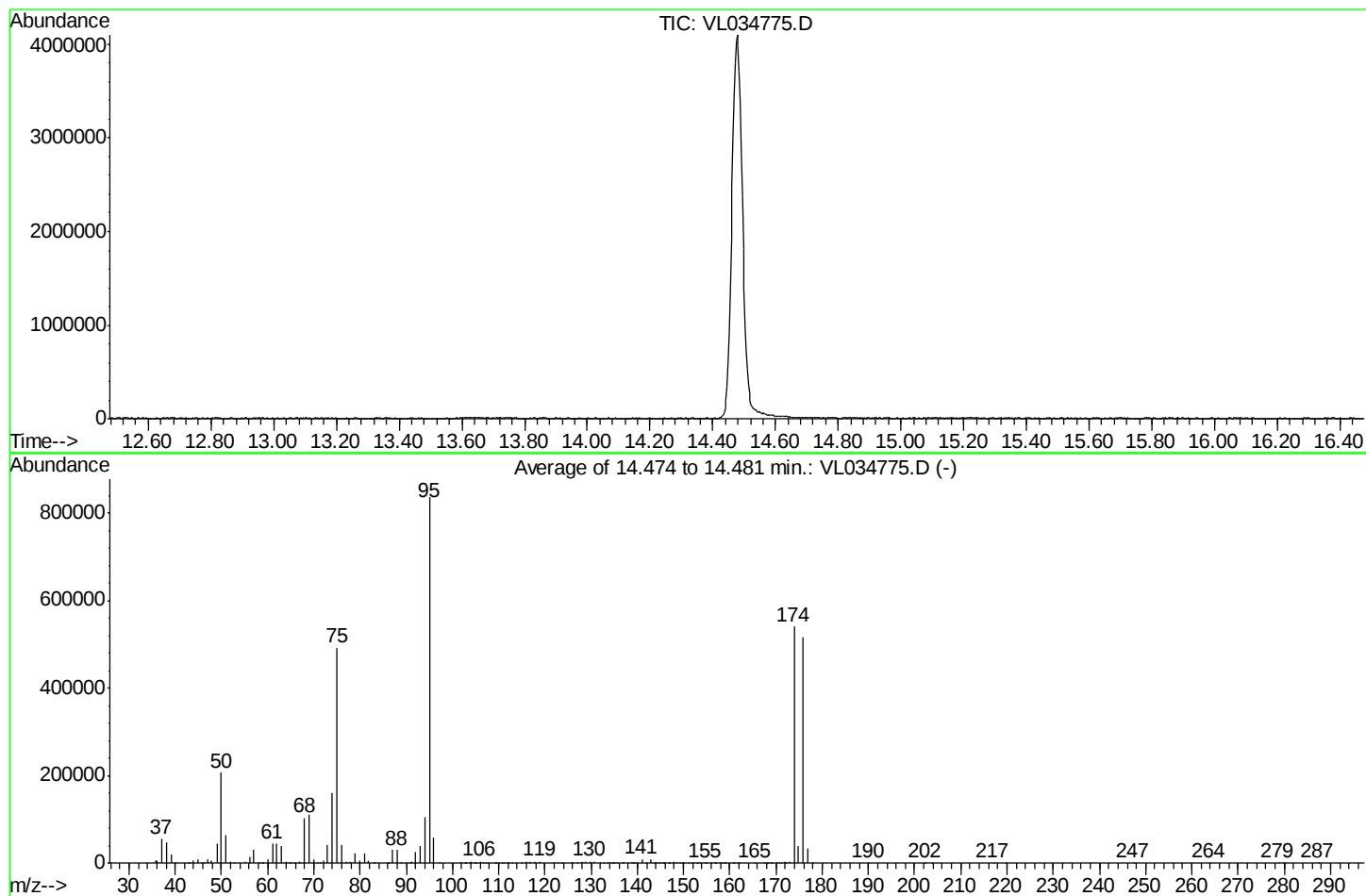


Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL030420\
 Data File : VL034775.D
 Acq On : 4 Mar 2020 00:45
 Operator : SY/AP
 Sample : BFB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Integration File: RTEINT.P

Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
 Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Mar 04 06:36:39 2020
 Last Update : Wed Mar 04 06:36:39 2020



AutoFind: Scans 3635, 3636, 3637; Background Corrected with Scan 3612

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.7	206186	PASS
75	95	30	66	58.9	492458	PASS
95	95	100	100	100.0	835413	PASS
96	95	5	9	7.1	58965	PASS
173	174	0.00	2	0.3	1601	PASS
174	95	50	120	64.6	539456	PASS
175	174	4	9	7.4	39960	PASS
176	174	93	101	95.7	516032	PASS
177	176	5	9	6.3	32320	PASS

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\

Method File : VL030420AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020

Last Update : Wed Mar 04 06:36:39 2020

Response Via : Initial Calibration

Calibration Files

0.03=VL034781.D 0.1 =VL034780.D 0.5 =VL034779.D 1 =VL034778.D 2 =VL034777.D 10 =VL034776.D 15 =VL034782.D

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...			2.107	1.923	1.891	1.215	1.023	1.632	29.42
3)	Chlorodifluoro...			1.291	1.238	1.184	1.017	0.967	1.139	12.36
4)	Chloromethane			0.664	0.649	0.660	0.560	0.536	0.614	9.90
5) T	Vinyl Chloride	0.868	0.706	0.617	0.640	0.618	0.547	0.542	0.648	17.27
6) T	Bromomethane			0.379	0.374	0.367	0.323	0.326	0.354	7.64
7)	Chloroethane			0.250	0.245	0.223	0.204	0.198	0.224	10.49
8) T	Dichlorotetra...			1.649	1.526	1.485	1.243	1.186	1.418	13.83
9) T	Propene			0.475	0.462	0.472	0.432	0.401	0.448	7.04
10) T	Heptane			1.023	1.168	1.218	1.166	1.123	1.140	6.45
11) T	Trichlorofluor...			1.633	1.606	1.535	1.266	1.262	1.460	12.53
12) T	1,1,2-Trichlor...			1.140	1.081	1.074	0.866	0.876	1.008	12.65
13)	Ethanol			0.213	0.194	0.121	0.127	0.113	0.154	30.33
14) T	Bromoethene			0.419	0.443	0.435	0.393	0.378	0.413	6.69
15) T	Acetone			1.440	1.297	1.271	0.994	0.986	1.197	16.70
16) T	1,3-Butadiene			0.557	0.560	0.572	0.522	0.498	0.542	5.68
17)	tert-Butyl alc...			1.100	1.110	0.684	0.985	0.842	0.944	19.21
18) T	1,1-Dichloroet...			0.488	0.478	0.449	0.401	0.405	0.444	9.10
19) T	Isopropyl Alcohol			0.806	0.823	0.533	0.760	0.665	0.717	16.72
20) T	Methylene Chlo...			0.508	0.479	0.438	0.352	0.358	0.427	16.43
21) T	Allyl Chloride			0.782	0.794	0.793	0.705	0.718	0.758	5.69
22) T	trans-1,2-Dich...			0.465	0.456	0.449	0.386	0.413	0.434	7.67
23) T	Vinyl Acetate			1.476	1.647	1.753	1.618	1.535	1.606	6.63
24) T	1,1-Dichloroet...			1.396	1.277	1.311	1.139	1.109	1.246	9.65
25) T	Ethyl Acetate			2.142	2.203	2.183	1.958	1.861	2.069	7.33
26) T	Hexane			0.902	0.928	0.971	0.880	0.840	0.904	5.46
27) T	Carbon Disulfide			1.012	1.053	1.129	1.022	1.065	1.056	4.39
28) T	Methyl tert-Bu...			1.361	1.447	1.424	1.309	1.187	1.346	7.73
29) T	Chloroform			1.694	1.641	1.555	1.371	1.347	1.522	10.29
30) T	Cyclohexane			0.634	0.664	0.733	0.725	0.702	0.692	6.07
31) T	cis-1,2-Dichlo...			0.930	0.943	0.954	0.925	0.885	0.927	2.84
32) T	1,1,1-Trichlor...	2.027	1.459	1.495	1.420	1.461	1.340	1.324	1.504	15.91
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone			0.624	0.692	0.710	0.623	0.604	0.651	7.23
35) T	Carbon Tetrach...	1.011	0.772	0.727	0.715	0.739	0.651	0.668	0.755	15.97
36) T	Benzene			0.850	0.871	0.923	0.825	0.803	0.855	5.43
37) T	1,2-Dichloroet...			0.642	0.596	0.594	0.537	0.549	0.584	7.21
38) T	Trichloroethene	0.435	0.314	0.307	0.327	0.330	0.310	0.309	0.333	13.81
39) T	1,2-Dichloropr...			0.354	0.361	0.353	0.329	0.326	0.345	4.69

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\
 Method File : VL030420AIR.M

40)	T	1,4-Dioxane	0.122	0.140	0.102	0.122	0.110	0.119	11.96		
41)	T	Tetrahydrofuran	0.281	0.341	0.365	0.340	0.333	0.332	9.39		
42)	T	Bromodichlorom...	0.742	0.742	0.763	0.723	0.722	0.739	2.30		
43)		Methyl Methacr...	0.309	0.341	0.395	0.380	0.385	0.362	9.90		
44)	T	2,2,4-Trimethy...	1.428	1.574	1.641	1.440	1.382	1.493	7.31		
45)	T	t-1,3-Dichloro...	0.278	0.326	0.394	0.443	0.459	0.380	20.30		
46)	T	cis-1,3-Dichlo...	0.370	0.432	0.484	0.515	0.519	0.464	13.58		
47)	T	1,1,2-Trichlor...	0.376	0.366	0.393	0.343	0.343	0.364	5.92		
48)	T	Dibromochlorom...	0.518	0.548	0.607	0.581	0.592	0.569	6.37		
49)	T	Bromoform	0.439	0.469	0.529	0.518	0.529	0.497	8.16		
50)	T	4-Methyl-2-Pen...	0.841	0.941	1.031	0.932	0.916	0.932	7.25		
51)	T	2-Hexanone	0.591	0.689	0.823	0.773	0.780	0.731	12.60		
52)	T	Tetrachloroethene	0.379	0.347	0.281	0.307	0.317	0.291	0.288	0.316	11.30
53)	T	Toluene	0.719	0.915	1.004	0.948	0.936	0.904	12.02		
54)	T	1,2-Dibromoethane	0.504	0.549	0.586	0.527	0.526	0.538	5.82		

55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.455	0.476	0.468	0.405	0.412	0.443	7.36
57)	T	Chlorobenzene			0.851	0.814	0.815	0.668	0.672	0.764	11.39
58)	T	Ethyl Benzene			1.100	1.275	1.361	1.217	1.209	1.232	7.77
59)	T	m/p-Xylene			1.046	1.131	1.173	0.994	0.990	1.067	7.69
60)	T	o-Xylene			1.051	1.184	1.167	0.993	1.001	1.079	8.42
61)	T	Styrene			0.526	0.650	0.738	0.711	0.723	0.670	13.03
62)		Isopropylbenzene			1.590	1.715	1.752	1.447	1.438	1.589	9.19
63)	T	1,1,2,2-Tetrac...	0.990	0.884	0.891	0.866	0.877	0.715	0.732	0.851	11.32
64)		n-propylbenzene			0.373	0.415	0.434	0.382	0.388	0.398	6.36
65)		tert-Butylbenzene			1.225	1.458	1.502	1.265	1.263	1.342	9.49
66)	T	Benzyl Chloride			0.331	0.362	0.423	0.509	0.544	0.434	21.11
67)		sec-Butylbenzene			1.815	2.131	2.232	1.820	1.783	1.956	10.68
68)	S	1-Bromo-4-Fluo...	0.858	0.848	0.860	0.834	0.813	0.793	0.831	0.834	2.94
69)		p-Isopropyltol...			1.417	1.694	1.798	1.510	1.497	1.583	9.94
70)		n-Butylbenzene			1.568	1.843	1.966	1.644	1.634	1.731	9.63
71)		2-Chlorotoluene			1.067	1.251	1.364	1.159	1.158	1.200	9.38
72)	T	4-Ethyltoluene			1.088	1.222	1.336	1.172	1.190	1.202	7.47
73)	T	1,3,5-Trimethy...			1.068	1.194	1.269	1.116	1.117	1.153	6.84
74)	T	1,2,4-Trimethy...			1.228	1.342	1.391	1.152	1.153	1.253	8.73
75)	T	1,3-Dichlorobe...			0.769	0.819	0.788	0.662	0.671	0.742	9.63
76)	T	1,4-Dichlorobe...			0.726	0.744	0.739	0.665	0.675	0.710	5.22
77)	T	1,2-Dichlorobe...			0.730	0.739	0.776	0.644	0.660	0.710	7.89
78)	T	Hexachloro-1,3...			0.630	0.651	0.657	0.498	0.526	0.592	12.58
79)	T	Naphthalene			0.648	0.818	0.994	1.114	1.136	0.942	22.01
80)	T	Naphthalene,2-...			0.123	0.136	0.225	0.305	0.336	0.225	42.81
81)	T	1,2,4-Trichlor...			0.493	0.558	0.638	0.640	0.647	0.595	11.41

 (#) = Out of Range

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034776.D
 Acq On : 4 Mar 2020 1:23
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:44:52 PM

Quant Time: Mar 04 06:05:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1135004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2383831	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2548684m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	2020954	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1379374	7.706	ppbv	100
3) Chlorodifluoromethane	2.96	51	1154287	9.390	ppbv	100
4) Chloromethane	3.11	50	635537	9.320	ppbv	100
5) Vinyl Chloride	3.23	62	620908	9.261	ppbv	100
6) Bromomethane	3.46	94	366275	9.340	ppbv	100
7) Chloroethane	3.54	64	231691	9.345	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	1411188	8.925	ppbv	100
9) Propene	2.98	41	490245	9.595	ppbv	100
10) Heptane	8.16	43	1323612	10.047	ppbv	100
11) Trichlorofluoromethane	3.94	101	1436790	9.159	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	982399	8.917	ppbv	100
13) Ethanol	3.59	45	143792	8.932	ppbv	100
14) Bromoethene	3.73	108	445905	9.650	ppbv	100
15) Acetone	3.84	43	1128181	8.711	ppbv	100
16) 1,3-Butadiene	3.31	39	592686	9.861	ppbv	100
17) tert-Butyl alcohol	4.29	59	1118179	11.261	ppbv	100
18) 1,1-Dichloroethene	4.29	96	455332	9.203	ppbv	100
19) Isopropyl Alcohol	3.96	45	862800	11.168	ppbv	99
20) Methylene Chloride	4.34	84	400058	8.339	ppbv	100
21) Allyl Chloride	4.41	41	800476	9.436	ppbv	100
22) trans-1,2-Dichloroethene	4.89	96	438238	9.169	ppbv	100
23) Vinyl Acetate	5.08	43	1836752	10.433	ppbv	100
24) 1,1-Dichloroethane	5.02	63	1292563	9.225	ppbv	100
25) Ethyl Acetate	5.69	43	2222607	9.691	ppbv	100
26) Hexane	5.70	57	998749	9.475	ppbv	100
27) Carbon Disulfide	4.55	76	1159848	9.797	ppbv	100
28) Methyl tert-Butyl Ether	5.04	73	1485671	9.882	ppbv	100
29) Chloroform	5.77	83	1556507	9.261	ppbv	100
30) Cyclohexane	7.16	84	822959	10.063	ppbv	100
31) cis-1,2-Dichloroethene	5.56	61	1049884	10.114	ppbv	100
32) 1,1,1-Trichloroethane	6.54	97	1521172	9.653	ppbv	100
34) 2-Butanone	5.25	43	1485934	9.868	ppbv	100
35) Carbon Tetrachloride	7.05	117	1550802	9.705	ppbv	100
36) Benzene	6.92	78	1965995	9.571	ppbv	100
37) 1,2-Dichloroethane	6.33	62	1279365	9.788	ppbv	100
38) Trichloroethene	7.87	130	738833	9.315	ppbv	100
39) 1,2-Dichloropropane	7.65	63	784040	9.617	ppbv	100
40) 1,4-Dioxane	7.87	88	290797	10.487	ppbv #	99
41) Tetrahydrofuran	6.07	42	809501	10.260	ppbv	100
42) Bromodichloromethane	7.83	83	1724314	10.085	ppbv	100
43) Methyl Methacrylate	8.05	69	906988	10.502	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034776.D
 Acq On : 4 Mar 2020 1:23
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:44:52 PM

Quant Time: Mar 04 06:05:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3433486	9.559	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1055917	11.264	ppbv	100
46) cis-1,3-Dichloropropene	8.75	75	1227357	10.891	ppbv	100
47) 1,1,2-Trichloroethane	9.52	97	817621	9.721	ppbv	100
48) Dibromochloromethane	10.36	129	1385620	10.549	ppbv	100
49) Bromoform	13.10	173	1234869	10.799	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	2220759	10.398	ppbv	100
51) 2-Hexanone	10.18	43	1842584	10.952	ppbv	100
52) Tetrachloroethene	11.28	164	694147	9.172	ppbv	100
53) Toluene	9.85	91	2259807	10.330	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1255632	9.995	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.18	131	1032096	9.416	ppbv	100
57) Chlorobenzene	12.21	112	1701841	9.022	ppbv	100
58) Ethyl Benzene	12.77	91	3102641	10.012	ppbv	100
59) m/p-Xylene	13.05	91	5066637m	18.838	ppbv	
60) o-Xylene	13.76	91	2530647	9.441	ppbv	100
61) Styrene	13.59	104	1812232	10.561	ppbv	100
62) Isopropylbenzene	14.73	105	3687905	9.430	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1822699	8.727	ppbv	100
64) n-propylbenzene	15.63	120	974289	9.672	ppbv	100
65) tert-Butylbenzene	16.82	119	3224836	9.529	ppbv	100
66) Benzyl Chloride	17.06	91	1297856	10.576	ppbv	100
67) sec-Butylbenzene	17.36	105	4637776	9.506	ppbv	100
69) p-Isopropyltoluene	17.72	119	3847263	9.578	ppbv	100
70) n-Butylbenzene	18.62	91	4190053	9.568	ppbv	100
71) 2-Chlorotoluene	15.52	91	2953433	9.726	ppbv	100
72) 4-Ethyltoluene	15.91	105	2987363	9.991	ppbv	100
73) 1,3,5-Trimethylbenzene	16.07	105	2843906	9.871	ppbv	100
74) 1,2,4-Trimethylbenzene	16.83	105	2936150	9.219	ppbv	100
75) 1,3-Dichlorobenzene	17.07	146	1685971	9.174	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1695548	9.244	ppbv	100
77) 1,2-Dichlorobenzene	17.89	146	1640347	9.239	ppbv	100
78) Hexachloro-1,3-Butadiene	23.45	225	1268903	8.296	ppbv	100
79) Naphthalene	22.30	128	2839387	10.116	ppbv	100
80) Naphthalene, 2-methyl-	25.04	142	776591	8.970	ppbv	100
81) 1,2,4-Trichlorobenzene	22.02	180	1631371	9.715	ppbv	100

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

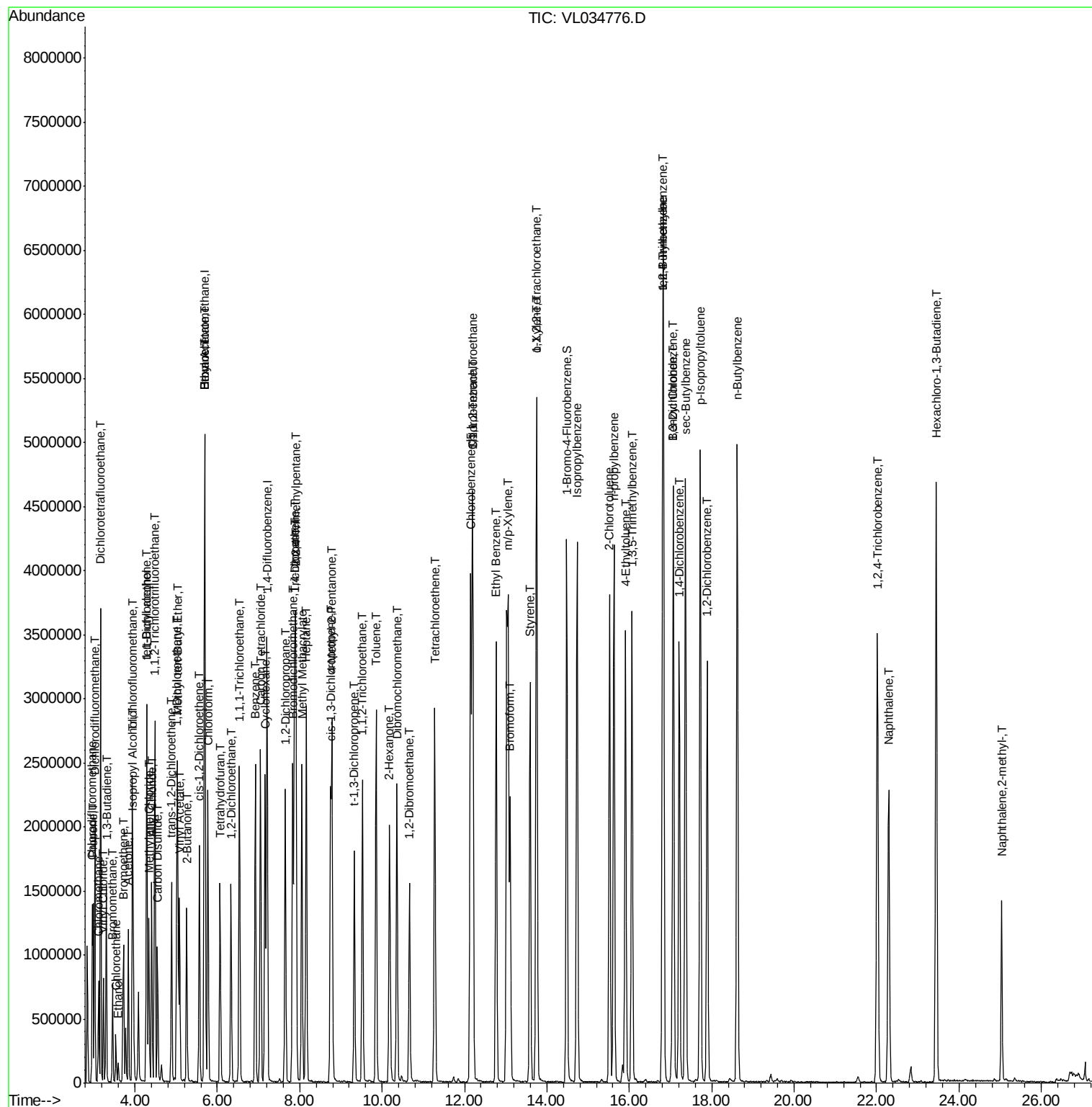
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
Data File : VL034776.D
Acq On : 4 Mar 2020 1:23
Operator : SY/AP
Sample : VSTDICCC010
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

apatel
3/4/2020 4:44:52 PM

Quant Time: Mar 04 06:05:52 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 05:54:58 2020
Response via : Initial Calibration



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034777.D
 Acq On : 4 Mar 2020 2:04
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:44:55 PM

Quant Time: Mar 04 06:08:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1142370	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2342737	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2417805	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1964779	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	432065	2.398 ppbv	95
3) Chlorodifluoromethane	2.97	51	270419	2.186 ppbv	98
4) Chloromethane	3.12	50	150686	2.195 ppbv	93
5) Vinyl Chloride	3.24	62	141159	2.092 ppbv	98
6) Bromomethane	3.46	94	83955	2.127 ppbv	93
7) Chloroethane	3.54	64	50934	2.041 ppbv	95
8) Dichlorotetrafluoroethane	3.17	85	339217	2.131 ppbv	97
9) Propene	2.99	41	107892	2.098 ppbv	99
10) Heptane	8.16	43	278275	2.099 ppbv	98
11) Trichlorofluoromethane	3.94	101	350744	2.221 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	245449	2.214 ppbv	95
13) Ethanol	3.60	45	27581	1.702 ppbv	94
14) Bromoethene	3.73	108	99401	2.137 ppbv	96
15) Acetone	3.84	43	290296	2.227 ppbv	99
16) 1,3-Butadiene	3.31	39	130676	2.160 ppbv	99
17) tert-Butyl alcohol	4.30	59	156234	1.563 ppbv	98
18) 1,1-Dichloroethene	4.29	96	102528	2.059 ppbv	89
19) Isopropyl Alcohol	3.97	45	121775	1.566 ppbv #	93
20) Methylene Chloride	4.34	84	100185	2.075 ppbv	95
21) Allyl Chloride	4.41	41	181211	2.122 ppbv	100
22) trans-1,2-Dichloroethene	4.89	96	102546	2.132 ppbv	98
23) Vinyl Acetate	5.08	43	400547	2.261 ppbv	98
24) 1,1-Dichloroethane	5.01	63	299545	2.124 ppbv	100
25) Ethyl Acetate	5.69	43	498658	2.160 ppbv	99
26) Hexane	5.70	57	221772m	2.090 ppbv	
27) Carbon Disulfide	4.56	76	258013	2.165 ppbv	97
28) Methyl tert-Butyl Ether	5.05	73	325362	2.150 ppbv	98
29) Chloroform	5.76	83	355356	2.101 ppbv	98
30) Cyclohexane	7.16	84	167424	2.034 ppbv #	83
31) cis-1,2-Dichloroethene	5.56	61	217977	2.086 ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	333844	2.105 ppbv	99
34) 2-Butanone	5.26	43	332591	2.248 ppbv	98
35) Carbon Tetrachloride	7.05	117	346122	2.204 ppbv	98
36) Benzene	6.92	78	432670	2.143 ppbv	98
37) 1,2-Dichloroethane	6.33	62	278543	2.168 ppbv	100
38) Trichloroethene	7.87	130	154521	1.982 ppbv	95
39) 1,2-Dichloropropane	7.65	63	165556	2.066 ppbv	92
40) 1,4-Dioxane	7.88	88	47756m	1.752 ppbv	
41) Tetrahydrofuran	6.08	42	171178	2.208 ppbv	98
42) Bromodichloromethane	7.83	83	357658	2.129 ppbv #	98
43) Methyl Methacrylate	8.05	69	184917	2.179 ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034777.D
 Acq On : 4 Mar 2020 2:04
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:44:55 PM

Quant Time: Mar 04 06:08:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	769020	2.179	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	184720	2.005	ppbv	92
46) cis-1,3-Dichloropropene	8.74	75	226957	2.049	ppbv	95
47) 1,1,2-Trichloroethane	9.52	97	183926	2.225	ppbv	98
48) Dibromochloromethane	10.35	129	284601	2.205	ppbv	99
49) Bromoform	13.10	173	247736m	2.204	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	482948	2.301	ppbv	99
51) 2-Hexanone	10.18	43	385497	2.331	ppbv #	97
52) Tetrachloroethene	11.28	164	148421	1.995	ppbv	97
53) Toluene	9.85	91	470645	2.189	ppbv	99
54) 1,2-Dibromoethane	10.66	107	274775	2.226	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.18	131	226292	2.176	ppbv #	1
57) Chlorobenzene	12.20	112	393892	2.201	ppbv	97
58) Ethyl Benzene	12.76	91	657950	2.238	ppbv	98
59) m/p-Xylene	13.05	91	1134162m	4.445	ppbv	
60) o-Xylene	13.75	91	564462	2.220	ppbv	99
61) Styrene	13.58	104	356825	2.192	ppbv	99
62) Isopropylbenzene	14.73	105	847152	2.283	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.73	83	424324	2.142	ppbv	100
64) n-propylbenzene	15.62	120	209781	2.195	ppbv	84
65) tert-Butylbenzene	16.81	119	726400	2.263	ppbv	96
66) Benzyl Chloride	17.06	91	204758	1.759	ppbv	98
67) sec-Butylbenzene	17.36	105	1079139	2.332	ppbv	98
69) p-Isopropyltoluene	17.72	119	869406	2.282	ppbv	99
70) n-Butylbenzene	18.62	91	950487	2.288	ppbv	97
71) 2-Chlorotoluene	15.52	91	659608	2.290	ppbv	97
72) 4-Ethyltoluene	15.91	105	645881	2.277	ppbv	100
73) 1,3,5-Trimethylbenzene	16.06	105	613420	2.244	ppbv	90
74) 1,2,4-Trimethylbenzene	16.82	105	672747m	2.227	ppbv	
75) 1,3-Dichlorobenzene	17.07	146	381140	2.186	ppbv	97
76) 1,4-Dichlorobenzene	17.20	146	357532	2.055	ppbv	96
77) 1,2-Dichlorobenzene	17.89	146	375413	2.229	ppbv	98
78) Hexachloro-1,3-Butadiene	23.45	225	317545	2.188	ppbv	99
79) Naphthalene	22.30	128	480449	1.804	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	108575	1.322	ppbv	97
81) 1,2,4-Trichlorobenzene	22.01	180	308653m	1.938	ppbv	

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034778.D
 Acq On : 4 Mar 2020 2:42
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:00 PM

Quant Time: Mar 04 06:16:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1119437	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2329350	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2306286	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1922878	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	215307	1.220	ppbv	90
3) Chlorodifluoromethane	2.96	51	138537	1.143	ppbv	99
4) Chloromethane	3.12	50	72606	1.080	ppbv	100
5) Vinyl Chloride	3.24	62	71695	1.084	ppbv	95
6) Bromomethane	3.46	94	41815	1.081	ppbv	90
7) Chloroethane	3.54	64	27465	1.123	ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	170813	1.095	ppbv	99
9) Propene	2.99	41	51772	1.027	ppbv	100
10) Heptane	8.16	43	130774	1.006	ppbv	97
11) Trichlorofluoromethane	3.94	101	179785	1.162	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	121058	1.114	ppbv	97
13) Ethanol	3.60	45	21753m	1.370	ppbv	
14) Bromoethene	3.73	108	49541	1.087	ppbv	97
15) Acetone	3.85	43	145189	1.137	ppbv	96
16) 1,3-Butadiene	3.31	39	62667	1.057	ppbv	98
17) tert-Butyl alcohol	4.29	59	124309m	1.269	ppbv	
18) 1,1-Dichloroethene	4.29	96	53554	1.097	ppbv	98
19) Isopropyl Alcohol	3.96	45	92174m	1.210	ppbv	
20) Methylene Chloride	4.34	84	53650m	1.134	ppbv	
21) Allyl Chloride	4.41	41	88843	1.062	ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	51055	1.083	ppbv	89
23) Vinyl Acetate	5.08	43	184322	1.062	ppbv	99
24) 1,1-Dichloroethane	5.01	63	142943	1.034	ppbv	98
25) Ethyl Acetate	5.69	43	246634	1.090	ppbv	98
26) Hexane	5.70	57	103896	0.999	ppbv	92
27) Carbon Disulfide	4.55	76	117867	1.009	ppbv #	90
28) Methyl tert-Butyl Ether	5.04	73	162010	1.093	ppbv	99
29) Chloroform	5.76	83	183687	1.108	ppbv	89
30) Cyclohexane	7.16	84	74355	0.922	ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	105507	1.031	ppbv	92
32) 1,1,1-Trichloroethane	6.54	97	158926	1.023	ppbv	96
34) 2-Butanone	5.26	43	161186	1.096	ppbv	99
35) Carbon Tetrachloride	7.04	117	166490	1.066	ppbv #	94
36) Benzene	6.92	78	203002	1.011	ppbv	95
37) 1,2-Dichloroethane	6.33	62	138806	1.087	ppbv	99
38) Trichloroethene	7.87	130	76131m	0.982	ppbv	
39) 1,2-Dichloropropane	7.65	63	84192	1.057	ppbv	92
40) 1,4-Dioxane	7.89	88	32553m	1.201	ppbv	
41) Tetrahydrofuran	6.08	42	79526m	1.032	ppbv	
42) Bromodichloromethane	7.82	83	172913	1.035	ppbv #	95
43) Methyl Methacrylate	8.05	69	79504	0.942	ppbv	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034778.D
 Acq On : 4 Mar 2020 2:42
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

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 3/4/2020 4:45:00 PM

Quant Time: Mar 04 06:16:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.90	57	366594	1.045	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	75979m	0.829	ppbv	
46) cis-1,3-Dichloropropene	8.74	75	100613	0.914	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	85263	1.037	ppbv	92
48) Dibromochloromethane	10.35	129	127644	0.995	ppbv	98
49) Bromoform	13.10	173	109268	0.978	ppbv	100
50) 4-Methyl-2-Pentanone	8.79	43	219207	1.050	ppbv	97
51) 2-Hexanone	10.19	43	160545	0.977	ppbv #	97
52) Tetrachloroethene	11.28	164	71600	0.968	ppbv	89
53) Toluene	9.85	91	213062	0.997	ppbv	96
54) 1,2-Dibromoethane	10.66	107	127903m	1.042	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.18	131	109729	1.106	ppbv #	1
57) Chlorobenzene	12.20	112	187742m	1.100	ppbv	
58) Ethyl Benzene	12.77	91	294016	1.048	ppbv	100
59) m/p-Xylene	13.05	91	521615m	2.143	ppbv	
60) o-Xylene	13.74	91	273095	1.126	ppbv	91
61) Styrene	13.59	104	149887	0.965	ppbv	98
62) Isopropylbenzene	14.73	105	395540	1.118	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.73	83	199702m	1.057	ppbv	
64) n-propylbenzene	15.63	120	95719m	1.050	ppbv	
65) tert-Butylbenzene	16.81	119	336153	1.098	ppbv	96
66) Benzyl Chloride	17.06	91	83497m	0.752	ppbv	
67) sec-Butylbenzene	17.36	105	491433	1.113	ppbv	98
69) p-Isopropyltoluene	17.72	119	390758	1.075	ppbv	98
70) n-Butylbenzene	18.61	91	425099m	1.073	ppbv	
71) 2-Chlorotoluene	15.51	91	288529	1.050	ppbv	98
72) 4-Ethyltoluene	15.90	105	281903	1.042	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	275343	1.056	ppbv	89
74) 1,2,4-Trimethylbenzene	16.83	105	309477	1.074	ppbv #	87
75) 1,3-Dichlorobenzene	17.06	146	188952	1.136	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	171495m	1.033	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	170394	1.061	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	150032m	1.084	ppbv	
79) Naphthalene	22.30	128	188602	0.743	ppbv #	93
80) Naphthalene, 2-methyl-	25.04	142	31305m	0.400	ppbv	
81) 1,2,4-Trichlorobenzene	22.02	180	128595m	0.846	ppbv	

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034779.D
 Acq On : 4 Mar 2020 3:19
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:06 PM

Quant Time: Mar 04 06:24:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1067405	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2240610	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2179161	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1875021	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	112450	0.668 ppbv	99
3) Chlorodifluoromethane	2.96	51	68911	0.596 ppbv	97
4) Chloromethane	3.12	50	35441	0.553 ppbv	90
5) Vinyl Chloride	3.23	62	32945	0.523 ppbv	97
6) Bromomethane	3.46	94	20223	0.548 ppbv	86
7) Chloroethane	3.54	64	13356m	0.573 ppbv	
8) Dichlorotetrafluoroethane	3.16	85	87993	0.592 ppbv	99
9) Propene	2.99	41	25333	0.527 ppbv	97
10) Heptane	8.15	43	54574	0.440 ppbv	95
11) Trichlorofluoromethane	3.94	101	87148	0.591 ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.48	101	60859	0.587 ppbv	97
13) Ethanol	3.60	45	11392m	0.752 ppbv	
14) Bromoethene	3.73	108	22367	0.515 ppbv	83
15) Acetone	3.85	43	76838	0.631 ppbv	99
16) 1,3-Butadiene	3.31	39	29740	0.526 ppbv	98
17) tert-Butyl alcohol	4.30	59	58682m	0.628 ppbv	
18) 1,1-Dichloroethene	4.29	96	26070	0.560 ppbv	78
19) Isopropyl Alcohol	3.98	45	42997	0.592 ppbv #	91
20) Methylene Chloride	4.34	84	27125	0.601 ppbv #	88
21) Allyl Chloride	4.41	41	41719	0.523 ppbv	93
22) trans-1,2-Dichloroethene	4.89	96	24828	0.552 ppbv	87
23) Vinyl Acetate	5.09	43	78781	0.476 ppbv #	97
24) 1,1-Dichloroethane	5.02	63	74494	0.565 ppbv	99
25) Ethyl Acetate	5.70	43	114328	0.530 ppbv	99
26) Hexane	5.69	57	48127	0.485 ppbv	88
27) Carbon Disulfide	4.55	76	53988	0.485 ppbv #	81
28) Methyl tert-Butyl Ether	5.05	73	72619	0.514 ppbv	98
29) Chloroform	5.76	83	90406	0.572 ppbv	86
30) Cyclohexane	7.16	84	33813m	0.440 ppbv	
31) cis-1,2-Dichloroethene	5.56	61	49626	0.508 ppbv #	89
32) 1,1,1-Trichloroethane	6.53	97	79798	0.538 ppbv	96
34) 2-Butanone	5.26	43	69882	0.494 ppbv	100
35) Carbon Tetrachloride	7.04	117	81448	0.542 ppbv #	85
36) Benzene	6.92	78	95236	0.493 ppbv #	89
37) 1,2-Dichloroethane	6.33	62	71944	0.586 ppbv	98
38) Trichloroethene	7.86	130	34370	0.461 ppbv	87
39) 1,2-Dichloropropane	7.64	63	39712m	0.518 ppbv	
40) 1,4-Dioxane	7.90	88	13693m	0.525 ppbv	
41) Tetrahydrofuran	6.09	42	31451m	0.424 ppbv	
42) Bromodichloromethane	7.82	83	83110m	0.517 ppbv	
43) Methyl Methacrylate	8.05	69	34643	0.427 ppbv	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034779.D
 Acq On : 4 Mar 2020 3:19
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:06 PM

Quant Time: Mar 04 06:24:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 04 2020
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.90	57	160034m	0.474	ppbv	
45) t-1,3-Dichloropropene	9.32	75	31126m	0.353	ppbv	
46) cis-1,3-Dichloropropene	8.74	75	41484m	0.392	ppbv	
47) 1,1,2-Trichloroethane	9.52	97	42130m	0.533	ppbv	
48) Dibromochloromethane	10.35	129	57986m	0.470	ppbv	
49) Bromoform	13.10	173	49215m	0.458	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	94260	0.470	ppbv	96
51) 2-Hexanone	10.19	43	66213m	0.419	ppbv	
52) Tetrachloroethene	11.27	164	31455m	0.442	ppbv	
53) Toluene	9.84	91	80570	0.392	ppbv	98
54) 1,2-Dibromoethane	10.66	107	56425m	0.478	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.18	131	49557m	0.529	ppbv	
57) Chlorobenzene	12.19	112	92703	0.575	ppbv #	95
58) Ethyl Benzene	12.76	91	119815	0.452	ppbv #	75
59) m/p-Xylene	13.05	91	227904m	0.991	ppbv	
60) o-Xylene	13.74	91	114497m	0.500	ppbv	
61) Styrene	13.58	104	57261m	0.390	ppbv	
62) Isopropylbenzene	14.73	105	173283	0.518	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.74	83	97133m	0.544	ppbv	
64) n-propylbenzene	15.61	120	40595m	0.471	ppbv	
65) tert-Butylbenzene	16.81	119	133451	0.461	ppbv	89
66) Benzyl Chloride	17.06	91	36108m	0.344	ppbv	
67) sec-Butylbenzene	17.36	105	197778	0.474	ppbv	98
69) p-Isopropyltoluene	17.72	119	154349m	0.449	ppbv	
70) n-Butylbenzene	18.62	91	170876	0.456	ppbv	98
71) 2-Chlorotoluene	15.52	91	116294	0.448	ppbv	97
72) 4-Ethyltoluene	15.90	105	118595m	0.464	ppbv	
73) 1,3,5-Trimethylbenzene	16.06	105	116407	0.473	ppbv	90
74) 1,2,4-Trimethylbenzene	16.82	105	133757m	0.491	ppbv	
75) 1,3-Dichlorobenzene	17.07	146	83830m	0.533	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	79115m	0.504	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	79485m	0.524	ppbv	
78) Hexachloro-1,3-Butadiene	23.45	225	68602m	0.525	ppbv	
79) Naphthalene	22.30	128	70553m	0.294	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	13428	0.181	ppbv	97
81) 1,2,4-Trichlorobenzene	22.02	180	53727m	0.374	ppbv	

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

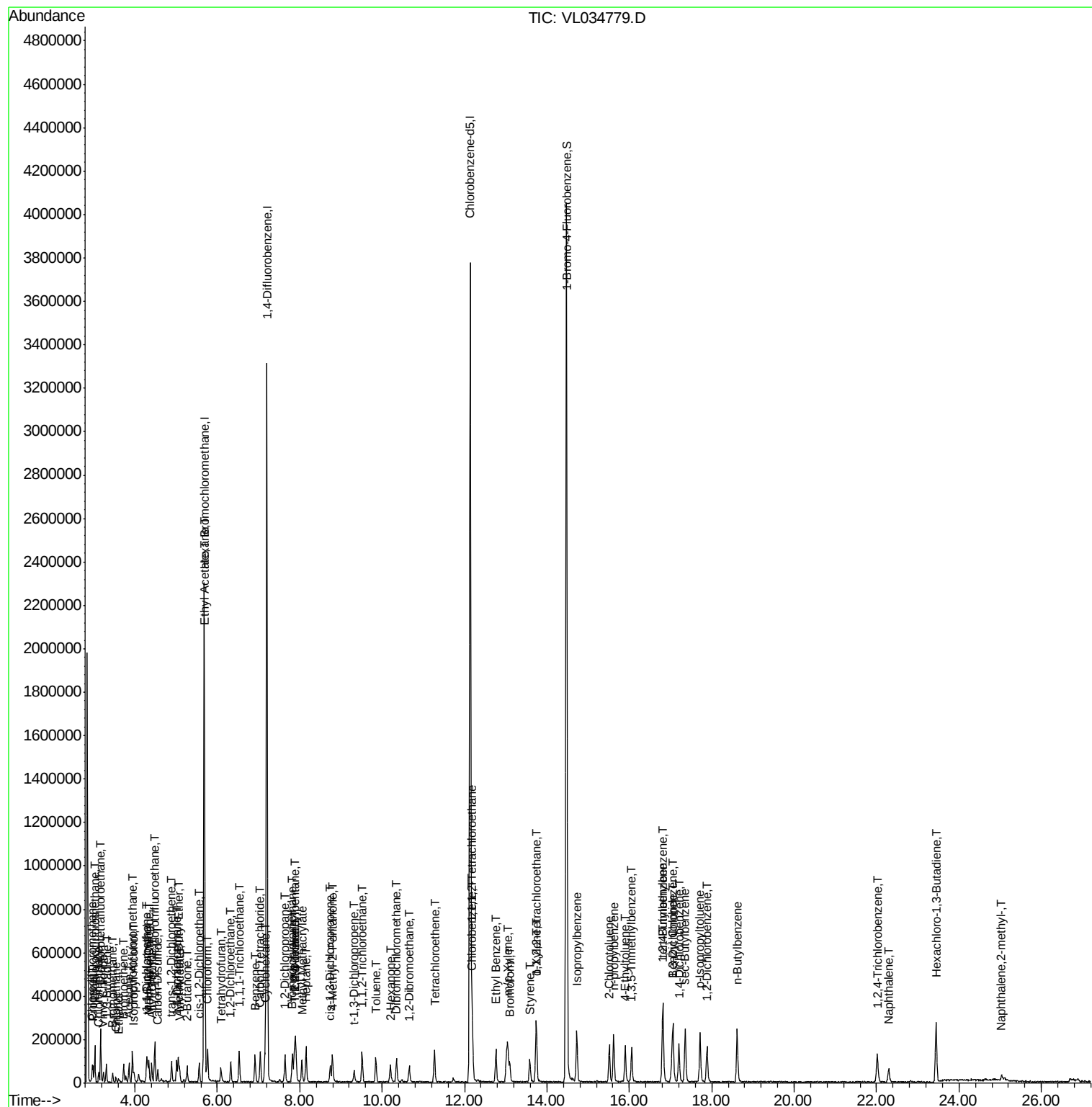
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030420\
Data File : VL034779.D
Acq On : 4 Mar 2020 3:19
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

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Quant Time: Mar 04 06:24:31 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 05:54:58 2020
Response via : Initial Calibration



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034780.D
 Acq On : 4 Mar 2020 3:57
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

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Quant Time: Mar 04 06:29:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 04 2020
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1076570	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2169098	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2149254	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1822979	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds					Ovalue
5) Vinyl Chloride	3.24	62	7596m	0.119	ppbv
32) 1,1,1-Trichloroethane	6.54	97	15710m	0.105	ppbv
35) Carbon Tetrachloride	7.04	117	16738m	0.115	ppbv
38) Trichloroethene	7.86	130	6813m	0.094	ppbv
52) Tetrachloroethene	11.27	164	7530m	0.109	ppbv
63) 1,1,2,2-Tetrachloroethane	13.73	83	19000m	0.108	ppbv

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

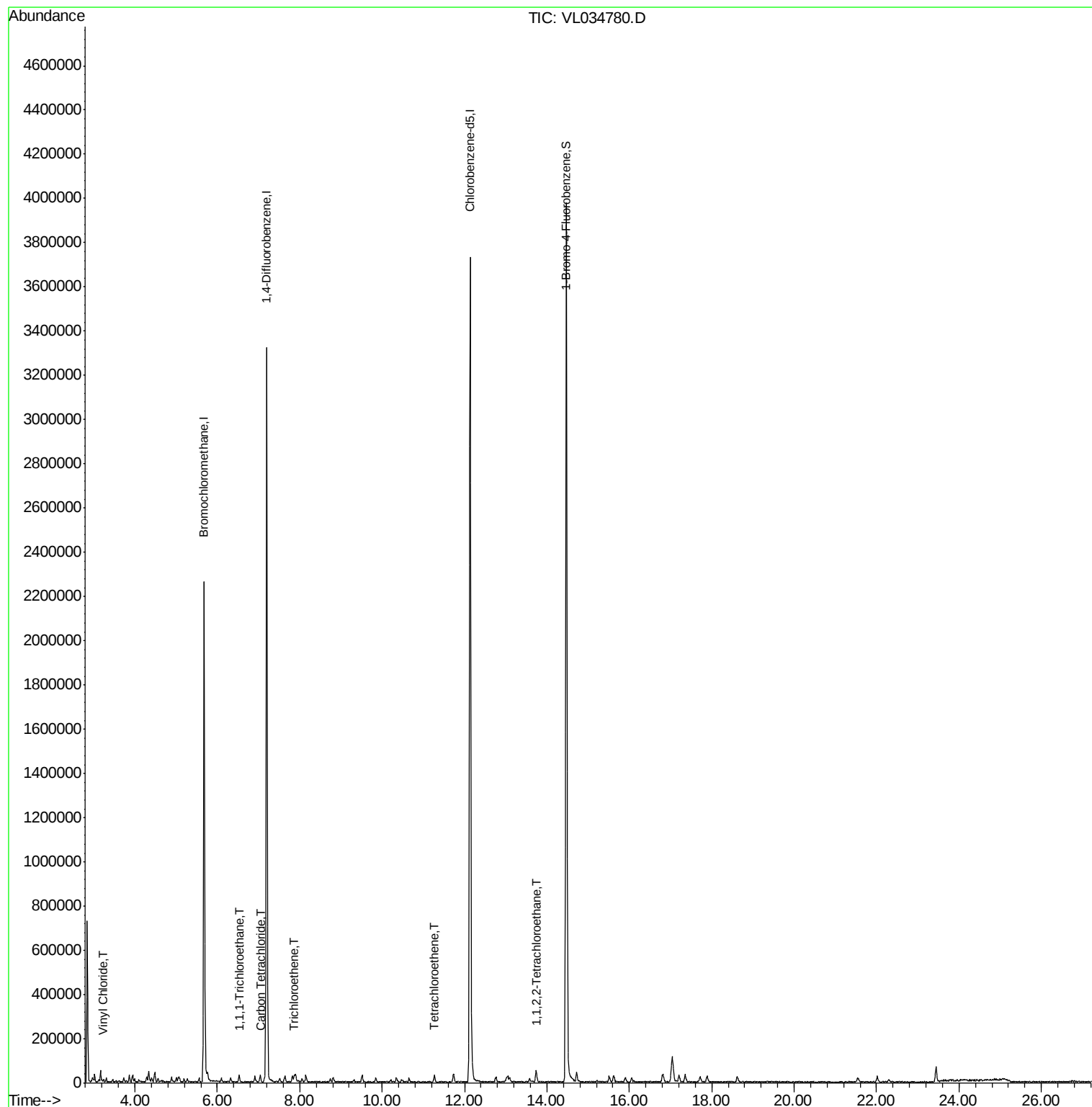
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030420\
Data File : VL034780.D
Acq On : 4 Mar 2020 3:57
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
APPROVED

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Quant Time: Mar 04 06:29:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 05:54:58 2020
Response via : Initial Calibration



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034781.D
 Acq On : 4 Mar 2020 4:34
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Manual Integrations
 APPROVED

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Quant Time: Mar 04 06:33:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 04 2020
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1025984	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2098844	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.13	117	2049504	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1757491	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	2672	0.044	ppbv	# 80
32) 1,1,1-Trichloroethane	6.52	97	6238m	0.044	ppbv	
35) Carbon Tetrachloride	7.04	117	6368m	0.045	ppbv	
38) Trichloroethene	7.86	130	2741m	0.039	ppbv	
52) Tetrachloroethene	11.26	164	2385m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.73	83	6088m	0.036	ppbv	

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

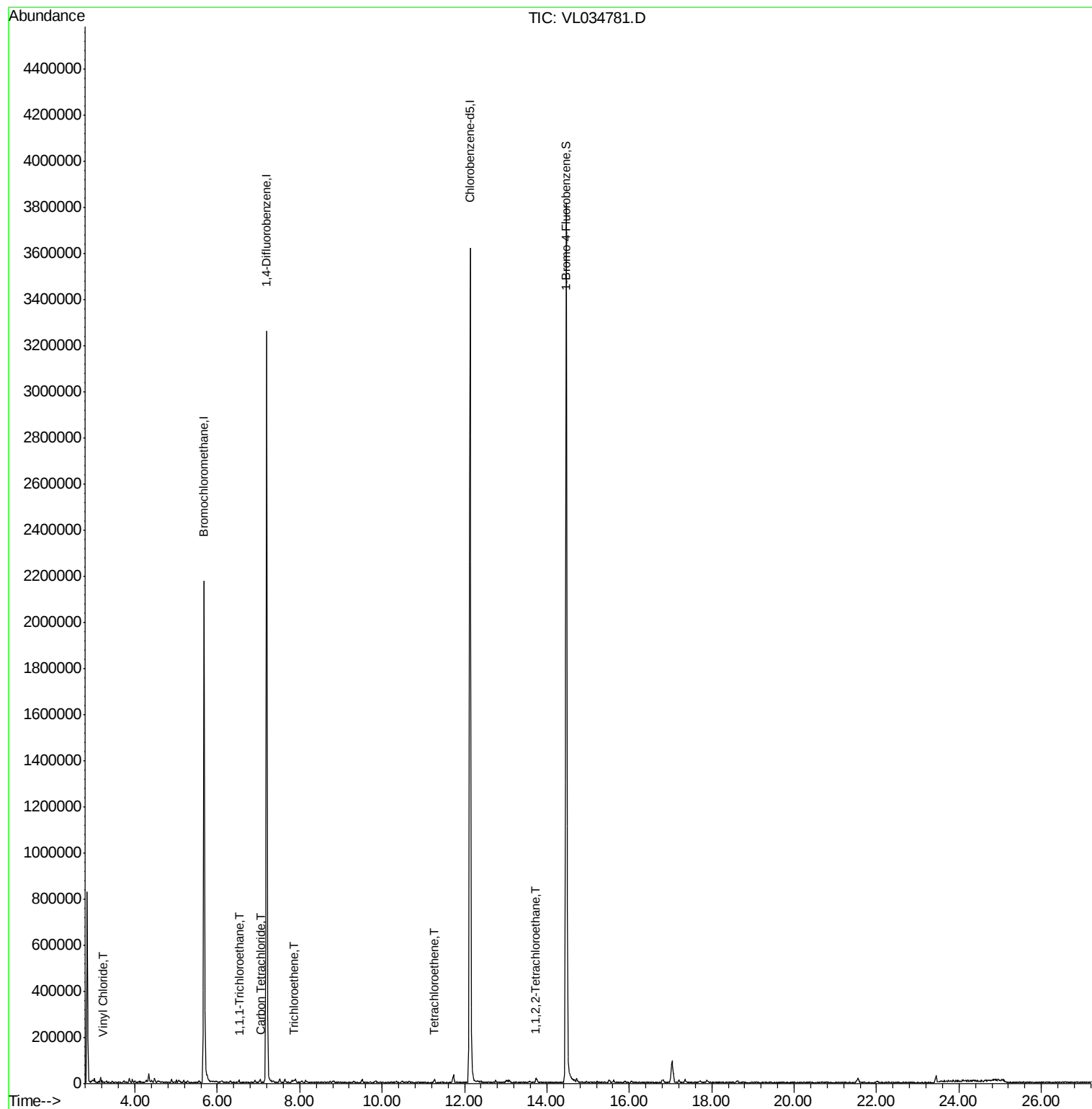
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030420\
Data File : VL034781.D
Acq On : 4 Mar 2020 4:34
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Manual Integrations
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Quant Time: Mar 04 06:33:25 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 05:54:58 2020
Response via : Initial Calibration



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034782.D
 Acq On : 4 Mar 2020 5:15
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Manual Integrations
 APPROVED

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Quant Time: Mar 04 06:35:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1094280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2246425	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2356945	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1959700	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1678939	9.728	ppbv	99
3) Chlorodifluoromethane	2.96	51	1587427	13.394	ppbv	96
4) Chloromethane	3.11	50	879989	13.385	ppbv	95
5) Vinyl Chloride	3.23	62	888920	13.752	ppbv	98
6) Bromomethane	3.45	94	535871	14.173	ppbv	93
7) Chloroethane	3.54	64	325177	13.603	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1946377	12.768	ppbv	99
9) Propene	2.98	41	658011	13.358	ppbv	99
10) Heptane	8.15	43	1844019	14.518	ppbv	98
11) Trichlorofluoromethane	3.93	101	2070741	13.691	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1438193	13.540	ppbv	98
13) Ethanol	3.59	45	185579	11.957	ppbv	98
14) Bromoethene	3.72	108	619770	13.912	ppbv	96
15) Acetone	3.84	43	1618757	12.964	ppbv	100
16) 1,3-Butadiene	3.30	39	817146	14.101	ppbv	98
17) tert-Butyl alcohol	4.29	59	1382467	14.441	ppbv	99
18) 1,1-Dichloroethene	4.28	96	664820	13.937	ppbv	100
19) Isopropyl Alcohol	3.96	45	1092016	14.661	ppbv	99
20) Methylene Chloride	4.33	84	588412	12.721	ppbv	97
21) Allyl Chloride	4.40	41	1178477	14.409	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	677420	14.701	ppbv	98
23) Vinyl Acetate	5.08	43	2519172	14.842	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1820580	13.477	ppbv	99
25) Ethyl Acetate	5.68	43	3053977	13.811	ppbv	99
26) Hexane	5.69	57	1378145	13.561	ppbv	99
27) Carbon Disulfide	4.54	76	1747795	15.313	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1948082	13.440	ppbv	99
29) Chloroform	5.77	83	2211487	13.648	ppbv	100
30) Cyclohexane	7.15	84	1152950	14.623	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	1452177	14.510	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2173007	14.302	ppbv	99
34) 2-Butanone	5.25	43	2035082	14.342	ppbv	99
35) Carbon Tetrachloride	7.04	117	2250596	14.945	ppbv	100
36) Benzene	6.92	78	2705151	13.975	ppbv	99
37) 1,2-Dichloroethane	6.33	62	1850295	15.022	ppbv	100
38) Trichloroethene	7.87	130	1039688	13.909	ppbv	96
39) 1,2-Dichloropropane	7.64	63	1098812	14.303	ppbv	97
40) 1,4-Dioxane	7.86	88	372290	14.247	ppbv #	97
41) Tetrahydrofuran	6.06	42	1120969	15.077	ppbv	99
42) Bromodichloromethane	7.83	83	2431755	15.092	ppbv	99
43) Methyl Methacrylate	8.04	69	1296697	15.932	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034782.D
 Acq On : 4 Mar 2020 5:15
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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Quant Time: Mar 04 06:35:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	4658446	13.763	ppbv	98
45) t-1,3-Dichloropropene	9.32	75	1548255	17.526	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1750276	16.482	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	1154982	14.572	ppbv	92
48) Dibromochloromethane	10.35	129	1996033	16.126	ppbv	100
49) Bromoform	13.10	173	1781835	16.535	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	3087030	15.338	ppbv	99
51) 2-Hexanone	10.17	43	2629186	16.583	ppbv	100
52) Tetrachloroethene	11.27	164	970002	13.601	ppbv	95
53) Toluene	9.85	91	3152705	15.293	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1771845	14.967	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	1456181	14.366	ppbv #	62
57) Chlorobenzene	12.20	112	2376832	13.625	ppbv	96
58) Ethyl Benzene	12.76	91	4275302	14.918	ppbv	97
59) m/p-Xylene	13.05	91	7003474m	28.158	ppbv	
60) o-Xylene	13.75	91	3540636	14.284	ppbv	99
61) Styrene	13.58	104	2557819	16.119	ppbv	98
62) Isopropylbenzene	14.73	105	5085527	14.062	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	2587060	13.394	ppbv	100
64) n-propylbenzene	15.62	120	1371149	14.719	ppbv	95
65) tert-Butylbenzene	16.81	119	4463496	14.262	ppbv	99
66) Benzyl Chloride	17.06	91	1923175	16.946	ppbv	99
67) sec-Butylbenzene	17.36	105	6305262	13.975	ppbv	99
69) p-Isopropyltoluene	17.72	119	5292985	14.249	ppbv	98
70) n-Butylbenzene	18.61	91	5777150	14.265	ppbv	98
71) 2-Chlorotoluene	15.51	91	4092939	14.575	ppbv	99
72) 4-Ethyltoluene	15.90	105	4207772	15.218	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	3949096	14.822	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	4075810	13.839	ppbv	94
75) 1,3-Dichlorobenzene	17.07	146	2371254	13.952	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	2385828	14.066	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	2332947	14.209	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1860962	13.156	ppbv	99
79) Naphthalene	22.29	128	4014915	15.468	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1189255	14.855	ppbv	98
81) 1,2,4-Trichlorobenzene	22.01	180	2289050	14.740	ppbv	99

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034783.D
 Acq On : 4 Mar 2020 5:54
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 ICVVL030420

Manual Integrations
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Quant Time: Mar 04 06:48:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1096060	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2297050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2360401	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1947564	9.90	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1377508	7.701	ppbv 95
3) Chlorodifluoromethane	2.96	51	1100694	8.815	ppbv 99
4) Chloromethane	3.11	50	615196	9.147	ppbv 94
5) Vinyl Chloride	3.23	62	613680	8.637	ppbv 99
6) Bromomethane	3.45	94	358520	9.245	ppbv 96
7) Chloroethane	3.54	64	236806	9.639	ppbv 97
8) Dichlorotetrafluoroethane	3.16	85	1391238	8.953	ppbv 100
9) Propene	2.98	41	471010	9.583	ppbv 99
10) Heptane	8.15	43	1239929	9.926	ppbv 97
11) Trichlorofluoromethane	3.93	101	1426594	8.913	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	973542	8.816	ppbv 99
13) Ethanol	3.59	45	129333	7.680	ppbv 98
14) Bromoethene	3.72	108	434717	9.593	ppbv 97
15) Acetone	3.83	43	1132155	8.626	ppbv 100
16) 1,3-Butadiene	3.30	39	572670	9.643	ppbv 99
17) tert-Butyl alcohol	4.28	59	1002152	9.683	ppbv 99
18) 1,1-Dichloroethene	4.28	96	457060	9.384	ppbv 97
19) Isopropyl Alcohol	3.96	45	795109	10.110	ppbv 100
20) Methylene Chloride	4.33	84	407448	8.698	ppbv 97
21) Allyl Chloride	4.40	41	803244	9.664	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	456383	9.599	ppbv 99
23) Vinyl Acetate	5.08	43	1793254	10.189	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1281586	9.382	ppbv 98
25) Ethyl Acetate	5.68	43	2163708	9.540	ppbv 100
26) Hexane	5.69	57	958222	9.671	ppbv 99
27) Carbon Disulfide	4.55	76	1194725	10.321	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1422075	9.642	ppbv 100
29) Chloroform	5.77	83	1522135	9.126	ppbv 99
30) Cyclohexane	7.15	84	791618	10.443	ppbv 99
31) cis-1,2-Dichloroethene	5.56	61	995325	9.794	ppbv 98
32) 1,1,1-Trichloroethane	6.53	97	1455889	8.833	ppbv 99
34) 2-Butanone	5.25	43	1432214	9.584	ppbv 99
35) Carbon Tetrachloride	7.04	117	1525331	8.800	ppbv 99
36) Benzene	6.92	78	1899532	9.677	ppbv 98
37) 1,2-Dichloroethane	6.33	62	1254143	9.354	ppbv 100
38) Trichloroethene	7.87	130	704902	9.214	ppbv 98
39) 1,2-Dichloropropane	7.65	63	754482	9.525	ppbv 98
40) 1,4-Dioxane	7.86	88	295253	10.776	ppbv # 93
41) Tetrahydrofuran	6.06	42	791609	10.382	ppbv 99
42) Bromodichloromethane	7.82	83	1651165	9.733	ppbv 99
43) Methyl Methacrylate	8.04	69	864896	10.398	ppbv 97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034783.D
 Acq On : 4 Mar 2020 5:54
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL030420

Manual Integrations
 APPROVED

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Quant Time: Mar 04 06:48:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3299861	9.620	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1042039	11.934	ppbv	97
46) cis-1,3-Dichloropropene	8.74	75	1216088	11.405	ppbv	97
47) 1,1,2-Trichloroethane	9.52	97	784683	9.383	ppbv #	88
48) Dibromochloromethane	10.35	129	1332159	10.187	ppbv	100
49) Bromoform	13.10	173	1168105	10.236	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2147294	10.028	ppbv	100
51) 2-Hexanone	10.17	43	1790233	10.658	ppbv	99
52) Tetrachloroethene	11.27	164	663493	9.149	ppbv	94
53) Toluene	9.84	91	2163384	10.414	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1209055	9.777	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	940010	8.988	ppbv #	60
57) Chlorobenzene	12.20	112	1614118	8.952	ppbv	95
58) Ethyl Benzene	12.76	91	2930733	10.075	ppbv	99
59) m/p-Xylene	13.05	91	4840906m	19.225	ppbv	
60) o-Xylene	13.74	91	2396058	9.405	ppbv	100
61) Styrene	13.58	104	1701496	10.766	ppbv	98
62) Isopropylbenzene	14.72	105	3346781	8.926	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1719679	8.563	ppbv	100
64) n-propylbenzene	15.61	120	876657m	9.324	ppbv	
65) tert-Butylbenzene	16.80	119	2904228	9.165	ppbv	99
66) Benzyl Chloride	17.05	91	1403347	13.699	ppbv	99
67) sec-Butylbenzene	17.36	105	4188904	9.072	ppbv	99
69) p-Isopropyltoluene	17.72	119	3439178	9.204	ppbv	99
70) n-Butylbenzene	18.61	91	3742838	9.160	ppbv	100
71) 2-Chlorotoluene	15.51	91	2661780	9.399	ppbv	100
72) 4-Ethyltoluene	15.90	105	2698738	9.514	ppbv	97
73) 1,3,5-Trimethylbenzene	16.05	105	2622711	9.639	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	2740841	9.266	ppbv	97
75) 1,3-Dichlorobenzene	17.06	146	1563435	8.929	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1561785	9.321	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1515925	9.050	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1204500	8.617	ppbv	100
79) Naphthalene	22.28	128	2618176	11.779	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	592716	11.164	ppbv	99
81) 1,2,4-Trichlorobenzene	22.01	180	1409906	10.034	ppbv	99

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

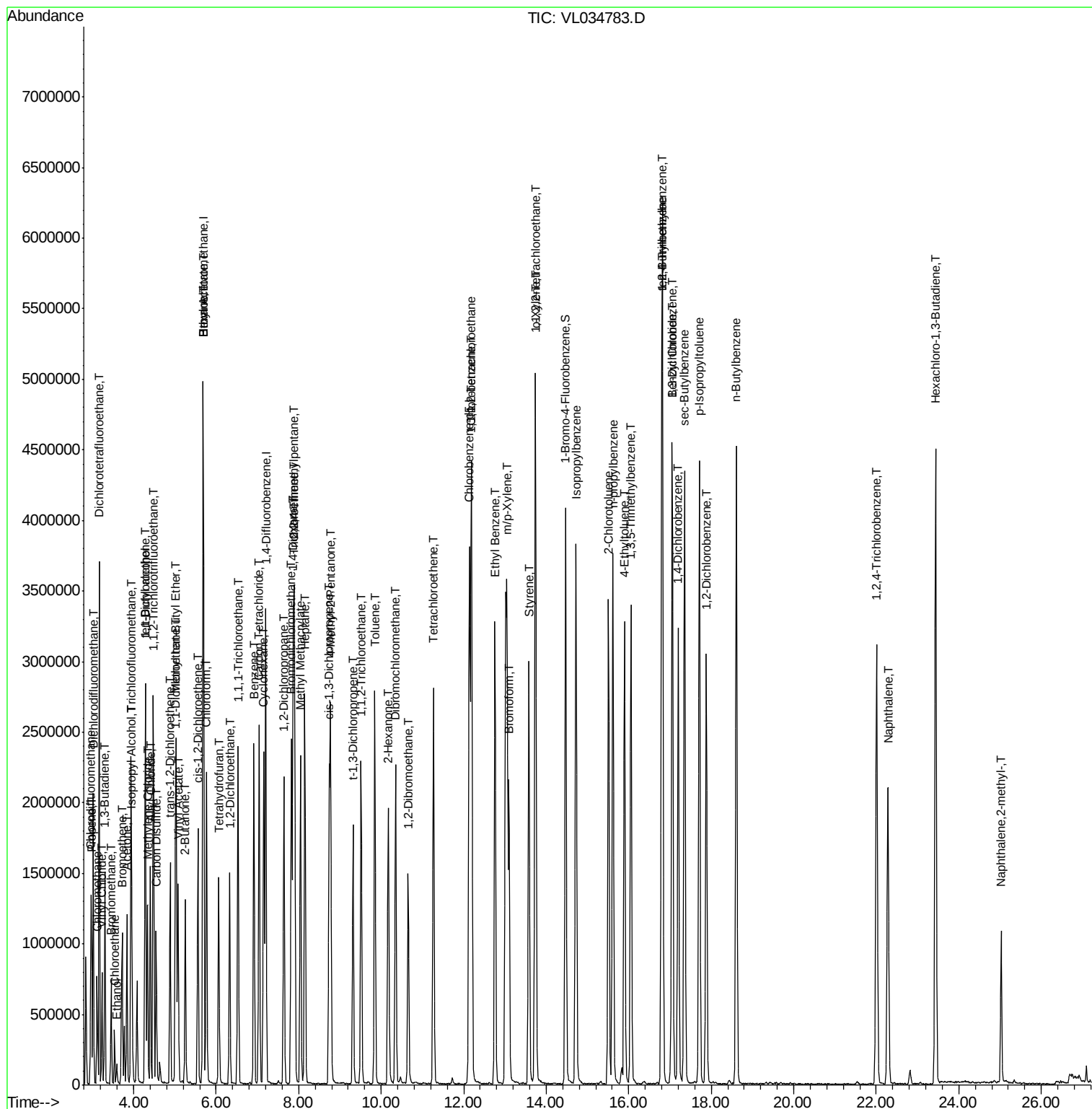
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
Data File : VL034783.D
Acq On : 4 Mar 2020 5:54
Operator : SY/AP
Sample : VSTDICV010
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL030420

Manual Integrations
APPROVED

apatel
3/4/2020 4:45:26 PM

Quant Time: Mar 04 06:48:44 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL030420\
 Data File : VL034783.D
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Instrument :
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Quant Time: Mar 04 06:48:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
 QLast Update : Wed Mar 04 06:36:39 2020
 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	AvqRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	1.632	1.257	23.0	100	0.00
3	Chlorodifluoromethane	1.139	1.004	11.9	95	0.00
4	Chloromethane	0.614	0.561	8.6	97	0.00
5 T	Vinyl Chloride	0.648	0.560	13.6	99	0.00
6 T	Bromomethane	0.354	0.327	7.6	98	0.00
7	Chloroethane	0.224	0.216	3.6	102	0.00
8 T	Dichlorotetrafluoroethane	1.418	1.269	10.5	99	0.00
9 T	Propene	0.448	0.430	4.0	96	0.00
10 T	Heptane	1.140	1.131	0.8	94	0.00
11 T	Trichlorofluoromethane	1.460	1.302	10.8	99	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.008	0.888	11.9	99	0.00
13	Ethanol	0.154	0.118	23.4	90	0.00
14 T	Bromoethene	0.413	0.397	3.9	97	0.00
15 T	Acetone	1.197	1.033	13.7	100	0.00
16 T	1,3-Butadiene	0.542	0.522	3.7	97	0.00
17	tert-Butyl alcohol	0.944	0.914	3.2	90	0.00
18 T	1,1-Dichloroethene	0.444	0.417	6.1	100	0.00
19 T	Isopropyl Alcohol	0.717	0.725	-1.1	92	0.00
20 T	Methylene Chloride	0.427	0.372	12.9	102	0.00
21 T	Allyl Chloride	0.758	0.733	3.3	100	0.00
22 T	trans-1,2-Dichloroethene	0.434	0.416	4.1	104	0.00
23 T	Vinyl Acetate	1.606	1.636	-1.9	98	0.00
24 T	1,1-Dichloroethane	1.246	1.169	6.2	99	0.00
25 T	Ethyl Acetate	2.069	1.974	4.6	97	0.00
26 T	Hexane	0.904	0.874	3.3	96	0.00
27 T	Carbon Disulfide	1.056	1.090	-3.2	103	0.00
28 T	Methyl tert-Butyl Ether	1.346	1.297	3.6	96	0.00
29 T	Chloroform	1.522	1.389	8.7	98	0.00
30 T	Cyclohexane	0.692	0.722	-4.3	96	0.00
31 T	cis-1,2-Dichloroethene	0.927	0.908	2.0	95	0.00
32 T	1,1,1-Trichloroethane	1.504	1.328	11.7	96	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.651	0.624	4.1	96	0.00
35 T	Carbon Tetrachloride	0.755	0.664	12.1	98	0.00
36 T	Benzene	0.855	0.827	3.3	97	0.00
37 T	1,2-Dichloroethane	0.584	0.546	6.5	98	0.00
38 T	Trichloroethene	0.333	0.307	7.8	95	0.00
39 T	1,2-Dichloropropane	0.345	0.328	4.9	96	0.00
40 T	1,4-Dioxane	0.119	0.129	-8.4	102	0.00
41 T	Tetrahydrofuran	0.332	0.345	-3.9	98	0.00
42 T	Bromodichloromethane	0.739	0.719	2.7	96	0.00
43	Methyl Methacrylate	0.362	0.377	-4.1	95	0.00
44 T	2,2,4-Trimethylpentane	1.493	1.437	3.8	96	-0.01
45 T	t-1,3-Dichloropropene	0.380	0.454	-19.5	99	0.00

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Quant Time: Mar 04 06:48:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
 QLast Update : Wed Mar 04 06:36:39 2020
 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	AvqRF	CCRF	%Dev	Area%	Dev(min)
46 T	cis-1,3-Dichloropropene	0.464	0.529	-14.0	99	0.00
47 T	1,1,2-Trichloroethane	0.364	0.342	6.0	96	0.00
48 T	Dibromochloromethane	0.569	0.580	-1.9	96	0.00
49 T	Bromoform	0.497	0.509	-2.4	95	0.00
50 T	4-Methyl-2-Pentanone	0.932	0.935	-0.3	97	0.00
51 T	2-Hexanone	0.731	0.779	-6.6	97	-0.01
52 T	Tetrachloroethene	0.316	0.289	8.5	96	0.00
53 T	Toluene	0.904	0.942	-4.2	96	0.00
54 T	1,2-Dibromoethane	0.538	0.526	2.2	96	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.443	0.398	10.2	91	0.00
57 T	Chlorobenzene	0.764	0.684	10.5	95	0.00
58 T	Ethyl Benzene	1.232	1.242	-0.8	94	-0.01
59 T	m/p-Xylene	1.067	1.025	3.9	96	0.00
60 T	o-Xylene	1.079	1.015	5.9	95	-0.02
61 T	Styrene	0.670	0.721	-7.6	94	0.00
62	Isopropylbenzene	1.589	1.418	10.8	91	-0.01
63 T	1,1,2,2-Tetrachloroethane	0.851	0.729	14.3	94	0.00
64	n-propylbenzene	0.398	0.371	6.8	90	-0.01
65	tert-Butylbenzene	1.342	1.230	8.3	90	-0.01
66 T	Benzyl Chloride	0.434	0.595	-37.1#	108	0.00
67	sec-Butylbenzene	1.956	1.775	9.3	90	0.00
68 S	1-Bromo-4-Fluorobenzene	0.834	0.825	1.1	96	-0.01
69	p-Isopropyltoluene	1.583	1.457	8.0	89	0.00
70	n-Butylbenzene	1.731	1.586	8.4	89	0.00
71	2-Chlorotoluene	1.200	1.128	6.0	90	-0.01
72 T	4-Ethyltoluene	1.202	1.143	4.9	90	0.00
73 T	1,3,5-Trimethylbenzene	1.153	1.111	3.6	92	-0.01
74 T	1,2,4-Trimethylbenzene	1.253	1.161	7.3	93	0.00
75 T	1,3-Dichlorobenzene	0.742	0.662	10.8	93	0.00
76 T	1,4-Dichlorobenzene	0.710	0.662	6.8	92	0.00
77 T	1,2-Dichlorobenzene	0.710	0.642	9.6	92	-0.01
78 T	Hexachloro-1,3-Butadiene	0.592	0.510	13.9	95	0.00
79 T	Naphthalene	0.942	1.109	-17.7	92	-0.02
80 T	Naphthalene,2-methyl-	0.225	0.251	-11.6	76	-0.01
81 T	1,2,4-Trichlorobenzene	0.595	0.597	-0.3	86	-0.01

(#) = Out of Range

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