

Process Report

Order ID : Q3557

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/06/2025	B2510050	Q3557-04	-8.4	10674	1.4 L	10543		C2509004	VL042989.D Seq :VL092325 TUNE : VL042982.D ICAL : VL042955.D CCAL : VL042983.D MB : VL042984.D
11/06/2025	B2510050	Q3557-05	-9.6	10428	1.4 L	10484		C2509004	VL042989.D Seq :VL092325 TUNE : VL042982.D ICAL : VL042955.D CCAL : VL042983.D MB : VL042984.D
11/06/2025	B2510050	Q3557-02	-4.3	10300	6 L	10520		C2509002	VL042942.D Seq :VL091825 TUNE : VL042938.D ICAL : VL042934.D CCAL : VL042939.D MB : VL042940.D
11/06/2025	B2510050	Q3557-01	-4.7	10296	6 L	10482		C2505005	VL042598.D Seq :VL052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
11/06/2025	B2510050	Q3557-03	-5.1	10060	6 L	10236		C2509002	VL042942.D Seq :VL091825 TUNE : VL042938.D ICAL : VL042934.D CCAL : VL042939.D MB : VL042940.D



Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2509004

Type of Canister : 1.4 L

Cleaning Date : 02/26/2025

Analyst : sam

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10747	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-07	10747	VL042989.D
10752	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3556-04	10747	VL042989.D
10470	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10464	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10435	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10123	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10737	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3556-03	10747	VL042989.D
10420	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-03	10420	VL042990.D
10743	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-06	10743	VL042991.D
10451	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10428	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3557-05	10747	VL042989.D
10423	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3555-04	10747	VL042989.D
10668	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-04	10668	VL042992.D
10122	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D
10136	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-01	10136	VL042987.D
10147	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-02	10147	VL042986.D
10674	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3557-04	10747	VL042989.D
10684	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3285-05	10684	VL042988.D
10653	-30	02/26/2025	09/23/2025	-30	02/27/2025	Q3555-03	10747	VL042989.D
10746	-30	02/26/2025	09/23/2025	-30	02/27/2025		10747	VL042989.D



Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2509002

Type of Canister : 6 L

Cleaning Date : 09/11/2025

Analyst : sam

Oven Temperature : 125.0 c

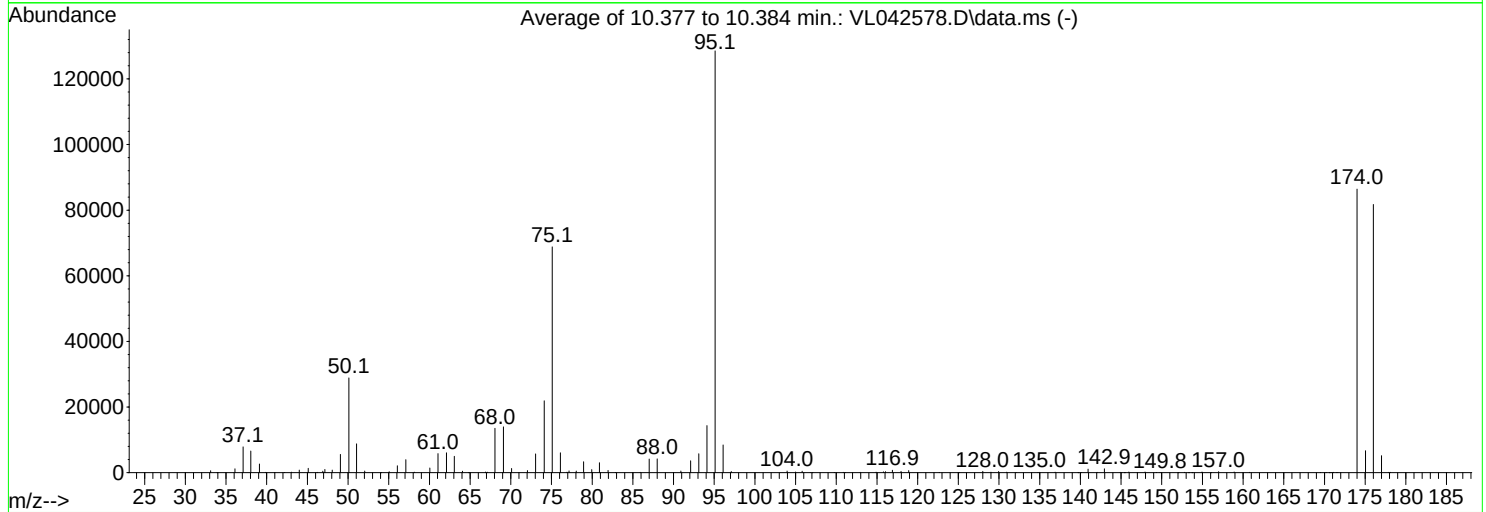
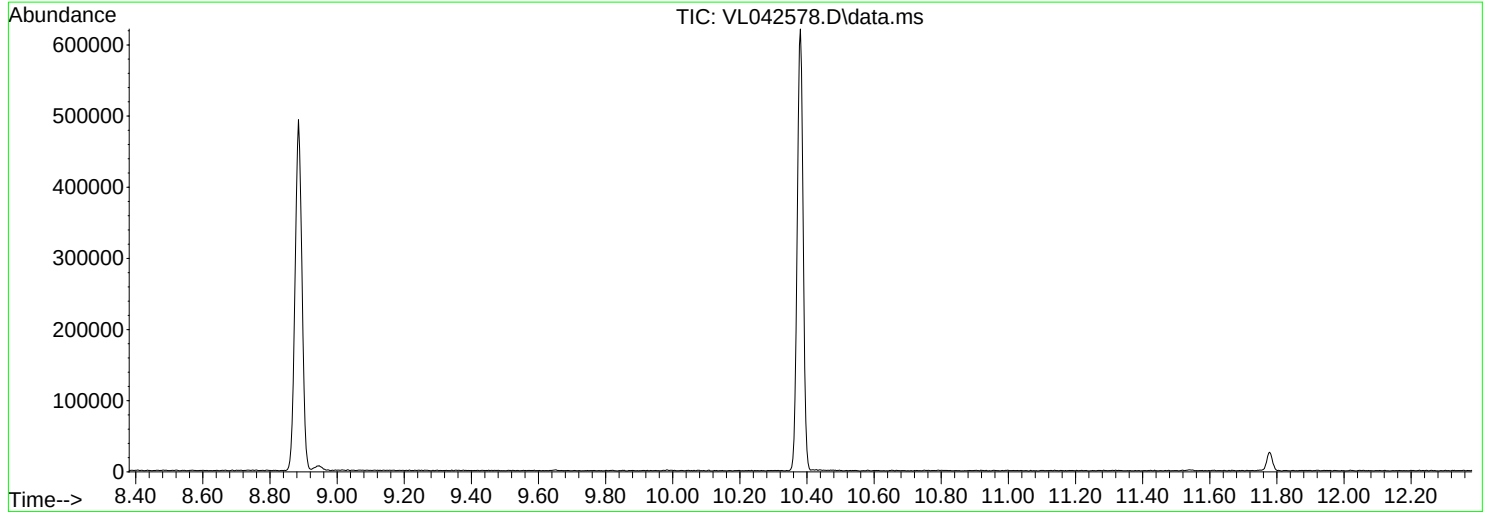
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10153	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3555-01	10060	VL042942.D
10283	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3556-02	10060	VL042942.D
10060	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3557-03	10060	VL042942.D
10602	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3320-03	10060	VL042942.D
10300	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3557-02	10060	VL042942.D
10443	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3320-06	10060	VL042942.D
10266	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3556-01	10060	VL042942.D
10053	-30	09/12/2025	09/18/2025	-30	09/15/2025	Q3320-01	10060	VL042942.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042578.D
Acq On : 29 May 2025 08:05
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\VL052025AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed May 21 00:21:29 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.4	28861	PASS
75	95	30	66	53.5	68792	PASS
95	95	100	100	100.0	128557	PASS
96	95	5	9	6.6	8426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	86397	PASS
175	174	4	9	7.7	6664	PASS
176	174	93	101	94.6	81744	PASS
177	176	5	9	6.3	5154	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	604	45.10	1310	56.05	2107	68.05	1349
33.90	20	46.20	82	57.10	3938	69.10	1396
36.10	1179	46.90	454	58.15	159	70.10	125
37.10	7865	47.15	999	60.05	1394	71.00	7
38.05	6599	48.05	784	61.05	5793	72.05	616
39.10	2657	49.05	5570	62.10	6048	73.05	5702
39.90	81	50.10	28861	63.05	4979	74.10	21883
41.00	66	51.05	8796	64.05	430	75.10	68792
42.20	45	52.05	485	64.80	28	76.10	6072
43.05	164	54.00	17	66.90	188	76.90	143
44.00	762	55.05	314	67.10	147	77.15	541

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	512	93.10	5769	110.85	127	128.00	371
78.95	3322	94.10	14351	111.10	39	129.00	147
79.95	936	95.10	128557	112.95	118	129.95	325
80.90	3038	96.10	8426	114.90	160	130.95	149
81.95	666	97.10	324	115.80	234	132.10	57
82.85	69	103.95	507	116.05	275	134.80	45
85.90	102	105.00	185	116.90	719	135.00	127
87.00	4138	105.80	434	117.95	400	136.90	144
88.00	4195	106.80	76	118.90	638	139.70	25
90.90	504	107.00	24	122.65	40	140.10	50
92.10	3594	109.75	56	125.00	20	140.95	1056

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.05	103	152.80	86	170.90	53		
142.95	1152	153.30	25	171.10	116		
144.90	93	153.70	29	171.50	43		
145.10	33	154.95	214	171.65	64		
145.40	18	156.00	20	172.00	56		
145.95	182	157.00	303	174.00	86397		
147.00	65	158.90	220	175.05	6664		
147.95	210	160.80	92	176.00	81744		
149.35	45	169.50	60	177.00	5154		
149.80	42	170.20	51	177.90	98		
152.00	19	170.60	17	178.10	81		

Instrument :

MSVOA_L

ClientSampleId :

BFB

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

Method File : VL052925AIR.M

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

Last Update : Fri May 30 02:01:56 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042584.D 0.1 =VL042583.D 0.5 =VL042582.D 1 =VL042581.D 2 =VL042580.D 10 =VL042579.D 15 =VL042585.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.257	1.353	1.300	1.135	1.101	1.229	8.78
3) Chlorodifluoro...			1.881	1.861	1.826	1.475	1.420	1.693	13.32
4) Chloromethane			0.502	0.529	0.507	0.461	0.434	0.487	7.85
5) T Vinyl Chloride	0.675	0.465	0.529	0.487	0.468	0.437	0.409	0.496	17.69
6) T Bromomethane			0.310	0.251	0.230	0.216	0.200	0.241	17.69
7) Chloroethane			0.214	0.212	0.198	0.175	0.164	0.193	11.60
8) T Dichlorotetra...			1.099	1.098	1.075	0.948	0.900	1.024	9.11
9) T Propene			0.710	0.728	0.722	0.650	0.599	0.682	8.18
10) T Heptane			2.079	2.082	1.981	1.777	1.688	1.921	9.37
11) T Trichlorofluor...			1.193	1.209	1.202	1.071	1.043	1.144	6.98
12) T 1,1,2-Trichlor...			0.903	0.980	0.951	0.838	0.818	0.898	7.79
13) Ethanol			0.114	0.095	0.092	0.058	0.047	0.081	33.96
14) T Bromoethene			0.359	0.346	0.362	0.317	0.304	0.338	7.71
15) T Acetone			1.404	1.484	1.299	0.928	0.908	1.205	22.39
16) T 1,3-Butadiene			0.649	0.636	0.597	0.491	0.480	0.571	14.07
17) tert-Butyl alc...			1.337	1.334	1.279	1.237	1.088	1.255	8.14
18) T 1,1-Dichloroet...			0.451	0.451	0.437	0.377	0.364	0.416	10.11
19) T Isopropyl Alcohol			0.825	0.782	0.742	0.659	0.593	0.720	13.03
20) T Methylene Chlo...			0.473	0.457	0.418	0.326	0.314	0.398	18.57
21) T Allyl Chloride			0.924	0.921	0.866	0.789	0.749	0.850	9.22
22) T trans-1,2-Dich...			0.496	0.517	0.466	0.427	0.418	0.465	9.21
23) T Vinyl Acetate			1.750	1.663	1.686	1.458	1.584	1.628	6.89
24) T 1,1-Dichloroet...			0.996	1.046	1.004	0.903	0.833	0.957	9.03
25) T Ethyl Acetate			3.496	3.585	3.412	3.054	2.934	3.296	8.67
26) T Hexane			1.690	1.638	1.526	1.350	1.286	1.498	11.76
27) T Carbon Disulfide			1.174	1.267	1.198	1.069	1.040	1.150	8.16
28) T Methyl tert-Bu...			0.664	0.693	0.621	0.550	0.511	0.608	12.59
29) T Chloroform			2.099	2.120	2.034	1.755	1.731	1.948	9.74
30) T Cyclohexane			1.318	1.363	1.288	1.146	1.092	1.242	9.38
31) T cis-1,2-Dichlo...			1.419	1.461	1.465	1.271	1.235	1.370	7.96
32) T 1,1,1-Trichlor...	2.207	2.083	2.004	2.043	2.029	1.794	1.771	1.990	7.86

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35) T Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36) T Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37) T 1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38) T Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39) T 1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL052925AIR.M											
40)	T	1,4-Dioxane			0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran			0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...			0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...			0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...			1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...			0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...			0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...			0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...			0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform			0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...			1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone			0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351	0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene			1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane		0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene			1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene			1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene			1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene			1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene			0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene			2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054	0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene			0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene			1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride			0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene			2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752	0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...			2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene			2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene			1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene			1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...			1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...			1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...			1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...			0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...			1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...			0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene		1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...			0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...			0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 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 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	212758	9.929	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	104930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 210508 9.881 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv	99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv	98
4) Chloromethane	1.534	50	10641	2.084	ppbv	98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv	98
6) Bromomethane	1.670	94	4819	1.903	ppbv	83
7) Chloroethane	1.706	64	4162	2.059	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv	98
9) Propene	1.483	41	15155	2.119	ppbv	96
10) Heptane	4.988	43	41577	2.060	ppbv	97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv	99
13) Ethanol	1.722	45	1925m	2.411	ppbv	
14) Bromoethene	1.784	108	7607	2.146	ppbv #	94
15) Acetone	1.839	43	27254	2.156	ppbv	100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv	95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv	96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv	95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv #	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv	95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv	97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv	98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv	99
26) Hexane	2.829	57	32018	2.037	ppbv	97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv #	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv #	90
29) Chloroform	2.852	83	42693	2.089	ppbv	93
30) Cyclohexane	3.858	84	27030	2.075	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv	93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv	99
34) 2-Butanone	2.564	43	46279	2.093	ppbv	100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv	95
36) Benzene	3.661	78	63709	2.086	ppbv	96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv	97
38) Trichloroethene	4.554	130	27139	2.075	ppbv	95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv	98
40) 1,4-Dioxane	4.603	88	10426m	2.173	ppbv	
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv	96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv	90
43) Methyl Methacrylate	4.894	69	25156m	2.126	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv	100
45) t-1,3-Dichloropropene	6.432	75	28273m	2.085	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv	94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv	99
49) Bromoform	9.487	173	34270	2.122	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv	99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv #	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv	95
53) Toluene	6.940	91	74240	2.104	ppbv	99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv	97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv	95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv	96
59) m/p-Xylene	9.558	91	162694m	4.288	ppbv	
60) o-Xylene	9.969	91	81886	2.164	ppbv	97
61) Styrene	9.879	104	38542	2.154	ppbv	99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv	99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv	100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv	99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv	98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv	99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv	99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv	100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv	99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv	98
79) Naphthalene	13.517	128	101451	2.494	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 209886 10.021 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv	95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv	99
4) Chloromethane	1.531	50	5387	1.087	ppbv	89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv	99
6) Bromomethane	1.667	94	2560	1.041	ppbv	99
7) Chloroethane	1.703	64	2164	1.103	ppbv #	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv	98
9) Propene	1.483	41	7413	1.068	ppbv	97
10) Heptane	4.981	43	21213m	1.083	ppbv	
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv	98
13) Ethanol	1.722	45	968	1.249	ppbv #	61
14) Bromoethene	1.780	108	3524	1.024	ppbv #	97
15) Acetone	1.835	43	15114	1.232	ppbv	98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv	92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv #	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv	85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv #	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv	98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv #	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv	98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv #	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv	99
26) Hexane	2.826	57	16686	1.094	ppbv	99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv #	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv	93
29) Chloroform	2.849	83	21594	1.088	ppbv	100
30) Cyclohexane	3.858	84	13889	1.098	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv	89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv	97
34) 2-Butanone	2.560	43	23148	1.057	ppbv	99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv	89
36) Benzene	3.658	78	32310	1.068	ppbv	99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv	97
38) Trichloroethene	4.551	130	13969	1.078	ppbv	98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv	87
40) 1,4-Dioxane	4.600	88	5479m	1.153	ppbv	
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv	99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv #	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	56202m	1.087	ppbv	
45) t-1,3-Dichloropropene	6.415	75	13988m	1.041	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

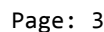
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	17453m	1.037	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	12328m	1.065	ppbv	
48) Dibromochloromethane	7.393	129	19719	1.064	ppbv	99
49) Bromoform	9.484	173	15937	0.996	ppbv	96
50) 4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv	99
51) 2-Hexanone	7.445	43	25135	1.043	ppbv #	96
52) Tetrachloroethene	8.228	164	11770	1.041	ppbv	97
53) Toluene	6.936	91	36540	1.045	ppbv	97
54) 1,2-Dibromoethane	7.658	107	18114	1.055	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv	95
57) Chlorobenzene	8.927	112	28714	1.058	ppbv	100
58) Ethyl Benzene	9.357	91	49899	1.053	ppbv	96
59) m/p-Xylene	9.535	91	78893m	2.115	ppbv	
60) o-Xylene	9.966	91	39398	1.059	ppbv	99
61) Styrene	9.875	104	18371	1.045	ppbv	100
62) Isopropylbenzene	10.542	105	59492	1.083	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv	99
64) n-propylbenzene	10.992	120	15107	1.026	ppbv	90
65) tert-Butylbenzene	11.532	119	53720	1.077	ppbv	99
66) Benzyl Chloride	11.617	91	6617	1.029	ppbv	98
67) sec-Butylbenzene	11.769	105	76631	1.093	ppbv	100
69) p-Isopropyltoluene	11.927	119	62849	1.070	ppbv	100
70) n-Butylbenzene	12.283	91	63350	1.093	ppbv	99
71) 2-Chlorotoluene	10.901	91	45250	1.080	ppbv	99
72) 4-Ethyltoluene	11.128	105	50214	1.083	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv #	90
75) 1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv	98
79) Naphthalene	13.517	128	45649	1.141	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv	97

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

Manual Integrations

Quant Time: May 30 01:18:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv	98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv	96
4) Chloromethane	1.531	50	2584	0.516	ppbv	97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv	96
6) Bromomethane	1.667	94	1594	0.642	ppbv #	74
7) Chloroethane	1.706	64	1099	0.554	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv	97
9) Propene	1.483	41	3653	0.521	ppbv	87
10) Heptane	4.988	43	10697	0.540	ppbv	98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv	89
13) Ethanol	1.722	45	586m	0.748	ppbv	
14) Bromoethene	1.781	108	1849	0.532	ppbv #	84
15) Acetone	1.836	43	7225	0.583	ppbv	95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv	89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv #	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv #	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv #	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv	93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv	96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv	93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv #	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv #	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv	98
26) Hexane	2.826	57	8694	0.564	ppbv	96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv #	81
29) Chloroform	2.849	83	10798	0.539	ppbv	98
30) Cyclohexane	3.855	84	6784m	0.531	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv	98
34) 2-Butanone	2.564	43	11569	0.533	ppbv	99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv	92
36) Benzene	3.661	78	16000	0.533	ppbv	95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv	98
38) Trichloroethene	4.554	130	7126	0.555	ppbv	92
39) 1,2-Dichloropropane	4.318	63	6317m	0.570	ppbv	
40) 1,4-Dioxane	4.609	88	2618m	0.555	ppbv	
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv	96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv	94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:19:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	8637m	0.518	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	6189m	0.539	ppbv	
48) Dibromochloromethane	7.399	129	9133m	0.497	ppbv	
49) Bromoform	9.484	173	7974	0.503	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	15782m	0.522	ppbv	
51) 2-Hexanone	7.451	43	11458	0.479	ppbv #	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv	87
53) Toluene	6.940	91	18429	0.532	ppbv	100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv	89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv	89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv	88
59) m/p-Xylene	9.555	91	38955m	1.057	ppbv	
60) o-Xylene	9.966	91	19745	0.537	ppbv	99
61) Styrene	9.875	104	8639	0.497	ppbv	99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv	97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv	97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv	99
66) Benzyl Chloride	11.614	91	2753m	0.433	ppbv	
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv	98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv	99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv	98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv	100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv	97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv	86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv #	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv	97
79) Naphthalene	13.517	128	18853	0.477	ppbv	96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042583.D
 Acq On : 29 May 2025 13:19
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%
Target Compounds						
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
38) Trichloroethene	4.548	130	1305m	0.102	ppbv	
52) Tetrachloroethene	8.238	164	1230m	0.111	ppbv	
54) 1,2-Dibromoethane	7.658	107	1737m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv	96
79) Naphthalene	13.523	128	2980m	0.076	ppbv	

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

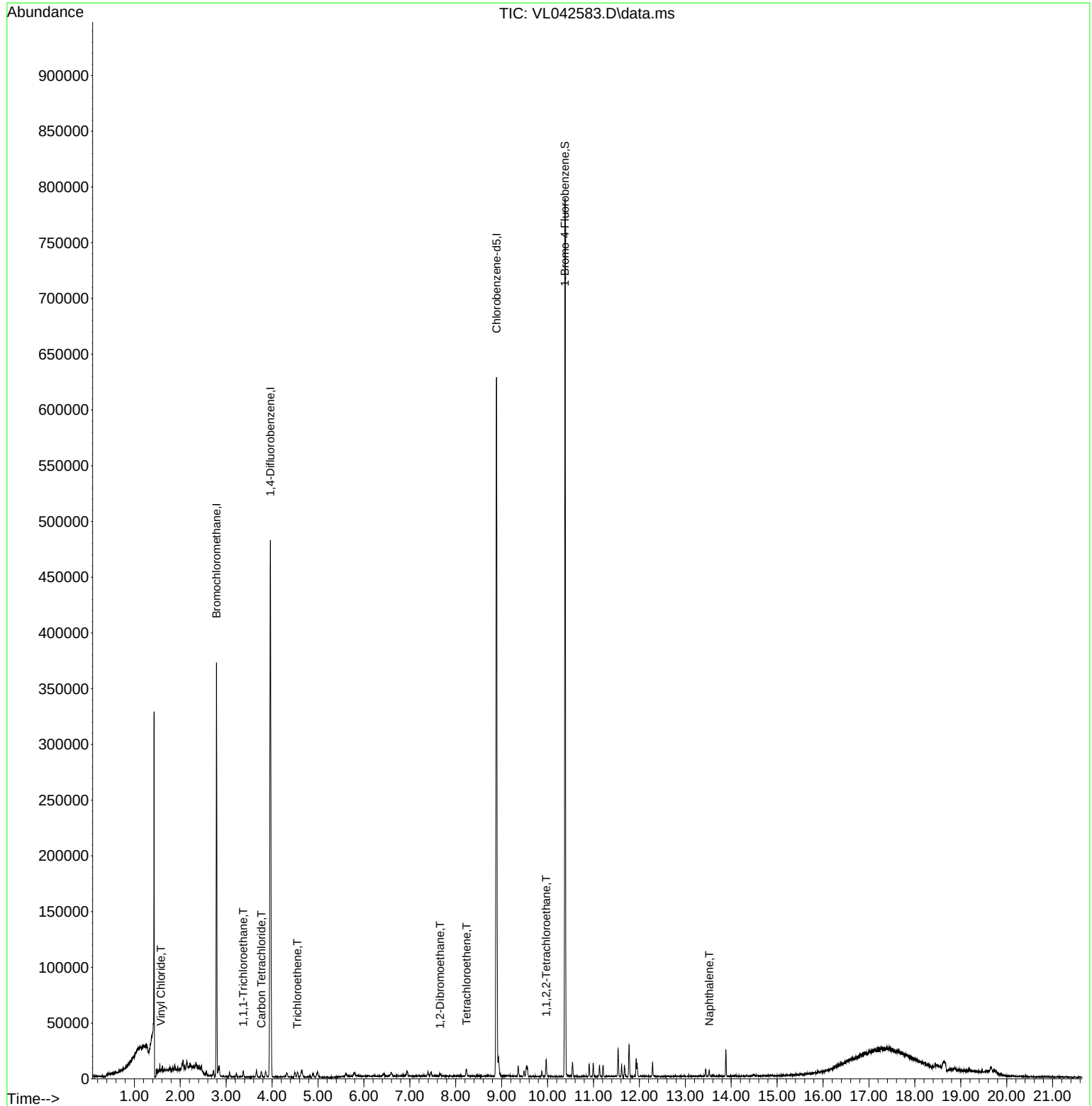
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042584.D
 Acq On : 29 May 2025 13:51
 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 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.577	62	209	0.041	ppbv #	77
32) 1,1,1-Trichloroethane	3.373	97	683m	0.034	ppbv	
35) Carbon Tetrachloride	3.764	117	623m	0.031	ppbv	
38) Trichloroethene	4.541	130	356m	0.028	ppbv	
52) Tetrachloroethene	8.228	164	321m	0.029	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv #	82

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

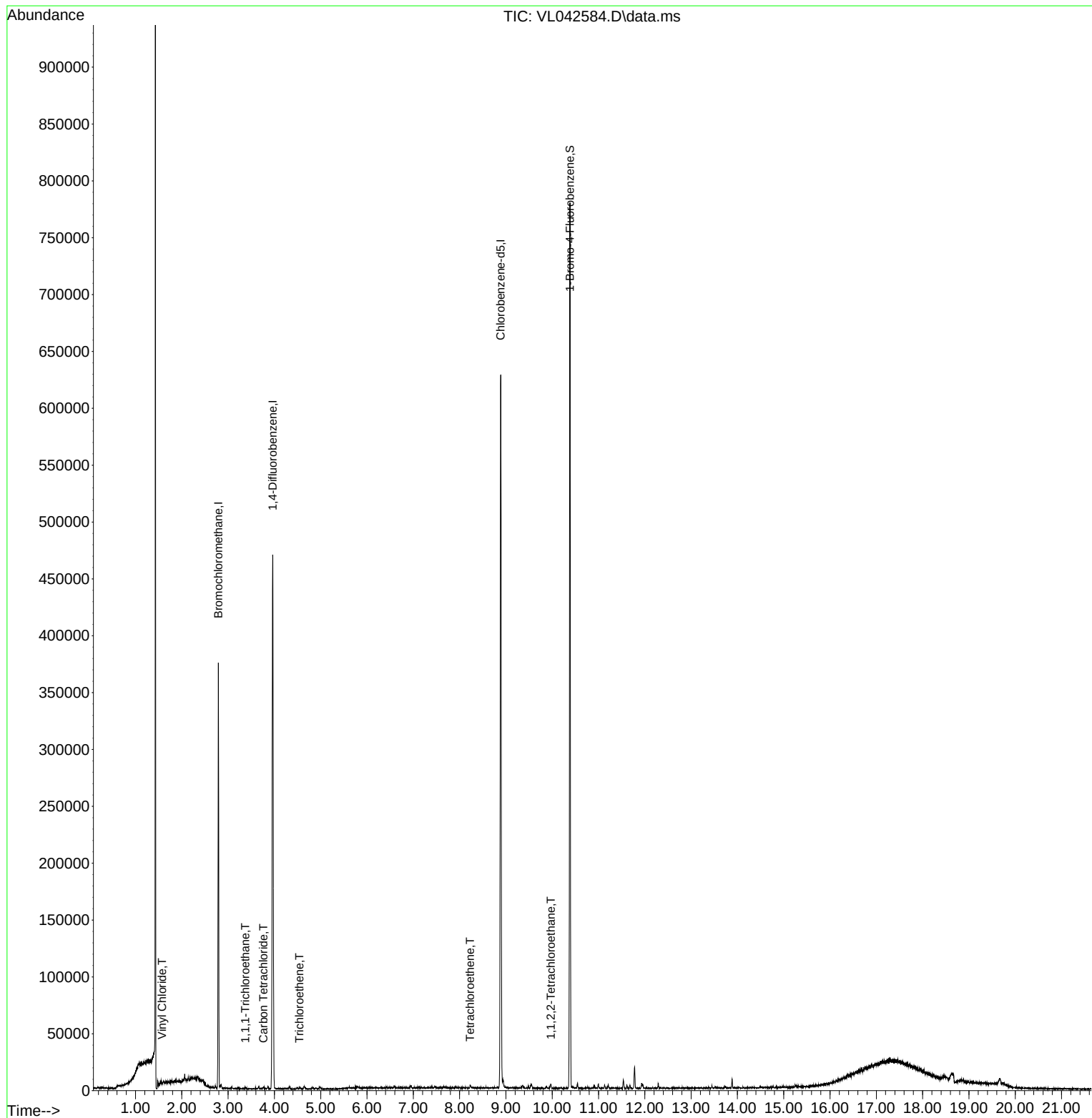
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
Supervised By : Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 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 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 207170 10.053 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv	98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv	99
4) Chloromethane	1.534	50	67662	13.380	ppbv	99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv	98
6) Bromomethane	1.667	94	31141	12.420	ppbv	100
7) Chloroethane	1.706	64	25591	12.785	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv	99
9) Propene	1.483	41	93357	13.181	ppbv	97
10) Heptane	4.988	43	263111	13.165	ppbv	100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv	99
13) Ethanol	1.722	45	7390m	9.346	ppbv	
14) Bromoethene	1.784	108	47382	13.501	ppbv	99
15) Acetone	1.835	43	141460	11.302	ppbv	98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv	100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv	100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv	99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv	98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv	97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv	97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv	99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv	99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv	99
26) Hexane	2.829	57	200386	12.876	ppbv	99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv	100
29) Chloroform	2.852	83	269752	13.328	ppbv	98
30) Cyclohexane	3.861	84	170261	13.196	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv	99
34) 2-Butanone	2.560	43	294628	13.689	ppbv	99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv	98
36) Benzene	3.661	78	404641	13.615	ppbv	99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv	100
38) Trichloroethene	4.551	130	168824	13.263	ppbv	91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv	98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv #	98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv	99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv	96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 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 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.561	91	996602m	27.151	ppbv	
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

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

Manual Integrations APPROVED

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 203743 9.852 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluoro...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	5315m	6.387	ppbv	
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	125588m	9.538	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48) Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49) Bromoform	9.493	173	152725	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51) 2-Hexanone	7.444	43	228036	9.655	ppbv	98
52) Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53) Toluene	6.943	91	319640	9.329	ppbv	99
54) 1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57) Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58) Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59) m/p-Xylene	9.558	91	676743m	18.377	ppbv	
60) o-Xylene	9.972	91	333107	9.069	ppbv	100
61) Styrene	9.878	104	163167	9.396	ppbv	100
62) Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64) n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65) tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66) Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67) sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69) p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70) n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71) 2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72) 4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79) Naphthalene	13.516	128	383192	9.666	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	100	0.00
2 T	Dichlorodifluoromethane	1.229	1.125	8.5	99	0.00
3	Chlorodifluoromethane	1.693	1.465	13.5	99	0.00
4	Chloromethane	0.487	0.449	7.8	97	0.00
5 T	Vinyl Chloride	0.496	0.429	13.5	98	0.00
6 T	Bromomethane	0.241	0.204	15.4	94	0.00
7	Chloroethane	0.193	0.165	14.5	94	0.00
8 T	Dichlorotetrafluoroethane	1.024	0.955	6.7	100	0.00
9 T	Propene	0.682	0.592	13.2	91	0.00
10 T	Heptane	1.921	1.749	9.0	98	0.00
11 T	Trichlorofluoromethane	1.144	1.085	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	0.883	1.7	105	0.00
13	Ethanol	0.081	0.052	35.8#	89	0.00
14 T	Bromoethene	0.338	0.311	8.0	98	0.00
15 T	Acetone	1.205	0.915	24.1	98	0.00
16 T	1,3-Butadiene	0.571	0.503	11.9	102	0.00
17	tert-Butyl alcohol	1.255	1.206	3.9	97	0.00
18 T	1,1-Dichloroethene	0.416	0.392	5.8	104	0.00
19 T	Isopropyl Alcohol	0.720	0.641	11.0	97	0.00
20 T	Methylene Chloride	0.398	0.336	15.6	102	0.00
21 T	Allyl Chloride	0.850	0.790	7.1	100	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.453	2.6	106	0.00
23 T	Vinyl Acetate	1.628	1.645	-1.0	112	0.00
24 T	1,1-Dichloroethane	0.957	0.900	6.0	99	0.00
25 T	Ethyl Acetate	3.296	3.023	8.3	99	0.00
26 T	Hexane	1.498	1.331	11.1	98	0.00
27 T	Carbon Disulfide	1.150	1.120	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.565	7.1	102	0.00
29 T	Chloroform	1.948	1.764	9.4	100	0.00
30 T	Cyclohexane	1.242	1.142	8.1	99	0.00
31 T	cis-1,2-Dichloroethene	1.370	1.275	6.9	100	0.00
32 T	1,1,1-Trichloroethane	1.990	1.806	9.2	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34 T	2-Butanone	0.713	0.658	7.7	98	0.00
35 T	Carbon Tetrachloride	0.660	0.619	6.2	100	0.00
36 T	Benzene	0.985	0.911	7.5	99	0.00
37 T	1,2-Dichloroethane	0.489	0.468	4.3	102	0.00
38 T	Trichloroethene	0.419	0.382	8.8	99	0.00
39 T	1,2-Dichloropropane	0.364	0.327	10.2	97	0.00
40 T	1,4-Dioxane	0.163	0.152	6.7	98	0.00
41 T	Tetrahydrofuran	0.417	0.389	6.7	98	0.00
42 T	Bromodichloromethane	0.695	0.673	3.2	100	0.00
43	Methyl Methacrylate	0.382	0.360	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	1.684	1.532	9.0	98	0.00
45 T	t-1,3-Dichloropropene	0.437	0.417	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	0.548	0.521	4.9	97	0.00
47 T	1,1,2-Trichloroethane	0.377	0.343	9.0	98	0.00
48 T	Dibromochloromethane	0.603	0.567	6.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	0.521	0.507	2.7	98	0.00
50 T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51 T	2-Hexanone	0.784	0.757	3.4	95	0.00
52 T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53 T	Toluene	1.138	1.062	6.7	98	0.00
54 T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57 T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58 T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59 T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60 T	o-Xylene	1.331	1.207	9.3	98	0.00
61 T	Styrene	0.629	0.591	6.0	97	0.00
62	Isopropylbenzene	1.967	1.780	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64	n-propylbenzene	0.527	0.477	9.5	98	0.00
65	tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66 T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67	sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69	p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70	n-Butylbenzene	2.074	1.867	10.0	98	0.00
71	2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72 T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75 T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76 T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77 T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79 T	Naphthalene	1.437	1.389	3.3	97	0.00
80 T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	100	0.00
2 T	Dichlorodifluoromethane	10.000	9.156	8.4	99	0.00
3	Chlorodifluoromethane	10.000	8.658	13.4	99	0.00
4	Chloromethane	10.000	9.220	7.8	97	0.00
5 T	Vinyl Chloride	10.000	8.650	13.5	98	0.00
6 T	Bromomethane	10.000	8.455	15.4	94	0.00
7	Chloroethane	10.000	8.541	14.6	94	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.325	6.8	100	0.00
9 T	Propene	10.000	8.688	13.1	91	0.00
10 T	Heptane	10.000	9.102	9.0	98	0.00
11 T	Trichlorofluoromethane	10.000	9.484	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.839	1.6	105	0.00
13	Ethanol	10.000	6.387	36.1#	89	0.00
14 T	Bromoethene	10.000	9.215	7.9	98	0.00
15 T	Acetone	10.000	7.596	24.0	98	0.00
16 T	1,3-Butadiene	10.000	8.807	11.9	102	0.00
17	tert-Butyl alcohol	10.000	9.611	3.9	97	0.00
18 T	1,1-Dichloroethene	10.000	9.423	5.8	104	0.00
19 T	Isopropyl Alcohol	10.000	8.899	11.0	97	0.00
20 T	Methylene Chloride	10.000	8.444	15.6	102	0.00
21 T	Allyl Chloride	10.000	9.297	7.0	100	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.742	2.6	106	0.00
23 T	Vinyl Acetate	10.000	10.103	-1.0	112	0.00
24 T	1,1-Dichloroethane	10.000	9.408	5.9	99	0.00
25 T	Ethyl Acetate	10.000	9.171	8.3	99	0.00
26 T	Hexane	10.000	8.889	11.1	98	0.00
27 T	Carbon Disulfide	10.000	9.743	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.302	7.0	102	0.00
29 T	Chloroform	10.000	9.057	9.4	100	0.00
30 T	Cyclohexane	10.000	9.198	8.0	99	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.307	6.9	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.077	9.2	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	98	0.00
34 T	2-Butanone	10.000	9.233	7.7	98	0.00
35 T	Carbon Tetrachloride	10.000	9.374	6.3	100	0.00
36 T	Benzene	10.000	9.253	7.5	99	0.00
37 T	1,2-Dichloroethane	10.000	9.555	4.5	102	0.00
38 T	Trichloroethene	10.000	9.133	8.7	99	0.00
39 T	1,2-Dichloropropane	10.000	8.988	10.1	97	0.00
40 T	1,4-Dioxane	10.000	9.306	6.9	98	0.00
41 T	Tetrahydrofuran	10.000	9.309	6.9	98	0.00
42 T	Bromodichloromethane	10.000	9.676	3.2	100	0.00
43	Methyl Methacrylate	10.000	9.421	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.093	9.1	98	0.00
45 T	t-1,3-Dichloropropene	10.000	9.538	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.505	4.9	97	0.00
47 T	1,1,2-Trichloroethane	10.000	9.088	9.1	98	0.00
48 T	Dibromochloromethane	10.000	9.391	6.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 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	9.742	2.6	98	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.369	6.3	95	0.00
51 T	2-Hexanone	10.000	9.655	3.5	95	0.00
52 T	Tetrachloroethene	10.000	8.925	10.7	97	0.00
53 T	Toluene	10.000	9.329	6.7	98	0.00
54 T	1,2-Dibromoethane	10.000	9.364	6.4	99	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.199	8.0	96	0.00
57 T	Chlorobenzene	10.000	9.054	9.5	98	0.00
58 T	Ethyl Benzene	10.000	9.237	7.6	98	0.00
59 T	m/p-Xylene	20.000	18.377	8.1	98	0.02
60 T	o-Xylene	10.000	9.069	9.3	98	0.00
61 T	Styrene	10.000	9.396	6.0	97	0.00
62	Isopropylbenzene	10.000	9.051	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.749	12.5	99	0.00
64	n-propylbenzene	10.000	9.054	9.5	98	0.00
65	tert-Butylbenzene	10.000	8.758	12.4	96	0.00
66 T	Benzyl Chloride	10.000	9.435	5.6	87	0.00
67	sec-Butylbenzene	10.000	8.781	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.852	1.5	96	0.00
69	p-Isopropyltoluene	10.000	8.844	11.6	96	0.00
70	n-Butylbenzene	10.000	8.998	10.0	98	0.00
71	2-Chlorotoluene	10.000	9.119	8.8	98	0.00
72 T	4-Ethyltoluene	10.000	9.012	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.131	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.842	11.6	97	0.00
75 T	1,3-Dichlorobenzene	10.000	8.886	11.1	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.034	9.7	98	0.00
77 T	1,2-Dichlorobenzene	10.000	8.754	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.977	20.2	98	0.00
79 T	Naphthalene	10.000	9.666	3.3	97	0.00
80 T	Naphthalene,2-methyl-	10.000	10.853	-8.5	95	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.978	10.2	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042588.D
 Acq On : 29 May 2025 16:50
 Operator : SY/MD
 Sample : VL0529ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABL02

Quant Time: May 30 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	102651	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	295997	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	264969	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.386	95	199114	10.025	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

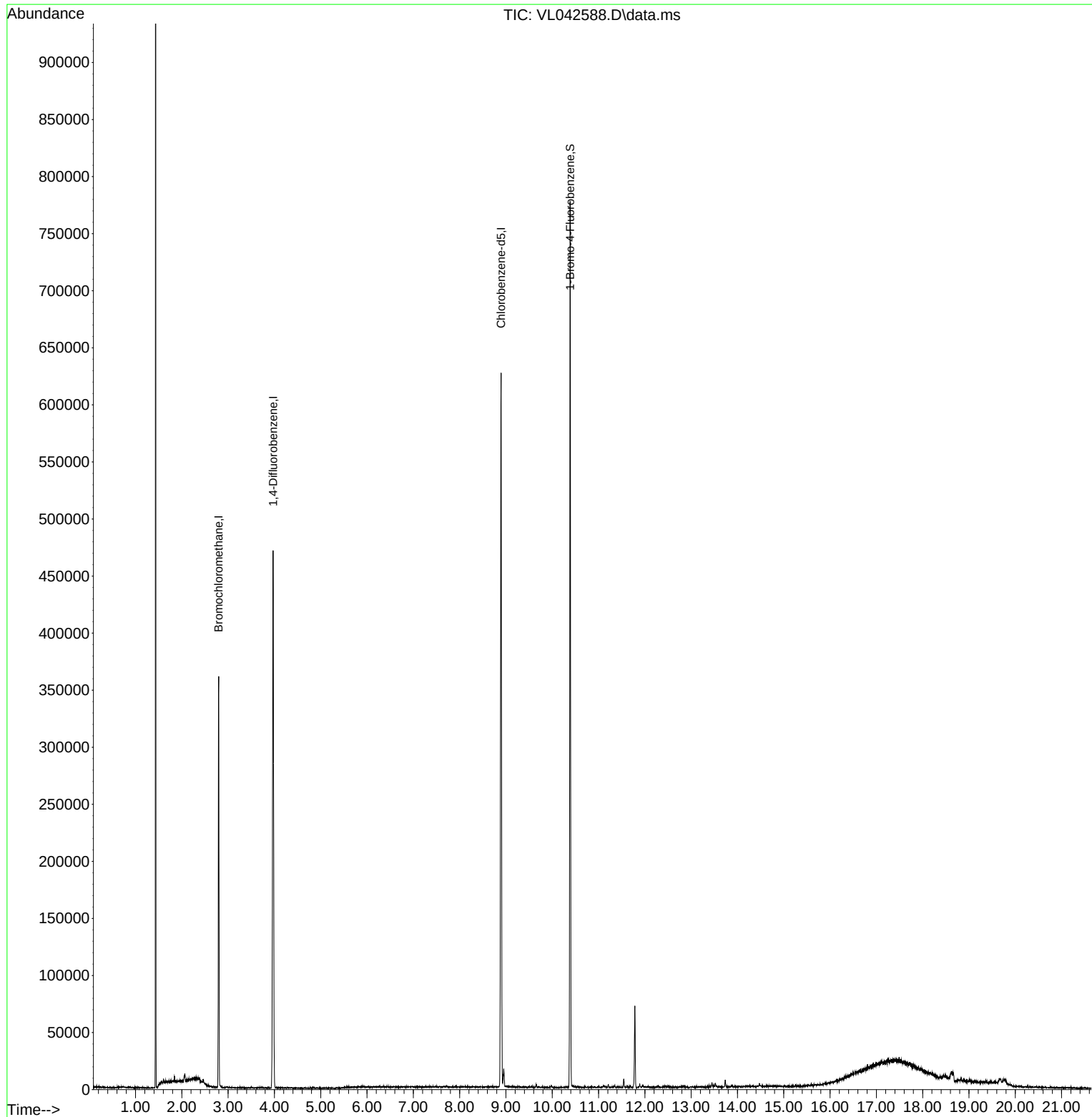
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042588.D
Acq On : 29 May 2025 16:50
Operator : SY/MD
Sample : VL0529ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0529ABL02

Quant Time: May 30 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042591.D
 Acq On : 29 May 2025 18:27
 Operator : SY/MD
 Sample : VL0529ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:11:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	106381	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	304509	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	271830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 207449 10.181 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	119309	9.125	ppbv	96
3) Chlorodifluoromethane	1.479	51	153681	8.535	ppbv	100
4) Chloromethane	1.538	50	46128	8.909	ppbv	100
5) Vinyl Chloride	1.583	62	43153	8.182	ppbv	99
6) Bromomethane	1.670	94	21392	8.333	ppbv	96
7) Chloroethane	1.709	64	17848	8.709	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	96521	8.860	ppbv	98
9) Propene	1.486	41	62215	8.579	ppbv	99
10) Heptane	4.991	43	178704	8.743	ppbv	100
11) Trichlorofluoromethane	1.881	101	118918	9.775	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	92153	9.647	ppbv	97
13) Ethanol	1.725	45	4884	5.651	ppbv	97
14) Bromoethene	1.787	108	32689	9.098	ppbv	98
15) Acetone	1.839	43	96944	7.565	ppbv	97
16) 1,3-Butadiene	1.612	39	51200	8.435	ppbv	96
17) tert-Butyl alcohol	2.046	59	124231	9.306	ppbv	99
18) 1,1-Dichloroethene	2.039	96	41243	9.315	ppbv	97
19) Isopropyl Alcohol	1.890	45	66825	8.724	ppbv	99
20) Methylene Chloride	2.065	84	34577	8.177	ppbv	97
21) Allyl Chloride	2.101	41	83677	9.255	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	46918	9.487	ppbv	96
23) Vinyl Acetate	2.470	43	176545	10.192	ppbv	98
24) 1,1-Dichloroethane	2.415	63	93494	9.188	ppbv	99
25) Ethyl Acetate	2.842	43	309151	8.816	ppbv	99
26) Hexane	2.836	57	136644	8.576	ppbv	99
27) Carbon Disulfide	2.156	76	115247	9.421	ppbv #	92
28) Methyl tert-Butyl Ether	2.447	73	59350	9.179	ppbv	97
29) Chloroform	2.855	83	186648	9.008	ppbv	98
30) Cyclohexane	3.868	84	117225	8.874	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	130230	8.935	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	185446	8.760	ppbv	99
34) 2-Butanone	2.564	43	201605	9.284	ppbv	99
35) Carbon Tetrachloride	3.774	117	185074	9.207	ppbv	99
36) Benzene	3.667	78	272433	9.085	ppbv	99
37) 1,2-Dichloroethane	3.227	62	142338	9.551	ppbv	99
38) Trichloroethene	4.564	130	114177	8.958	ppbv	97
39) 1,2-Dichloropropane	4.324	63	99778	8.998	ppbv	96
40) 1,4-Dioxane	4.600	88	44586	8.985	ppbv #	89
41) Tetrahydrofuran	3.062	42	114785	9.030	ppbv	97
42) Bromodichloromethane	4.502	83	203990	9.637	ppbv	96
43) Methyl Methacrylate	4.894	69	108252	9.301	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	469200	9.148	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	124105	9.319	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042591.D
 Acq On : 29 May 2025 18:27
 Operator : SY/MD
 Sample : VL0529ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0529ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:11:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	154951	9.285	ppbv	97
47) 1,1,2-Trichloroethane	6.600	97	104561	9.109	ppbv	92
48) Dibromochloromethane	7.399	129	172109	9.366	ppbv	100
49) Bromoform	9.497	173	146803	9.258	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	273778	9.089	ppbv	100
51) 2-Hexanone	7.451	43	223716	9.365	ppbv #	98
52) Tetrachloroethene	8.238	164	96938	8.651	ppbv	96
53) Toluene	6.949	91	313414	9.043	ppbv	100
54) 1,2-Dibromoethane	7.665	107	154274	9.080	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	126022	9.220	ppbv	97
57) Chlorobenzene	8.933	112	238351	9.030	ppbv	98
58) Ethyl Benzene	9.367	91	429601	9.317	ppbv	95
59) m/p-Xylene	9.561	91	671824m	18.515	ppbv	
60) o-Xylene	9.976	91	335550	9.272	ppbv	98
61) Styrene	9.882	104	160164	9.360	ppbv	99
62) Isopropylbenzene	10.548	105	494692	9.253	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	206035	8.953	ppbv	99
64) n-propylbenzene	10.998	120	130645	9.116	ppbv	99
65) tert-Butylbenzene	11.539	119	429459	8.852	ppbv	98
66) Benzyl Chloride	11.623	91	55881	8.948	ppbv	99
67) sec-Butylbenzene	11.775	105	610578	8.951	ppbv	99
69) p-Isopropyltoluene	11.934	119	517737	9.064	ppbv	100
70) n-Butylbenzene	12.290	91	517212	9.173	ppbv	98
71) 2-Chlorotoluene	10.911	91	373380	9.156	ppbv	99
72) 4-Ethyltoluene	11.134	105	409747	9.081	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	340820	9.127	ppbv	100
74) 1,2,4-Trimethylbenzene	11.545	105	371004	8.953	ppbv	93
75) 1,3-Dichlorobenzene	11.617	146	237761	9.136	ppbv	98
76) 1,4-Dichlorobenzene	11.681	146	233300	8.989	ppbv	100
77) 1,2-Dichlorobenzene	11.956	146	224628	8.894	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	167082	7.995	ppbv	99
79) Naphthalene	13.520	128	374244	9.581	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	187133	10.604	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	199137	9.132	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042598.D
 Acq On : 29 May 2025 22:18
 Operator : SY/MD
 Sample : QC052725 CAN 10609
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC052725 CAN 10609

Quant Time: May 30 02:15:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	101427	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	282373	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	253475	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	192879	10.151	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%

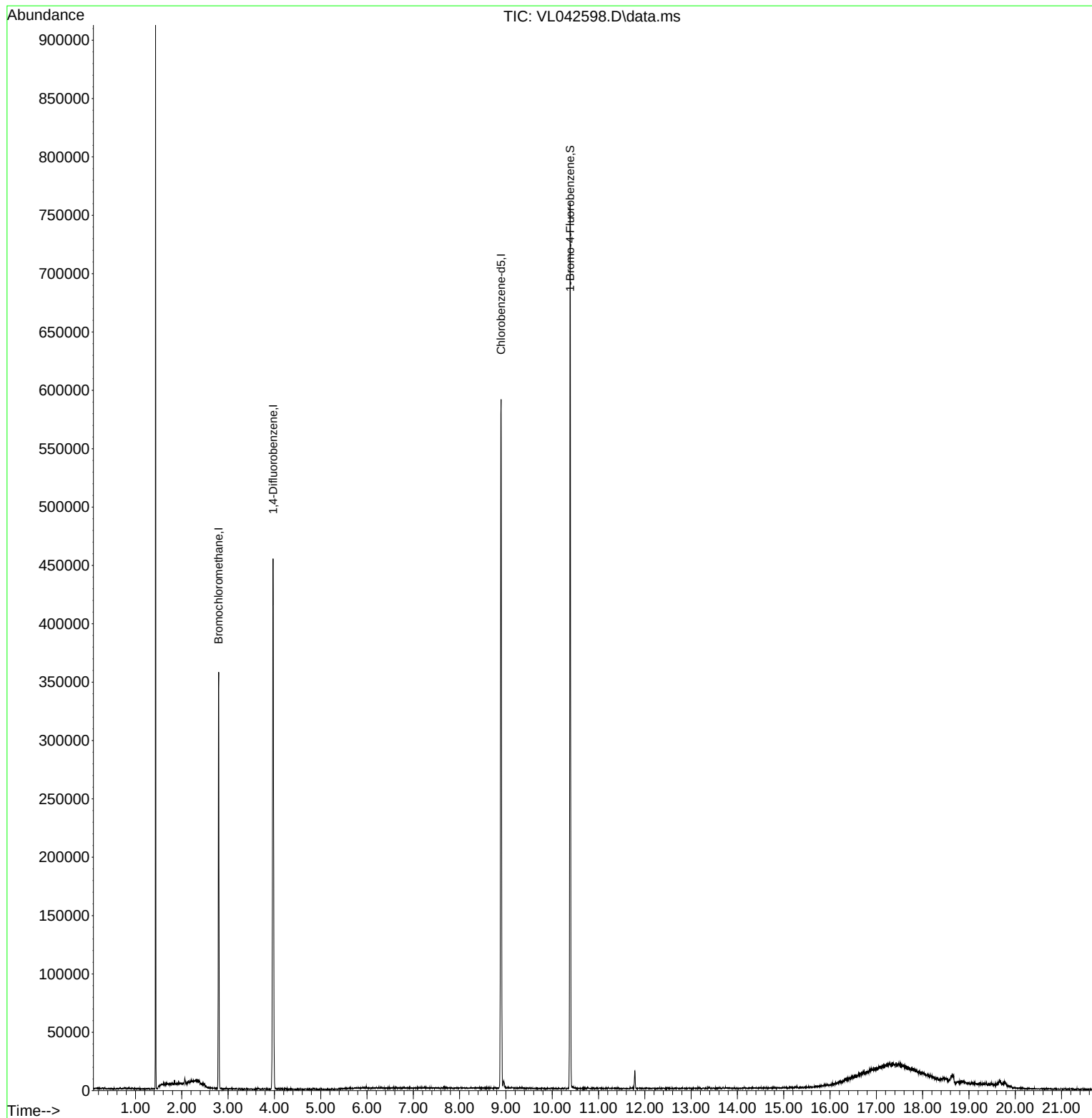
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042598.D
Acq On : 29 May 2025 22:18
Operator : SY/MD
Sample : QC052725 CAN 10609
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC052725 CAN 10609

Quant Time: May 30 02:15:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

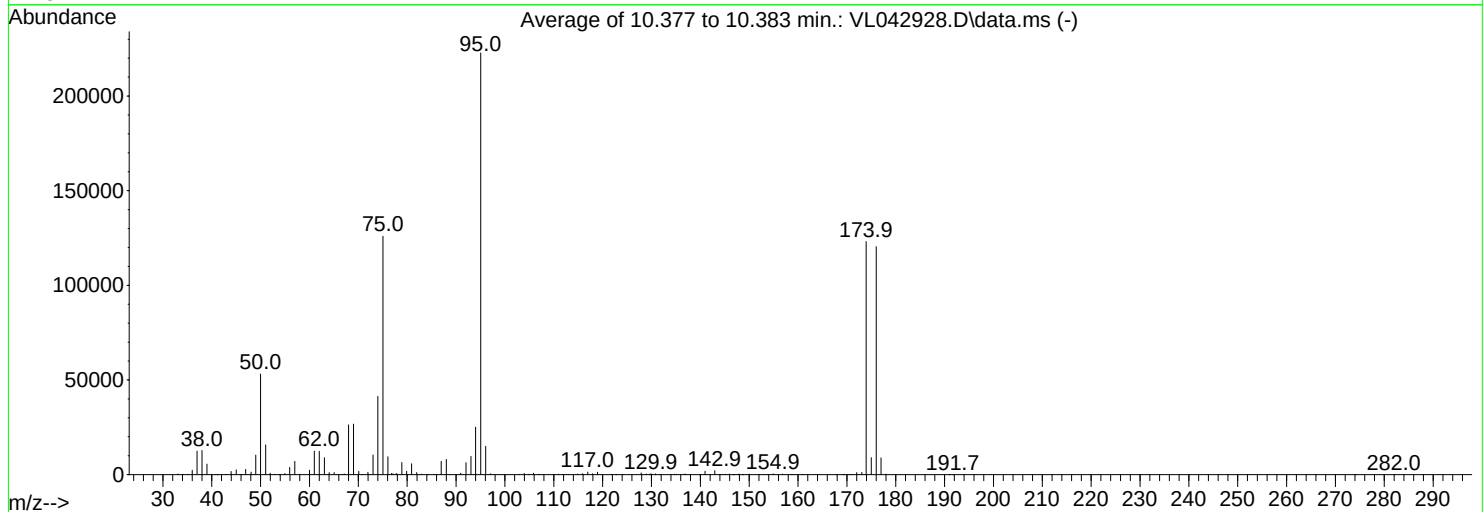
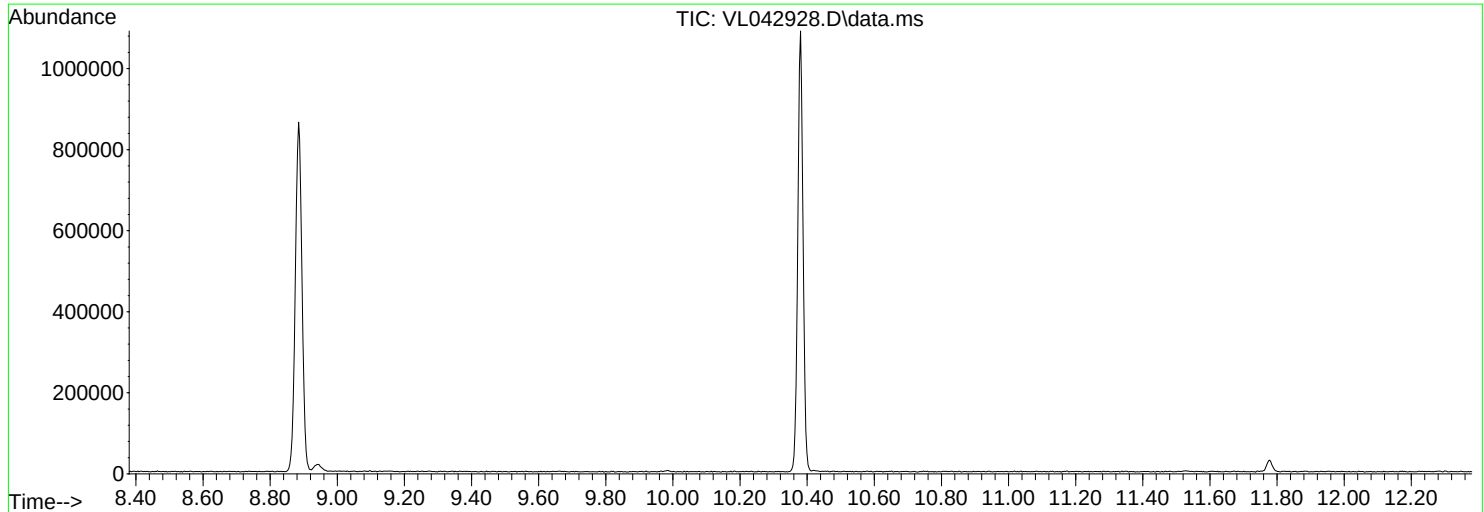


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042928.D
Acq On : 17 Sep 2025 07:51
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Sep 18 02:57:46 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.9	53203	PASS
75	95	30	66	56.5	125915	PASS
95	95	100	100	100.0	222805	PASS
96	95	5	9	6.7	14943	PASS
173	174	0.00	2	1.0	1195	PASS
174	95	50	120	55.3	123173	PASS
175	174	4	9	7.3	8935	PASS
176	174	93	101	97.8	120472	PASS
177	176	5	9	7.4	8875	PASS

Average of 10.377 to 10.383 min.: VL042928.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	326	42.90	188	52.95	173	65.05	1064
33.95	137	43.95	1727	53.80	31	65.80	21
34.15	88	45.00	2549	54.95	589	66.80	12
35.10	59	45.80	90	55.95	3828	67.10	37
36.00	2346	46.10	168	57.00	7043	68.00	26323
37.00	12410	46.95	2763	57.95	238	69.00	26749
38.00	12760	48.05	1394	60.00	2402	70.10	1737
39.00	5584	49.00	10330	61.00	12431	70.85	123
39.90	165	50.00	53203	62.00	12338	71.95	1266
40.80	98	51.05	15701	63.05	8980	73.00	10431
41.10	20	51.95	762	64.05	1139	74.00	41301

Average of 10.377 to 10.383 min.: VL042928.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.05	125915	84.10	22	95.05	222805	111.00	217
76.05	9509	85.65	99	96.05	14943	111.75	132
76.80	719	85.90	73	97.05	389	112.00	71
77.10	426	86.10	164	102.95	155	112.70	78
77.75	572	86.95	7006	103.95	649	113.00	78
78.00	236	88.00	8035	104.95	237	114.90	346
78.90	6414	88.80	51	105.85	789	115.85	555
79.90	1780	90.95	755	106.85	143	116.10	202
80.90	5789	92.05	6365	107.05	106	116.95	1338
81.95	1141	93.05	9636	107.80	98	117.90	540
82.95	222	94.00	25107	109.90	186	118.95	1268

Average of 10.377 to 10.383 min.: VL042928.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.70	61	135.10	136	145.15	167	153.75	130
121.85	152	136.80	239	145.70	106	154.90	447
122.70	20	136.95	255	145.95	347	156.80	341
124.00	44	139.90	52	146.70	25	158.05	49
127.90	905	140.95	1812	147.00	118	158.75	193
128.95	381	141.80	48	147.70	75	159.05	84
129.60	137	142.10	188	147.90	344	160.85	194
129.90	558	142.95	2132	148.70	41	161.10	94
130.85	387	143.90	68	150.00	317	167.80	27
131.70	23	144.10	58	152.15	186	169.30	22
134.70	233	144.60	85	153.00	76	169.95	102

Average of 10.377 to 10.383 min.: VL042928.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.45	87	191.70	42				
170.85	125	274.10	31				
171.20	56	282.00	46				
172.00	1099	287.90	20				
173.05	1195						
173.95	123173						
175.00	8935						
176.00	120472						
177.00	8875						
178.00	218						
190.90	17						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042930.D
 Acq On : 17 Sep 2025 10:48
 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:27:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	164907	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	435071	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	369327	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 288273 9.986 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	46802	1.987	ppbv	95
3) Chlorodifluoromethane	1.476	51	49186	1.983	ppbv	100
4) Chloromethane	1.534	50	17675	1.867	ppbv	99
5) Vinyl Chloride	1.580	62	16393	1.836	ppbv #	86
6) Bromomethane	1.670	94	5883	1.896	ppbv	92
7) Chloroethane	1.706	64	6270	1.906	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	36390	1.947	ppbv	98
9) Propene	1.482	41	18062	1.994	ppbv	99
10) Heptane	4.981	43	44603	1.988	ppbv	99
11) Trichlorofluoromethane	1.877	101	45172	1.941	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	35102	1.931	ppbv	99
13) Ethanol	1.722	45	1853	2.007	ppbv	86
14) Bromoethene	1.780	108	12079	1.865	ppbv	99
15) Acetone	1.835	43	41083	2.028	ppbv	94
16) 1,3-Butadiene	1.609	39	15580	1.839	ppbv	97
17) tert-Butyl alcohol	2.042	59	36744	1.884	ppbv	98
18) 1,1-Dichloroethene	2.036	96	15909	1.999	ppbv	96
19) Isopropyl Alcohol	1.887	45	20335	1.873	ppbv #	1
20) Methylene Chloride	2.062	84	16824	1.908	ppbv	97
21) Allyl Chloride	2.097	41	26855	1.956	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	17418	1.931	ppbv	96
23) Vinyl Acetate	2.463	43	44744	1.901	ppbv	99
24) 1,1-Dichloroethane	2.408	63	34643	1.944	ppbv	97
25) Ethyl Acetate	2.835	43	86728	2.005	ppbv	99
26) Hexane	2.829	57	37751	2.034	ppbv	97
27) Carbon Disulfide	2.152	76	43441	1.897	ppbv #	71
28) Methyl tert-Butyl Ether	2.441	73	18935	1.856	ppbv	97
29) Chloroform	2.848	83	60110	1.981	ppbv	96
30) Cyclohexane	3.855	84	26874m	1.922	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	36341	2.005	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	54810	1.931	ppbv	100
34) 2-Butanone	2.560	43	57314	2.032	ppbv	100
35) Carbon Tetrachloride	3.764	117	55818	1.805	ppbv	99
36) Benzene	3.658	78	73010	1.924	ppbv	95
37) 1,2-Dichloroethane	3.221	62	44529	1.959	ppbv	100
38) Trichloroethene	4.548	130	30836	1.795	ppbv	98
39) 1,2-Dichloropropane	4.311	63	29453m	1.921	ppbv	
40) 1,4-Dioxane	4.599	88	9832m	1.807	ppbv	
41) Tetrahydrofuran	3.059	42	25945	1.871	ppbv	99
42) Bromodichloromethane	4.493	83	62170	1.906	ppbv	94
43) Methyl Methacrylate	4.884	69	23990m	1.885	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	127979	2.022	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	24591	1.836	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042930.D
 Acq On : 17 Sep 2025 10:48
 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:27:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	33947	1.838	ppbv	96
47) 1,1,2-Trichloroethane	6.580	97	30589m	1.956	ppbv	
48) Dibromochloromethane	7.389	129	46665	1.905	ppbv	98
49) Bromoform	9.483	173	36951	1.933	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	63384	1.886	ppbv	99
51) 2-Hexanone	7.441	43	44357	1.793	ppbv #	95
52) Tetrachloroethene	8.228	164	22859m	1.937	ppbv	
53) Toluene	6.939	91	65999m	1.866	ppbv	
54) 1,2-Dibromoethane	7.655	107	38670	1.923	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.927	131	36390	1.934	ppbv	95
57) Chlorobenzene	8.924	112	66303	1.942	ppbv	98
58) Ethyl Benzene	9.357	91	88328	1.856	ppbv	99
59) m/p-Xylene	9.551	91	163157m	4.057	ppbv	
60) o-Xylene	9.966	91	80966	2.025	ppbv	99
61) Styrene	9.875	104	25108	1.690	ppbv	98
62) Isopropylbenzene	10.542	105	113843	1.955	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.962	83	55150	1.910	ppbv	97
64) n-propylbenzene	10.992	120	30484	2.019	ppbv	97
65) tert-Butylbenzene	11.532	119	103228	2.074	ppbv	99
66) Benzyl Chloride	11.616	91	8657	1.872	ppbv	98
67) sec-Butylbenzene	11.769	105	154393	2.039	ppbv	99
69) p-Isopropyltoluene	11.927	119	118634	2.033	ppbv	98
70) n-Butylbenzene	12.283	91	126244	1.872	ppbv	98
71) 2-Chlorotoluene	10.904	91	82459	1.908	ppbv	100
72) 4-Ethyltoluene	11.128	105	92502	1.838	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	79446	2.009	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	98757	2.125	ppbv #	84
75) 1,3-Dichlorobenzene	11.607	146	59236	2.010	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	56252	1.984	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	60057	2.020	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	37895	1.996	ppbv	98
79) Naphthalene	13.513	128	71767	1.785	ppbv	98
80) Naphthalene,2-methyl-	14.461	142	16473	1.745	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	35795	1.886	ppbv	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042931.D
 Acq On : 17 Sep 2025 11:23
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Sep 18 02:28:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 18 02:25:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	158272	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	413841	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	354619	10.000	ppbv	0.00

System Monitoring Compounds
 68) 1-Bromo-4-Fluorobenzene 10.377 95 277264 10.003 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	22884	1.012	ppbv	94
3) Chlorodifluoromethane	1.476	51	24279	1.020	ppbv	100
4) Chloromethane	1.534	50	9850	1.084	ppbv	98
5) Vinyl Chloride	1.583	62	7971	0.930	ppbv #	83
6) Bromomethane	1.670	94	2772	0.931	ppbv #	80
7) Chloroethane	1.706	64	3374	1.069	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	18455	1.029	ppbv	96
9) Propene	1.486	41	8924	1.027	ppbv	98
10) Heptane	4.981	43	19516m	0.906	ppbv	
11) Trichlorofluoromethane	1.877	101	23589	1.056	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.140	101	17971	1.030	ppbv	98
13) Ethanol	1.722	45	926	1.045	ppbv #	50
14) Bromoethene	1.783	108	6547	1.053	ppbv #	96
15) Acetone	1.839	43	21505	1.106	ppbv	95
16) 1,3-Butadiene	1.609	39	8380	1.031	ppbv	93
17) tert-Butyl alcohol	2.042	59	19857	1.061	ppbv	99
18) 1,1-Dichloroethene	2.036	96	7747	1.014	ppbv	95
19) Isopropyl Alcohol	1.887	45	10765	1.033	ppbv #	1
20) Methylene Chloride	2.062	84	9665	1.142	ppbv	95
21) Allyl Chloride	2.097	41	12905	0.979	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	9099	1.051	ppbv	91
23) Vinyl Acetate	2.463	43	20319	0.900	ppbv #	96
24) 1,1-Dichloroethane	2.411	63	17097	1.000	ppbv	98
25) Ethyl Acetate	2.835	43	39603	0.954	ppbv	98
26) Hexane	2.826	57	16236	0.911	ppbv	87
27) Carbon Disulfide	2.152	76	23073	1.050	ppbv #	79
28) Methyl tert-Butyl Ether	2.444	73	9873	1.009	ppbv	91
29) Chloroform	2.848	83	29928	1.028	ppbv	93
30) Cyclohexane	3.861	84	11631m	0.867	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	17192	0.988	ppbv	94
32) 1,1,1-Trichloroethane	3.366	97	26292	0.965	ppbv	99
34) 2-Butanone	2.557	43	25950	0.967	ppbv	99
35) Carbon Tetrachloride	3.761	117	28194	0.958	ppbv	91
36) Benzene	3.654	78	34301	0.950	ppbv	95
37) 1,2-Dichloroethane	3.217	62	21496	0.994	ppbv	100
38) Trichloroethene	4.551	130	14609	0.894	ppbv	98
39) 1,2-Dichloropropane	4.318	63	14533m	0.996	ppbv	
40) 1,4-Dioxane	4.599	88	5054m	0.977	ppbv	
41) Tetrahydrofuran	3.062	42	10997	0.834	ppbv	98
42) Bromodichloromethane	4.493	83	30707	0.990	ppbv	99
43) Methyl Methacrylate	4.887	69	10283m	0.849	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	53804	0.894	ppbv	92
45) t-1,3-Dichloropropene	6.415	75	11328m	0.889	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042931.D
 Acq On : 17 Sep 2025 11:23
 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:28:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

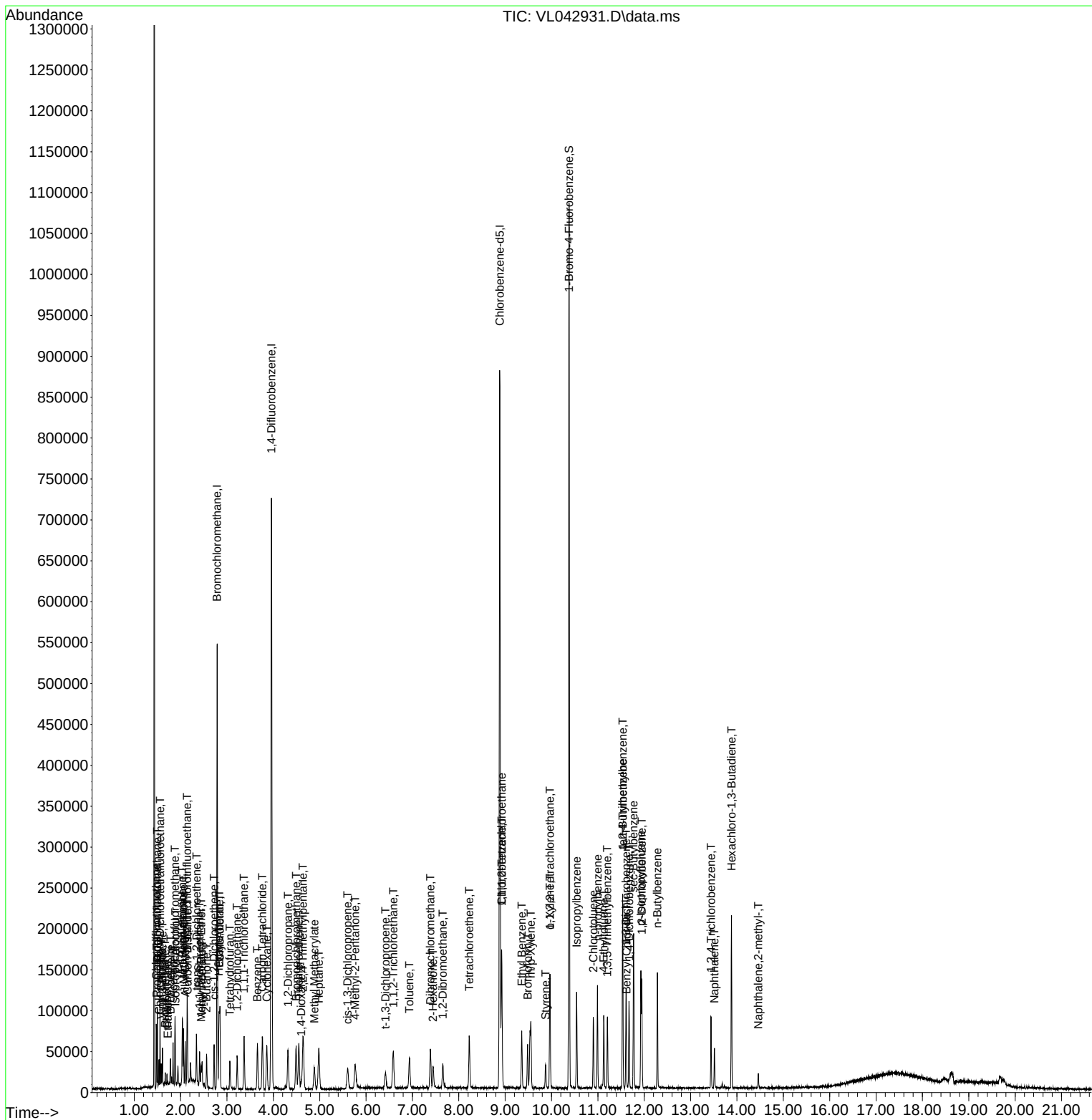
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	15914m	0.906	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	14628m	0.983	ppbv	
48) Dibromochloromethane	7.386	129	23257	0.998	ppbv	98
49) Bromoform	9.487	173	16990	0.934	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	27486m	0.860	ppbv	
51) 2-Hexanone	7.441	43	18604m	0.791	ppbv	
52) Tetrachloroethene	8.224	164	10494	0.935	ppbv	92
53) Toluene	6.933	91	27724m	0.824	ppbv	
54) 1,2-Dibromoethane	7.655	107	18521	0.968	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.927	131	18170	1.006	ppbv #	1
57) Chlorobenzene	8.924	112	31407	0.958	ppbv	95
58) Ethyl Benzene	9.357	91	36048	0.789	ppbv	94
59) m/p-Xylene	9.551	91	62681m	1.623	ppbv	
60) o-Xylene	9.966	91	29945	0.780	ppbv	98
61) Styrene	9.872	104	10595	1.046	ppbv	97
62) Isopropylbenzene	10.542	105	46332	0.829	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	25646	0.925	ppbv	98
64) n-propylbenzene	10.992	120	12151	0.838	ppbv	97
65) tert-Butylbenzene	11.535	119	39439	0.825	ppbv	96
66) Benzyl Chloride	11.616	91	3848	0.867	ppbv	94
67) sec-Butylbenzene	11.769	105	63758	0.877	ppbv	98
69) p-Isopropyltoluene	11.927	119	45477	0.812	ppbv	97
70) n-Butylbenzene	12.283	91	46106	0.899	ppbv	95
71) 2-Chlorotoluene	10.901	91	33505	0.808	ppbv	99
72) 4-Ethyltoluene	11.124	105	34655	0.937	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.202	105	30778	0.810	ppbv	90
74) 1,2,4-Trimethylbenzene	11.535	105	38075	0.853	ppbv	96
75) 1,3-Dichlorobenzene	11.607	146	25315	0.895	ppbv	95
76) 1,4-Dichlorobenzene	11.675	146	23918	0.879	ppbv	97
77) 1,2-Dichlorobenzene	11.947	146	27862	0.976	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	17581	0.964	ppbv	98
79) Naphthalene	13.513	128	21593	0.809	ppbv	95
80) Naphthalene,2-methyl-	14.461	142	5523	1.103	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	12986	0.977	ppbv	96

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

Manual Integrations APPROVED

Quant Time: Sep 18 02:28:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042932.D
 Acq On : 17 Sep 2025 11:58
 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 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:29:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	156392	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	401247	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338744	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 263700 9.959 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11457	0.513	ppbv	99
3) Chlorodifluoromethane	1.476	51	12168	0.517	ppbv	100
4) Chloromethane	1.534	50	4596	0.512	ppbv #	84
5) Vinyl Chloride	1.580	62	4260	0.503	ppbv	90
6) Bromomethane	1.667	94	1694	0.576	ppbv #	79
7) Chloroethane	1.703	64	1499	0.481	ppbv	91
8) Dichlorotetrafluoroethane	1.554	85	9022	0.509	ppbv	91
9) Propene	1.483	41	4027	0.469	ppbv	90
10) Heptane	4.981	43	7851m	0.369	ppbv	
11) Trichlorofluoromethane	1.877	101	10951	0.496	ppbv	86
12) 1,1,2-Trichlorotrifluo...	2.140	101	8872	0.515	ppbv	100
13) Ethanol	1.722	45	545m	0.622	ppbv	
14) Bromoethene	1.780	108	3180	0.518	ppbv	97
15) Acetone	1.835	43	11107	0.578	ppbv	97
16) 1,3-Butadiene	1.609	39	4527	0.563	ppbv	98
17) tert-Butyl alcohol	2.042	59	9574	0.518	ppbv	100
18) 1,1-Dichloroethene	2.033	96	3704	0.491	ppbv	97
19) Isopropyl Alcohol	1.887	45	5637	0.547	ppbv #	97
20) Methylene Chloride	2.062	84	5602	0.670	ppbv #	89
21) Allyl Chloride	2.094	41	6908	0.531	ppbv	91
22) trans-1,2-Dichloroethene	2.340	96	4297	0.502	ppbv	89
23) Vinyl Acetate	2.463	43	10743	0.481	ppbv #	94
24) 1,1-Dichloroethane	2.408	63	8640	0.511	ppbv	98
25) Ethyl Acetate	2.839	43	18457	0.450	ppbv	97
26) Hexane	2.826	57	7346	0.417	ppbv #	83
27) Carbon Disulfide	2.149	76	11231	0.517	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	5027	0.520	ppbv	96
29) Chloroform	2.845	83	14102	0.490	ppbv	94
30) Cyclohexane	3.852	84	4888m	0.369	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	7566	0.440	ppbv #	87
32) 1,1,1-Trichloroethane	3.366	97	13029	0.484	ppbv	95
34) 2-Butanone	2.560	43	11954	0.460	ppbv	91
35) Carbon Tetrachloride	3.755	117	13842m	0.485	ppbv	
36) Benzene	3.654	78	16361	0.467	ppbv #	86
37) 1,2-Dichloroethane	3.217	62	10620	0.507	ppbv	97
38) Trichloroethene	4.548	130	7478m	0.472	ppbv	
39) 1,2-Dichloropropane	4.308	63	7185	0.508	ppbv #	81
40) 1,4-Dioxane	4.606	88	1992m	0.397	ppbv	
41) Tetrahydrofuran	3.059	42	5821m	0.455	ppbv	
42) Bromodichloromethane	4.489	83	15717m	0.522	ppbv	
43) Methyl Methacrylate	4.881	69	4550m	0.388	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	23481m	0.402	ppbv	
45) t-1,3-Dichloropropene	6.415	75	5044m	0.408	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042932.D
 Acq On : 17 Sep 2025 11:58
 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:29:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	7341m	0.431	ppbv	
47) 1,1,2-Trichloroethane	6.583	97	7061m	0.490	ppbv	
48) Dibromochloromethane	7.380	129	10997m	0.487	ppbv	
49) Bromoform	9.484	173	8614	0.489	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	11932m	0.385	ppbv	
51) 2-Hexanone	7.444	43	8494m	0.372	ppbv	
52) Tetrachloroethene	8.234	164	5126m	0.471	ppbv	
53) Toluene	6.933	91	11993	0.368	ppbv	98
54) 1,2-Dibromoethane	7.658	107	8754m	0.472	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.927	131	8760m	0.507	ppbv	
57) Chlorobenzene	8.924	112	16080	0.514	ppbv #	92
58) Ethyl Benzene	9.354	91	15958	0.366	ppbv	91
59) m/p-Xylene	9.539	91	24990m	0.678	ppbv	
60) o-Xylene	9.963	91	12302	0.336	ppbv	100
61) Styrene	9.869	104	4154	0.748	ppbv	93
62) Isopropylbenzene	10.539	105	19343	0.362	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.959	83	12366m	0.467	ppbv	
64) n-propylbenzene	10.989	120	4697	0.339	ppbv	90
65) tert-Butylbenzene	11.529	119	13853	0.304	ppbv	91
66) Benzyl Chloride	11.613	91	1547	0.365	ppbv	95
67) sec-Butylbenzene	11.769	105	23691	0.341	ppbv	98
69) p-Isopropyltoluene	11.924	119	16694	0.312	ppbv	95
70) n-Butylbenzene	12.280	91	16636	0.527	ppbv	91
71) 2-Chlorotoluene	10.898	91	14134	0.357	ppbv	98
72) 4-Ethyltoluene	11.124	105	13199	0.591	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	11354	0.313	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	13232	0.310	ppbv #	79
75) 1,3-Dichlorobenzene	11.607	146	11911	0.441	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	10649	0.410	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	11678	0.428	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	9035	0.519	ppbv	97
79) Naphthalene	13.513	128	7418	0.523	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	2905	0.949	ppbv	96
81) 1,2,4-Trichlorobenzene	13.439	180	4520	0.626	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042933.D
 Acq On : 17 Sep 2025 12:32
 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:30:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 18 02:25:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	155710	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390094	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	326535	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	245820	9.631	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	912	0.108	ppbv	92
32) 1,1,1-Trichloroethane	3.376	97	2351m	0.088	ppbv	
35) Carbon Tetrachloride	3.765	117	2804m	0.101	ppbv	
38) Trichloroethene	4.548	130	1467m	0.095	ppbv	
52) Tetrachloroethene	8.225	164	875m	0.083	ppbv	
54) 1,2-Dibromoethane	7.661	107	1690m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	2442m	0.096	ppbv	
79) Naphthalene	13.520	128	1286m	0.391	ppbv	

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

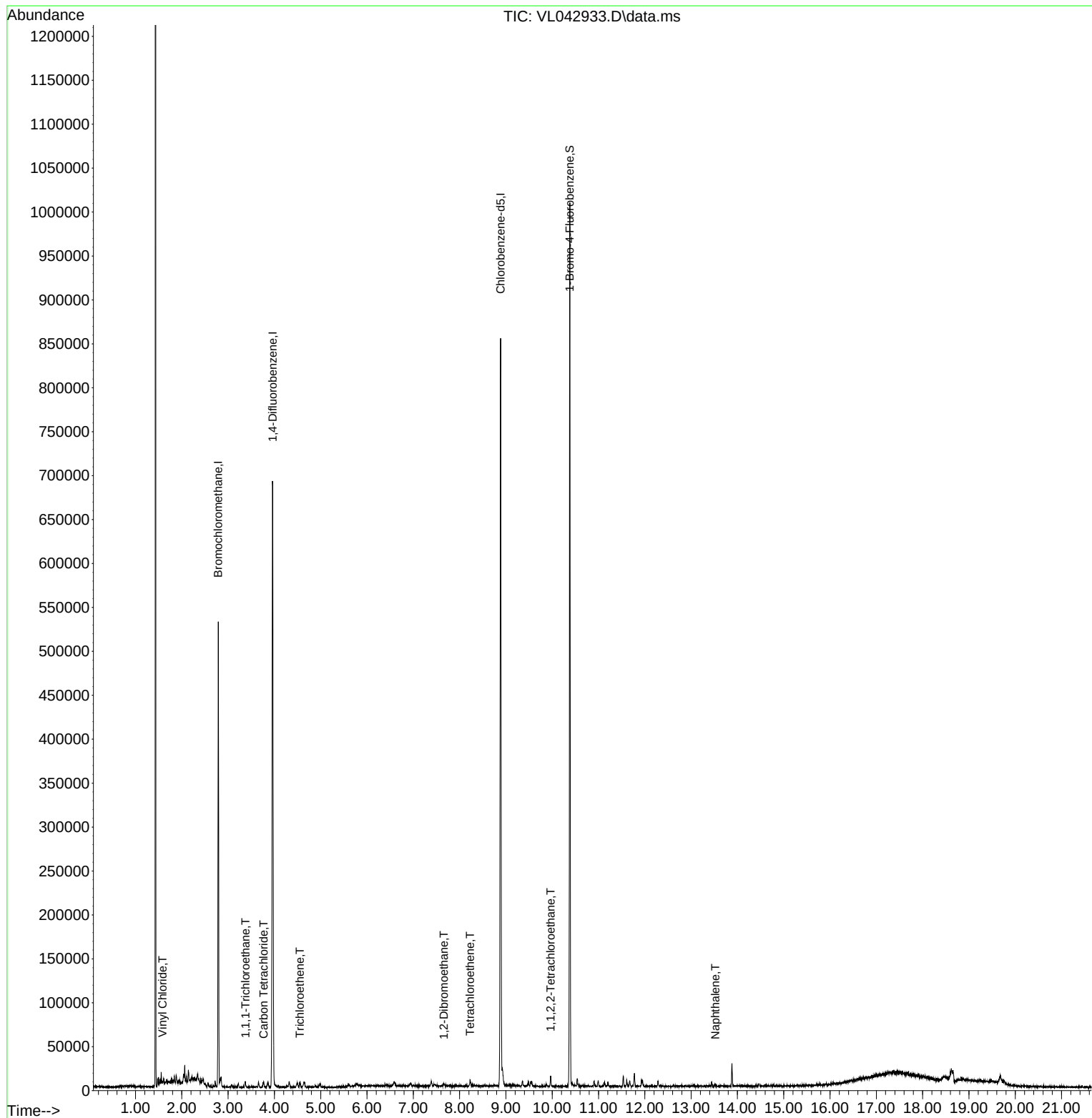
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Data File : VL042933.D
Acq On : 17 Sep 2025 12:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: Sep 18 02:30:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
Supervised By : Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042934.D
 Acq On : 17 Sep 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:31:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 18 02:25:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	151993	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	373216	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	318402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	236647	9.509	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	305	0.037	ppbv	93
32) 1,1,1-Trichloroethane	3.376	97	970m	0.037	ppbv	
35) Carbon Tetrachloride	3.771	117	993m	0.037	ppbv	
38) Trichloroethene	4.551	130	563m	0.038	ppbv	
52) Tetrachloroethene	8.221	164	366m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	927m	0.037	ppbv	

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

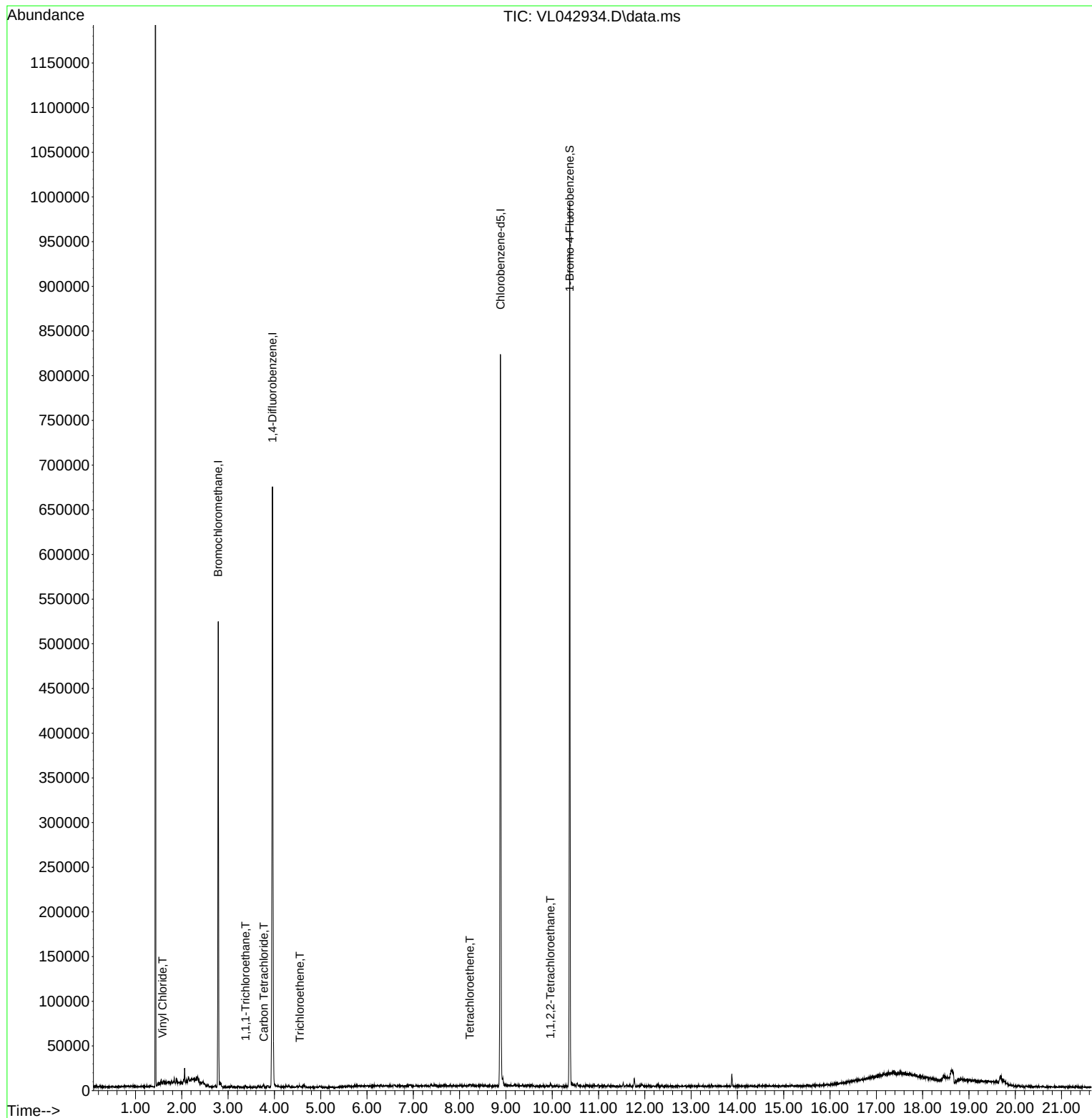
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042934.D
Acq On : 17 Sep 2025 13:07
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Sep 18 02:31:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
Supervised By : Mahesh Dadoda 09/18/2025



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

Method File : VL091725AIR.M

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

Last Update : Thu Sep 18 02:57:46 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042934.D 0.1 =VL042933.D 0.5 =VL042932.D 1 =VL042931.D 2 =VL042930.D 10 =VL042935.D 15 =VL042936.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

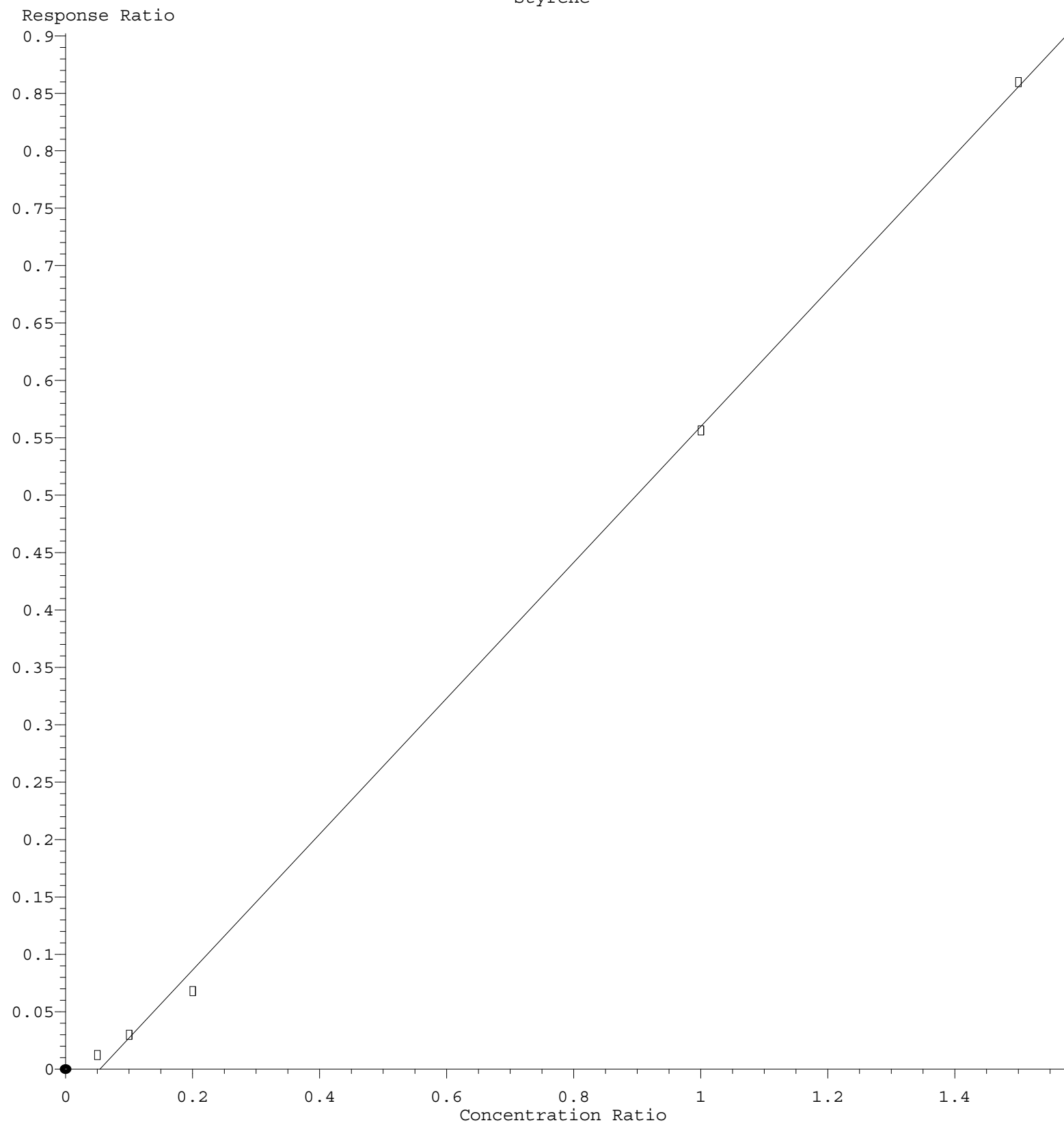
1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.465	1.446	1.419	1.445	1.366	1.428	2.68
3) Chlorodifluoro...			1.556	1.534	1.491	1.484	1.454	1.504	2.71
4) Chloromethane			0.588	0.622	0.536	0.574	0.550	0.574	5.88
5) T Vinyl Chloride	0.669	0.586	0.545	0.504	0.497	0.500	0.491	0.542	12.13
6) T Bromomethane			0.217	0.175	0.178	0.190	0.181	0.188	8.96
7) Chloroethane			0.192	0.213	0.190	0.201	0.201	0.199	4.63
8) T Dichlorotetra...			1.154	1.166	1.103	1.143	1.100	1.133	2.65
9) T Propene			0.515	0.564	0.548	0.538	0.581	0.549	4.59
10) T Heptane			1.004	1.233	1.352	1.616	1.599	1.361	18.93
11) T Trichlorofluor...			1.400	1.490	1.370	1.429	1.366	1.411	3.63
12) T 1,1,2-Trichlor...			1.135	1.135	1.064	1.113	1.064	1.102	3.26
13) Ethanol			0.070	0.059	0.056	0.048	0.048	0.056	16.18
14) T Bromoethene			0.407	0.414	0.366	0.391	0.386	0.393	4.73
15) T Acetone			1.420	1.359	1.246	1.072	1.045	1.228	13.65
16) T 1,3-Butadiene			0.579	0.529	0.472	0.494	0.494	0.514	8.13
17) tert-Butyl alc...			1.224	1.255	1.114	1.170	1.151	1.183	4.78
18) T 1,1-Dichloroet...			0.474	0.489	0.482	0.488	0.479	0.483	1.33
19) T Isopropyl Alcohol			0.721	0.680	0.617	0.644	0.631	0.659	6.40
20) T Methylene Chlo...			0.716	0.611	0.510	0.421	0.415	0.535	24.11
21) T Allyl Chloride			0.883	0.815	0.814	0.826	0.824	0.833	3.47
22) T trans-1,2-Dich...			0.550	0.575	0.528	0.549	0.533	0.547	3.34
23) T Vinyl Acetate			1.374	1.284	1.357	1.484	1.638	1.427	9.65
24) T 1,1-Dichloroet...			1.105	1.080	1.050	1.099	1.067	1.080	2.08
25) T Ethyl Acetate			2.360	2.502	2.630	2.836	2.786	2.623	7.52
26) T Hexane			0.939	1.026	1.145	1.242	1.276	1.126	12.66
27) T Carbon Disulfide			1.436	1.458	1.317	1.375	1.355	1.388	4.18
28) T Methyl tert-Bu...			0.643	0.624	0.574	0.617	0.634	0.619	4.31
29) T Chloroform			1.803	1.891	1.823	1.865	1.817	1.840	1.99
30) T Cyclohexane			0.625	0.735	0.815	1.011	1.054	0.848	21.47
31) T cis-1,2-Dichlo...			0.968	1.086	1.102	1.149	1.190	1.099	7.64
32) T 1,1,1-Trichlor...	2.127	1.510	1.666	1.661	1.662	1.709	1.715	1.721	11.12

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.596	0.627	0.659	0.674	0.685	0.648	5.65
35) T Carbon Tetrach...	0.887	0.719	0.690	0.681	0.641	0.691	0.666	0.711	11.42
36) T Benzene			0.816	0.829	0.839	0.924	0.954	0.872	7.16
37) T 1,2-Dichloroet...			0.529	0.519	0.512	0.527	0.524	0.522	1.34
38) T Trichloroethene	0.503	0.376	0.373	0.353	0.354	0.402	0.403	0.395	13.08
39) T 1,2-Dichloropr...			0.358	0.351	0.338	0.357	0.357	0.353	2.37

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL091725AIR.M										
40) T	1,4-Dioxane			0.099	0.122	0.113	0.147	0.144	0.125	16.30
41) T	Tetrahydrofuran			0.290	0.266	0.298	0.363	0.387	0.321	16.10
42) T	Bromodichlorom...			0.783	0.742	0.714	0.762	0.746	0.750	3.40
43) T	Methyl Methacr...			0.227	0.248	0.276	0.345	0.364	0.292	20.57
44) T	2,2,4-Trimethy...			1.170	1.300	1.471	1.687	1.646	1.455	15.20
45) T	t-1,3-Dichloro...			0.251	0.274	0.283	0.352	0.380	0.308	17.89
46) T	cis-1,3-Dichlo...			0.366	0.385	0.390	0.474	0.508	0.425	14.72
47) T	1,1,2-Trichlor...			0.352	0.353	0.352	0.376	0.365	0.359	2.94
48) T	Dibromochlorom...			0.548	0.562	0.536	0.588	0.580	0.563	3.84
49) T	Bromoform			0.429	0.411	0.425	0.472	0.460	0.439	5.87
50) T	4-Methyl-2-Pen...			0.595	0.664	0.728	0.933	0.955	0.775	20.83
51) T	2-Hexanone			0.423	0.450	0.510	0.740	0.755	0.576	27.84
52) T	Tetrachloroethene	0.327	0.224	0.256	0.254	0.263	0.279	0.281	0.269	11.80
53) T	Toluene			0.598	0.670	0.758	1.001	1.040	0.813	24.32
54) T	1,2-Dibromoethane	0.433		0.436	0.448	0.444	0.508	0.505	0.462	7.47
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.517	0.512	0.493	0.527	0.498	0.509	2.78
57) T	Chlorobenzene			0.949	0.886	0.898	0.970	0.919	0.924	3.79
58) T	Ethyl Benzene			0.942	1.017	1.196	1.650	1.637	1.288	26.17
59) T	m/p-Xylene			0.738	0.884	1.104	1.392	1.325	1.089	25.72
60) T	o-Xylene			0.726	0.844	1.096	1.402	1.343	1.082	27.48
61) T	Styrene			0.245	0.299	0.340	0.556	0.573	0.403	37.70
62) T	Isopropylbenzene			1.142	1.307	1.541	2.003	1.891	1.577	23.38
63) T	1,1,2,2-Tetrac...	0.970	0.748	0.730	0.723	0.747	0.803	0.752	0.782	11.13
64) T	n-propylbenzene			0.277	0.343	0.413	0.517	0.494	0.409	24.68
65) T	tert-Butylbenzene			0.818	1.112	1.398	1.753	1.656	1.347	28.70
66) T	Benzyl Chloride			0.091	0.109	0.117	0.150	0.159	0.125	22.74
67) T	sec-Butylbenzene			1.399	1.798	2.090	2.561	2.401	2.050	22.80
68) S	1-Bromo-4-Fluo...	0.743	0.753	0.778	0.782	0.781	0.837	0.797	0.782	3.93
69) T	p-Isopropyltol...			0.986	1.282	1.606	2.067	1.958	1.580	28.70
70) T	n-Butylbenzene			0.982	1.300	1.709	2.228	2.085	1.661	31.50
71) T	2-Chlorotoluene			0.834	0.945	1.116	1.503	1.451	1.170	25.50
72) T	4-Ethyltoluene			0.779	0.977	1.252	1.691	1.633	1.267	31.48
73) T	1,3,5-Trimethy...			0.670	0.868	1.076	1.398	1.343	1.071	28.88
74) T	1,2,4-Trimethy...			0.781	1.074	1.337	1.603	1.498	1.258	26.47
75) T	1,3-Dichlorobe...			0.703	0.714	0.802	0.904	0.867	0.798	11.20
76) T	1,4-Dichlorobe...			0.629	0.674	0.762	0.913	0.860	0.768	15.65
77) T	1,2-Dichlorobe...			0.689	0.786	0.813	0.897	0.839	0.805	9.52
78) T	Hexachloro-1,3...			0.533	0.496	0.513	0.524	0.504	0.514	2.95
79) T	Naphthalene	0.394		0.438	0.609	0.972	1.344	1.338	0.849	50.88
80) T	Naphthalene,2-...			0.172	0.156	0.223	0.376	0.449	0.275	47.42
81) T	1,2,4-Trichlor...			0.267	0.366	0.485	0.635	0.645	0.479	34.52

(#) = Out of Range

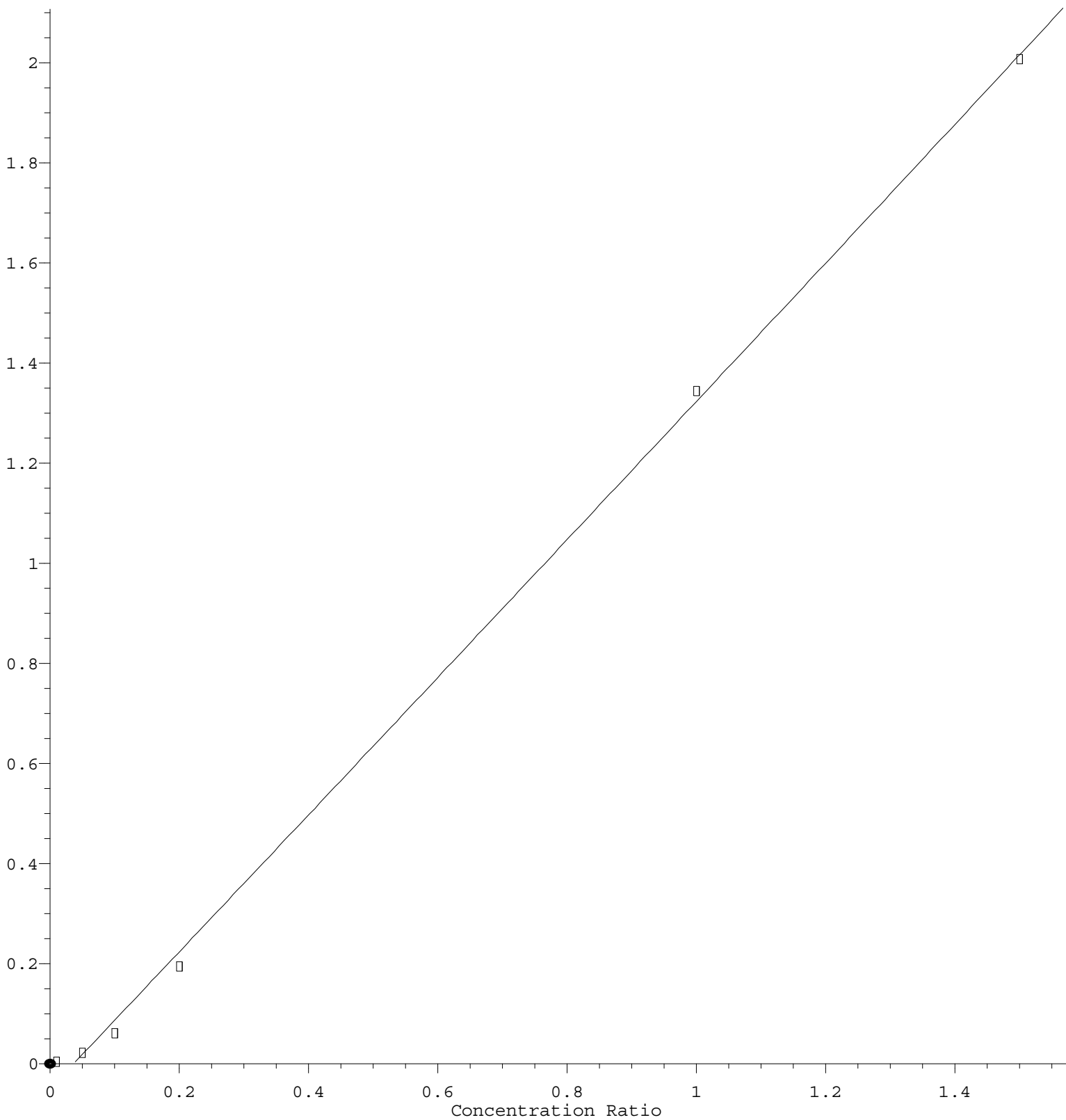
Styrene



$\text{Response} = 5.919\text{e-}001 * \text{Amt} - 3.215\text{e-}002$
 Coef of Det (r^2) = 0.998999 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL091725AIR.M
 Calibration Table Last Updated: Thu Sep 18 02:57:46 2025

Naphthalene

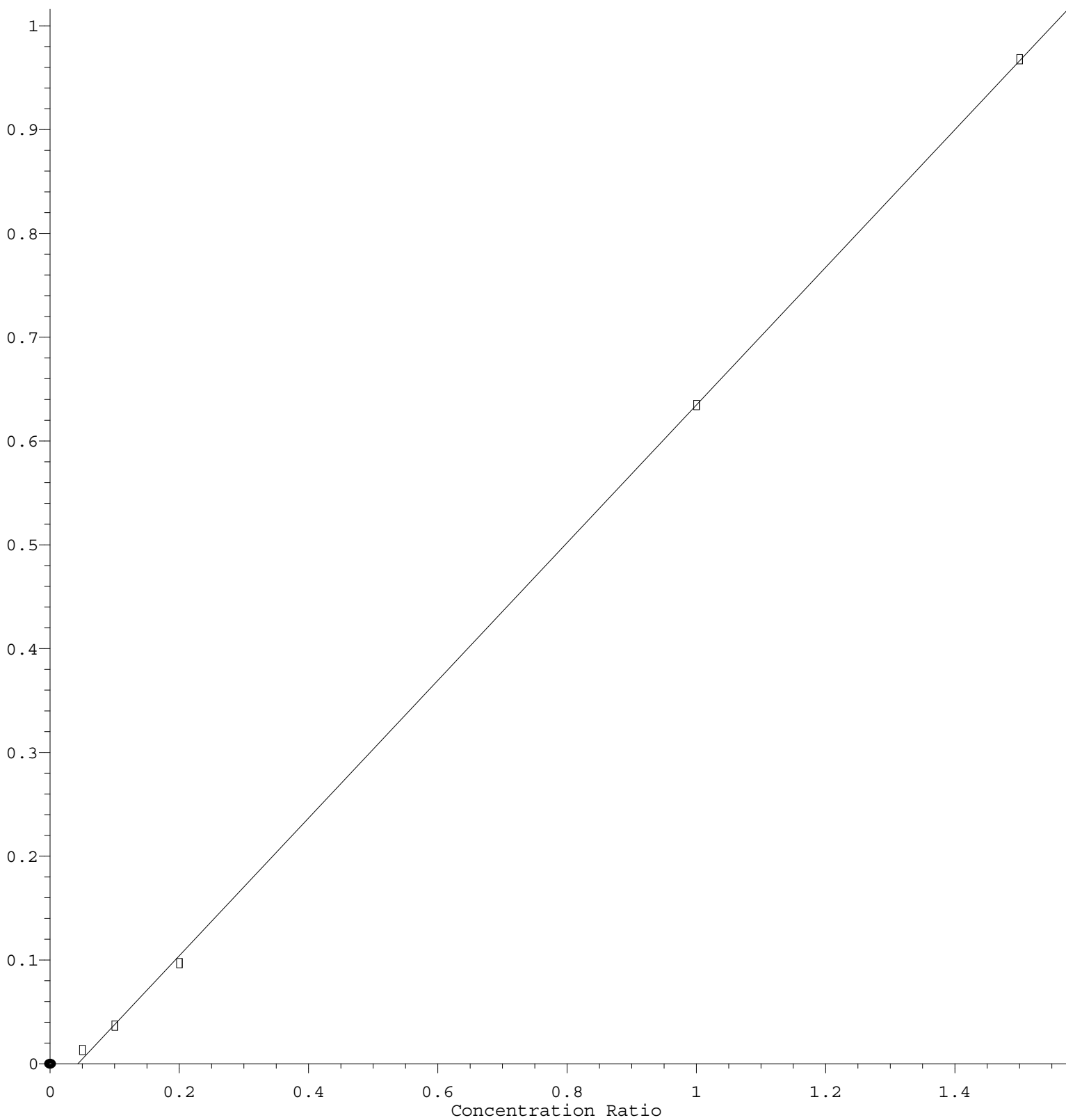
Response Ratio



$R = 8.404e-003 A^2 + 1.364e+000 A - 4.958e-002$
 Coef of Det (r^2) = 0.999008 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL091725AIR.M
 Calibration Table Last Updated: Thu Sep 18 02:57:46 2025

1,2,4-Trichlorobenzene

Response Ratio



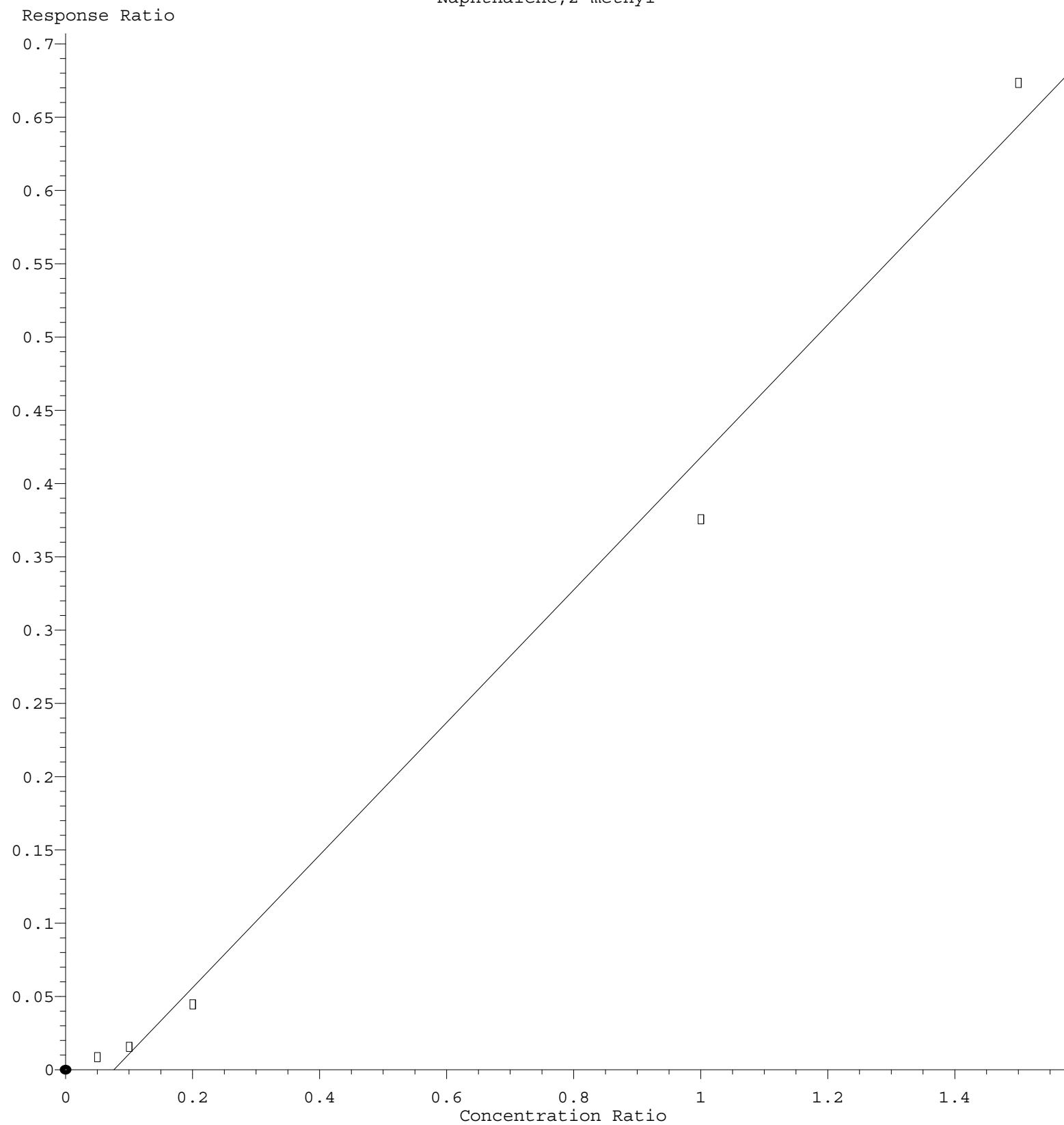
$$\text{Response} = 6.632\text{e-}001 * \text{Amt} - 2.819\text{e-}002$$

Coef of Det (r^2) = 0.999823 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL091725AIR.M

Calibration Table Last Updated: Thu Sep 18 02:57:46 2025

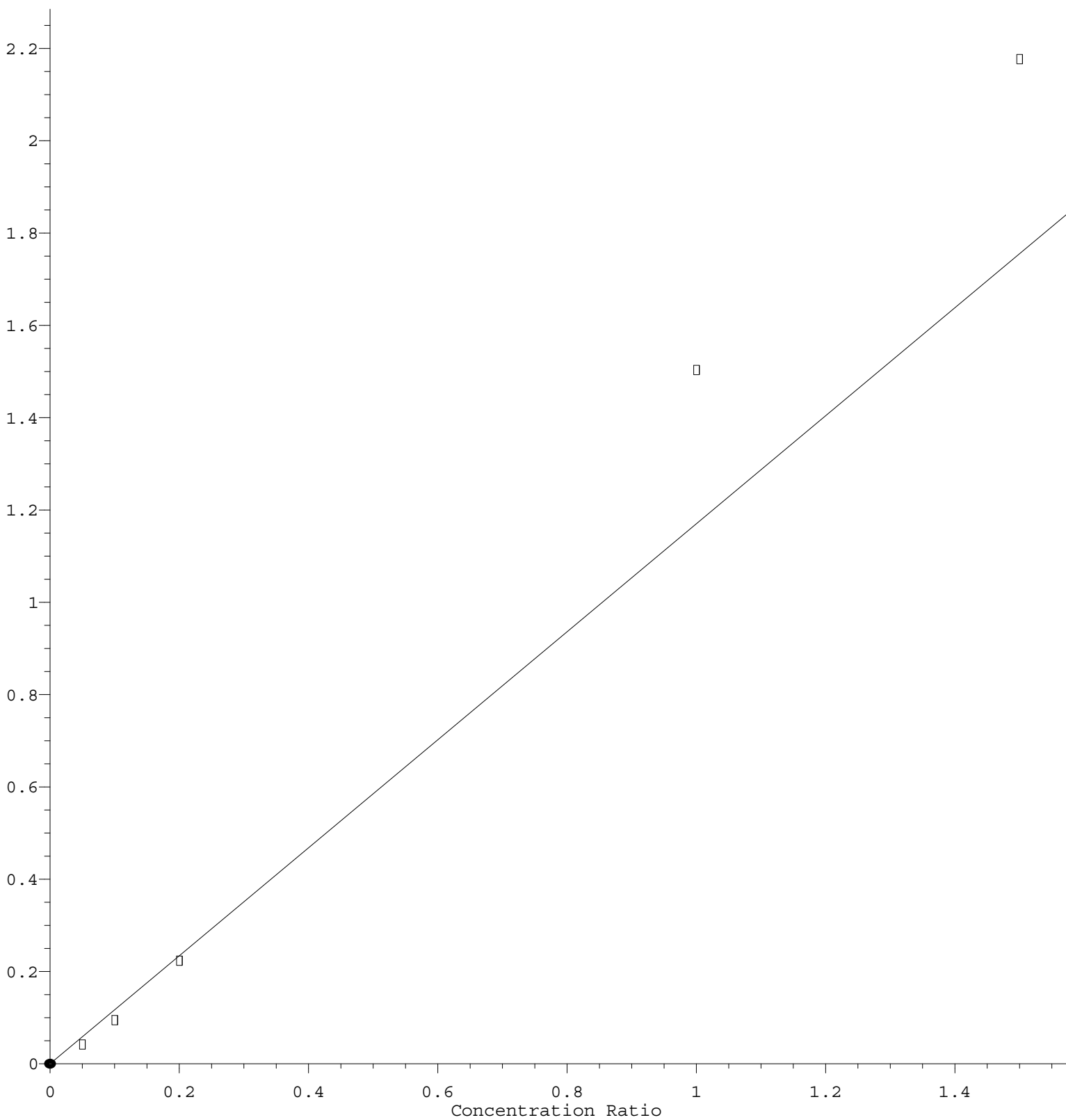
Naphthalene, 2-methyl-



$\text{Response} = 4.526\text{e-}001 * \text{Amt} - 3.443\text{e-}002$
 Coef of Det (r^2) = 0.990741 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL091725AIR.M
 Calibration Table Last Updated: Thu Sep 18 02:57:46 2025

2-Chlorotoluene

Response Ratio



$$\text{Response} = 1.170\text{e}+000 * \text{Amt}$$

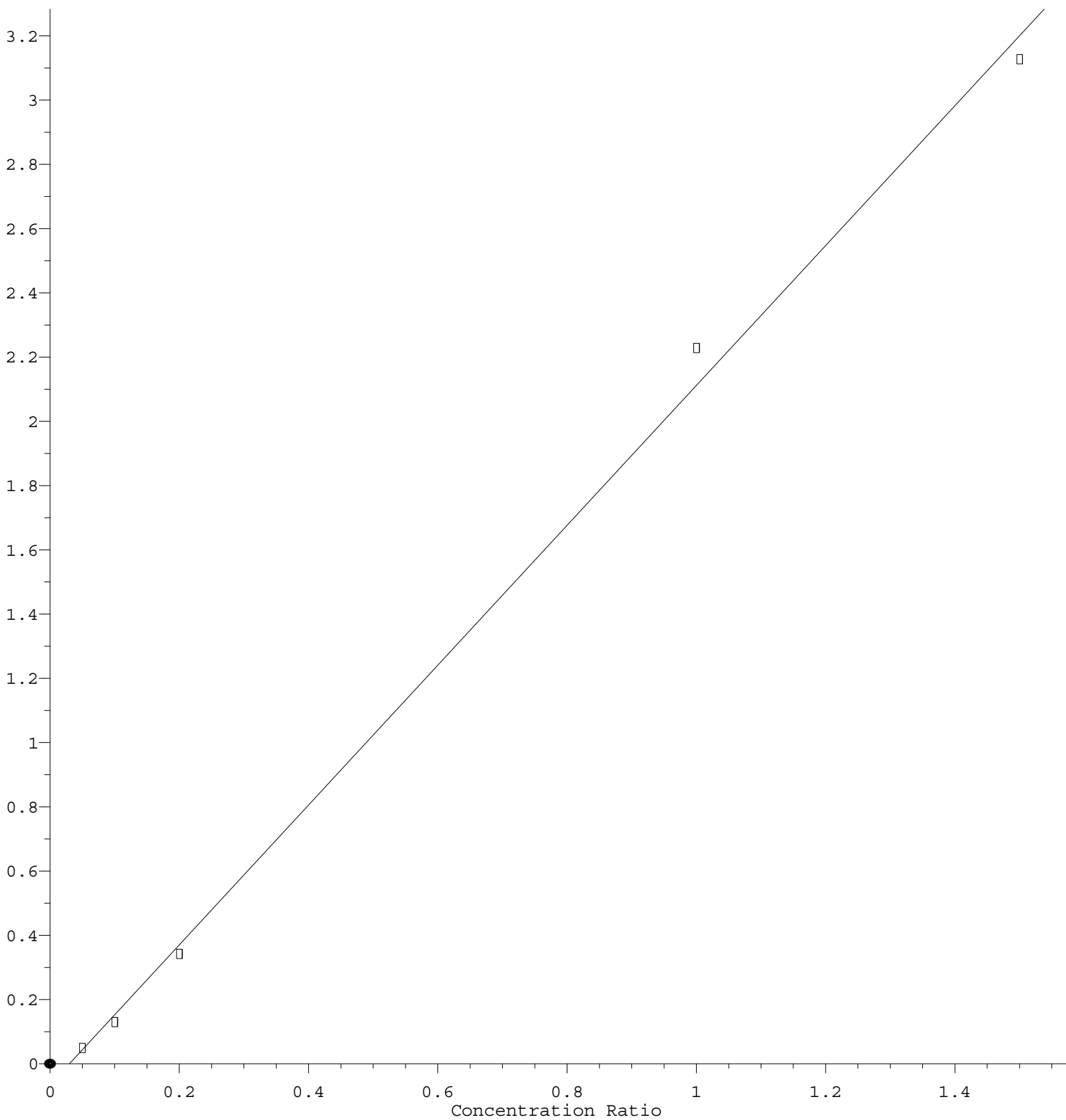
RF Rel Std Dev = 25.504% Curve Fit: Avg RF

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL091725AIR.M

Calibration Table Last Updated: Thu Sep 18 02:57:46 2025

n-Butylbenzene

Response Ratio



$$\text{Response} = 2.177\text{e}+000 * \text{Amt} - 6.568\text{e}-002$$

Coef of Det (r^2) = 0.997454 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL091725AIR.M

Calibration Table Last Updated: Thu Sep 18 02:57:46 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042935.D
 Acq On : 17 Sep 2025 13:42
 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	160573	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	415318	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	353249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 295803 10.713 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	232093	10.119	ppbv	100
3) Chlorodifluoromethane	1.479	51	238232	9.865	ppbv	100
4) Chloromethane	1.534	50	92202	10.003	ppbv	100
5) Vinyl Chloride	1.583	62	80228	9.226	ppbv	100
6) Bromomethane	1.670	94	30537	10.105	ppbv	100
7) Chloroethane	1.706	64	32281	10.079	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	183602	10.089	ppbv	100
9) Propene	1.486	41	86426	9.800	ppbv	100
10) Heptane	4.988	43	259422	11.872	ppbv	100
11) Trichlorofluoromethane	1.881	101	229480	10.128	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	178790	10.100	ppbv	100
13) Ethanol	1.722	45	7630	8.486	ppbv	98
14) Bromoethene	1.784	108	62744	9.949	ppbv	100
15) Acetone	1.839	43	172060	8.724	ppbv	100
16) 1,3-Butadiene	1.612	39	79400	9.624	ppbv	100
17) tert-Butyl alcohol	2.042	59	187824	9.890	ppbv	100
18) 1,1-Dichloroethene	2.036	96	78341	10.110	ppbv	100
19) Isopropyl Alcohol	1.887	45	103481	9.786	ppbv	100
20) Methylene Chloride	2.065	84	67680	7.882	ppbv	100
21) Allyl Chloride	2.097	41	132660	9.923	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	88151	10.037	ppbv	100
23) Vinyl Acetate	2.466	43	238255	10.397	ppbv	100
24) 1,1-Dichloroethane	2.411	63	176500	10.174	ppbv	100
25) Ethyl Acetate	2.835	43	455318	10.811	ppbv	100
26) Hexane	2.829	57	199382	11.031	ppbv	100
27) Carbon Disulfide	2.152	76	220787	9.904	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	99133	9.982	ppbv	100
29) Chloroform	2.852	83	299464	10.137	ppbv	100
30) Cyclohexane	3.861	84	162355	11.924	ppbv	100
31) cis-1,2-Dichloroethene	2.725	61	184566	10.459	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	274368	9.926	ppbv	100
34) 2-Butanone	2.560	43	280052	10.402	ppbv	100
35) Carbon Tetrachloride	3.768	117	287073	9.724	ppbv	100
36) Benzene	3.661	78	383581	10.588	ppbv	100
37) 1,2-Dichloroethane	3.221	62	218944	10.091	ppbv	100
38) Trichloroethene	4.557	130	166868	10.176	ppbv	100
39) 1,2-Dichloropropane	4.318	63	148415	10.139	ppbv	100
40) 1,4-Dioxane	4.583	88	60929	11.733	ppbv #	100
41) Tetrahydrofuran	3.056	42	150567	11.375	ppbv	100
42) Bromodichloromethane	4.496	83	316501	10.165	ppbv	100
43) Methyl Methacrylate	4.884	69	143457	11.807	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	700623	11.595	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	146102	11.424	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042935.D
 Acq On : 17 Sep 2025 13:42
 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 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	197003	11.174	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	156042	10.453	ppbv	100
48) Dibromochloromethane	7.393	129	244251	10.447	ppbv	100
49) Bromoform	9.490	173	196118	10.747	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	387522	12.080	ppbv	100
51) 2-Hexanone	7.441	43	307420	13.020	ppbv	100
52) Tetrachloroethene	8.231	164	115985	10.295	ppbv	100
53) Toluene	6.939	91	415754	12.313	ppbv	100
54) 1,2-Dibromoethane	7.658	107	211125	10.997	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	186222	10.345	ppbv	100
57) Chlorobenzene	8.927	112	342500	10.490	ppbv	100
58) Ethyl Benzene	9.360	91	582982	12.810	ppbv	100
59) m/p-Xylene	9.558	91	983541m	25.571	ppbv	
60) o-Xylene	9.969	91	495406	12.957	ppbv	100
61) Styrene	9.875	104	196509	9.941	ppbv	100
62) Isopropylbenzene	10.545	105	707651	12.705	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	283680	10.272	ppbv	100
64) n-propylbenzene	10.992	120	182766	12.656	ppbv	100
65) tert-Butylbenzene	11.536	119	619284	13.011	ppbv	100
66) Benzyl Chloride	11.620	91	53013	11.987	ppbv	100
67) sec-Butylbenzene	11.772	105	904817	12.496	ppbv	100
69) p-Isopropyltoluene	11.930	119	730122	13.084	ppbv	100
70) n-Butylbenzene	12.286	91	787146	10.537	ppbv	100
71) 2-Chlorotoluene	10.904	91	530980	12.848	ppbv	100
72) 4-Ethyltoluene	11.131	105	597492	10.333	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	493710	13.051	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	566106	12.734	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	319203	11.326	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	322554	11.896	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	316961	11.147	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	185221	10.199	ppbv	100
79) Naphthalene	13.516	128	474749	10.151	ppbv	100
80) Naphthalene,2-methyl-	14.461	142	132693	9.058	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	224163	9.993	ppbv	100

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

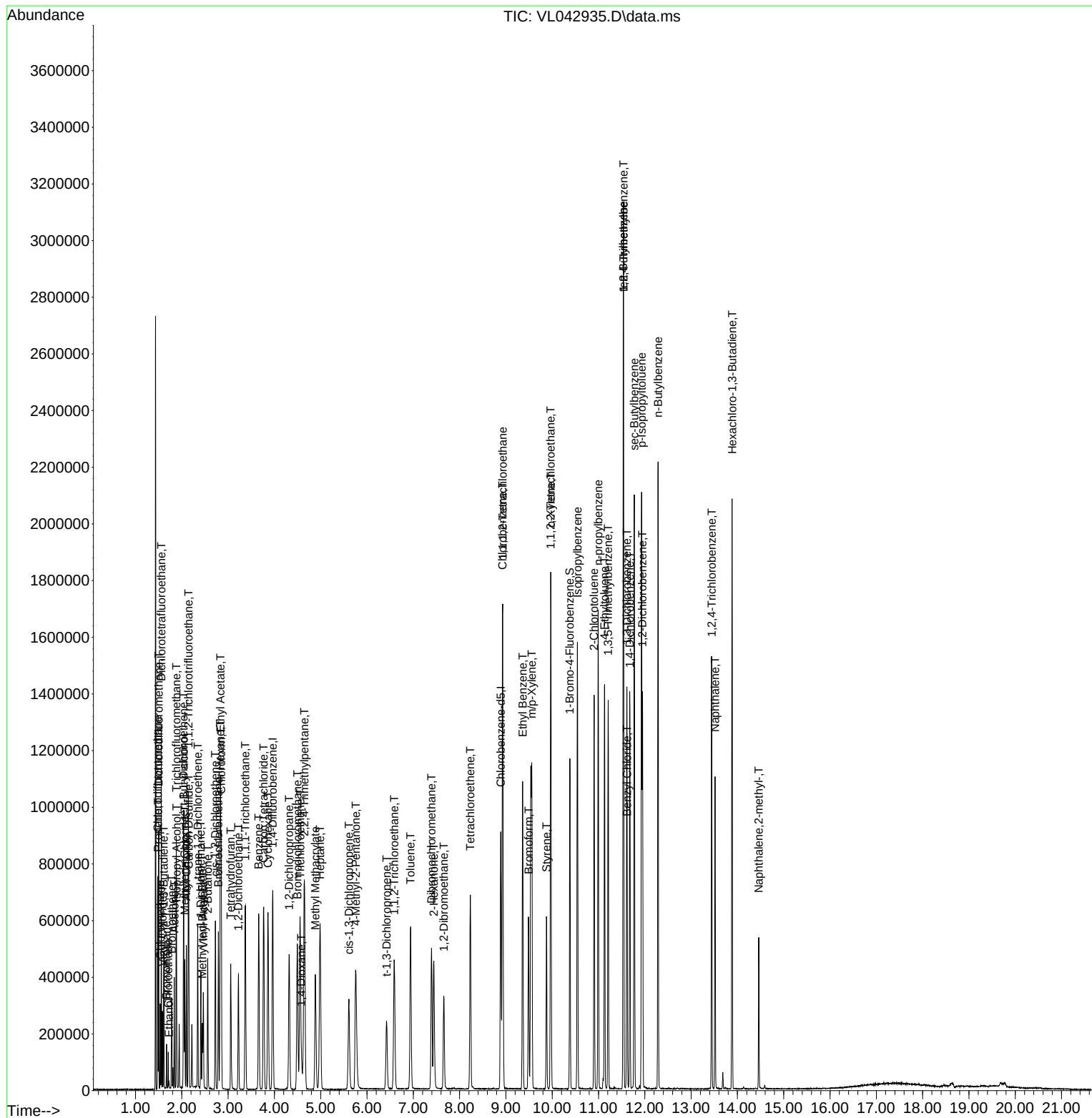
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
Data File : VL042935.D
Acq On : 17 Sep 2025 13:42
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/18/2025
Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042936.D
 Acq On : 17 Sep 2025 14:17
 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 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	166880	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	435144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	378127	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 301418 10.198 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	342031	14.349	ppbv	99
3) Chlorodifluoromethane	1.476	51	364078	14.507	ppbv	100
4) Chloromethane	1.534	50	137673	14.371	ppbv	96
5) Vinyl Chloride	1.583	62	122964	13.606	ppbv	98
6) Bromomethane	1.670	94	45220	14.399	ppbv	96
7) Chloroethane	1.706	64	50396	15.140	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	275345	14.559	ppbv	99
9) Propene	1.486	41	145520	15.877	ppbv	98
10) Heptane	4.985	43	400273	17.626	ppbv	99
11) Trichlorofluoromethane	1.881	101	341853	14.517	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	266384	14.480	ppbv	100
13) Ethanol	1.722	45	12036	12.880	ppbv	88
14) Bromoethene	1.784	108	96723	14.758	ppbv	98
15) Acetone	1.835	43	261592	12.762	ppbv	99
16) 1,3-Butadiene	1.612	39	123576	14.413	ppbv	99
17) tert-Butyl alcohol	2.039	59	288104	14.597	ppbv	99
18) 1,1-Dichloroethene	2.036	96	119994	14.901	ppbv	96
19) Isopropyl Alcohol	1.887	45	157857	14.364	ppbv #	1
20) Methylene Chloride	2.065	84	103933	11.646	ppbv	97
21) Allyl Chloride	2.098	41	206205	14.841	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	133482	14.624	ppbv	97
23) Vinyl Acetate	2.463	43	409957	17.213	ppbv	98
24) 1,1-Dichloroethane	2.412	63	267165	14.818	ppbv	99
25) Ethyl Acetate	2.836	43	697465	15.935	ppbv	100
26) Hexane	2.829	57	319529	17.011	ppbv	94
27) Carbon Disulfide	2.153	76	339264	14.644	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	158791	15.384	ppbv	99
29) Chloroform	2.852	83	454938	14.817	ppbv	96
30) Cyclohexane	3.862	84	263817	18.643	ppbv	99
31) cis-1,2-Dichloroethene	2.725	61	297831	16.240	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	429312	14.944	ppbv	99
34) 2-Butanone	2.557	43	447323	15.858	ppbv	97
35) Carbon Tetrachloride	3.768	117	434961	14.062	ppbv	99
36) Benzene	3.661	78	622923	16.412	ppbv	100
37) 1,2-Dichloroethane	3.221	62	342237	15.055	ppbv	99
38) Trichloroethene	4.554	130	263119	15.314	ppbv	95
39) 1,2-Dichloropropane	4.318	63	233331	15.214	ppbv	97
40) 1,4-Dioxane	4.583	88	94289	17.330	ppbv #	96
41) Tetrahydrofuran	3.052	42	252880	18.235	ppbv	99
42) Bromodichloromethane	4.493	83	487210	14.935	ppbv	99
43) Methyl Methacrylate	4.881	69	237510	18.657	ppbv	98
44) 2,2,4-Trimethylpentane	4.645	57	1074444	16.972	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	248122	18.517	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042936.D
 Acq On : 17 Sep 2025 14:17
 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 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:32:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:25:28 2025

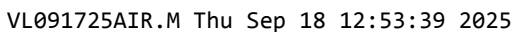
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	331381	17.939	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	237995	15.216	ppbv	98
48) Dibromochloromethane	7.393	129	378815	15.464	ppbv	99
49) Bromoform	9.490	173	300343	15.709	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	623273	18.544	ppbv	98
51) 2-Hexanone	7.441	43	492844	19.922	ppbv #	98
52) Tetrachloroethene	8.231	164	183151	15.516	ppbv	96
53) Toluene	6.940	91	678667	19.184	ppbv	99
54) 1,2-Dibromoethane	7.658	107	329410	16.376	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.930	131	282351	14.654	ppbv	99
57) Chlorobenzene	8.927	112	521288	14.916	ppbv	97
58) Ethyl Benzene	9.361	91	928410	19.058	ppbv	100
59) m/p-Xylene	9.558	91	1503527m	36.519	ppbv	
60) o-Xylene	9.969	91	761569	18.607	ppbv	100
61) Styrene	9.875	104	325087	15.069	ppbv	99
62) Isopropylbenzene	10.542	105	1072342	17.986	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	426688	14.434	ppbv	98
64) n-propylbenzene	10.995	120	280188	18.126	ppbv	96
65) tert-Butylbenzene	11.536	119	939322	18.437	ppbv	100
66) Benzyl Chloride	11.620	91	90114	19.035	ppbv	99
67) sec-Butylbenzene	11.772	105	1361807	17.569	ppbv	100
69) p-Isopropyltoluene	11.930	119	1110321	18.588	ppbv	99
70) n-Butylbenzene	12.283	91	1182368	14.665	ppbv	98
71) 2-Chlorotoluene	10.904	91	823050	18.604	ppbv	99
72) 4-Ethyltoluene	11.128	105	926161	14.801	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	761800	18.813	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	849558	17.853	ppbv #	87
75) 1,3-Dichlorobenzene	11.610	146	491485	16.291	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	487745	16.805	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	476080	15.641	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	285795	14.702	ppbv	99
79) Naphthalene	13.516	128	758929	14.938	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	254607	15.635	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	365929	15.017	ppbv	99

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

Manual Integrations

Quant Time: Sep 18 02:32:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Sep 18 02:25:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:00:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163811	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	429845	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	368077	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 295691 10.278 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	229111	9.792	ppbv	99
3) Chlorodifluoromethane	1.476	51	246816	10.019	ppbv	99
4) Chloromethane	1.534	50	88317	9.392	ppbv	98
5) Vinyl Chloride	1.580	62	79666	8.980	ppbv	97
6) Bromomethane	1.667	94	29113	9.444	ppbv	89
7) Chloroethane	1.706	64	32759	10.026	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	183884	9.905	ppbv	100
9) Propene	1.482	41	98232	10.919	ppbv	99
10) Heptane	4.978	43	264357	11.859	ppbv	100
11) Trichlorofluoromethane	1.877	101	228320	9.878	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	175799	9.735	ppbv	99
13) Ethanol	1.722	45	6424	7.003	ppbv	92
14) Bromoethene	1.783	108	61980	9.634	ppbv	99
15) Acetone	1.835	43	166535	8.277	ppbv	99
16) 1,3-Butadiene	1.609	39	82098	9.755	ppbv	98
17) tert-Butyl alcohol	2.039	59	195293	10.080	ppbv	99
18) 1,1-Dichloroethene	2.036	96	80688	10.208	ppbv	94
19) Isopropyl Alcohol	1.884	45	104411	9.679	ppbv #	1
20) Methylene Chloride	2.062	84	69478	7.931	ppbv	96
21) Allyl Chloride	2.097	41	135109	9.906	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	88461	9.873	ppbv	97
23) Vinyl Acetate	2.463	43	245812	10.514	ppbv	99
24) 1,1-Dichloroethane	2.408	63	178694	10.097	ppbv	99
25) Ethyl Acetate	2.832	43	465727	10.840	ppbv	99
26) Hexane	2.826	57	214492	11.633	ppbv	94
27) Carbon Disulfide	2.149	76	225070	9.897	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	100988	9.968	ppbv	99
29) Chloroform	2.848	83	303164	10.059	ppbv	99
30) Cyclohexane	3.858	84	169974	12.237	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	201417	11.188	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	282320	10.012	ppbv	99
34) 2-Butanone	2.557	43	295206	10.594	ppbv	98
35) Carbon Tetrachloride	3.761	117	287165	9.398	ppbv	98
36) Benzene	3.657	78	409107	10.911	ppbv	99
37) 1,2-Dichloroethane	3.217	62	226948	10.107	ppbv	100
38) Trichloroethene	4.548	130	176428	10.395	ppbv	98
39) 1,2-Dichloropropane	4.315	63	154678	10.208	ppbv	97
40) 1,4-Dioxane	4.580	88	62205	11.567	ppbv #	95
41) Tetrahydrofuran	3.052	42	164799	11.951	ppbv	98
42) Bromodichloromethane	4.489	83	328094	10.181	ppbv	96
43) Methyl Methacrylate	4.878	69	154971	12.345	ppbv	98
44) 2,2,4-Trimethylpentane	4.641	57	714131	11.419	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	159002	12.012	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:00:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	215811	11.827	ppbv	96
47) 1,1,2-Trichloroethane	6.583	97	156292	10.115	ppbv	98
48) Dibromochloromethane	7.386	129	248022	10.249	ppbv	100
49) Bromoform	9.483	173	199430	10.559	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	401816	12.061	ppbv	99
51) 2-Hexanone	7.435	43	309643	12.515	ppbv	98
52) Tetrachloroethene	8.224	164	117822	10.191	ppbv	95
53) Toluene	6.936	91	437541	12.514	ppbv	99
54) 1,2-Dibromoethane	7.655	107	216018	10.868	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	185285	9.881	ppbv	99
57) Chlorobenzene	8.924	112	345434	10.154	ppbv	99
58) Ethyl Benzene	9.357	91	594613	12.539	ppbv	98
59) m/p-Xylene	9.535	91	992545m	24.769	ppbv	
60) o-Xylene	9.966	91	493072	12.376	ppbv	98
61) Styrene	9.875	104	207040	10.047	ppbv	99
62) Isopropylbenzene	10.542	105	705403	12.155	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	281350	9.775	ppbv	99
64) n-propylbenzene	10.992	120	182390	12.121	ppbv	98
65) tert-Butylbenzene	11.532	119	614507	12.391	ppbv	100
66) Benzyl Chloride	11.616	91	55461	12.035	ppbv	99
67) sec-Butylbenzene	11.769	105	903484	11.975	ppbv	99
69) p-Isopropyltoluene	11.927	119	728062	12.521	ppbv	99
70) n-Butylbenzene	12.283	91	776317	9.990	ppbv	99
71) 2-Chlorotoluene	10.904	91	539069	12.518	ppbv	100
72) 4-Ethyltoluene	11.128	105	596475	9.915	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	490000	12.431	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	560019	12.090	ppbv #	88
75) 1,3-Dichlorobenzene	11.610	146	320827	10.925	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	316382	11.199	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	309923	10.460	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	181670	9.601	ppbv	99
79) Naphthalene	13.513	128	471217	9.690	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	114187	7.615	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	219451	9.415	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	1.428	1.399	2.0	99	0.00
3	Chlorodifluoromethane	1.504	1.507	-0.2	104	0.00
4	Chloromethane	0.574	0.539	6.1	96	0.00
5 T	Vinyl Chloride	0.542	0.486	10.3	99	0.00
6 T	Bromomethane	0.188	0.178	5.3	95	0.00
7	Chloroethane	0.199	0.200	-0.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.133	1.123	0.9	100	0.00
9 T	Propene	0.549	0.600	-9.3	114	0.00
10 T	Heptane	1.361	1.614	-18.6	102	0.00
11 T	Trichlorofluoromethane	1.411	1.394	1.2	99	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.102	1.073	2.6	98	0.00
13	Ethanol	0.056	0.039#	30.4#	84	0.00
14 T	Bromoethene	0.393	0.378	3.8	99	0.00
15 T	Acetone	1.228	1.017	17.2	97	0.00
16 T	1,3-Butadiene	0.514	0.501	2.5	103	0.00
17	tert-Butyl alcohol	1.183	1.192	-0.8	104	0.00
18 T	1,1-Dichloroethene	0.483	0.493	-2.1	103	0.00
19 T	Isopropyl Alcohol	0.659	0.637	3.3	101	0.00
20 T	Methylene Chloride	0.535	0.424	20.7	103	0.00
21 T	Allyl Chloride	0.833	0.825	1.0	102	0.00
22 T	trans-1,2-Dichloroethene	0.547	0.540	1.3	100	0.00
23 T	Vinyl Acetate	1.427	1.501	-5.2	103	0.00
24 T	1,1-Dichloroethane	1.080	1.091	-1.0	101	0.00
25 T	Ethyl Acetate	2.623	2.843	-8.4	102	0.00
26 T	Hexane	1.126	1.309	-16.3	108	0.00
27 T	Carbon Disulfide	1.388	1.374	1.0	102	0.00
28 T	Methyl tert-Butyl Ether	0.619	0.616	0.5	102	0.00
29 T	Chloroform	1.840	1.851	-0.6	101	0.00
30 T	Cyclohexane	0.848	1.038	-22.4	105	0.00
31 T	cis-1,2-Dichloroethene	1.099	1.230	-11.9	109	0.00
32 T	1,1,1-Trichloroethane	1.721	1.723	-0.1	103	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
34 T	2-Butanone	0.648	0.687	-6.0	105	0.00
35 T	Carbon Tetrachloride	0.711	0.668	6.0	100	0.00
36 T	Benzene	0.872	0.952	-9.2	107	0.00
37 T	1,2-Dichloroethane	0.522	0.528	-1.1	104	0.00
38 T	Trichloroethene	0.395	0.410	-3.8	106	0.00
39 T	1,2-Dichloropropane	0.353	0.360	-2.0	104	0.00
40 T	1,4-Dioxane	0.125	0.145	-16.0	102	0.00
41 T	Tetrahydrofuran	0.321	0.383	-19.3	109	0.00
42 T	Bromodichloromethane	0.750	0.763	-1.7	104	0.00
43	Methyl Methacrylate	0.292	0.361	-23.6	108	0.00
44 T	2,2,4-Trimethylpentane	1.455	1.661	-14.2	102	0.00
45 T	t-1,3-Dichloropropene	0.308	0.370	-20.1	109	0.00
46 T	cis-1,3-Dichloropropene	0.425	0.502	-18.1	110	0.00
47 T	1,1,2-Trichloroethane	0.359	0.364	-1.4	100	0.00
48 T	Dibromochloromethane	0.563	0.577	-2.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	0.439	0.464	-5.7	102	0.00
50 T	4-Methyl-2-Pentanone	0.775	0.935	-20.6	104	0.00
51 T	2-Hexanone	0.576	0.720	-25.0	101	0.00
52 T	Tetrachloroethene	0.269	0.274	-1.9	102	0.00
53 T	Toluene	0.813	1.018	-25.2	105	0.00
54 T	1,2-Dibromoethane	0.462	0.503	-8.9	102	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	0.509	0.503	1.2	99	0.00
57 T	Chlorobenzene	0.924	0.938	-1.5	101	0.00
58 T	Ethyl Benzene	1.288	1.615	-25.4	102	0.00
59 T	m/p-Xylene	1.089	1.348	-23.8	101	-0.02
60 T	o-Xylene	1.082	1.340	-23.8	100	0.00
61 T	Styrene	0.403	0.562	-39.5#	105	0.00
62	Isopropylbenzene	1.577	1.916	-21.5	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.782	0.764	2.3	99	0.00
64	n-propylbenzene	0.409	0.496	-21.3	100	0.00
65	tert-Butylbenzene	1.347	1.670	-24.0	99	0.00
66 T	Benzyl Chloride	0.125	0.151	-20.8	105	0.00
67	sec-Butylbenzene	2.050	2.455	-19.8	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.782	0.803	-2.7	100	0.00
69	p-Isopropyltoluene	1.580	1.978	-25.2	100	0.00
70	n-Butylbenzene	1.661	2.109	-27.0	99	0.00
71	2-Chlorotoluene	1.170	1.465	-25.2	102	0.00
72 T	4-Ethyltoluene	1.267	1.621	-27.9	100	0.00
73 T	1,3,5-Trimethylbenzene	1.071	1.331	-24.3	99	0.00
74 T	1,2,4-Trimethylbenzene	1.258	1.521	-20.9	99	0.00
75 T	1,3-Dichlorobenzene	0.798	0.872	-9.3	101	0.00
76 T	1,4-Dichlorobenzene	0.768	0.860	-12.0	98	0.00
77 T	1,2-Dichlorobenzene	0.805	0.842	-4.6	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.514	0.494	3.9	98	0.00
79 T	Naphthalene	0.849	1.280	-50.8#	99	0.00
80 T	Naphthalene,2-methyl-	0.275	0.310	-12.7	86	0.00
81 T	1,2,4-Trichlorobenzene	0.479	0.596	-24.4	98	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	9.792	2.1	99	0.00
3	Chlorodifluoromethane	10.000	10.019	-0.2	104	0.00
4	Chloromethane	10.000	9.392	6.1	96	0.00
5 T	Vinyl Chloride	10.000	8.980	10.2	99	0.00
6 T	Bromomethane	10.000	9.444	5.6	95	0.00
7	Chloroethane	10.000	10.026	-0.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.905	1.0	100	0.00
9 T	Propene	10.000	10.919	-9.2	114	0.00
10 T	Heptane	10.000	11.859	-18.6	102	0.00
11 T	Trichlorofluoromethane	10.000	9.878	1.2	99	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.735	2.7	98	0.00
13	Ethanol	10.000	7.003	30.0	84	0.00
14 T	Bromoethene	10.000	9.634	3.7	99	0.00
15 T	Acetone	10.000	8.277	17.2	97	0.00
16 T	1,3-Butadiene	10.000	9.755	2.4	103	0.00
17	tert-Butyl alcohol	10.000	10.080	-0.8	104	0.00
18 T	1,1-Dichloroethene	10.000	10.208	-2.1	103	0.00
19 T	Isopropyl Alcohol	10.000	9.679	3.2	101	0.00
20 T	Methylene Chloride	10.000	7.931	20.7	103	0.00
21 T	Allyl Chloride	10.000	9.906	0.9	102	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.873	1.3	100	0.00
23 T	Vinyl Acetate	10.000	10.514	-5.1	103	0.00
24 T	1,1-Dichloroethane	10.000	10.097	-1.0	101	0.00
25 T	Ethyl Acetate	10.000	10.840	-8.4	102	0.00
26 T	Hexane	10.000	11.633	-16.3	108	0.00
27 T	Carbon Disulfide	10.000	9.897	1.0	102	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.968	0.3	102	0.00
29 T	Chloroform	10.000	10.059	-0.6	101	0.00
30 T	Cyclohexane	10.000	12.237	-22.4	105	0.00
31 T	cis-1,2-Dichloroethene	10.000	11.188	-11.9	109	0.00
32 T	1,1,1-Trichloroethane	10.000	10.012	-0.1	103	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	103	0.00
34 T	2-Butanone	10.000	10.594	-5.9	105	0.00
35 T	Carbon Tetrachloride	10.000	9.398	6.0	100	0.00
36 T	Benzene	10.000	10.911	-9.1	107	0.00
37 T	1,2-Dichloroethane	10.000	10.107	-1.1	104	0.00
38 T	Trichloroethene	10.000	10.395	-3.9	106	0.00
39 T	1,2-Dichloropropane	10.000	10.208	-2.1	104	0.00
40 T	1,4-Dioxane	10.000	11.567	-15.7	102	0.00
41 T	Tetrahydrofuran	10.000	11.951	-19.5	109	0.00
42 T	Bromodichloromethane	10.000	10.181	-1.8	104	0.00
43	Methyl Methacrylate	10.000	12.345	-23.5	108	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.419	-14.2	102	0.00
45 T	t-1,3-Dichloropropene	10.000	12.012	-20.1	109	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.827	-18.3	110	0.00
47 T	1,1,2-Trichloroethane	10.000	10.115	-1.2	100	0.00
48 T	Dibromochloromethane	10.000	10.249	-2.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091725\
 Data File : VL042937.D
 Acq On : 17 Sep 2025 14:52
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091725

Quant Time: Sep 18 03:00:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	10.559	-5.6	102	0.00
50 T	4-Methyl-2-Pentanone	10.000	12.061	-20.6	104	0.00
51 T	2-Hexanone	10.000	12.515	-25.2	101	0.00
52 T	Tetrachloroethene	10.000	10.191	-1.9	102	0.00
53 T	Toluene	10.000	12.514	-25.1	105	0.00
54 T	1,2-Dibromoethane	10.000	10.868	-8.7	102	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.881	1.2	99	0.00
57 T	Chlorobenzene	10.000	10.154	-1.5	101	0.00
58 T	Ethyl Benzene	10.000	12.539	-25.4	102	0.00
59 T	m/p-Xylene	20.000	24.769	-23.8	101	-0.02
60 T	o-Xylene	10.000	12.376	-23.8	100	0.00
61 T	Styrene	10.000	10.047	-0.5	105	0.00
62	Isopropylbenzene	10.000	12.155	-21.5	100	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.775	2.2	99	0.00
64	n-propylbenzene	10.000	12.121	-21.2	100	0.00
65	tert-Butylbenzene	10.000	12.391	-23.9	99	0.00
66 T	Benzyl Chloride	10.000	12.035	-20.4	105	0.00
67	sec-Butylbenzene	10.000	11.975	-19.7	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.278	-2.8	100	0.00
69	p-Isopropyltoluene	10.000	12.521	-25.2	100	0.00
70	n-Butylbenzene	10.000	9.990	0.1	99	0.00
71	2-Chlorotoluene	10.000	12.518	-25.2	102	0.00
72 T	4-Ethyltoluene	10.000	9.915	0.9	100	0.00
73 T	1,3,5-Trimethylbenzene	10.000	12.431	-24.3	99	0.00
74 T	1,2,4-Trimethylbenzene	10.000	12.090	-20.9	99	0.00
75 T	1,3-Dichlorobenzene	10.000	10.925	-9.3	101	0.00
76 T	1,4-Dichlorobenzene	10.000	11.199	-12.0	98	0.00
77 T	1,2-Dichlorobenzene	10.000	10.460	-4.6	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.601	4.0	98	0.00
79 T	Naphthalene	10.000	9.690	3.1	99	0.00
80 T	Naphthalene,2-methyl-	10.000	7.615	23.8	86	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.415	5.9	98	0.00

(#) = Out of Range

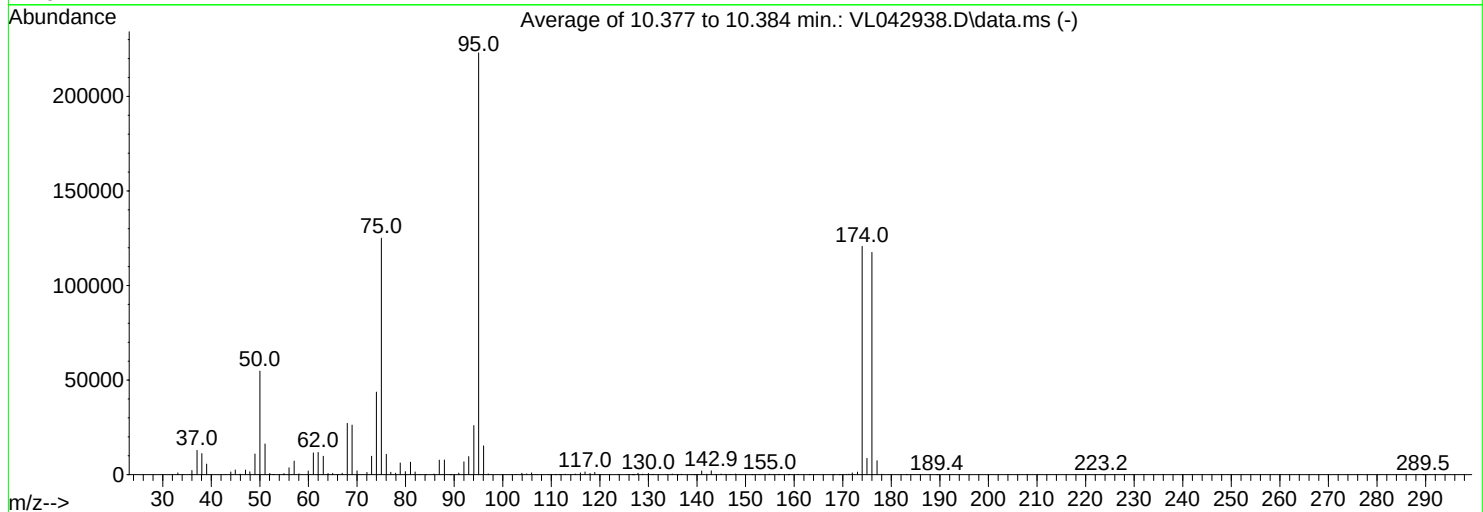
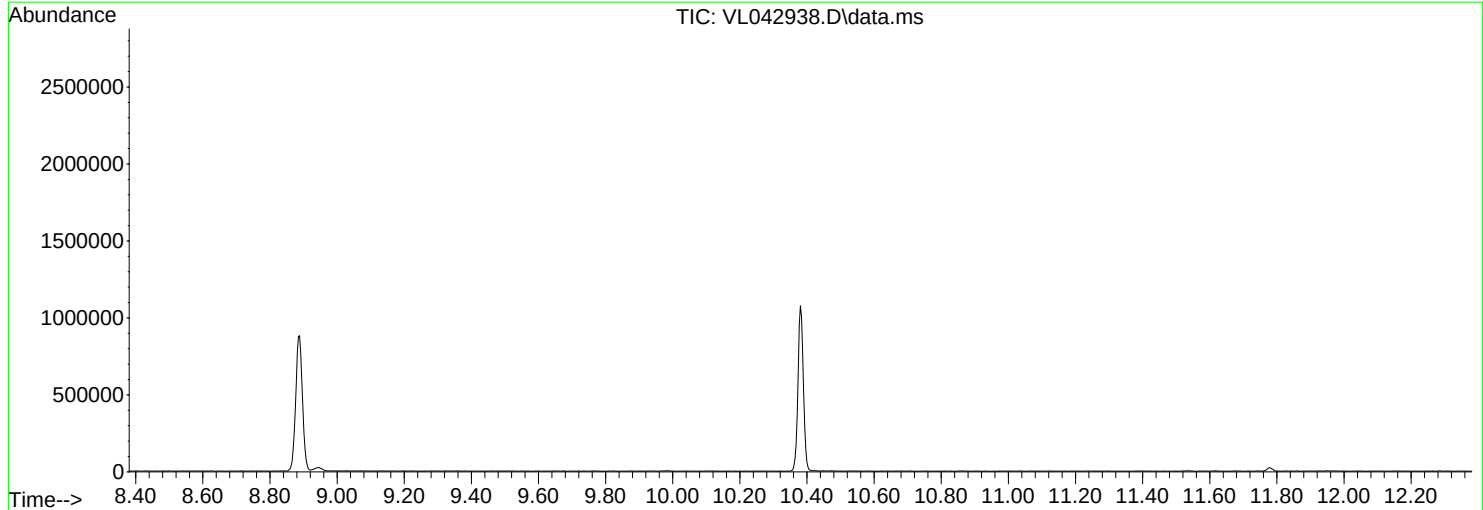
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
Data File : VL042938.D
Acq On : 18 Sep 2025 07:46
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\VL091725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Sep 18 02:57:46 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	24.5	54715	PASS
75	95	30	66	56.1	125027	PASS
95	95	100	100	100.0	223019	PASS
96	95	5	9	6.8	15247	PASS
173	174	0.00	2	1.1	1327	PASS
174	95	50	120	54.1	120688	PASS
175	174	4	9	7.2	8675	PASS
176	174	93	101	97.4	117509	PASS
177	176	5	9	6.3	7359	PASS

Average of 10.377 to 10.384 min.: VL042938.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	940	47.05	2452	56.00	3618	66.95	76
34.15	81	47.95	1522	57.05	7180	68.00	2712
36.00	2244	49.00	10911	58.05	408	69.00	2621
37.05	12901	50.00	54715	59.95	1973	70.00	206
38.05	11180	51.05	16251	61.00	11498	72.05	1180
39.05	5565	52.05	699	62.00	11801	73.00	9761
42.85	95	52.70	69	63.05	9721	74.00	43627
44.00	1483	52.95	144	63.90	323	75.00	125027
44.95	2417	54.05	148	64.10	440	76.05	10769
45.80	138	54.85	426	65.00	717	76.95	1298
46.05	268	55.10	322	66.10	100	77.95	803

Average of 10.377 to 10.384 min.: VL042938.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.90	6156	92.00	6812	107.10	117	117.95	698
79.95	1630	93.00	9523	109.55	53	118.95	1181
81.00	6577	94.05	26011	110.00	115	119.95	11
81.95	1453	95.05	223019	110.85	189	123.75	137
83.00	131	96.05	15247	111.10	94	125.60	49
84.10	35	97.00	417	111.70	126	126.15	68
85.85	353	102.70	71	111.95	65	126.70	19
86.95	7683	103.95	804	112.85	237	127.00	47
88.00	7814	104.95	400	114.95	337	127.85	800
89.20	32	105.95	907	116.00	914	128.80	290
90.95	862	106.80	119	116.95	1414	130.00	665

Average of 10.377 to 10.384 min.: VL042938.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
130.80	61	142.95	2020	153.95	86	169.30	36
131.00	189	143.70	107	154.80	211	170.00	80
133.65	61	144.95	355	155.00	246	170.80	69
134.90	371	145.90	207	155.80	50	171.25	249
136.00	20	146.75	52	156.80	195	171.95	937
136.75	255	147.00	85	157.00	83	173.05	1327
138.90	51	147.95	346	158.70	41	174.00	120688
139.40	44	148.90	110	159.05	199	175.00	8675
140.05	50	150.00	176	160.85	151	176.00	117509
140.95	1970	151.30	24	163.10	18	177.05	7359
142.00	244	152.95	145	168.10	23	178.05	280

Average of 10.377 to 10.384 min.: VL042938.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.10	23						
189.40	17						
223.20	63						
289.50	23						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:21:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	157654	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	416196	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	350205	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 287353 10.498 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	223802	9.938	ppbv	98
3) Chlorodifluoromethane	1.476	51	244077	10.294	ppbv	100
4) Chloromethane	1.534	50	85553	9.453	ppbv	98
5) Vinyl Chloride	1.583	62	77985	9.134	ppbv	95
6) Bromomethane	1.670	94	28462	9.593	ppbv	99
7) Chloroethane	1.706	64	31268	9.943	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	175256	9.809	ppbv	100
9) Propene	1.486	41	97529	11.264	ppbv	98
10) Heptane	4.988	43	256082	11.936	ppbv	99
11) Trichlorofluoromethane	1.881	101	212480	9.551	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	163856	9.428	ppbv	97
13) Ethanol	1.725	45	6145	6.961	ppbv	93
14) Bromoethene	1.784	108	57603	9.303	ppbv	98
15) Acetone	1.839	43	154852	7.997	ppbv	98
16) 1,3-Butadiene	1.612	39	79708	9.840	ppbv	98
17) tert-Butyl alcohol	2.042	59	188621	10.116	ppbv	98
18) 1,1-Dichloroethene	2.039	96	73857	9.708	ppbv	96
19) Isopropyl Alcohol	1.890	45	99740	9.607	ppbv #	1
20) Methylene Chloride	2.065	84	66946	7.941	ppbv	96
21) Allyl Chloride	2.101	41	128419	9.783	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	84863	9.842	ppbv	99
23) Vinyl Acetate	2.466	43	245936	10.931	ppbv	98
24) 1,1-Dichloroethane	2.411	63	167836	9.854	ppbv	98
25) Ethyl Acetate	2.842	43	459524	11.113	ppbv	100
26) Hexane	2.832	57	205167	11.562	ppbv	98
27) Carbon Disulfide	2.156	76	213658	9.762	ppbv	98
28) Methyl tert-Butyl Ether	2.444	73	93883	9.628	ppbv	98
29) Chloroform	2.855	83	299404	10.322	ppbv	99
30) Cyclohexane	3.865	84	167350	12.518	ppbv	100
31) cis-1,2-Dichloroethene	2.725	61	194977	11.254	ppbv	98
32) 1,1,1-Trichloroethane	3.376	97	278380	10.257	ppbv	100
34) 2-Butanone	2.560	43	290768	10.777	ppbv	98
35) Carbon Tetrachloride	3.771	117	285378	9.646	ppbv	94
36) Benzene	3.664	78	399269	10.998	ppbv	97
37) 1,2-Dichloroethane	3.224	62	224589	10.330	ppbv	99
38) Trichloroethene	4.557	130	168064	10.227	ppbv	95
39) 1,2-Dichloropropane	4.324	63	151824	10.348	ppbv	96
40) 1,4-Dioxane	4.593	88	55603	10.678	ppbv #	96
41) Tetrahydrofuran	3.059	42	160226	12.000	ppbv	99
42) Bromodichloromethane	4.499	83	320875	10.284	ppbv	97
43) Methyl Methacrylate	4.891	69	148839	12.245	ppbv	99
44) 2,2,4-Trimethylpentane	4.651	57	694671	11.472	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	153654	11.989	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 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 09/19/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:21:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	208635	11.808	ppbv	95
47) 1,1,2-Trichloroethane	6.596	97	157128	10.503	ppbv	98
48) Dibromochloromethane	7.396	129	244295	10.426	ppbv	100
49) Bromoform	9.493	173	196187	10.728	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	392734	12.175	ppbv	100
51) 2-Hexanone	7.444	43	306892	12.811	ppbv	100
52) Tetrachloroethene	8.234	164	116819	10.435	ppbv	94
53) Toluene	6.946	91	426986	12.613	ppbv	100
54) 1,2-Dibromoethane	7.665	107	211227	10.975	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	180285	10.105	ppbv	97
57) Chlorobenzene	8.933	112	338397	10.455	ppbv	99
58) Ethyl Benzene	9.364	91	581778	12.894	ppbv	99
59) m/p-Xylene	9.561	91	971576m	25.483	ppbv	
60) o-Xylene	9.972	91	491310	12.961	ppbv	99
61) Styrene	9.878	104	200245	10.204	ppbv	99
62) Isopropylbenzene	10.548	105	691261	12.519	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	275929	10.076	ppbv	99
64) n-propylbenzene	10.995	120	178404	12.461	ppbv	99
65) tert-Butylbenzene	11.539	119	607057	12.865	ppbv	99
66) Benzyl Chloride	11.623	91	56239	12.827	ppbv	99
67) sec-Butylbenzene	11.775	105	896962	12.495	ppbv	100
69) p-Isopropyltoluene	11.934	119	726503	13.132	ppbv	99
70) n-Butylbenzene	12.286	91	766822	10.360	ppbv	100
71) 2-Chlorotoluene	10.908	91	522845	12.761	ppbv	99
72) 4-Ethyltoluene	11.131	105	585141	10.212	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	480708	12.818	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	555055	12.594	ppbv #	85
75) 1,3-Dichlorobenzene	11.613	146	315272	11.284	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	314779	11.710	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	310827	11.026	ppbv	100
78) Hexachloro-1,3-Butadiene	13.889	225	176944	9.828	ppbv	99
79) Naphthalene	13.520	128	452592	9.778	ppbv	100
80) Naphthalene,2-methyl-	14.465	142	115977	8.078	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	221727	9.972	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	98	0.00
2 T	Dichlorodifluoromethane	1.428	1.420	0.6	96	0.00
3	Chlorodifluoromethane	1.504	1.548	-2.9	102	0.00
4	Chloromethane	0.574	0.543	5.4	93	0.00
5 T	Vinyl Chloride	0.542	0.495	8.7	97	0.00
6 T	Bromomethane	0.188	0.181	3.7	93	0.00
7	Chloroethane	0.199	0.198	0.5	97	0.00
8 T	Dichlorotetrafluoroethane	1.133	1.112	1.9	95	0.00
9 T	Propene	0.549	0.619	-12.8	113	0.00
10 T	Heptane	1.361	1.624	-19.3	99	0.00
11 T	Trichlorofluoromethane	1.411	1.348	4.5	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.102	1.039	5.7	92	0.00
13	Ethanol	0.056	0.039#	30.4#	81	0.00
14 T	Bromoethene	0.393	0.365	7.1	92	0.00
15 T	Acetone	1.228	0.982	20.0	90	0.00
16 T	1,3-Butadiene	0.514	0.506	1.6	100	0.00
17	tert-Butyl alcohol	1.183	1.196	-1.1	100	0.00
18 T	1,1-Dichloroethene	0.483	0.468	3.1	94	0.00
19 T	Isopropyl Alcohol	0.659	0.633	3.9	96	0.00
20 T	Methylene Chloride	0.535	0.425	20.6	99	0.00
21 T	Allyl Chloride	0.833	0.815	2.2	97	0.00
22 T	trans-1,2-Dichloroethene	0.547	0.538	1.6	96	0.00
23 T	Vinyl Acetate	1.427	1.560	-9.3	103	0.00
24 T	1,1-Dichloroethane	1.080	1.065	1.4	95	0.00
25 T	Ethyl Acetate	2.623	2.915	-11.1	101	0.00
26 T	Hexane	1.126	1.301	-15.5	103	0.00
27 T	Carbon Disulfide	1.388	1.355	2.4	97	0.00
28 T	Methyl tert-Butyl Ether	0.619	0.596	3.7	95	0.00
29 T	Chloroform	1.840	1.899	-3.2	100	0.00
30 T	Cyclohexane	0.848	1.062	-25.2	103	0.00
31 T	cis-1,2-Dichloroethene	1.099	1.237	-12.6	106	0.00
32 T	1,1,1-Trichloroethane	1.721	1.766	-2.6	101	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
34 T	2-Butanone	0.648	0.699	-7.9	104	0.00
35 T	Carbon Tetrachloride	0.711	0.686	3.5	99	0.00
36 T	Benzene	0.872	0.959	-10.0	104	0.00
37 T	1,2-Dichloroethane	0.522	0.540	-3.4	103	0.00
38 T	Trichloroethene	0.395	0.404	-2.3	101	0.00
39 T	1,2-Dichloropropane	0.353	0.365	-3.4	102	0.00
40 T	1,4-Dioxane	0.125	0.134	-7.2	91	0.00
41 T	Tetrahydrofuran	0.321	0.385	-19.9	106	0.00
42 T	Bromodichloromethane	0.750	0.771	-2.8	101	0.00
43	Methyl Methacrylate	0.292	0.358	-22.6	104	0.00
44 T	2,2,4-Trimethylpentane	1.455	1.669	-14.7	99	0.00
45 T	t-1,3-Dichloropropene	0.308	0.369	-19.8	105	0.00
46 T	cis-1,3-Dichloropropene	0.425	0.501	-17.9	106	0.00
47 T	1,1,2-Trichloroethane	0.359	0.378	-5.3	101	0.00
48 T	Dibromochloromethane	0.563	0.587	-4.3	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	0.439	0.471	-7.3	100	0.00
50 T	4-Methyl-2-Pentanone	0.775	0.944	-21.8	101	0.00
51 T	2-Hexanone	0.576	0.737	-28.0	100	0.00
52 T	Tetrachloroethene	0.269	0.281	-4.5	101	0.00
53 T	Toluene	0.813	1.026	-26.2	103	0.00
54 T	1,2-Dibromoethane	0.462	0.508	-10.0	100	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
56	1,1,1,2-Tetrachloroethane	0.509	0.515	-1.2	97	0.00
57 T	Chlorobenzene	0.924	0.966	-4.5	99	0.00
58 T	Ethyl Benzene	1.288	1.661	-29.0	100	0.00
59 T	m/p-Xylene	1.089	1.387	-27.4	99	0.00
60 T	o-Xylene	1.082	1.403	-29.7	99	0.00
61 T	Styrene	0.403	0.572	-41.9#	102	0.00
62	Isopropylbenzene	1.577	1.974	-25.2	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.782	0.788	-0.8	97	0.00
64	n-propylbenzene	0.409	0.509	-24.4	98	0.00
65	tert-Butylbenzene	1.347	1.733	-28.7	98	0.00
66 T	Benzyl Chloride	0.125	0.161	-28.8	106	0.00
67	sec-Butylbenzene	2.050	2.561	-24.9	99	0.00
68 S	1-Bromo-4-Fluorobenzene	0.782	0.821	-5.0	97	0.00
69	p-Isopropyltoluene	1.580	2.075	-31.3#	100	0.00
70	n-Butylbenzene	1.661	2.190	-31.8#	97	0.00
71	2-Chlorotoluene	1.170	1.493	-27.6	98	0.00
72 T	4-Ethyltoluene	1.267	1.671	-31.9#	98	0.00
73 T	1,3,5-Trimethylbenzene	1.071	1.373	-28.2	97	0.00
74 T	1,2,4-Trimethylbenzene	1.258	1.585	-26.0	98	0.00
75 T	1,3-Dichlorobenzene	0.798	0.900	-12.8	99	0.00
76 T	1,4-Dichlorobenzene	0.768	0.899	-17.1	98	0.00
77 T	1,2-Dichlorobenzene	0.805	0.888	-10.3	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.514	0.505	1.8	96	0.00
79 T	Naphthalene	0.849	1.292	-52.2#	95	0.00
80 T	Naphthalene,2-methyl-	0.275	0.331	-20.4	87	0.00
81 T	1,2,4-Trichlorobenzene	0.479	0.633	-32.2#	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	98	0.00
2 T	Dichlorodifluoromethane	10.000	9.938	0.6	96	0.00
3	Chlorodifluoromethane	10.000	10.294	-2.9	102	0.00
4	Chloromethane	10.000	9.453	5.5	93	0.00
5 T	Vinyl Chloride	10.000	9.134	8.7	97	0.00
6 T	Bromomethane	10.000	9.593	4.1	93	0.00
7	Chloroethane	10.000	9.943	0.6	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.809	1.9	95	0.00
9 T	Propene	10.000	11.264	-12.6	113	0.00
10 T	Heptane	10.000	11.936	-19.4	99	0.00
11 T	Trichlorofluoromethane	10.000	9.551	4.5	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.428	5.7	92	0.00
13	Ethanol	10.000	6.961	30.4#	81	0.00
14 T	Bromoethene	10.000	9.303	7.0	92	0.00
15 T	Acetone	10.000	7.997	20.0	90	0.00
16 T	1,3-Butadiene	10.000	9.840	1.6	100	0.00
17	tert-Butyl alcohol	10.000	10.116	-1.2	100	0.00
18 T	1,1-Dichloroethene	10.000	9.708	2.9	94	0.00
19 T	Isopropyl Alcohol	10.000	9.607	3.9	96	0.00
20 T	Methylene Chloride	10.000	7.941	20.6	99	0.00
21 T	Allyl Chloride	10.000	9.783	2.2	97	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.842	1.6	96	0.00
23 T	Vinyl Acetate	10.000	10.931	-9.3	103	0.00
24 T	1,1-Dichloroethane	10.000	9.854	1.5	95	0.00
25 T	Ethyl Acetate	10.000	11.113	-11.1	101	0.00
26 T	Hexane	10.000	11.562	-15.6	103	0.00
27 T	Carbon Disulfide	10.000	9.762	2.4	97	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.628	3.7	95	0.00
29 T	Chloroform	10.000	10.322	-3.2	100	0.00
30 T	Cyclohexane	10.000	12.518	-25.2	103	0.00
31 T	cis-1,2-Dichloroethene	10.000	11.254	-12.5	106	0.00
32 T	1,1,1-Trichloroethane	10.000	10.257	-2.6	101	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	100	0.00
34 T	2-Butanone	10.000	10.777	-7.8	104	0.00
35 T	Carbon Tetrachloride	10.000	9.646	3.5	99	0.00
36 T	Benzene	10.000	10.998	-10.0	104	0.00
37 T	1,2-Dichloroethane	10.000	10.330	-3.3	103	0.00
38 T	Trichloroethene	10.000	10.227	-2.3	101	0.00
39 T	1,2-Dichloropropane	10.000	10.348	-3.5	102	0.00
40 T	1,4-Dioxane	10.000	10.678	-6.8	91	0.00
41 T	Tetrahydrofuran	10.000	12.000	-20.0	106	0.00
42 T	Bromodichloromethane	10.000	10.284	-2.8	101	0.00
43	Methyl Methacrylate	10.000	12.245	-22.4	104	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.472	-14.7	99	0.00
45 T	t-1,3-Dichloropropene	10.000	11.989	-19.9	105	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.808	-18.1	106	0.00
47 T	1,1,2-Trichloroethane	10.000	10.503	-5.0	101	0.00
48 T	Dibromochloromethane	10.000	10.426	-4.3	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042939.D
 Acq On : 18 Sep 2025 09:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 19 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 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	10.728	-7.3	100	0.00
50 T	4-Methyl-2-Pentanone	10.000	12.175	-21.8	101	0.00
51 T	2-Hexanone	10.000	12.811	-28.1	100	0.00
52 T	Tetrachloroethene	10.000	10.435	-4.4	101	0.00
53 T	Toluene	10.000	12.613	-26.1	103	0.00
54 T	1,2-Dibromoethane	10.000	10.975	-9.7	100	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.105	-1.1	97	0.00
57 T	Chlorobenzene	10.000	10.455	-4.6	99	0.00
58 T	Ethyl Benzene	10.000	12.894	-28.9	100	0.00
59 T	m/p-Xylene	20.000	25.483	-27.4	99	0.00
60 T	o-Xylene	10.000	12.961	-29.6	99	0.00
61 T	Styrene	10.000	10.204	-2.0	102	0.00
62	Isopropylbenzene	10.000	12.519	-25.2	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.076	-0.8	97	0.00
64	n-propylbenzene	10.000	12.461	-24.6	98	0.00
65	tert-Butylbenzene	10.000	12.865	-28.7	98	0.00
66 T	Benzyl Chloride	10.000	12.827	-28.3	106	0.00
67	sec-Butylbenzene	10.000	12.495	-24.9	99	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.498	-5.0	97	0.00
69	p-Isopropyltoluene	10.000	13.132	-31.3#	100	0.00
70	n-Butylbenzene	10.000	10.360	-3.6	97	0.00
71	2-Chlorotoluene	10.000	12.761	-27.6	98	0.00
72 T	4-Ethyltoluene	10.000	10.212	-2.1	98	0.00
73 T	1,3,5-Trimethylbenzene	10.000	12.818	-28.2	97	0.00
74 T	1,2,4-Trimethylbenzene	10.000	12.594	-25.9	98	0.00
75 T	1,3-Dichlorobenzene	10.000	11.284	-12.8	99	0.00
76 T	1,4-Dichlorobenzene	10.000	11.710	-17.1	98	0.00
77 T	1,2-Dichlorobenzene	10.000	11.026	-10.3	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.828	1.7	96	0.00
79 T	Naphthalene	10.000	9.778	2.2	95	0.00
80 T	Naphthalene,2-methyl-	10.000	8.078	19.2	87	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.972	0.3	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042940.D
 Acq On : 18 Sep 2025 11:01
 Operator : SY/MD
 Sample : VL0918ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABL01

Quant Time: Sep 19 01:22:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	148160	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	363124	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	306480	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	229711	9.589	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%

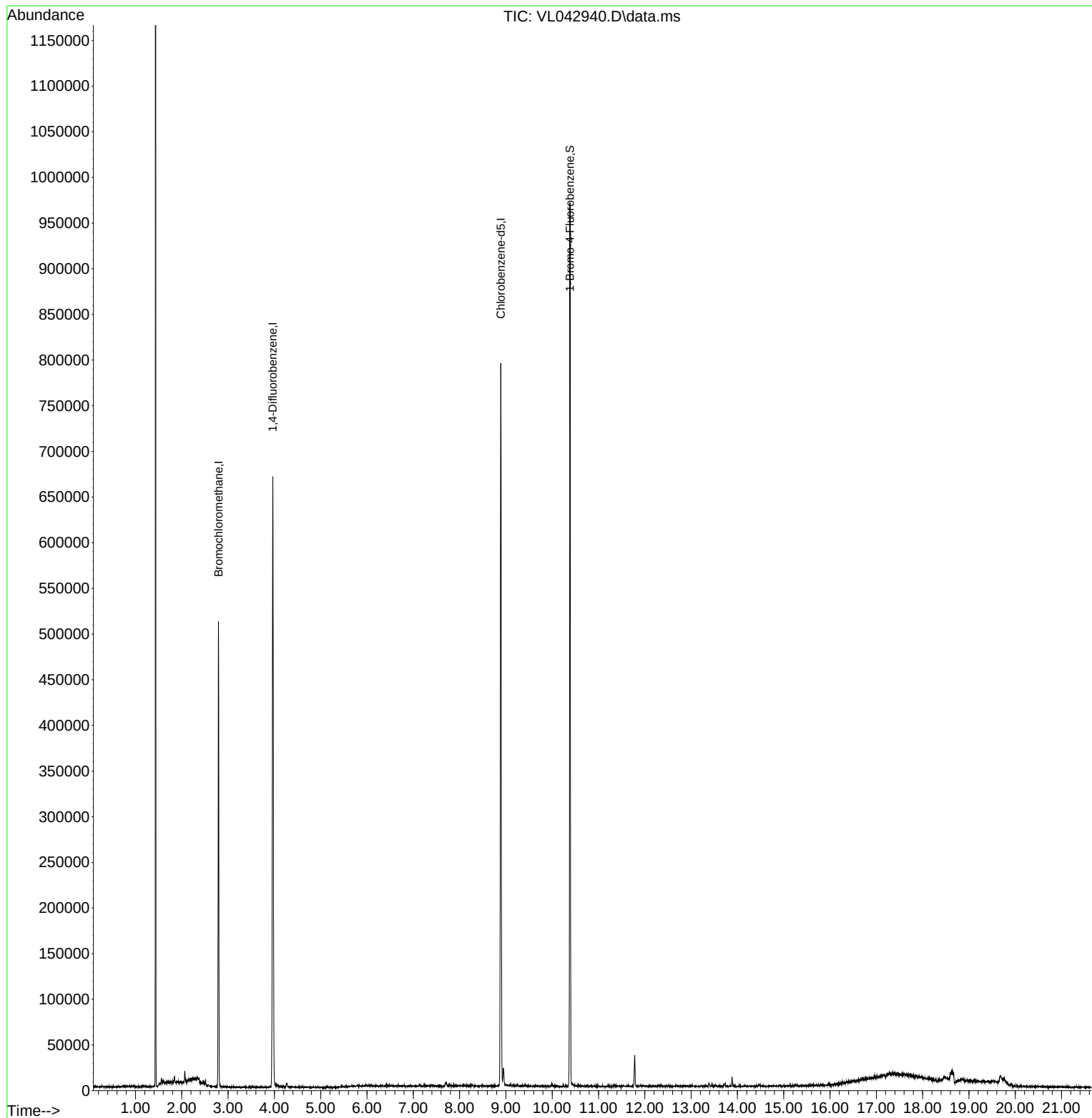
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
Data File : VL042940.D
Acq On : 18 Sep 2025 11:01
Operator : SY/MD
Sample : VL0918ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0918ABL01

Quant Time: Sep 19 01:22:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Sep 18 02:57:46 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042942.D
 Acq On : 18 Sep 2025 12:14
 Operator : SY/MD
 Sample : QC091125 CAN 10060
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC091125 CAN 10060

Quant Time: Sep 19 01:23:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	151587	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	376783	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	311904	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	236215	9.689	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%

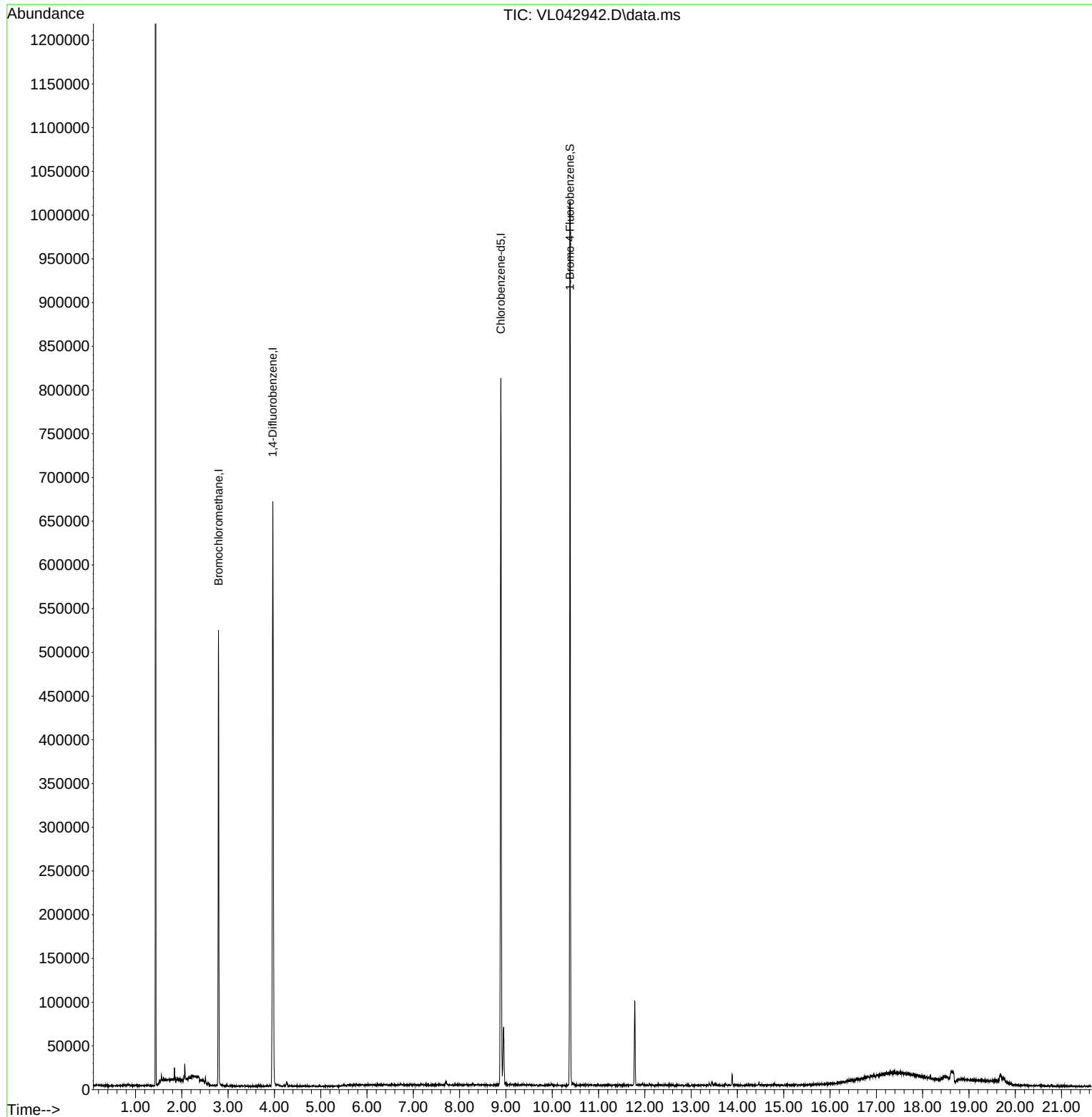
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
Data File : VL042942.D
Acq On : 18 Sep 2025 12:14
Operator : SY/MD
Sample : QC091125 CAN 10060
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC091125 CAN 10060

Quant Time: Sep 19 01:23:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Sep 18 02:57:46 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042943.D
 Acq On : 18 Sep 2025 12:49
 Operator : SY/MD
 Sample : VL0918ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS02

Quant Time: Sep 19 01:24:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Sep 18 02:57:46 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	157147	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	398112	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.889	117	342230	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.381	95	281987	10.542	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.400%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.499	85	221614	9.873	ppbv	98
3) Chlorodifluoromethane	1.477	51	237059	10.031	ppbv	100
4) Chloromethane	1.535	50	88001	9.755	ppbv	99
5) Vinyl Chloride	1.580	62	75659	8.890	ppbv	97
6) Bromomethane	1.668	94	28772	9.729	ppbv	93
7) Chloroethane	1.706	64	30707	9.796	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	173736	9.755	ppbv	99
9) Propene	1.483	41	87615	10.152	ppbv	99
10) Heptane	4.985	43	247851	11.590	ppbv	98
11) Trichlorofluoromethane	1.878	101	214280	9.663	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	167632	9.676	ppbv	100
13) Ethanol	1.723	45	7358	8.362	ppbv	95
14) Bromoethene	1.784	108	58670	9.506	ppbv	98
15) Acetone	1.836	43	164049	8.499	ppbv	100
16) 1,3-Butadiene	1.609	39	75881	9.398	ppbv	100
17) tert-Butyl alcohol	2.040	59	179502	9.658	ppbv	99
18) 1,1-Dichloroethene	2.037	96	75279	9.927	ppbv	94
19) Isopropyl Alcohol	1.888	45	99744	9.638	ppbv	100
20) Methylene Chloride	2.062	84	65464	7.790	ppbv	97
21) Allyl Chloride	2.098	41	125866	9.620	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	84718	9.856	ppbv	92
23) Vinyl Acetate	2.464	43	234952	10.476	ppbv	99
24) 1,1-Dichloroethane	2.412	63	167118	9.843	ppbv	99
25) Ethyl Acetate	2.836	43	445635	10.812	ppbv	100
26) Hexane	2.830	57	196952	11.134	ppbv	98
27) Carbon Disulfide	2.153	76	213020	9.764	ppbv	97
28) Methyl tert-Butyl Ether	2.441	73	92298	9.496	ppbv	99
29) Chloroform	2.849	83	291292	10.075	ppbv	96
30) Cyclohexane	3.862	84	156833	11.769	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	180628	10.459	ppbv	98
32) 1,1,1-Trichloroethane	3.370	97	268252	9.916	ppbv	99
34) 2-Butanone	2.558	43	275491	10.675	ppbv	99
35) Carbon Tetrachloride	3.765	117	278532	9.842	ppbv	99
36) Benzene	3.661	78	375346	10.809	ppbv	99
37) 1,2-Dichloroethane	3.221	62	218301	10.496	ppbv	99
38) Trichloroethene	4.551	130	165317	10.517	ppbv	97
39) 1,2-Dichloropropane	4.318	63	147865	10.536	ppbv	97
40) 1,4-Dioxane	4.584	88	57905	11.625	ppbv #	96
41) Tetrahydrofuran	3.056	42	150133	11.755	ppbv	100
42) Bromodichloromethane	4.493	83	311531	10.438	ppbv	97
43) Methyl Methacrylate	4.885	69	141275	12.151	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	676730	11.684	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	143251	11.685	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042943.D
 Acq On : 18 Sep 2025 12:49
 Operator : SY/MD
 Sample : VL0918ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS02

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 19 01:24:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.607	75	192317	11.379	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	147521	10.309	ppbv	95
48) Dibromochloromethane	7.390	129	236633	10.558	ppbv	99
49) Bromoform	9.487	173	190569	10.894	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	383141	12.417	ppbv	100
51) 2-Hexanone	7.442	43	301477	13.156	ppbv	99
52) Tetrachloroethene	8.231	164	111470	10.410	ppbv	95
53) Toluene	6.940	91	405706	12.529	ppbv	99
54) 1,2-Dibromoethane	7.659	107	203289	11.043	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.927	131	180415	10.348	ppbv	99
57) Chlorobenzene	8.927	112	333331	10.538	ppbv	98
58) Ethyl Benzene	9.361	91	575762	13.059	ppbv	99
59) m/p-Xylene	9.555	91	960501m	25.779	ppbv	
60) o-Xylene	9.970	91	482682	13.030	ppbv	99
61) Styrene	9.876	104	188516	9.850	ppbv	99
62) Isopropylbenzene	10.542	105	675382	12.516	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	277312	10.363	ppbv	98
64) n-propylbenzene	10.992	120	175243	12.526	ppbv	99
65) tert-Butylbenzene	11.536	119	602619	13.069	ppbv	100
66) Benzyl Chloride	11.617	91	53684	12.529	ppbv	98
67) sec-Butylbenzene	11.769	105	880638	12.553	ppbv	100
69) p-Isopropyltoluene	11.928	119	706403	13.066	ppbv	99
70) n-Butylbenzene	12.284	91	758319	10.480	ppbv	100
71) 2-Chlorotoluene	10.905	91	513816	12.833	ppbv	99
72) 4-Ethyltoluene	11.128	105	573658	10.243	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	476027	12.989	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	547542	12.713	ppbv	92
75) 1,3-Dichlorobenzene	11.611	146	311816	11.420	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	307014	11.688	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	305054	11.073	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	179681	10.213	ppbv	100
79) Naphthalene	13.514	128	461409	10.182	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	127799	9.012	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	219805	10.109	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091825\
 Data File : VL042943.D
 Acq On : 18 Sep 2025 12:49
 Operator : SY/MD
 Sample : VL0918ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0918ABS02

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/19/2025
 Supervised By : Mahesh Dadoda 09/24/2025

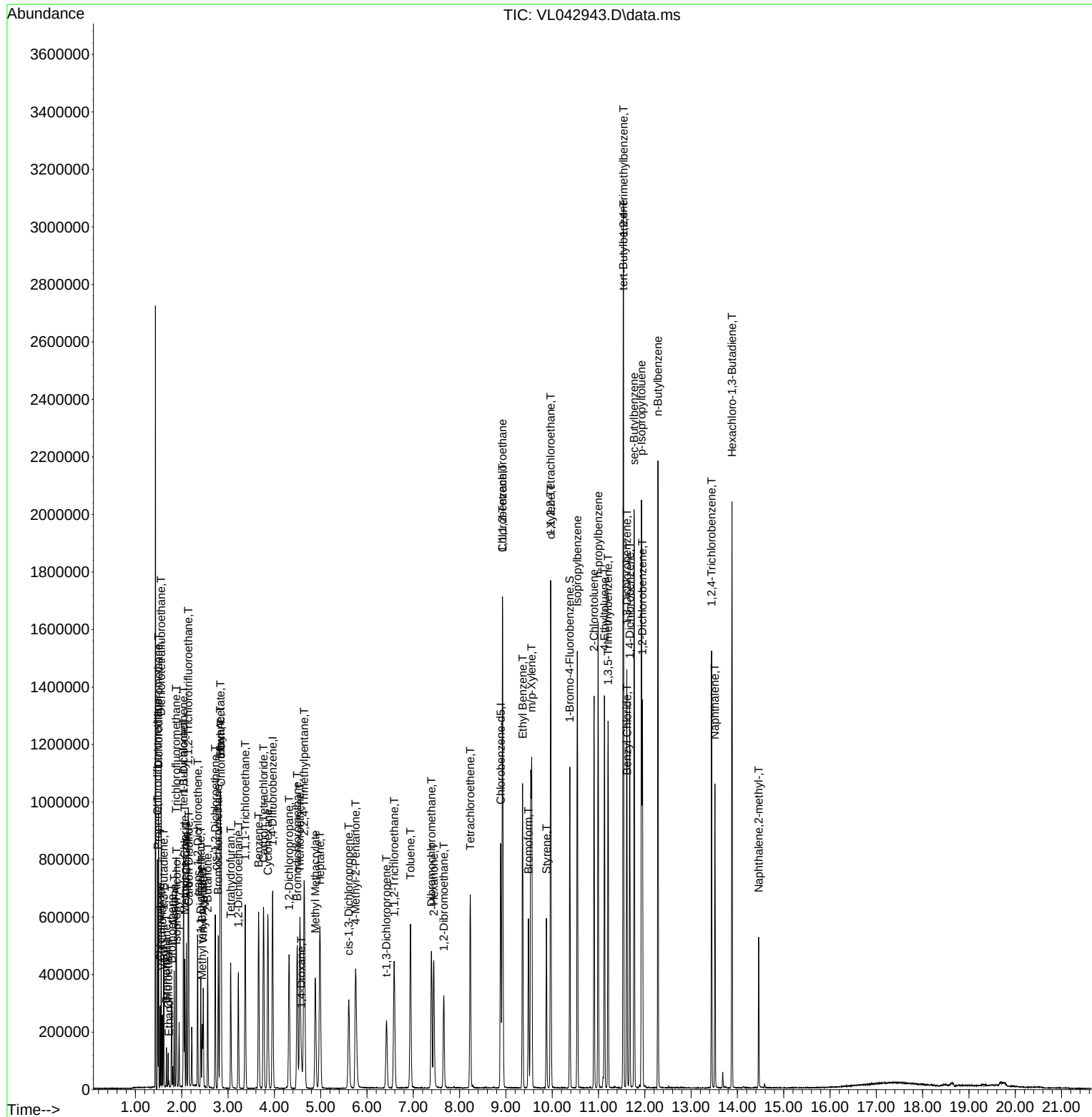
Quant Time: Sep 19 01:24:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091725AIR.M

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

QLast Update : Thu Sep 18 02:57:46 2025

Response via : Initial Calibration

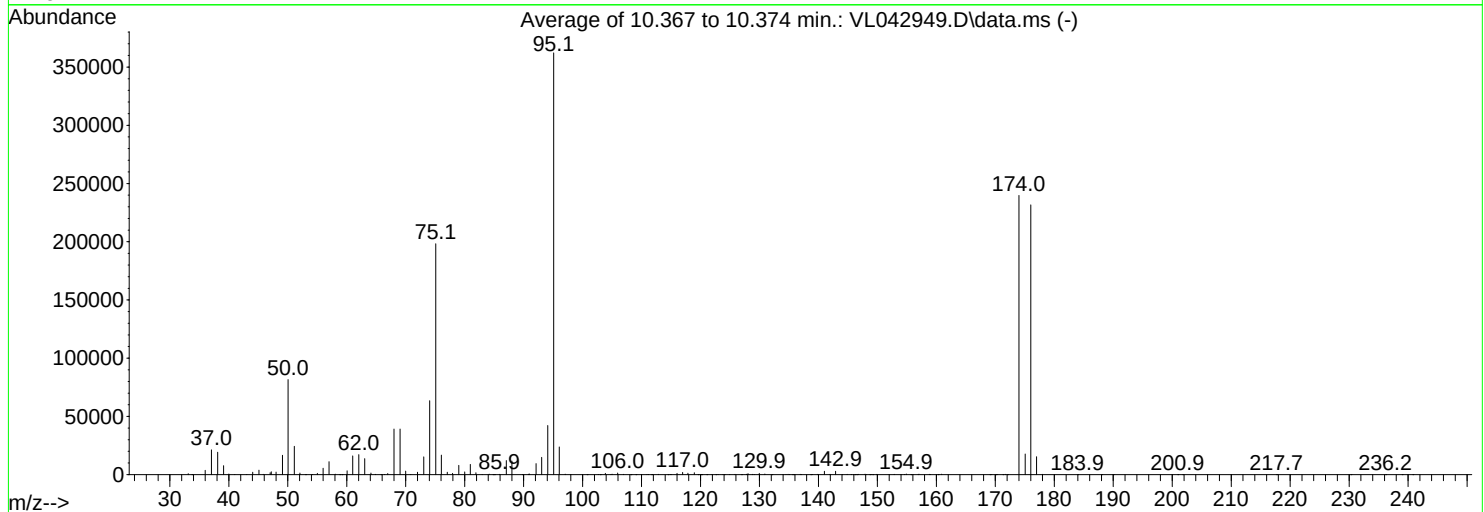
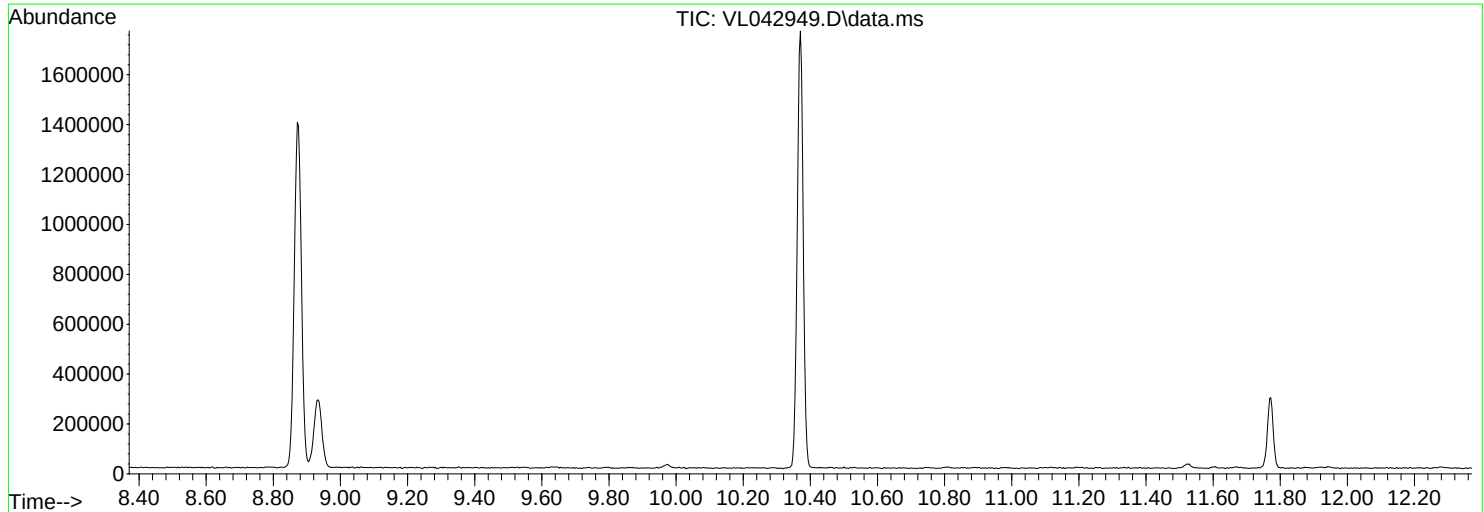


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042949.D
Acq On : 22 Sep 2025 08:55
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3156

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.5	81605	PASS
75	95	30	66	54.7	198315	PASS
95	95	100	100	100.0	362228	PASS
96	95	5	9	6.6	23817	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	66.2	239765	PASS
175	174	4	9	7.4	17693	PASS
176	174	93	101	96.6	231701	PASS
177	176	5	9	6.6	15367	PASS

Average of 10.367 to 10.374 min.: VL042949.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	843	45.85	253	56.00	5545	65.80	3
33.75	52	47.00	1694	57.00	11198	66.40	12
36.00	3748	47.20	2450	58.05	458	66.95	97
37.05	21251	48.00	2247	58.80	12	68.00	3914
38.10	19194	49.10	16630	59.20	54	69.05	39122
39.10	7706	50.05	81605	60.05	3370	70.00	3041
40.00	611	51.10	24305	61.00	16140	70.85	223
41.00	212	52.05	1353	62.05	17219	72.00	2035
43.05	136	53.00	72	63.05	13691	73.05	15293
44.05	2095	54.20	86	64.10	1359	74.05	63454
45.10	3798	55.00	1059	64.85	245	75.10	198315

Average of 10.367 to 10.374 min.: VL042949.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	16800	85.90	337	97.05	420	109.05	56
77.05	2059	87.05	12149	98.00	81	110.00	192
77.95	1179	88.00	11664	100.75	61	110.90	139
79.00	8035	89.80	31	102.65	97	111.15	198
80.00	2335	90.80	359	103.00	49	111.70	49
80.95	8798	91.00	622	103.85	1171	111.85	96
81.90	1684	92.10	9517	104.80	150	112.85	303
82.95	138	93.05	14816	105.00	378	114.50	70
84.15	388	94.10	42269	105.95	1346	114.90	157
84.80	17	95.10	362228	106.95	255	115.05	161
85.05	75	96.05	23817	108.20	73	116.00	1147

Average of 10.367 to 10.374 min.: VL042949.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.95	1950	124.00	19	132.10	39	139.90	323
117.85	1188	124.95	84	134.00	140	141.00	2899
118.95	1697	125.85	229	134.50	114	141.95	349
119.60	51	126.95	77	134.85	336	142.90	2933
120.00	53	127.80	315	135.10	170	144.05	151
120.20	61	127.90	464	135.60	42	144.85	287
121.05	57	128.05	783	135.85	51	145.60	121
121.95	99	128.80	273	136.90	259	145.95	217
122.60	27	129.10	152	137.10	199	146.20	56
123.00	155	129.95	1180	138.70	60	146.50	40
123.80	97	130.90	521	139.00	86	146.80	278

Average of 10.367 to 10.374 min.: VL042949.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.90	407	155.70	50	170.40	165	190.00	32
148.10	181	156.05	156	171.30	71	200.95	53
148.70	34	156.90	168	171.75	267	201.80	37
148.95	87	157.05	367	172.05	48	217.70	32
149.20	38	158.80	225	174.00	239765	230.30	17
149.90	259	159.00	184	175.05	17693	236.20	53
152.00	157	160.30	45	176.00	231701	239.00	24
152.85	262	160.90	377	177.00	15367	240.80	20
154.00	172	169.10	53	178.00	351		
154.60	207	169.40	85	183.95	49		
154.90	569	170.10	37	188.00	21		

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

Method File : VL092225AIR.M

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

Last Update : Tue Sep 23 02:39:16 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042955.D 0.1 =VL042954.D 0.5 =VL042953.D 1 =VL042952.D 2 =VL042951.D 10 =VL042950.D 15 =VL042956.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.391	1.452	1.401	1.248	1.232	1.345	7.33
3) Chlorodifluoro...			1.782	1.821	1.710	1.574	1.494	1.676	8.27
4) Chloromethane			0.693	0.622	0.624	0.560	0.545	0.609	9.66
5) T Vinyl Chloride	0.729	0.562	0.529	0.567	0.524	0.470	0.472	0.550	15.95
6) T Bromomethane			0.224	0.215	0.200	0.166	0.167	0.194	13.76
7) Chloroethane			0.234	0.238	0.212	0.196	0.189	0.214	10.33
8) T Dichlorotetra...			1.227	1.239	1.180	1.047	1.047	1.148	8.24
9) T Propene			0.784	0.787	0.762	0.684	0.631	0.729	9.47
10) T Heptane			2.102	2.060	1.961	1.870	1.738	1.946	7.57
11) T Trichlorofluor...			1.354	1.376	1.346	1.199	1.210	1.297	6.58
12) T 1,1,2-Trichlor...			1.130	1.117	1.068	0.963	0.973	1.050	7.48
13) Ethanol			0.076	0.090	0.088	0.053	0.047	0.071	27.75
14) T Bromoethene			0.430	0.417	0.415	0.362	0.362	0.397	8.23
15) T Acetone			1.490	1.552	1.475	0.993	1.002	1.302	21.48
16) T 1,3-Butadiene			0.751	0.675	0.607	0.520	0.519	0.614	16.41
17) tert-Butyl alc...			1.587	1.544	1.398	1.351	1.262	1.429	9.47
18) T 1,1-Dichloroet...			0.549	0.503	0.485	0.446	0.447	0.486	8.86
19) T Isopropyl Alcohol			0.898	0.813	0.818	0.718	0.667	0.783	11.61
20) T Methylene Chlo...			0.832	0.617	0.510	0.388	0.380	0.545	34.40
21) T Allyl Chloride			0.904	0.971	0.966	0.857	0.837	0.907	6.72
22) T trans-1,2-Dich...			0.589	0.612	0.556	0.507	0.499	0.552	8.98
23) T Vinyl Acetate			2.208	1.897	1.888	1.594	1.716	1.861	12.45
24) T 1,1-Dichloroet...			1.147	1.172	1.109	0.993	0.996	1.083	7.76
25) T Ethyl Acetate			3.405	3.494	3.443	3.153	2.966	3.292	6.83
26) T Hexane			1.621	1.614	1.553	1.398	1.317	1.501	9.08
27) T Carbon Disulfide			1.395	1.436	1.396	1.271	1.232	1.346	6.59
28) T Methyl tert-Bu...			0.953	0.773	0.742	0.638	0.794	0.780	14.61
29) T Chloroform			2.078	2.042	2.038	1.848	1.804	1.962	6.42
30) T Cyclohexane			1.312	1.333	1.280	1.193	1.154	1.255	6.19
31) T cis-1,2-Dichlo...			1.443	1.464	1.465	1.357	1.300	1.406	5.26
32) T 1,1,1-Trichlor...	2.724	2.087	2.017	2.164	2.071	1.902	1.868	2.119	13.51

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.744	0.731	0.741	0.655	0.633	0.701	7.52
35) T Carbon Tetrach...	0.734	0.616	0.660	0.665	0.657	0.610	0.617	0.651	6.63
36) T Benzene			0.974	0.970	0.972	0.898	0.881	0.939	4.84
37) T 1,2-Dichloroet...			0.502	0.517	0.507	0.470	0.473	0.494	4.28
38) T Trichloroethene	0.527	0.495	0.481	0.467	0.452	0.426	0.419	0.467	8.20
39) T 1,2-Dichloropr...			0.344	0.361	0.356	0.327	0.325	0.343	4.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL092225AIR.M										
40)	T	1,4-Dioxane		0.173	0.172	0.163	0.148	0.141	0.159	8.95
41)	T	Tetrahydrofuran		0.427	0.407	0.419	0.389	0.372	0.403	5.57
42)	T	Bromodichlorom...		0.689	0.699	0.702	0.681	0.667	0.688	2.07
43)		Methyl Methacr...		0.406	0.396	0.396	0.368	0.355	0.384	5.61
44)	T	2,2,4-Trimethy...		1.705	1.660	1.690	1.563	1.492	1.622	5.64
45)	T	t-1,3-Dichloro...		0.403	0.414	0.421	0.409	0.402	0.410	1.99
46)	T	cis-1,3-Dichlo...		0.522	0.528	0.537	0.523	0.501	0.522	2.55
47)	T	1,1,2-Trichlor...		0.382	0.377	0.371	0.344	0.336	0.362	5.70
48)	T	Dibromochlorom...		0.572	0.586	0.600	0.571	0.568	0.580	2.36
49)	T	Bromoform		0.477	0.507	0.534	0.508	0.495	0.504	4.18
50)	T	4-Methyl-2-Pen...		0.928	0.949	0.988	0.934	0.897	0.939	3.51
51)	T	2-Hexanone		0.719	0.774	0.769	0.751	0.730	0.749	3.19
52)	T	Tetrachloroethene	0.436 0.404	0.356	0.355	0.351	0.325	0.315	0.363	11.76
53)	T	Toluene		1.155	1.137	1.156	1.078	1.031	1.111	4.95
54)	T	1,2-Dibromoethane	0.520	0.520	0.520	0.525	0.490	0.485	0.510	3.47
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.497	0.486	0.505	0.458	0.447	0.479	5.28
57)	T	Chlorobenzene		0.968	0.978	0.944	0.853	0.822	0.913	7.75
58)	T	Ethyl Benzene		1.657	1.715	1.737	1.570	1.531	1.642	5.45
59)	T	m/p-Xylene		1.332	1.365	1.361	1.225	1.190	1.295	6.29
60)	T	o-Xylene		1.335	1.379	1.359	1.221	1.176	1.294	6.96
61)	T	Styrene		0.605	0.619	0.648	0.602	0.585	0.612	3.89
62)		Isopropylbenzene		2.010	2.059	2.028	1.803	1.744	1.929	7.49
63)	T	1,1,2,2-Tetrac...	0.806 0.722	0.688	0.675	0.673	0.610	0.586	0.680	10.66
64)		n-propylbenzene		0.531	0.529	0.523	0.473	0.463	0.504	6.51
65)		tert-Butylbenzene		1.836	1.839	1.842	1.557	1.503	1.715	9.91
66)	T	Benzyl Chloride		0.170	0.173	0.196	0.195	0.165	0.180	8.14
67)		sec-Butylbenzene		2.508	2.559	2.579	2.191	2.115	2.390	9.19
68)	S	1-Bromo-4-Fluo...	0.736 0.738	0.749	0.743	0.747	0.763	0.750	0.746	1.20
69)		p-Isopropyltol...		2.105	2.168	2.179	1.856	1.788	2.019	9.11
70)		n-Butylbenzene		1.929	2.108	2.136	1.881	1.803	1.971	7.36
71)		2-Chlorotoluene		1.543	1.504	1.528	1.373	1.333	1.456	6.61
72)	T	4-Ethyltoluene		1.715	1.686	1.703	1.523	1.476	1.621	6.92
73)	T	1,3,5-Trimethy...		1.333	1.346	1.399	1.263	1.231	1.314	5.12
74)	T	1,2,4-Trimethy...		1.534	1.522	1.558	1.349	1.294	1.451	8.34
75)	T	1,3-Dichlorobe...		0.918	0.954	0.956	0.845	0.827	0.900	6.72
76)	T	1,4-Dichlorobe...		0.922	0.914	0.959	0.845	0.829	0.894	6.12
77)	T	1,2-Dichlorobe...		0.874	0.914	0.918	0.796	0.780	0.856	7.61
78)	T	Hexachloro-1,3...		0.755	0.742	0.728	0.575	0.549	0.670	14.79
79)	T	Naphthalene	1.093	1.102	1.320	1.474	1.373	1.339	1.283	11.96
80)	T	Naphthalene,2-...		0.384	0.365	0.428	0.402	0.404	0.396	5.94
81)	T	1,2,4-Trichlor...		0.557	0.691	0.777	0.718	0.689	0.686	11.73

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	170899	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	526679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	486724	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 371195 10.217 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	213351	9.282	ppbv	100
3) Chlorodifluoromethane	1.473	51	269073	9.392	ppbv	100
4) Chloromethane	1.531	50	95679	9.196	ppbv	100
5) Vinyl Chloride	1.577	62	80350	8.543	ppbv	100
6) Bromomethane	1.667	94	28301	8.530	ppbv	100
7) Chloroethane	1.703	64	33446	9.158	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	178992	9.122	ppbv	100
9) Propene	1.483	41	116849	9.376	ppbv	100
10) Heptane	4.969	43	319577	9.560	ppbv	100
11) Trichlorofluoromethane	1.874	101	204850	9.243	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	164598	9.171	ppbv	100
13) Ethanol	1.719	45	9094	7.613	ppbv	100
14) Bromoethene	1.780	108	61824	9.111	ppbv	100
15) Acetone	1.832	43	169676	7.623	ppbv	100
16) 1,3-Butadiene	1.606	39	88812	8.459	ppbv	100
17) tert-Butyl alcohol	2.036	59	230853	9.456	ppbv	100
18) 1,1-Dichloroethene	2.030	96	76184	9.170	ppbv	100
19) Isopropyl Alcohol	1.884	45	122753	9.174	ppbv	100
20) Methylene Chloride	2.059	84	66314	9.992	ppbv	100
21) Allyl Chloride	2.094	41	146473	9.449	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	86580	9.172	ppbv	100
23) Vinyl Acetate	2.460	43	272378	8.566	ppbv	100
24) 1,1-Dichloroethane	2.405	63	169721	9.168	ppbv	100
25) Ethyl Acetate	2.829	43	538761	9.577	ppbv	100
26) Hexane	2.823	57	238896	9.316	ppbv	100
27) Carbon Disulfide	2.146	76	217259	9.446	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	108987	8.176	ppbv	100
29) Chloroform	2.845	83	315779	9.418	ppbv	100
30) Cyclohexane	3.852	84	203803	9.506	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	231907	9.654	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	325118	8.947	ppbv	100
34) 2-Butanone	2.551	43	344874	9.343	ppbv	100
35) Carbon Tetrachloride	3.755	117	321267	9.480	ppbv	100
36) Benzene	3.651	78	472855	9.561	ppbv	100
37) 1,2-Dichloroethane	3.214	62	247754	9.525	ppbv	100
38) Trichloroethene	4.541	130	224516	9.134	ppbv	100
39) 1,2-Dichloropropane	4.305	63	172059	9.523	ppbv	100
40) 1,4-Dioxane	4.570	88	77889	9.283	ppbv #	100
41) Tetrahydrofuran	3.046	42	204724	9.649	ppbv	100
42) Bromodichloromethane	4.480	83	358858	9.903	ppbv	100
43) Methyl Methacrylate	4.871	69	193676	9.646	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	823031	9.631	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	215233	9.969	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042950.D
 Acq On : 22 Sep 2025 09:39
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:08:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	275210	10.006	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	181329	9.498	ppbv	100
48) Dibromochloromethane	7.383	129	300497	9.845	ppbv	100
49) Bromoform	9.480	173	267814	10.087	ppbv	100
50) 4-Methyl-2-Pentanone	5.736	43	492068	9.920	ppbv	100
51) 2-Hexanone	7.428	43	395744	10.036	ppbv #	100
52) Tetrachloroethene	8.218	164	171294	8.951	ppbv	100
53) Toluene	6.923	91	567779	9.699	ppbv	100
54) 1,2-Dibromoethane	7.645	107	257904	9.605	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.921	131	223066	9.575	ppbv	100
57) Chlorobenzene	8.917	112	415238	9.345	ppbv	100
58) Ethyl Benzene	9.348	91	764249	9.562	ppbv	100
59) m/p-Xylene	9.526	91	1192566m	18.913	ppbv	
60) o-Xylene	9.959	91	594329	9.437	ppbv	100
61) Styrene	9.866	104	293111	9.840	ppbv	100
62) Isopropylbenzene	10.536	105	877401	9.347	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	296678	8.963	ppbv	100
64) n-propylbenzene	10.985	120	230432	9.394	ppbv	100
65) tert-Butylbenzene	11.526	119	757958	9.078	ppbv	100
66) Benzyl Chloride	11.610	91	94982	10.842	ppbv	100
67) sec-Butylbenzene	11.762	105	1066409	9.166	ppbv	100
69) p-Isopropyltoluene	11.921	119	903376	9.192	ppbv	100
70) n-Butylbenzene	12.277	91	915624	9.543	ppbv	100
71) 2-Chlorotoluene	10.895	91	668239	9.428	ppbv	100
72) 4-Ethyltoluene	11.121	105	741298	9.398	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	614632	9.608	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	656535	9.294	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	411473	9.392	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	411464	9.456	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	387219	9.289	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	280080	8.591	ppbv	100
79) Naphthalene	13.510	128	668171	10.696	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	195695	10.142	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	349393	10.461	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Sep 23 02:09:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	170758	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	524389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	483821	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	361586	10.012	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.100%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	47851	2.083	ppbv	97
3) Chlorodifluoromethane	1.476	51	58395	2.040	ppbv	95
4) Chloromethane	1.534	50	21326	2.051	ppbv	99
5) Vinyl Chloride	1.580	62	17892	1.904	ppbv	98
6) Bromomethane	1.667	94	6816	2.056	ppbv	96
7) Chloroethane	1.706	64	7250	1.987	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	40306	2.056	ppbv	98
9) Propene	1.483	41	26007	2.088	ppbv	99
10) Heptane	4.978	43	66978	2.005	ppbv	99
11) Trichlorofluoromethane	1.877	101	45973	2.076	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.140	101	36490	2.035	ppbv	98
13) Ethanol	1.722	45	2989	2.504	ppbv	93
14) Bromoethene	1.784	108	14189	2.093	ppbv #	96
15) Acetone	1.835	43	50357	2.264	ppbv	99
16) 1,3-Butadiene	1.609	39	20729	1.976	ppbv	94
17) tert-Butyl alcohol	2.042	59	47749	1.957	ppbv #	93
18) 1,1-Dichloroethene	2.036	96	16572	1.996	ppbv	95
19) Isopropyl Alcohol	1.887	45	27930	2.089	ppbv #	79
20) Methylene Chloride	2.062	84	17413	2.097	ppbv #	84
21) Allyl Chloride	2.098	41	32985	2.130	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	18991	2.013	ppbv	98
23) Vinyl Acetate	2.463	43	64479	2.029	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	37865	2.047	ppbv	99
25) Ethyl Acetate	2.835	43	117567	2.092	ppbv	99
26) Hexane	2.826	57	53034	2.070	ppbv	98
27) Carbon Disulfide	2.153	76	47660	2.074	ppbv #	60
28) Methyl tert-Butyl Ether	2.441	73	25348	1.903	ppbv	92
29) Chloroform	2.848	83	69599	2.077	ppbv	96
30) Cyclohexane	3.855	84	43725	2.041	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	50019	2.084	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	70729	1.948	ppbv	97
34) 2-Butanone	2.557	43	77689	2.114	ppbv	98
35) Carbon Tetrachloride	3.761	117	68858	2.041	ppbv	95
36) Benzene	3.658	78	101901	2.069	ppbv	97
37) 1,2-Dichloroethane	3.217	62	53130	2.052	ppbv	98
38) Trichloroethene	4.548	130	47424	1.938	ppbv	94
39) 1,2-Dichloropropane	4.308	63	37381m	2.078	ppbv	
40) 1,4-Dioxane	4.586	88	17074m	2.044	ppbv	
41) Tetrahydrofuran	3.056	42	43962	2.081	ppbv	98
42) Bromodichloromethane	4.486	83	73675	2.042	ppbv	98
43) Methyl Methacrylate	4.881	69	41527	2.077	ppbv	99
44) 2,2,4-Trimethylpentane	4.638	57	177242	2.083	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	44171	2.055	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042951.D
 Acq On : 22 Sep 2025 10:14
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:09:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	56335	2.057	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	38961m	2.050	ppbv	
48) Dibromochloromethane	7.383	129	62968	2.072	ppbv	98
49) Bromoform	9.480	173	56021	2.119	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	103605m	2.098	ppbv	
51) 2-Hexanone	7.438	43	80620	2.053	ppbv	99
52) Tetrachloroethene	8.224	164	36853	1.934	ppbv	94
53) Toluene	6.933	91	121268	2.081	ppbv	100
54) 1,2-Dibromoethane	7.652	107	55022	2.058	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	48901	2.112	ppbv	98
57) Chlorobenzene	8.924	112	91325	2.068	ppbv	94
58) Ethyl Benzene	9.354	91	168063	2.115	ppbv	99
59) m/p-Xylene	9.532	91	263362m	4.202	ppbv	
60) o-Xylene	9.963	91	131507	2.101	ppbv	98
61) Styrene	9.869	104	62748	2.119	ppbv	98
62) Isopropylbenzene	10.539	105	196198	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	65089	1.978	ppbv	98
64) n-propylbenzene	10.985	120	50569	2.074	ppbv	93
65) tert-Butylbenzene	11.529	119	178218	2.147	ppbv	98
66) Benzyl Chloride	11.613	91	18992	2.181	ppbv	98
67) sec-Butylbenzene	11.765	105	249510	2.158	ppbv	100
69) p-Isopropyltoluene	11.924	119	210808	2.158	ppbv	97
70) n-Butylbenzene	12.280	91	206691	2.167	ppbv	100
71) 2-Chlorotoluene	10.898	91	147901	2.099	ppbv	100
72) 4-Ethyltoluene	11.124	105	164770	2.102	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	135344	2.128	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	150772	2.147	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	92487	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	92794	2.145	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	88825	2.144	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	70481	2.175	ppbv	99
79) Naphthalene	13.510	128	142653	2.297	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	41369	2.157	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	75139	2.263	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Sep 23 02:10:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	162797	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	511767	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	469265	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	348878	9.960	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	23644	1.080	ppbv	97
3) Chlorodifluoromethane	1.476	51	29646	1.086	ppbv	99
4) Chloromethane	1.531	50	10120	1.021	ppbv	97
5) Vinyl Chloride	1.580	62	9228	1.030	ppbv	99
6) Bromomethane	1.667	94	3493	1.105	ppbv	96
7) Chloroethane	1.703	64	3872	1.113	ppbv #	81
8) Dichlorotetrafluoroethane	1.554	85	20172	1.079	ppbv	97
9) Propene	1.482	41	12808	1.079	ppbv	92
10) Heptane	4.972	43	33540m	1.053	ppbv	
11) Trichlorofluoromethane	1.874	101	22397	1.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	18180	1.063	ppbv	99
13) Ethanol	1.719	45	1463	1.286	ppbv #	33
14) Bromoethene	1.780	108	6783	1.049	ppbv #	87
15) Acetone	1.832	43	25273	1.192	ppbv	99
16) 1,3-Butadiene	1.609	39	10993	1.099	ppbv	88
17) tert-Butyl alcohol	2.039	59	25141	1.081	ppbv #	88
18) 1,1-Dichloroethene	2.033	96	8192	1.035	ppbv	96
19) Isopropyl Alcohol	1.884	45	13241	1.039	ppbv #	41
20) Methylene Chloride	2.059	84	10045	0.985	ppbv	97
21) Allyl Chloride	2.094	41	15801	1.070	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	9960	1.108	ppbv	96
23) Vinyl Acetate	2.457	43	30884	1.020	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	19077	1.082	ppbv	99
25) Ethyl Acetate	2.832	43	56877	1.061	ppbv	97
26) Hexane	2.822	57	26276	1.076	ppbv	96
27) Carbon Disulfide	2.149	76	23373	1.067	ppbv #	32
28) Methyl tert-Butyl Ether	2.441	73	12580	0.991	ppbv #	86
29) Chloroform	2.842	83	33240	1.041	ppbv	99
30) Cyclohexane	3.855	84	21707	1.063	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	23828	1.041	ppbv	96
32) 1,1,1-Trichloroethane	3.360	97	35233	1.018	ppbv	97
34) 2-Butanone	2.554	43	37431	1.044	ppbv	97
35) Carbon Tetrachloride	3.758	117	34016	1.033	ppbv	96
36) Benzene	3.651	78	49652	1.033	ppbv	100
37) 1,2-Dichloroethane	3.214	62	26482	1.048	ppbv	98
38) Trichloroethene	4.538	130	23906	1.001	ppbv	98
39) 1,2-Dichloropropane	4.311	63	18493m	1.053	ppbv	
40) 1,4-Dioxane	4.583	88	8804m	1.080	ppbv	
41) Tetrahydrofuran	3.055	42	20845	1.011	ppbv	98
42) Bromodichloromethane	4.480	83	35768m	1.016	ppbv	
43) Methyl Methacrylate	4.871	69	20289	1.040	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	84970	1.023	ppbv	96
45) t-1,3-Dichloropropene	6.402	75	21210m	1.011	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042952.D
 Acq On : 22 Sep 2025 10:48
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:10:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	27025m	1.011	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	19311	1.041	ppbv	96
48) Dibromochloromethane	7.383	129	30015	1.012	ppbv	99
49) Bromoform	9.477	173	25929	1.005	ppbv	98
50) 4-Methyl-2-Pentanone	5.748	43	48546	1.007	ppbv	98
51) 2-Hexanone	7.431	43	39627	1.034	ppbv #	99
52) Tetrachloroethene	8.218	164	18188	0.978	ppbv	97
53) Toluene	6.926	91	58200	1.023	ppbv	100
54) 1,2-Dibromoethane	7.645	107	26608	1.020	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.920	131	22802	1.015	ppbv	94
57) Chlorobenzene	8.914	112	45873	1.071	ppbv	98
58) Ethyl Benzene	9.351	91	80473	1.044	ppbv	97
59) m/p-Xylene	9.529	91	128139m	2.108	ppbv	
60) o-Xylene	9.959	91	64703	1.066	ppbv	99
61) Styrene	9.869	104	29061	1.012	ppbv	98
62) Isopropylbenzene	10.535	105	96621	1.068	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	31695	0.993	ppbv	96
64) n-propylbenzene	10.985	120	24820	1.049	ppbv	98
65) tert-Butylbenzene	11.526	119	86303	1.072	ppbv	99
66) Benzyl Chloride	11.610	91	8140	0.964	ppbv	100
67) sec-Butylbenzene	11.762	105	120070	1.070	ppbv	100
69) p-Isopropyltoluene	11.921	119	101749	1.074	ppbv	99
70) n-Butylbenzene	12.277	91	98908	1.069	ppbv	99
71) 2-Chlorotoluene	10.895	91	70577	1.033	ppbv	98
72) 4-Ethyltoluene	11.121	105	79095	1.040	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	63174	1.024	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	71411	1.049	ppbv	95
75) 1,3-Dichlorobenzene	11.603	146	44769	1.060	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	42879	1.022	ppbv	97
77) 1,2-Dichlorobenzene	11.940	146	42911	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	34798	1.107	ppbv	99
79) Naphthalene	13.510	128	61925	1.028	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	17116	0.920	ppbv	97
81) 1,2,4-Trichlorobenzene	13.435	180	32411	1.007	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 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 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165435	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	509306	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	464091	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 347374 10.027 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11508	0.517	ppbv	96
3) Chlorodifluoromethane	1.476	51	14744	0.532	ppbv #	90
4) Chloromethane	1.534	50	5729	0.569	ppbv	97
5) Vinyl Chloride	1.580	62	4373	0.480	ppbv	93
6) Bromomethane	1.667	94	1850	0.576	ppbv	100
7) Chloroethane	1.703	64	1936	0.548	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	10149	0.534	ppbv	96
9) Propene	1.483	41	6482	0.537	ppbv	94
10) Heptane	4.978	43	17388m	0.537	ppbv	
11) Trichlorofluoromethane	1.877	101	11200	0.522	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	9346	0.538	ppbv	100
13) Ethanol	1.719	45	629m	0.544	ppbv	
14) Bromoethene	1.784	108	3553	0.541	ppbv #	84
15) Acetone	1.835	43	12326	0.572	ppbv #	86
16) 1,3-Butadiene	1.609	39	6215	0.611	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13128	0.555	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4543	0.565	ppbv	93
19) Isopropyl Alcohol	1.887	45	7431	0.574	ppbv #	46
20) Methylene Chloride	2.062	84	6881	0.430	ppbv	87
21) Allyl Chloride	2.098	41	7481	0.499	ppbv #	69
22) trans-1,2-Dichloroethene	2.337	96	4869m	0.533	ppbv	
23) Vinyl Acetate	2.460	43	18264	0.593	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9484	0.529	ppbv #	98
25) Ethyl Acetate	2.836	43	28162	0.517	ppbv #	95
26) Hexane	2.823	57	13406	0.540	ppbv	98
27) Carbon Disulfide	2.149	76	11535	0.518	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	7886	0.611	ppbv #	65
29) Chloroform	2.845	83	17188	0.530	ppbv	100
30) Cyclohexane	3.855	84	10856	0.523	ppbv	93
31) cis-1,2-Dichloroethene	2.719	61	11939	0.513	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	16684	0.474	ppbv	96
34) 2-Butanone	2.557	43	18948	0.531	ppbv	96
35) Carbon Tetrachloride	3.761	117	16799	0.513	ppbv	94
36) Benzene	3.654	78	24807	0.519	ppbv #	95
37) 1,2-Dichloroethane	3.217	62	12788	0.508	ppbv	100
38) Trichloroethene	4.544	130	12243	0.515	ppbv #	88
39) 1,2-Dichloropropane	4.315	63	8772	0.502	ppbv #	86
40) 1,4-Dioxane	4.599	88	4405m	0.543	ppbv	
41) Tetrahydrofuran	3.059	42	10871	0.530	ppbv	95
42) Bromodichloromethane	4.486	83	17552	0.501	ppbv	96
43) Methyl Methacrylate	4.881	69	10330m	0.532	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	43414m	0.525	ppbv	
45) t-1,3-Dichloropropene	6.409	75	10262m	0.492	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042953.D
 Acq On : 22 Sep 2025 11:22
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	13304m	0.500	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	9725m	0.527	ppbv	
48) Dibromochloromethane	7.383	129	14563	0.493	ppbv	99
49) Bromoform	9.480	173	12136	0.473	ppbv	97
50) 4-Methyl-2-Pentanone	5.761	43	23639	0.493	ppbv	95
51) 2-Hexanone	7.441	43	18322	0.480	ppbv #	97
52) Tetrachloroethene	8.218	164	9073m	0.490	ppbv	
53) Toluene	6.927	91	29404	0.519	ppbv	99
54) 1,2-Dibromoethane	7.648	107	13233	0.510	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	11535	0.519	ppbv #	1
57) Chlorobenzene	8.920	112	22463	0.530	ppbv	91
58) Ethyl Benzene	9.351	91	38459	0.505	ppbv	96
59) m/p-Xylene	9.545	91	61801m	1.028	ppbv	
60) o-Xylene	9.959	91	30976	0.516	ppbv	98
61) Styrene	9.865	104	14048	0.495	ppbv	98
62) Isopropylbenzene	10.535	105	46640	0.521	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15974	0.506	ppbv	97
64) n-propylbenzene	10.985	120	12333	0.527	ppbv	100
65) tert-Butylbenzene	11.529	119	42595	0.535	ppbv	99
66) Benzyl Chloride	11.613	91	3942m	0.472	ppbv	
67) sec-Butylbenzene	11.765	105	58190	0.525	ppbv	99
69) p-Isopropyltoluene	11.924	119	48855	0.521	ppbv	100
70) n-Butylbenzene	12.280	91	44764	0.489	ppbv	100
71) 2-Chlorotoluene	10.898	91	35797	0.530	ppbv	96
72) 4-Ethyltoluene	11.125	105	39803	0.529	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	30932	0.507	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	35601	0.529	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	21307	0.510	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	21404	0.516	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	20279	0.510	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	17515	0.563	ppbv	98
79) Naphthalene	13.510	128	25577	0.429	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	8906	0.484	ppbv	92
81) 1,2,4-Trichlorobenzene	13.439	180	12920	0.406	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042953.D
Acq On : 22 Sep 2025 11:22
Operator : SY/MD
Sample : VSTDIC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

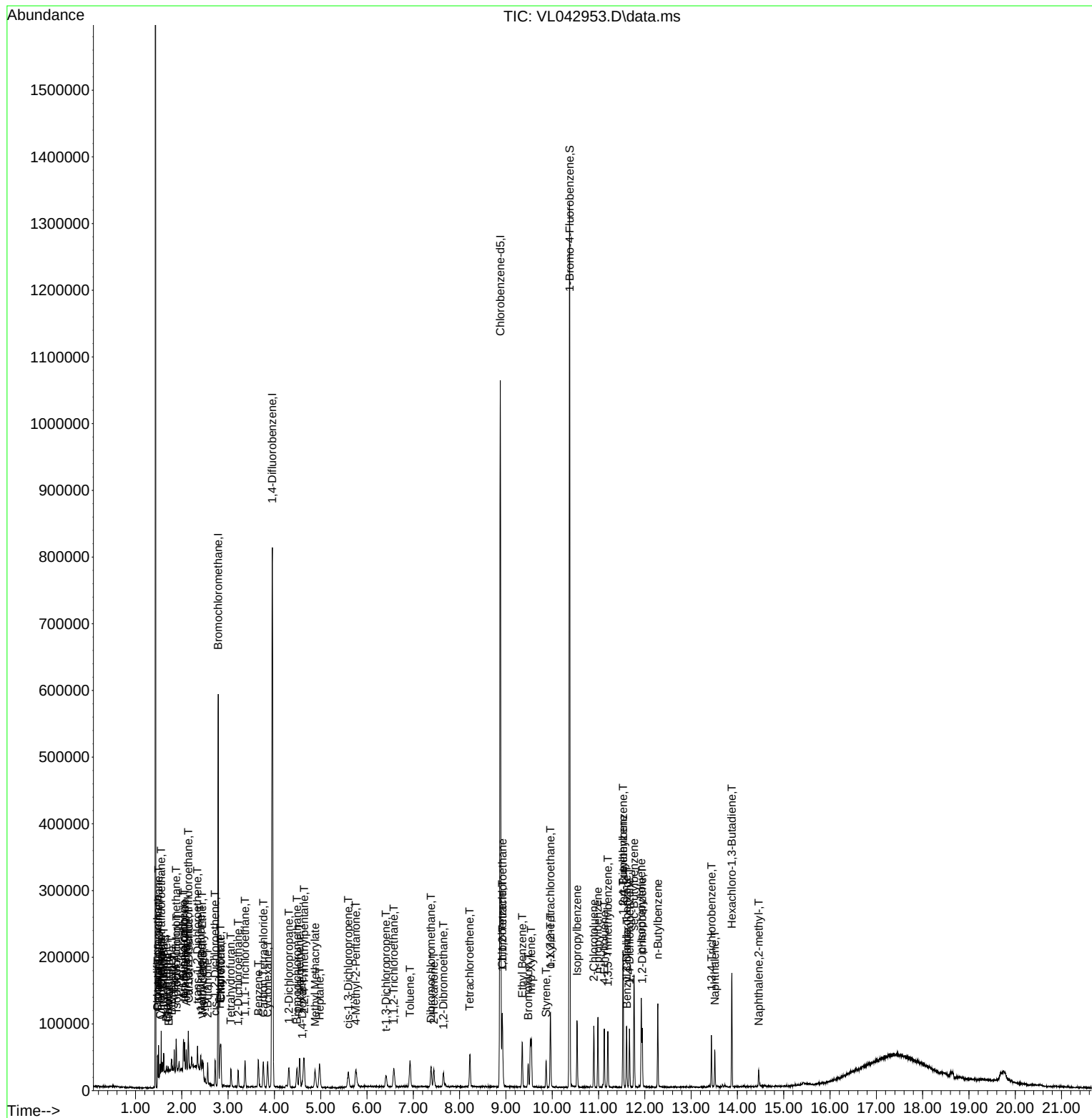
Quant Time: Sep 23 02:11:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042954.D
 Acq On : 22 Sep 2025 11:56
 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 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 23 2024
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163771	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	498673	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	457171	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	337196	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	920	0.102	ppbv #	75
32) 1,1,1-Trichloroethane	3.370	97	3418	0.098	ppbv	96
35) Carbon Tetrachloride	3.764	117	3071m	0.096	ppbv	
38) Trichloroethene	4.541	130	2470m	0.106	ppbv	
52) Tetrachloroethene	8.228	164	2013m	0.111	ppbv	
54) 1,2-Dibromoethane	7.655	107	2595m	0.102	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3301	0.106	ppbv	97
79) Naphthalene	13.516	128	4997m	0.085	ppbv	

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

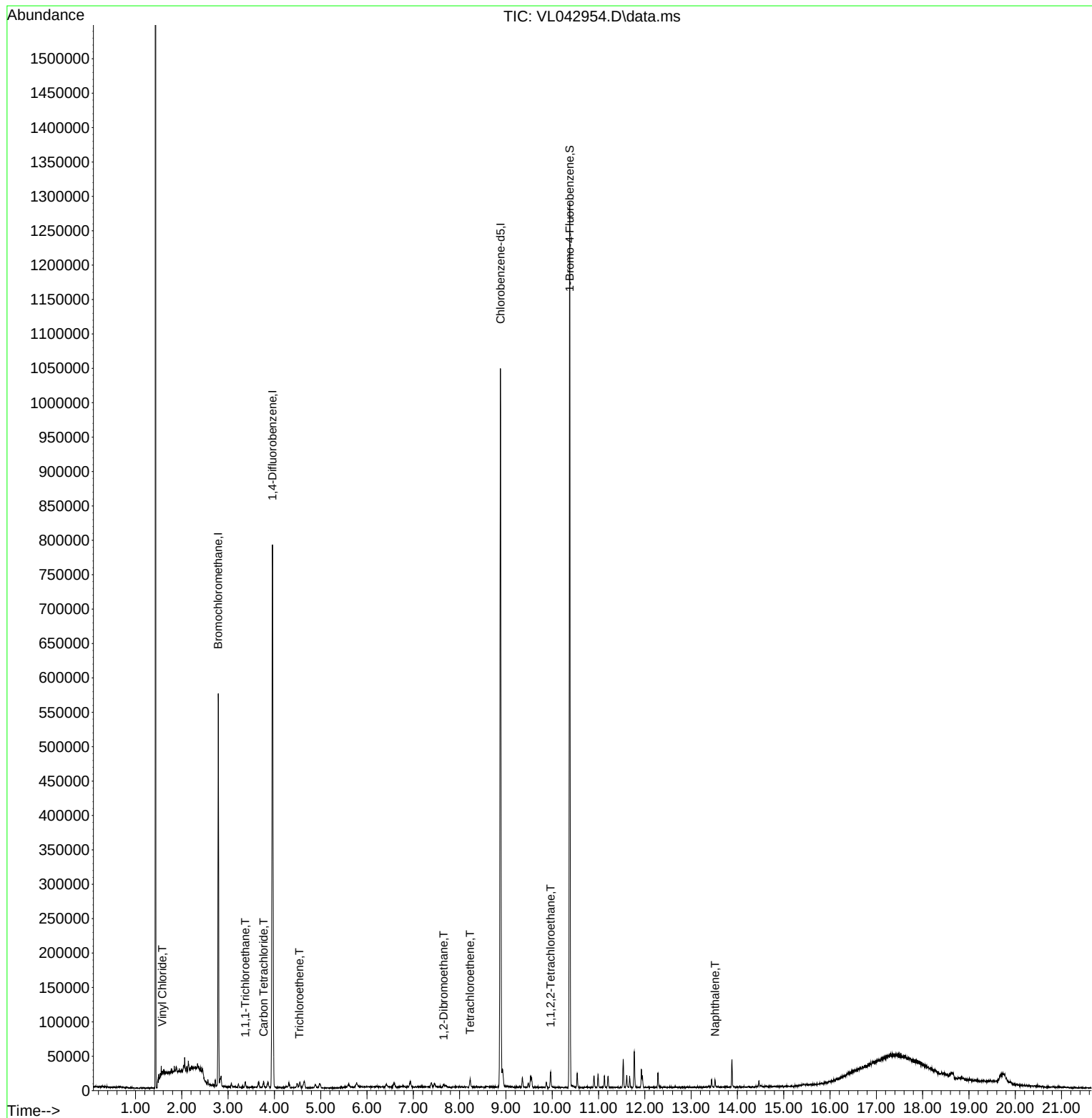
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042954.D
Acq On : 22 Sep 2025 11:56
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042955.D
 Acq On : 22 Sep 2025 12:30
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:13:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 23 02:07:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	163615	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	504423	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	454013	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	334002	9.855	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	358	0.040	ppbv	# 53
32) 1,1,1-Trichloroethane	3.373	97	1337m	0.038	ppbv	
35) Carbon Tetrachloride	3.761	117	1110m	0.034	ppbv	
38) Trichloroethene	4.551	130	797m	0.034	ppbv	
52) Tetrachloroethene	8.231	164	660m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1098m	0.036	ppbv	

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

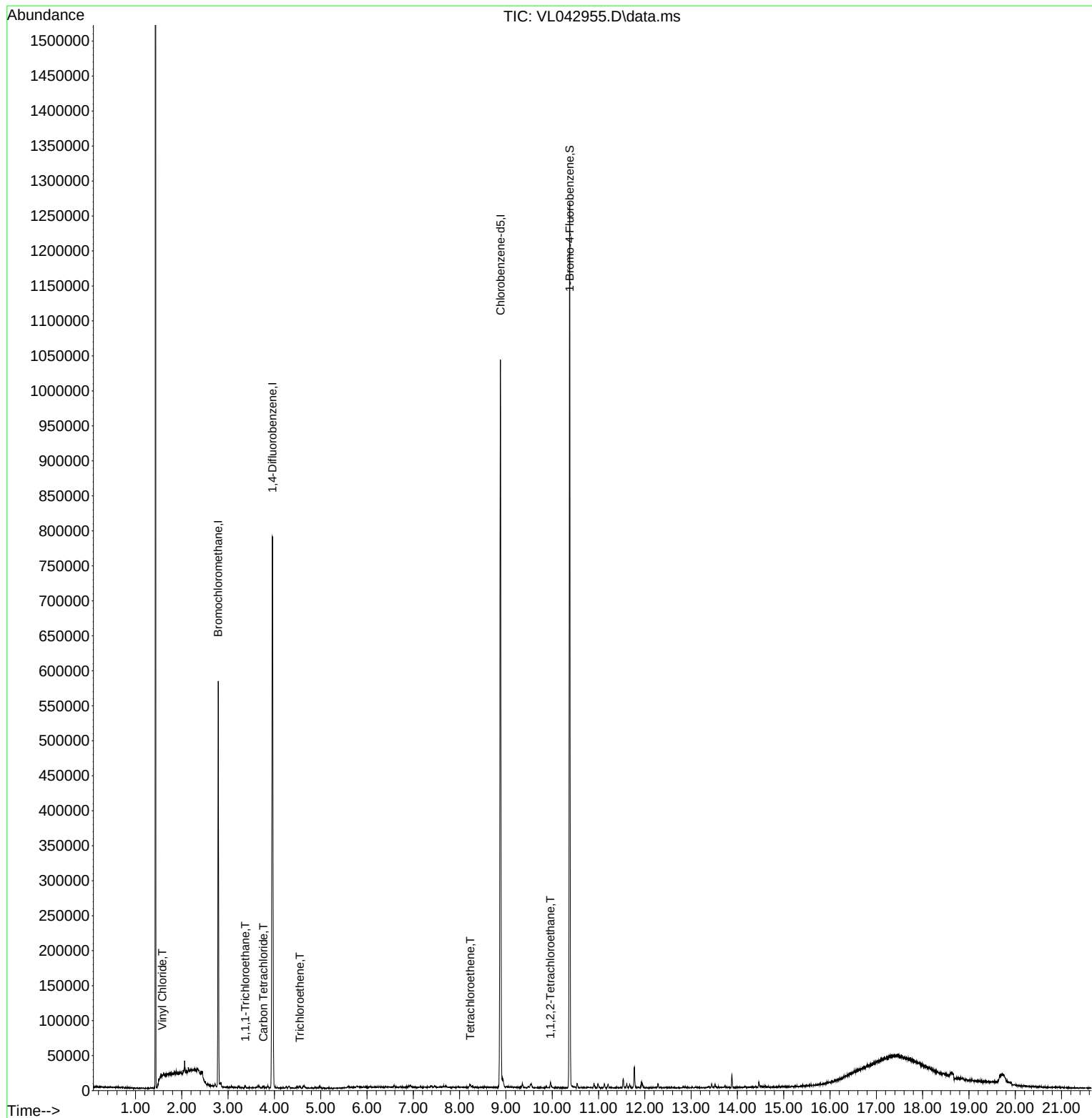
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042955.D
Acq On : 22 Sep 2025 12:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Sep 23 02:13:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:07:33 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
Supervised By : Mahesh Dadoda 09/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	162846	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	494779	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	458256	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 343752 10.049 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	300946	13.740	ppbv	97
3) Chlorodifluoromethane	1.476	51	364959	13.369	ppbv	100
4) Chloromethane	1.534	50	133240	13.439	ppbv	99
5) Vinyl Chloride	1.583	62	115257	12.860	ppbv	100
6) Bromomethane	1.670	94	40861	12.925	ppbv	94
7) Chloroethane	1.706	64	46081	13.241	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	255815	13.682	ppbv	98
9) Propene	1.486	41	154069	12.973	ppbv	94
10) Heptane	4.985	43	424500	13.327	ppbv	98
11) Trichlorofluoromethane	1.881	101	295479	13.991	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	237615	13.894	ppbv	99
13) Ethanol	1.722	45	11502	10.105	ppbv	99
14) Bromoethene	1.784	108	88375	13.668	ppbv	100
15) Acetone	1.835	43	244861	11.545	ppbv	97
16) 1,3-Butadiene	1.612	39	126670	12.661	ppbv	97
17) tert-Butyl alcohol	2.039	59	308347	13.255	ppbv	99
18) 1,1-Dichloroethene	2.036	96	109211	13.796	ppbv	99
19) Isopropyl Alcohol	1.887	45	162952	12.780	ppbv	100
20) Methylene Chloride	2.062	84	92708	14.996	ppbv	95
21) Allyl Chloride	2.098	41	204552	13.848	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	121815	13.542	ppbv	98
23) Vinyl Acetate	2.463	43	419251	13.837	ppbv	99
24) 1,1-Dichloroethane	2.411	63	243229	13.789	ppbv	99
25) Ethyl Acetate	2.835	43	724418	13.514	ppbv	99
26) Hexane	2.829	57	321710	13.166	ppbv	99
27) Carbon Disulfide	2.153	76	300931	13.731	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	193915	15.267	ppbv	94
29) Chloroform	2.852	83	440772	13.796	ppbv	98
30) Cyclohexane	3.858	84	281932	13.800	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	317456	13.869	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	456335	13.178	ppbv	99
34) 2-Butanone	2.557	43	469872	13.551	ppbv	99
35) Carbon Tetrachloride	3.764	117	457985	14.385	ppbv	97
36) Benzene	3.658	78	654205	14.080	ppbv	99
37) 1,2-Dichloroethane	3.221	62	350841	14.358	ppbv	100
38) Trichloroethene	4.548	130	310602	13.450	ppbv	97
39) 1,2-Dichloropropane	4.315	63	241323	14.218	ppbv	95
40) 1,4-Dioxane	4.580	88	104884	13.306	ppbv #	98
41) Tetrahydrofuran	3.052	42	276157	13.855	ppbv	99
42) Bromodichloromethane	4.489	83	495091	14.544	ppbv	98
43) Methyl Methacrylate	4.881	69	263659	13.979	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	1107180	13.791	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	298019	14.694	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042956.D
 Acq On : 22 Sep 2025 13:05
 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 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:14:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:07:33 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	371770	14.389	ppbv	99
47) 1,1,2-Trichloroethane	6.583	97	249453	13.909	ppbv	96
48) Dibromochloromethane	7.389	129	421755	14.709	ppbv	99
49) Bromoform	9.487	173	367120	14.719	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	666049	14.293	ppbv	100
51) 2-Hexanone	7.435	43	541611	14.620	ppbv	100
52) Tetrachloroethene	8.228	164	233980	13.015	ppbv	99
53) Toluene	6.936	91	765216	13.915	ppbv	98
54) 1,2-Dibromoethane	7.652	107	359750	14.261	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	306952	13.994	ppbv	99
57) Chlorobenzene	8.924	112	565065	13.507	ppbv	98
58) Ethyl Benzene	9.357	91	1052303	13.985	ppbv	99
59) m/p-Xylene	9.555	91	1636030m	27.557	ppbv	
60) o-Xylene	9.966	91	808098	13.629	ppbv	100
61) Styrene	9.872	104	401899	14.330	ppbv	99
62) Isopropylbenzene	10.542	105	1198767	13.564	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	403038	12.932	ppbv	100
64) n-propylbenzene	10.992	120	318541	13.793	ppbv	97
65) tert-Butylbenzene	11.532	119	1033382	13.146	ppbv	100
66) Benzyl Chloride	11.616	91	113549	13.767	ppbv	99
67) sec-Butylbenzene	11.769	105	1454158	13.276	ppbv	99
69) p-Isopropyltoluene	11.927	119	1228773	13.280	ppbv	100
70) n-Butylbenzene	12.283	91	1239042	13.716	ppbv	99
71) 2-Chlorotoluene	10.904	91	916456	13.733	ppbv	100
72) 4-Ethyltoluene	11.128	105	1014567	13.662	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	845958	14.046	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	889339	13.372	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	568597	13.785	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	570104	13.916	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	536286	13.665	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	377435	12.296	ppbv	99
79) Naphthalene	13.513	128	920123	15.645	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	277792	15.290	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	473767	15.066	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	159826	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	493072	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	450930	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 338071 10.043 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	197861	9.204	ppbv	98
3) Chlorodifluoromethane	1.476	51	246838	9.213	ppbv	99
4) Chloromethane	1.535	50	85932	8.831	ppbv	100
5) Vinyl Chloride	1.580	62	74819	8.506	ppbv	98
6) Bromomethane	1.667	94	26463	8.529	ppbv	91
7) Chloroethane	1.706	64	30377	8.894	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	164255	8.951	ppbv	98
9) Propene	1.483	41	105822	9.079	ppbv	95
10) Heptane	4.982	43	284333	9.141	ppbv	99
11) Trichlorofluoromethane	1.878	101	189800	9.157	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	151398	9.020	ppbv	99
13) Ethanol	1.722	45	6606	5.842	ppbv	90
14) Bromoethene	1.781	108	55748	8.785	ppbv	98
15) Acetone	1.836	43	157306	7.557	ppbv	98
16) 1,3-Butadiene	1.609	39	80854	8.234	ppbv	98
17) tert-Butyl alcohol	2.040	59	206466	9.043	ppbv	100
18) 1,1-Dichloroethene	2.036	96	69181	8.904	ppbv	94
19) Isopropyl Alcohol	1.884	45	108171	8.644	ppbv	100
20) Methylene Chloride	2.062	84	61743	9.945	ppbv	98
21) Allyl Chloride	2.098	41	132878	9.166	ppbv	100
22) trans-1,2-Dichloroethene	2.341	96	78085	8.845	ppbv	98
23) Vinyl Acetate	2.464	43	280339	9.427	ppbv	99
24) 1,1-Dichloroethane	2.409	63	155861	9.003	ppbv	100
25) Ethyl Acetate	2.833	43	486993	9.256	ppbv	99
26) Hexane	2.826	57	216458	9.026	ppbv	99
27) Carbon Disulfide	2.150	76	196191	9.121	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	121564	9.752	ppbv	95
29) Chloroform	2.849	83	300507	9.583	ppbv	100
30) Cyclohexane	3.855	84	186186	9.286	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	213362	9.497	ppbv	99
32) 1,1,1-Trichloroethane	3.370	97	307237	9.071	ppbv	100
34) 2-Butanone	2.558	43	313801	9.081	ppbv	100
35) Carbon Tetrachloride	3.762	117	304293	9.479	ppbv	97
36) Benzene	3.655	78	435981	9.416	ppbv	98
37) 1,2-Dichloroethane	3.218	62	233305	9.581	ppbv	99
38) Trichloroethene	4.548	130	205431	8.927	ppbv	95
39) 1,2-Dichloropropane	4.312	63	160275	9.482	ppbv	95
40) 1,4-Dioxane	4.577	88	69659	8.863	ppbv #	95
41) Tetrahydrofuran	3.053	42	184258	9.277	ppbv	100
42) Bromodichloromethane	4.490	83	329680	9.721	ppbv	99
43) Methyl Methacrylate	4.878	69	172867	9.125	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	738876	9.239	ppbv	99
45) t-1,3-Dichloropropene	6.416	75	188332	9.321	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:49:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	244367	9.490	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	165721	9.279	ppbv	97
48) Dibromochloromethane	7.387	129	278090	9.732	ppbv	99
49) Bromoform	9.484	173	238337	9.589	ppbv	99
50) 4-Methyl-2-Pentanone	5.746	43	435845	9.411	ppbv	99
51) 2-Hexanone	7.435	43	352962	9.561	ppbv	100
52) Tetrachloroethene	8.225	164	155469	8.678	ppbv	98
53) Toluene	6.933	91	509968	9.306	ppbv	99
54) 1,2-Dibromoethane	7.652	107	237604	9.452	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	205811	9.536	ppbv	99
57) Chlorobenzene	8.924	112	379110	9.209	ppbv	99
58) Ethyl Benzene	9.354	91	698086	9.428	ppbv	100
59) m/p-Xylene	9.552	91	1092496m	18.715	ppbv	
60) o-Xylene	9.966	91	538861	9.236	ppbv	99
61) Styrene	9.872	104	264257	9.575	ppbv	99
62) Isopropylbenzene	10.539	105	802723	9.230	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	272416	8.883	ppbv	100
64) n-propylbenzene	10.989	120	214374	9.433	ppbv	99
65) tert-Butylbenzene	11.533	119	711319	9.196	ppbv	99
66) Benzyl Chloride	11.617	91	71896	8.858	ppbv	99
67) sec-Butylbenzene	11.769	105	995407	9.235	ppbv	99
69) p-Isopropyltoluene	11.928	119	848196	9.316	ppbv	99
70) n-Butylbenzene	12.280	91	834882	9.392	ppbv	100
71) 2-Chlorotoluene	10.902	91	611697	9.315	ppbv	100
72) 4-Ethyltoluene	11.125	105	686229	9.391	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	567874	9.582	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	607159	9.277	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	380822	9.382	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	380109	9.429	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	359995	9.322	ppbv	100
78) Hexachloro-1,3-Butadiene	13.883	225	249142	8.248	ppbv	100
79) Naphthalene	13.514	128	590759	10.208	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	173023	9.678	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	304647	9.845	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	94	0.00
2 T	Dichlorodifluoromethane	1.345	1.238	8.0	93	0.00
3	Chlorodifluoromethane	1.676	1.544	7.9	92	0.00
4	Chloromethane	0.609	0.538	11.7	90	0.00
5 T	Vinyl Chloride	0.550	0.468	14.9	93	0.00
6 T	Bromomethane	0.194	0.166	14.4	94	0.00
7	Chloroethane	0.214	0.190	11.2	91	0.00
8 T	Dichlorotetrafluoroethane	1.148	1.028	10.5	92	0.00
9 T	Propene	0.729	0.662	9.2	91	0.00
10 T	Heptane	1.946	1.779	8.6	89	0.01
11 T	Trichlorofluoromethane	1.297	1.188	8.4	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.050	0.947	9.8	92	0.00
13	Ethanol	0.071	0.041#	42.3#	73	0.00
14 T	Bromoethene	0.397	0.349	12.1	90	0.00
15 T	Acetone	1.302	0.984	24.4	93	0.00
16 T	1,3-Butadiene	0.614	0.506	17.6	91	0.00
17	tert-Butyl alcohol	1.429	1.292	9.6	89	0.00
18 T	1,1-Dichloroethene	0.486	0.433	10.9	91	0.00
19 T	Isopropyl Alcohol	0.783	0.677	13.5	88	0.00
20 T	Methylene Chloride	0.545	0.386	29.2	93	0.00
21 T	Allyl Chloride	0.907	0.831	8.4	91	0.00
22 T	trans-1,2-Dichloroethene	0.552	0.489	11.4	90	0.00
23 T	Vinyl Acetate	1.861	1.754	5.7	103	0.00
24 T	1,1-Dichloroethane	1.083	0.975	10.0	92	0.00
25 T	Ethyl Acetate	3.292	3.047	7.4	90	0.00
26 T	Hexane	1.501	1.354	9.8	91	0.00
27 T	Carbon Disulfide	1.346	1.228	8.8	90	0.00
28 T	Methyl tert-Butyl Ether	0.780	0.761	2.4	112	0.00
29 T	Chloroform	1.962	1.880	4.2	95	0.00
30 T	Cyclohexane	1.255	1.165	7.2	91	0.00
31 T	cis-1,2-Dichloroethene	1.406	1.335	5.0	92	0.00
32 T	1,1,1-Trichloroethane	2.119	1.922	9.3	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
34 T	2-Butanone	0.701	0.636	9.3	91	0.00
35 T	Carbon Tetrachloride	0.651	0.617	5.2	95	0.00
36 T	Benzene	0.939	0.884	5.9	92	0.00
37 T	1,2-Dichloroethane	0.494	0.473	4.3	94	0.00
38 T	Trichloroethene	0.467	0.417	10.7	91	0.00
39 T	1,2-Dichloropropane	0.343	0.325	5.2	93	0.00
40 T	1,4-Dioxane	0.159	0.141	11.3	89	0.00
41 T	Tetrahydrofuran	0.403	0.374	7.2	90	0.00
42 T	Bromodichloromethane	0.688	0.669	2.8	92	0.00
43	Methyl Methacrylate	0.384	0.351	8.6	89	0.00
44 T	2,2,4-Trimethylpentane	1.622	1.499	7.6	90	0.00
45 T	t-1,3-Dichloropropene	0.410	0.382	6.8	88	0.00
46 T	cis-1,3-Dichloropropene	0.522	0.496	5.0	89	0.01
47 T	1,1,2-Trichloroethane	0.362	0.336	7.2	91	0.00
48 T	Dibromochloromethane	0.580	0.564	2.8	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	0.504	0.483	4.2	89	0.00
50 T	4-Methyl-2-Pentanone	0.939	0.884	5.9	89	0.00
51 T	2-Hexanone	0.749	0.716	4.4	89	0.00
52 T	Tetrachloroethene	0.363	0.315	13.2	91	0.00
53 T	Toluene	1.111	1.034	6.9	90	0.00
54 T	1,2-Dibromoethane	0.510	0.482	5.5	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.479	0.456	4.8	92	0.00
57 T	Chlorobenzene	0.913	0.841	7.9	91	0.00
58 T	Ethyl Benzene	1.642	1.548	5.7	91	0.00
59 T	m/p-Xylene	1.295	1.211	6.5	92	0.03
60 T	o-Xylene	1.294	1.195	7.7	91	0.00
61 T	Styrene	0.612	0.586	4.2	90	0.00
62	Isopropylbenzene	1.929	1.780	7.7	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.680	0.604	11.2	92	0.00
64	n-propylbenzene	0.504	0.475	5.8	93	0.00
65	tert-Butylbenzene	1.715	1.577	8.0	94	0.00
66 T	Benzyl Chloride	0.180	0.159	11.7	76	0.00
67	sec-Butylbenzene	2.390	2.207	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	0.746	0.750	-0.5	91	0.00
69	p-Isopropyltoluene	2.019	1.881	6.8	94	0.00
70	n-Butylbenzene	1.971	1.851	6.1	91	0.00
71	2-Chlorotoluene	1.456	1.357	6.8	92	0.00
72 T	4-Ethyltoluene	1.621	1.522	6.1	93	0.00
73 T	1,3,5-Trimethylbenzene	1.314	1.259	4.2	92	0.00
74 T	1,2,4-Trimethylbenzene	1.451	1.346	7.2	92	0.00
75 T	1,3-Dichlorobenzene	0.900	0.845	6.1	93	0.00
76 T	1,4-Dichlorobenzene	0.894	0.843	5.7	92	0.00
77 T	1,2-Dichlorobenzene	0.856	0.798	6.8	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.670	0.553	17.5	89	0.00
79 T	Naphthalene	1.283	1.310	-2.1	88	0.00
80 T	Naphthalene,2-methyl-	0.396	0.384	3.0	88	0.00
81 T	1,2,4-Trichlorobenzene	0.686	0.676	1.5	87	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	94	0.00
2 T	Dichlorodifluoromethane	10.000	9.204	8.0	93	0.00
3	Chlorodifluoromethane	10.000	9.213	7.9	92	0.00
4	Chloromethane	10.000	8.831	11.7	90	0.00
5 T	Vinyl Chloride	10.000	8.506	14.9	93	0.00
6 T	Bromomethane	10.000	8.529	14.7	94	0.00
7	Chloroethane	10.000	8.894	11.1	91	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.951	10.5	92	0.00
9 T	Propene	10.000	9.079	9.2	91	0.00
10 T	Heptane	10.000	9.141	8.6	89	0.01
11 T	Trichlorofluoromethane	10.000	9.157	8.4	93	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.020	9.8	92	0.00
13	Ethanol	10.000	5.842	41.6#	73	0.00
14 T	Bromoethene	10.000	8.785	12.1	90	0.00
15 T	Acetone	10.000	7.557	24.4	93	0.00
16 T	1,3-Butadiene	10.000	8.234	17.7	91	0.00
17	tert-Butyl alcohol	10.000	9.043	9.6	89	0.00
18 T	1,1-Dichloroethene	10.000	8.904	11.0	91	0.00
19 T	Isopropyl Alcohol	10.000	8.644	13.6	88	0.00
20 T	Methylene Chloride	10.000	9.945	0.5	93	0.00
21 T	Allyl Chloride	10.000	9.166	8.3	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.845	11.5	90	0.00
23 T	Vinyl Acetate	10.000	9.427	5.7	103	0.00
24 T	1,1-Dichloroethane	10.000	9.003	10.0	92	0.00
25 T	Ethyl Acetate	10.000	9.256	7.4	90	0.00
26 T	Hexane	10.000	9.026	9.7	91	0.00
27 T	Carbon Disulfide	10.000	9.121	8.8	90	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.752	2.5	112	0.00
29 T	Chloroform	10.000	9.583	4.2	95	0.00
30 T	Cyclohexane	10.000	9.286	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.497	5.0	92	0.00
32 T	1,1,1-Trichloroethane	10.000	9.071	9.3	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.00
34 T	2-Butanone	10.000	9.081	9.2	91	0.00
35 T	Carbon Tetrachloride	10.000	9.479	5.2	95	0.00
36 T	Benzene	10.000	9.416	5.8	92	0.00
37 T	1,2-Dichloroethane	10.000	9.581	4.2	94	0.00
38 T	Trichloroethene	10.000	8.927	10.7	91	0.00
39 T	1,2-Dichloropropane	10.000	9.482	5.2	93	0.00
40 T	1,4-Dioxane	10.000	8.863	11.4	89	0.00
41 T	Tetrahydrofuran	10.000	9.277	7.2	90	0.00
42 T	Bromodichloromethane	10.000	9.721	2.8	92	0.00
43	Methyl Methacrylate	10.000	9.125	8.8	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.239	7.6	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.321	6.8	88	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.490	5.1	89	0.01
47 T	1,1,2-Trichloroethane	10.000	9.279	7.2	91	0.00
48 T	Dibromochloromethane	10.000	9.732	2.7	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042957.D
 Acq On : 22 Sep 2025 14:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL092225

Quant Time: Sep 23 02:49:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	9.589	4.1	89	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.411	5.9	89	0.00
51 T	2-Hexanone	10.000	9.561	4.4	89	0.00
52 T	Tetrachloroethene	10.000	8.678	13.2	91	0.00
53 T	Toluene	10.000	9.306	6.9	90	0.00
54 T	1,2-Dibromoethane	10.000	9.452	5.5	92	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.536	4.6	92	0.00
57 T	Chlorobenzene	10.000	9.209	7.9	91	0.00
58 T	Ethyl Benzene	10.000	9.428	5.7	91	0.00
59 T	m/p-Xylene	20.000	18.715	6.4	92	0.03
60 T	o-Xylene	10.000	9.236	7.6	91	0.00
61 T	Styrene	10.000	9.575	4.3	90	0.00
62	Isopropylbenzene	10.000	9.230	7.7	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.883	11.2	92	0.00
64	n-propylbenzene	10.000	9.433	5.7	93	0.00
65	tert-Butylbenzene	10.000	9.196	8.0	94	0.00
66 T	Benzyl Chloride	10.000	8.858	11.4	76	0.00
67	sec-Butylbenzene	10.000	9.235	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.043	-0.4	91	0.00
69	p-Isopropyltoluene	10.000	9.316	6.8	94	0.00
70	n-Butylbenzene	10.000	9.392	6.1	91	0.00
71	2-Chlorotoluene	10.000	9.315	6.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.391	6.1	93	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.582	4.2	92	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.277	7.2	92	0.00
75 T	1,3-Dichlorobenzene	10.000	9.382	6.2	93	0.00
76 T	1,4-Dichlorobenzene	10.000	9.429	5.7	92	0.00
77 T	1,2-Dichlorobenzene	10.000	9.322	6.8	93	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.248	17.5	89	0.00
79 T	Naphthalene	10.000	10.208	-2.1	88	0.00
80 T	Naphthalene,2-methyl-	10.000	9.678	3.2	88	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.845	1.5	87	0.00

(#) = Out of Range

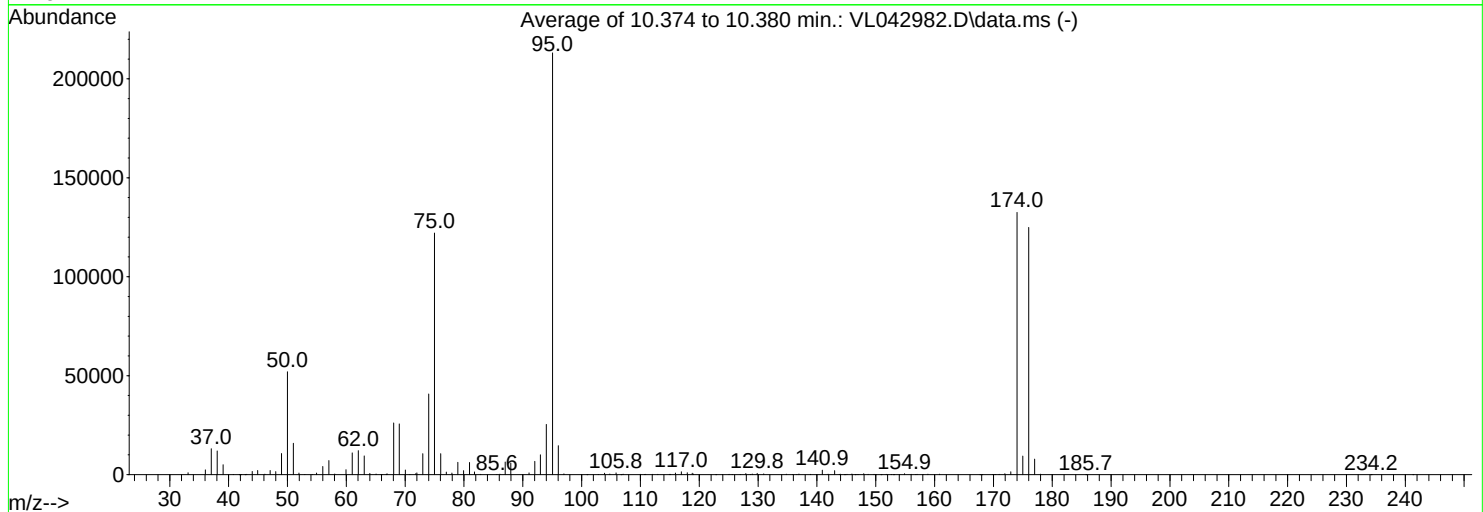
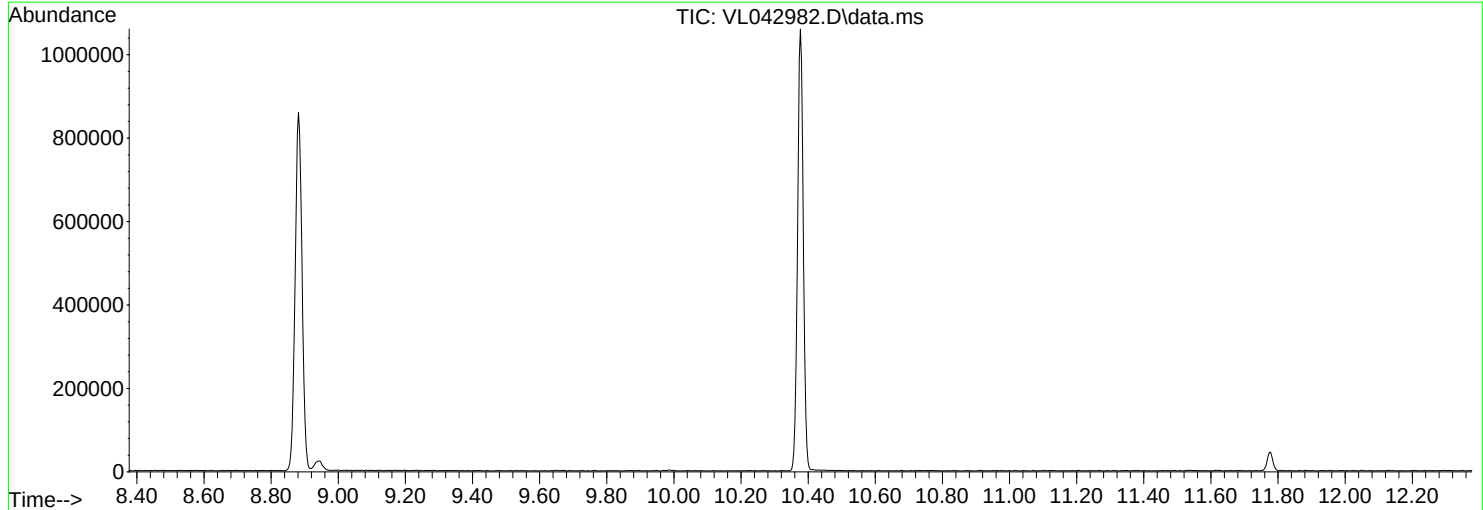
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042982.D
Acq On : 23 Sep 2025 08:30
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\VL092225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 23 02:39:16 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.4	52027	PASS
75	95	30	66	57.3	122083	PASS
95	95	100	100	100.0	213141	PASS
96	95	5	9	6.9	14633	PASS
173	174	0.00	2	1.1	1487	PASS
174	95	50	120	62.2	132544	PASS
175	174	4	9	7.1	9369	PASS
176	174	93	101	94.3	124939	PASS
177	176	5	9	6.3	7833	PASS

Average of 10.374 to 10.380 min.: VL042982.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1015	44.95	2127	56.00	4143	66.95	411
36.05	2397	46.15	210	57.05	7144	68.05	2612
37.05	13103	47.05	2101	58.05	345	69.00	2561
38.05	11973	48.00	1573	59.95	2498	70.05	232
39.05	5025	49.00	10713	61.00	10975	70.80	72
40.80	49	50.00	52027	62.05	12162	71.80	450
41.80	23	51.00	15871	63.05	9491	72.00	885
42.00	32	51.95	788	64.00	671	73.00	10564
42.80	29	52.95	56	65.05	355	74.00	40773
43.10	156	54.20	66	65.90	44	75.00	122083
44.00	1612	54.95	780	66.80	218	76.05	10589

Average of 10.374 to 10.380 min.: VL042982.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1278	91.05	890	105.85	864	116.95	1446
77.95	852	92.05	6751	106.70	39	117.95	942
78.95	6271	93.00	10004	107.05	271	118.80	757
79.95	2066	94.00	25363	110.00	159	119.00	367
80.95	6188	95.05	213141	110.70	79	122.80	25
81.80	1379	96.05	14633	110.90	179	123.95	108
82.85	197	97.00	395	112.05	180	125.05	149
85.60	61	100.90	40	112.95	160	125.60	110
86.10	257	102.85	86	114.90	190	126.95	61
87.00	6377	103.90	747	115.10	161	127.90	575
87.95	5949	104.80	290	115.95	793	128.70	89

Average of 10.374 to 10.380 min.: VL042982.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	365	143.00	2024	149.70	187	158.05	51
129.85	662	143.80	48	149.90	46	158.85	275
130.95	378	143.95	257	150.90	47	160.85	219
134.80	275	144.70	32	151.75	144	167.70	46
135.90	64	145.10	200	152.65	94	168.00	31
136.60	92	145.95	297	153.00	47	169.90	50
136.95	365	146.50	27	154.05	97	170.10	52
138.90	133	146.85	97	154.90	531	170.40	57
139.95	78	147.10	68	156.00	158	170.95	168
140.90	2279	147.95	516	156.80	78	171.95	471
141.90	285	148.70	176	157.00	156	172.95	1487

Average of 10.374 to 10.380 min.: VL042982.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.00	132544						
175.00	9369						
176.00	124939						
177.00	7833						
178.00	228						
185.70	21						
234.20	24						
241.30	17						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 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 09/24/2025
 Supervised By : Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:04:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	140159	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	397606	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	356928	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 285330 10.709 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	187032	9.921	ppbv	95
3) Chlorodifluoromethane	1.479	51	226561	9.643	ppbv	97
4) Chloromethane	1.534	50	78049	9.147	ppbv	99
5) Vinyl Chloride	1.583	62	67278	8.722	ppbv	100
6) Bromomethane	1.670	94	24422	8.975	ppbv	96
7) Chloroethane	1.709	64	26802	8.948	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	151817	9.434	ppbv	100
9) Propene	1.486	41	83019	8.122	ppbv	96
10) Heptane	4.991	43	242117	8.876	ppbv	99
11) Trichlorofluoromethane	1.881	101	185063	10.181	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	144385	9.809	ppbv	99
13) Ethanol	1.725	45	6504	6.559	ppbv	96
14) Bromoethene	1.787	108	51728	9.295	ppbv	98
15) Acetone	1.839	43	146605	8.031	ppbv	98
16) 1,3-Butadiene	1.612	39	74090	8.604	ppbv	97
17) tert-Butyl alcohol	2.043	59	167840	8.383	ppbv	100
18) 1,1-Dichloroethene	2.039	96	63829	9.368	ppbv	99
19) Isopropyl Alcohol	1.890	45	94735	8.633	ppbv	95
20) Methylene Chloride	2.065	84	55766	10.264	ppbv	96
21) Allyl Chloride	2.101	41	117413	9.235	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	71690	9.260	ppbv	97
23) Vinyl Acetate	2.467	43	230988	8.857	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	145685	9.596	ppbv	99
25) Ethyl Acetate	2.839	43	423103	9.170	ppbv	99
26) Hexane	2.832	57	188410	8.959	ppbv	98
27) Carbon Disulfide	2.156	76	170121	9.019	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	91757	8.393	ppbv	95
29) Chloroform	2.855	83	281560	10.239	ppbv	99
30) Cyclohexane	3.862	84	158650	9.022	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	188239	9.555	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	274087	9.228	ppbv	99
34) 2-Butanone	2.560	43	279284	10.023	ppbv	99
35) Carbon Tetrachloride	3.771	117	279346	10.791	ppbv	98
36) Benzene	3.664	78	373905	10.014	ppbv	99
37) 1,2-Dichloroethane	3.224	62	224338	11.424	ppbv	97
38) Trichloroethene	4.557	130	174937	9.427	ppbv	92
39) 1,2-Dichloropropane	4.324	63	138847	10.186	ppbv	87
40) 1,4-Dioxane	4.587	88	58847	9.285	ppbv #	97
41) Tetrahydrofuran	3.059	42	152129	9.498	ppbv	100
42) Bromodichloromethane	4.499	83	297856	10.891	ppbv	97
43) Methyl Methacrylate	4.891	69	143508	9.394	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	637574	9.887	ppbv	97
45) t-1,3-Dichloropropene	6.428	75	149384	9.169	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 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 09/24/2025
 Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:04:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	197209	9.498	ppbv	96
47) 1,1,2-Trichloroethane	6.590	97	146175	10.149	ppbv	97
48) Dibromochloromethane	7.396	129	241948	10.500	ppbv	99
49) Bromoform	9.490	173	201373	10.047	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	371641	9.951	ppbv	99
51) 2-Hexanone	7.444	43	299396	10.057	ppbv #	97
52) Tetrachloroethene	8.231	164	130498	9.033	ppbv	97
53) Toluene	6.943	91	424755	9.612	ppbv	100
54) 1,2-Dibromoethane	7.661	107	210744	10.396	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.933	131	181159	10.604	ppbv	98
57) Chlorobenzene	8.930	112	332694	10.210	ppbv	99
58) Ethyl Benzene	9.364	91	602544	10.281	ppbv	98
59) m/p-Xylene	9.558	91	964478m	20.873	ppbv	
60) o-Xylene	9.972	91	484224	10.485	ppbv	99
61) Styrene	9.878	104	212504	9.728	ppbv	97
62) Isopropylbenzene	10.545	105	703444	10.219	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	246998	10.175	ppbv	100
64) n-propylbenzene	10.995	120	181920	10.113	ppbv	94
65) tert-Butylbenzene	11.536	119	612510	10.004	ppbv	97
66) Benzyl Chloride	11.623	91	38429	5.982	ppbv	98
67) sec-Butylbenzene	11.772	105	877873	10.290	ppbv	98
69) p-Isopropyltoluene	11.930	119	733573	10.179	ppbv	98
70) n-Butylbenzene	12.286	91	744721	10.584	ppbv	99
71) 2-Chlorotoluene	10.908	91	531933	10.234	ppbv	98
72) 4-Ethyltoluene	11.131	105	592733	10.248	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	491234	10.472	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	545008	10.521	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	327787	10.203	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	328439	10.293	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	313228	10.247	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	214126	8.956	ppbv	99
79) Naphthalene	13.516	128	503948	11.001	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	125827	8.892	ppbv	95
81) 1,2,4-Trichlorobenzene	13.445	180	261685	10.684	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	82	0.00
2 T	Dichlorodifluoromethane	1.345	1.334	0.8	88	0.00
3	Chlorodifluoromethane	1.676	1.616	3.6	84	0.00
4	Chloromethane	0.609	0.557	8.5	82	0.00
5 T	Vinyl Chloride	0.550	0.480	12.7	84	0.00
6 T	Bromomethane	0.194	0.174	10.3	86	0.00
7	Chloroethane	0.214	0.191	10.7	80	0.00
8 T	Dichlorotetrafluoroethane	1.148	1.083	5.7	85	0.00
9 T	Propene	0.729	0.592	18.8	71	0.00
10 T	Heptane	1.946	1.727	11.3	76	0.02
11 T	Trichlorofluoromethane	1.297	1.320	-1.8	90	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.050	1.030	1.9	88	0.00
13	Ethanol	0.071	0.046#	35.2#	72	0.00
14 T	Bromoethene	0.397	0.369	7.1	84	0.00
15 T	Acetone	1.302	1.046	19.7	86	0.00
16 T	1,3-Butadiene	0.614	0.529	13.8	83	0.00
17	tert-Butyl alcohol	1.429	1.197	16.2	73	0.00
18 T	1,1-Dichloroethene	0.486	0.455	6.4	84	0.00
19 T	Isopropyl Alcohol	0.783	0.676	13.7	77	0.00
20 T	Methylene Chloride	0.545	0.398	27.0	84	0.00
21 T	Allyl Chloride	0.907	0.838	7.6	80	0.00
22 T	trans-1,2-Dichloroethene	0.552	0.511	7.4	83	0.00
23 T	Vinyl Acetate	1.861	1.648	11.4	85	0.00
24 T	1,1-Dichloroethane	1.083	1.039	4.1	86	0.00
25 T	Ethyl Acetate	3.292	3.019	8.3	79	0.00
26 T	Hexane	1.501	1.344	10.5	79	0.00
27 T	Carbon Disulfide	1.346	1.214	9.8	78	0.00
28 T	Methyl tert-Butyl Ether	0.780	0.655	16.0	84	0.00
29 T	Chloroform	1.962	2.009	-2.4	89	0.00
30 T	Cyclohexane	1.255	1.132	9.8	78	0.00
31 T	cis-1,2-Dichloroethene	1.406	1.343	4.5	81	0.00
32 T	1,1,1-Trichloroethane	2.119	1.956	7.7	84	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	75	0.01
34 T	2-Butanone	0.701	0.702	-0.1	81	0.00
35 T	Carbon Tetrachloride	0.651	0.703	-8.0	87	0.02
36 T	Benzene	0.939	0.940	-0.1	79	0.01
37 T	1,2-Dichloroethane	0.494	0.564	-14.2	91	0.00
38 T	Trichloroethene	0.467	0.440	5.8	78	0.02
39 T	1,2-Dichloropropane	0.343	0.349	-1.7	81	0.02
40 T	1,4-Dioxane	0.159	0.148	6.9	76	0.02
41 T	Tetrahydrofuran	0.403	0.383	5.0	74	0.01
42 T	Bromodichloromethane	0.688	0.749	-8.9	83	0.02
43	Methyl Methacrylate	0.384	0.361	6.0	74	0.02
44 T	2,2,4-Trimethylpentane	1.622	1.604	1.1	77	0.02
45 T	t-1,3-Dichloropropene	0.410	0.376	8.3	69	0.02
46 T	cis-1,3-Dichloropropene	0.522	0.496	5.0	72	0.02
47 T	1,1,2-Trichloroethane	0.362	0.368	-1.7	81	0.02
48 T	Dibromochloromethane	0.580	0.609	-5.0	81	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	0.504	0.506	-0.4	75	0.00
50 T	4-Methyl-2-Pentanone	0.939	0.935	0.4	76	0.02
51 T	2-Hexanone	0.749	0.753	-0.5	76	0.02
52 T	Tetrachloroethene	0.363	0.328	9.6	76	0.01
53 T	Toluene	1.111	1.068	3.9	75	0.02
54 T	1,2-Dibromoethane	0.510	0.530	-3.9	82	0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	73	0.01
56	1,1,1,2-Tetrachloroethane	0.479	0.508	-6.1	81	0.01
57 T	Chlorobenzene	0.913	0.932	-2.1	80	0.01
58 T	Ethyl Benzene	1.642	1.688	-2.8	79	0.02
59 T	m/p-Xylene	1.295	1.351	-4.3	81	0.03
60 T	o-Xylene	1.294	1.357	-4.9	81	0.01
61 T	Styrene	0.612	0.595	2.8	72	0.01
62	Isopropylbenzene	1.929	1.971	-2.2	80	0.00
63 T	1,1,2,2-Tetrachloroethane	0.680	0.692	-1.8	83	0.01
64	n-propylbenzene	0.504	0.510	-1.2	79	0.00
65	tert-Butylbenzene	1.715	1.716	-0.1	81	0.00
66 T	Benzyl Chloride	0.180	0.108	40.0#	40	0.01
67	sec-Butylbenzene	2.390	2.460	-2.9	82	0.00
68 S	1-Bromo-4-Fluorobenzene	0.746	0.799	-7.1	77	0.01
69	p-Isopropyltoluene	2.019	2.055	-1.8	81	0.00
70	n-Butylbenzene	1.971	2.086	-5.8	81	0.00
71	2-Chlorotoluene	1.456	1.490	-2.3	80	0.01
72 T	4-Ethyltoluene	1.621	1.661	-2.5	80	0.00
73 T	1,3,5-Trimethylbenzene	1.314	1.376	-4.7	80	0.00
74 T	1,2,4-Trimethylbenzene	1.451	1.527	-5.2	83	0.00
75 T	1,3-Dichlorobenzene	0.900	0.918	-2.0	80	0.00
76 T	1,4-Dichlorobenzene	0.894	0.920	-2.9	80	0.00
77 T	1,2-Dichlorobenzene	0.856	0.878	-2.6	81	0.00
78 T	Hexachloro-1,3-Butadiene	0.670	0.600	10.4	76	0.00
79 T	Naphthalene	1.283	1.412	-10.1	75	0.00
80 T	Naphthalene,2-methyl-	0.396	0.353	10.9	64	0.00
81 T	1,2,4-Trichlorobenzene	0.686	0.733	-6.9	75	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	82	0.00
2 T	Dichlorodifluoromethane	10.000	9.921	0.8	88	0.00
3	Chlorodifluoromethane	10.000	9.643	3.6	84	0.00
4	Chloromethane	10.000	9.147	8.5	82	0.00
5 T	Vinyl Chloride	10.000	8.722	12.8	84	0.00
6 T	Bromomethane	10.000	8.975	10.3	86	0.00
7	Chloroethane	10.000	8.948	10.5	80	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.434	5.7	85	0.00
9 T	Propene	10.000	8.122	18.8	71	0.00
10 T	Heptane	10.000	8.876	11.2	76	0.02
11 T	Trichlorofluoromethane	10.000	10.181	-1.8	90	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.809	1.9	88	0.00
13	Ethanol	10.000	6.559	34.4#	72	0.00
14 T	Bromoethene	10.000	9.295	7.1	84	0.00
15 T	Acetone	10.000	8.031	19.7	86	0.00
16 T	1,3-Butadiene	10.000	8.604	14.0	83	0.00
17	tert-Butyl alcohol	10.000	8.383	16.2	73	0.00
18 T	1,1-Dichloroethene	10.000	9.368	6.3	84	0.00
19 T	Isopropyl Alcohol	10.000	8.633	13.7	77	0.00
20 T	Methylene Chloride	10.000	10.264	-2.6	84	0.00
21 T	Allyl Chloride	10.000	9.235	7.7	80	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.260	7.4	83	0.00
23 T	Vinyl Acetate	10.000	8.857	11.4	85	0.00
24 T	1,1-Dichloroethane	10.000	9.596	4.0	86	0.00
25 T	Ethyl Acetate	10.000	9.170	8.3	79	0.00
26 T	Hexane	10.000	8.959	10.4	79	0.00
27 T	Carbon Disulfide	10.000	9.019	9.8	78	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.393	16.1	84	0.00
29 T	Chloroform	10.000	10.239	-2.4	89	0.00
30 T	Cyclohexane	10.000	9.022	9.8	78	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.555	4.5	81	0.00
32 T	1,1,1-Trichloroethane	10.000	9.228	7.7	84	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	75	0.01
34 T	2-Butanone	10.000	10.023	-0.2	81	0.00
35 T	Carbon Tetrachloride	10.000	10.791	-7.9	87	0.02
36 T	Benzene	10.000	10.014	-0.1	79	0.01
37 T	1,2-Dichloroethane	10.000	11.424	-14.2	91	0.00
38 T	Trichloroethene	10.000	9.427	5.7	78	0.02
39 T	1,2-Dichloropropane	10.000	10.186	-1.9	81	0.02
40 T	1,4-Dioxane	10.000	9.285	7.1	76	0.02
41 T	Tetrahydrofuran	10.000	9.498	5.0	74	0.01
42 T	Bromodichloromethane	10.000	10.891	-8.9	83	0.02
43	Methyl Methacrylate	10.000	9.394	6.1	74	0.02
44 T	2,2,4-Trimethylpentane	10.000	9.887	1.1	77	0.02
45 T	t-1,3-Dichloropropene	10.000	9.169	8.3	69	0.02
46 T	cis-1,3-Dichloropropene	10.000	9.498	5.0	72	0.02
47 T	1,1,2-Trichloroethane	10.000	10.149	-1.5	81	0.02
48 T	Dibromochloromethane	10.000	10.500	-5.0	81	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042983.D
 Acq On : 23 Sep 2025 09:14
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 24 02:04:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 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	10.047	-0.5	75	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.951	0.5	76	0.02
51 T	2-Hexanone	10.000	10.057	-0.6	76	0.02
52 T	Tetrachloroethene	10.000	9.033	9.7	76	0.01
53 T	Toluene	10.000	9.612	3.9	75	0.02
54 T	1,2-Dibromoethane	10.000	10.396	-4.0	82	0.02
55 I	Chlorobenzene-d5	10.000	10.000	0.0	73	0.01
56	1,1,1,2-Tetrachloroethane	10.000	10.604	-6.0	81	0.01
57 T	Chlorobenzene	10.000	10.210	-2.1	80	0.01
58 T	Ethyl Benzene	10.000	10.281	-2.8	79	0.02
59 T	m/p-Xylene	20.000	20.873	-4.4	81	0.03
60 T	o-Xylene	10.000	10.485	-4.8	81	0.01
61 T	Styrene	10.000	9.728	2.7	72	0.01
62	Isopropylbenzene	10.000	10.219	-2.2	80	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.175	-1.8	83	0.01
64	n-propylbenzene	10.000	10.113	-1.1	79	0.00
65	tert-Butylbenzene	10.000	10.004	-0.0	81	0.00
66 T	Benzyl Chloride	10.000	5.982	40.2#	40	0.01
67	sec-Butylbenzene	10.000	10.290	-2.9	82	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.709	-7.1	77	0.01
69	p-Isopropyltoluene	10.000	10.179	-1.8	81	0.00
70	n-Butylbenzene	10.000	10.584	-5.8	81	0.00
71	2-Chlorotoluene	10.000	10.234	-2.3	80	0.01
72 T	4-Ethyltoluene	10.000	10.248	-2.5	80	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.472	-4.7	80	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.521	-5.2	83	0.00
75 T	1,3-Dichlorobenzene	10.000	10.203	-2.0	80	0.00
76 T	1,4-Dichlorobenzene	10.000	10.293	-2.9	80	0.00
77 T	1,2-Dichlorobenzene	10.000	10.247	-2.5	81	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.956	10.4	76	0.00
79 T	Naphthalene	10.000	11.001	-10.0	75	0.00
80 T	Naphthalene,2-methyl-	10.000	8.892	11.1	64	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.684	-6.8	75	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042984.D
 Acq On : 23 Sep 2025 10:01
 Operator : SY/MD
 Sample : VL0923ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	140749	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	395903	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	343517	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	271935	10.605	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.000%

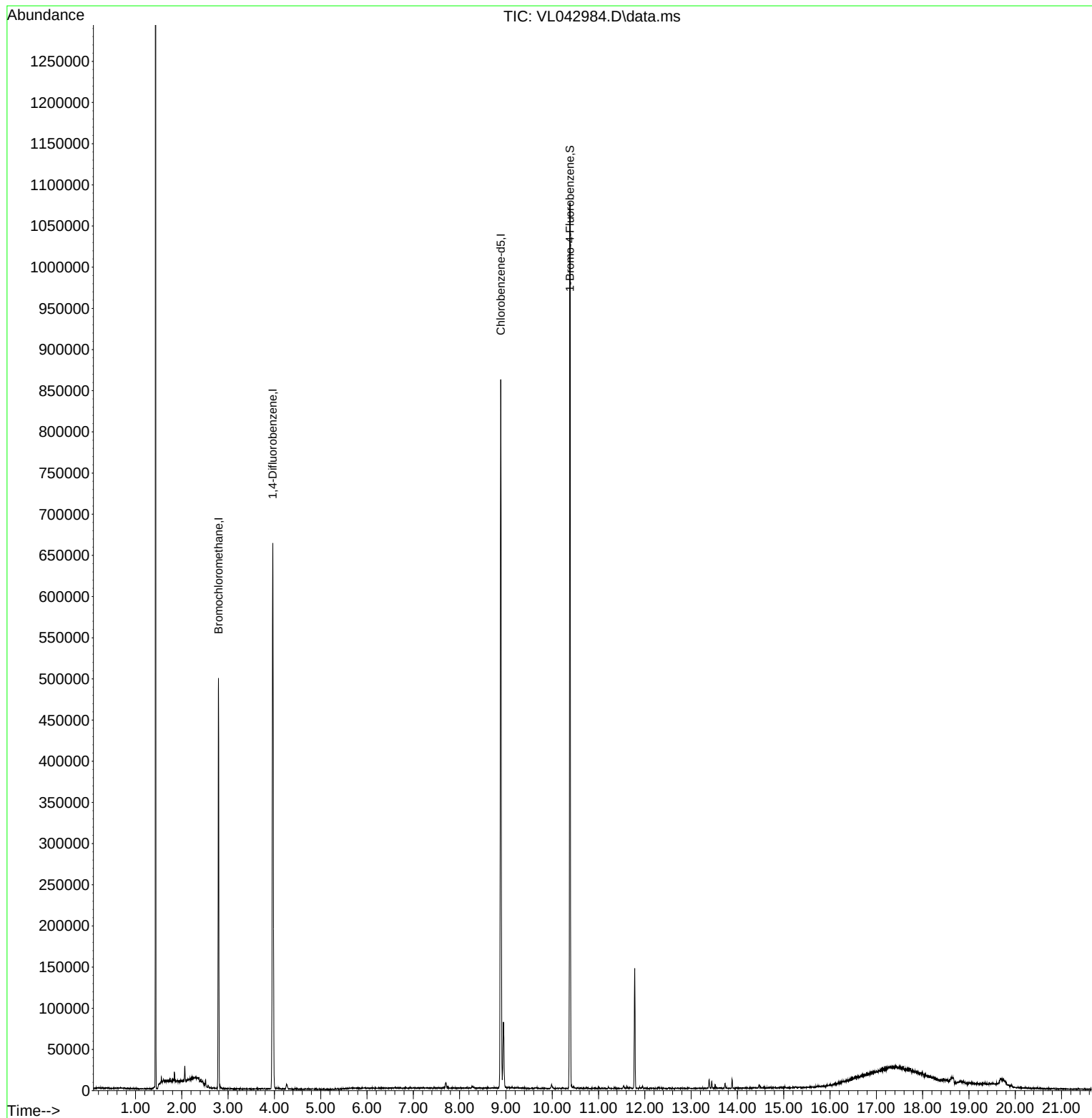
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042984.D
Acq On : 23 Sep 2025 10:01
Operator : SY/MD
Sample : VL0923ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0923ABL01

Quant Time: Sep 24 02:05:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042985.D
 Acq On : 23 Sep 2025 10:46
 Operator : SY/MD
 Sample : VL0923ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0923ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025
 Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:05:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	141345	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	400881	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	355060	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 285118 10.757 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	189707	9.979	ppbv	98
3) Chlorodifluoromethane	1.476	51	229022	9.665	ppbv	96
4) Chloromethane	1.534	50	80187	9.319	ppbv	99
5) Vinyl Chloride	1.580	62	68503	8.806	ppbv	98
6) Bromomethane	1.667	94	24823	9.046	ppbv	97
7) Chloroethane	1.706	64	27737	9.182	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	155561	9.585	ppbv	99
9) Propene	1.482	41	83859	8.135	ppbv	96
10) Heptane	4.981	43	244830	8.900	ppbv	99
11) Trichlorofluoromethane	1.877	101	187304	10.218	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	145246	9.785	ppbv	100
13) Ethanol	1.722	45	6053	6.053	ppbv	93
14) Bromoethene	1.783	108	52420	9.341	ppbv	99
15) Acetone	1.835	43	151197	8.213	ppbv	95
16) 1,3-Butadiene	1.609	39	75511	8.696	ppbv	95
17) tert-Butyl alcohol	2.039	59	167211	8.281	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65099	9.475	ppbv	98
19) Isopropyl Alcohol	1.887	45	91978	8.311	ppbv	95
20) Methylene Chloride	2.062	84	56301	10.276	ppbv	99
21) Allyl Chloride	2.097	41	119358	9.310	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	74438	9.534	ppbv	97
23) Vinyl Acetate	2.463	43	213995	8.137	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	146400	9.562	ppbv	98
25) Ethyl Acetate	2.835	43	424873	9.132	ppbv	99
26) Hexane	2.826	57	189786	8.948	ppbv	98
27) Carbon Disulfide	2.149	76	171644	9.023	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	84694	7.682	ppbv	95
29) Chloroform	2.848	83	283787	10.233	ppbv	99
30) Cyclohexane	3.855	84	158294	8.927	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	189377	9.532	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	273236	9.122	ppbv	98
34) 2-Butanone	2.557	43	277525	9.878	ppbv	100
35) Carbon Tetrachloride	3.764	117	284218	10.890	ppbv	99
36) Benzene	3.657	78	374729	9.954	ppbv	97
37) 1,2-Dichloroethane	3.217	62	225333	11.381	ppbv	97
38) Trichloroethene	4.548	130	175469	9.379	ppbv	95
39) 1,2-Dichloropropane	4.315	63	137775	10.025	ppbv	94
40) 1,4-Dioxane	4.577	88	56926	8.908	ppbv #	99
41) Tetrahydrofuran	3.052	42	153071	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	301564	10.937	ppbv	98
43) Methyl Methacrylate	4.878	69	143822	9.338	ppbv	99
44) 2,2,4-Trimethylpentane	4.641	57	644168	9.907	ppbv	97
45) t-1,3-Dichloropropene	6.415	75	146403	8.913	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042985.D
 Acq On : 23 Sep 2025 10:46
 Operator : SY/MD
 Sample : VL0923ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0923ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/24/2025
 Supervised By :Mahesh Dadoda 09/26/2025

Quant Time: Sep 24 02:05:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	199882	9.548	ppbv	98
47) 1,1,2-Trichloroethane	6.580	97	146862	10.114	ppbv	98
48) Dibromochloromethane	7.389	129	239646	10.315	ppbv	100
49) Bromoform	9.487	173	200469	9.920	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376317	9.994	ppbv	98
51) 2-Hexanone	7.438	43	296793	9.888	ppbv #	96
52) Tetrachloroethene	8.228	164	129889	8.917	ppbv	97
53) Toluene	6.933	91	429817	9.647	ppbv	100
54) 1,2-Dibromoethane	7.655	107	207545	10.155	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	178090	10.479	ppbv	99
57) Chlorobenzene	8.924	112	334709	10.326	ppbv	97
58) Ethyl Benzene	9.357	91	594235	10.192	ppbv	99
59) m/p-Xylene	9.551	91	960667m	20.900	ppbv	
60) o-Xylene	9.966	91	478503	10.416	ppbv	99
61) Styrene	9.872	104	213951	9.846	ppbv	99
62) Isopropylbenzene	10.542	105	701023	10.237	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.962	83	246097	10.192	ppbv	99
64) n-propylbenzene	10.992	120	182650	10.207	ppbv	96
65) tert-Butylbenzene	11.532	119	617982	10.146	ppbv	99
66) Benzyl Chloride	11.616	91	37909	5.932	ppbv	96
67) sec-Butylbenzene	11.769	105	870866	10.261	ppbv	98
69) p-Isopropyltoluene	11.927	119	731903	10.209	ppbv	98
70) n-Butylbenzene	12.283	91	755608	10.795	ppbv	98
71) 2-Chlorotoluene	10.901	91	536204	10.370	ppbv	97
72) 4-Ethyltoluene	11.124	105	591673	10.283	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	488186	10.461	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	537697	10.434	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	320019	10.013	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	325338	10.250	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	313262	10.302	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	213384	8.972	ppbv	99
79) Naphthalene	13.513	128	492107	10.799	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	129885	9.227	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	258061	10.592	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042986.D
 Acq On : 23 Sep 2025 11:40
 Operator : SY/MD
 Sample : CAN 10147
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10147

Quant Time: Sep 24 02:06:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	154371	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	426080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	377171	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	285367	10.136	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

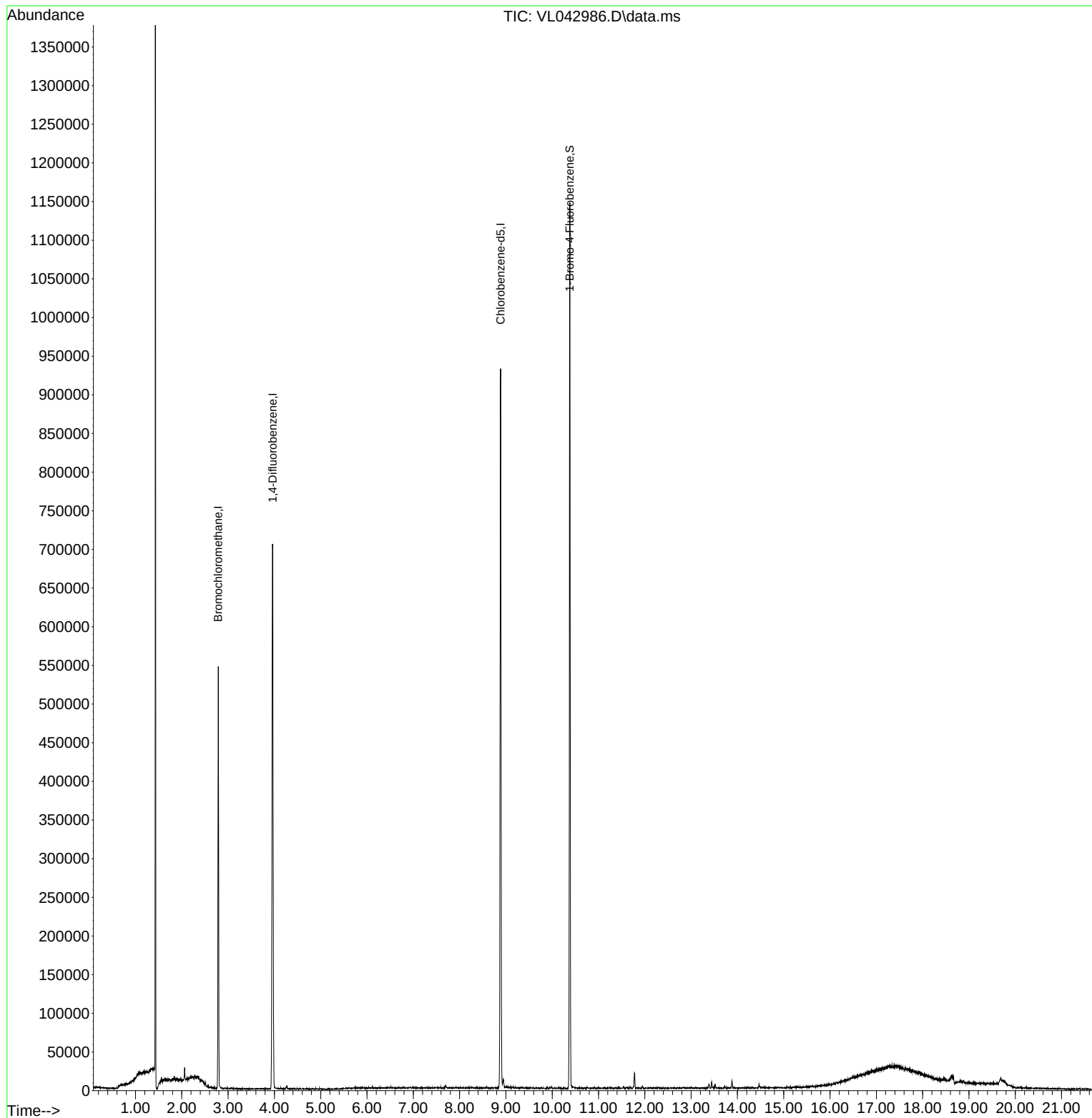
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042986.D
Acq On : 23 Sep 2025 11:40
Operator : SY/MD
Sample : CAN 10147
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10147

Quant Time: Sep 24 02:06:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042987.D
 Acq On : 23 Sep 2025 12:15
 Operator : SY/MD
 Sample : CAN 10136
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10136

Quant Time: Sep 24 02:07:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	153643	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	426826	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	380214	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	292681	10.312	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.100%

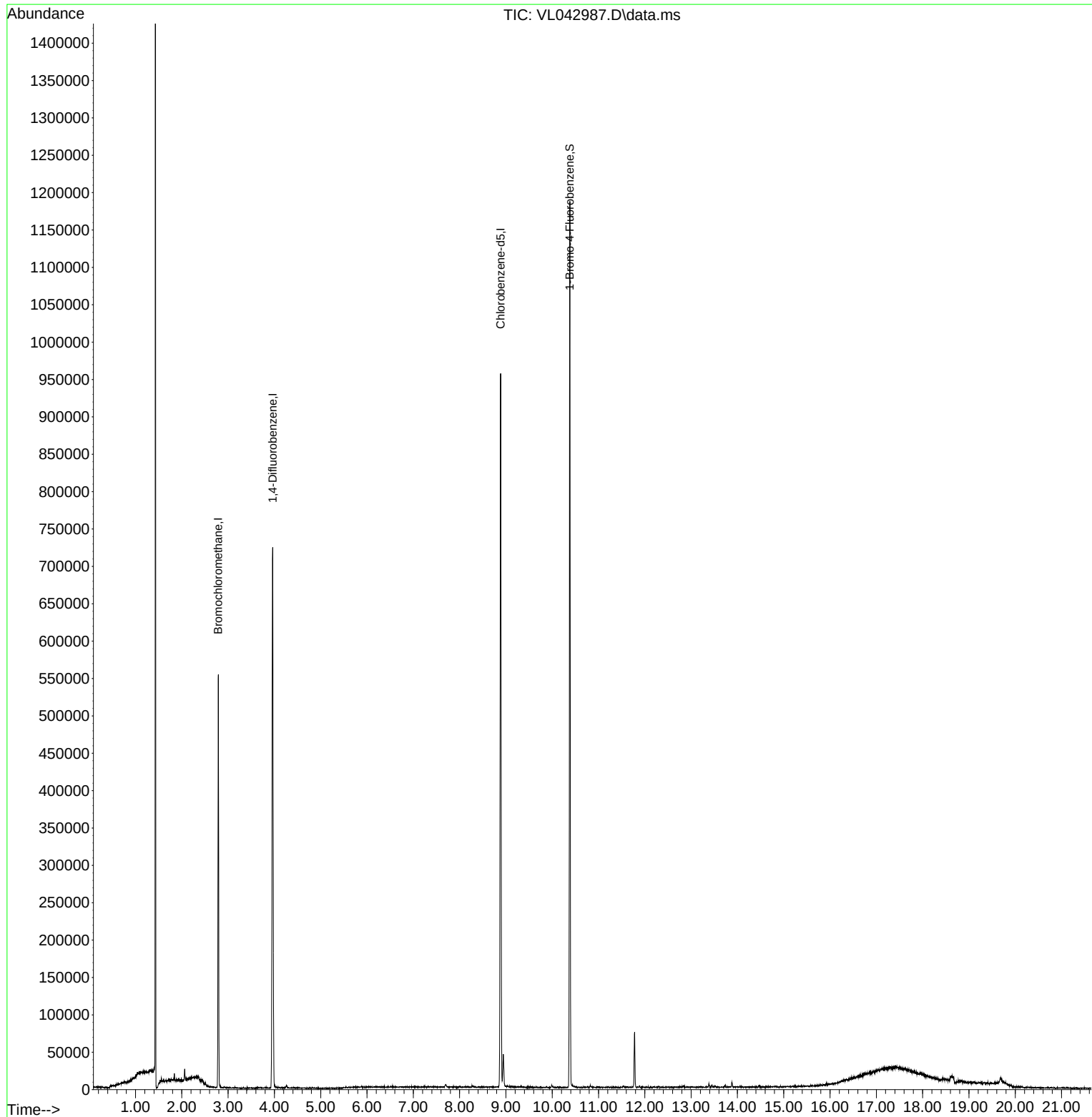
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042987.D
Acq On : 23 Sep 2025 12:15
Operator : SY/MD
Sample : CAN 10136
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10136

Quant Time: Sep 24 02:07:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042988.D
 Acq On : 23 Sep 2025 12:50
 Operator : SY/MD
 Sample : CAN 10684
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10684

Quant Time: Sep 24 02:07:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	150626	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	414249	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	367143	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	285271	10.409	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%

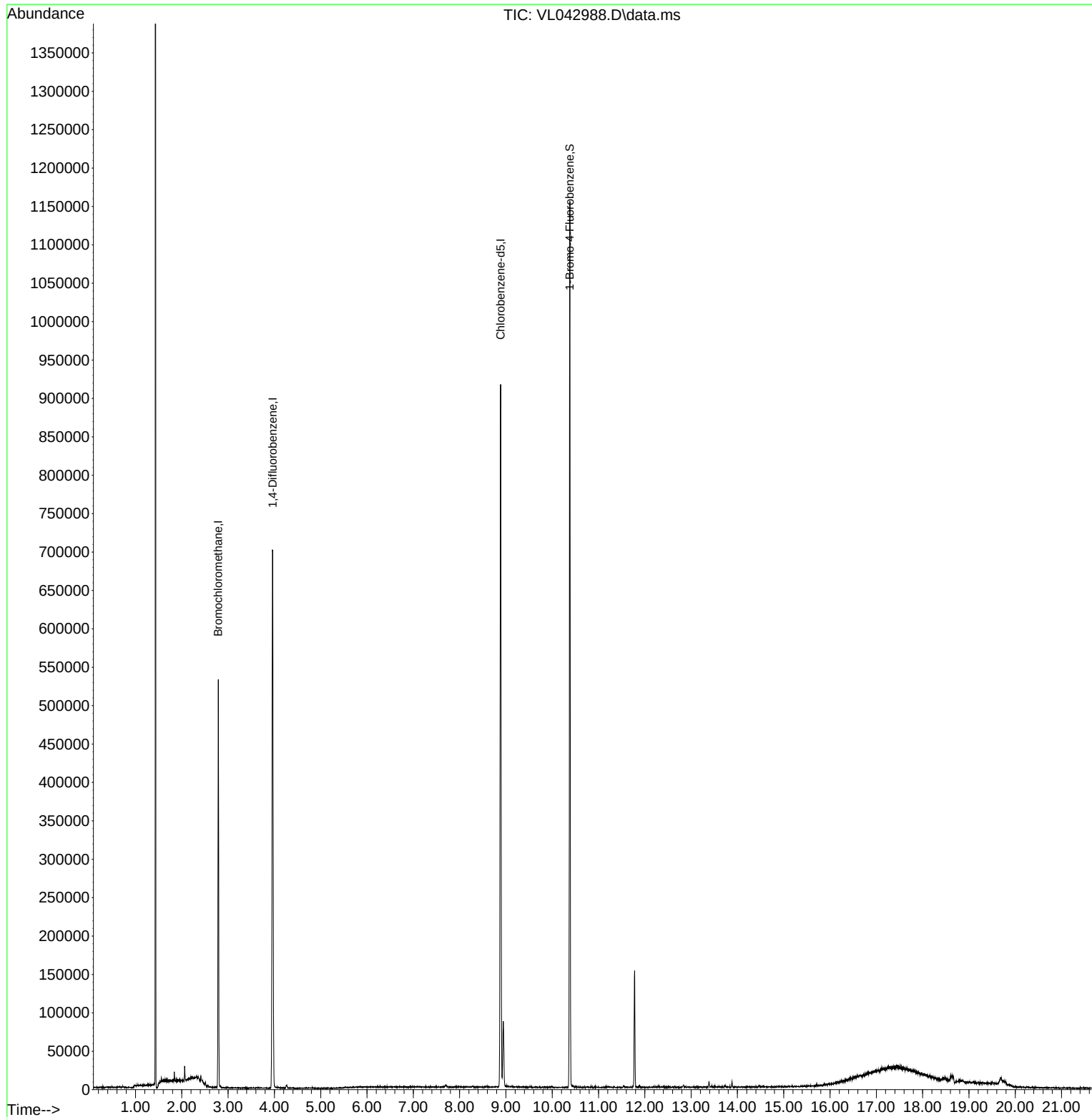
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042988.D
Acq On : 23 Sep 2025 12:50
Operator : SY/MD
Sample : CAN 10684
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10684

Quant Time: Sep 24 02:07:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042989.D
Acq On : 23 Sep 2025 13:26
Operator : SY/MD
Sample : CAN 10747
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10747

Quant Time: Sep 24 02:07:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	149203	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	404080	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	359428	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	280412	10.451	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%

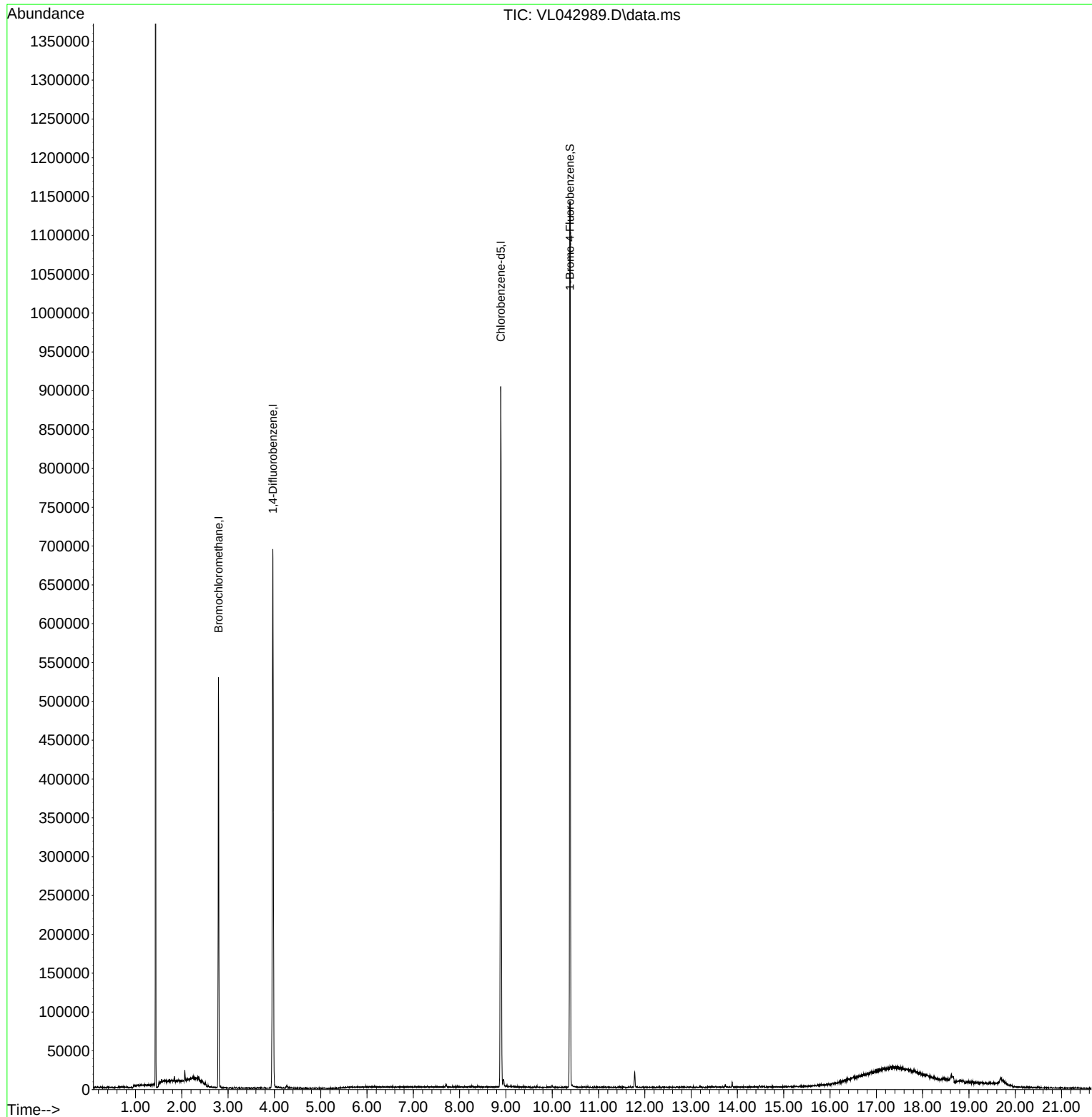
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042989.D
Acq On : 23 Sep 2025 13:26
Operator : SY/MD
Sample : CAN 10747
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10747

Quant Time: Sep 24 02:07:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042990.D
 Acq On : 23 Sep 2025 14:01
 Operator : SY/MD
 Sample : CAN 10420
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10420

Quant Time: Sep 24 02:08:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	148605	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	398892	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	359223	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	277718	10.357	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.600%

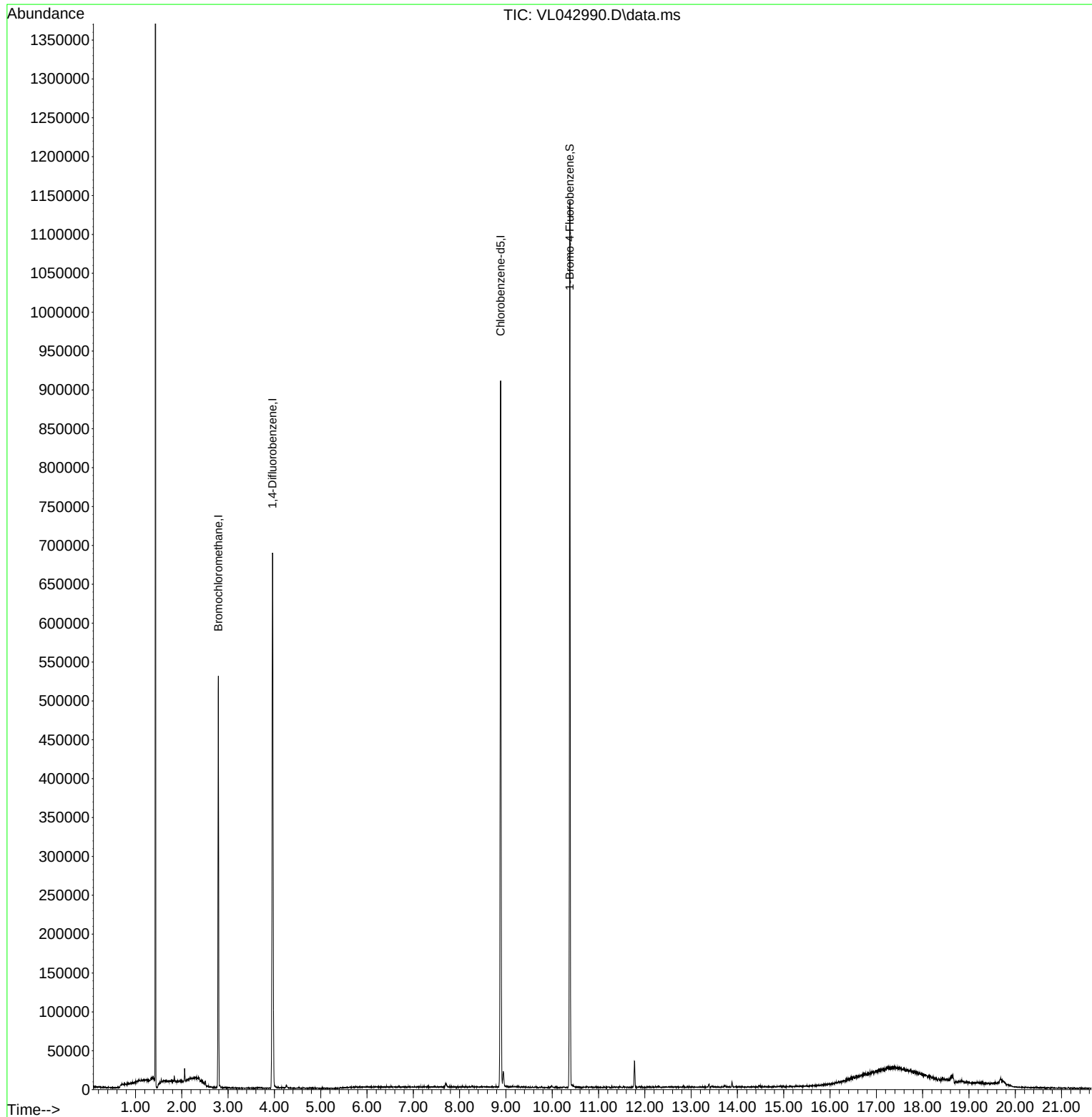
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042990.D
Acq On : 23 Sep 2025 14:01
Operator : SY/MD
Sample : CAN 10420
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10420

Quant Time: Sep 24 02:08:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042991.D
 Acq On : 23 Sep 2025 14:37
 Operator : SY/MD
 Sample : CAN 10743
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10743

Quant Time: Sep 24 02:08:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	150038	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400893	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	357176	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	279312	10.476	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%

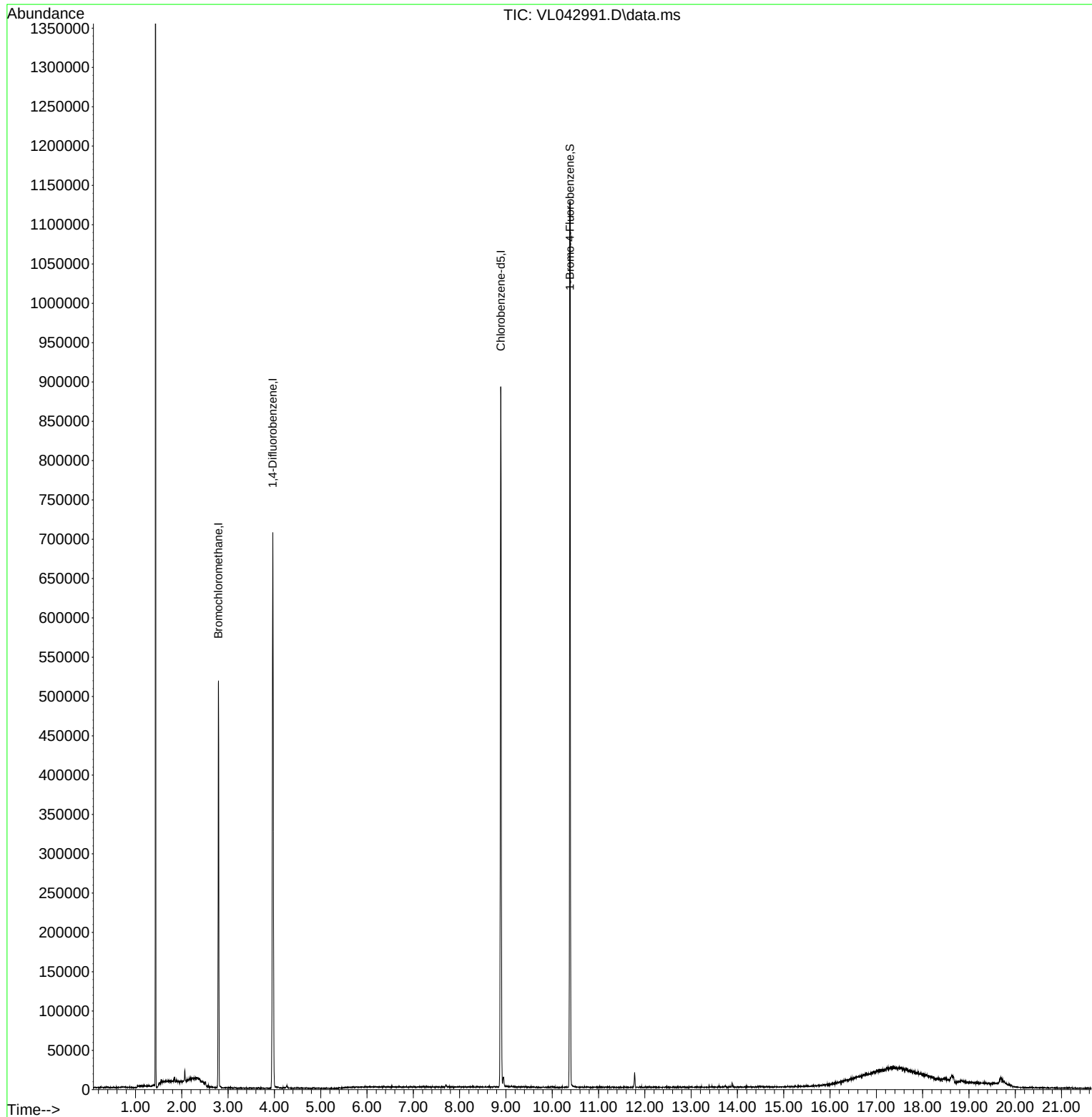
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042991.D
Acq On : 23 Sep 2025 14:37
Operator : SY/MD
Sample : CAN 10743
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10743

Quant Time: Sep 24 02:08:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042992.D
 Acq On : 23 Sep 2025 15:13
 Operator : SY/MD
 Sample : CAN 10668
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10668

Quant Time: Sep 24 02:08:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	151280	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	401722	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	356384	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	274066	10.302	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%

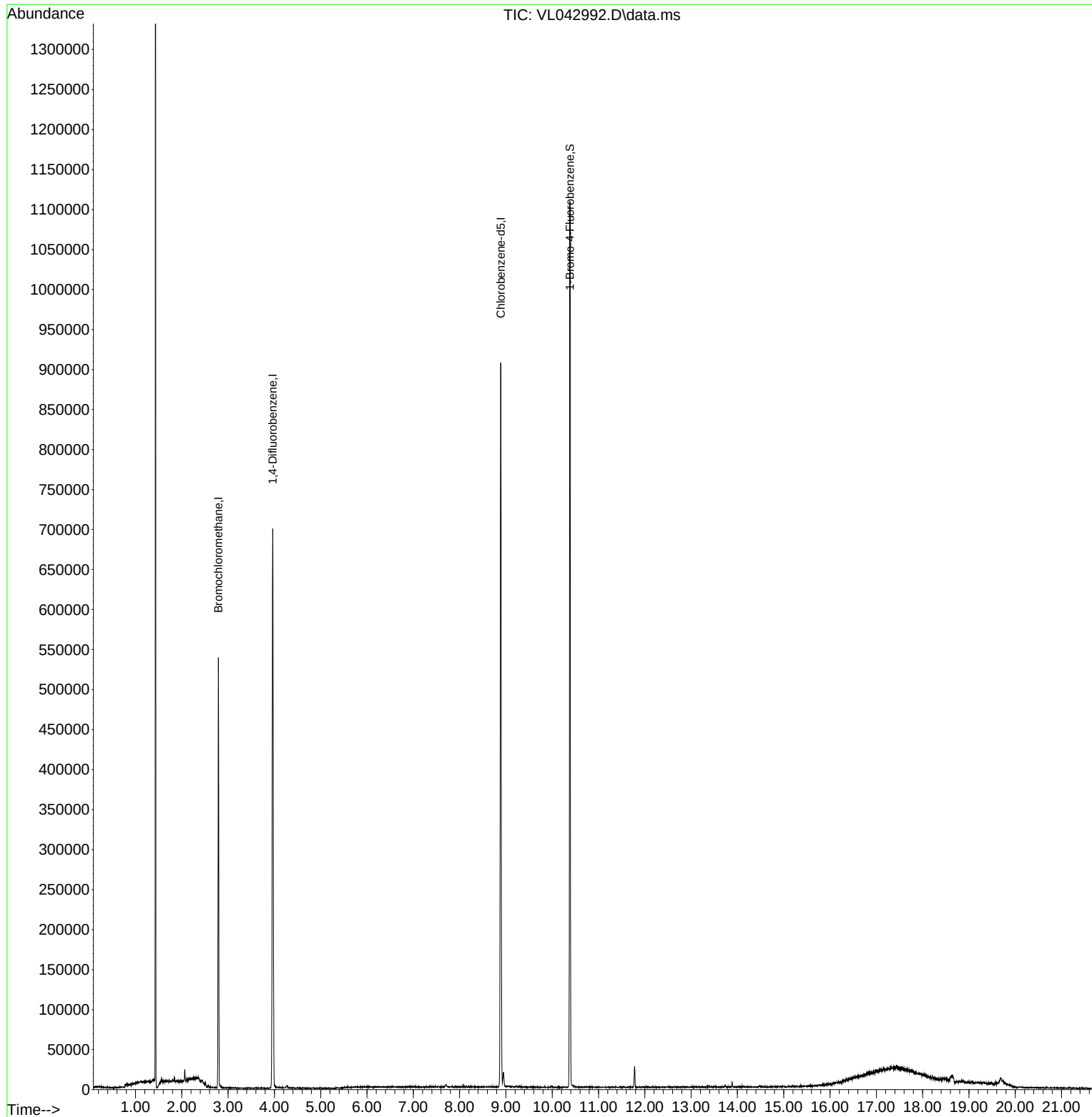
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
Data File : VL042992.D
Acq On : 23 Sep 2025 15:13
Operator : SY/MD
Sample : CAN 10668
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CAN 10668

Quant Time: Sep 24 02:08:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration



Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICCC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICCC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICCC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICCC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICCC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICCC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	CAN10053	VL042599.D	29 May 2025 22:52	SY/MD	Ok
23	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26	SY/MD	Ok
24	Q2124-01DUP	VL042601.D	29 May 2025 23:58	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL091725

Review By	Semsettin Yesilyurt	Review On	9/18/2025 8:35:15 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:24:41 PM		
SubDirectory	VL091725	HP Acquire Method	TO15AIR	HP Processing Method	VL091725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2664			
Initial Calibration Stds		AP2666,AP2668,AP2669			
CCC		AP2666			
Internal Standard/PEM		AP2664			
ICV/I.BLK		AP2671			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042928.D	17 Sep 2025 07:51	SY/MD	Ok
2	VSTDICCC010	VL042929.D	17 Sep 2025 10:12	SY/MD	Not Ok
3	VSTDICCC002	VL042930.D	17 Sep 2025 10:48	SY/MD	Ok,M
4	VSTDICCC001	VL042931.D	17 Sep 2025 11:23	SY/MD	Ok,M
5	VSTDICCC0.5	VL042932.D	17 Sep 2025 11:58	SY/MD	Ok,M
6	VSTDICCC0.1	VL042933.D	17 Sep 2025 12:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042934.D	17 Sep 2025 13:07	SY/MD	Ok,M
8	VSTDICCC010	VL042935.D	17 Sep 2025 13:42	SY/MD	Ok,M
9	VSTDICCC015	VL042936.D	17 Sep 2025 14:17	SY/MD	Ok,M
10	VSTDICCV010	VL042937.D	17 Sep 2025 14:52	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL091825

Review By	Semsettin Yesilyurt	Review On	9/19/2025 9:39:49 AM
Supervise By	Maresh Dadoda	Supervise On	9/24/2025 2:15:54 AM
SubDirectory	VL091825	HP Acquire Method	TO15AIR
		HP Processing Method	VL091725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2664		
Initial Calibration Stds	AP2666,AP2668,AP2669		
CCC	AP2666		
Internal Standard/PEM	AP2664		
ICV/I.BLK	AP2671		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042938.D	18 Sep 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042939.D	18 Sep 2025 09:38	SY/MD	Ok,M
3	VL0918ABL01	VL042940.D	18 Sep 2025 11:01	SY/MD	Ok
4	VL0918ABS01	VL042941.D	18 Sep 2025 11:37	SY/MD	Not Ok
5	QC091125 CAN 10060	VL042942.D	18 Sep 2025 12:14	SY/MD	Ok
6	VL0918ABS02	VL042943.D	18 Sep 2025 12:49	SY/MD	Ok,M
7	Q3111-02DL	VL042944.D	18 Sep 2025 14:01	SY/MD	Not Ok
8	Q3111-02	VL042945.D	18 Sep 2025 14:37	SY/MD	Dilution
9	Q3111-02DUP	VL042946.D	18 Sep 2025 15:13	SY/MD	Ok,M
10	Q3111-02DL	VL042947.D	18 Sep 2025 15:50	SY/MD	Ok,M
11	Q3111-01	VL042948.D	18 Sep 2025 16:30	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Mahesh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2676			
Initial Calibration Stds		AP2673,AP2674,AP2675			
CCC		AP2673			
Internal Standard/PEM		AP2676			
ICV/I.BLK		AP2671			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042949.D	22 Sep 2025 08:55	SY/MD	Ok
2	VSTDICCC010	VL042950.D	22 Sep 2025 09:39	SY/MD	Ok,M
3	VSTDICCC002	VL042951.D	22 Sep 2025 10:14	SY/MD	Ok,M
4	VSTDICCC001	VL042952.D	22 Sep 2025 10:48	SY/MD	Ok,M
5	VSTDICCC0.5	VL042953.D	22 Sep 2025 11:22	SY/MD	Ok,M
6	VSTDICCC0.1	VL042954.D	22 Sep 2025 11:56	SY/MD	Ok,M
7	VSTDICCC0.03	VL042955.D	22 Sep 2025 12:30	SY/MD	Ok,M
8	VSTDICCC015	VL042956.D	22 Sep 2025 13:05	SY/MD	Ok,M
9	VSTDICV010	VL042957.D	22 Sep 2025 14:15	SY/MD	Ok,M
10	VL0922ABL01	VL042958.D	22 Sep 2025 15:06	SY/MD	Ok
11	VL0922ABS01	VL042959.D	22 Sep 2025 15:52	SY/MD	Ok,M
12	Q3111-01	VL042960.D	22 Sep 2025 16:53	SY/MD	Dilution
13	Q3111-01DL	VL042961.D	22 Sep 2025 17:28	SY/MD	Ok,M
14	Q3112-01	VL042962.D	22 Sep 2025 18:04	SY/MD	Ok,M
15	Q3112-01DL	VL042963.D	22 Sep 2025 18:39	SY/MD	Not Ok
16	Q3112-02	VL042964.D	22 Sep 2025 19:14	SY/MD	Dilution
17	Q3112-02DL	VL042965.D	22 Sep 2025 19:49	SY/MD	Ok
18	Q3112-03	VL042966.D	22 Sep 2025 20:24	SY/MD	Ok,M
19	Q3112-03DL	VL042967.D	22 Sep 2025 20:59	SY/MD	Not Ok
20	VIBLK	VL042968.D	22 Sep 2025 21:35	SY/MD	Ok
21	Q3130-02	VL042969.D	22 Sep 2025 22:11	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092225

Review By	Maresh Dadoda	Review On	9/24/2025 2:18:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/24/2025 2:26:00 AM		
SubDirectory	VL092225	HP Acquire Method	TO15AIR	HP Processing Method	VL092225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2676				
Initial Calibration Stds	AP2673,AP2674,AP2675				
CCC	AP2673				
Internal Standard/PEM	AP2676				
ICV/I.BLK	AP2671				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3130-02DUP	VL042970.D	22 Sep 2025 22:48	SY/MD	Ok,M
23	Q3130-02DL	VL042971.D	22 Sep 2025 23:23	SY/MD	Not Ok
24	Q3130-01	VL042972.D	23 Sep 2025 00:00	SY/MD	Ok,M
25	Q3130-01DL	VL042973.D	23 Sep 2025 00:35	SY/MD	Not Ok
26	Q3131-01	VL042974.D	23 Sep 2025 01:11	SY/MD	Dilution
27	Q3131-01DL	VL042975.D	23 Sep 2025 01:46	SY/MD	Ok,M
28	Q3131-02	VL042976.D	23 Sep 2025 02:22	SY/MD	Dilution
29	Q3131-02DL	VL042977.D	23 Sep 2025 02:57	SY/MD	Ok,M
30	Q3132-01	VL042978.D	23 Sep 2025 03:33	SY/MD	Dilution
31	Q3132-01DL	VL042979.D	23 Sep 2025 04:08	SY/MD	Ok,M
32	Q3132-02	VL042980.D	23 Sep 2025 04:44	SY/MD	Ok,M
33	Q3132-02DL	VL042981.D	23 Sep 2025 05:19	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL092325

Review By	Semsettin Yesilyurt	Review On	9/24/2025 9:13:51 AM
Supervise By	Maresh Dadoda	Supervise On	9/26/2025 1:40:16 AM
SubDirectory	VL092325	HP Acquire Method	TO15AIR
		HP Processing Method	VL092225AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2676		
Initial Calibration Stds	AP2673,AP2674,AP2675		
CCC	AP2673		
Internal Standard/PEM	AP2676		
ICV/I.BLK	AP2671		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042982.D	23 Sep 2025 08:30	SY/MD	Ok
2	VSTDCCC010	VL042983.D	23 Sep 2025 09:14	SY/MD	Ok,M
3	VL0923ABL01	VL042984.D	23 Sep 2025 10:01	SY/MD	Ok
4	VL0923ABS01	VL042985.D	23 Sep 2025 10:46	SY/MD	Ok,M
5	CAN 10147	VL042986.D	23 Sep 2025 11:40	SY/MD	Ok
6	CAN 10136	VL042987.D	23 Sep 2025 12:15	SY/MD	Ok
7	CAN 10684	VL042988.D	23 Sep 2025 12:50	SY/MD	Ok
8	CAN 10747	VL042989.D	23 Sep 2025 13:26	SY/MD	Ok
9	CAN 10420	VL042990.D	23 Sep 2025 14:01	SY/MD	Ok
10	CAN 10743	VL042991.D	23 Sep 2025 14:37	SY/MD	Ok
11	CAN 10668	VL042992.D	23 Sep 2025 15:13	SY/MD	Ok
12	Q2893-14 0.5 PPB LOQ	VL042993.D	23 Sep 2025 15:49	SY/MD	ReRun
13	Q2893-14 0.1 PPB LOQ	VL042994.D	23 Sep 2025 16:25	SY/MD	Ok,M
14	Q2893-13 0.45	VL042995.D	23 Sep 2025 17:01	SY/MD	Ok,M
15	Q2893-13 0.40	VL042996.D	23 Sep 2025 17:36	SY/MD	Ok,M
16	Q2893-13 0.1	VL042997.D	23 Sep 2025 18:12	SY/MD	Ok,M
17	Q2893-13 0.03	VL042998.D	23 Sep 2025 18:48	SY/MD	Ok,M
18	Q2893-14 0.03	VL042999.D	23 Sep 2025 19:24	SY/MD	ReRun

M : Manual Integration