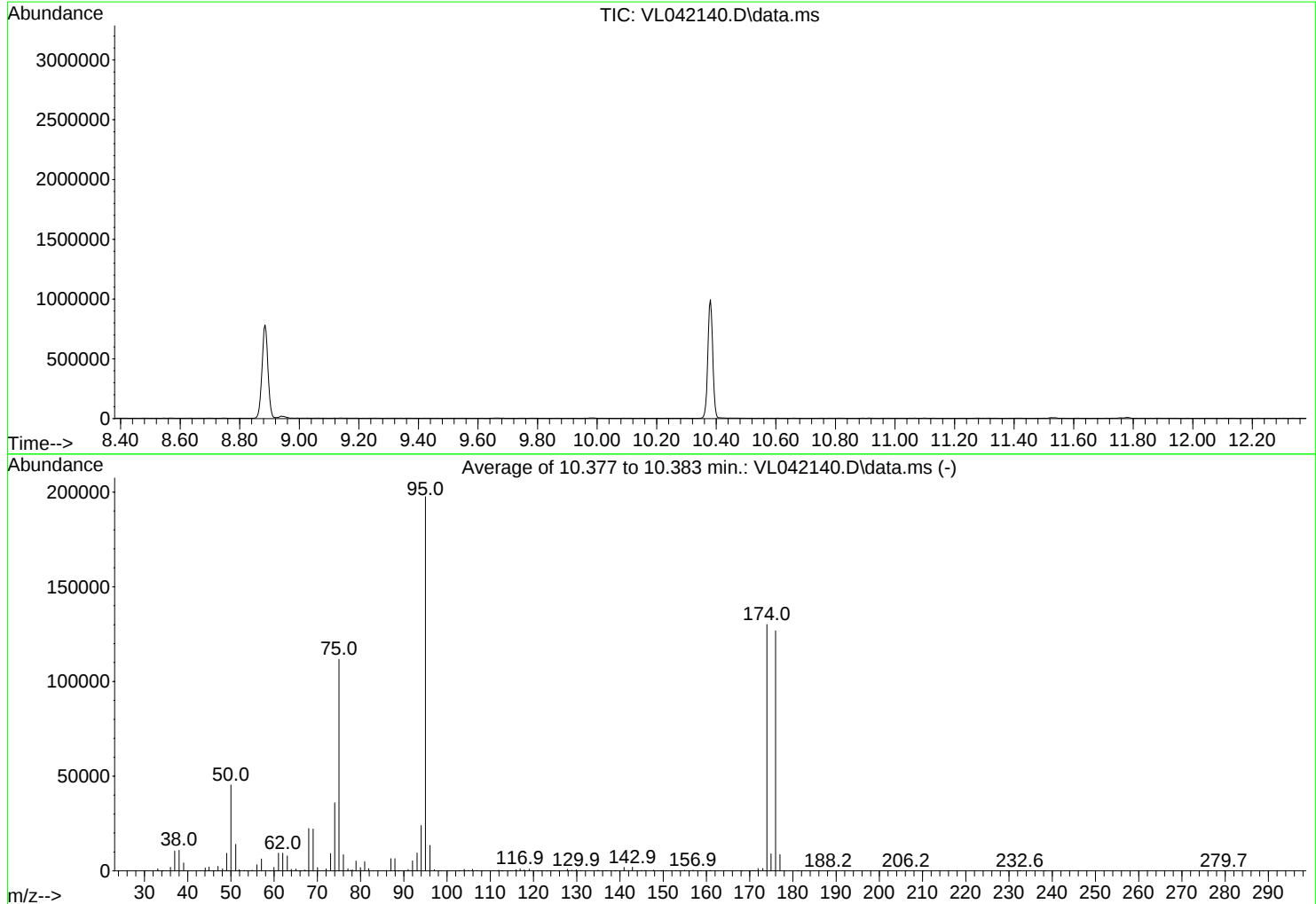


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042140.D
Acq On : 14 Mar 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



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

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.9	45333	PASS
75	95	30	66	56.5	111685	PASS
95	95	100	100	100.0	197589	PASS
96	95	5	9	6.8	13388	PASS
173	174	0.00	2	1.0	1315	PASS
174	95	50	120	65.9	130120	PASS
175	174	4	9	6.9	8967	PASS
176	174	93	101	97.4	126715	PASS
177	176	5	9	6.8	8618	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 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 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	175939	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.959	114	420429	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	358414	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 293332 10.638 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	191974	10.493	ppbv	100
3) Chlorodifluoromethane	1.476	51	228149	8.922	ppbv	100
4) Chloromethane	1.532	50	72618	10.733	ppbv	97
5) Vinyl Chloride	1.580	62	70955	11.087	ppbv	96
6) Bromomethane	1.667	94	34387	11.284	ppbv	97
7) Chloroethane	1.703	64	27399	10.537	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	161623	10.746	ppbv	98
9) Propene	1.483	41	95933	9.209	ppbv	98
10) Heptane	4.979	43	269945	8.323	ppbv	98
11) Trichlorofluoromethane	1.875	101	202929	11.070	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	150319	10.280	ppbv	96
13) Ethanol	1.719	45	5940	8.982	ppbv	91
14) Bromoethene	1.781	108	55223	10.694	ppbv	99
15) Acetone	1.836	43	157921	10.164	ppbv	98
16) 1,3-Butadiene	1.609	39	76015	10.513	ppbv	99
17) tert-Butyl alcohol	2.040	59	177586	9.136	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64716	9.795	ppbv	92
19) Isopropyl Alcohol	1.884	45	90039	10.088	ppbv	96
20) Methylene Chloride	2.059	84	64336	10.947	ppbv	97
21) Allyl Chloride	2.095	41	113949	10.150	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	80485	10.449	ppbv	90
23) Vinyl Acetate	2.460	43	94433	8.644	ppbv	99
24) 1,1-Dichloroethane	2.409	63	154561	10.784	ppbv	99
25) Ethyl Acetate	2.836	43	552236	8.880	ppbv	99
26) Hexane	2.823	57	224625	8.934	ppbv	98
27) Carbon Disulfide	2.150	76	186073	10.918	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	106326	8.494	ppbv	99
29) Chloroform	2.849	83	296552	8.764	ppbv	99
30) Cyclohexane	3.855	84	163459	8.010	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	193004	8.109	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	268630	8.184	ppbv	95
34) 2-Butanone	2.558	43	305355	9.323	ppbv	96
35) Carbon Tetrachloride	3.762	117	279849	9.653	ppbv	99
36) Benzene	3.655	78	399974	9.088	ppbv	95
37) 1,2-Dichloroethane	3.218	62	217321	8.906	ppbv	100
38) Trichloroethene	4.548	130	152158	8.466	ppbv	96
39) 1,2-Dichloropropane	4.315	63	150906	9.033	ppbv	96
40) 1,4-Dioxane	4.580	88	67340	8.830	ppbv #	99
41) Tetrahydrofuran	3.056	42	174452	9.014	ppbv	98
42) Bromodichloromethane	4.487	83	307764	9.361	ppbv	93
43) Methyl Methacrylate	4.881	69	145265	8.451	ppbv	96
44) 2,2,4-Trimethylpentane	4.635	57	717940	9.243	ppbv	98
45) t-1,3-Dichloropropene	6.412	75	135149	7.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 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 03/17/2025
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

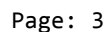
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	183303	8.295	ppbv	98
47) 1,1,2-Trichloroethane	6.581	97	154904	9.134	ppbv	96
48) Dibromochloromethane	7.387	129	239456	9.015	ppbv	98
49) Bromoform	9.484	173	213827	9.270	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	408504	9.644	ppbv	96
51) 2-Hexanone	7.438	43	316988	10.872	ppbv #	98
52) Tetrachloroethene	8.225	164	129959	8.625	ppbv	98
53) Toluene	6.933	91	423735	8.614	ppbv	98
54) 1,2-Dibromoethane	7.652	107	201881	8.805	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.924	131	192287	9.492	ppbv	100
57) Chlorobenzene	8.921	112	344848	9.280	ppbv	99
58) Ethyl Benzene	9.354	91	572580	8.675	ppbv	100
59) m/p-Xylene	9.552	91	960961m	18.294	ppbv	
60) o-Xylene	9.963	91	485048	9.185	ppbv	99
61) Styrene	9.872	104	211885	8.535	ppbv	99
62) Isopropylbenzene	10.539	105	718498	9.085	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	341487	9.820	ppbv	100
64) n-propylbenzene	10.989	120	196285	9.462	ppbv	100
65) tert-Butylbenzene	11.533	119	655886	9.113	ppbv	98
66) Benzyl Chloride	11.617	91	45818	8.342	ppbv	97
67) sec-Butylbenzene	11.769	105	924266	8.979	ppbv	98
69) p-Isopropyltoluene	11.928	119	753153	9.197	ppbv	99
70) n-Butylbenzene	12.280	91	771737	9.232	ppbv	100
71) 2-Chlorotoluene	10.902	91	537863	8.822	ppbv	100
72) 4-Ethyltoluene	11.125	105	585082	9.074	ppbv	99
73) 1,3,5-Trimethylbenzene	11.203	105	494157	8.836	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	560827	8.905	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	336601	9.287	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	327927	9.113	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	330229	9.389	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	230108	8.408	ppbv	99
79) Naphthalene	13.514	128	481899	11.160	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	151227	12.797	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	219258	9.111	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Mar 14 23:16:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL02252SAIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	109	-0.02
2 T	Dichlorodifluoromethane	1.040	1.091	-4.9	126	0.00
3	Chlorodifluoromethane	1.453	1.297	10.7	108	0.00
4	Chloromethane	0.385	0.413	-7.3	131	0.00
5 T	Vinyl Chloride	0.364	0.403	-10.7	131	0.00
6 T	Bromomethane	0.173	0.195	-12.7	133	0.00
7	Chloroethane	0.148	0.156	-5.4	126	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.919	-7.5	129	0.00
9 T	Propene	0.592	0.545	7.9	114	0.00
10 T	Heptane	1.844	1.534	16.8	101	-0.03
11 T	Trichlorofluoromethane	1.042	1.153	-10.7	133	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.854	-2.8	134	0.00
13	Ethanol	0.038	0.034#	10.5	187#	0.00
14 T	Bromoethene	0.293	0.314	-7.2	130	0.00
15 T	Acetone	0.883	0.898	-1.7	137	0.00
16 T	1,3-Butadiene	0.411	0.432	-5.1	132	0.00
17	tert-Butyl alcohol	1.105	1.009	8.7	116	0.00
18 T	1,1-Dichloroethene	0.376	0.368	2.1	126	0.00
19 T	Isopropyl Alcohol	0.507	0.512	-1.0	133	0.00
20 T	Methylene Chloride	0.334	0.366	-9.6	153#	0.00
21 T	Allyl Chloride	0.638	0.648	-1.6	131	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.457	-4.3	140	0.00
23 T	Vinyl Acetate	0.621	0.537	13.5	113	-0.01
24 T	1,1-Dichloroethane	0.815	0.878	-7.7	143	0.00
25 T	Ethyl Acetate	3.535	3.139	11.2	108	-0.02
26 T	Hexane	1.429	1.277	10.6	109	-0.02
27 T	Carbon Disulfide	0.969	1.058	-9.2	135	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.604	15.0	126	-0.01
29 T	Chloroform	1.923	1.686	12.3	107	-0.01
30 T	Cyclohexane	1.160	0.929	19.9	94	-0.02
31 T	cis-1,2-Dichloroethene	1.353	1.097	18.9	97	-0.01
32 T	1,1,1-Trichloroethane	1.866	1.527	18.2	94	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
34 T	2-Butanone	0.779	0.726	6.8	104	-0.01
35 T	Carbon Tetrachloride	0.690	0.666	3.5	101	-0.02
36 T	Benzene	1.047	0.951	9.2	98	-0.02
37 T	1,2-Dichloroethane	0.580	0.517	10.9	99	-0.02
38 T	Trichloroethene	0.427	0.362	15.2	95	-0.02
39 T	1,2-Dichloropropane	0.397	0.359	9.6	100	-0.02
40 T	1,4-Dioxane	0.181	0.160	11.6	97	-0.03
41 T	Tetrahydrofuran	0.460	0.415	9.8	99	-0.02
42 T	Bromodichloromethane	0.782	0.732	6.4	99	-0.03
43	Methyl Methacrylate	0.409	0.346	15.4	88	-0.03
44 T	2,2,4-Trimethylpentane	1.848	1.708	7.6	102	-0.03
45 T	t-1,3-Dichloropropene	0.406	0.321	20.9	81	-0.03
46 T	cis-1,3-Dichloropropene	0.526	0.436	17.1	84	-0.03
47 T	1,1,2-Trichloroethane	0.403	0.368	8.7	102	-0.03
48 T	Dibromochloromethane	0.632	0.570	9.8	95	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.509	7.3	96	-0.02
50 T	4-Methyl-2-Pentanone	1.008	0.972	3.6	95	-0.03
51 T	2-Hexanone	0.693	0.754	-8.8	90	-0.03
52 T	Tetrachloroethene	0.358	0.309	13.7	94	-0.02
53 T	Toluene	1.170	1.008	13.8	92	-0.03
54 T	1,2-Dibromoethane	0.545	0.480	11.9	95	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	96	-0.02
56	1,1,1,2-Tetrachloroethane	0.565	0.536	5.1	102	-0.02
57 T	Chlorobenzene	1.037	0.962	7.2	101	-0.02
58 T	Ethyl Benzene	1.842	1.598	13.2	90	-0.02
59 T	m/p-Xylene	1.466	1.341	8.5	97	0.00
60 T	o-Xylene	1.473	1.353	8.1	98	-0.02
61 T	Styrene	0.693	0.591	14.7	86	-0.02
62	Isopropylbenzene	2.207	2.005	9.2	98	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.970	0.953	1.8	108	-0.02
64	n-propylbenzene	0.579	0.548	5.4	100	-0.02
65	tert-Butylbenzene	2.008	1.830	8.9	101	-0.01
66 T	Benzyl Chloride	0.153	0.128	16.3	80	-0.01
67	sec-Butylbenzene	2.872	2.579	10.2	100	-0.01
68 S	1-Bromo-4-Fluorobenzene	0.769	0.818	-6.4	103	-0.02
69	p-Isopropyltoluene	2.285	2.101	8.1	100	-0.01
70	n-Butylbenzene	2.332	2.153	7.7	100	-0.02
71	2-Chlorotoluene	1.701	1.501	11.8	95	-0.02
72 T	4-Ethyltoluene	1.799	1.632	9.3	96	-0.02
73 T	1,3,5-Trimethylbenzene	1.560	1.379	11.6	96	-0.02
74 T	1,2,4-Trimethylbenzene	1.757	1.565	10.9	102	-0.02
75 T	1,3-Dichlorobenzene	1.011	0.939	7.1	104	-0.02
76 T	1,4-Dichlorobenzene	1.004	0.915	8.9	102	-0.01
77 T	1,2-Dichlorobenzene	0.981	0.921	6.1	106	-0.02
78 T	Hexachloro-1,3-Butadiene	0.764	0.642	16.0	97	-0.01
79 T	Naphthalene	1.205	1.345	-11.6	94	-0.01
80 T	Naphthalene,2-methyl-	0.330	0.422	-27.9	72	-0.01
81 T	1,2,4-Trichlorobenzene	0.671	0.612	8.8	91	-0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	109	-0.02
2 T	Dichlorodifluoromethane	1.040	1.091	-4.9	126	0.00
3	Chlorodifluoromethane	1.453	1.297	10.7	108	0.00
4	Chloromethane	0.385	0.413	-7.3	131	0.00
5 T	Vinyl Chloride	0.364	0.403	-10.7	131	0.00
6 T	Bromomethane	0.173	0.195	-12.7	133	0.00
7	Chloroethane	0.148	0.156	-5.4	126	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.919	-7.5	129	0.00
9 T	Propene	0.592	0.545	7.9	114	0.00
10 T	Heptane	1.844	1.534	16.8	101	-0.03
11 T	Trichlorofluoromethane	1.042	1.153	-10.7	133	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.854	-2.8	134	0.00
13	Ethanol	0.038	0.034#	10.5	187#	0.00
14 T	Bromoethene	0.293	0.314	-7.2	130	0.00
15 T	Acetone	0.883	0.898	-1.7	137	0.00
16 T	1,3-Butadiene	0.411	0.432	-5.1	132	0.00
17	tert-Butyl alcohol	1.105	1.009	8.7	116	0.00
18 T	1,1-Dichloroethene	0.376	0.368	2.1	126	0.00
19 T	Isopropyl Alcohol	0.507	0.512	-1.0	133	0.00
20 T	Methylene Chloride	0.334	0.366	-9.6	153#	0.00
21 T	Allyl Chloride	0.638	0.648	-1.6	131	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.457	-4.3	140	0.00
23 T	Vinyl Acetate	0.621	0.537	13.5	113	-0.01
24 T	1,1-Dichloroethane	0.815	0.878	-7.7	143	0.00
25 T	Ethyl Acetate	3.535	3.139	11.2	108	-0.02
26 T	Hexane	1.429	1.277	10.6	109	-0.02
27 T	Carbon Disulfide	0.969	1.058	-9.2	135	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.604	15.0	126	-0.01
29 T	Chloroform	1.923	1.686	12.3	107	-0.01
30 T	Cyclohexane	1.160	0.929	19.9	94	-0.02
31 T	cis-1,2-Dichloroethene	1.353	1.097	18.9	97	-0.01
32 T	1,1,1-Trichloroethane	1.866	1.527	18.2	94	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
34 T	2-Butanone	0.779	0.726	6.8	104	-0.01
35 T	Carbon Tetrachloride	0.690	0.666	3.5	101	-0.02
36 T	Benzene	1.047	0.951	9.2	98	-0.02
37 T	1,2-Dichloroethane	0.580	0.517	10.9	99	-0.02
38 T	Trichloroethene	0.427	0.362	15.2	95	-0.02
39 T	1,2-Dichloropropane	0.397	0.359	9.6	100	-0.02
40 T	1,4-Dioxane	0.181	0.160	11.6	97	-0.03
41 T	Tetrahydrofuran	0.460	0.415	9.8	99	-0.02
42 T	Bromodichloromethane	0.782	0.732	6.4	99	-0.03
43	Methyl Methacrylate	0.409	0.346	15.4	88	-0.03
44 T	2,2,4-Trimethylpentane	1.848	1.708	7.6	102	-0.03
45 T	t-1,3-Dichloropropene	0.406	0.321	20.9	81	-0.03
46 T	cis-1,3-Dichloropropene	0.526	0.436	17.1	84	-0.03
47 T	1,1,2-Trichloroethane	0.403	0.368	8.7	102	-0.03
48 T	Dibromochloromethane	0.632	0.570	9.8	95	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.509	7.3	96	-0.02
50 T	4-Methyl-2-Pentanone	1.008	0.972	3.6	95	-0.03
51 T	2-Hexanone	0.693	0.754	-8.8	90	-0.03
52 T	Tetrachloroethene	0.358	0.309	13.7	94	-0.02
53 T	Toluene	1.170	1.008	13.8	92	-0.03
54 T	1,2-Dibromoethane	0.545	0.480	11.9	95	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	96	-0.02
56	1,1,1,2-Tetrachloroethane	0.565	0.536	5.1	102	-0.02
57 T	Chlorobenzene	1.037	0.962	7.2	101	-0.02
58 T	Ethyl Benzene	1.842	1.598	13.2	90	-0.02
59 T	m/p-Xylene	1.466	1.341	8.5	97	0.00
60 T	o-Xylene	1.473	1.353	8.1	98	-0.02
61 T	Styrene	0.693	0.591	14.7	86	-0.02
62	Isopropylbenzene	2.207	2.005	9.2	98	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.970	0.953	1.8	108	-0.02
64	n-propylbenzene	0.579	0.548	5.4	100	-0.02
65	tert-Butylbenzene	2.008	1.830	8.9	101	-0.01
66 T	Benzyl Chloride	0.153	0.128	16.3	80	-0.01
67	sec-Butylbenzene	2.872	2.579	10.2	100	-0.01
68 S	1-Bromo-4-Fluorobenzene	0.769	0.818	-6.4	103	-0.02
69	p-Isopropyltoluene	2.285	2.101	8.1	100	-0.01
70	n-Butylbenzene	2.332	2.153	7.7	100	-0.02
71	2-Chlorotoluene	1.701	1.501	11.8	95	-0.02
72 T	4-Ethyltoluene	1.799	1.632	9.3	96	-0.02
73 T	1,3,5-Trimethylbenzene	1.560	1.379	11.6	96	-0.02
74 T	1,2,4-Trimethylbenzene	1.757	1.565	10.9	102	-0.02
75 T	1,3-Dichlorobenzene	1.011	0.939	7.1	104	-0.02
76 T	1,4-Dichlorobenzene	1.004	0.915	8.9	102	-0.01
77 T	1,2-Dichlorobenzene	0.981	0.921	6.1	106	-0.02
78 T	Hexachloro-1,3-Butadiene	0.764	0.642	16.0	97	-0.01
79 T	Naphthalene	1.205	1.345	-11.6	94	-0.01
80 T	Naphthalene,2-methyl-	0.330	0.422	-27.9	72	-0.01
81 T	1,2,4-Trichlorobenzene	0.671	0.612	8.8	91	-0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042142.D
 Acq On : 14 Mar 2025 09:23
 Operator : SY/MD
 Sample : VL0314ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	167826	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	392046	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	329113	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250856	9.907	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

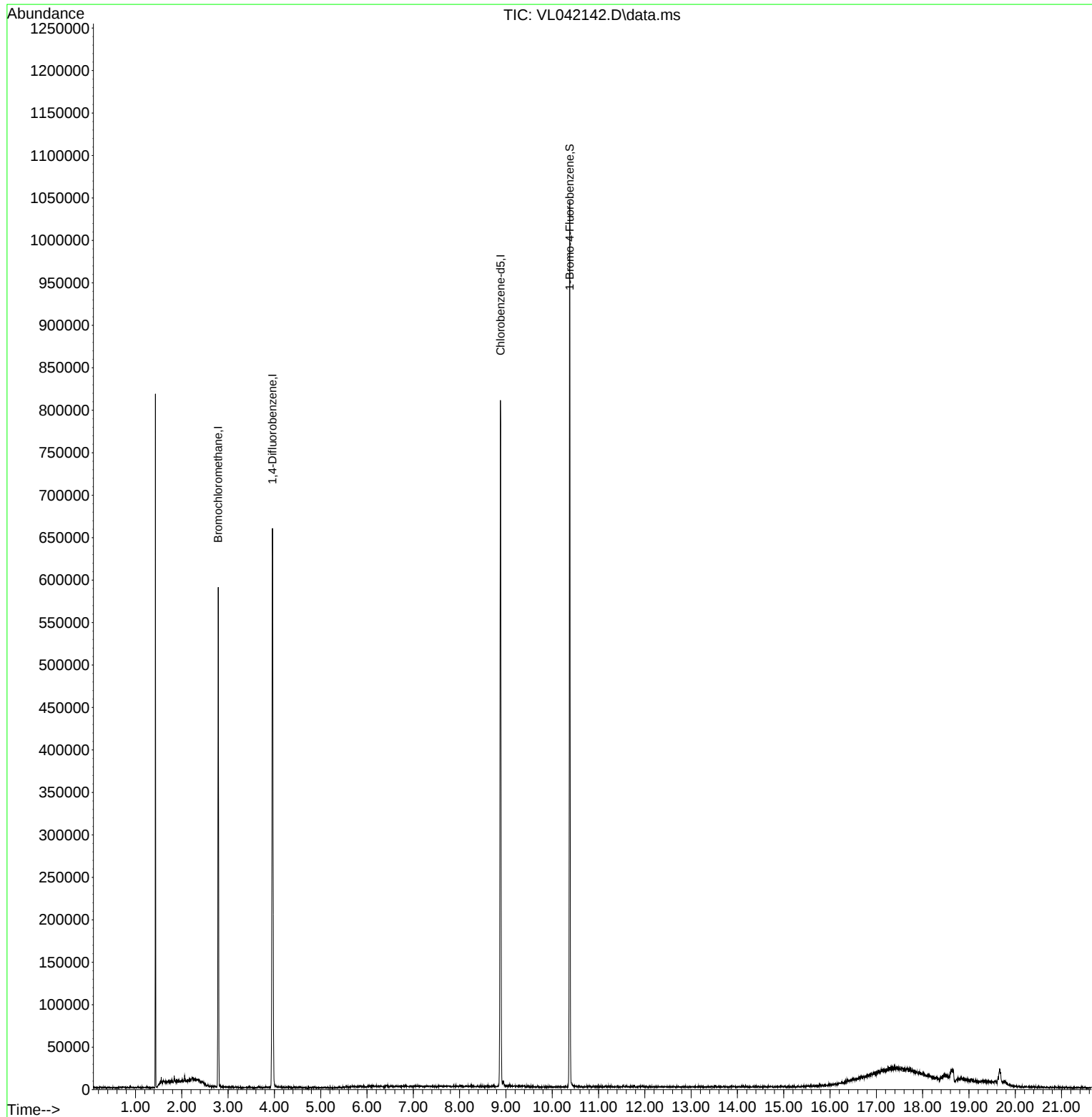
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042143.D
 Acq On : 14 Mar 2025 10:09
 Operator : SY/MD
 Sample : QC031025 CAN 10267
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165110	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	377773	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	315162	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	245153	10.111	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

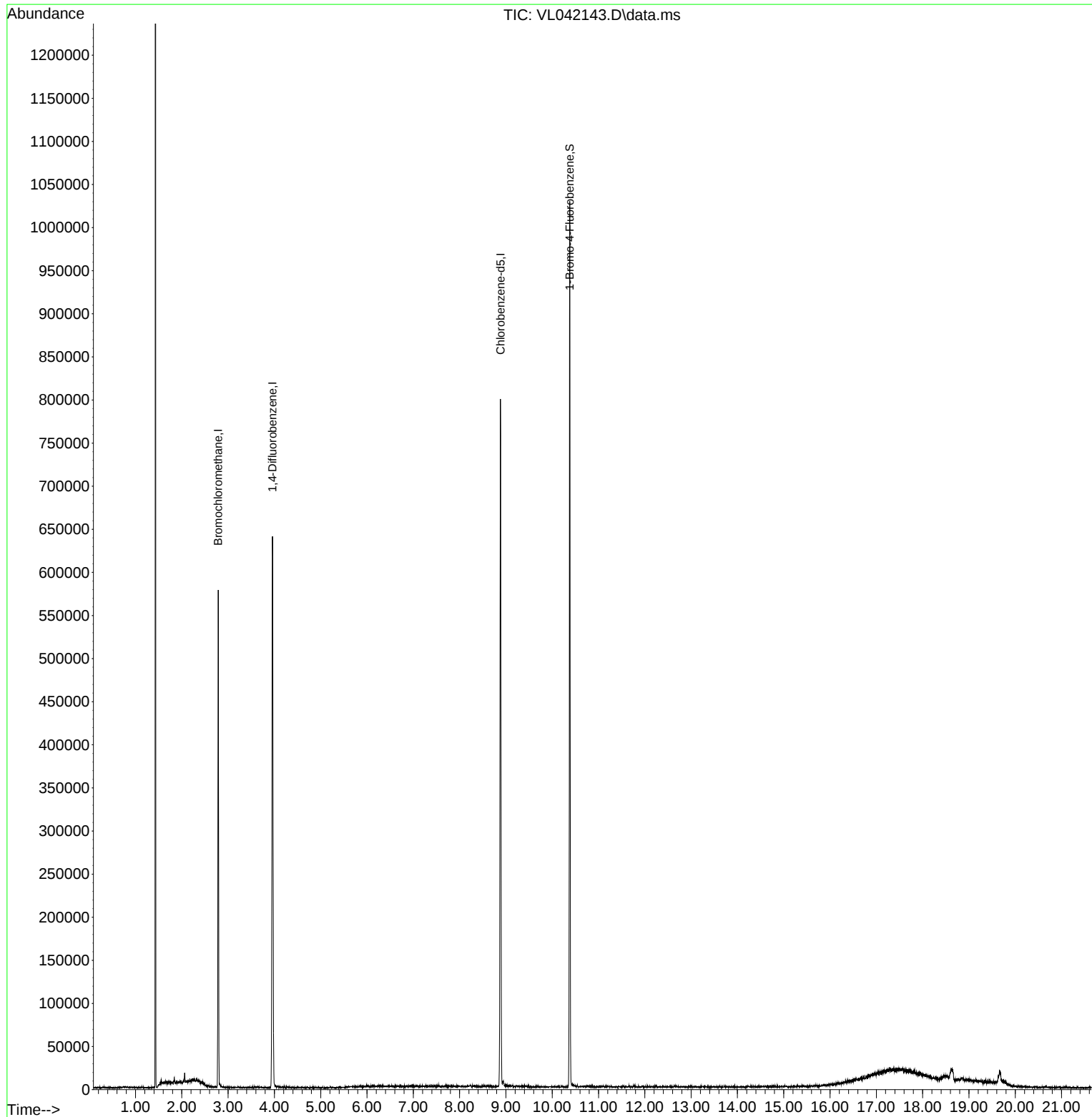
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042146.D
 Acq On : 14 Mar 2025 12:27
 Operator : SY/MD
 Sample : VL0314ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	163026	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	381842	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.885	117	325786	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 276407 11.028 ppbv -0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 110.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	183411	10.819	ppbv	99
3) Chlorodifluoromethane	1.476	51	224569	9.478	ppbv	99
4) Chloromethane	1.534	50	72105	11.502	ppbv	95
5) Vinyl Chloride	1.580	62	69189	11.667	ppbv	98
6) Bromomethane	1.667	94	31681	11.220	ppbv	96
7) Chloroethane	1.706	64	27615	11.461	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	159489	11.444	ppbv	99
9) Propene	1.486	41	85053	8.811	ppbv	99
10) Heptane	4.985	43	257569	8.570	ppbv	99
11) Trichlorofluoromethane	1.877	101	201423	11.858	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	144035	10.630	ppbv	97
13) Ethanol	1.722	45	5622	9.175	ppbv	97
14) Bromoethene	1.784	108	55222	11.541	ppbv	97
15) Acetone	1.835	43	154842	10.755	ppbv	98
16) 1,3-Butadiene	1.609	39	74468	11.115	ppbv	99
17) tert-Butyl alcohol	2.042	59	168993	9.382	ppbv	96
18) 1,1-Dichloroethene	2.036	96	64700	10.568	ppbv	97
19) Isopropyl Alcohol	1.887	45	85819	10.377	ppbv #	35
20) Methylene Chloride	2.062	84	64018	11.756	ppbv	96
21) Allyl Chloride	2.098	41	110336	10.607	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	72399	10.144	ppbv	99
23) Vinyl Acetate	2.463	43	87289	8.623	ppbv #	94
24) 1,1-Dichloroethane	2.411	63	140322	10.566	ppbv	99
25) Ethyl Acetate	2.839	43	528086	9.164	ppbv	100
26) Hexane	2.826	57	215050	9.231	ppbv	98
27) Carbon Disulfide	2.153	76	170348	10.787	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	91925	7.925	ppbv	98
29) Chloroform	2.852	83	284422	9.071	ppbv	98
30) Cyclohexane	3.861	84	155818	8.240	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	180243	8.173	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	256963	8.448	ppbv	95
34) 2-Butanone	2.560	43	289331	9.726	ppbv	95
35) Carbon Tetrachloride	3.764	117	267662	10.165	ppbv	97
36) Benzene	3.661	78	376328	9.415	ppbv	99
37) 1,2-Dichloroethane	3.221	62	209658	9.460	ppbv	99
38) Trichloroethene	4.554	130	143571	8.796	ppbv	94
39) 1,2-Dichloropropane	4.318	63	142402	9.386	ppbv	97
40) 1,4-Dioxane	4.590	88	65583	9.469	ppbv #	98
41) Tetrahydrofuran	3.059	42	161433	9.184	ppbv	97
42) Bromodichloromethane	4.493	83	289116	9.682	ppbv	99
43) Methyl Methacrylate	4.884	69	133935	8.580	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	687261	9.742	ppbv	98
45) t-1,3-Dichloropropene	6.418	75	122213	7.880	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042146.D
 Acq On : 14 Mar 2025 12:27
 Operator : SY/MD
 Sample : VL0314ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2025
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	173008	8.620	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	148902	9.667	ppbv	96
48) Dibromochloromethane	7.393	129	230834	9.569	ppbv	98
49) Bromoform	9.487	173	207997	9.928	ppbv	98
50) 4-Methyl-2-Pentanone	5.761	43	388572	10.100	ppbv	95
51) 2-Hexanone	7.444	43	302871	11.438	ppbv #	97
52) Tetrachloroethene	8.228	164	123920	9.056	ppbv	98
53) Toluene	6.940	91	392631	8.789	ppbv	98
54) 1,2-Dibromoethane	7.655	107	196312	9.427	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	188895	10.258	ppbv	99
57) Chlorobenzene	8.924	112	335300	9.927	ppbv	98
58) Ethyl Benzene	9.357	91	553145	9.220	ppbv	99
59) m/p-Xylene	9.555	91	938027m	19.646	ppbv	
60) o-Xylene	9.966	91	472738	9.849	ppbv	99
61) Styrene	9.875	104	200572	8.888	ppbv	99
62) Isopropylbenzene	10.542	105	698706	9.720	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	335051	10.599	ppbv	99
64) n-propylbenzene	10.992	120	189167	10.032	ppbv	99
65) tert-Butylbenzene	11.536	119	645167	9.861	ppbv	99
66) Benzyl Chloride	11.620	91	46836	9.382	ppbv	97
67) sec-Butylbenzene	11.772	105	930077	9.940	ppbv	99
69) p-Isopropyltoluene	11.930	119	755360	10.147	ppbv	99
70) n-Butylbenzene	12.283	91	760425	10.007	ppbv	100
71) 2-Chlorotoluene	10.904	91	519669	9.378	ppbv	99
72) 4-Ethyltoluene	11.128	105	580446	9.904	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	489177	9.623	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	558174	9.751	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	329807	10.011	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	327949	10.026	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	329758	10.314	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	227664	9.152	ppbv	99
79) Naphthalene	13.516	128	477761	12.172	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	148881	13.860	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	217204	9.930	ppbv	100

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

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL031425

Review By	Semsettin Yesilyurt	Review On	3/17/2025 8:36:35 AM		
Supervise By	Maresh Dadoda	Supervise On	3/17/2025 1:46:41 PM		
SubDirectory	VL031425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2588				
Initial Calibration Stds	AP2582,AP2584,AP2585				
CCC	AP2582				
Internal Standard/PEM	AP2588				
ICV/I.BLK	AP2586				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042140.D	14 Mar 2025 07:56	SY/MD	Ok
2	VSTDCCC010	VL042141.D	14 Mar 2025 08:39	SY/MD	Ok,M
3	VL0314ABL01	VL042142.D	14 Mar 2025 09:23	SY/MD	Ok
4	QC031025 CAN 10267	VL042143.D	14 Mar 2025 10:09	SY/MD	Ok
5	QC031225 CAN 10300	VL042144.D	14 Mar 2025 10:40	SY/MD	Not Ok
6	QC031325 CAN 10266	VL042145.D	14 Mar 2025 11:11	SY/MD	Ok
7	VL0314ABS01	VL042146.D	14 Mar 2025 12:27	SY/MD	Ok,M
8	QC031225 CAN 10300	VL042147.D	14 Mar 2025 15:56	SY/MD	Ok
9	QC031225 CAN 10300	VL042148.D	14 Mar 2025 16:29	SY/MD	Not Ok

M : Manual Integration