

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033340.D
 Acq On : 15 Mar 2019 21:00
 Operator : SY/AP
 Sample : K1827-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON
 Sampling : 3
 Start Thrs: 0.001
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 0

Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.991	8	17	22	rBV	300567	398890	5.02%	0.773%
2	3.014	22	24	30	rVV	128043	148414	1.87%	0.288%
3	3.053	30	36	52	rVB4	374880	543084	6.83%	1.052%
4	3.239	83	94	108	rVB	977702	1232346	15.51%	2.388%
5	3.397	132	143	155	rVB	774247	979675	12.33%	1.898%
6	3.660	213	225	250	rBV	1820193	3788264	47.67%	7.340%
7	3.901	289	300	321	rBV	1071306	1985328	24.98%	3.847%
8	4.036	325	342	366	rVB	625378	1349320	16.98%	2.615%
9	4.191	379	390	399	rVV2	137296	197778	2.49%	0.383%
10	4.252	401	409	420	rVB2	91046	133057	1.67%	0.258%
11	4.413	450	459	472	rVB2	208048	346891	4.37%	0.672%
12	5.142	675	686	694	rBV4	55070	105914	1.33%	0.205%
13	5.194	694	702	713	rVB2	198603	328061	4.13%	0.636%
14	5.335	737	746	759	rBV2	77132	137704	1.73%	0.267%
15	5.461	775	785	796	rBV3	66242	111111	1.40%	0.215%
16	5.766	865	880	901	rBV4	1865110	3759822	47.31%	7.285%
17	7.007	1257	1266	1277	rVB5	55213	112188	1.41%	0.217%
18	7.297	1332	1356	1369	rBV	2275749	4334777	54.55%	8.399%
19	7.371	1369	1379	1392	rVV3	326858	664046	8.36%	1.287%
20	7.448	1392	1403	1418	rVB5	104433	228852	2.88%	0.443%
21	7.605	1437	1452	1469	rVB3	478621	1017261	12.80%	1.971%
22	7.994	1559	1573	1583	rVB5	72320	158699	2.00%	0.308%
23	8.252	1640	1653	1672	rVB3	496220	965228	12.15%	1.870%
24	8.882	1834	1849	1861	rBV4	151137	345336	4.35%	0.669%
25	8.956	1861	1872	1892	rVB3	308744	686256	8.64%	1.330%
26	9.773	2114	2126	2139	rBV7	54501	125666	1.58%	0.244%
27	9.953	2162	2182	2199	rBV	3786180	7947055	100.00%	15.399%
28	10.567	2363	2373	2386	rBV4	119680	244917	3.08%	0.475%
29	11.113	2530	2543	2559	rBV3	152428	342195	4.31%	0.663%
30	12.245	2873	2895	2915	rBV	2787667	6119799	77.01%	11.858%
31	12.866	3075	3088	3089	rBV4	94491	107982	1.36%	0.209%
32	12.872	3089	3090	3103	rVB3	95804	100416	1.26%	0.195%
33	13.129	3157	3170	3178	rBV3	81185	197596	2.49%	0.383%
34	14.303	3524	3535	3549	rVB5	94366	193420	2.43%	0.375%

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ClientSampleId :
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Integration Parameters: RTEINT.P

Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

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Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

35	14.583	3601	3622	3642	rBV3	2700195	6109407	76.88%	11.838%
36	15.483	3889	3902	3915	rVB6	94602	215580	2.71%	0.418%
37	16.181	4098	4119	4120	rBV10	74870	149206	1.88%	0.289%
38	16.190	4120	4122	4131	rVV5	71100	83269	1.05%	0.161%
39	16.264	4131	4145	4164	rVB5	104485	262051	3.30%	0.508%
40	16.467	4197	4208	4224	rBV8	54493	139504	1.76%	0.270%
41	16.933	4338	4353	4365	rBV6	93876	230403	2.90%	0.446%
42	17.132	4397	4415	4429	rBV6	103443	292556	3.68%	0.567%
43	17.274	4446	4459	4471	rBV5	192449	449550	5.66%	0.871%
44	18.119	4703	4722	4743	rBV4	892305	2231279	28.08%	4.324%
45	21.656	5798	5822	5844	rBV2	653003	2007942	25.27%	3.891%

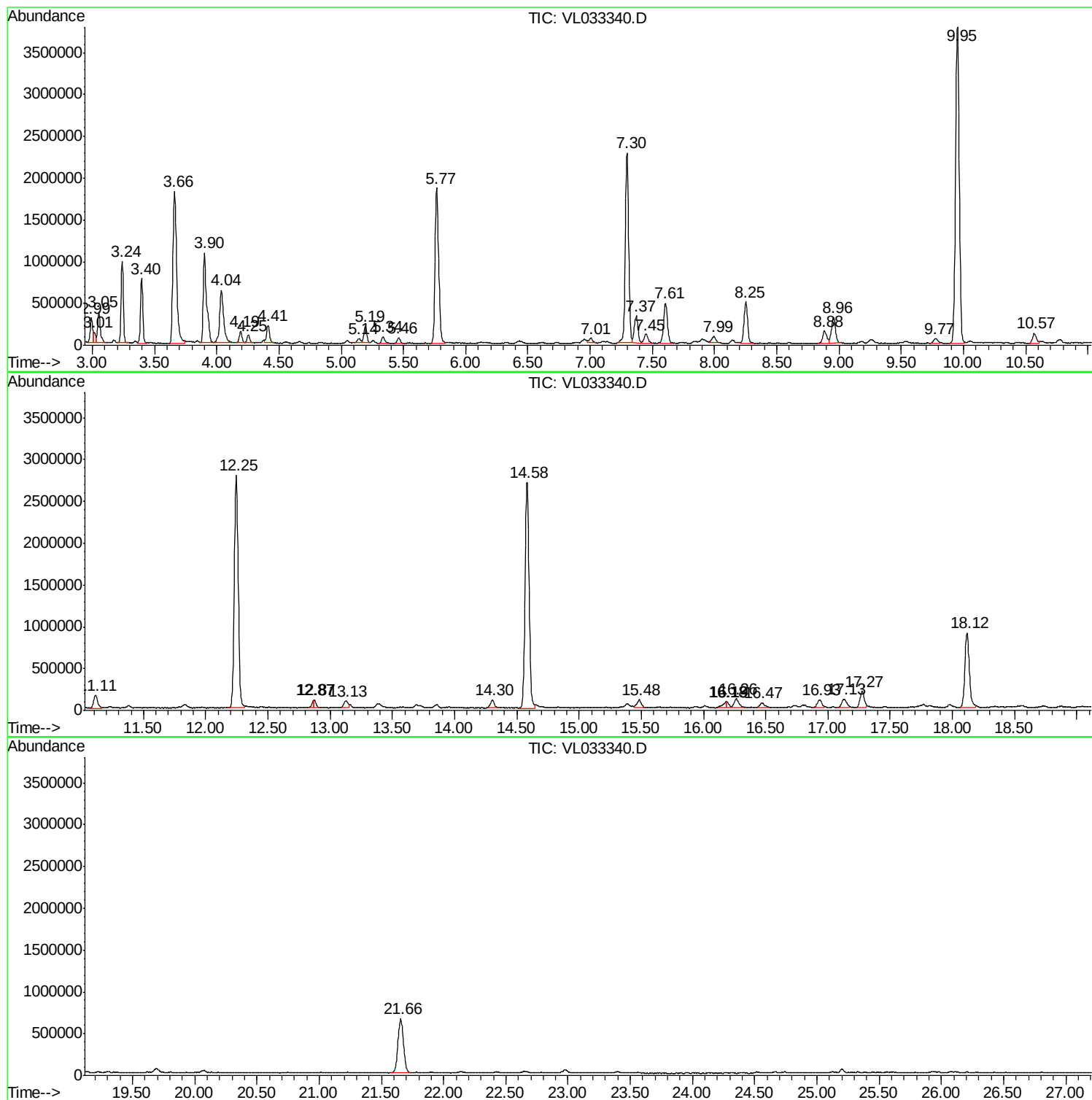
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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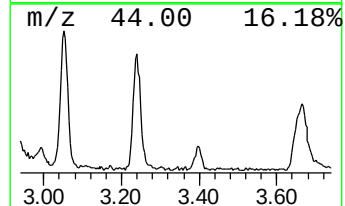
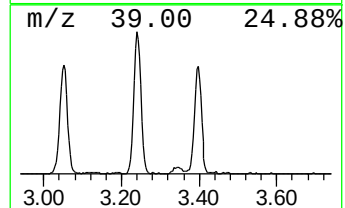
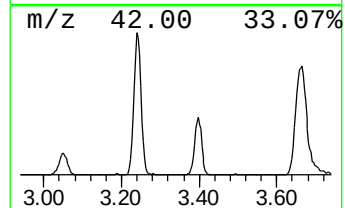
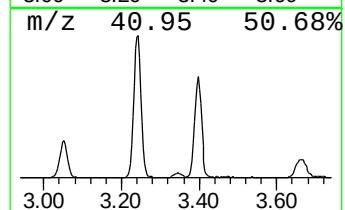
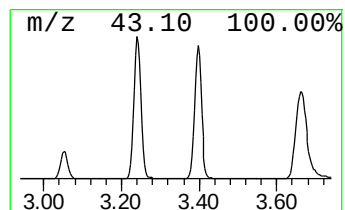
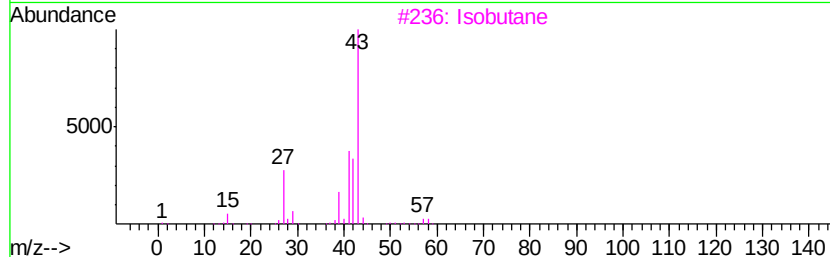
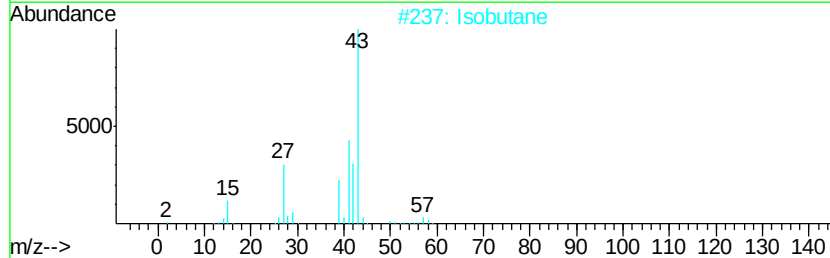
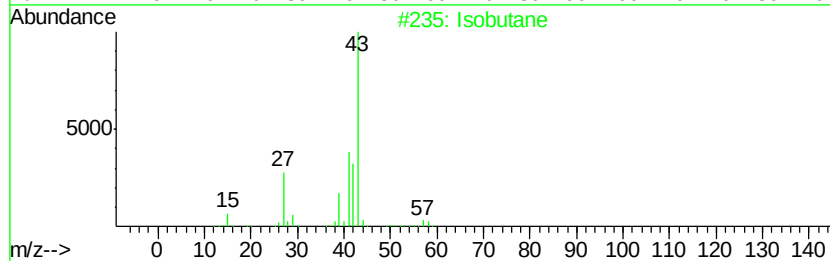
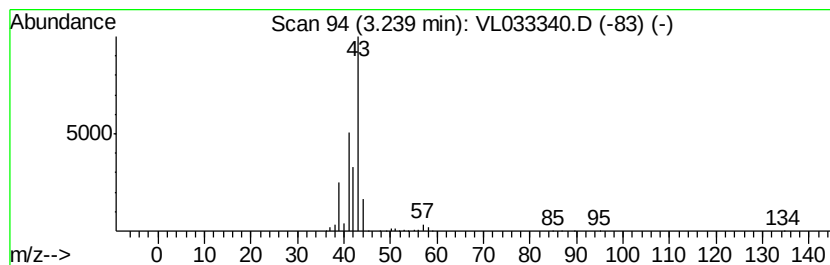
Instrument :
MSVOA_L
ClientSampleId :
A-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Isobutane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
3.24	3.28 ppbv	1232350	Bromochloromethane	5.77	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	59
2	Isobutane	58	C4H10	000075-28-5	59
3	Isobutane	58	C4H10	000075-28-5	38
4	Borane, trimethyl-	56	C3H9B	000593-90-8	7
5	Propene	42	C3H6	000115-07-1	5



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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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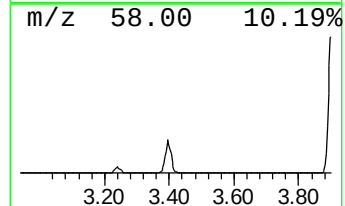
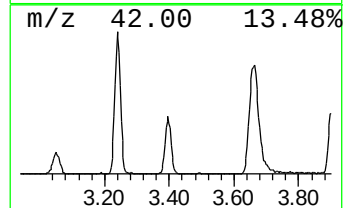
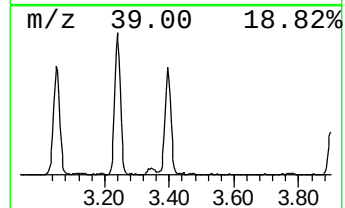
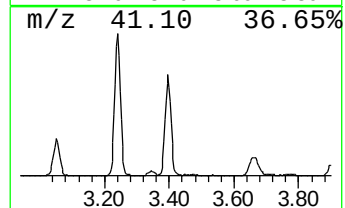
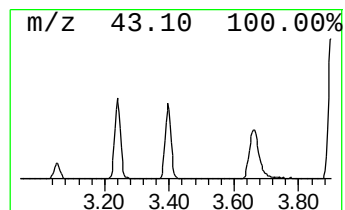
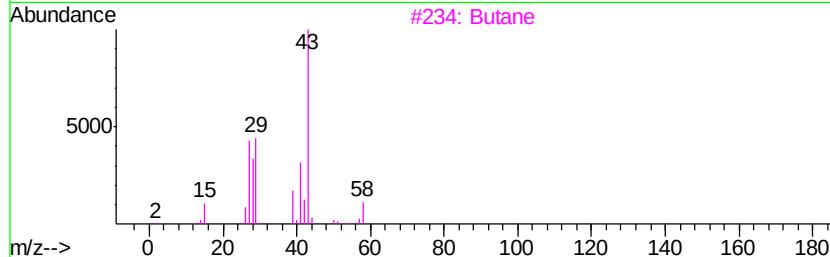
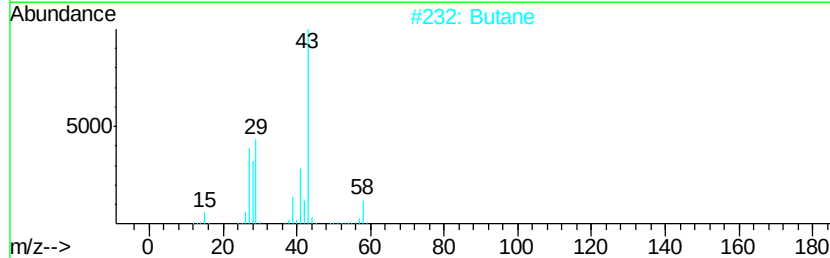
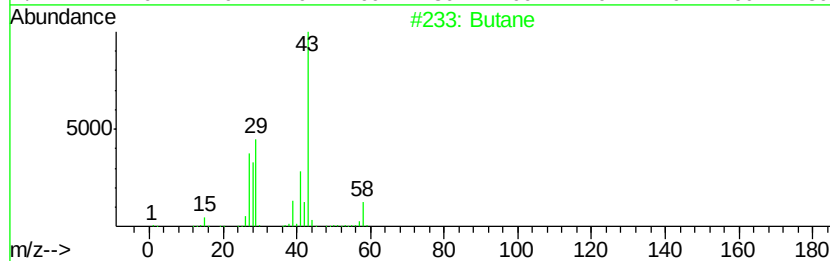
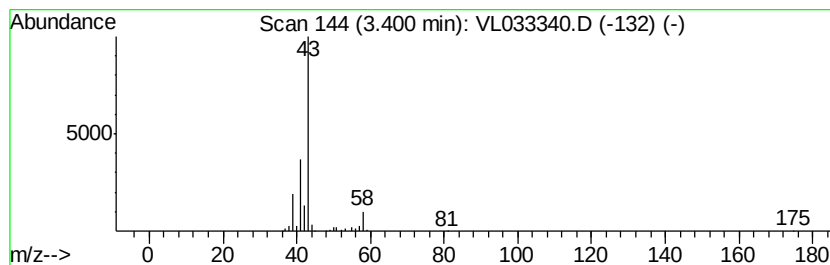
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Butane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.40	2.61 ppbv	979675	Bromochloromethane	5.77

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane		58	C4H10	000106-97-8	72
2	Butane		58	C4H10	000106-97-8	72
3	Butane		58	C4H10	000106-97-8	72
4	Isobutane		58	C4H10	000075-28-5	9
5	Isopropylsulfonyl chloride		142	C3H7ClO2S	010147-37-2	9



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Sample : K1827-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

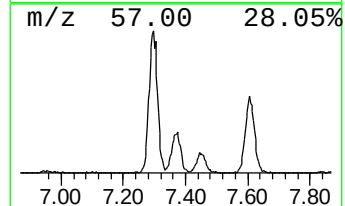
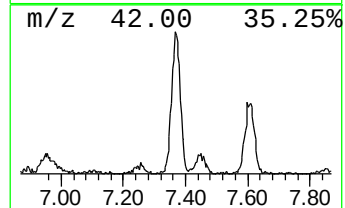
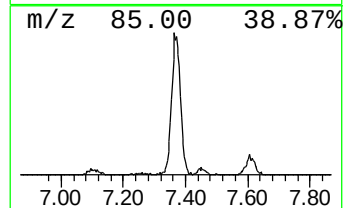
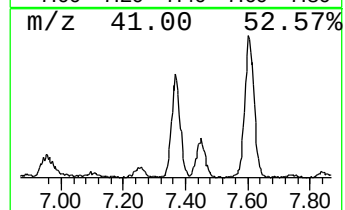
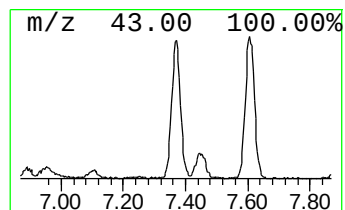
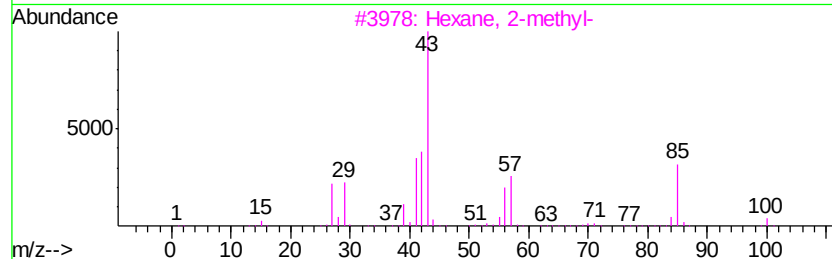
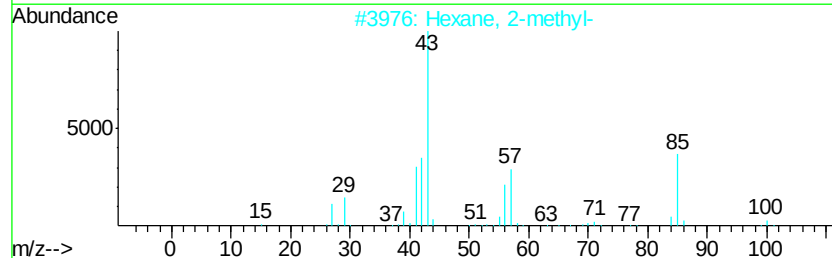
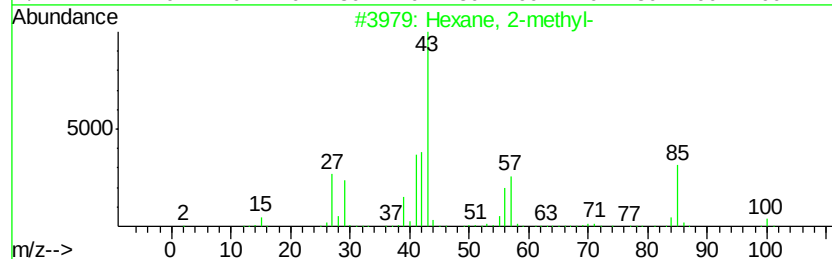
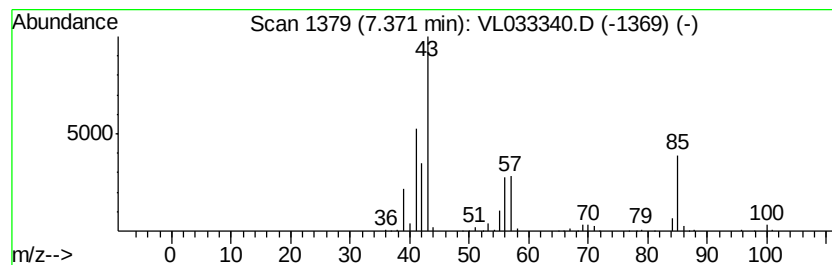
Instrument :
MSVOA_L
ClientSampled :
A-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Hexane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.37	1.53 ppbv	664046	1,4-Difluorobenzene	7.30
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Hexane, 2-methyl-	100 C7H16	000591-76-4	87
2	Hexane, 2-methyl-	100 C7H16	000591-76-4	83
3	Hexane, 2-methyl-	100 C7H16	000591-76-4	72
4	Pentane, 2,4-dimethyl-	100 C7H16	000108-08-7	64
5	Hexane, 2,4-dimethyl-	114 C8H18	000589-43-5	50



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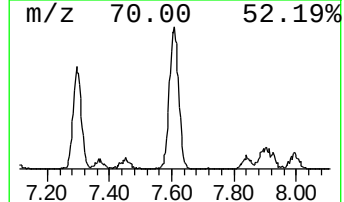
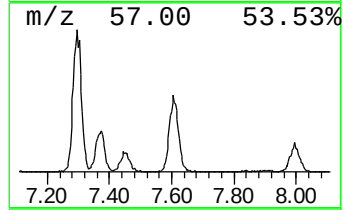
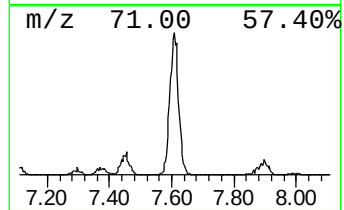
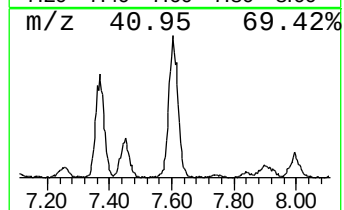
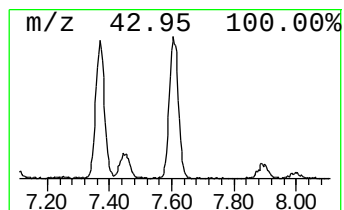
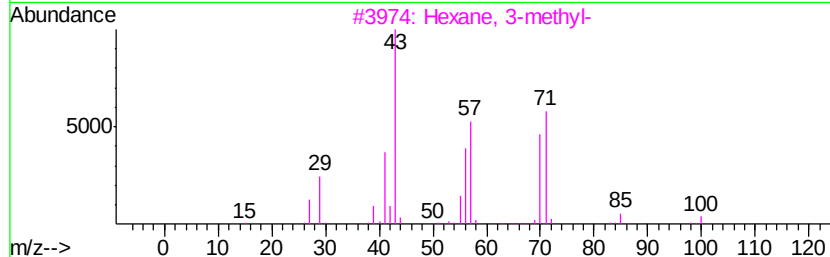
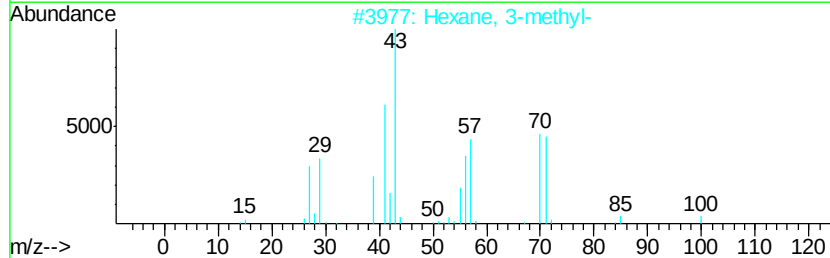
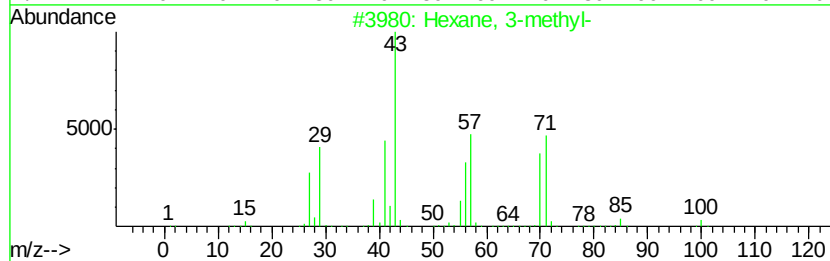
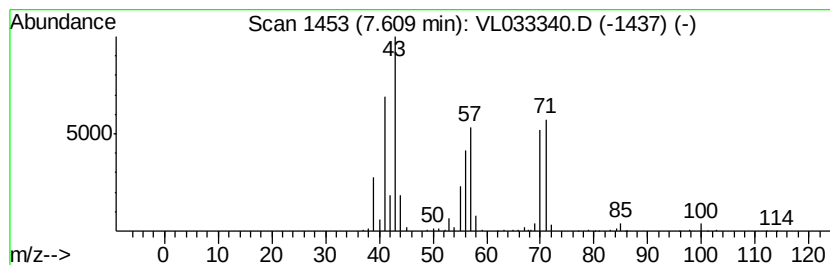
Instrument :
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Hexane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
7.61	2.35 ppbv	1017260	1,4-Difluorobenzene	7.30	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	80
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	74
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	72
4	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	64
5	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	59



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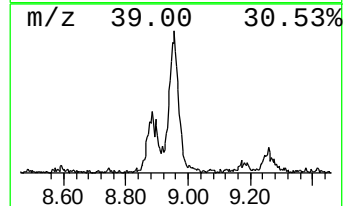
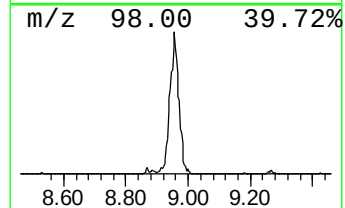
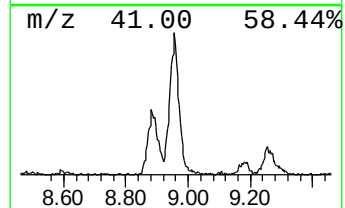
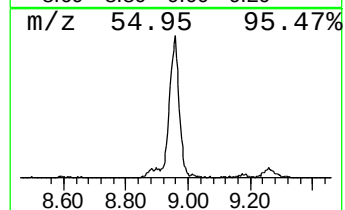
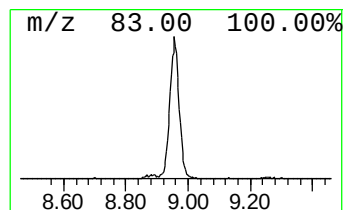
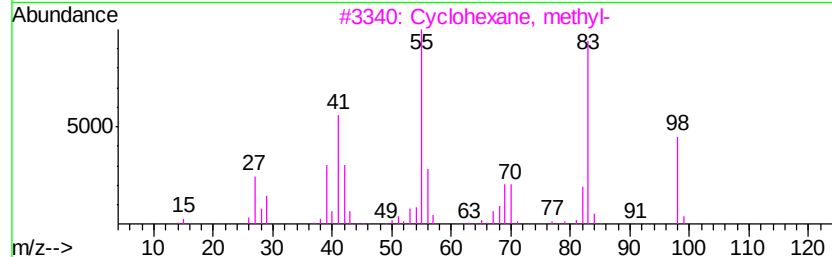
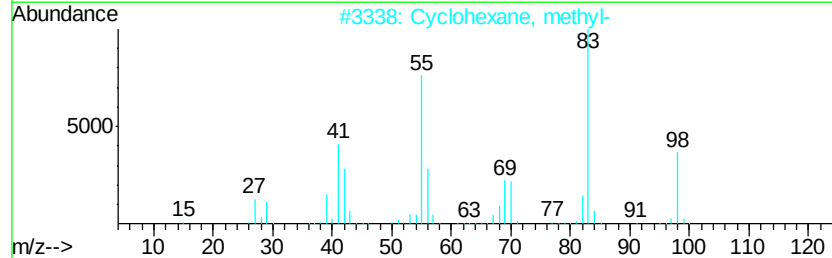
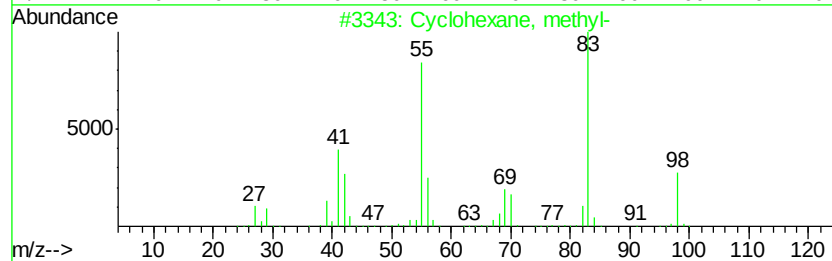
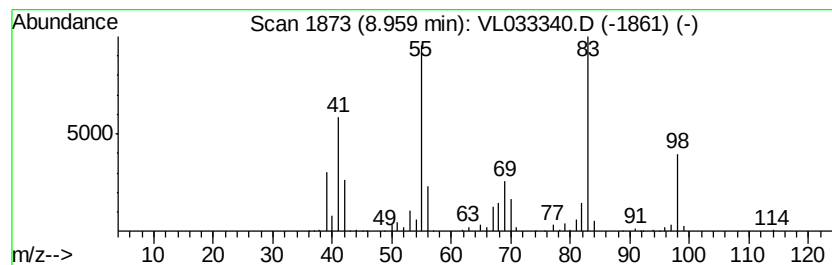
Instrument :
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ClientSampleId :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
8.96	1.58 ppbv	686256	1,4-Difluorobenzene	7.30	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	91
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	87
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	76
4	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	64
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
Data File : VL033340.D
Acq On : 15 Mar 2019 21:00
Operator : SY/AP
Sample : K1827-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-1

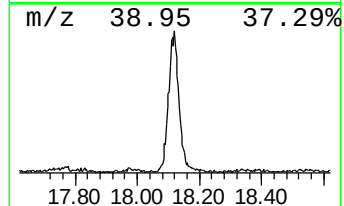
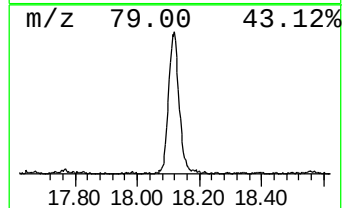
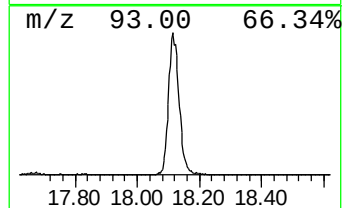
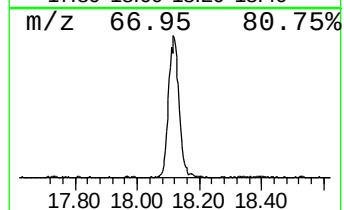
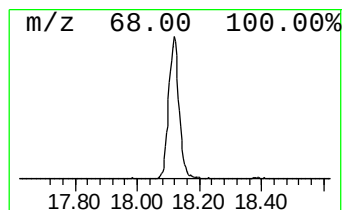
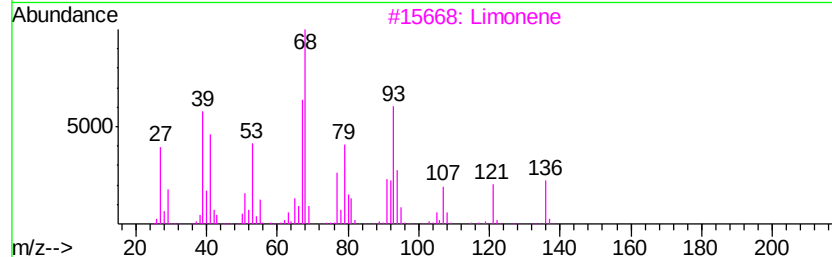
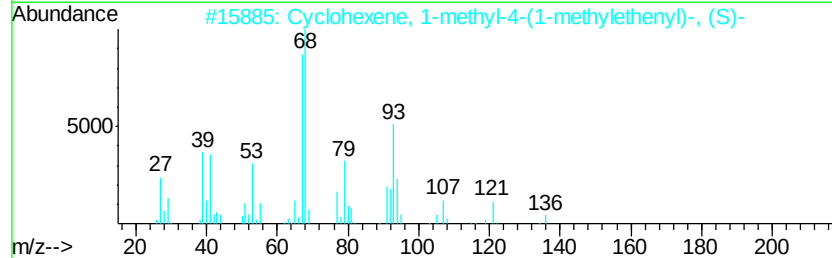
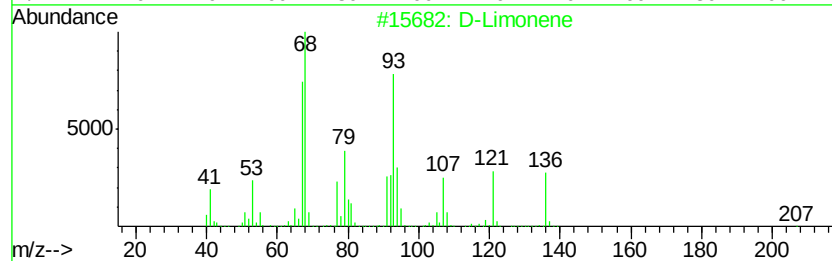
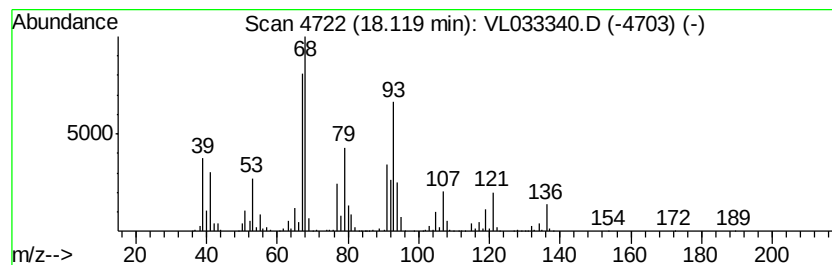
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	3.65 ppbv	2231280	Chlorobenzene-d5	12.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	D-Limonene	136	C10H16	005989-27-5	98
2		Cyclohexene, 1-methyl-4-(1-methyl-4-(1-methylethenyl)-, (S)-	136	C10H16	005989-54-8	93
3		Limonene	136	C10H16	000138-86-3	91
4		1,5-Cyclooctadiene, 1,5-dimethyl-	136	C10H16	003760-14-3	83
5		D-Limonene	136	C10H16	005989-27-5	76



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
Data File : VL033340.D
Acq On : 15 Mar 2019 21:00
Operator : SY/AP
Sample : K1827-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

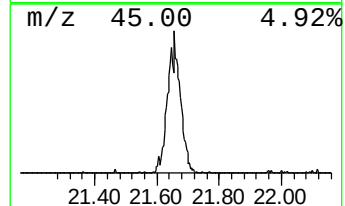
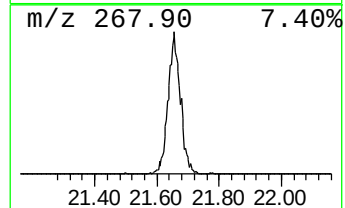
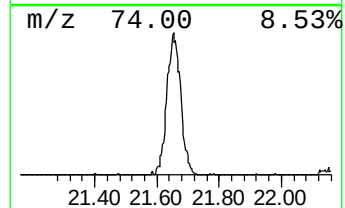
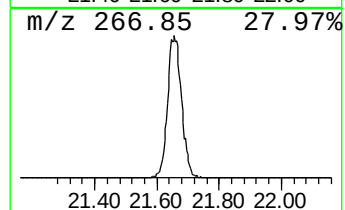
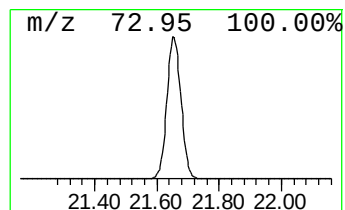
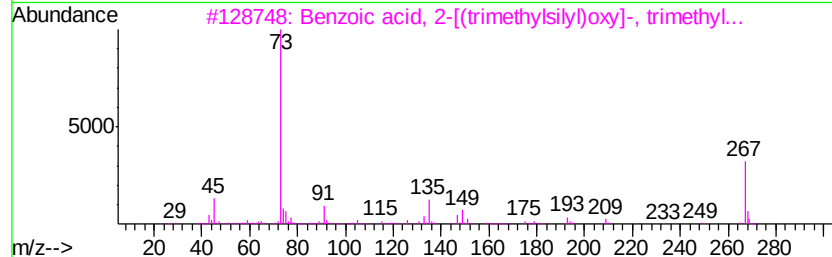
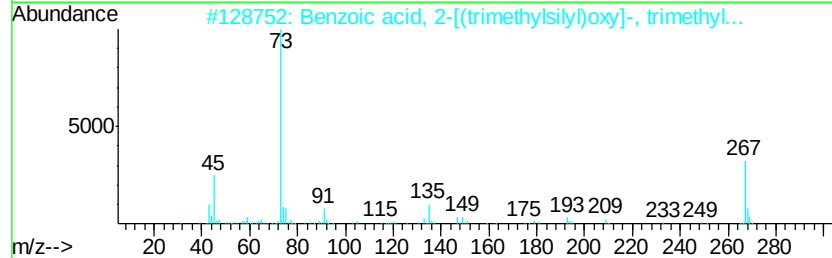
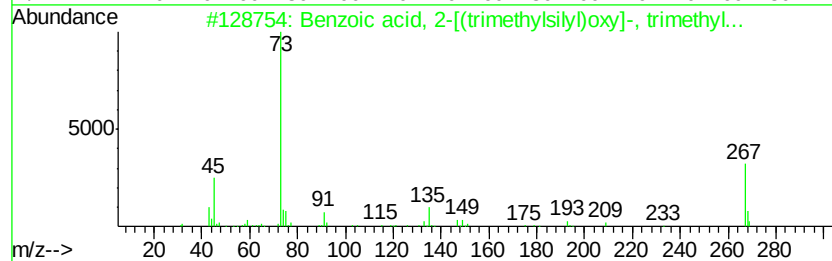
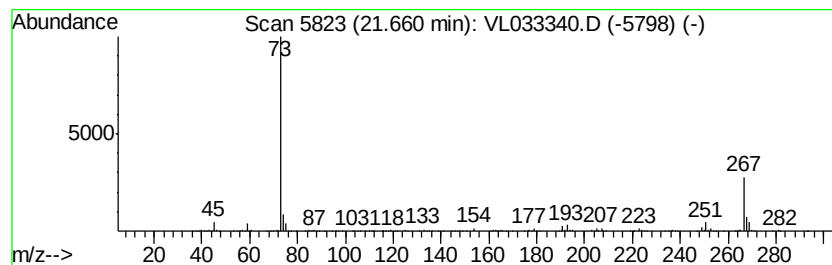
Instrument :
MSVOA_L
ClientSampleId :
A-1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Benzoic acid, 2-[(trimethyl... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.		
21.66	3.28 ppbv	2007940	Chlorobenzene-d5	12.25		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	59	
2	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	38	
3	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	38	
4	1-Boraindane, 3-methyl-1-[1-(tri...	266	C17H23BSi	190316-36-0	32	
5	1-(3-Chlorophenyl)piperazine, 4-...	268	C13H21ClN2Si	1000373-99-3	22	



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
Data File : VL033340.D
Acq On : 15 Mar 2019 21:00
Operator : SY/AP
Sample : K1827-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Isobutane	3.24	3.3	ppbv	1232350	1	5.77	3759820	10.0
Butane	3.40	2.6	ppbv	979675	1	5.77	3759820	10.0
Hexane, 2-methyl-	7.37	1.5	ppbv	664046	2	7.30	4334780	10.0
Hexane, 3-methyl-	7.61	2.4	ppbv	1017260	2	7.30	4334780	10.0
Cyclohexane, methyl-	8.96	1.6	ppbv	686256	2	7.30	4334780	10.0
D-Limonene	18.12	3.6	ppbv	2231280	3	12.25	6119800	10.0
Benzoic acid, 2-[...]	21.66	3.3	ppbv	2007940	3	12.25	6119800	10.0