

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2569				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2569				
ICV/I.BLK	AP2574,MDL,AP2572,AP2573				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDIC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDIC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDIC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

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Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL012725

Review By	Semsettin Yesilyurt	Review On	1/30/2025 10:54:41 AM		
Supervise By	Maresh Dadoda	Supervise On	1/30/2025 11:53:52 AM		
SubDirectory	VL012725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2569				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2569				
ICV/I.BLK	AP2574				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041943.D	27 Jan 2025 09:02	SY/MD	Ok
2	VSTDCCC010	VL041944.D	27 Jan 2025 10:05	SY/MD	Ok,M
3	VL0127ABL01	VL041945.D	27 Jan 2025 10:47	SY/MD	Ok
4	VL0127ABL02	VL041946.D	27 Jan 2025 11:17	SY/MD	Ok
5	VL0127ABS01	VL041947.D	27 Jan 2025 12:19	SY/MD	Ok,M
6	Q1168-14 0.5	VL041948.D	27 Jan 2025 13:05	SY/MD	Ok,M
7	Q1168-13 0.45	VL041949.D	27 Jan 2025 13:36	SY/MD	Ok,M
8	Q1168-13 0.40	VL041950.D	27 Jan 2025 14:06	SY/MD	Ok,M
9	Q1168-13 0.1	VL041951.D	27 Jan 2025 14:37	SY/MD	Ok,M
10	Q1168-13 0.03	VL041952.D	27 Jan 2025 15:09	SY/MD	Not Ok
11	Q1168-14 0.03	VL041953.D	27 Jan 2025 15:40	SY/MD	Not Ok
12	QC012125 CAN 10268	VL041954.D	27 Jan 2025 16:11	SY/MD	Ok
13	QC012125 CAN 10268	VL041955.D	27 Jan 2025 16:42	SY/MD	Not Ok
14	VSTDCCC010	VL041956.D	27 Jan 2025 17:13	SY/MD	Ok,M

M : Manual Integration

Process Report

Order ID : Q1532

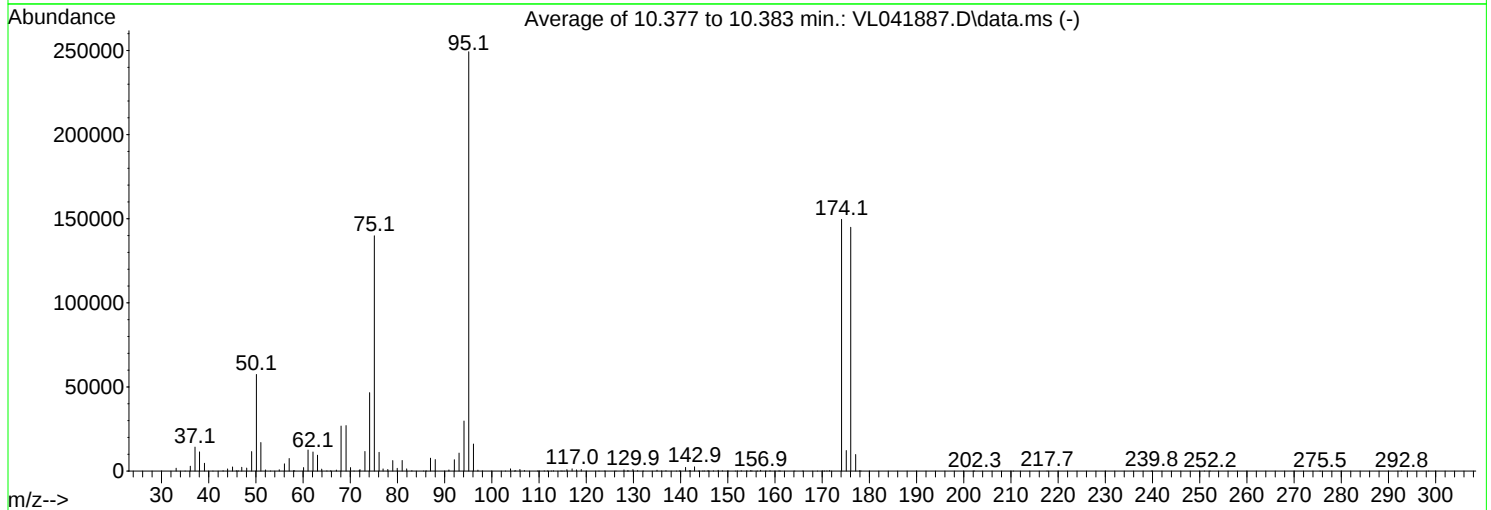
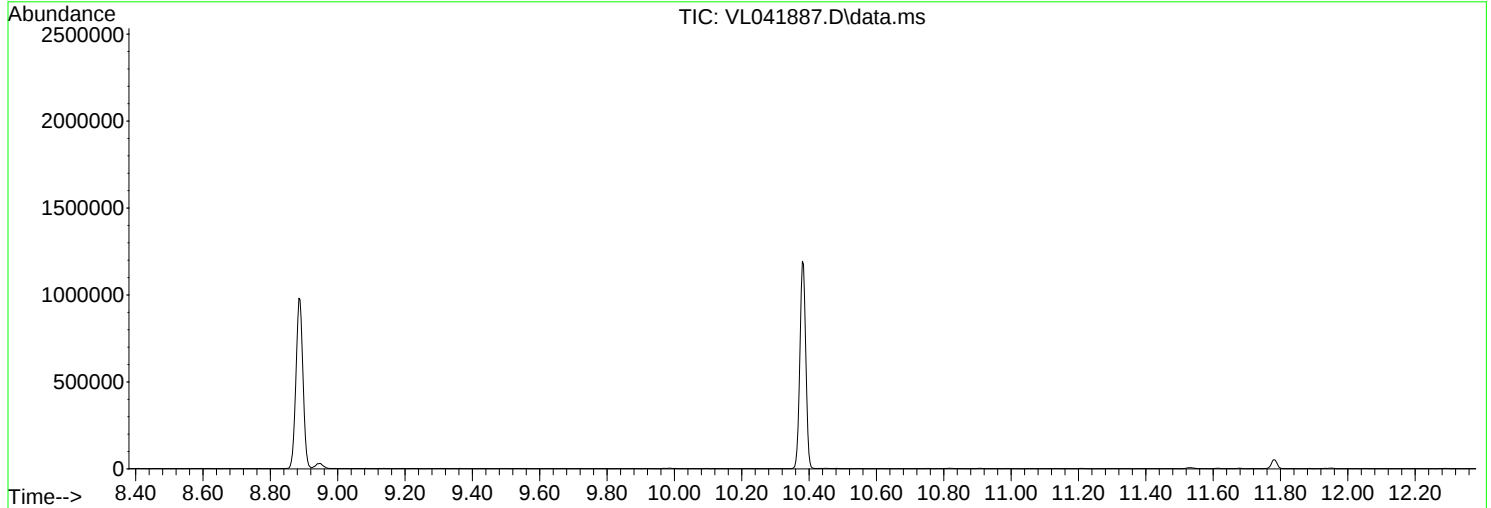
Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/10/2025	B2502012	Q1532-02	-2.7	10590	6 L	10784		C2412002	VL041796.D Seq :vl121824 TUNE : VL041787.D ICAL : VL041757.D CCAL : VL041788.D MB : VL041790.D
03/10/2025	B2502012	Q1532-04	-4.7	10295	6 L	10714		C2412001	VL041782.D Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D
03/10/2025	B2502012	Q1532-03	-4.3	10279	6 L	10704		C2412001	VL041782.D Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D
03/10/2025	B2503003	Q1532-01	-4.7	10303	6 L	10517		C2501003	VL041954.D Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
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\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

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

Method File : VL011425AIR.M

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

Last Update : Tue Jan 14 23:15:42 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3) Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4) Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5) T Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6) T Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7) Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8) T Dichlorotetra...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9) T Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10) T Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11) T Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12) T 1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13) Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14) T Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15) T Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16) T 1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17) tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18) T 1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19) T Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20) T Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21) T Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22) T trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23) T Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24) T 1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25) T Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26) T Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27) T Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28) T Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29) T Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30) T Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31) T cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32) T 1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35) T Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36) T Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37) T 1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38) T Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39) T 1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL011425AIR.M											
40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane	0.440		0.488	0.468	0.494	0.454	0.470	0.469	4.32
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...	0.756		0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene	0.978		1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 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 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 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 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv	100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv	100
49) Bromoform	9.496	173	206751	10.649	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv	100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv #	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv	100
53) Toluene	6.952	91	454085	10.116	ppbv	100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv	99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv	100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv	100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv	
60) o-Xylene	9.979	91	490108	9.848	ppbv	100
61) Styrene	9.885	104	234901	10.522	ppbv	100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv	100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv	99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv	100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv	100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv	100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv	100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv	100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv	100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv	100
79) Naphthalene	13.526	128	502354	8.764	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv	98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv	99
4) Chloromethane	1.538	50	15833	2.050	ppbv	93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv	99
6) Bromomethane	1.673	94	7486	2.008	ppbv	91
7) Chloroethane	1.709	64	6303	2.071	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv	99
9) Propene	1.486	41	18248	2.059	ppbv	95
10) Heptane	5.001	43	49302	2.081	ppbv	97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv	97
13) Ethanol	1.725	45	1534	2.363	ppbv	84
14) Bromoethene	1.787	108	12163	1.984	ppbv #	95
15) Acetone	1.842	43	37867	2.091	ppbv	99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv	100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv	99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv	97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv	94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv	95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv	83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv	99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv	99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv	99
26) Hexane	2.835	57	41844	2.167	ppbv	99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv #	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv	96
29) Chloroform	2.858	83	63457	2.079	ppbv	94
30) Cyclohexane	3.874	84	34518	2.061	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv	89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv	98
34) 2-Butanone	2.570	43	61381	2.135	ppbv	99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv	95
36) Benzene	3.670	78	85859	2.070	ppbv	96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv	100
38) Trichloroethene	4.564	130	33773	2.052	ppbv	98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv	96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv	
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv	96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv	99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 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 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv	94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv	
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv	99
49) Bromoform	9.496	173	39710	2.032	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv	98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv #	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv	94
53) Toluene	6.952	91	94741	2.097	ppbv	98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv	93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv	94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv	98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv	
60) o-Xylene	9.975	91	106458	2.168	ppbv	99
61) Styrene	9.885	104	45490	2.065	ppbv	99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv	99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv	99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv	97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv	97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv	99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv	100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv	99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv	100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv	99
79) Naphthalene	13.526	128	153268	2.710	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 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 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	151226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 312013 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv	95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv	100
4) Chloromethane	1.534	50	7546	0.974	ppbv	94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv	97
6) Bromomethane	1.674	94	4139	1.107	ppbv #	81
7) Chloroethane	1.709	64	3093	1.013	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv	100
9) Propene	1.486	41	8719	0.981	ppbv	93
10) Heptane	5.001	43	24438	1.029	ppbv	96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv	95
13) Ethanol	1.725	45	650	0.998	ppbv #	29
14) Bromoethene	1.787	108	6736	1.096	ppbv #	88
15) Acetone	1.842	43	19681	1.084	ppbv	95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv	98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv	95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv	
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv #	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv #	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv	96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv	97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv	98
26) Hexane	2.836	57	18893	0.975	ppbv	86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv #	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv	98
29) Chloroform	2.858	83	31155	1.017	ppbv	97
30) Cyclohexane	3.871	84	18048	1.074	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv	99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv	98
34) 2-Butanone	2.570	43	29280	1.015	ppbv	99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv	96
36) Benzene	3.671	78	43023	1.035	ppbv	93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv	98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv	
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv	98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv	
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv	
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv	
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 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 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv	
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv	100
49) Bromoform	9.497	173	17876	0.912	ppbv	100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv	
51) 2-Hexanone	7.464	43	28999	0.959	ppbv #	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv #	80
53) Toluene	6.956	91	45140m	0.996	ppbv	
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv	94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv	98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv	99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv	
60) o-Xylene	9.972	91	48888	0.998	ppbv	98
61) Styrene	9.882	104	20285	0.923	ppbv	99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv	97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv	99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv	98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv	
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv	97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv	98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv	99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv	99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv	97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv	99
79) Naphthalene	13.523	128	66232	1.174	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv	99

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

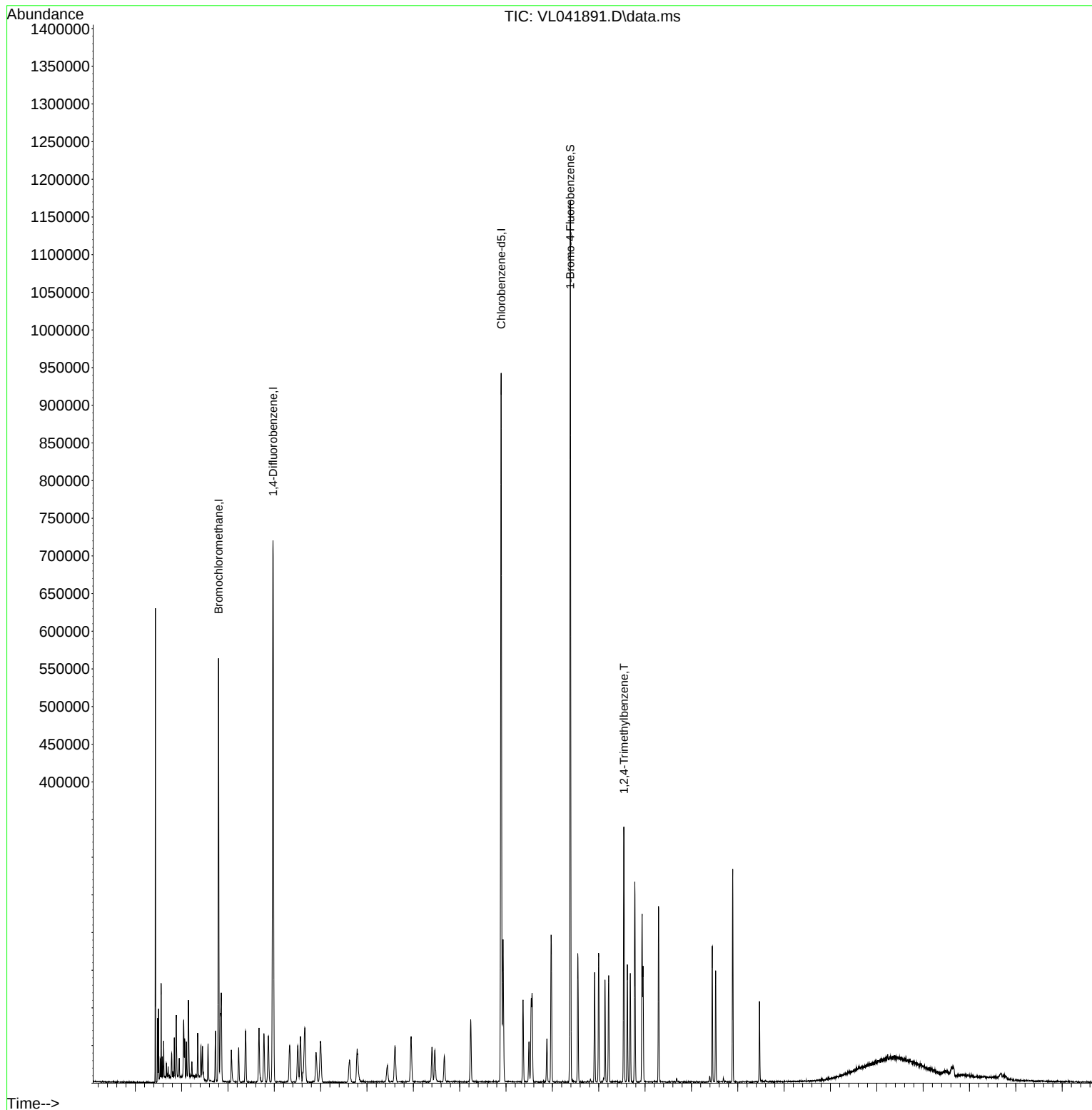
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 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 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	146186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv	99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv	98
4) Chloromethane	1.534	50	3990	0.533	ppbv	98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv	94
6) Bromomethane	1.670	94	1852	0.512	ppbv #	78
7) Chloroethane	1.706	64	1532	0.519	ppbv #	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv	95
9) Propene	1.486	41	4690	0.546	ppbv	85
10) Heptane	4.988	43	11230	0.489	ppbv	95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv	90
13) Ethanol	1.725	45	478m	0.759	ppbv	
14) Bromoethene	1.784	108	3071	0.517	ppbv #	94
15) Acetone	1.839	43	10273	0.585	ppbv	99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv	99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv	95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv #	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv	93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv	89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv	
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv	97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv	97
26) Hexane	2.829	57	9246m	0.494	ppbv	
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv	97
29) Chloroform	2.855	83	15360	0.519	ppbv	92
30) Cyclohexane	3.871	84	7579	0.467	ppbv	92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv #	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv	98
34) 2-Butanone	2.567	43	13981	0.510	ppbv	94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv	89
36) Benzene	3.667	78	19954	0.505	ppbv	95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv	97
38) Trichloroethene	4.561	130	8199	0.523	ppbv #	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv	
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv	
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv	94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv	
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv	95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 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 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv #	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv	
49) Bromoform	9.493	173	8162	0.438	ppbv	97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv	
51) 2-Hexanone	7.454	43	13390	0.466	ppbv #	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv	
53) Toluene	6.946	91	20118	0.467	ppbv	96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv #	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv #	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv #	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv	
60) o-Xylene	9.972	91	22370	0.474	ppbv	97
61) Styrene	9.879	104	9788	0.463	ppbv	99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv	98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv	93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv	98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv	99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv	98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv	98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv	96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv	99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv	89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv	93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv	96
79) Naphthalene	13.520	128	28052	0.516	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv	95

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

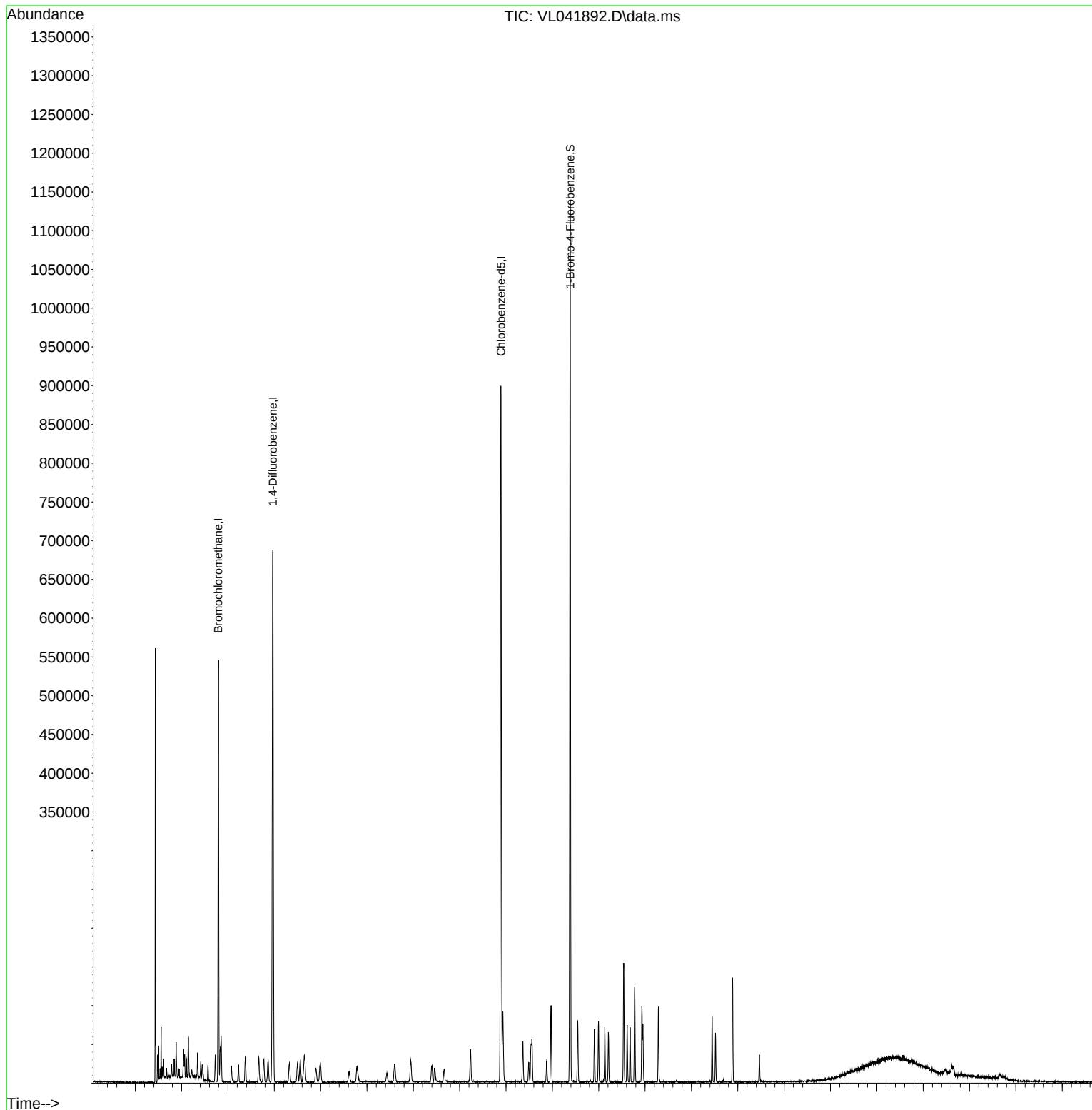
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 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 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv	
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv	
38) Trichloroethene	4.557	130	1816m	0.117	ppbv	
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv	
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv	95
79) Naphthalene	13.520	128	3643	0.068	ppbv #	96

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

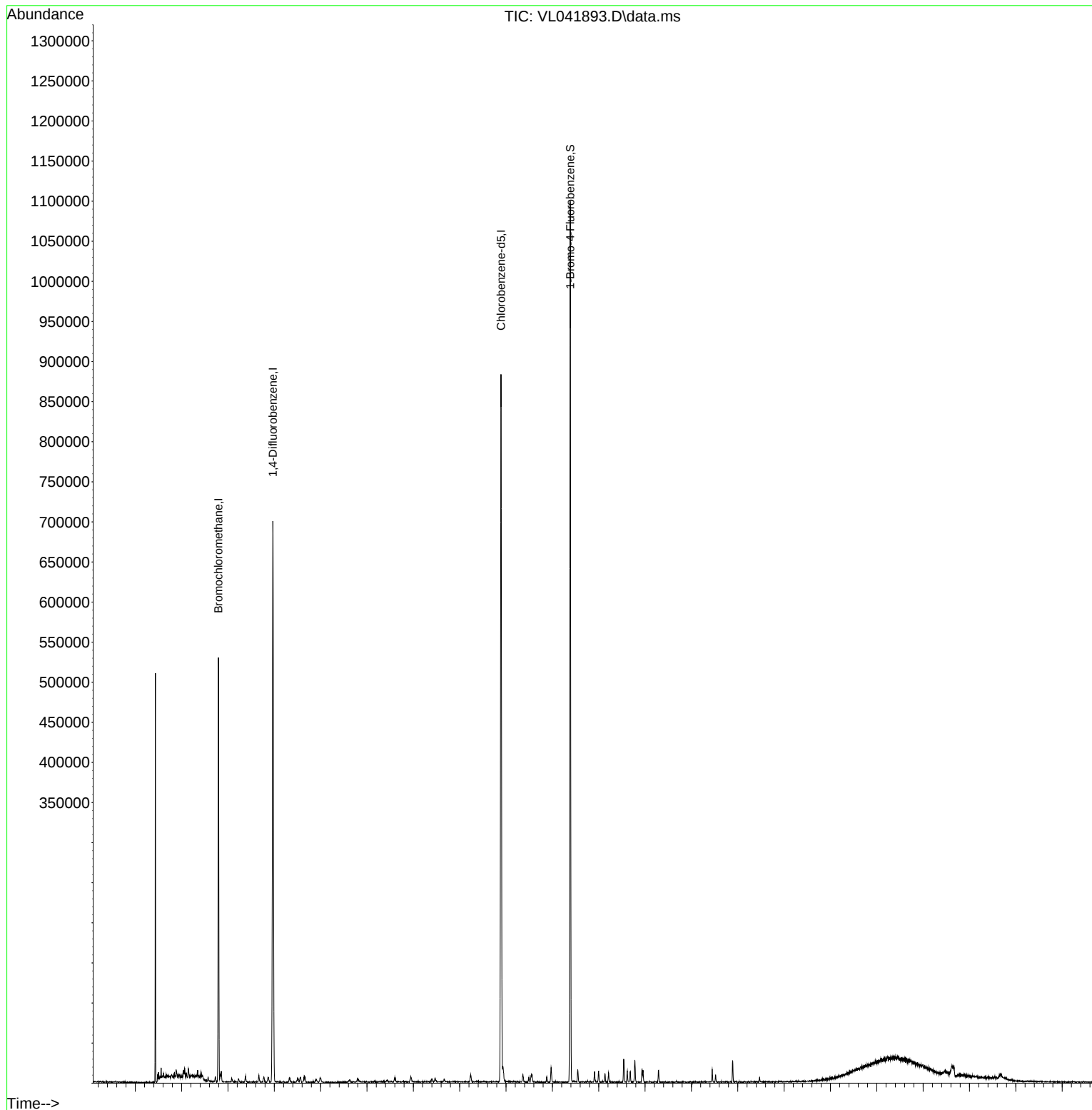
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041894.D
 Acq On : 14 Jan 2025 15:32
 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 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	214m	0.029	ppbv	
32) 1,1,1-Trichloroethane	3.379	97	823	0.030	ppbv	85
35) Carbon Tetrachloride	3.774	117	771	0.029	ppbv #	56
38) Trichloroethene	4.557	130	364m	0.024	ppbv	
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	

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

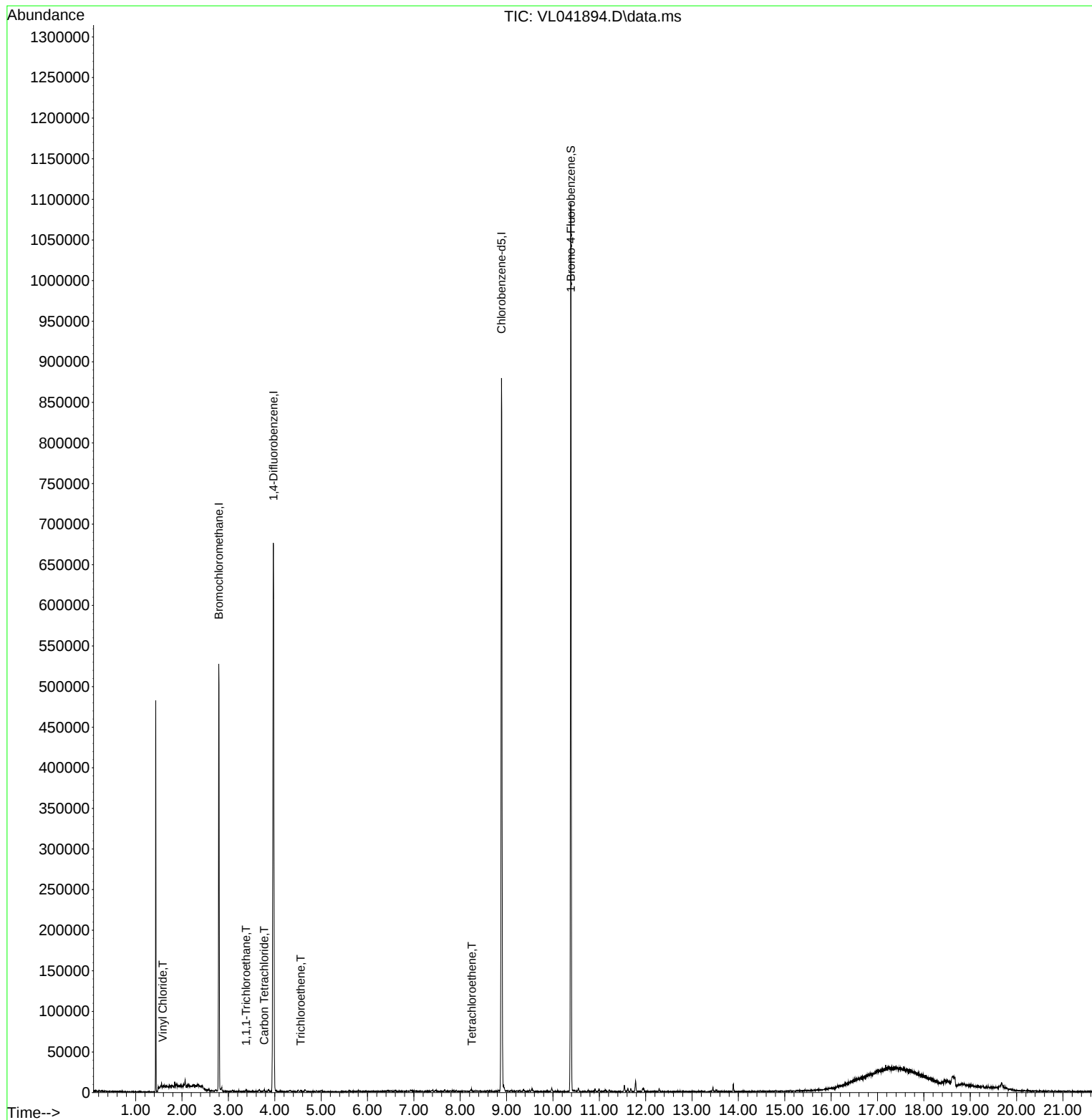
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Jan 14 21:21:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv	95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv	100
49) Bromoform	9.493	173	307617	16.953	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv	99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv #	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv	96
53) Toluene	6.949	91	634515	15.126	ppbv	99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv	98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv	99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv	100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv	
60) o-Xylene	9.976	91	704577	14.765	ppbv	100
61) Styrene	9.882	104	342490	15.999	ppbv	99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv	100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv	100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv	98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv	98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv	100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv	99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv	99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv	100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv	92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv	100
79) Naphthalene	13.523	128	724573	13.183	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv	98

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

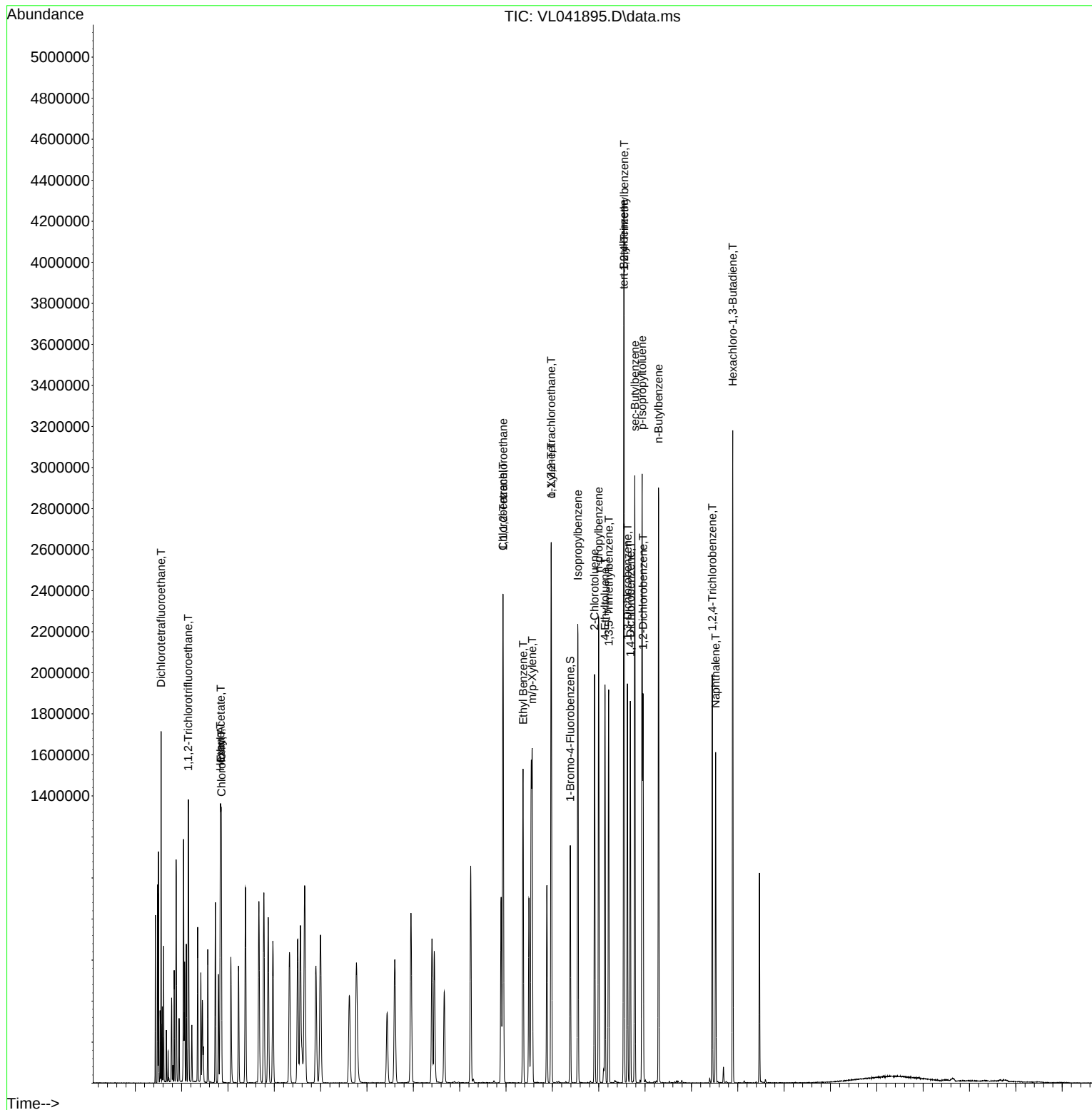
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 298000 10.133 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv	98
47) 1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv	97
48) Dibromochloromethane	7.399	129	238244	10.835	ppbv	100
49) Bromoform	9.493	173	201141	11.136	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv	99
51) 2-Hexanone	7.451	43	284058	10.189	ppbv #	99
52) Tetrachloroethene	8.237	164	127806	9.616	ppbv	98
53) Toluene	6.949	91	427033	10.227	ppbv	99
54) 1,2-Dibromoethane	7.665	107	199339	10.175	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv	99
57) Chlorobenzene	8.933	112	329025	9.553	ppbv	99
58) Ethyl Benzene	9.364	91	601857	10.314	ppbv	99
59) m/p-Xylene	9.561	91	964838m	20.628	ppbv	
60) o-Xylene	9.972	91	480442	10.348	ppbv	100
61) Styrene	9.878	104	229797	11.034	ppbv	99
62) Isopropylbenzene	10.548	105	728189	10.136	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv	100
64) n-propylbenzene	10.998	120	182397	10.048	ppbv	98
65) tert-Butylbenzene	11.539	119	657521	10.043	ppbv	100
66) Benzyl Chloride	11.623	91	42509	10.490	ppbv #	97
67) sec-Butylbenzene	11.778	105	901260	9.997	ppbv	98
69) p-Isopropyltoluene	11.934	119	745566	10.043	ppbv	99
70) n-Butylbenzene	12.290	91	733637	9.965	ppbv	99
71) 2-Chlorotoluene	10.911	91	543858	10.234	ppbv	100
72) 4-Ethyltoluene	11.134	105	568921	10.245	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv	99
79) Naphthalene	13.523	128	497063	9.295	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	93	0.00
2 T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3	Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4	Chloromethane	0.512	0.507	1.0	96	0.00
5 T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6 T	Bromomethane	0.247	0.237	4.0	96	0.00
7	Chloroethane	0.202	0.209	-3.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9 T	Propene	0.588	0.581	1.2	95	0.00
10 T	Heptane	1.571	1.590	-1.2	97	0.00
11 T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13	Ethanol	0.043	0.027#	37.2#	91	0.00
14 T	Bromoethene	0.407	0.404	0.7	101	0.00
15 T	Acetone	1.201	1.060	11.7	99	0.00
16 T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17	tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18 T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19 T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20 T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21 T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23 T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24 T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25 T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26 T	Hexane	1.281	1.302	-1.6	96	0.00
27 T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29 T	Chloroform	2.025	1.994	1.5	97	0.00
30 T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32 T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.636	0.626	1.6	97	0.00
35 T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36 T	Benzene	0.917	0.896	2.3	94	0.00
37 T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38 T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39 T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40 T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41 T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42 T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43	Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45 T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47 T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48 T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	0.432	0.481	-11.3	97	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51 T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52 T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53 T	Toluene	0.999	1.022	-2.3	94	0.00
54 T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57 T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58 T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59 T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60 T	o-Xylene	1.243	1.287	-3.5	98	0.00
61 T	Styrene	0.558	0.615	-10.2	98	0.00
62	Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64	n-propylbenzene	0.486	0.488	-0.4	97	0.00
65	tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66 T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67	sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69	p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70	n-Butylbenzene	1.972	1.965	0.4	97	0.00
71	2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72 T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75 T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76 T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77 T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79 T	Naphthalene	1.432	1.331	7.1	99	0.00
80 T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range

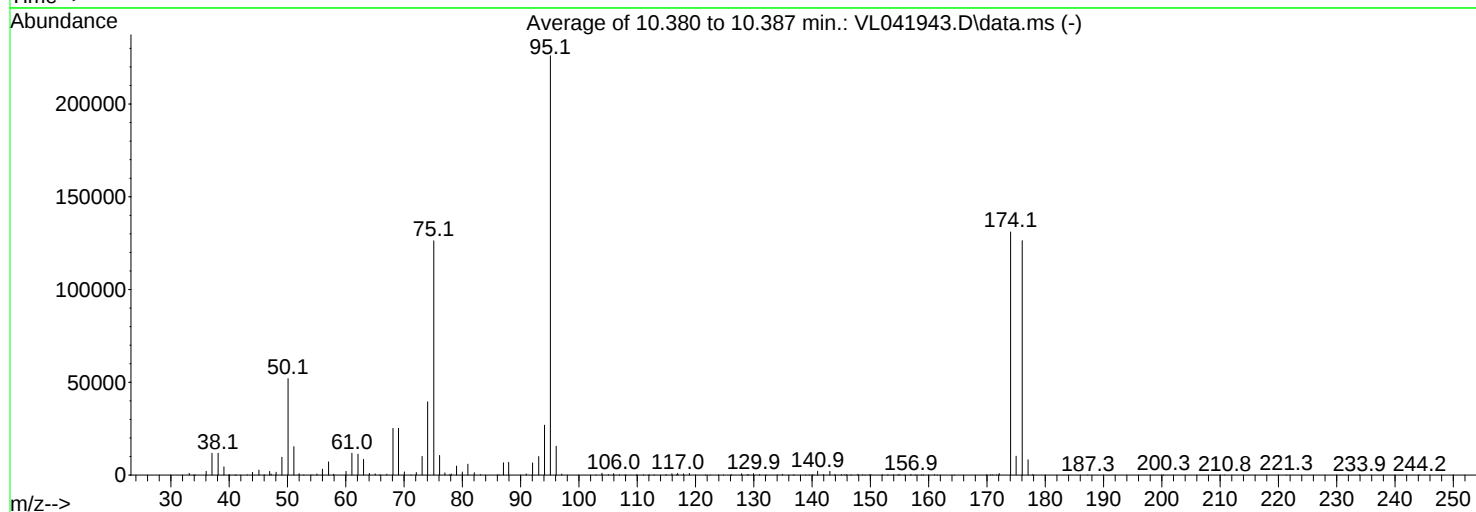
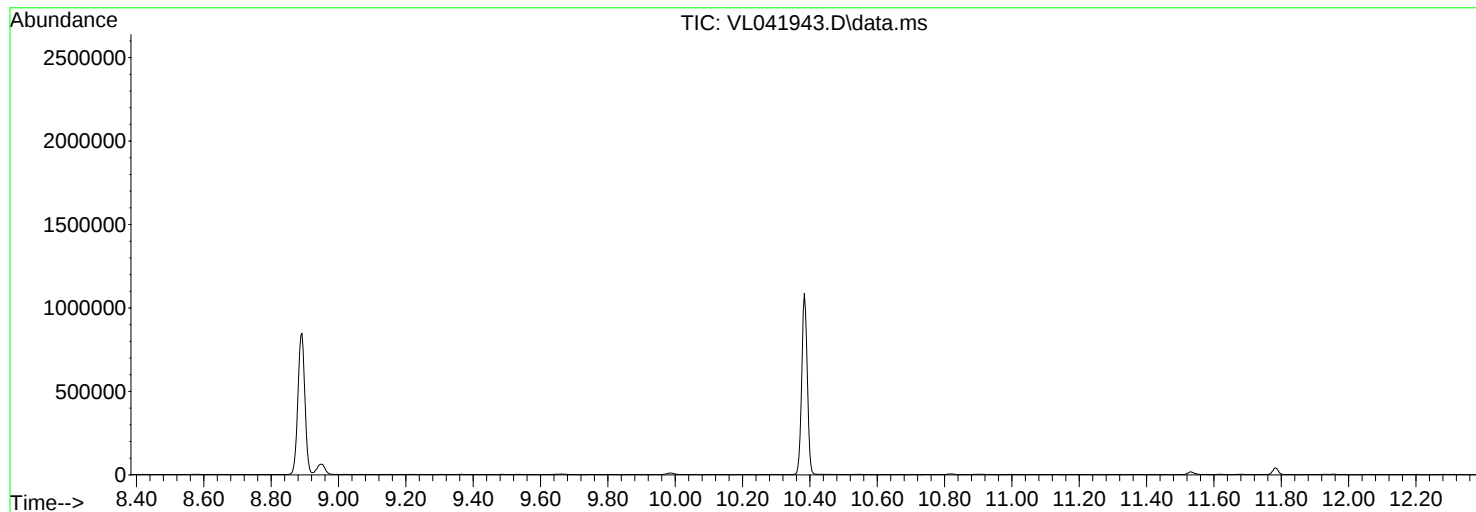
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041943.D
Acq On : 27 Jan 2025 09:02
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\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	51995	PASS
75	95	30	66	55.9	126285	PASS
95	95	100	100	100.0	226027	PASS
96	95	5	9	6.9	15556	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.0	131061	PASS
175	174	4	9	7.8	10200	PASS
176	174	93	101	96.4	126352	PASS
177	176	5	9	6.5	8251	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041944.D
 Acq On : 27 Jan 2025 10:05
 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 01/30/2025
 Supervised By : Mahesh Dadoda 01/30/2025

Quant Time: Jan 28 02:32:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	149075	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	415161	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	364534	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 290387 10.114 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	213119	10.496	ppbv	98
3) Chlorodifluoromethane	1.479	51	227003	10.671	ppbv	100
4) Chloromethane	1.534	50	82387	10.788	ppbv	98
5) Vinyl Chloride	1.583	62	78132	10.101	ppbv	97
6) Bromomethane	1.670	94	37894	10.279	ppbv	98
7) Chloroethane	1.706	64	33025	10.973	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	184435	10.393	ppbv	98
9) Propene	1.486	41	90955	10.380	ppbv	95
10) Heptane	4.994	43	258967	11.056	ppbv	98
11) Trichlorofluoromethane	1.881	101	205801	9.743	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	170817	10.318	ppbv	99
13) Ethanol	1.725	45	4415	6.878	ppbv	94
14) Bromoethene	1.787	108	58083	9.583	ppbv	96
15) Acetone	1.839	43	169478	9.465	ppbv	99
16) 1,3-Butadiene	1.612	39	84348	10.496	ppbv	100
17) tert-Butyl alcohol	2.046	59	207930	9.435	ppbv	98
18) 1,1-Dichloroethene	2.039	96	75629	10.136	ppbv	99
19) Isopropyl Alcohol	1.890	45	96486	9.088	ppbv	95
20) Methylene Chloride	2.065	84	64225	9.076	ppbv	98
21) Allyl Chloride	2.101	41	129597	10.453	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	87196	10.355	ppbv	97
23) Vinyl Acetate	2.470	43	73473	8.278	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	168681	10.356	ppbv	99
25) Ethyl Acetate	2.845	43	533237	11.044	ppbv	99
26) Hexane	2.832	57	211315	11.066	ppbv	97
27) Carbon Disulfide	2.156	76	205971	10.900	ppbv	97
28) Methyl tert-Butyl Ether	2.447	73	111584	7.645	ppbv	100
29) Chloroform	2.858	83	326439	10.814	ppbv	99
30) Cyclohexane	3.871	84	176628	10.664	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	205197	10.205	ppbv	93
32) 1,1,1-Trichloroethane	3.379	97	312255	10.810	ppbv	99
34) 2-Butanone	2.564	43	303997	11.514	ppbv	99
35) Carbon Tetrachloride	3.774	117	316836	12.150	ppbv	99
36) Benzene	3.667	78	432961	11.370	ppbv	97
37) 1,2-Dichloroethane	3.227	62	240456	11.244	ppbv	99
38) Trichloroethene	4.564	130	167416	11.079	ppbv	97
39) 1,2-Dichloropropane	4.324	63	148143	11.091	ppbv	98
40) 1,4-Dioxane	4.596	88	69928	10.367	ppbv #	99
41) Tetrahydrofuran	3.065	42	170732	11.899	ppbv	99
42) Bromodichloromethane	4.502	83	334591	11.669	ppbv	96
43) Methyl Methacrylate	4.897	69	156013	11.029	ppbv	98
44) 2,2,4-Trimethylpentane	4.655	57	717998	11.658	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	147450	11.136	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041944.D
 Acq On : 27 Jan 2025 10:05
 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 01/30/2025
 Supervised By : Mahesh Dadoda 01/30/2025

Quant Time: Jan 28 02:32:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	202424	11.644	ppbv	99
47) 1,1,2-Trichloroethane	6.597	97	164305	11.606	ppbv	97
48) Dibromochloromethane	7.399	129	262942	12.038	ppbv	100
49) Bromoform	9.493	173	216634	12.074	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	410655	11.394	ppbv	100
51) 2-Hexanone	7.451	43	319063	11.521	ppbv #	98
52) Tetrachloroethene	8.238	164	137364	10.404	ppbv	98
53) Toluene	6.946	91	475146	11.456	ppbv	99
54) 1,2-Dibromoethane	7.668	107	224086	11.514	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.937	131	211703	11.640	ppbv	99
57) Chlorobenzene	8.933	112	376929	11.210	ppbv	97
58) Ethyl Benzene	9.364	91	655579	11.507	ppbv	99
59) m/p-Xylene	9.561	91	1069261m	23.416	ppbv	
60) o-Xylene	9.972	91	536013	11.826	ppbv	99
61) Styrene	9.882	104	240993	11.853	ppbv	100
62) Isopropylbenzene	10.548	105	806301	11.496	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	339396	11.718	ppbv	99
64) n-propylbenzene	10.998	120	209670	11.831	ppbv	98
65) tert-Butylbenzene	11.542	119	733219	11.472	ppbv	100
66) Benzyl Chloride	11.626	91	42157	10.656	ppbv	97
67) sec-Butylbenzene	11.778	105	1007276	11.445	ppbv	100
69) p-Isopropyltoluene	11.937	119	838003	11.563	ppbv	99
70) n-Butylbenzene	12.290	91	822628	11.445	ppbv	100
71) 2-Chlorotoluene	10.911	91	593791	11.445	ppbv	100
72) 4-Ethyltoluene	11.134	105	639849	11.802	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	552715	11.544	ppbv	94
74) 1,2,4-Trimethylbenzene	11.545	105	595508	11.485	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	342543	11.149	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	337079	11.213	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	339752	11.157	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	238004	9.523	ppbv	99
79) Naphthalene	13.523	128	531745	10.186	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	172526	6.970	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	242148	9.503	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041944.D
 Acq On : 27 Jan 2025 10:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	1.362	1.430	-5.0	108	0.00
3	Chlorodifluoromethane	1.427	1.523	-6.7	112	0.00
4	Chloromethane	0.512	0.553	-8.0	110	0.00
5 T	Vinyl Chloride	0.519	0.524	-1.0	110	0.00
6 T	Bromomethane	0.247	0.254	-2.8	109	0.00
7	Chloroethane	0.202	0.222	-9.9	113	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.237	-3.9	111	0.00
9 T	Propene	0.588	0.610	-3.7	105	0.00
10 T	Heptane	1.571	1.737	-10.6	111	0.00
11 T	Trichlorofluoromethane	1.417	1.381	2.5	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.146	-3.2	106	0.00
13	Ethanol	0.043	0.030#	30.2#	106	0.00
14 T	Bromoethene	0.407	0.390	4.2	103	0.00
15 T	Acetone	1.201	1.137	5.3	112	0.00
16 T	1,3-Butadiene	0.539	0.566	-5.0	112	0.00
17	tert-Butyl alcohol	1.478	1.395	5.6	98	0.00
18 T	1,1-Dichloroethene	0.501	0.507	-1.2	108	0.00
19 T	Isopropyl Alcohol	0.712	0.647	9.1	102	0.00
20 T	Methylene Chloride	0.475	0.431	9.3	108	0.00
21 T	Allyl Chloride	0.832	0.869	-4.4	107	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.585	-3.5	106	0.00
23 T	Vinyl Acetate	0.595	0.493	17.1	90	0.00
24 T	1,1-Dichloroethane	1.093	1.132	-3.6	109	0.00
25 T	Ethyl Acetate	3.239	3.577	-10.4	113	0.00
26 T	Hexane	1.281	1.418	-10.7	110	0.00
27 T	Carbon Disulfide	1.268	1.382	-9.0	108	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.749	23.5	95	0.00
29 T	Chloroform	2.025	2.190	-8.1	112	0.00
30 T	Cyclohexane	1.111	1.185	-6.7	107	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.376	-2.0	106	0.00
32 T	1,1,1-Trichloroethane	1.938	2.095	-8.1	108	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.636	0.732	-15.1	112	0.00
35 T	Carbon Tetrachloride	0.628	0.763	-21.5	109	0.00
36 T	Benzene	0.917	1.043	-13.7	109	0.00
37 T	1,2-Dichloroethane	0.515	0.579	-12.4	109	0.00
38 T	Trichloroethene	0.364	0.403	-10.7	105	0.00
39 T	1,2-Dichloropropane	0.322	0.357	-10.9	108	0.00
40 T	1,4-Dioxane	0.162	0.168	-3.7	106	0.00
41 T	Tetrahydrofuran	0.346	0.411	-18.8	109	0.00
42 T	Bromodichloromethane	0.691	0.806	-16.6	109	0.00
43	Methyl Methacrylate	0.341	0.376	-10.3	103	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.729	-16.5	110	0.00
45 T	t-1,3-Dichloropropene	0.319	0.355	-11.3	97	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.488	-16.5	101	0.00
47 T	1,1,2-Trichloroethane	0.341	0.396	-16.1	110	0.00
48 T	Dibromochloromethane	0.526	0.633	-20.3	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041944.D
 Acq On : 27 Jan 2025 10:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 28 02:32:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	0.432	0.522	-20.8	105	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.989	-13.9	110	0.00
51 T	2-Hexanone	0.667	0.769	-15.3	109	0.00
52 T	Tetrachloroethene	0.318	0.331	-4.1	105	0.00
53 T	Toluene	0.999	1.144	-14.5	105	0.00
54 T	1,2-Dibromoethane	0.469	0.540	-15.1	110	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.581	-16.4	110	0.00
57 T	Chlorobenzene	0.922	1.034	-12.1	111	0.00
58 T	Ethyl Benzene	1.563	1.798	-15.0	106	0.00
59 T	m/p-Xylene	1.253	1.467	-17.1	109	0.00
60 T	o-Xylene	1.243	1.470	-18.3	109	0.00
61 T	Styrene	0.558	0.661	-18.5	103	0.00
62	Isopropylbenzene	1.924	2.212	-15.0	109	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.931	-17.1	113	0.00
64	n-propylbenzene	0.486	0.575	-18.3	112	0.00
65	tert-Butylbenzene	1.753	2.011	-14.7	109	0.00
66 T	Benzyl Chloride	0.109	0.116	-6.4	92	0.00
67	sec-Butylbenzene	2.414	2.763	-14.5	109	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.797	-1.1	93	0.00
69	p-Isopropyltoluene	1.988	2.299	-15.6	109	0.00
70	n-Butylbenzene	1.972	2.257	-14.5	108	0.00
71	2-Chlorotoluene	1.423	1.629	-14.5	107	0.00
72 T	4-Ethyltoluene	1.487	1.755	-18.0	109	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.516	-15.5	109	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.634	-14.9	111	0.00
75 T	1,3-Dichlorobenzene	0.843	0.940	-11.5	110	0.00
76 T	1,4-Dichlorobenzene	0.825	0.925	-12.1	110	0.00
77 T	1,2-Dichlorobenzene	0.835	0.932	-11.6	112	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.653	4.8	102	0.00
79 T	Naphthalene	1.432	1.459	-1.9	106	0.00
80 T	Naphthalene,2-methyl-	0.679	0.473	30.3#	93	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.664	5.0	101	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	142661	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	386765	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	337301	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	257049	9.675	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

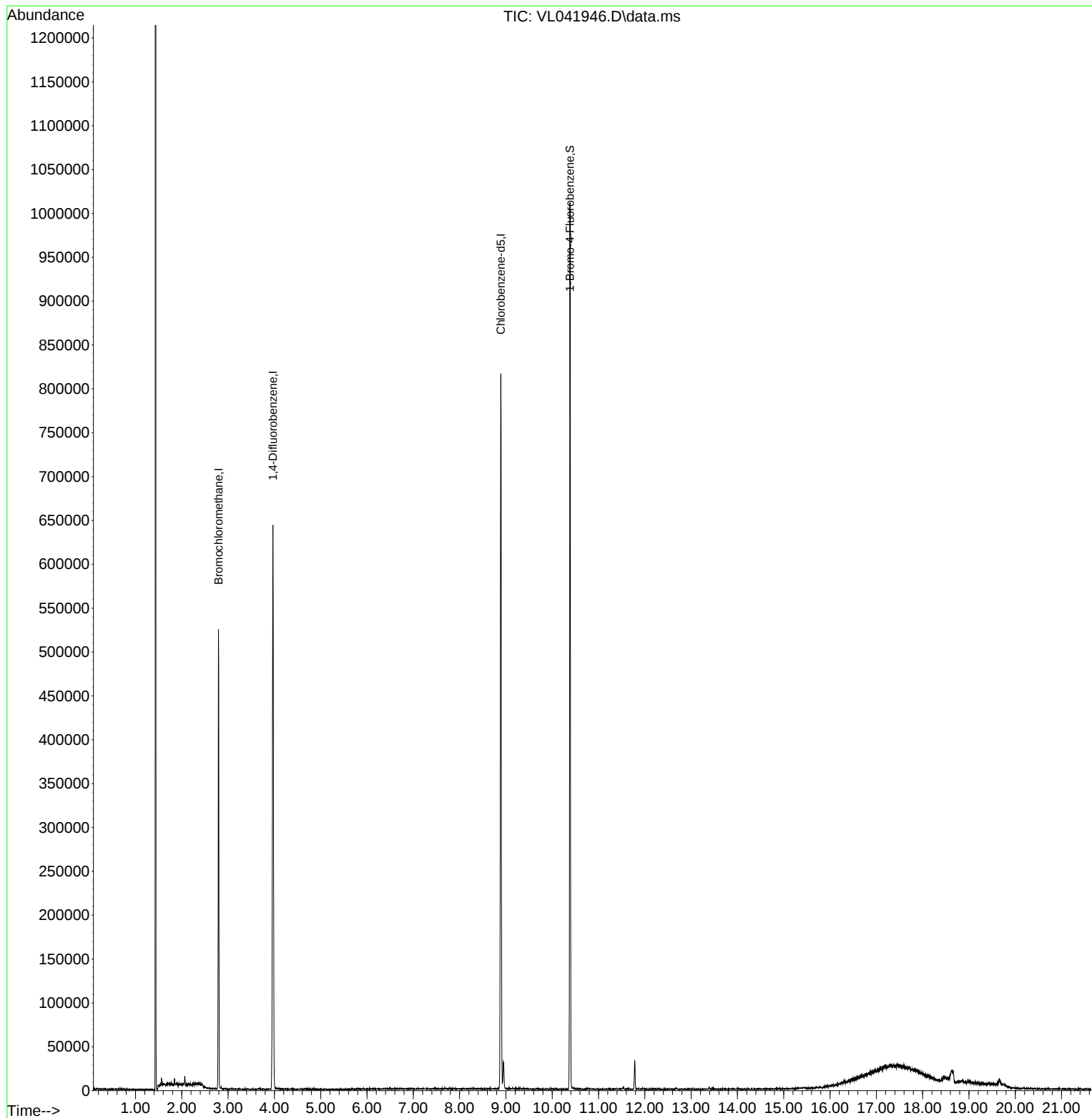
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041946.D
Acq On : 27 Jan 2025 11:17
Operator : SY/MD
Sample : VL0127ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL02

Quant Time: Jan 28 02:34:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041947.D
 Acq On : 27 Jan 2025 12:19
 Operator : SY/MD
 Sample : VL0127ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0127ABS01

Quant Time: Jan 28 02:34:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/30/2025
 Supervised By : Mahesh Dadoda 01/30/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	143025	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	399567	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348759	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	276515	10.066	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.502	85	206901	10.620	ppbv	99
3) Chlorodifluoromethane	1.480	51	214338	10.502	ppbv	99
4) Chloromethane	1.538	50	76820	10.485	ppbv	96
5) Vinyl Chloride	1.583	62	76382	10.292	ppbv	97
6) Bromomethane	1.671	94	35162	9.941	ppbv	96
7) Chloroethane	1.709	64	30210	10.463	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	172692	10.143	ppbv	100
9) Propene	1.486	41	86511	10.290	ppbv	97
10) Heptane	4.998	43	253457	11.279	ppbv	98
11) Trichlorofluoromethane	1.884	101	197641	9.753	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	156498	9.853	ppbv	98
13) Ethanol	1.729	45	4346	7.057	ppbv	90
14) Bromoethene	1.787	108	57049	9.810	ppbv	99
15) Acetone	1.842	43	158965	9.254	ppbv	99
16) 1,3-Butadiene	1.612	39	83092	10.777	ppbv	97
17) tert-Butyl alcohol	2.049	59	194278	9.189	ppbv	98
18) 1,1-Dichloroethene	2.040	96	69693	9.736	ppbv	96
19) Isopropyl Alcohol	1.894	45	92836	9.115	ppbv	94
20) Methylene Chloride	2.069	84	60388	8.895	ppbv	95
21) Allyl Chloride	2.104	41	116571	9.800	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	81007	10.027	ppbv	97
23) Vinyl Acetate	2.470	43	79222	9.304	ppbv #	96
24) 1,1-Dichloroethane	2.418	63	162663	10.409	ppbv	99
25) Ethyl Acetate	2.849	43	513887	11.094	ppbv	99
26) Hexane	2.836	57	200961	10.969	ppbv	95
27) Carbon Disulfide	2.156	76	192704	10.629	ppbv	99
28) Methyl tert-Butyl Ether	2.451	73	124946	8.923	ppbv	99
29) Chloroform	2.858	83	315137	10.881	ppbv	97
30) Cyclohexane	3.872	84	171665	10.802	ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	198570	10.293	ppbv	92
32) 1,1,1-Trichloroethane	3.380	97	299609	10.811	ppbv	99
34) 2-Butanone	2.567	43	290154	11.419	ppbv	99
35) Carbon Tetrachloride	3.778	117	308983	12.311	ppbv	98
36) Benzene	3.671	78	414621	11.314	ppbv	99
37) 1,2-Dichloroethane	3.231	62	230482	11.198	ppbv	99
38) Trichloroethene	4.567	130	164755	11.329	ppbv	95
39) 1,2-Dichloropropane	4.334	63	143940	11.197	ppbv	97
40) 1,4-Dioxane	4.606	88	69223	10.663	ppbv #	97
41) Tetrahydrofuran	3.069	42	160711	11.637	ppbv	99
42) Bromodichloromethane	4.509	83	328091	11.889	ppbv	95
43) Methyl Methacrylate	4.901	69	156642	11.506	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	691648	11.668	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	146256	11.477	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041947.D
 Acq On : 27 Jan 2025 12:19
 Operator : SY/MD
 Sample : VL0127ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0127ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025
 Supervised By :Mahesh Dadoda 01/30/2025

Quant Time: Jan 28 02:34:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	197114	11.781	ppbv	100
47) 1,1,2-Trichloroethane	6.607	97	162420	11.921	ppbv	96
48) Dibromochloromethane	7.406	129	248197	11.806	ppbv	99
49) Bromoform	9.497	173	205170	11.881	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	396687	11.436	ppbv	100
51) 2-Hexanone	7.461	43	320223	12.014	ppbv #	97
52) Tetrachloroethene	8.238	164	137187	10.796	ppbv	95
53) Toluene	6.953	91	467674	11.715	ppbv	100
54) 1,2-Dibromoethane	7.671	107	215083	11.483	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.940	131	206531	11.870	ppbv	100
57) Chlorobenzene	8.937	112	373904	11.623	ppbv	97
58) Ethyl Benzene	9.371	91	647487	11.880	ppbv	96
59) m/p-Xylene	9.545	91	1065769m	24.395	ppbv	
60) o-Xylene	9.979	91	529149	12.203	ppbv	99
61) Styrene	9.885	104	243068	12.495	ppbv	99
62) Isopropylbenzene	10.552	105	793281	11.822	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	323789	11.685	ppbv	99
64) n-propylbenzene	11.002	120	206392	12.173	ppbv	99
65) tert-Butylbenzene	11.542	119	702412	11.487	ppbv	99
66) Benzyl Chloride	11.627	91	39829	10.523	ppbv	99
67) sec-Butylbenzene	11.779	105	980787	11.648	ppbv	100
69) p-Isopropyltoluene	11.937	119	813693	11.735	ppbv	100
70) n-Butylbenzene	12.293	91	802930	11.677	ppbv	99
71) 2-Chlorotoluene	10.914	91	587822	11.843	ppbv	100
72) 4-Ethyltoluene	11.138	105	644084	12.417	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	543491	11.865	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	591073	11.915	ppbv	95
75) 1,3-Dichlorobenzene	11.620	146	342442	11.649	ppbv	99
76) 1,4-Dichlorobenzene	11.682	146	338784	11.780	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	327583	11.244	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	217546	9.098	ppbv	99
79) Naphthalene	13.526	128	498588	9.982	ppbv	99
80) Naphthalene,2-methyl-	14.472	142	203477	8.593	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	220567	9.047	ppbv	99

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

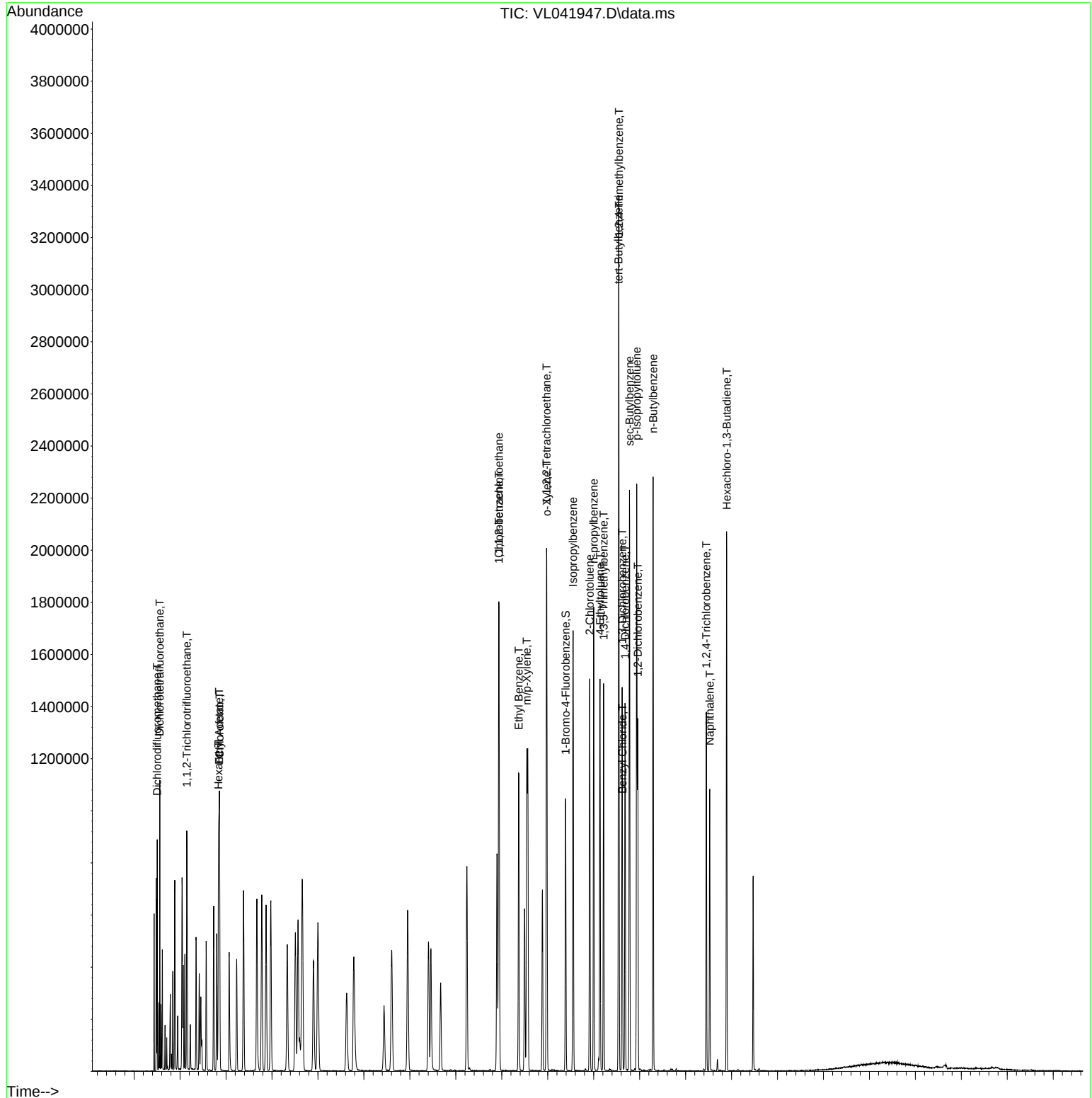
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041947.D
Acq On : 27 Jan 2025 12:19
Operator : SY/MD
Sample : VL0127ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/30/2025
Supervised By :Mahesh Dadoda 01/30/2025

Quant Time: Jan 28 02:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041954.D
 Acq On : 27 Jan 2025 16:11
 Operator : SY/MD
 Sample : QC012125 CAN 10268
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	136962	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	367356	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	317099	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	238739	9.559	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%

Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
Data File : VL041954.D
Acq On : 27 Jan 2025 16:11
Operator : SY/MD
Sample : QC012125 CAN 10268
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012125 CAN 10268

Quant Time: Jan 28 02:39:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

