Butanone	2.544	43	346463	9.501	ppbv	100
35) Carbon Tetrachloride	3.745	117	399311	9.031	ppbv	96
36) Benzene	3.642	78	514339	10.017	ppbv	98
37) 1,2-Dichloroethane	3.205	62	289339	9.515	ppbv	100
38) Trichloroethene	4.528	130	213727	9.992	ppbv	98
39) 1,2-Dichloropropane	4.292	63	183886	9.662	ppbv	97
40) 1,4-Dioxane	4.558	88	80249	9.831	ppbv #	98
41) Tetrahydrofuran	3.040	42	201471	10.690	ppbv	100
42) Bromodichloromethane	4.467	83	413457	9.629	ppbv	98
43) Methyl Methacrylate	4.855	69	189993	11.147	ppbv	99
44) 2,2,4-Trimethylpentane	4.619	57	847766	10.290	ppbv	99
45) t-1,3-Dichloropropene	6.389	75	164370	10.538	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:24:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:22:04 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	232895	10.597	ppbv	98
47) 1,1,2-Trichloroethane	6.558	97	196496	9.282	ppbv	97
48) Dibromochloromethane	7.367	129	336813	9.749	ppbv	99
49) Bromoform	9.468	173	275751	9.557	ppbv	100
50) 4-Methyl-2-Pentanone	5.720	43	484498	10.896	ppbv	100
51) 2-Hexanone	7.412	43	355624	11.236	ppbv	99
52) Tetrachloroethene	8.208	164	182062	9.576	ppbv	99
53) Toluene	6.911	91	572257	11.040	ppbv	100
54) 1,2-Dibromoethane	7.632	107	247276	9.855	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.908	131	259863	9.390	ppbv	99
57) Chlorobenzene	8.904	112	447850	9.331	ppbv	100
58) Ethyl Benzene	9.338	91	775232	11.022	ppbv	98
59) m/p-Xylene	9.535	91	1265386m	21.330	ppbv	
60) o-Xylene	9.950	91	628486	10.635	ppbv	99
61) Styrene	9.856	104	284955	11.510	ppbv	100
62) Isopropylbenzene	10.526	105	939236	10.353	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.950	83	360837	8.511	ppbv	99
64) n-propylbenzene	10.976	120	240769	10.375	ppbv	98
65) tert-Butylbenzene	11.520	119	814322	10.086	ppbv	100
66) Benzyl Chloride	11.604	91	26124	8.466	ppbv	99
67) sec-Butylbenzene	11.756	105	1122743	9.965	ppbv	99
69) p-Isopropyltoluene	11.914	119	937600	10.230	ppbv	100
70) n-Butylbenzene	12.270	91	913299	10.349	ppbv	100
71) 2-Chlorotoluene	10.888	91	673074	10.251	ppbv	100
72) 4-Ethyltoluene	11.112	105	744145	10.579	ppbv	100
73) 1,3,5-Trimethylbenzene	11.193	105	621377	10.212	ppbv	100
74) 1,2,4-Trimethylbenzene	11.526	105	684740	9.971	ppbv	93
75) 1,3-Dichlorobenzene	11.594	146	409217	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.659	146	398965	9.368	ppbv	100
77) 1,2-Dichlorobenzene	11.934	146	384233	8.636	ppbv	99
78) Hexachloro-1,3-Butadiene	13.869	225	289545	9.340	ppbv	99
79) Naphthalene	13.500	128	552627	9.523	ppbv	99
80) Naphthalene,2-methyl-	14.445	142	223063	8.323	ppbv	98
81) 1,2,4-Trichlorobenzene	13.429	180	317372	11.990	ppbv	100

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

Manual Integrations

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/10/2025

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	1.685	1.608	4.6	103	0.00
3	Chlorodifluoromethane	1.630	1.544	5.3	103	0.00
4	Chloromethane	0.616	0.585	5.0	103	0.00
5 T	Vinyl Chloride	0.584	0.554	5.1	104	0.00
6 T	Bromomethane	0.263	0.259	1.5	106	0.00
7	Chloroethane	0.244	0.228	6.6	104	0.00
8 T	Dichlorotetrafluoroethane	1.381	1.321	4.3	103	0.00
9 T	Propene	0.657	0.649	1.2	104	0.00
10 T	Heptane	1.616	1.742	-7.8	101	0.00
11 T	Trichlorofluoromethane	1.732	1.632	5.8	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.364	1.279	6.2	101	0.00
13	Ethanol	0.045	0.026#	42.2#	97	0.00
14 T	Bromoethene	0.489	0.478	2.2	104	0.00
15 T	Acetone	1.400	1.145	18.2	102	0.00
16 T	1,3-Butadiene	0.577	0.533	7.6	101	0.00
17	tert-Butyl alcohol	1.481	1.397	5.7	103	0.00
18 T	1,1-Dichloroethene	0.598	0.571	4.5	101	0.00
19 T	Isopropyl Alcohol	0.671	0.613	8.6	103	0.00
20 T	Methylene Chloride	0.611	0.500	18.2	104	0.00
21 T	Allyl Chloride	0.897	0.847	5.6	102	0.00
22 T	trans-1,2-Dichloroethene	0.679	0.644	5.2	103	0.00
23 T	Vinyl Acetate	0.297	0.257	13.5	107	0.00
24 T	1,1-Dichloroethane	1.287	1.217	5.4	103	0.00
25 T	Ethyl Acetate	3.513	3.520	-0.2	102	0.00
26 T	Hexane	1.351	1.422	-5.3	103	0.00
27 T	Carbon Disulfide	1.595	1.531	4.0	102	0.00
28 T	Methyl tert-Butyl Ether	0.846	0.826	2.4	102	0.00
29 T	Chloroform	2.304	2.175	5.6	100	0.00
30 T	Cyclohexane	1.110	1.210	-9.0	103	0.00
31 T	cis-1,2-Dichloroethene	1.389	1.398	-0.6	101	0.00
32 T	1,1,1-Trichloroethane	2.239	2.168	3.2	102	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
34 T	2-Butanone	0.679	0.645	5.0	101	0.00
35 T	Carbon Tetrachloride	0.823	0.743	9.7	100	0.00
36 T	Benzene	0.955	0.957	-0.2	102	0.00
37 T	1,2-Dichloroethane	0.566	0.538	4.9	101	0.00
38 T	Trichloroethene	0.398	0.398	0.0	100	0.00
39 T	1,2-Dichloropropane	0.354	0.342	3.4	100	0.00
40 T	1,4-Dioxane	0.152	0.149	2.0	98	0.00
41 T	Tetrahydrofuran	0.351	0.375	-6.8	102	0.00
42 T	Bromodichloromethane	0.799	0.769	3.8	100	0.00
43	Methyl Methacrylate	0.317	0.354	-11.7	103	0.00
44 T	2,2,4-Trimethylpentane	1.533	1.577	-2.9	102	0.00
45 T	t-1,3-Dichloropropene	0.290	0.306	-5.5	100	0.00
46 T	cis-1,3-Dichloropropene	0.409	0.433	-5.9	101	0.00
47 T	1,1,2-Trichloroethane	0.394	0.366	7.1	100	0.00
48 T	Dibromochloromethane	0.643	0.627	2.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.537	0.513	4.5	94	0.00
50 T	4-Methyl-2-Pentanone	0.827	0.902	-9.1	102	0.00
51 T	2-Hexanone	0.589	0.662	-12.4	98	0.00
52 T	Tetrachloroethene	0.354	0.339	4.2	101	0.00
53 T	Toluene	0.965	1.065	-10.4	101	0.00
54 T	1,2-Dibromoethane	0.467	0.460	1.5	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
56	1,1,1,2-Tetrachloroethane	0.610	0.572	6.2	98	0.00
57 T	Chlorobenzene	1.057	0.986	6.7	98	0.00
58 T	Ethyl Benzene	1.549	1.708	-10.3	98	0.00
59 T	m/p-Xylene	1.307	1.394	-6.7	98	0.00
60 T	o-Xylene	1.302	1.384	-6.3	97	0.00
61 T	Styrene	0.545	0.628	-15.2	95	0.00
62	Isopropylbenzene	1.998	2.069	-3.6	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.934	0.795	14.9	92	0.00
64	n-propylbenzene	0.511	0.530	-3.7	96	0.00
65	tert-Butylbenzene	1.778	1.794	-0.9	94	0.00
66 T	Benzyl Chloride	0.068	0.058	14.7	85	0.00
67	sec-Butylbenzene	2.482	2.473	0.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.720	0.735	-2.1	101	0.00
69	p-Isopropyltoluene	2.019	2.065	-2.3	93	0.00
70	n-Butylbenzene	1.944	2.012	-3.5	92	0.00
71	2-Chlorotoluene	1.446	1.483	-2.6	95	0.00
72 T	4-Ethyltoluene	1.549	1.639	-5.8	95	0.00
73 T	1,3,5-Trimethylbenzene	1.340	1.369	-2.2	94	0.00
74 T	1,2,4-Trimethylbenzene	1.513	1.508	0.3	94	0.00
75 T	1,3-Dichlorobenzene	0.984	0.901	8.4	93	0.00
76 T	1,4-Dichlorobenzene	0.938	0.879	6.3	92	0.00
77 T	1,2-Dichlorobenzene	0.980	0.846	13.7	92	0.00
78 T	Hexachloro-1,3-Butadiene	0.683	0.638	6.6	100	0.00
79 T	Naphthalene	0.903	1.217	-34.8#	96	0.00
80 T	Naphthalene,2-methyl-	0.457	0.491	-7.4	88	0.00
81 T	1,2,4-Trichlorobenzene	0.583	0.699	-19.9	102	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	10.000	9.540	4.6	103	0.00
3	Chlorodifluoromethane	10.000	9.468	5.3	103	0.00
4	Chloromethane	10.000	9.501	5.0	103	0.00
5 T	Vinyl Chloride	10.000	9.476	5.2	104	0.00
6 T	Bromomethane	10.000	9.883	1.2	106	0.00
7	Chloroethane	10.000	9.336	6.6	104	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.567	4.3	103	0.00
9 T	Propene	10.000	9.879	1.2	104	0.00
10 T	Heptane	10.000	10.779	-7.8	101	0.00
11 T	Trichlorofluoromethane	10.000	9.422	5.8	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.374	6.3	101	0.00
13	Ethanol	10.000	9.646	3.5	97	0.00
14 T	Bromoethene	10.000	9.774	2.3	104	0.00
15 T	Acetone	10.000	8.176	18.2	102	0.00
16 T	1,3-Butadiene	10.000	9.234	7.7	101	0.00
17	tert-Butyl alcohol	10.000	9.431	5.7	103	0.00
18 T	1,1-Dichloroethene	10.000	9.547	4.5	101	0.00
19 T	Isopropyl Alcohol	10.000	9.134	8.7	103	0.00
20 T	Methylene Chloride	10.000	8.176	18.2	104	0.00
21 T	Allyl Chloride	10.000	9.443	5.6	102	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.487	5.1	103	0.00
23 T	Vinyl Acetate	10.000	8.646	13.5	107	0.00
24 T	1,1-Dichloroethane	10.000	9.458	5.4	103	0.00
25 T	Ethyl Acetate	10.000	10.021	-0.2	102	0.00
26 T	Hexane	10.000	10.521	-5.2	103	0.00
27 T	Carbon Disulfide	10.000	9.598	4.0	102	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.767	2.3	102	0.00
29 T	Chloroform	10.000	9.439	5.6	100	0.00
30 T	Cyclohexane	10.000	10.896	-9.0	103	0.00
31 T	cis-1,2-Dichloroethene	10.000	10.063	-0.6	101	0.00
32 T	1,1,1-Trichloroethane	10.000	9.682	3.2	102	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	103	0.00
34 T	2-Butanone	10.000	9.501	5.0	101	0.00
35 T	Carbon Tetrachloride	10.000	9.031	9.7	100	0.00
36 T	Benzene	10.000	10.017	-0.2	102	0.00
37 T	1,2-Dichloroethane	10.000	9.515	4.8	101	0.00
38 T	Trichloroethene	10.000	9.992	0.1	100	0.00
39 T	1,2-Dichloropropane	10.000	9.662	3.4	100	0.00
40 T	1,4-Dioxane	10.000	9.831	1.7	98	0.00
41 T	Tetrahydrofuran	10.000	10.690	-6.9	102	0.00
42 T	Bromodichloromethane	10.000	9.629	3.7	100	0.00
43	Methyl Methacrylate	10.000	11.147	-11.5	103	0.00
44 T	2,2,4-Trimethylpentane	10.000	10.290	-2.9	102	0.00
45 T	t-1,3-Dichloropropene	10.000	10.538	-5.4	100	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.597	-6.0	101	0.00
47 T	1,1,2-Trichloroethane	10.000	9.282	7.2	100	0.00
48 T	Dibromochloromethane	10.000	9.749	2.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.557	4.4	94	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.896	-9.0	102	0.00
51 T	2-Hexanone	10.000	11.236	-12.4	98	0.00
52 T	Tetrachloroethene	10.000	9.576	4.2	101	0.00
53 T	Toluene	10.000	11.040	-10.4	101	0.00
54 T	1,2-Dibromoethane	10.000	9.855	1.4	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	101	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.390	6.1	98	0.00
57 T	Chlorobenzene	10.000	9.331	6.7	98	0.00
58 T	Ethyl Benzene	10.000	11.022	-10.2	98	0.00
59 T	m/p-Xylene	20.000	21.330	-6.6	98	0.00
60 T	o-Xylene	10.000	10.635	-6.3	97	0.00
61 T	Styrene	10.000	11.510	-15.1	95	0.00
62	Isopropylbenzene	10.000	10.353	-3.5	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.511	14.9	92	0.00
64	n-propylbenzene	10.000	10.375	-3.8	96	0.00
65	tert-Butylbenzene	10.000	10.086	-0.9	94	0.00
66 T	Benzyl Chloride	10.000	8.466	15.3	85	0.00
67	sec-Butylbenzene	10.000	9.965	0.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.207	-2.1	101	0.00
69	p-Isopropyltoluene	10.000	10.230	-2.3	93	0.00
70	n-Butylbenzene	10.000	10.349	-3.5	92	0.00
71	2-Chlorotoluene	10.000	10.251	-2.5	95	0.00
72 T	4-Ethyltoluene	10.000	10.579	-5.8	95	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.212	-2.1	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.971	0.3	94	0.00
75 T	1,3-Dichlorobenzene	10.000	9.161	8.4	93	0.00
76 T	1,4-Dichlorobenzene	10.000	9.368	6.3	92	0.00
77 T	1,2-Dichlorobenzene	10.000	8.636	13.6	92	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.340	6.6	100	0.00
79 T	Naphthalene	10.000	9.523	4.8	96	0.00
80 T	Naphthalene,2-methyl-	10.000	8.323	16.8	88	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.990	-19.9	102	0.00

(#) = Out of Range

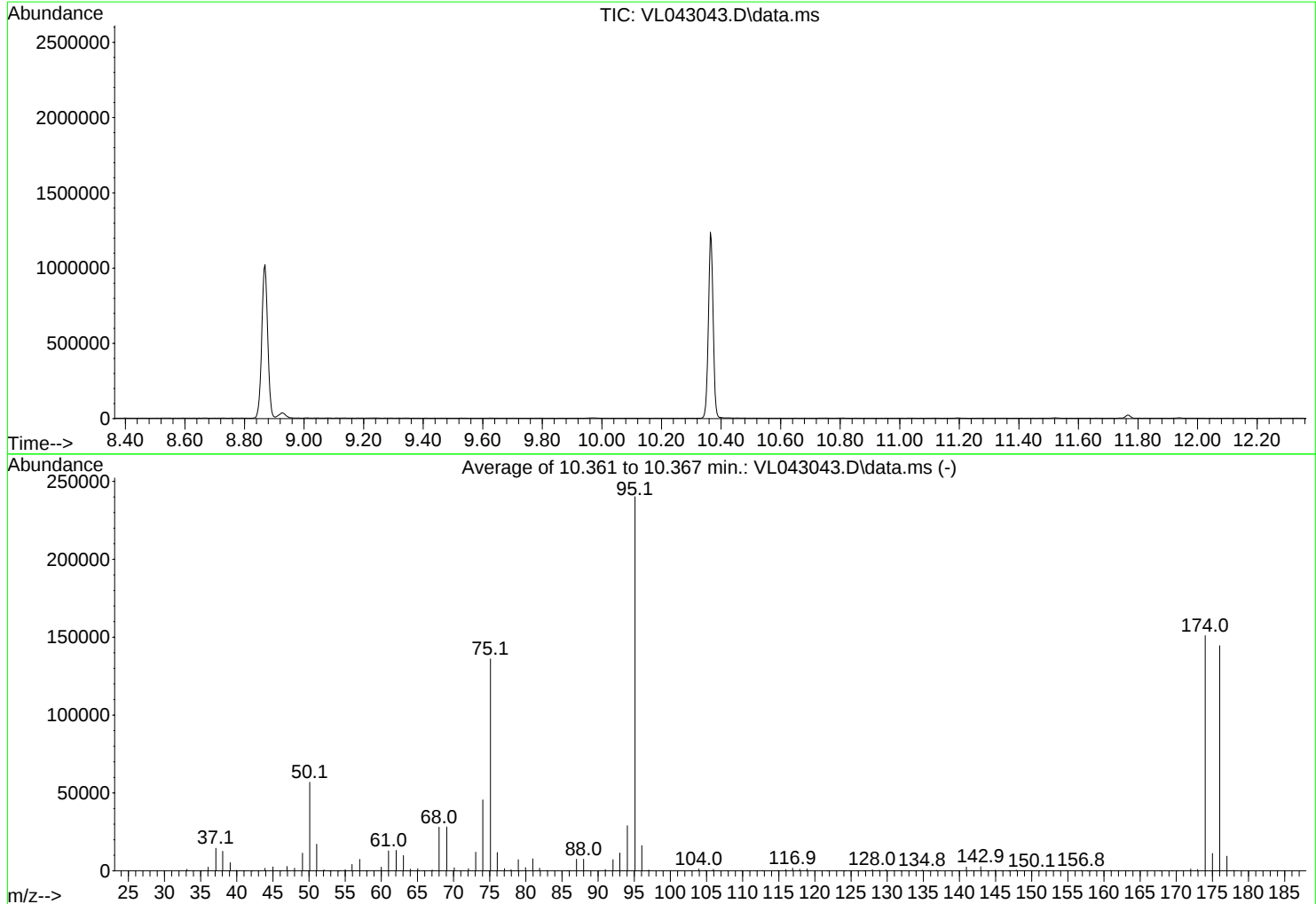
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043043.D
Acq On : 06 Oct 2025 07:57
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Oct 03 08:23:34 2025



AutoFind: Scans 3174, 3175, 3176; Background Corrected with Scan 3159

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.7	56904	PASS
75	95	30	66	56.6	136077	PASS
95	95	100	100	100.0	240213	PASS
96	95	5	9	6.7	16210	PASS
173	174	0.00	2	0.6	956	PASS
174	95	50	120	62.9	150976	PASS
175	174	4	9	7.4	11194	PASS
176	174	93	101	95.7	144528	PASS
177	176	5	9	6.5	9360	PASS

Average of 10.361 to 10.367 min.: VL043043.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1003	43.90	1683	53.10	125	63.05	989
33.95	96	45.00	2533	53.90	62	64.05	112
35.00	24	46.00	168	54.10	35	65.05	133
36.05	2370	46.20	107	55.00	790	65.90	19
37.10	14494	46.95	2792	55.95	4089	66.90	225
38.05	12606	48.00	1765	57.00	7414	67.05	595
39.10	5293	49.10	11375	57.90	176	68.00	28048
39.95	349	50.10	56904	58.10	65	69.05	28187
40.90	23	51.05	17136	60.00	2391	70.10	2028
42.10	54	52.05	753	61.00	12894	72.05	1483
43.00	165	52.80	29	62.05	13089	73.05	11996

Average of 10.361 to 10.367 min.: VL043043.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
74.05	45589	86.10	92	103.95	1188	114.85	232
75.10	136077	87.00	7482	104.85	352	115.95	937
76.05	11795	88.00	7486	105.95	973	116.90	1707
77.05	1418	91.00	927	106.80	216	117.90	1028
77.95	762	92.05	7245	107.90	77	118.90	1301
78.95	7185	93.00	11489	109.80	212	121.70	20
79.95	2120	94.05	29013	110.70	108	123.70	135
80.95	7772	95.10	240213	111.00	143	124.10	23
81.90	1728	96.05	16210	111.80	61	124.75	70
82.95	261	97.00	555	112.05	131	125.90	63
85.80	193	102.80	110	112.75	243	126.80	41

Average of 10.361 to 10.367 min.: VL043043.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.95	763	139.90	80	148.70	140	156.85	392
128.90	485	140.95	2500	149.05	106	157.70	41
129.85	615	141.95	181	149.70	76	158.10	27
130.95	311	142.95	2695	150.05	169	158.85	91
131.90	42	143.85	159	151.00	20	159.10	78
133.90	47	144.95	501	151.90	41	160.95	329
134.85	596	145.80	120	153.00	206	163.30	20
135.70	50	146.05	207	153.70	67	167.70	26
136.85	407	146.80	24	154.00	60	169.40	29
138.80	89	146.95	149	154.80	297	170.10	33
139.70	134	147.85	593	155.00	190	172.00	1170

Average of 10.361 to 10.367 min.: VL043043.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.95	956						
174.00	150976						
175.00	11194						
176.00	144528						
177.00	9360						
177.95	363						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043044.D
 Acq On : 06 Oct 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/08/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 07 01:32:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	181342	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	515782	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	434070	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 324488 10.377 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	287157	9.395	ppbv	99
3) Chlorodifluoromethane	1.476	51	281863	9.533	ppbv	99
4) Chloromethane	1.531	50	107064	9.590	ppbv	98
5) Vinyl Chloride	1.580	62	97626	9.214	ppbv	96
6) Bromomethane	1.667	94	45638	9.586	ppbv	95
7) Chloroethane	1.703	64	40916	9.255	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	235363	9.398	ppbv	99
9) Propene	1.483	41	108909	9.135	ppbv	99
10) Heptane	4.968	43	319007	10.884	ppbv	100
11) Trichlorofluoromethane	1.874	101	292298	9.306	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	228489	9.236	ppbv	99
13) Ethanol	1.719	45	4994	10.290	ppbv	97
14) Bromoethene	1.780	108	83347	9.398	ppbv	98
15) Acetone	1.832	43	211361	8.324	ppbv	99
16) 1,3-Butadiene	1.609	39	98478	9.407	ppbv	98
17) tert-Butyl alcohol	2.036	59	252229	9.391	ppbv	100
18) 1,1-Dichloroethene	2.033	96	100506	9.268	ppbv	96
19) Isopropyl Alcohol	1.884	45	113044	9.292	ppbv	99
20) Methylene Chloride	2.059	84	89172	8.046	ppbv	97
21) Allyl Chloride	2.094	41	154207	9.480	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	112836	9.165	ppbv	98
23) Vinyl Acetate	2.457	43	48730	9.040	ppbv	98
24) 1,1-Dichloroethane	2.405	63	217854	9.335	ppbv	99
25) Ethyl Acetate	2.829	43	638620	10.026	ppbv	100
26) Hexane	2.819	57	250238	10.213	ppbv	98
27) Carbon Disulfide	2.146	76	277548	9.595	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	145380	9.481	ppbv	100
29) Chloroform	2.842	83	394464	9.442	ppbv	99
30) Cyclohexane	3.849	84	208637	10.362	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	244012	9.688	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	384289	9.465	ppbv	99
34) 2-Butanone	2.551	43	347993	9.944	ppbv	99
35) Carbon Tetrachloride	3.755	117	408168	9.619	ppbv	97
36) Benzene	3.648	78	502165	10.190	ppbv	98
37) 1,2-Dichloroethane	3.211	62	293779	10.066	ppbv	99
38) Trichloroethene	4.535	130	210056	10.233	ppbv	99
39) 1,2-Dichloropropane	4.302	63	183913	10.069	ppbv	99
40) 1,4-Dioxane	4.567	88	82396	10.517	ppbv #	95
41) Tetrahydrofuran	3.046	42	198764	10.989	ppbv	99
42) Bromodichloromethane	4.480	83	420134	10.194	ppbv	97
43) Methyl Methacrylate	4.865	69	181458	11.093	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	857112	10.839	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	158655	10.598	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043044.D
 Acq On : 06 Oct 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/08/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 07 01:32:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	224260	10.632	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	201486	9.917	ppbv	99
48) Dibromochloromethane	7.376	129	343727	10.366	ppbv	99
49) Bromoform	9.474	173	294450	10.633	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	485069	11.366	ppbv	99
51) 2-Hexanone	7.422	43	362864	11.945	ppbv #	99
52) Tetrachloroethene	8.218	164	178049	9.758	ppbv	94
53) Toluene	6.920	91	558213	11.220	ppbv	100
54) 1,2-Dibromoethane	7.642	107	251743	10.454	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	266983	10.090	ppbv	99
57) Chlorobenzene	8.914	112	457632	9.973	ppbv	98
58) Ethyl Benzene	9.348	91	773986	11.509	ppbv	100
59) m/p-Xylene	9.545	91	1291856m	22.776	ppbv	
60) o-Xylene	9.956	91	650260	11.509	ppbv	98
61) Styrene	9.865	104	285984	12.082	ppbv	99
62) Isopropylbenzene	10.532	105	966428	11.142	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	409295	10.098	ppbv	100
64) n-propylbenzene	10.982	120	256334	11.553	ppbv	99
65) tert-Butylbenzene	11.526	119	880541	11.407	ppbv	99
66) Benzyl Chloride	11.610	91	33291	11.284	ppbv	99
67) sec-Butylbenzene	11.762	105	1214749	11.277	ppbv	100
69) p-Isopropyltoluene	11.921	119	1022374	11.667	ppbv	100
70) n-Butylbenzene	12.277	91	1013351	12.010	ppbv	100
71) 2-Chlorotoluene	10.895	91	715947	11.405	ppbv	99
72) 4-Ethyltoluene	11.118	105	797033	11.852	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	666778	11.461	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	751232	11.441	ppbv	93
75) 1,3-Dichlorobenzene	11.600	146	448438	10.501	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	445649	10.944	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	430137	10.112	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	285716	9.640	ppbv	100
79) Naphthalene	13.507	128	563992	10.118	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	228905	8.885	ppbv	99
81) 1,2,4-Trichlorobenzene	13.435	180	304505	12.033	ppbv	99

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

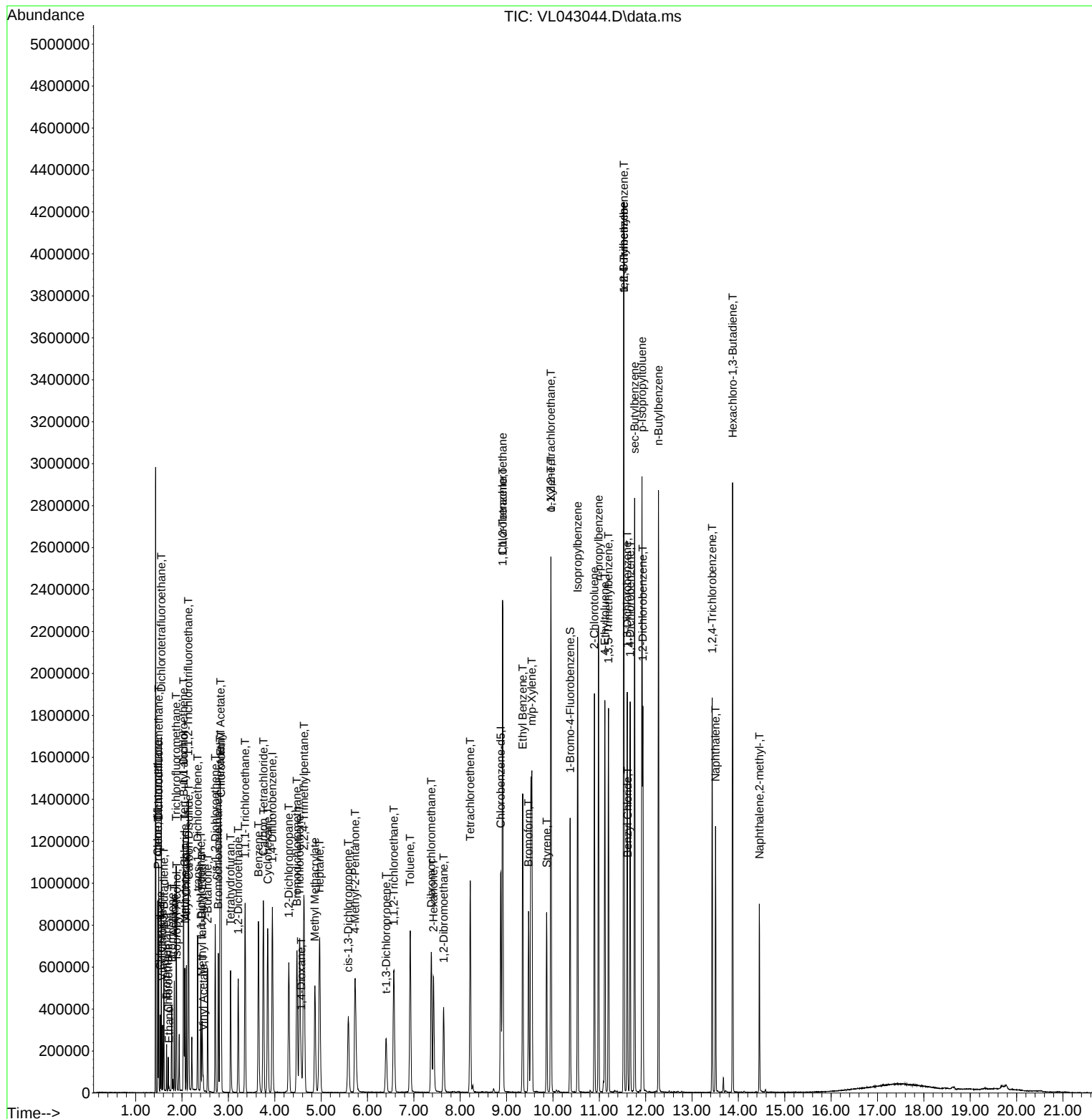
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043044.D
 Acq On : 06 Oct 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/08/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 07 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043044.D
 Acq On : 06 Oct 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	1.685	1.584	6.0	103	0.00
3	Chlorodifluoromethane	1.630	1.554	4.7	105	0.00
4	Chloromethane	0.616	0.590	4.2	106	0.00
5 T	Vinyl Chloride	0.584	0.538	7.9	103	0.00
6 T	Bromomethane	0.263	0.252	4.2	105	0.00
7	Chloroethane	0.244	0.226	7.4	105	0.00
8 T	Dichlorotetrafluoroethane	1.381	1.298	6.0	103	0.00
9 T	Propene	0.657	0.601	8.5	98	0.00
10 T	Heptane	1.616	1.759	-8.8	103	0.01
11 T	Trichlorofluoromethane	1.732	1.612	6.9	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.364	1.260	7.6	101	0.00
13	Ethanol	0.045	0.028#	37.8#	104	0.00
14 T	Bromoethene	0.489	0.460	5.9	101	0.00
15 T	Acetone	1.400	1.166	16.7	105	0.00
16 T	1,3-Butadiene	0.577	0.543	5.9	104	0.00
17	tert-Butyl alcohol	1.481	1.391	6.1	104	0.00
18 T	1,1-Dichloroethene	0.598	0.554	7.4	99	0.00
19 T	Isopropyl Alcohol	0.671	0.623	7.2	107	0.00
20 T	Methylene Chloride	0.611	0.492	19.5	104	0.00
21 T	Allyl Chloride	0.897	0.850	5.2	104	0.00
22 T	trans-1,2-Dichloroethene	0.679	0.622	8.4	101	0.00
23 T	Vinyl Acetate	0.297	0.269	9.4	114	0.00
24 T	1,1-Dichloroethane	1.287	1.201	6.7	103	0.00
25 T	Ethyl Acetate	3.513	3.522	-0.3	103	0.00
26 T	Hexane	1.351	1.380	-2.1	102	0.00
27 T	Carbon Disulfide	1.595	1.531	4.0	104	0.00
28 T	Methyl tert-Butyl Ether	0.846	0.802	5.2	101	0.00
29 T	Chloroform	2.304	2.175	5.6	102	0.00
30 T	Cyclohexane	1.110	1.151	-3.7	100	0.00
31 T	cis-1,2-Dichloroethene	1.389	1.346	3.1	99	0.00
32 T	1,1,1-Trichloroethane	2.239	2.119	5.4	101	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
34 T	2-Butanone	0.679	0.675	0.6	102	0.00
35 T	Carbon Tetrachloride	0.823	0.791	3.9	102	0.00
36 T	Benzene	0.955	0.974	-2.0	100	0.00
37 T	1,2-Dichloroethane	0.566	0.570	-0.7	103	0.00
38 T	Trichloroethene	0.398	0.407	-2.3	98	0.00
39 T	1,2-Dichloropropane	0.354	0.357	-0.8	101	0.00
40 T	1,4-Dioxane	0.152	0.160	-5.3	100	0.01
41 T	Tetrahydrofuran	0.351	0.385	-9.7	101	0.00
42 T	Bromodichloromethane	0.799	0.815	-2.0	102	0.01
43	Methyl Methacrylate	0.317	0.352	-11.0	98	0.01
44 T	2,2,4-Trimethylpentane	1.533	1.662	-8.4	103	0.01
45 T	t-1,3-Dichloropropene	0.290	0.308	-6.2	96	0.02
46 T	cis-1,3-Dichloropropene	0.409	0.435	-6.4	97	0.01
47 T	1,1,2-Trichloroethane	0.394	0.391	0.8	102	0.02
48 T	Dibromochloromethane	0.643	0.666	-3.6	99	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043044.D
 Acq On : 06 Oct 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.537	0.571	-6.3	100	0.00
50 T	4-Methyl-2-Pentanone	0.827	0.940	-13.7	102	0.02
51 T	2-Hexanone	0.589	0.704	-19.5	100	0.00
52 T	Tetrachloroethene	0.354	0.345	2.5	99	0.01
53 T	Toluene	0.965	1.082	-12.1	98	0.01
54 T	1,2-Dibromoethane	0.467	0.488	-4.5	100	0.01
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.01
56	1,1,1,2-Tetrachloroethane	0.610	0.615	-0.8	101	0.00
57 T	Chlorobenzene	1.057	1.054	0.3	101	0.00
58 T	Ethyl Benzene	1.549	1.783	-15.1	98	0.00
59 T	m/p-Xylene	1.307	1.488	-13.8	100	0.01
60 T	o-Xylene	1.302	1.498	-15.1	101	0.00
61 T	Styrene	0.545	0.659	-20.9	96	0.01
62	Isopropylbenzene	1.998	2.226	-11.4	101	0.00
63 T	1,1,2,2-Tetrachloroethane	0.934	0.943	-1.0	105	0.00
64	n-propylbenzene	0.511	0.591	-15.7	102	0.00
65	tert-Butylbenzene	1.778	2.029	-14.1	102	0.00
66 T	Benzyl Chloride	0.068	0.077	-13.2	108	0.00
67	sec-Butylbenzene	2.482	2.799	-12.8	102	0.00
68 S	1-Bromo-4-Fluorobenzene	0.720	0.748	-3.9	98	0.00
69	p-Isopropyltoluene	2.019	2.355	-16.6	101	0.00
70	n-Butylbenzene	1.944	2.335	-20.1	102	0.00
71	2-Chlorotoluene	1.446	1.649	-14.0	101	0.00
72 T	4-Ethyltoluene	1.549	1.836	-18.5	102	0.00
73 T	1,3,5-Trimethylbenzene	1.340	1.536	-14.6	101	0.00
74 T	1,2,4-Trimethylbenzene	1.513	1.731	-14.4	103	0.00
75 T	1,3-Dichlorobenzene	0.984	1.033	-5.0	102	0.00
76 T	1,4-Dichlorobenzene	0.938	1.027	-9.5	103	0.00
77 T	1,2-Dichlorobenzene	0.980	0.991	-1.1	103	0.00
78 T	Hexachloro-1,3-Butadiene	0.683	0.658	3.7	99	0.00
79 T	Naphthalene	0.903	1.299	-43.9#	98	0.00
80 T	Naphthalene,2-methyl-	0.457	0.527	-15.3	90	0.00
81 T	1,2,4-Trichlorobenzene	0.583	0.702	-20.4	98	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043044.D
 Acq On : 06 Oct 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	10.000	9.395	6.1	103	0.00
3	Chlorodifluoromethane	10.000	9.533	4.7	105	0.00
4	Chloromethane	10.000	9.590	4.1	106	0.00
5 T	Vinyl Chloride	10.000	9.214	7.9	103	0.00
6 T	Bromomethane	10.000	9.586	4.1	105	0.00
7	Chloroethane	10.000	9.255	7.4	105	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.398	6.0	103	0.00
9 T	Propene	10.000	9.135	8.7	98	0.00
10 T	Heptane	10.000	10.884	-8.8	103	0.01
11 T	Trichlorofluoromethane	10.000	9.306	6.9	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.236	7.6	101	0.00
13	Ethanol	10.000	10.290	-2.9	104	0.00
14 T	Bromoethene	10.000	9.398	6.0	101	0.00
15 T	Acetone	10.000	8.324	16.8	105	0.00
16 T	1,3-Butadiene	10.000	9.407	5.9	104	0.00
17	tert-Butyl alcohol	10.000	9.391	6.1	104	0.00
18 T	1,1-Dichloroethene	10.000	9.268	7.3	99	0.00
19 T	Isopropyl Alcohol	10.000	9.292	7.1	107	0.00
20 T	Methylene Chloride	10.000	8.046	19.5	104	0.00
21 T	Allyl Chloride	10.000	9.480	5.2	104	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.165	8.4	101	0.00
23 T	Vinyl Acetate	10.000	9.040	9.6	114	0.00
24 T	1,1-Dichloroethane	10.000	9.335	6.6	103	0.00
25 T	Ethyl Acetate	10.000	10.026	-0.3	103	0.00
26 T	Hexane	10.000	10.213	-2.1	102	0.00
27 T	Carbon Disulfide	10.000	9.595	4.0	104	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.481	5.2	101	0.00
29 T	Chloroform	10.000	9.442	5.6	102	0.00
30 T	Cyclohexane	10.000	10.362	-3.6	100	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.688	3.1	99	0.00
32 T	1,1,1-Trichloroethane	10.000	9.465	5.4	101	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	99	0.00
34 T	2-Butanone	10.000	9.944	0.6	102	0.00
35 T	Carbon Tetrachloride	10.000	9.619	3.8	102	0.00
36 T	Benzene	10.000	10.190	-1.9	100	0.00
37 T	1,2-Dichloroethane	10.000	10.066	-0.7	103	0.00
38 T	Trichloroethene	10.000	10.233	-2.3	98	0.00
39 T	1,2-Dichloropropane	10.000	10.069	-0.7	101	0.00
40 T	1,4-Dioxane	10.000	10.517	-5.2	100	0.01
41 T	Tetrahydrofuran	10.000	10.989	-9.9	101	0.00
42 T	Bromodichloromethane	10.000	10.194	-1.9	102	0.01
43	Methyl Methacrylate	10.000	11.093	-10.9	98	0.01
44 T	2,2,4-Trimethylpentane	10.000	10.839	-8.4	103	0.01
45 T	t-1,3-Dichloropropene	10.000	10.598	-6.0	96	0.02
46 T	cis-1,3-Dichloropropene	10.000	10.632	-6.3	97	0.01
47 T	1,1,2-Trichloroethane	10.000	9.917	0.8	102	0.02
48 T	Dibromochloromethane	10.000	10.366	-3.7	99	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043044.D
 Acq On : 06 Oct 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 07 01:32:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	10.633	-6.3	100	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.366	-13.7	102	0.02
51 T	2-Hexanone	10.000	11.945	-19.5	100	0.00
52 T	Tetrachloroethene	10.000	9.758	2.4	99	0.01
53 T	Toluene	10.000	11.220	-12.2	98	0.01
54 T	1,2-Dibromoethane	10.000	10.454	-4.5	100	0.01
55 I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.01
56	1,1,1,2-Tetrachloroethane	10.000	10.090	-0.9	101	0.00
57 T	Chlorobenzene	10.000	9.973	0.3	101	0.00
58 T	Ethyl Benzene	10.000	11.509	-15.1	98	0.00
59 T	m/p-Xylene	20.000	22.776	-13.9	100	0.01
60 T	o-Xylene	10.000	11.509	-15.1	101	0.00
61 T	Styrene	10.000	12.082	-20.8	96	0.01
62	Isopropylbenzene	10.000	11.142	-11.4	101	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.098	-1.0	105	0.00
64	n-propylbenzene	10.000	11.553	-15.5	102	0.00
65	tert-Butylbenzene	10.000	11.407	-14.1	102	0.00
66 T	Benzyl Chloride	10.000	11.284	-12.8	108	0.00
67	sec-Butylbenzene	10.000	11.277	-12.8	102	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.377	-3.8	98	0.00
69	p-Isopropyltoluene	10.000	11.667	-16.7	101	0.00
70	n-Butylbenzene	10.000	12.010	-20.1	102	0.00
71	2-Chlorotoluene	10.000	11.405	-14.0	101	0.00
72 T	4-Ethyltoluene	10.000	11.852	-18.5	102	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.461	-14.6	101	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.441	-14.4	103	0.00
75 T	1,3-Dichlorobenzene	10.000	10.501	-5.0	102	0.00
76 T	1,4-Dichlorobenzene	10.000	10.944	-9.4	103	0.00
77 T	1,2-Dichlorobenzene	10.000	10.112	-1.1	103	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.640	3.6	99	0.00
79 T	Naphthalene	10.000	10.118	-1.2	98	0.00
80 T	Naphthalene,2-methyl-	10.000	8.885	11.2	90	0.00
81 T	1,2,4-Trichlorobenzene	10.000	12.033	-20.3	98	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043045.D
 Acq On : 06 Oct 2025 09:19
 Operator : SY/MD
 Sample : VL1006ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1006ABL01

Quant Time: Oct 07 01:32:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	178856	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	516182	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	413895	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	290223	9.734	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.300%

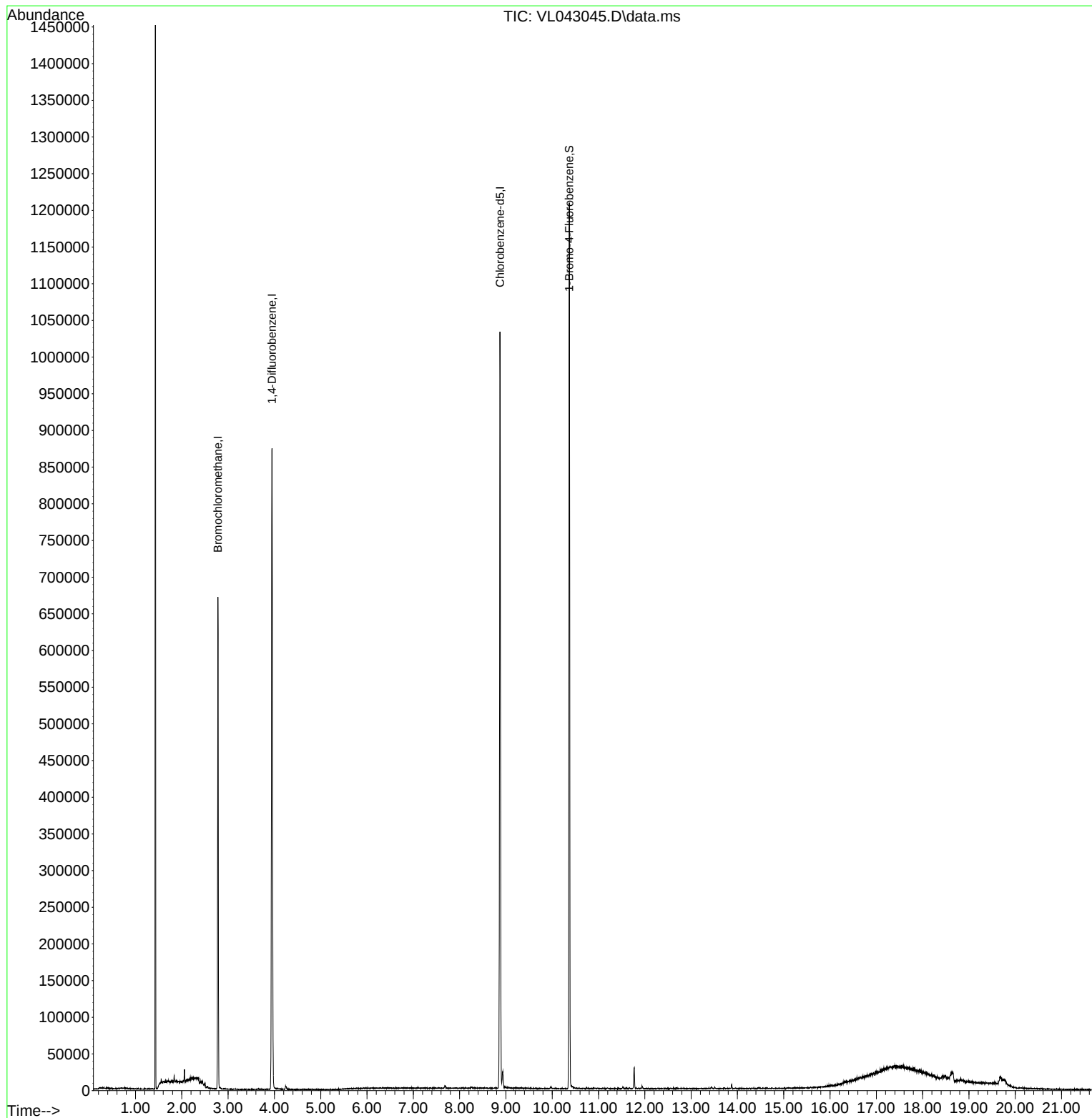
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043045.D
Acq On : 06 Oct 2025 09:19
Operator : SY/MD
Sample : VL1006ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1006ABL01

Quant Time: Oct 07 01:32:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043046.D
 Acq On : 06 Oct 2025 10:12
 Operator : SY/MD
 Sample : VL1006ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1006ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/08/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 07 01:33:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	188357	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	537601	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	447189	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 338181 10.498 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	295209	9.299	ppbv	99
3) Chlorodifluoromethane	1.473	51	282563	9.201	ppbv	100
4) Chloromethane	1.531	50	106576	9.191	ppbv	97
5) Vinyl Chloride	1.576	62	101063	9.184	ppbv	99
6) Bromomethane	1.664	94	47460	9.598	ppbv	94
7) Chloroethane	1.703	64	42252	9.201	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	247037	9.497	ppbv	97
9) Propene	1.483	41	113498	9.166	ppbv	99
10) Heptane	4.965	43	320280	10.521	ppbv	100
11) Trichlorofluoromethane	1.874	101	302747	9.280	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.133	101	239211	9.310	ppbv	99
13) Ethanol	1.719	45	4927	9.710	ppbv	99
14) Bromoethene	1.777	108	87214	9.468	ppbv	99
15) Acetone	1.832	43	213544	8.097	ppbv	99
16) 1,3-Butadiene	1.606	39	99231	9.126	ppbv	99
17) tert-Butyl alcohol	2.033	59	260280	9.330	ppbv	100
18) 1,1-Dichloroethene	2.030	96	102725	9.120	ppbv	96
19) Isopropyl Alcohol	1.881	45	111933	8.858	ppbv	99
20) Methylene Chloride	2.059	84	90931	7.899	ppbv	98
21) Allyl Chloride	2.091	41	157109	9.299	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	117166	9.162	ppbv	98
23) Vinyl Acetate	2.457	43	42991	7.678	ppbv	99
24) 1,1-Dichloroethane	2.402	63	225170	9.289	ppbv	99
25) Ethyl Acetate	2.826	43	647632	9.789	ppbv	100
26) Hexane	2.819	57	258251	10.147	ppbv	100
27) Carbon Disulfide	2.146	76	283466	9.434	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	147013	9.230	ppbv	99
29) Chloroform	2.842	83	402053	9.266	ppbv	100
30) Cyclohexane	3.845	84	213947	10.230	ppbv	98
31) cis-1,2-Dichloroethene	2.712	61	247932	9.477	ppbv	95
32) 1,1,1-Trichloroethane	3.360	97	392565	9.309	ppbv	99
34) 2-Butanone	2.547	43	347648	9.530	ppbv	100
35) Carbon Tetrachloride	3.751	117	414732	9.377	ppbv	96
36) Benzene	3.648	78	513451	9.997	ppbv	99
37) 1,2-Dichloroethane	3.208	62	296234	9.738	ppbv	100
38) Trichloroethene	4.535	130	213507	9.979	ppbv	99
39) 1,2-Dichloropropane	4.302	63	185321	9.734	ppbv	96
40) 1,4-Dioxane	4.564	88	80157	9.816	ppbv #	96
41) Tetrahydrofuran	3.043	42	199341	10.573	ppbv	100
42) Bromodichloromethane	4.473	83	422079	9.826	ppbv	99
43) Methyl Methacrylate	4.862	69	185044	10.853	ppbv	99
44) 2,2,4-Trimethylpentane	4.625	57	871720	10.577	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	157655	10.104	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043046.D
 Acq On : 06 Oct 2025 10:12
 Operator : SY/MD
 Sample : VL1006ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1006ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/08/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 07 01:33:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	228082	10.375	ppbv	97
47) 1,1,2-Trichloroethane	6.561	97	201822	9.530	ppbv	96
48) Dibromochloromethane	7.373	129	341429	9.879	ppbv	100
49) Bromoform	9.474	173	279106	9.669	ppbv	100
50) 4-Methyl-2-Pentanone	5.726	43	489303	11.000	ppbv	98
51) 2-Hexanone	7.419	43	361924	11.431	ppbv #	97
52) Tetrachloroethene	8.215	164	178891	9.406	ppbv	100
53) Toluene	6.917	91	563494	10.867	ppbv	100
54) 1,2-Dibromoethane	7.639	107	248606	9.905	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.914	131	264054	9.687	ppbv	99
57) Chlorobenzene	8.911	112	456710	9.661	ppbv	99
58) Ethyl Benzene	9.344	91	767600	11.080	ppbv	98
59) m/p-Xylene	9.542	91	1275234m	21.824	ppbv	
60) o-Xylene	9.956	91	632243	10.862	ppbv	98
61) Styrene	9.862	104	275280	11.289	ppbv	99
62) Isopropylbenzene	10.532	105	945764	10.584	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	373448	8.943	ppbv	99
64) n-propylbenzene	10.982	120	246252	10.773	ppbv	99
65) tert-Butylbenzene	11.523	119	829195	10.427	ppbv	100
66) Benzyl Chloride	11.607	91	28281	9.305	ppbv	99
67) sec-Butylbenzene	11.759	105	1139275	10.266	ppbv	100
69) p-Isopropyltoluene	11.917	119	953493	10.562	ppbv	99
70) n-Butylbenzene	12.274	91	920477	10.590	ppbv	100
71) 2-Chlorotoluene	10.891	91	679459	10.507	ppbv	99
72) 4-Ethyltoluene	11.118	105	752627	10.863	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	630941	10.527	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	702152	10.380	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	409449	9.307	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	401258	9.565	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	389675	8.892	ppbv	99
78) Hexachloro-1,3-Butadiene	13.872	225	292520	9.580	ppbv	99
79) Naphthalene	13.503	128	548561	9.592	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	207324	7.891	ppbv	99
81) 1,2,4-Trichlorobenzene	13.432	180	312207	11.975	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
 Data File : VL043047.D
 Acq On : 06 Oct 2025 10:50
 Operator : SY/MD
 Sample : QC092925 CAN 10198
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC092925 CAN 10198

Quant Time: Oct 07 01:34:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	179875	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	513223	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	411248	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	285855	9.649	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%

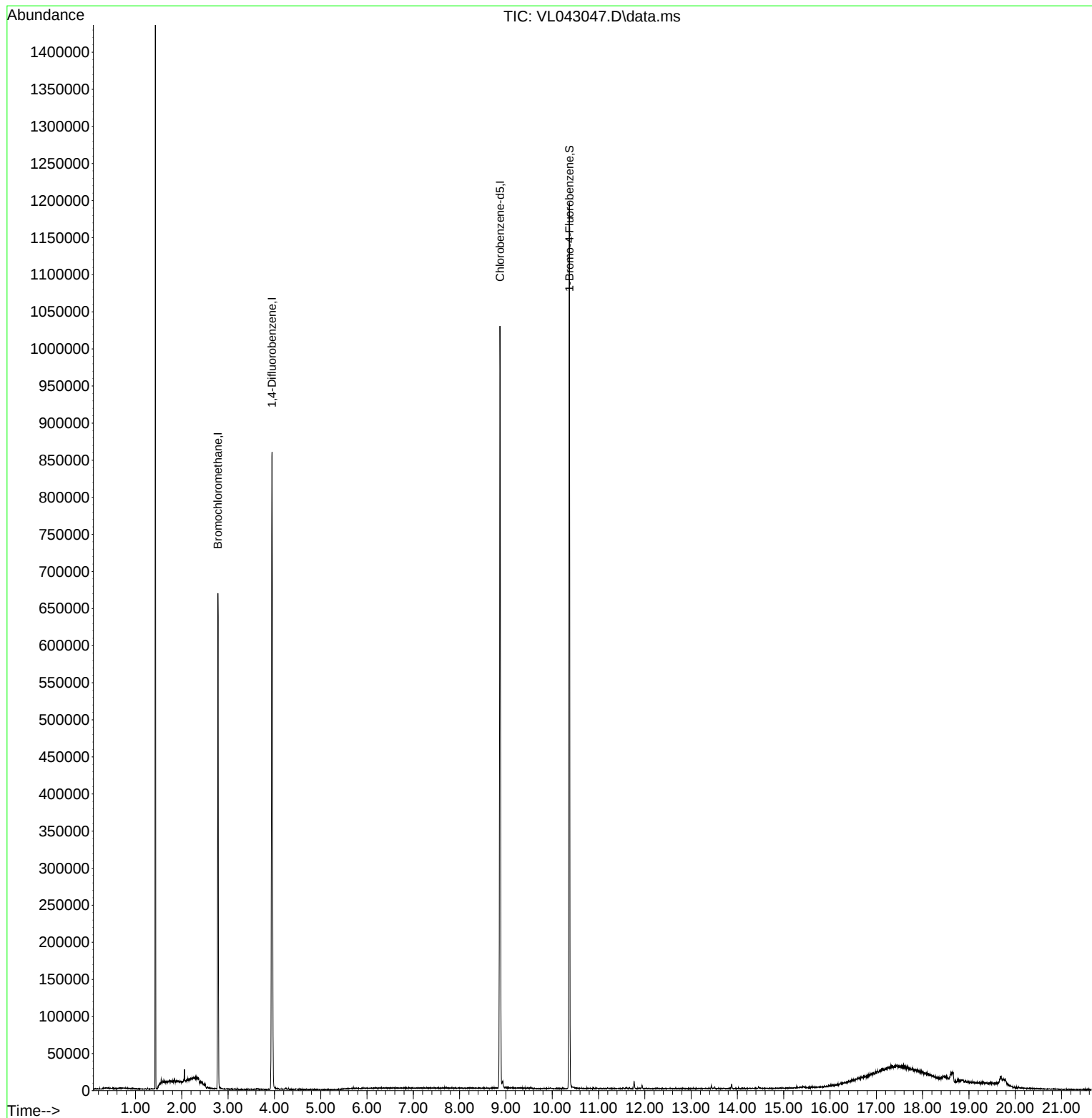
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100625\
Data File : VL043047.D
Acq On : 06 Oct 2025 10:50
Operator : SY/MD
Sample : QC092925 CAN 10198
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC092925 CAN 10198

Quant Time: Oct 07 01:34:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL100225

Review By	Semsettin Yesilyurt	Review On	10/3/2025 9:49:03 AM		
Supervise By	Maresh Dadoda	Supervise On	10/10/2025 2:54:57 AM		
SubDirectory	VL100225	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2682			
Initial Calibration Stds		AP2678,AP2679,AP2680			
CCC		AP2678			
Internal Standard/PEM		AP2682			
ICV/I.BLK		AP2681			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampled	Data File Name	Date-Time	Operator	Status
1	BFB	VL043030.D	02 Oct 2025 09:11	SY/MD	Ok
2	VSTDIC0.5	VL043031.D	02 Oct 2025 09:50	SY/MD	Ok,M
3	VSTDICCC010	VL043032.D	02 Oct 2025 10:23	SY/MD	Ok,M
4	VSTDIC002	VL043033.D	02 Oct 2025 10:57	SY/MD	Ok,M
5	VSTDIC001	VL043034.D	02 Oct 2025 11:29	SY/MD	Ok,M
6	VSTDIC0.5	VL043035.D	02 Oct 2025 12:02	SY/MD	Not Ok
7	VSTDIC0.1	VL043036.D	02 Oct 2025 12:35	SY/MD	Ok,M
8	VSTDIC0.03	VL043037.D	02 Oct 2025 13:07	SY/MD	Ok,M
9	VSTDIC015	VL043038.D	02 Oct 2025 13:41	SY/MD	Ok,M
10	VSTDICV010	VL043039.D	02 Oct 2025 14:14	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL100625

Review By	Semsettin Yesilyurt	Review On	10/8/2025 10:36:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 2:51:29 AM		
SubDirectory	VL100625	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2682				
Initial Calibration Stds	AP2678,AP2679,AP2680				
CCC	AP2678				
Internal Standard/PEM	AP2682				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043043.D	06 Oct 2025 07:57	SY/MD	Ok
2	VSTDCCC010	VL043044.D	06 Oct 2025 08:38	SY/MD	Ok,M
3	VL1006ABL01	VL043045.D	06 Oct 2025 09:19	SY/MD	Ok
4	VL1006ABS01	VL043046.D	06 Oct 2025 10:12	SY/MD	Ok,M
5	QC092925 CAN 10198	VL043047.D	06 Oct 2025 10:50	SY/MD	Ok
6	QC092425 CAN 10590	VL043048.D	06 Oct 2025 11:23	SY/MD	Ok
7	CAN 10296	VL043049.D	06 Oct 2025 11:56	SY/MD	Ok
8	CAN 10312	VL043050.D	06 Oct 2025 12:29	SY/MD	Ok
9	Q2893-14 0.5 LOQ	VL043051.D	06 Oct 2025 13:38	SY/MD	ReRun
10	Q2893-14 0.03 LOQ	VL043052.D	06 Oct 2025 14:11	SY/MD	Ok,M

M : Manual Integration