

Process Report

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

Order ID : Q2750

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
08/01/2025	B2507054	Q2750-04	-4.3	10606	6 L	10222		C2506003	VL042702.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-03	-6.7	10601	6 L	10207		C2506003	VL042702.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-09	-6.7	10590	6 L	10190		C2507001	VL042703.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-05	-6.3	10492	6 L	10478		C2506003	VL042702.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-06	-5.1	10321	6 L	10785		C2506003	VL042702.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-08	-5.9	10315	6 L	10206		C2506003	VL042702.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D

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Order ID : Q2750

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
08/01/2025	B2507054	Q2750-01	-4.7	10280	6 L	10110		C2506003	VL042702.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-02	-6.7	10279	6 L	10172		C2505005	VL042598.D Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D
08/01/2025	B2507054	Q2750-07	-5.5	10198	6 L	10771		C2506003	VL042702.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
08/01/2025	B2507054	Q2750-10	-9.6	10153	6 L	10537		C2507001	VL042703.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D



Canister Cleaning

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

Canister Batch : C2507001

Type of Canister : 6 L

Cleaning Date : 07/02/2025

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	07/03/2025	07/03/2025	-30	07/07/2025	Q2750-10	10311	VL042703.D
10598	-30	07/03/2025	07/03/2025	-30	07/07/2025		10311	VL042703.D
10590	-30	07/03/2025	07/03/2025	-30	07/07/2025	Q2750-09	10311	VL042703.D
10311	-30	07/03/2025	07/03/2025	-30	07/07/2025		10311	VL042703.D



Canister Cleaning

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

Canister Batch : C2506003

Type of Canister : 6 L

Cleaning Date : 06/30/2025

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
10606	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-04	10606	VL042702.D
10321	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-06	10606	VL042702.D
10280	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-01	10606	VL042702.D
10492	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-05	10606	VL042702.D
10315	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-08	10606	VL042702.D
10588	-30	07/01/2025	07/03/2025	-30	07/02/2025		10606	VL042702.D
10601	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-03	10606	VL042702.D
10198	-30	07/01/2025	07/03/2025	-30	07/02/2025	Q2750-07	10606	VL042702.D



Canister Cleaning

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

Canister Batch : C2505005

Type of Canister : 6 L

Cleaning Date : 05/27/2025

Analyst : SAM

Oven Temperature : 125.0 c

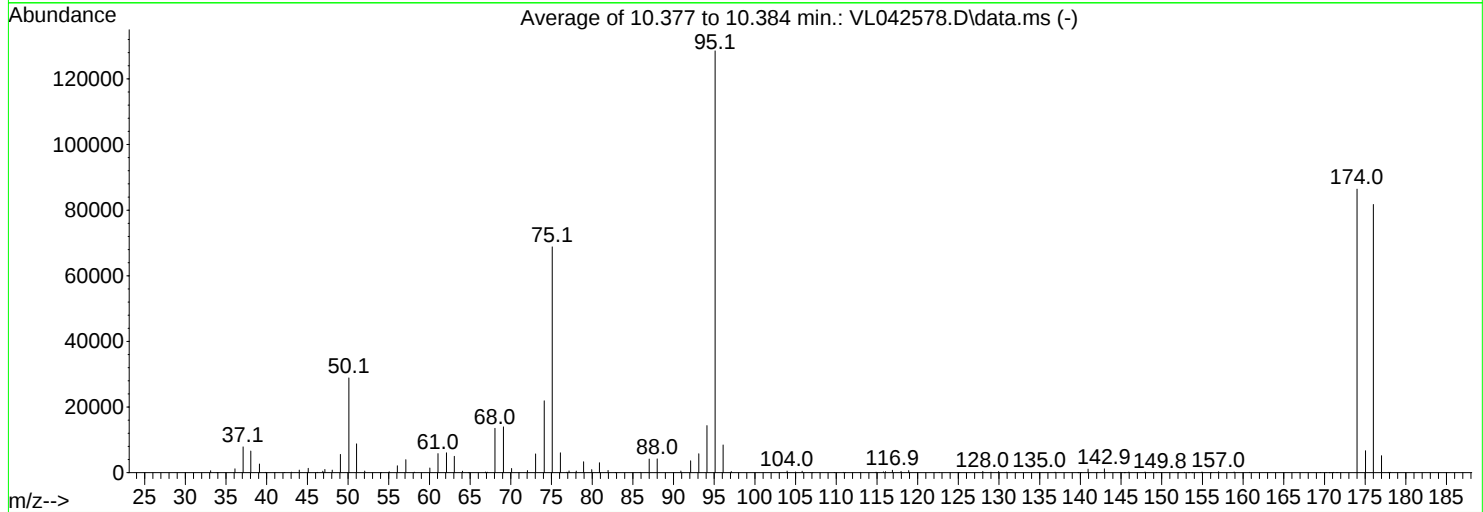
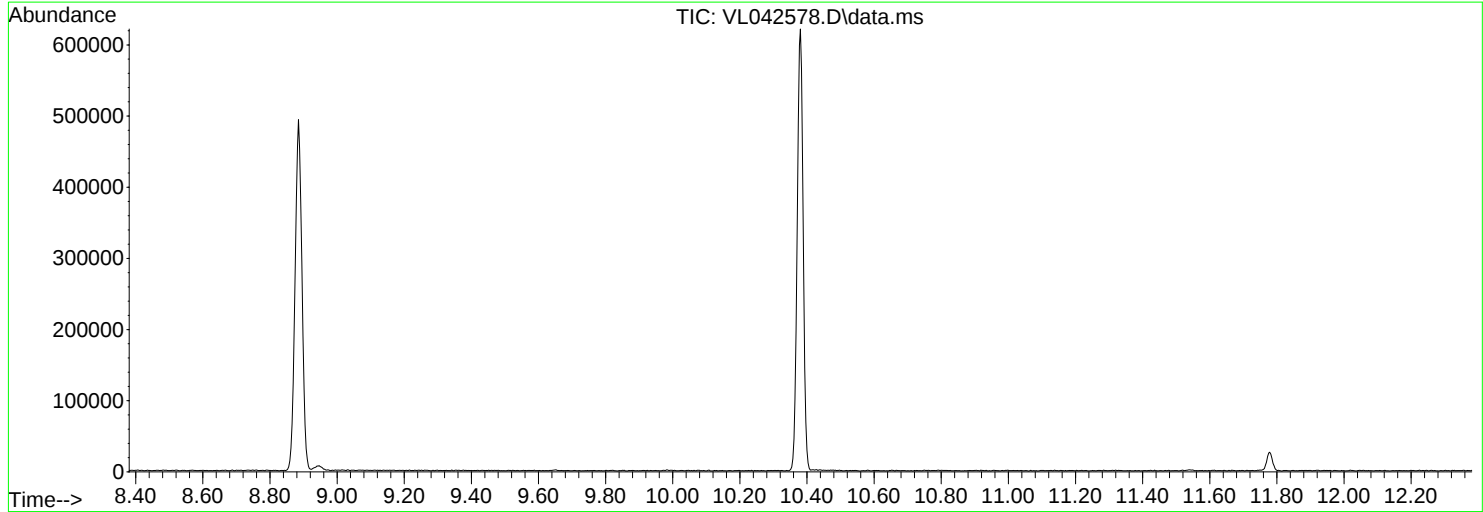
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10279	-30	05/28/2025	05/29/2025	-30	05/29/2025	Q2750-02	10609	VL042598.D
10609	-30	05/28/2025	05/29/2025	-30	05/29/2025		10609	VL042598.D
10296	-30	05/28/2025	05/29/2025	-30	05/29/2025		10609	VL042598.D
10604	-30	05/28/2025	05/29/2025	-30	05/29/2025		10609	VL042598.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 Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result 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

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

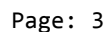
Response via : Initial Calibration

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

Manual Integrations APPROVED

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_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 : 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_LFri 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

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

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 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	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							
							Qvalue
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

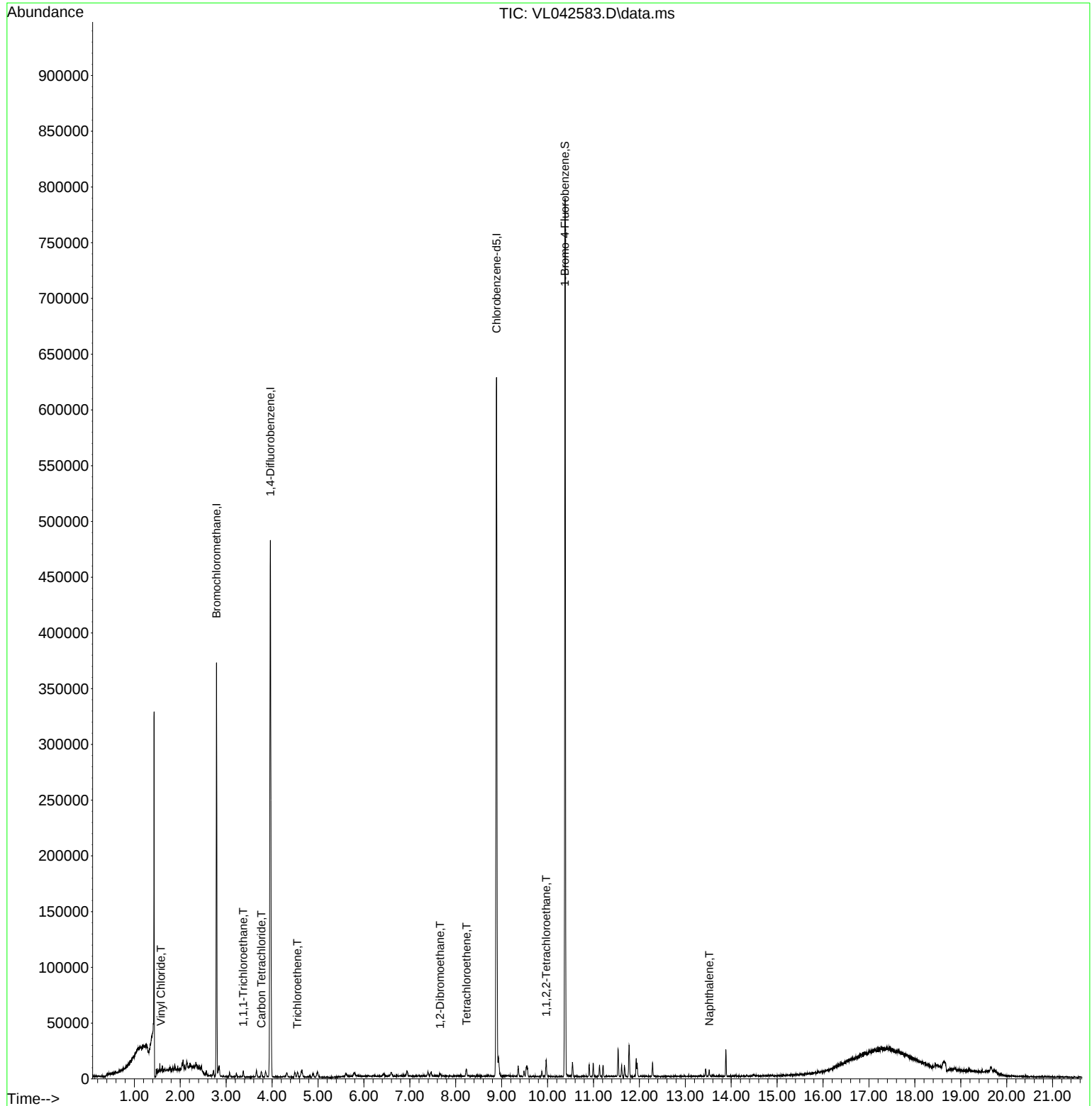
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

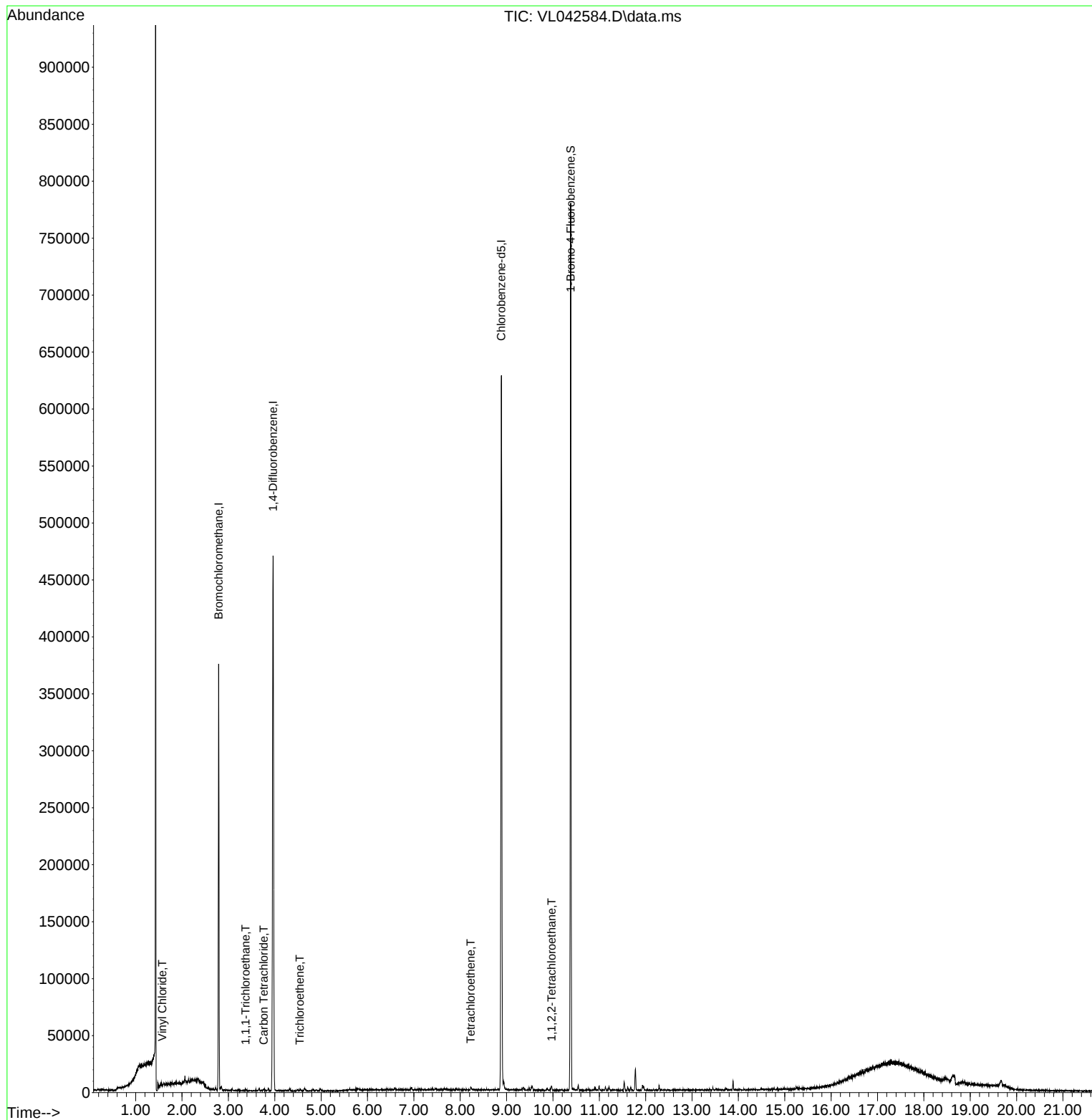
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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 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	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

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_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	5.609	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

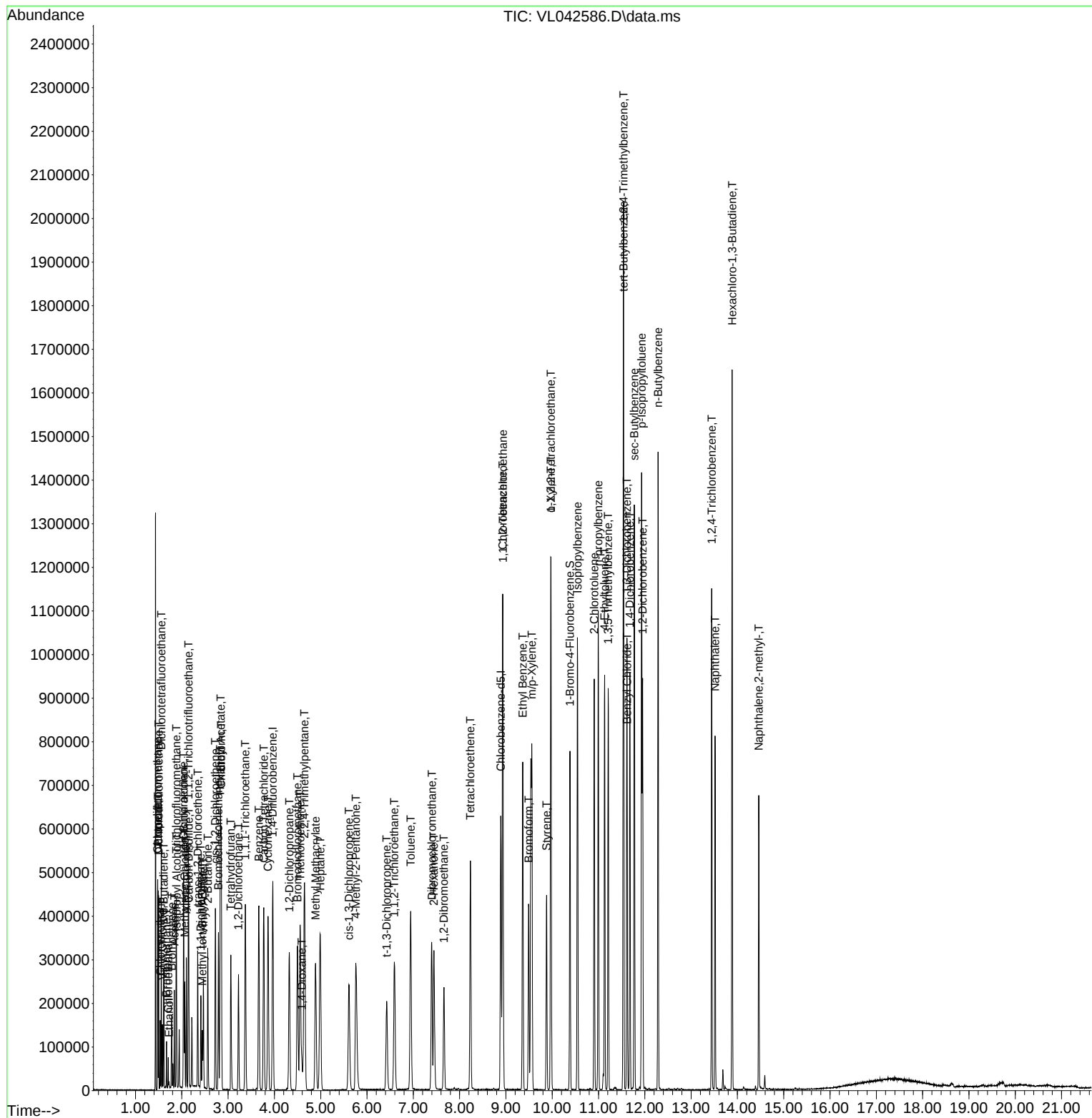
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042586.D
Acq On : 29 May 2025 14:56
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL052925

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
QLast Update : Fri May 30 02:01:56 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

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 : 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%

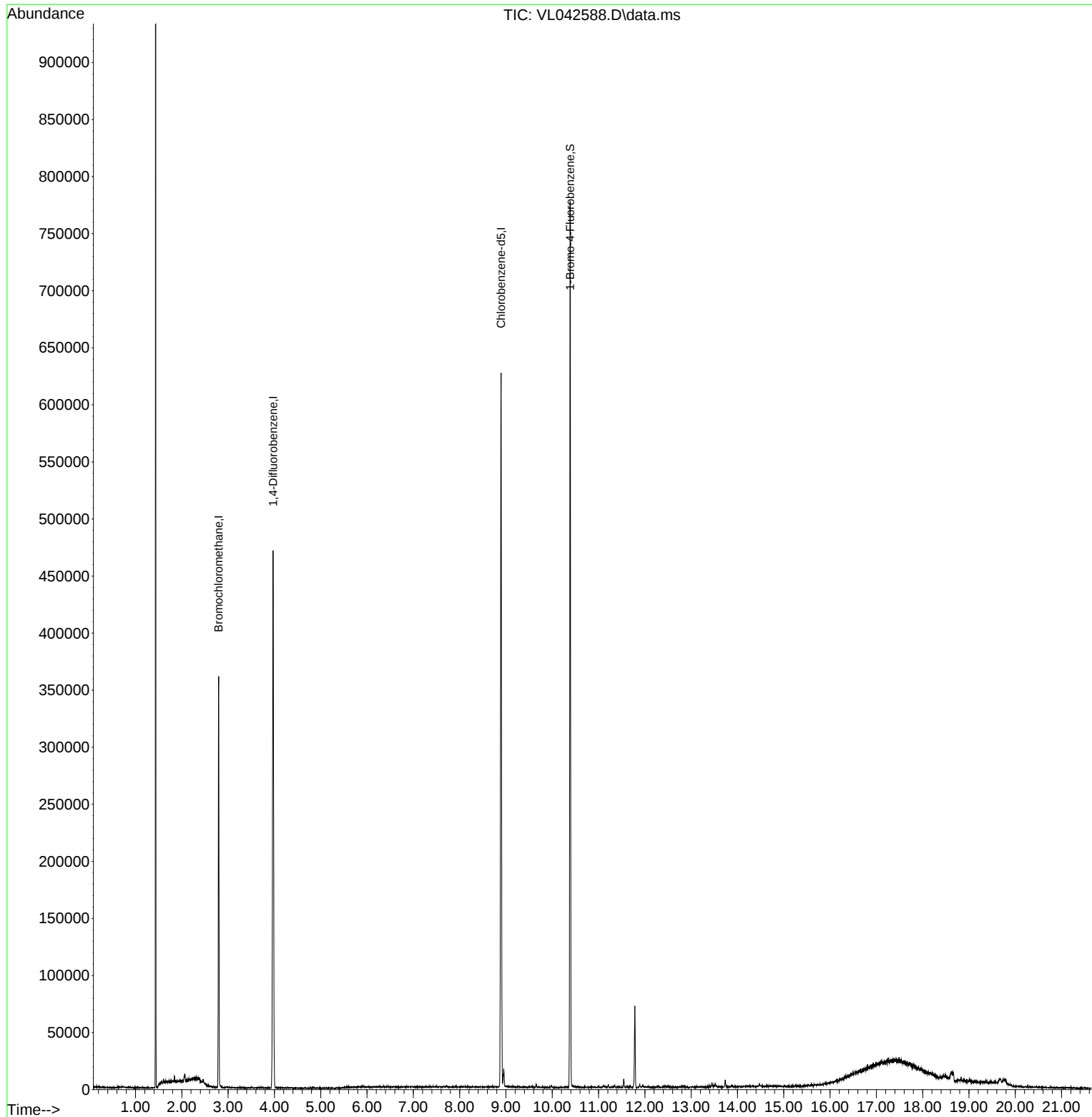
Target Compounds	Qvalue

(#) = 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_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	2.797	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%

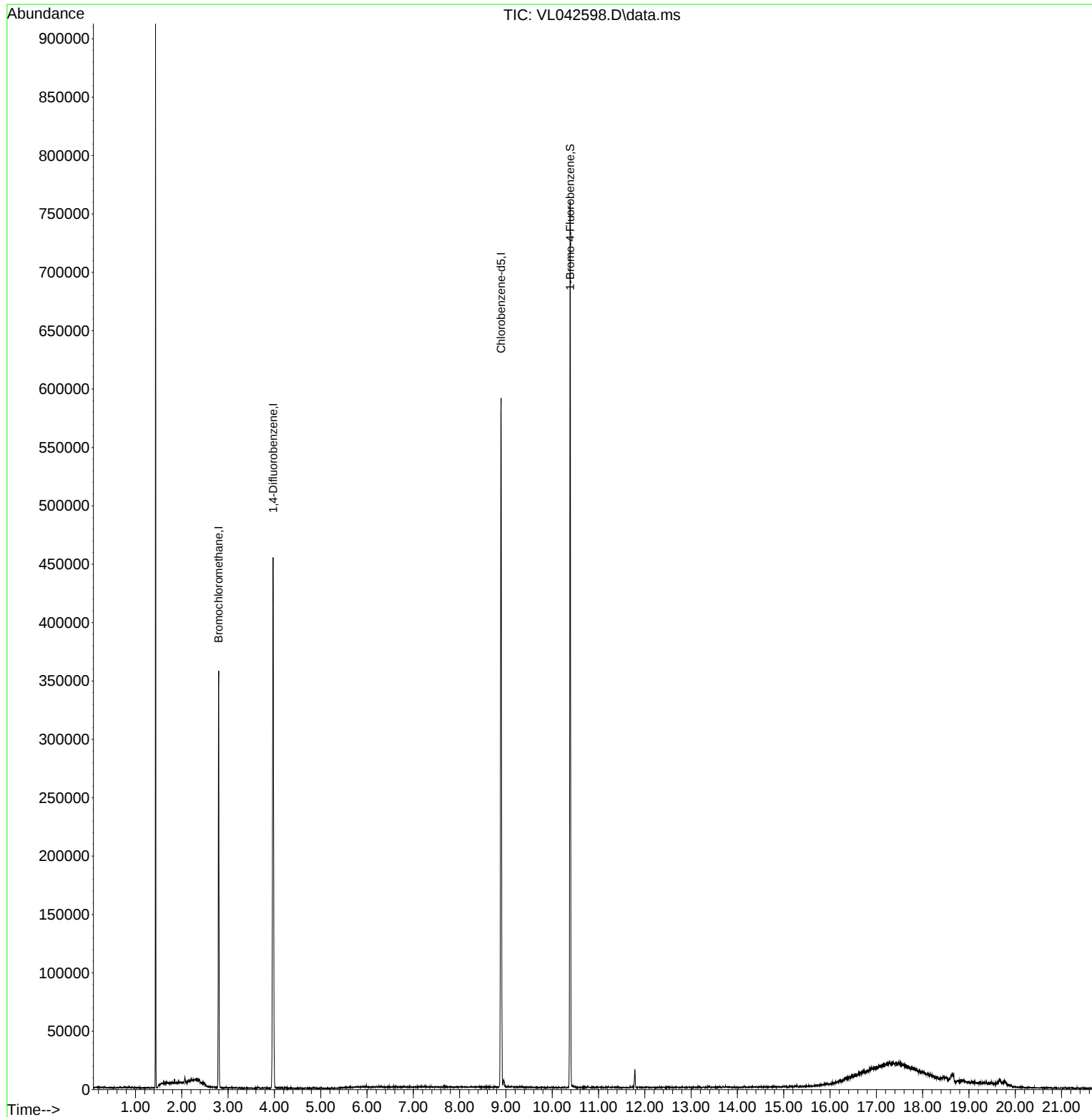
Target Compounds	Qvalue

(#) = 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

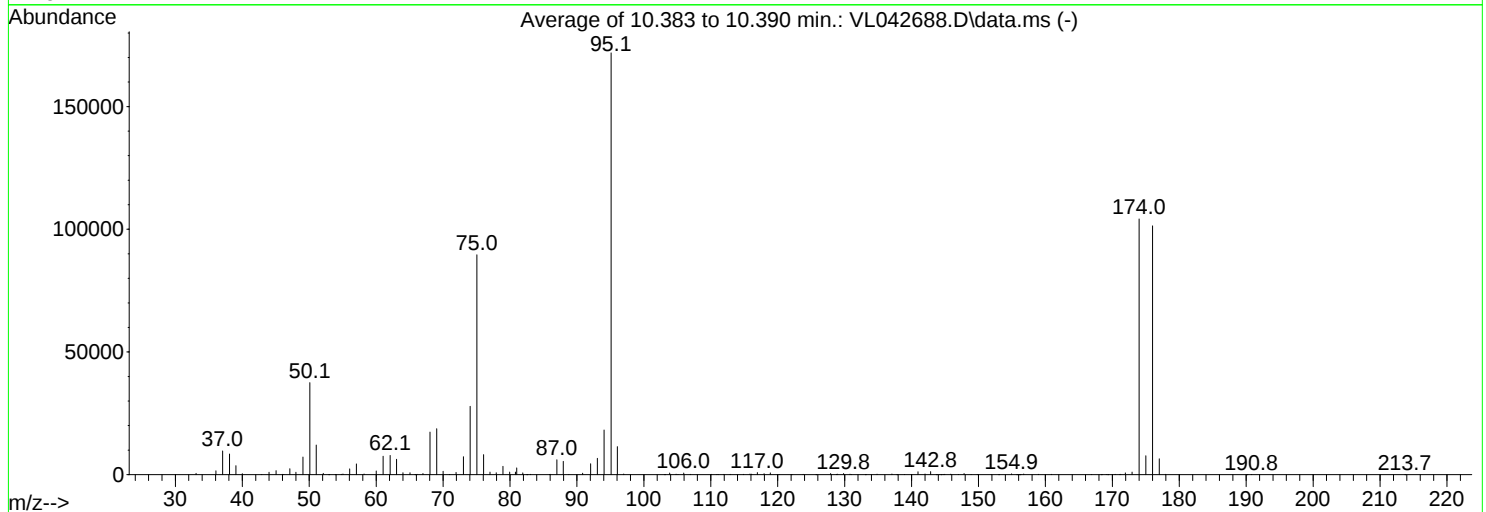
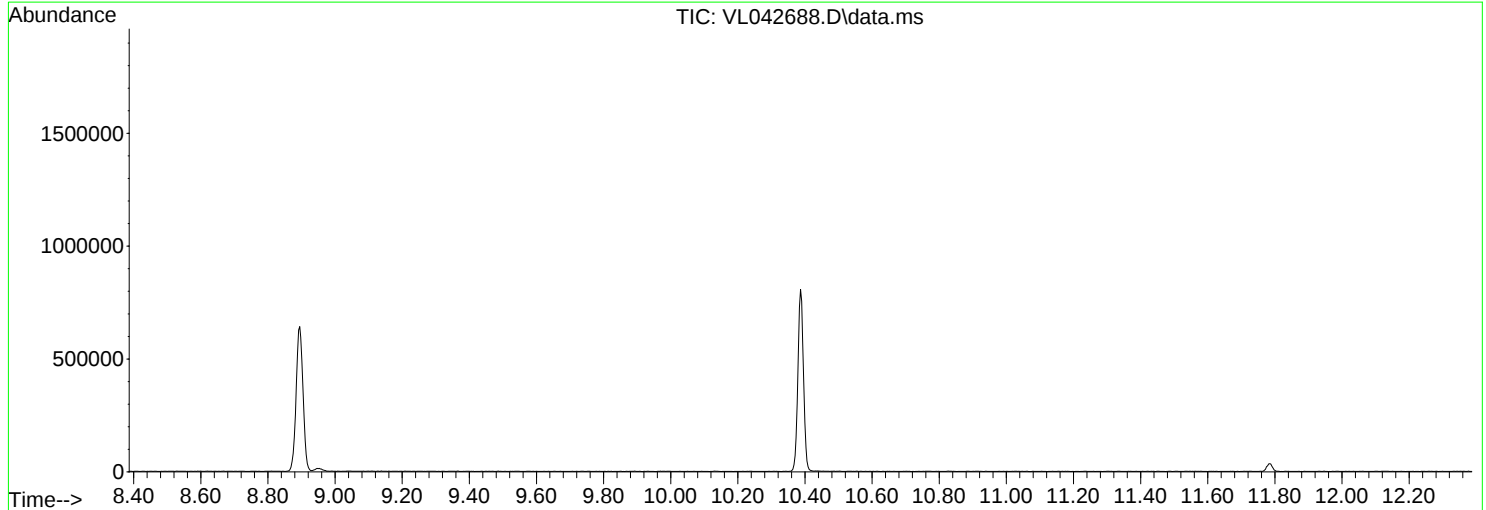


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042688.D
Acq On : 02 Jul 2025 07:41
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 03 01:50:16 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	37520	PASS
75	95	30	66	52.1	89627	PASS
95	95	100	100	100.0	171904	PASS
96	95	5	9	6.6	11430	PASS
173	174	0.00	2	1.0	1048	PASS
174	95	50	120	60.6	104181	PASS
175	174	4	9	7.4	7723	PASS
176	174	93	101	97.3	101413	PASS
177	176	5	9	6.4	6441	PASS

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

Method File : VL070225AIR.M

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

Last Update : Thu Jul 03 01:50:16 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042694.D 0.1 =VL042696.D 0.5 =VL042692.D 1 =VL042691.D 2 =VL042690.D 10 =VL042689.D 15 =VL042695.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.126	1.083	1.116	0.930	0.980	1.047	8.33
3) Chlorodifluoro...			1.661	1.695	1.619	1.394	1.457	1.565	8.44
4) Chloromethane			0.414	0.446	0.440	0.370	0.382	0.411	8.23
5) T Vinyl Chloride	0.570	0.491	0.394	0.353	0.405	0.327	0.348	0.413	21.26
6) T Bromomethane			0.229	0.196	0.178	0.152	0.167	0.184	16.03
7) Chloroethane			0.177	0.169	0.167	0.134	0.144	0.158	11.55
8) T Dichlorotetra...			1.004	0.881	0.910	0.743	0.799	0.867	11.63
9) T Propene			0.608	0.596	0.641	0.528	0.557	0.586	7.56
10) T Heptane			1.323	1.521	1.691	1.663	1.756	1.591	10.85
11) T Trichlorofluor...			1.156	1.161	1.188	0.986	1.028	1.104	8.19
12) T 1,1,2-Trichlor...			0.949	0.927	0.894	0.778	0.821	0.874	8.26
13) Ethanol			0.069	0.065	0.073	0.038	0.037	0.057	30.76
14) T Bromoethene			0.331	0.311	0.323	0.269	0.289	0.305	8.23
15) T Acetone			1.231	1.081	1.051	0.766	0.830	0.992	19.25
16) T 1,3-Butadiene			0.538	0.486	0.463	0.387	0.411	0.457	13.12
17) tert-Butyl alc...			1.055	0.992	1.000	0.891	0.900	0.968	7.25
18) T 1,1-Dichloroet...			0.440	0.392	0.418	0.335	0.356	0.388	11.10
19) T Isopropyl Alcohol			0.653	0.562	0.612	0.498	0.525	0.570	11.10
20) T Methylene Chlo...			0.505	0.403	0.389	0.285	0.314	0.379	22.75
21) T Allyl Chloride			0.735	0.692	0.720	0.634	0.678	0.692	5.64
22) T trans-1,2-Dich...			0.462	0.416	0.462	0.371	0.403	0.423	9.28
23) T Vinyl Acetate			1.439	1.500	1.640	1.779	1.667	1.605	8.48
24) T 1,1-Dichloroet...			0.944	0.927	0.913	0.770	0.817	0.874	8.75
25) T Ethyl Acetate			2.898	2.929	3.239	2.906	3.029	3.000	4.79
26) T Hexane			1.143	1.240	1.345	1.222	1.309	1.252	6.29
27) T Carbon Disulfide			1.060	1.048	1.064	0.940	0.992	1.021	5.25
28) T Methyl tert-Bu...			0.493	0.509	0.595	0.514	0.450	0.512	10.32
29) T Chloroform			1.984	1.990	2.031	1.674	1.774	1.891	8.30
30) T Cyclohexane			0.806	0.904	1.016	0.955	1.037	0.944	9.87
31) T cis-1,2-Dichlo...			1.127	1.234	1.234	1.140	1.222	1.191	4.46
32) T 1,1,1-Trichlor...	2.344	1.943	1.787	1.713	1.720	1.548	1.642	1.814	14.56

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.778	0.821	0.829	0.745	0.785	0.791	4.33
35) T Carbon Tetrach...	0.802	0.742	0.673	0.688	0.667	0.620	0.652	0.692	8.83
36) T Benzene			0.986	1.050	1.034	0.965	1.004	1.008	3.45
37) T 1,2-Dichloroet...			0.568	0.562	0.543	0.493	0.511	0.535	6.08
38) T Trichloroethene	0.431	0.554	0.403	0.438	0.435	0.379	0.407	0.435	12.98
39) T 1,2-Dichloropr...			0.423	0.399	0.405	0.359	0.379	0.393	6.23

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL070225AIR.M										
40)	T	1,4-Dioxane		0.150	0.153	0.149	0.155	0.156	0.152	1.89
41)	T	Tetrahydrofuran		0.361	0.383	0.410	0.416	0.445	0.403	7.97
42)	T	Bromodichlorom...		0.781	0.768	0.774	0.719	0.749	0.758	3.26
43)		Methyl Methacr...		0.235	0.324	0.325	0.354	0.383	0.324	17.15
44)	T	2,2,4-Trimethy...		1.510	1.690	1.791	1.703	1.772	1.693	6.55
45)	T	t-1,3-Dichloro...		0.276	0.314	0.335	0.371	0.404	0.340	14.55
46)	T	cis-1,3-Dichlo...		0.419	0.438	0.464	0.494	0.532	0.469	9.54
47)	T	1,1,2-Trichlor...		0.376	0.403	0.398	0.368	0.392	0.387	3.85
48)	T	Dibromochlorom...		0.569	0.604	0.621	0.575	0.595	0.593	3.56
49)	T	Bromoform		0.484	0.524	0.521	0.506	0.525	0.512	3.36
50)	T	4-Methyl-2-Pen...		0.818	0.849	0.929	0.997	1.041	0.927	10.20
51)	T	2-Hexanone		0.492	0.564	0.684	0.792	0.839	0.674	21.82
52)	T	Tetrachloroethene	0.317 0.401	0.324	0.337	0.338	0.314	0.327	0.337	8.85
53)	T	Toluene		0.751	0.861	0.951	1.035	1.107	0.941	14.91
54)	T	1,2-Dibromoethane	0.557	0.531	0.523	0.550	0.525	0.553	0.540	2.77
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.580	0.588	0.552	0.479	0.504	0.541	8.82
57)	T	Chlorobenzene		1.058	1.069	1.060	0.897	0.932	1.003	8.17
58)	T	Ethyl Benzene		1.153	1.297	1.513	1.590	1.678	1.446	14.96
59)	T	m/p-Xylene		0.938	1.152	1.309	1.301	1.357	1.211	14.14
60)	T	o-Xylene		0.889	1.154	1.317	1.268	1.329	1.192	15.32
61)	T	Styrene		0.341	0.392	0.464	0.548	0.596	0.468	22.61
62)		Isopropylbenzene		1.528	1.732	1.954	1.846	1.934	1.799	9.72
63)	T	1,1,2,2-Tetrac...	0.944 1.004	0.925	0.951	0.947	0.818	0.834	0.918	7.31
64)		n-propylbenzene		0.329	0.460	0.507	0.487	0.519	0.460	16.66
65)		tert-Butylbenzene		1.177	1.508	1.784	1.591	1.637	1.539	14.69
66)	T	Benzyl Chloride		0.117	0.136	0.151	0.160	0.182	0.149	16.53
67)		sec-Butylbenzene		1.996	2.437	2.659	2.316	2.384	2.358	10.17
68)	S	1-Bromo-4-Fluo...	0.736 0.746	0.772	0.772	0.780	0.788	0.789	0.769	2.66
69)		p-Isopropyltol...		1.494	1.850	2.142	1.916	1.982	1.877	12.79
70)		n-Butylbenzene		1.384	1.816	2.204	1.980	2.070	1.891	16.74
71)		2-Chlorotoluene		1.076	1.278	1.410	1.404	1.484	1.331	12.06
72)	T	4-Ethyltoluene		1.100	1.342	1.607	1.570	1.650	1.454	15.90
73)	T	1,3,5-Trimethy...		0.935	1.194	1.348	1.302	1.349	1.226	14.20
74)	T	1,2,4-Trimethy...		1.066	1.443	1.617	1.427	1.439	1.398	14.43
75)	T	1,3-Dichlorobe...		0.949	1.062	1.048	0.908	0.939	0.981	7.06
76)	T	1,4-Dichlorobe...		0.846	0.980	1.002	0.893	0.934	0.931	6.81
77)	T	1,2-Dichlorobe...		1.022	1.065	1.104	0.868	0.897	0.991	10.52
78)	T	Hexachloro-1,3...		0.834	0.886	0.904	0.609	0.627	0.772	18.56
79)	T	Naphthalene	0.714	0.655	1.126	1.653	1.387	1.467	1.167	35.19
80)	T	Naphthalene,2-...		0.192	0.303	0.580	0.621	0.728	0.485	46.79
81)	T	1,2,4-Trichlor...		0.440	0.679	0.848	0.696	0.738	0.680	21.98

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042689.D
 Acq On : 02 Jul 2025 08:23
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:24:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	121549	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	305681	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	274998	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 216760 10.248 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	113054	8.884	ppbv	100
3) Chlorodifluoromethane	1.479	51	169455	8.906	ppbv	100
4) Chloromethane	1.538	50	45033	9.023	ppbv	100
5) Vinyl Chloride	1.586	62	39799	7.934	ppbv	100
6) Bromomethane	1.674	94	18514	8.261	ppbv	100
7) Chloroethane	1.709	64	16324	8.475	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	90329	8.568	ppbv	100
9) Propene	1.489	41	64135	9.008	ppbv	100
10) Heptane	5.001	43	202087	10.459	ppbv	100
11) Trichlorofluoromethane	1.884	101	119888	8.936	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	94571	8.905	ppbv	100
13) Ethanol	1.725	45	4676	6.914	ppbv	100
14) Bromoethene	1.787	108	32746	8.847	ppbv	100
15) Acetone	1.842	43	93100	7.723	ppbv	100
16) 1,3-Butadiene	1.615	39	47034	8.467	ppbv	100
17) tert-Butyl alcohol	2.046	59	108342	9.213	ppbv	100
18) 1,1-Dichloroethene	2.043	96	40741	8.635	ppbv	100
19) Isopropyl Alcohol	1.894	45	60503	8.732	ppbv	100
20) Methylene Chloride	2.068	84	34637	7.514	ppbv	100
21) Allyl Chloride	2.104	41	77114	9.171	ppbv	100
22) trans-1,2-Dichloroethene	2.350	96	45122	8.780	ppbv	100
23) Vinyl Acetate	2.470	43	216251	11.085	ppbv	100
24) 1,1-Dichloroethane	2.418	63	93547	8.806	ppbv	100
25) Ethyl Acetate	2.845	43	353206	9.686	ppbv	100
26) Hexane	2.836	57	148490	9.760	ppbv	100
27) Carbon Disulfide	2.159	76	114223	9.206	ppbv	100
28) Methyl tert-Butyl Ether	2.450	73	62430	10.029	ppbv	100
29) Chloroform	2.858	83	203528	8.856	ppbv	100
30) Cyclohexane	3.871	84	116132	10.102	ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	138516	9.566	ppbv	100
32) 1,1,1-Trichloroethane	3.383	97	188105	8.565	ppbv	100
34) 2-Butanone	2.567	43	227587	9.407	ppbv	100
35) Carbon Tetrachloride	3.777	117	189434	8.935	ppbv	100
36) Benzene	3.671	78	294950	9.573	ppbv	100
37) 1,2-Dichloroethane	3.230	62	150635	9.206	ppbv	100
38) Trichloroethene	4.567	130	115839	8.702	ppbv	100
39) 1,2-Dichloropropane	4.331	63	109807	9.134	ppbv	100
40) 1,4-Dioxane	4.603	88	47243m	10.227	ppbv	
41) Tetrahydrofuran	3.065	42	127174	10.315	ppbv	100
42) Bromodichloromethane	4.509	83	219936	9.490	ppbv	100
43) Methyl Methacrylate	4.901	69	108301	10.946	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	520537	10.125	ppbv	100
45) t-1,3-Dichloropropene	6.441	75	113519	10.918	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042689.D
 Acq On : 02 Jul 2025 08:23
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:24:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	151004	10.525	ppbv	100
47) 1,1,2-Trichloroethane	6.606	97	112381	9.497	ppbv	100
48) Dibromochloromethane	7.406	129	175681	9.695	ppbv	100
49) Bromoform	9.500	173	154598	9.878	ppbv	100
50) 4-Methyl-2-Pentanone	5.774	43	304838	10.779	ppbv	100
51) 2-Hexanone	7.454	43	242187	11.723	ppbv	100
52) Tetrachloroethene	8.244	164	95960	9.286	ppbv	100
53) Toluene	6.956	91	316330	10.996	ppbv	100
54) 1,2-Dibromoethane	7.671	107	160587	9.724	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.943	131	131624	8.852	ppbv	100
57) Chlorobenzene	8.937	112	246807	8.946	ppbv	100
58) Ethyl Benzene	9.370	91	437123	10.992	ppbv	100
59) m/p-Xylene	9.548	91	715399m	21.466	ppbv	
60) o-Xylene	9.979	91	348790	10.644	ppbv	100
61) Styrene	9.885	104	150633	11.702	ppbv	100
62) Isopropylbenzene	10.552	105	507546	10.262	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	225039	8.918	ppbv	100
64) n-propylbenzene	11.002	120	133873	10.572	ppbv	100
65) tert-Butylbenzene	11.542	119	437623	10.337	ppbv	100
66) Benzyl Chloride	11.626	91	44118	10.756	ppbv	100
67) sec-Butylbenzene	11.778	105	636845	9.820	ppbv	100
69) p-Isopropyltoluene	11.937	119	526956	10.209	ppbv	100
70) n-Butylbenzene	12.293	91	544456	10.470	ppbv	100
71) 2-Chlorotoluene	10.914	91	386204	10.555	ppbv	100
72) 4-Ethyltoluene	11.138	105	431817	10.800	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	358173	10.625	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	392374	10.203	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	249683	9.254	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	245671	9.594	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	238600	8.754	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	167444	7.888	ppbv	100
79) Naphthalene	13.523	128	381414	11.964	ppbv	100
80) Naphthalene,2-methyl-	14.468	142	170730	12.807	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	191399	10.233	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042690.D
 Acq On : 02 Jul 2025 08:56
 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 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:25:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	312860	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	271598	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 211854 10.141 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	26783	2.131	ppbv	97
3) Chlorodifluoromethane	1.480	51	38872	2.069	ppbv	100
4) Chloromethane	1.535	50	10573	2.145	ppbv	89
5) Vinyl Chloride	1.583	62	9733	1.965	ppbv	99
6) Bromomethane	1.671	94	4273	1.931	ppbv	97
7) Chloroethane	1.706	64	4013	2.110	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	21841	2.098	ppbv	100
9) Propene	1.486	41	15391	2.189	ppbv	95
10) Heptane	4.995	43	40605m	2.128	ppbv	
11) Trichlorofluoromethane	1.881	101	28523	2.153	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	21456	2.046	ppbv	95
13) Ethanol	1.726	45	1757	2.630	ppbv	95
14) Bromoethene	1.784	108	7746	2.119	ppbv #	96
15) Acetone	1.839	43	25238	2.120	ppbv	97
16) 1,3-Butadiene	1.612	39	11117	2.026	ppbv	99
17) tert-Butyl alcohol	2.046	59	23997	2.066	ppbv	97
18) 1,1-Dichloroethene	2.040	96	10032	2.153	ppbv	94
19) Isopropyl Alcohol	1.891	45	14705	2.149	ppbv #	1
20) Methylene Chloride	2.066	84	9338	2.051	ppbv	97
21) Allyl Chloride	2.101	41	17280	2.081	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	11093	2.186	ppbv	94
23) Vinyl Acetate	2.467	43	39372	2.044	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	21916	2.089	ppbv	99
25) Ethyl Acetate	2.842	43	77767	2.159	ppbv	100
26) Hexane	2.833	57	32281	2.148	ppbv	98
27) Carbon Disulfide	2.156	76	25545	2.085	ppbv #	85
28) Methyl tert-Butyl Ether	2.451	73	14297	2.326	ppbv	100
29) Chloroform	2.855	83	48759	2.148	ppbv	92
30) Cyclohexane	3.872	84	24389	2.148	ppbv	95
31) cis-1,2-Dichloroethene	2.729	61	29632	2.072	ppbv	100
32) 1,1,1-Trichloroethane	3.376	97	41283	1.903	ppbv	98
34) 2-Butanone	2.564	43	51845	2.094	ppbv	97
35) Carbon Tetrachloride	3.771	117	41742	1.924	ppbv	94
36) Benzene	3.664	78	64694	2.052	ppbv	98
37) 1,2-Dichloroethane	3.224	62	33990	2.030	ppbv	97
38) Trichloroethene	4.561	130	27249	2.000	ppbv	89
39) 1,2-Dichloropropane	4.321	63	25320	2.058	ppbv #	84
40) 1,4-Dioxane	4.600	88	9321m	1.972	ppbv	
41) Tetrahydrofuran	3.066	42	25677	2.035	ppbv	97
42) Bromodichloromethane	4.499	83	48408	2.041	ppbv	96
43) Methyl Methacrylate	4.898	69	20355	2.010	ppbv	97
44) 2,2,4-Trimethylpentane	4.652	57	112040	2.129	ppbv	98
45) t-1,3-Dichloropropene	6.432	75	20979m	1.971	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042690.D
 Acq On : 02 Jul 2025 08:56
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:25:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	29059m	1.979	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	24877m	2.054	ppbv	
48) Dibromochloromethane	7.396	129	38842	2.094	ppbv	99
49) Bromoform	9.494	173	32624	2.037	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	58107	2.008	ppbv	99
51) 2-Hexanone	7.451	43	42828	2.026	ppbv #	99
52) Tetrachloroethene	8.238	164	21125	1.997	ppbv	92
53) Toluene	6.950	91	59500	2.021	ppbv	100
54) 1,2-Dibromoethane	7.668	107	34397	2.035	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.937	131	30008	2.043	ppbv	94
57) Chlorobenzene	8.930	112	57600	2.114	ppbv #	92
58) Ethyl Benzene	9.367	91	82202	2.093	ppbv	98
59) m/p-Xylene	9.562	91	142254m	4.322	ppbv	
60) o-Xylene	9.973	91	71539	2.211	ppbv	95
61) Styrene	9.882	104	25203	1.982	ppbv	98
62) Isopropylbenzene	10.549	105	106122	2.172	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	51423	2.063	ppbv	99
64) n-propylbenzene	10.995	120	27567	2.204	ppbv	91
65) tert-Butylbenzene	11.539	119	96905	2.318	ppbv	98
66) Benzyl Chloride	11.623	91	8222	2.030	ppbv	99
67) sec-Butylbenzene	11.775	105	144413	2.255	ppbv	99
69) p-Isopropyltoluene	11.934	119	116378	2.283	ppbv	100
70) n-Butylbenzene	12.287	91	119746	2.332	ppbv	98
71) 2-Chlorotoluene	10.911	91	76582	2.119	ppbv	99
72) 4-Ethyltoluene	11.135	105	87315	2.211	ppbv	98
73) 1,3,5-Trimethylbenzene	11.212	105	73219	2.199	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	87853	2.313	ppbv	97
75) 1,3-Dichlorobenzene	11.614	146	56931	2.136	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	54426	2.152	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	59993	2.229	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	49131	2.343	ppbv	100
79) Naphthalene	13.520	128	89795	2.852	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	31532	2.395	ppbv	98
81) 1,2,4-Trichlorobenzene	13.446	180	46047	2.493	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042691.D
 Acq On : 02 Jul 2025 09:28
 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 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:26:40 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	305483	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	263429	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 203435 10.040 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	13214	1.034	ppbv	100
3) Chlorodifluoromethane	1.480	51	20689	1.083	ppbv	97
4) Chloromethane	1.535	50	5440	1.086	ppbv	92
5) Vinyl Chloride	1.583	62	4311	0.856	ppbv	99
6) Bromomethane	1.670	94	2395	1.064	ppbv #	76
7) Chloroethane	1.709	64	2066	1.068	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	10757	1.016	ppbv	98
9) Propene	1.486	41	7269	1.017	ppbv	97
10) Heptane	4.998	43	18560m	0.957	ppbv	
11) Trichlorofluoromethane	1.881	101	14164	1.051	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	11318	1.061	ppbv	95
13) Ethanol	1.725	45	795	1.171	ppbv	72
14) Bromoethene	1.787	108	3790	1.020	ppbv	95
15) Acetone	1.839	43	13196	1.090	ppbv	94
16) 1,3-Butadiene	1.612	39	5928	1.063	ppbv	93
17) tert-Butyl alcohol	2.046	59	12101	1.025	ppbv	99
18) 1,1-Dichloroethene	2.039	96	4779	1.009	ppbv	90
19) Isopropyl Alcohol	1.891	45	6861	0.986	ppbv #	1
20) Methylene Chloride	2.069	84	4922	1.063	ppbv	93
21) Allyl Chloride	2.101	41	8443	1.000	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	5076	0.984	ppbv	95
23) Vinyl Acetate	2.470	43	18307	0.935	ppbv	97
24) 1,1-Dichloroethane	2.415	63	11310	1.060	ppbv	96
25) Ethyl Acetate	2.845	43	35741	0.976	ppbv	96
26) Hexane	2.832	57	15131	0.991	ppbv	97
27) Carbon Disulfide	2.156	76	12785	1.026	ppbv #	78
28) Methyl tert-Butyl Ether	2.447	73	6208	0.993	ppbv	97
29) Chloroform	2.855	83	24283	1.052	ppbv	99
30) Cyclohexane	3.868	84	11035	0.956	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	15056	1.036	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	20910	0.948	ppbv	97
34) 2-Butanone	2.567	43	25091	1.038	ppbv	98
35) Carbon Tetrachloride	3.771	117	21021	0.992	ppbv	88
36) Benzene	3.667	78	32089	1.042	ppbv	93
37) 1,2-Dichloroethane	3.231	62	17166	1.050	ppbv	98
38) Trichloroethene	4.567	130	13382m	1.006	ppbv	
39) 1,2-Dichloropropane	4.324	63	12193	1.015	ppbv	95
40) 1,4-Dioxane	4.606	88	4659m	1.009	ppbv	
41) Tetrahydrofuran	3.069	42	11715	0.951	ppbv	99
42) Bromodichloromethane	4.503	83	23463	1.013	ppbv #	92
43) Methyl Methacrylate	4.891	69	9890m	1.000	ppbv	
44) 2,2,4-Trimethylpentane	4.651	57	51620m	1.005	ppbv	
45) t-1,3-Dichloropropene	6.438	75	9601m	0.924	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042691.D
 Acq On : 02 Jul 2025 09:28
 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 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:26:40 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	13366	0.932	ppbv	92
47) 1,1,2-Trichloroethane	6.597	97	12302m	1.040	ppbv	
48) Dibromochloromethane	7.399	129	18446	1.019	ppbv	95
49) Bromoform	9.497	173	16000	1.023	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	25940m	0.918	ppbv	
51) 2-Hexanone	7.454	43	17236	0.835	ppbv #	96
52) Tetrachloroethene	8.238	164	10305	0.998	ppbv	95
53) Toluene	6.949	91	26314	0.915	ppbv	99
54) 1,2-Dibromoethane	7.665	107	15978	0.968	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.940	131	15492	1.088	ppbv	97
57) Chlorobenzene	8.937	112	28166	1.066	ppbv #	93
58) Ethyl Benzene	9.367	91	34160	0.897	ppbv	100
59) m/p-Xylene	9.561	91	60678m	1.901	ppbv	
60) o-Xylene	9.976	91	30409	0.969	ppbv	99
61) Styrene	9.882	104	10327	0.837	ppbv	97
62) Isopropylbenzene	10.552	105	45619	0.963	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	25045	1.036	ppbv	99
64) n-propylbenzene	10.995	120	12111	0.998	ppbv	100
65) tert-Butylbenzene	11.539	119	39720	0.979	ppbv	98
66) Benzyl Chloride	11.626	91	3571	0.909	ppbv #	97
67) sec-Butylbenzene	11.775	105	64205	1.033	ppbv	97
69) p-Isopropyltoluene	11.934	119	48735	0.986	ppbv	98
70) n-Butylbenzene	12.290	91	47831	0.960	ppbv	96
71) 2-Chlorotoluene	10.911	91	33676	0.961	ppbv	100
72) 4-Ethyltoluene	11.134	105	35361	0.923	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.215	105	31466	0.974	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	38012	1.032	ppbv	88
75) 1,3-Dichlorobenzene	11.617	146	27976	1.082	ppbv	98
76) 1,4-Dichlorobenzene	11.681	146	25814	1.052	ppbv	97
77) 1,2-Dichlorobenzene	11.957	146	28060	1.075	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	23328	1.147	ppbv	96
79) Naphthalene	13.523	128	29658	0.971	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	7977	0.625	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	17882	0.998	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042692.D
 Acq On : 02 Jul 2025 10:01
 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 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:27:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	120056	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	305088	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	264493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 204100 10.032 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	6761	0.538	ppbv	93
3) Chlorodifluoromethane	1.479	51	9970	0.531	ppbv	100
4) Chloromethane	1.534	50	2488	0.505	ppbv	94
5) Vinyl Chloride	1.583	62	2367	0.478	ppbv	97
6) Bromomethane	1.670	94	1373	0.620	ppbv	87
7) Chloroethane	1.709	64	1065	0.560	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	6025	0.579	ppbv	94
9) Propene	1.486	41	3647	0.519	ppbv	100
10) Heptane	4.988	43	7941m	0.416	ppbv	
11) Trichlorofluoromethane	1.881	101	6942	0.524	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	5694	0.543	ppbv	98
13) Ethanol	1.725	45	413	0.618	ppbv #	37
14) Bromoethene	1.784	108	1985	0.543	ppbv #	89
15) Acetone	1.839	43	7388	0.620	ppbv	95
16) 1,3-Butadiene	1.609	39	3229	0.588	ppbv	93
17) tert-Butyl alcohol	2.046	59	6335	0.545	ppbv	94
18) 1,1-Dichloroethene	2.036	96	2642	0.567	ppbv #	91
19) Isopropyl Alcohol	1.890	45	3920	0.573	ppbv #	1
20) Methylene Chloride	2.065	84	3034	0.666	ppbv	95
21) Allyl Chloride	2.098	41	4410	0.531	ppbv	90
22) trans-1,2-Dichloroethene	2.344	96	2772m	0.546	ppbv	
23) Vinyl Acetate	2.463	43	8636	0.448	ppbv #	90
24) 1,1-Dichloroethane	2.415	63	5666	0.540	ppbv #	95
25) Ethyl Acetate	2.845	43	17395	0.483	ppbv	99
26) Hexane	2.832	57	6861	0.457	ppbv	90
27) Carbon Disulfide	2.153	76	6363	0.519	ppbv #	30
28) Methyl tert-Butyl Ether	2.444	73	2957	0.481	ppbv #	89
29) Chloroform	2.855	83	11910	0.525	ppbv	97
30) Cyclohexane	3.858	84	4837m	0.426	ppbv	
31) cis-1,2-Dichloroethene	2.725	61	6768	0.473	ppbv	89
32) 1,1,1-Trichloroethane	3.373	97	10729	0.495	ppbv	96
34) 2-Butanone	2.567	43	11862	0.491	ppbv	98
35) Carbon Tetrachloride	3.768	117	10262	0.485	ppbv #	86
36) Benzene	3.661	78	15039	0.489	ppbv	97
37) 1,2-Dichloroethane	3.224	62	8660	0.530	ppbv	99
38) Trichloroethene	4.561	130	6153	0.463	ppbv	94
39) 1,2-Dichloropropane	4.318	63	6453m	0.538	ppbv	
40) 1,4-Dioxane	4.609	88	2287m	0.496	ppbv	
41) Tetrahydrofuran	3.069	42	5513	0.448	ppbv	98
42) Bromodichloromethane	4.496	83	11914m	0.515	ppbv	
43) Methyl Methacrylate	4.891	69	3578m	0.362	ppbv	
44) 2,2,4-Trimethylpentane	4.654	57	23040m	0.449	ppbv	
45) t-1,3-Dichloropropene	6.438	75	4215m	0.406	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042692.D
 Acq On : 02 Jul 2025 10:01
 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 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:27:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	6399m	0.447	ppbv	
47) 1,1,2-Trichloroethane	6.600	97	5730m	0.485	ppbv	
48) Dibromochloromethane	7.393	129	8686	0.480	ppbv	93
49) Bromoform	9.490	173	7390	0.473	ppbv	97
50) 4-Methyl-2-Pentanone	5.778	43	12481m	0.442	ppbv	
51) 2-Hexanone	7.457	43	7501m	0.364	ppbv	
52) Tetrachloroethene	8.234	164	4943m	0.479	ppbv	
53) Toluene	6.940	91	11461	0.399	ppbv	100
54) 1,2-Dibromoethane	7.661	107	8096	0.491	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	7670	0.536	ppbv #	1
57) Chlorobenzene	8.927	112	13987	0.527	ppbv	90
58) Ethyl Benzene	9.364	91	15248	0.399	ppbv	97
59) m/p-Xylene	9.558	91	24797m	0.774	ppbv	
60) o-Xylene	9.969	91	11759	0.373	ppbv	100
61) Styrene	9.875	104	4504	0.364	ppbv	99
62) Isopropylbenzene	10.545	105	20205	0.425	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	12230	0.504	ppbv	97
64) n-propylbenzene	10.995	120	4354	0.358	ppbv	79
65) tert-Butylbenzene	11.536	119	15561	0.382	ppbv	98
66) Benzyl Chloride	11.617	91	1543	0.391	ppbv #	83
67) sec-Butylbenzene	11.778	105	26399	0.423	ppbv	98
69) p-Isopropyltoluene	11.930	119	19758	0.398	ppbv	98
70) n-Butylbenzene	12.287	91	18308	0.366	ppbv	93
71) 2-Chlorotoluene	10.908	91	14226	0.404	ppbv	99
72) 4-Ethyltoluene	11.131	105	14541	0.378	ppbv	98
73) 1,3,5-Trimethylbenzene	11.212	105	12371	0.382	ppbv	94
74) 1,2,4-Trimethylbenzene	11.545	105	14096	0.381	ppbv #	83
75) 1,3-Dichlorobenzene	11.613	146	12551	0.484	ppbv	96
76) 1,4-Dichlorobenzene	11.678	146	11188	0.454	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	13512	0.515	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	11034	0.540	ppbv	97
79) Naphthalene	13.520	128	8668	0.283	ppbv #	94
80) Naphthalene,2-methyl-	14.462	142	2536	0.198	ppbv	85
81) 1,2,4-Trichlorobenzene	13.445	180	5818	0.323	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042694.D
 Acq On : 02 Jul 2025 11:06
 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 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:29:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 03 01:24:10 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	116450	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	283981	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	249164	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	183435	9.571	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	199	0.041	ppbv #	70
32) 1,1,1-Trichloroethane	3.382	97	819m	0.039	ppbv	
35) Carbon Tetrachloride	3.777	117	683m	0.035	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	706m	0.031	ppbv	

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

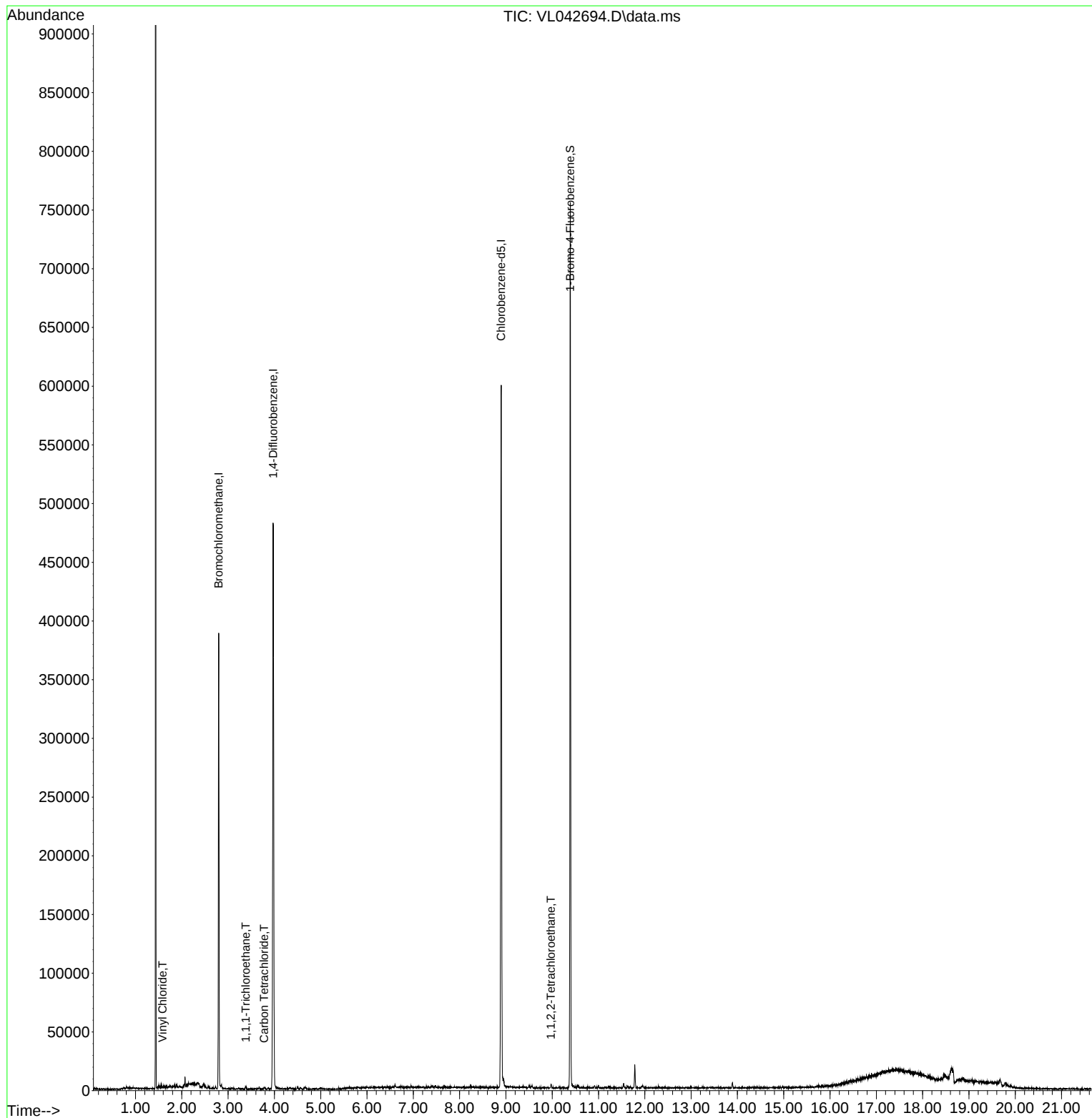
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042694.D
Acq On : 02 Jul 2025 11:06
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 03 01:29:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042695.D
 Acq On : 02 Jul 2025 11:39
 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 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:29:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	117105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	296435	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	265053	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.386 95 209248 10.264 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	172151	14.041	ppbv	98
3) Chlorodifluoromethane	1.476	51	256009	13.966	ppbv	100
4) Chloromethane	1.534	50	67083	13.951	ppbv	95
5) Vinyl Chloride	1.583	62	61102	12.642	ppbv	100
6) Bromomethane	1.670	94	29264	13.554	ppbv	98
7) Chloroethane	1.706	64	25330	13.649	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	140342	13.817	ppbv	100
9) Propene	1.486	41	97807	14.259	ppbv	100
10) Heptane	4.991	43	308403	16.567	ppbv	99
11) Trichlorofluoromethane	1.881	101	180499	13.964	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	144195	14.093	ppbv	99
13) Ethanol	1.725	45	6502	9.979	ppbv	96
14) Bromoethene	1.783	108	50816	14.250	ppbv	99
15) Acetone	1.838	43	145775	12.551	ppbv	98
16) 1,3-Butadiene	1.612	39	72281	13.505	ppbv	100
17) tert-Butyl alcohol	2.042	59	158067	13.951	ppbv	99
18) 1,1-Dichloroethene	2.036	96	62555	13.761	ppbv	90
19) Isopropyl Alcohol	1.887	45	92196	13.811	ppbv #	1
20) Methylene Chloride	2.065	84	55096	12.405	ppbv	99
21) Allyl Chloride	2.101	41	119161	14.709	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	70815	14.302	ppbv	93
23) Vinyl Acetate	2.466	43	292863	15.582	ppbv	99
24) 1,1-Dichloroethane	2.411	63	143437	14.015	ppbv	99
25) Ethyl Acetate	2.839	43	532134	15.146	ppbv	99
26) Hexane	2.832	57	230010	15.692	ppbv	97
27) Carbon Disulfide	2.152	76	174309	14.583	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	79095	13.188	ppbv	98
29) Chloroform	2.855	83	311665	14.076	ppbv	97
30) Cyclohexane	3.865	84	182243	16.454	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	214573	15.381	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	288461	13.633	ppbv	99
34) 2-Butanone	2.560	43	349225	14.884	ppbv	100
35) Carbon Tetrachloride	3.771	117	289865	14.098	ppbv	98
36) Benzene	3.664	78	446618	14.948	ppbv	99
37) 1,2-Dichloroethane	3.224	62	227106	14.313	ppbv	100
38) Trichloroethene	4.561	130	180970	14.018	ppbv	95
39) 1,2-Dichloropropane	4.321	63	168680	14.469	ppbv	95
40) 1,4-Dioxane	4.593	88	69208m	15.450	ppbv	
41) Tetrahydrofuran	3.059	42	198055	16.565	ppbv	98
42) Bromodichloromethane	4.499	83	332896	14.812	ppbv	98
43) Methyl Methacrylate	4.891	69	170155	17.734	ppbv	98
44) 2,2,4-Trimethylpentane	4.651	57	787806	15.802	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	179598	17.811	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042695.D
 Acq On : 02 Jul 2025 11:39
 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 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:29:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:24:10 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	236433	16.994	ppbv	98
47) 1,1,2-Trichloroethane	6.593	97	174366	15.194	ppbv	94
48) Dibromochloromethane	7.399	129	264716	15.064	ppbv	98
49) Bromoform	9.493	173	233294	15.371	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	462742	16.873	ppbv	99
51) 2-Hexanone	7.448	43	373010	18.619	ppbv #	100
52) Tetrachloroethene	8.234	164	145442	14.514	ppbv	93
53) Toluene	6.946	91	492164	17.643	ppbv	100
54) 1,2-Dibromoethane	7.664	107	245738	15.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	200564	13.994	ppbv	98
57) Chlorobenzene	8.933	112	370383	13.928	ppbv	97
58) Ethyl Benzene	9.364	91	667210	17.407	ppbv	100
59) m/p-Xylene	9.561	91	1079169m	33.596	ppbv	
60) o-Xylene	9.972	91	528391	16.730	ppbv	98
61) Styrene	9.878	104	237027	19.104	ppbv	100
62) Isopropylbenzene	10.548	105	768857	16.128	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	331699	13.638	ppbv	98
64) n-propylbenzene	10.998	120	206336	16.907	ppbv	96
65) tert-Butylbenzene	11.539	119	650964	15.954	ppbv	100
66) Benzyl Chloride	11.623	91	72252	18.276	ppbv	100
67) sec-Butylbenzene	11.775	105	947810	15.163	ppbv	99
69) p-Isopropyltoluene	11.934	119	788083	15.841	ppbv	100
70) n-Butylbenzene	12.286	91	823159	16.424	ppbv	100
71) 2-Chlorotoluene	10.908	91	590171	16.735	ppbv	99
72) 4-Ethyltoluene	11.134	105	656169	17.026	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	536306	16.506	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	572169	15.437	ppbv	95
75) 1,3-Dichlorobenzene	11.616	146	373171	14.350	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	371536	15.054	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	356431	13.568	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	249100	12.174	ppbv	99
79) Naphthalene	13.520	128	583427	18.988	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	289438	22.526	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	293572	16.284	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042696.D
 Acq On : 02 Jul 2025 12:12
 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 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:30:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 03 01:24:10 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	118499	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	296801	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	254532	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	189972	9.703	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%
Target Compounds						
5) Vinyl Chloride	1.583	62	582	0.119	ppbv #	84
32) 1,1,1-Trichloroethane	3.379	97	2303m	0.108	ppbv	
35) Carbon Tetrachloride	3.774	117	2203m	0.107	ppbv	
38) Trichloroethene	4.567	130	1645m	0.127	ppbv	
52) Tetrachloroethene	8.241	164	1191	0.119	ppbv #	61
54) 1,2-Dibromoethane	7.665	107	1652	0.103	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	2556m	0.109	ppbv	
79) Naphthalene	13.520	128	1818m	0.062	ppbv	

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

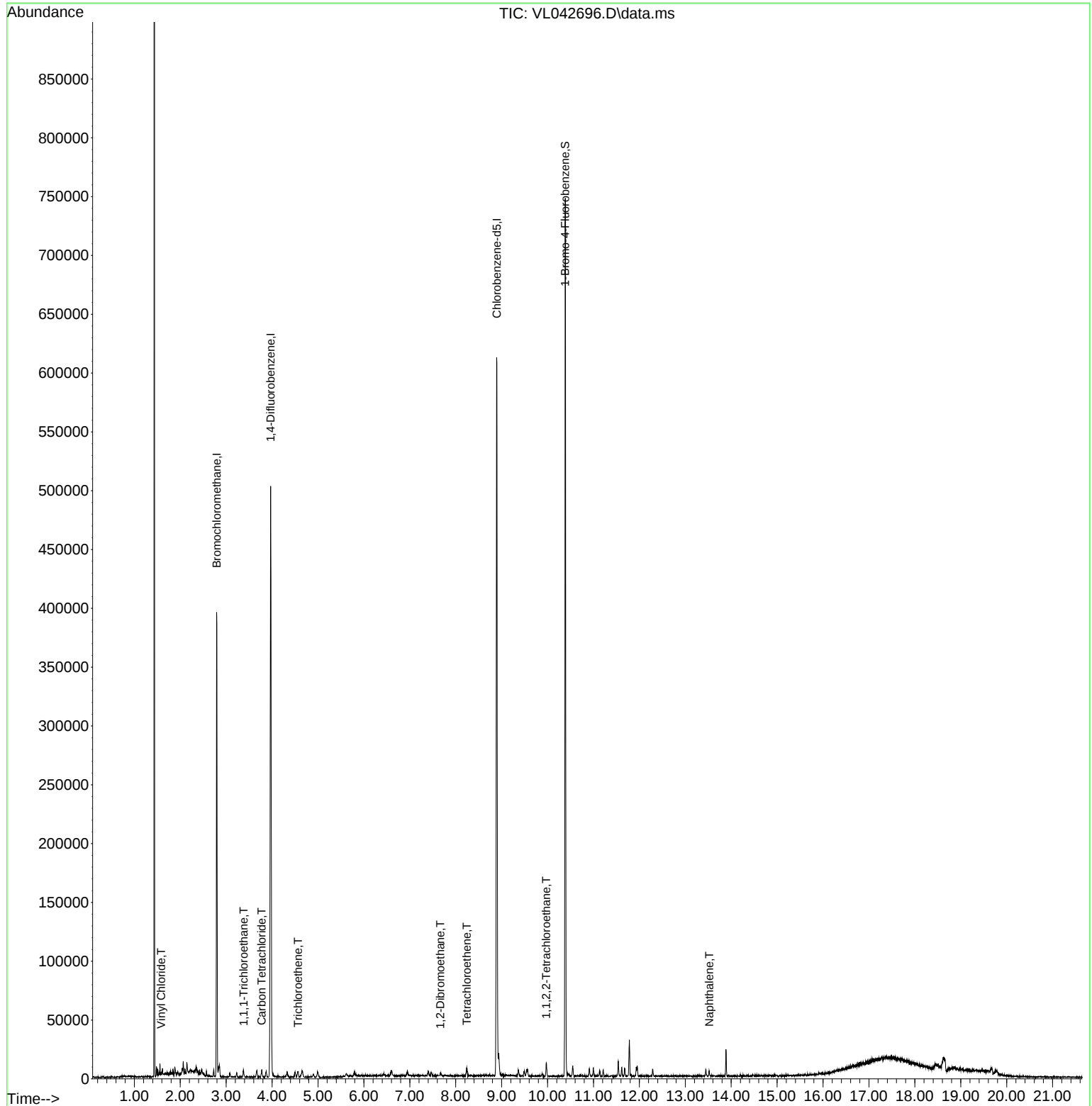
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
Data File : VL042696.D
Acq On : 02 Jul 2025 12:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:30:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 03 01:24:10 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042697.D
 Acq On : 02 Jul 2025 13:08
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:52:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:48:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	123303	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	310329	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	276453	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 216163 10.166 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	116554	9.029	ppbv	99
3) Chlorodifluoromethane	1.479	51	174306	9.031	ppbv	100
4) Chloromethane	1.538	50	43699	8.631	ppbv	100
5) Vinyl Chloride	1.586	62	40398	7.938	ppbv	99
6) Bromomethane	1.674	94	19910	8.758	ppbv	97
7) Chloroethane	1.709	64	15991	8.184	ppbv	91
8) Dichlorotetrafluoroethane	1.560	85	93055	8.701	ppbv	99
9) Propene	1.486	41	65538	9.074	ppbv	100
10) Heptane	4.998	43	205783	10.492	ppbv	99
11) Trichlorofluoromethane	1.884	101	123146	9.048	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	96871	8.992	ppbv	99
13) Ethanol	1.725	45	5367	7.701	ppbv	97
14) Bromoethene	1.787	108	33744	8.987	ppbv	99
15) Acetone	1.842	43	96454	7.887	ppbv	99
16) 1,3-Butadiene	1.612	39	48098	8.535	ppbv	100
17) tert-Butyl alcohol	2.046	59	111736	9.366	ppbv	100
18) 1,1-Dichloroethene	2.039	96	41593	8.690	ppbv	89
19) Isopropyl Alcohol	1.891	45	62969	8.958	ppbv #	1
20) Methylene Chloride	2.069	84	36270	7.756	ppbv	94
21) Allyl Chloride	2.101	41	80005	9.379	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	47456	9.102	ppbv	91
23) Vinyl Acetate	2.470	43	223198	11.278	ppbv	98
24) 1,1-Dichloroethane	2.415	63	93881	8.712	ppbv	99
25) Ethyl Acetate	2.842	43	357668	9.669	ppbv	100
26) Hexane	2.836	57	153642	9.955	ppbv	98
27) Carbon Disulfide	2.156	76	112533	8.941	ppbv	100
28) Methyl tert-Butyl Ether	2.450	73	63610	10.073	ppbv	97
29) Chloroform	2.858	83	209878	9.003	ppbv	100
30) Cyclohexane	3.871	84	119433	10.263	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	140575	9.570	ppbv	92
32) 1,1,1-Trichloroethane	3.383	97	194566	8.699	ppbv	99
34) 2-Butanone	2.564	43	231069	9.408	ppbv	99
35) Carbon Tetrachloride	3.774	117	190226	8.859	ppbv	100
36) Benzene	3.671	78	297230	9.503	ppbv	97
37) 1,2-Dichloroethane	3.231	62	149307	8.988	ppbv	100
38) Trichloroethene	4.564	130	117341	8.684	ppbv	92
39) 1,2-Dichloropropane	4.328	63	111969	9.179	ppbv	96
40) 1,4-Dioxane	4.600	88	49078	10.383	ppbv #	98
41) Tetrahydrofuran	3.062	42	128395	10.258	ppbv	98
42) Bromodichloromethane	4.503	83	219302	9.321	ppbv	92
43) Methyl Methacrylate	4.901	69	108319	10.769	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	531839	10.122	ppbv	100
45) t-1,3-Dichloropropene	6.438	75	109312	10.353	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042697.D
 Acq On : 02 Jul 2025 13:08
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 01:52:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:48:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	146557	10.060	ppbv	99
47) 1,1,2-Trichloroethane	6.600	97	115019	9.574	ppbv	96
48) Dibromochloromethane	7.406	129	171297	9.311	ppbv	98
49) Bromoform	9.500	173	149108	9.384	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	300056	10.433	ppbv	99
51) 2-Hexanone	7.451	43	236851	11.319	ppbv	98
52) Tetrachloroethene	8.241	164	96485	9.229	ppbv	98
53) Toluene	6.953	91	319495	10.940	ppbv	99
54) 1,2-Dibromoethane	7.671	107	159700	9.536	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.937	131	132435	8.859	ppbv	98
57) Chlorobenzene	8.937	112	247805	8.935	ppbv	98
58) Ethyl Benzene	9.370	91	433115	10.833	ppbv	97
59) m/p-Xylene	9.565	91	711646m	21.251	ppbv	
60) o-Xylene	9.979	91	349746	10.617	ppbv	98
61) Styrene	9.885	104	145395	11.235	ppbv	99
62) Isopropylbenzene	10.552	105	507890	10.215	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	230175	9.073	ppbv	98
64) n-propylbenzene	10.998	120	134923	10.599	ppbv	99
65) tert-Butylbenzene	11.542	119	438705	10.308	ppbv	100
66) Benzyl Chloride	11.626	91	42290	10.256	ppbv	99
67) sec-Butylbenzene	11.778	105	643534	9.871	ppbv	100
69) p-Isopropyltoluene	11.937	119	525986	10.137	ppbv	100
70) n-Butylbenzene	12.290	91	546708	10.458	ppbv	100
71) 2-Chlorotoluene	10.914	91	385485	10.480	ppbv	99
72) 4-Ethyltoluene	11.134	105	432340	10.756	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	360290	10.631	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	389736	10.081	ppbv	95
75) 1,3-Dichlorobenzene	11.620	146	249086	9.183	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	243912	9.475	ppbv	100
77) 1,2-Dichlorobenzene	11.956	146	238854	8.718	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	164880	7.726	ppbv	100
79) Naphthalene	13.523	128	362200	11.225	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	141019	10.522	ppbv	99
81) 1,2,4-Trichlorobenzene	13.449	180	184782	9.827	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042697.D
 Acq On : 02 Jul 2025 13:08
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070225

Quant Time: Jul 03 01:52:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:48:28 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	101	0.00
2 T	Dichlorodifluoromethane	1.047	0.945	9.7	103	0.00
3	Chlorodifluoromethane	1.565	1.414	9.6	103	0.00
4	Chloromethane	0.411	0.354	13.9	97	0.00
5 T	Vinyl Chloride	0.413	0.328	20.6	102	0.00
6 T	Bromomethane	0.184	0.161	12.5	108	0.00
7	Chloroethane	0.158	0.130	17.7	98	0.00
8 T	Dichlorotetrafluoroethane	0.867	0.755	12.9	103	0.00
9 T	Propene	0.586	0.532	9.2	102	0.00
10 T	Heptane	1.591	1.669	-4.9	102	0.00
11 T	Trichlorofluoromethane	1.104	0.999	9.5	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.874	0.786	10.1	102	0.00
13	Ethanol	0.057	0.044#	22.8	115	0.00
14 T	Bromoethene	0.305	0.274	10.2	103	0.00
15 T	Acetone	0.992	0.782	21.2	104	0.00
16 T	1,3-Butadiene	0.457	0.390	14.7	102	0.00
17	tert-Butyl alcohol	0.968	0.906	6.4	103	0.00
18 T	1,1-Dichloroethene	0.388	0.337	13.1	102	0.00
19 T	Isopropyl Alcohol	0.570	0.511	10.4	104	0.00
20 T	Methylene Chloride	0.379	0.294	22.4	105	0.00
21 T	Allyl Chloride	0.692	0.649	6.2	104	0.00
22 T	trans-1,2-Dichloroethene	0.423	0.385	9.0	105	0.00
23 T	Vinyl Acetate	1.605	1.810	-12.8	103	0.00
24 T	1,1-Dichloroethane	0.874	0.761	12.9	100	0.00
25 T	Ethyl Acetate	3.000	2.901	3.3	101	0.00
26 T	Hexane	1.252	1.246	0.5	103	0.00
27 T	Carbon Disulfide	1.021	0.913	10.6	99	0.00
28 T	Methyl tert-Butyl Ether	0.512	0.516	-0.8	102	0.00
29 T	Chloroform	1.891	1.702	10.0	103	0.00
30 T	Cyclohexane	0.944	0.969	-2.6	103	0.00
31 T	cis-1,2-Dichloroethene	1.191	1.140	4.3	101	0.00
32 T	1,1,1-Trichloroethane	1.814	1.578	13.0	103	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
34 T	2-Butanone	0.791	0.745	5.8	102	0.00
35 T	Carbon Tetrachloride	0.692	0.613	11.4	100	0.00
36 T	Benzene	1.008	0.958	5.0	101	0.00
37 T	1,2-Dichloroethane	0.535	0.481	10.1	99	0.00
38 T	Trichloroethene	0.435	0.378	13.1	101	0.00
39 T	1,2-Dichloropropane	0.393	0.361	8.1	102	0.00
40 T	1,4-Dioxane	0.152	0.158	-3.9	104	0.00
41 T	Tetrahydrofuran	0.403	0.414	-2.7	101	0.00
42 T	Bromodichloromethane	0.758	0.707	6.7	100	0.00
43	Methyl Methacrylate	0.324	0.349	-7.7	100	0.00
44 T	2,2,4-Trimethylpentane	1.693	1.714	-1.2	102	0.00
45 T	t-1,3-Dichloropropene	0.340	0.352	-3.5	96	0.00
46 T	cis-1,3-Dichloropropene	0.469	0.472	-0.6	97	0.00
47 T	1,1,2-Trichloroethane	0.387	0.371	4.1	102	0.00
48 T	Dibromochloromethane	0.593	0.552	6.9	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070225\
 Data File : VL042697.D
 Acq On : 02 Jul 2025 13:08
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070225

Quant Time: Jul 03 01:52:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:48:28 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	0.512	0.480	6.3	96	0.00
50 T	4-Methyl-2-Pentanone	0.927	0.967	-4.3	98	0.00
51 T	2-Hexanone	0.674	0.763	-13.2	98	0.00
52 T	Tetrachloroethene	0.337	0.311	7.7	101	0.00
53 T	Toluene	0.941	1.030	-9.5	101	0.00
54 T	1,2-Dibromoethane	0.540	0.515	4.6	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
56	1,1,1,2-Tetrachloroethane	0.541	0.479	11.5	101	0.00
57 T	Chlorobenzene	1.003	0.896	10.7	100	0.00
58 T	Ethyl Benzene	1.446	1.567	-8.4	99	0.00
59 T	m/p-Xylene	1.211	1.287	-6.3	99	0.02
60 T	o-Xylene	1.192	1.265	-6.1	100	0.00
61 T	Styrene	0.468	0.526	-12.4	97	0.00
62	Isopropylbenzene	1.799	1.837	-2.1	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.918	0.833	9.3	102	0.00
64	n-propylbenzene	0.460	0.488	-6.1	101	0.00
65	tert-Butylbenzene	1.539	1.587	-3.1	100	0.00
66 T	Benzyl Chloride	0.149	0.153	-2.7	96	0.00
67	sec-Butylbenzene	2.358	2.328	1.3	101	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.782	-1.7	100	0.00
69	p-Isopropyltoluene	1.877	1.903	-1.4	100	0.00
70	n-Butylbenzene	1.891	1.978	-4.6	100	0.00
71	2-Chlorotoluene	1.331	1.394	-4.7	100	0.00
72 T	4-Ethyltoluene	1.454	1.564	-7.6	100	0.00
73 T	1,3,5-Trimethylbenzene	1.226	1.303	-6.3	101	0.00
74 T	1,2,4-Trimethylbenzene	1.398	1.410	-0.9	99	0.00
75 T	1,3-Dichlorobenzene	0.981	0.901	8.2	100	0.00
76 T	1,4-Dichlorobenzene	0.931	0.882	5.3	99	0.00
77 T	1,2-Dichlorobenzene	0.991	0.864	12.8	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.772	0.596	22.8	98	0.00
79 T	Naphthalene	1.167	1.310	-12.3	95	0.00
80 T	Naphthalene,2-methyl-	0.485	0.510	-5.2	83	0.00
81 T	1,2,4-Trichlorobenzene	0.680	0.668	1.8	97	0.00

(#) = Out of Range

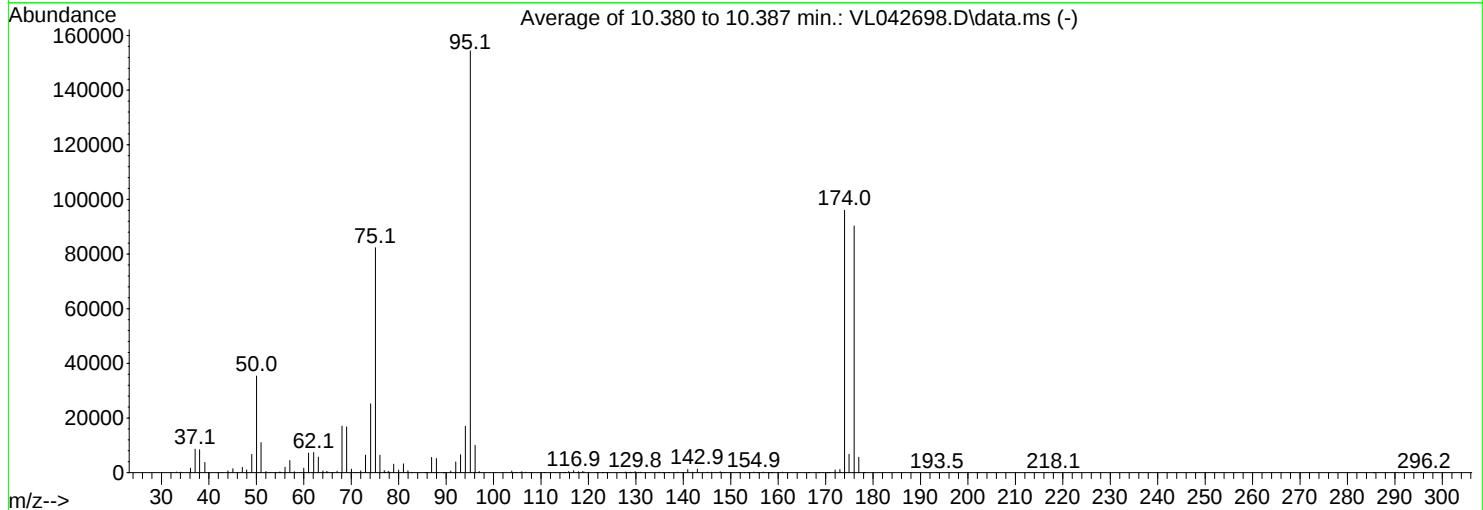
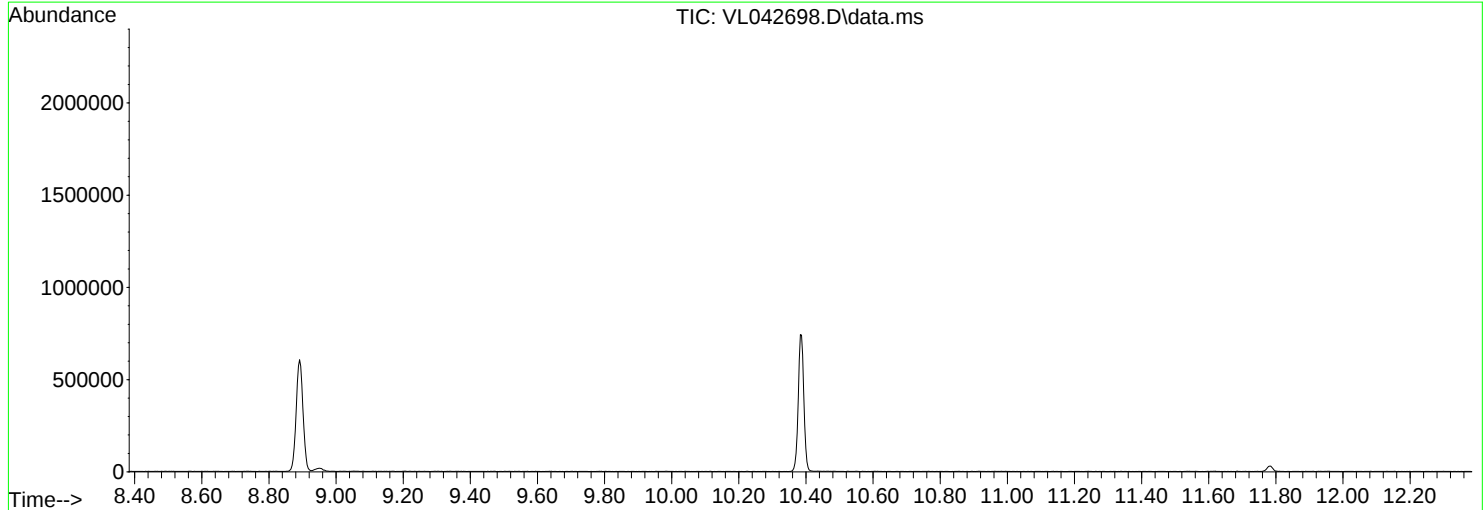
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042698.D
Acq On : 03 Jul 2025 07:53
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\VL070225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 03 01:50:16 2025



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3168

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.9	35379	PASS
75	95	30	66	53.3	82365	PASS
95	95	100	100	100.0	154389	PASS
96	95	5	9	6.5	10039	PASS
173	174	0.00	2	1.2	1198	PASS
174	95	50	120	62.2	96059	PASS
175	174	4	9	7.0	6756	PASS
176	174	93	101	94.0	90304	PASS
177	176	5	9	6.3	5645	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042699.D
 Acq On : 03 Jul 2025 08:36
 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 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 03:52:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:50:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	121789	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	298981	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	266456	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 209470 10.221 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	113451	8.898	ppbv	97
3) Chlorodifluoromethane	1.479	51	175020	9.180	ppbv	99
4) Chloromethane	1.538	50	44548	8.908	ppbv	96
5) Vinyl Chloride	1.583	62	39905	7.939	ppbv	99
6) Bromomethane	1.674	94	19554	8.708	ppbv	93
7) Chloroethane	1.709	64	16555	8.578	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	91155	8.629	ppbv	98
9) Propene	1.486	41	63173	8.856	ppbv	100
10) Heptane	4.998	43	203738	10.517	ppbv	98
11) Trichlorofluoromethane	1.884	101	121123	9.010	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	96957	9.112	ppbv	98
13) Ethanol	1.725	45	4728	6.868	ppbv	90
14) Bromoethene	1.787	108	33081	8.920	ppbv	98
15) Acetone	1.842	43	97496	8.071	ppbv	99
16) 1,3-Butadiene	1.612	39	47889	8.604	ppbv	100
17) tert-Butyl alcohol	2.046	59	110624	9.388	ppbv	98
18) 1,1-Dichloroethene	2.039	96	41172	8.709	ppbv	100
19) Isopropyl Alcohol	1.890	45	61393	8.843	ppbv #	1
20) Methylene Chloride	2.068	84	36371	7.874	ppbv	99
21) Allyl Chloride	2.101	41	78148	9.275	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	46791	9.086	ppbv	92
23) Vinyl Acetate	2.470	43	213218	10.908	ppbv	99
24) 1,1-Dichloroethane	2.415	63	94888	8.915	ppbv	99
25) Ethyl Acetate	2.842	43	362702	9.927	ppbv	100
26) Hexane	2.836	57	153787	10.088	ppbv	99
27) Carbon Disulfide	2.156	76	113800	9.154	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	63058	10.110	ppbv	99
29) Chloroform	2.858	83	211103	9.168	ppbv	99
30) Cyclohexane	3.868	84	119480	10.395	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	140617	9.692	ppbv	98
32) 1,1,1-Trichloroethane	3.379	97	192929	8.733	ppbv	99
34) 2-Butanone	2.564	43	231566	9.786	ppbv	100
35) Carbon Tetrachloride	3.774	117	190681	9.217	ppbv	99
36) Benzene	3.667	78	298352	9.901	ppbv	96
37) 1,2-Dichloroethane	3.227	62	152332	9.519	ppbv	99
38) Trichloroethene	4.567	130	115883	8.902	ppbv	94
39) 1,2-Dichloropropane	4.328	63	113900	9.692	ppbv	99
40) 1,4-Dioxane	4.596	88	46509	10.213	ppbv #	95
41) Tetrahydrofuran	3.062	42	130187	10.796	ppbv	98
42) Bromodichloromethane	4.506	83	221829	9.786	ppbv	97
43) Methyl Methacrylate	4.894	69	106229	10.962	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	530602	10.482	ppbv	100
45) t-1,3-Dichloropropene	6.431	75	107246	10.543	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042699.D
 Acq On : 03 Jul 2025 08:36
 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 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 03:52:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:50:16 2025

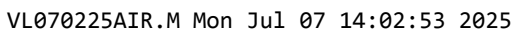
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	147452	10.506	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	113558	9.811	ppbv	96
48) Dibromochloromethane	7.406	129	175019	9.875	ppbv	99
49) Bromoform	9.497	173	149140	9.743	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	304956	11.006	ppbv	99
51) 2-Hexanone	7.451	43	240078	11.908	ppbv	98
52) Tetrachloroethene	8.237	164	95193	9.451	ppbv	94
53) Toluene	6.953	91	313922	11.157	ppbv	99
54) 1,2-Dibromoethane	7.668	107	161254	9.994	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	135428	9.400	ppbv	98
57) Chlorobenzene	8.937	112	249410	9.330	ppbv	98
58) Ethyl Benzene	9.367	91	430818	11.180	ppbv	98
59) m/p-Xylene	9.565	91	709280m	21.975	ppbv	
60) o-Xylene	9.976	91	350917	11.052	ppbv	99
61) Styrene	9.882	104	145889	11.697	ppbv	99
62) Isopropylbenzene	10.552	105	512377	10.692	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	231326	9.461	ppbv	98
64) n-propylbenzene	10.998	120	134154	10.934	ppbv	99
65) tert-Butylbenzene	11.542	119	439909	10.725	ppbv	99
66) Benzyl Chloride	11.626	91	42511	10.697	ppbv	99
67) sec-Butylbenzene	11.778	105	642441	10.223	ppbv	100
69) p-Isopropyltoluene	11.937	119	528482	10.567	ppbv	100
70) n-Butylbenzene	12.290	91	550637	10.928	ppbv	99
71) 2-Chlorotoluene	10.911	91	384447	10.844	ppbv	99
72) 4-Ethyltoluene	11.134	105	431686	11.142	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	357192	10.936	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	390891	10.490	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	247836	9.480	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	247356	9.970	ppbv	100
77) 1,2-Dichlorobenzene	11.956	146	242468	9.181	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	168191	8.177	ppbv	100
79) Naphthalene	13.523	128	359527	11.560	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	142000	10.993	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	184786	10.196	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Jul 04 03:52:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042699.D
 Acq On : 03 Jul 2025 08:36
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jul 04 03:52:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:50:16 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	100	0.00
2 T	Dichlorodifluoromethane	1.047	0.932	11.0	100	0.00
3	Chlorodifluoromethane	1.565	1.437	8.2	103	0.00
4	Chloromethane	0.411	0.366	10.9	99	0.00
5 T	Vinyl Chloride	0.413	0.328	20.6	100	0.00
6 T	Bromomethane	0.184	0.161	12.5	106	0.00
7	Chloroethane	0.158	0.136	13.9	101	0.00
8 T	Dichlorotetrafluoroethane	0.867	0.748	13.7	101	0.00
9 T	Propene	0.586	0.519	11.4	99	0.00
10 T	Heptane	1.591	1.673	-5.2	101	0.00
11 T	Trichlorofluoromethane	1.104	0.995	9.9	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.874	0.796	8.9	103	0.00
13	Ethanol	0.057	0.039#	31.6#	101	0.00
14 T	Bromoethene	0.305	0.272	10.8	101	0.00
15 T	Acetone	0.992	0.801	19.3	105	0.00
16 T	1,3-Butadiene	0.457	0.393	14.0	102	0.00
17	tert-Butyl alcohol	0.968	0.908	6.2	102	0.00
18 T	1,1-Dichloroethene	0.388	0.338	12.9	101	0.00
19 T	Isopropyl Alcohol	0.570	0.504	11.6	101	0.00
20 T	Methylene Chloride	0.379	0.299	21.1	105	0.00
21 T	Allyl Chloride	0.692	0.642	7.2	101	0.00
22 T	trans-1,2-Dichloroethene	0.423	0.384	9.2	104	0.00
23 T	Vinyl Acetate	1.605	1.751	-9.1	99	0.00
24 T	1,1-Dichloroethane	0.874	0.779	10.9	101	0.00
25 T	Ethyl Acetate	3.000	2.978	0.7	103	0.00
26 T	Hexane	1.252	1.263	-0.9	104	0.00
27 T	Carbon Disulfide	1.021	0.934	8.5	100	0.00
28 T	Methyl tert-Butyl Ether	0.512	0.518	-1.2	101	0.00
29 T	Chloroform	1.891	1.733	8.4	104	0.00
30 T	Cyclohexane	0.944	0.981	-3.9	103	0.00
31 T	cis-1,2-Dichloroethene	1.191	1.155	3.0	102	0.00
32 T	1,1,1-Trichloroethane	1.814	1.584	12.7	103	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34 T	2-Butanone	0.791	0.775	2.0	102	0.00
35 T	Carbon Tetrachloride	0.692	0.638	7.8	101	0.00
36 T	Benzene	1.008	0.998	1.0	101	0.00
37 T	1,2-Dichloroethane	0.535	0.510	4.7	101	0.00
38 T	Trichloroethene	0.435	0.388	10.8	100	0.00
39 T	1,2-Dichloropropane	0.393	0.381	3.1	104	0.00
40 T	1,4-Dioxane	0.152	0.156	-2.6	98	0.00
41 T	Tetrahydrofuran	0.403	0.435	-7.9	102	0.00
42 T	Bromodichloromethane	0.758	0.742	2.1	101	0.00
43	Methyl Methacrylate	0.324	0.355	-9.6	98	0.00
44 T	2,2,4-Trimethylpentane	1.693	1.775	-4.8	102	0.00
45 T	t-1,3-Dichloropropene	0.340	0.359	-5.6	94	0.00
46 T	cis-1,3-Dichloropropene	0.469	0.493	-5.1	98	0.00
47 T	1,1,2-Trichloroethane	0.387	0.380	1.8	101	0.00
48 T	Dibromochloromethane	0.593	0.585	1.3	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042699.D
 Acq On : 03 Jul 2025 08:36
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jul 04 03:52:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:50:16 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	0.512	0.499	2.5	96	0.00
50 T	4-Methyl-2-Pentanone	0.927	1.020	-10.0	100	0.00
51 T	2-Hexanone	0.674	0.803	-19.1	99	0.00
52 T	Tetrachloroethene	0.337	0.318	5.6	99	0.00
53 T	Toluene	0.941	1.050	-11.6	99	0.00
54 T	1,2-Dibromoethane	0.540	0.539	0.2	100	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.541	0.508	6.1	103	0.00
57 T	Chlorobenzene	1.003	0.936	6.7	101	0.00
58 T	Ethyl Benzene	1.446	1.617	-11.8	99	0.00
59 T	m/p-Xylene	1.211	1.331	-9.9	99	0.02
60 T	o-Xylene	1.192	1.317	-10.5	101	0.00
61 T	Styrene	0.468	0.548	-17.1	97	0.00
62	Isopropylbenzene	1.799	1.923	-6.9	101	0.00
63 T	1,1,2,2-Tetrachloroethane	0.918	0.868	5.4	103	0.00
64	n-propylbenzene	0.460	0.503	-9.3	100	0.00
65	tert-Butylbenzene	1.539	1.651	-7.3	101	0.00
66 T	Benzyl Chloride	0.149	0.160	-7.4	96	0.00
67	sec-Butylbenzene	2.358	2.411	-2.2	101	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.786	-2.2	97	0.00
69	p-Isopropyltoluene	1.877	1.983	-5.6	100	0.00
70	n-Butylbenzene	1.891	2.067	-9.3	101	0.00
71	2-Chlorotoluene	1.331	1.443	-8.4	100	0.00
72 T	4-Ethyltoluene	1.454	1.620	-11.4	100	0.00
73 T	1,3,5-Trimethylbenzene	1.226	1.341	-9.4	100	0.00
74 T	1,2,4-Trimethylbenzene	1.398	1.467	-4.9	100	0.00
75 T	1,3-Dichlorobenzene	0.981	0.930	5.2	99	0.00
76 T	1,4-Dichlorobenzene	0.931	0.928	0.3	101	0.00
77 T	1,2-Dichlorobenzene	0.991	0.910	8.2	102	0.00
78 T	Hexachloro-1,3-Butadiene	0.772	0.631	18.3	100	0.00
79 T	Naphthalene	1.167	1.349	-15.6	94	0.00
80 T	Naphthalene,2-methyl-	0.485	0.533	-9.9	83	0.00
81 T	1,2,4-Trichlorobenzene	0.680	0.693	-1.9	97	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042700.D
 Acq On : 03 Jul 2025 09:22
 Operator : SY/MD
 Sample : VL0703ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0703ABL01

Quant Time: Jul 04 03:54:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:50:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	115394	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	287579	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	245420	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	184194	9.758	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.600%

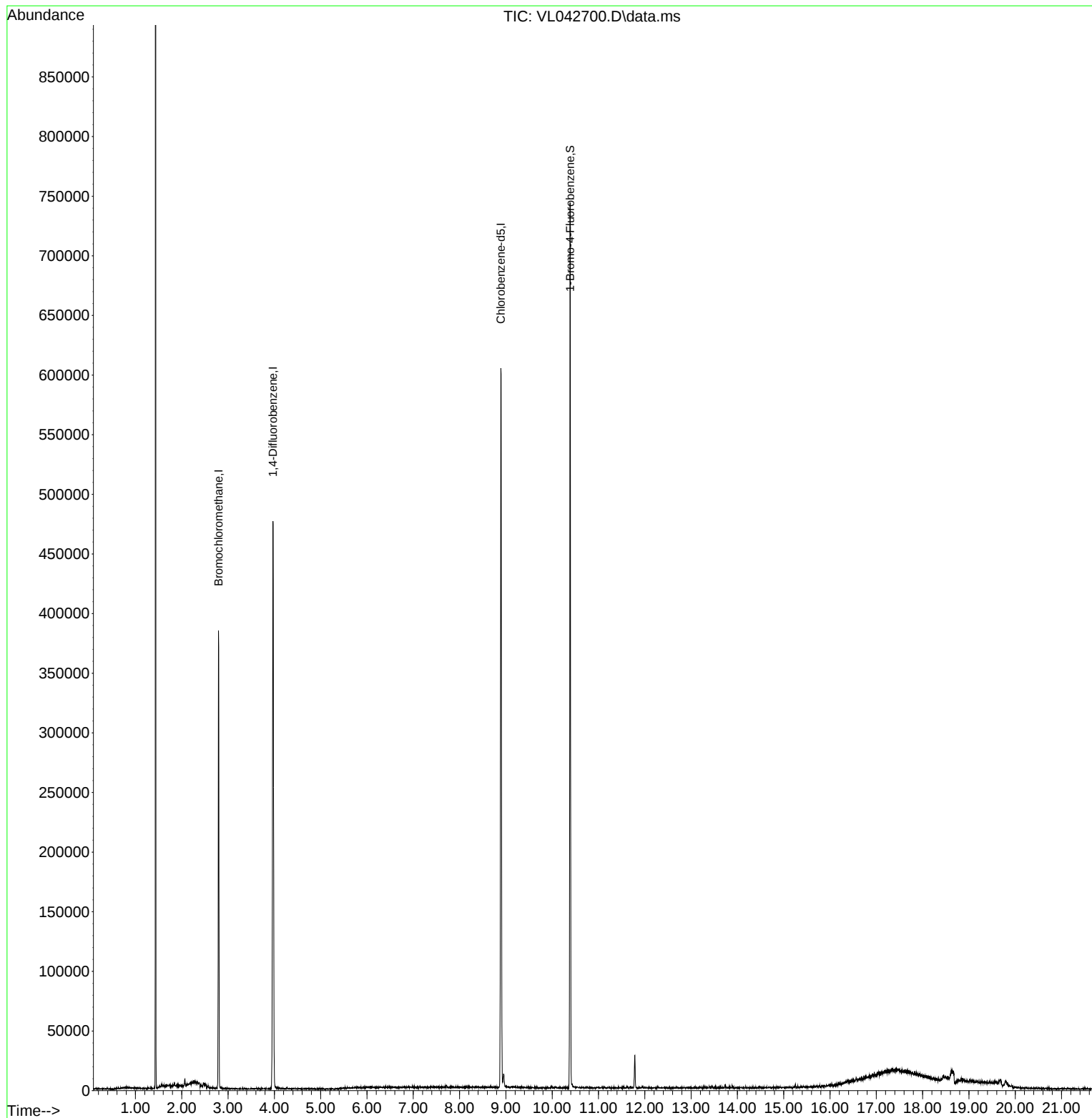
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042700.D
Acq On : 03 Jul 2025 09:22
Operator : SY/MD
Sample : VL0703ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0703ABL01

Quant Time: Jul 04 03:54:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042701.D
 Acq On : 03 Jul 2025 10:05
 Operator : SY/MD
 Sample : VL0703ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0703ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 03:54:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:50:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	121904	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	294901	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	266088	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.386 95 208227 10.174 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	118439	9.280	ppbv	98
3) Chlorodifluoromethane	1.479	51	174243	9.131	ppbv	99
4) Chloromethane	1.538	50	45584	9.107	ppbv	100
5) Vinyl Chloride	1.583	62	40498	8.049	ppbv	98
6) Bromomethane	1.673	94	19965	8.883	ppbv	98
7) Chloroethane	1.709	64	16598	8.592	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	94456	8.933	ppbv	100
9) Propene	1.486	41	64144	8.983	ppbv	100
10) Heptane	4.997	43	207786	10.716	ppbv	99
11) Trichlorofluoromethane	1.884	101	123932	9.210	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	97162	9.122	ppbv	99
13) Ethanol	1.725	45	5316	7.715	ppbv	99
14) Bromoethene	1.787	108	34350	9.253	ppbv	97
15) Acetone	1.839	43	96711	7.999	ppbv	99
16) 1,3-Butadiene	1.612	39	47290	8.488	ppbv	99
17) tert-Butyl alcohol	2.046	59	112857	9.569	ppbv	98
18) 1,1-Dichloroethene	2.039	96	41585	8.788	ppbv	95
19) Isopropyl Alcohol	1.890	45	64365	9.262	ppbv	100
20) Methylene Chloride	2.068	84	35728	7.728	ppbv	98
21) Allyl Chloride	2.101	41	78262	9.280	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	46313	8.985	ppbv	97
23) Vinyl Acetate	2.470	43	204104	10.432	ppbv	99
24) 1,1-Dichloroethane	2.415	63	93450	8.772	ppbv	98
25) Ethyl Acetate	2.842	43	360682	9.862	ppbv	99
26) Hexane	2.835	57	158622	10.396	ppbv	95
27) Carbon Disulfide	2.156	76	116687	9.378	ppbv	98
28) Methyl tert-Butyl Ether	2.450	73	77286	12.379	ppbv	100
29) Chloroform	2.858	83	210730	9.143	ppbv	98
30) Cyclohexane	3.871	84	120924	10.511	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	141397	9.736	ppbv	91
32) 1,1,1-Trichloroethane	3.376	97	194157	8.780	ppbv	99
34) 2-Butanone	2.564	43	234275	10.037	ppbv	99
35) Carbon Tetrachloride	3.774	117	190733	9.347	ppbv	96
36) Benzene	3.670	78	296341	9.970	ppbv	96
37) 1,2-Dichloroethane	3.230	62	152187	9.641	ppbv	100
38) Trichloroethene	4.564	130	115195	8.971	ppbv	95
39) 1,2-Dichloropropane	4.327	63	115554	9.968	ppbv	95
40) 1,4-Dioxane	4.596	88	46836	10.427	ppbv #	95
41) Tetrahydrofuran	3.062	42	130900	11.005	ppbv	98
42) Bromodichloromethane	4.505	83	223978	10.017	ppbv	98
43) Methyl Methacrylate	4.897	69	108635	11.366	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	534397	10.703	ppbv	99
45) t-1,3-Dichloropropene	6.431	75	108628	10.827	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042701.D
 Acq On : 03 Jul 2025 10:05
 Operator : SY/MD
 Sample : VL0703ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0703ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2025
 Supervised By :Mahesh Dadoda 07/07/2025

Quant Time: Jul 04 03:54:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:50:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	144794	10.459	ppbv	97
47) 1,1,2-Trichloroethane	6.600	97	116323	10.189	ppbv	96
48) Dibromochloromethane	7.402	129	175715	10.051	ppbv	98
49) Bromoform	9.496	173	150590	9.974	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	307810	11.262	ppbv	100
51) 2-Hexanone	7.451	43	240804	12.109	ppbv	99
52) Tetrachloroethene	8.237	164	94949	9.557	ppbv	94
53) Toluene	6.952	91	314837	11.345	ppbv	99
54) 1,2-Dibromoethane	7.671	107	159118	9.998	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	134792	9.368	ppbv	98
57) Chlorobenzene	8.936	112	249953	9.363	ppbv	99
58) Ethyl Benzene	9.367	91	435917	11.328	ppbv	98
59) m/p-Xylene	9.564	91	718262m	22.284	ppbv	
60) o-Xylene	9.979	91	351150	11.075	ppbv	99
61) Styrene	9.885	104	147279	11.824	ppbv	100
62) Isopropylbenzene	10.552	105	508294	10.621	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	233464	9.561	ppbv	99
64) n-propylbenzene	10.998	120	135020	11.020	ppbv	99
65) tert-Butylbenzene	11.542	119	438665	10.709	ppbv	99
66) Benzyl Chloride	11.626	91	42770	10.777	ppbv	99
67) sec-Butylbenzene	11.778	105	637683	10.162	ppbv	99
69) p-Isopropyltoluene	11.937	119	525771	10.527	ppbv	100
70) n-Butylbenzene	12.290	91	543203	10.796	ppbv	100
71) 2-Chlorotoluene	10.914	91	385505	10.889	ppbv	99
72) 4-Ethyltoluene	11.134	105	431452	11.152	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	353407	10.835	ppbv	98
74) 1,2,4-Trimethylbenzene	11.548	105	391311	10.516	ppbv	93
75) 1,3-Dichlorobenzene	11.616	146	248327	9.512	ppbv	100
76) 1,4-Dichlorobenzene	11.681	146	241776	9.758	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	237403	9.002	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	167030	8.132	ppbv	99
79) Naphthalene	13.520	128	360852	11.619	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	142084	11.015	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	184434	10.191	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042701.D
 Acq On : 03 Jul 2025 10:05
 Operator : SY/MD
 Sample : VL0703ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0703ABS01

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/07/2025
 Supervised By : Mahesh Dadoda 07/07/2025

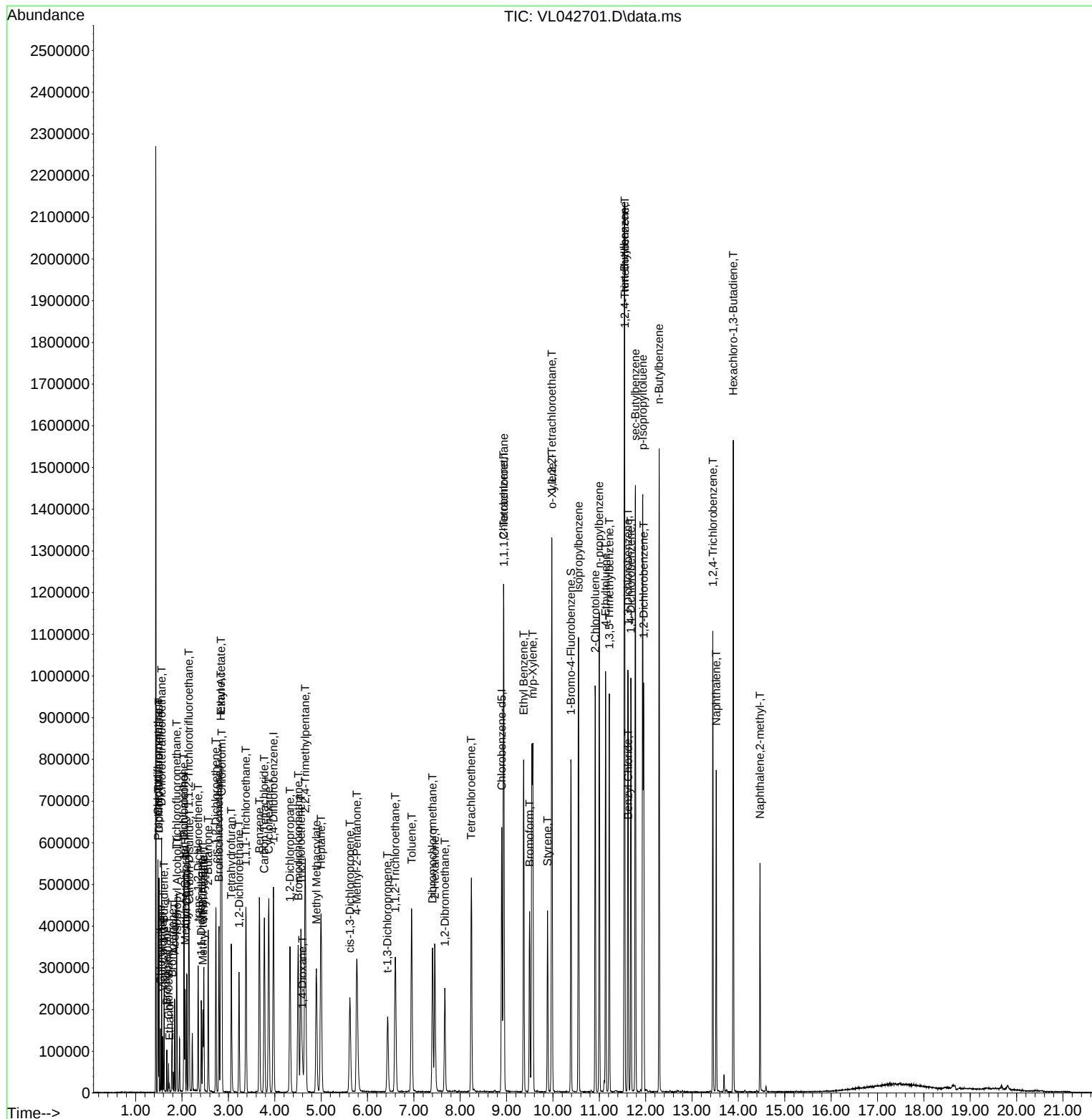
Quant Time: Jul 04 03:54:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M

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

QLast Update : Thu Jul 03 01:50:16 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042702.D
 Acq On : 03 Jul 2025 10:38
 Operator : SY/MD
 Sample : QC063025 CAN 10606
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC063025 CAN 10606

Quant Time: Jul 04 03:55:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:50:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	115729	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	286481	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	247417	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	184216	9.680	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

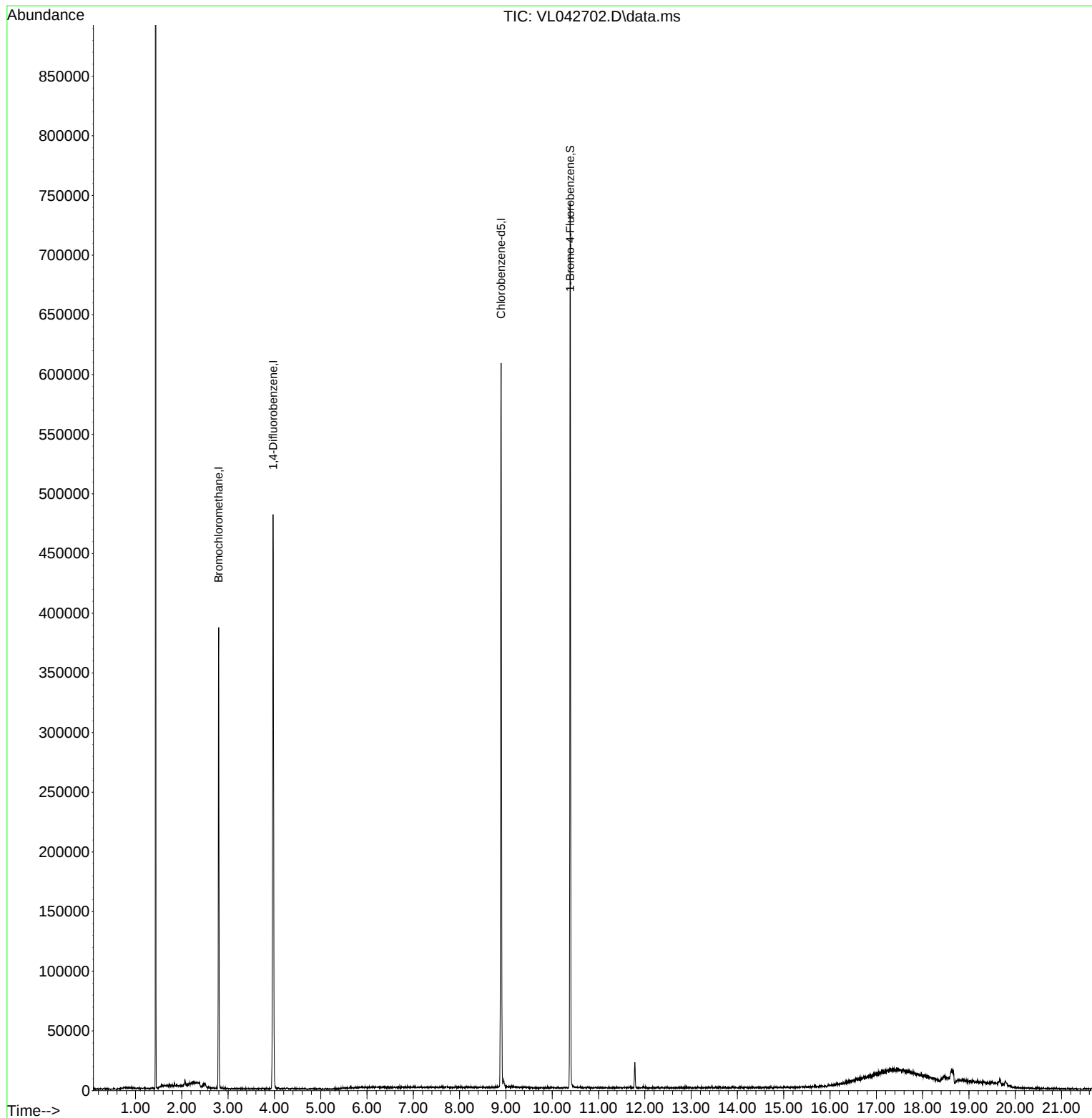
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042702.D
Acq On : 03 Jul 2025 10:38
Operator : SY/MD
Sample : QC063025 CAN 10606
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC063025 CAN 10606

Quant Time: Jul 04 03:55:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
 Data File : VL042703.D
 Acq On : 03 Jul 2025 11:10
 Operator : SY/MD
 Sample : QC070225 CAN 10311
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC070225 CAN 10311

Quant Time: Jul 04 03:55:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 03 01:50:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	113245	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	270763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	233909	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	174467	9.697	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%

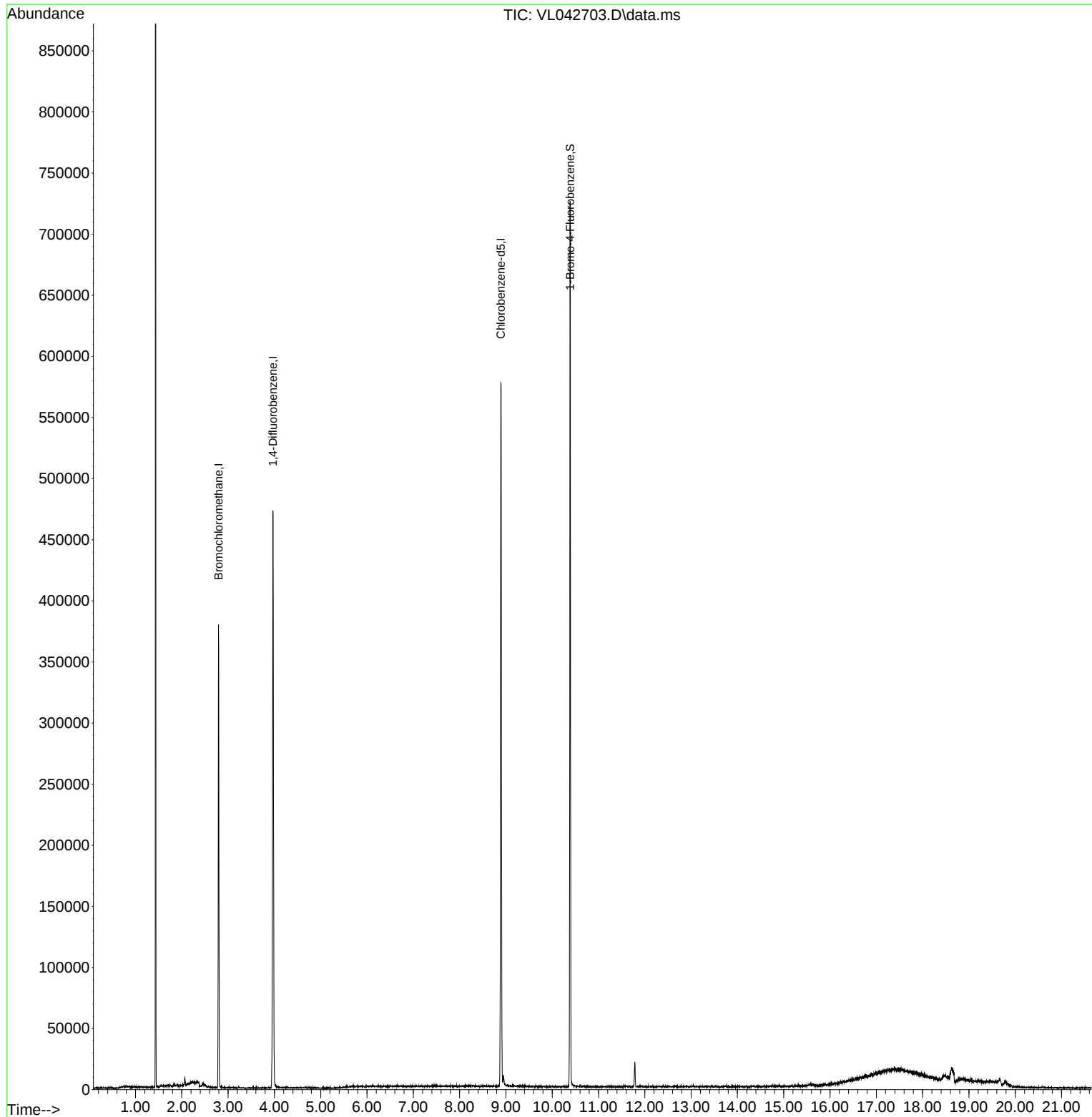
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070325\
Data File : VL042703.D
Acq On : 03 Jul 2025 11:10
Operator : SY/MD
Sample : QC070225 CAN 10311
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC070225 CAN 10311

Quant Time: Jul 04 03:55:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL070225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 03 01:50:16 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	Mahesh 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 # VL070225

Review By	Semsettin Yesilyurt	Review On	7/3/2025 11:20:25 AM		
Supervise By	Maresh Dadoda	Supervise On	7/3/2025 3:09:30 PM		
SubDirectory	VL070225	HP Acquire Method	TO15AIR.M	HP Processing Method	VL070225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2630			
Initial Calibration Stds		AP2633,AP2634,AP2635			
CCC		AP2633			
Internal Standard/PEM		AP2630			
ICV/I.BLK		AP2636			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042688.D	02 Jul 2025 07:41	SY/MD	Ok
2	VSTDICCC010	VL042689.D	02 Jul 2025 08:23	SY/MD	Ok,M
3	VSTDICCC002	VL042690.D	02 Jul 2025 08:56	SY/MD	Ok,M
4	VSTDICCC001	VL042691.D	02 Jul 2025 09:28	SY/MD	Ok,M
5	VSTDICCC0.5	VL042692.D	02 Jul 2025 10:01	SY/MD	Ok,M
6	VSTDICCC0.1	VL042693.D	02 Jul 2025 10:34	SY/MD	Not Ok
7	VSTDICCC0.03	VL042694.D	02 Jul 2025 11:06	SY/MD	Ok,M
8	VSTDICCC015	VL042695.D	02 Jul 2025 11:39	SY/MD	Ok,M
9	VSTDICCC0.1	VL042696.D	02 Jul 2025 12:12	SY/MD	Ok,M
10	VSTDICCV010	VL042697.D	02 Jul 2025 13:08	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL070325

Review By	Semsettin Yesilyurt	Review On	7/7/2025 8:40:16 AM		
Supervise By	Maresh Dadoda	Supervise On	7/7/2025 2:12:46 PM		
SubDirectory	VL070325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL070225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2630			
Initial Calibration Stds		AP2633,AP2634,AP2635			
CCC		AP2633			
Internal Standard/PEM		AP2630			
ICV/I.BLK		AP2636			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042698.D	03 Jul 2025 07:53	SY/MD	Ok
2	VSTDCCC010	VL042699.D	03 Jul 2025 08:36	SY/MD	Ok,M
3	VL0703ABL01	VL042700.D	03 Jul 2025 09:22	SY/MD	Ok
4	VL0703ABS01	VL042701.D	03 Jul 2025 10:05	SY/MD	Ok,M
5	QC063025 CAN 10606	VL042702.D	03 Jul 2025 10:38	SY/MD	Ok
6	QC070225 CAN 10311	VL042703.D	03 Jul 2025 11:10	SY/MD	Ok
7	Q2126-14 0.1 PPB LOQ	VL042704.D	03 Jul 2025 12:43	SY/MD	Not Ok

M : Manual Integration