

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033349.D
 Acq On : 16 Mar 2019 3:04
 Operator : SY/AP
 Sample : K1827-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-3

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	7	17	21	rBV2	253847	337135	2.56%	0.651%
2	3.049	28	35	50	rVB5	336778	499563	3.80%	0.964%
3	3.236	83	93	104	rBV	940287	1195553	9.08%	2.308%
4	3.393	133	142	154	rVB	687034	877686	6.67%	1.694%
5	3.657	208	224	251	rBV	1805840	3744448	28.45%	7.229%
6	3.898	289	299	305	rBV	708140	1087604	8.26%	2.100%
7	3.921	305	306	321	rVB	397464	428591	3.26%	0.827%
8	4.033	321	341	364	rBV	608220	1303412	9.90%	2.516%
9	4.191	380	390	398	rBV2	179875	256945	1.95%	0.496%
10	4.409	439	458	468	rBV2	243751	422607	3.21%	0.816%
11	5.191	692	701	712	rVB	209046	348963	2.65%	0.674%
12	5.763	866	879	899	rBV5	1879038	3782688	28.74%	7.303%
13	7.294	1334	1355	1368	rBV2	2235880	4221163	32.07%	8.149%
14	7.364	1368	1377	1390	rVB2	170366	332970	2.53%	0.643%
15	7.602	1438	1451	1466	rVB4	251917	535168	4.07%	1.033%
16	7.991	1558	1572	1583	rVB5	71676	169167	1.29%	0.327%
17	8.248	1639	1652	1665	rBV3	328858	645458	4.90%	1.246%
18	8.875	1837	1847	1858	rBV2	196816	405685	3.08%	0.783%
19	8.949	1861	1870	1884	rVB3	240177	509755	3.87%	0.984%
20	9.776	2113	2127	2137	rBV4	57813	134144	1.02%	0.259%
21	9.949	2161	2181	2200	rBV	6205906	13161238	100.00%	25.408%
22	10.564	2360	2372	2386	rBV6	213326	468456	3.56%	0.904%
23	11.107	2528	2541	2556	rBV2	276724	602024	4.57%	1.162%
24	11.834	2751	2767	2778	rVB3	57368	142434	1.08%	0.275%
25	12.242	2873	2894	2916	rBV	2863021	6315230	47.98%	12.192%
26	12.866	3074	3088	3101	rBV2	203009	411087	3.12%	0.794%
27	13.123	3153	3168	3190	rVB4	162425	480973	3.65%	0.929%
28	13.380	3235	3248	3260	rBV9	64431	178027	1.35%	0.344%
29	14.576	3601	3620	3642	rBV3	2756370	6333300	48.12%	12.227%
30	15.483	3883	3902	3916	rVB7	142638	363065	2.76%	0.701%
31	17.126	4400	4413	4430	rBV4	133010	340010	2.58%	0.656%
32	18.113	4701	4720	4746	rBV4	679711	1764542	13.41%	3.407%

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Instrument :
MSVOA_L
ClientSampleId :
A-3

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

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

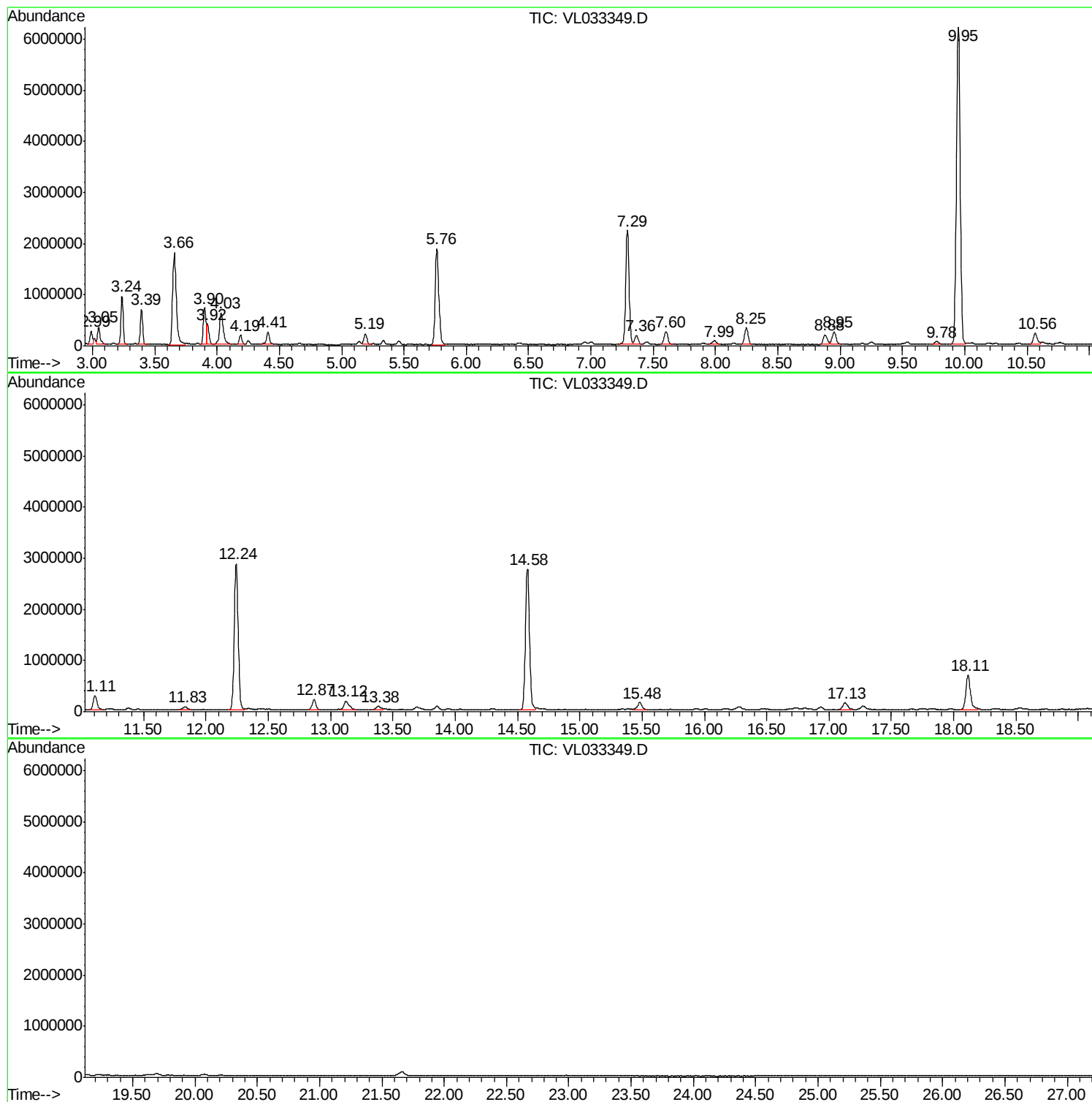
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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



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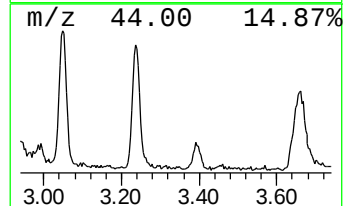
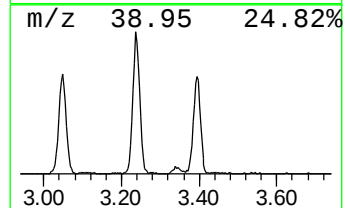
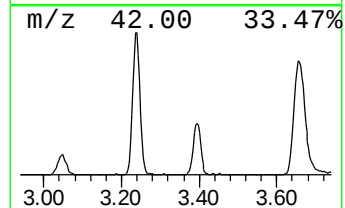
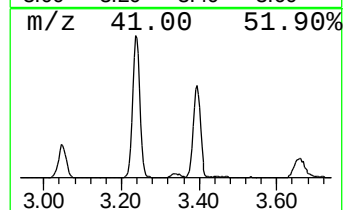
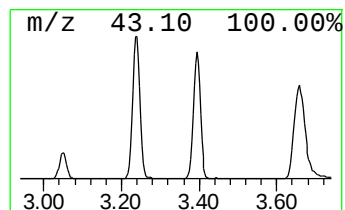
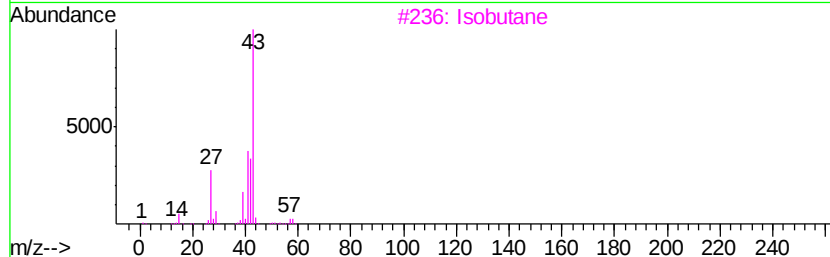
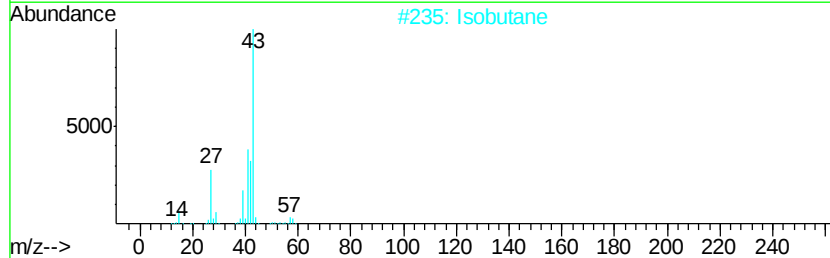
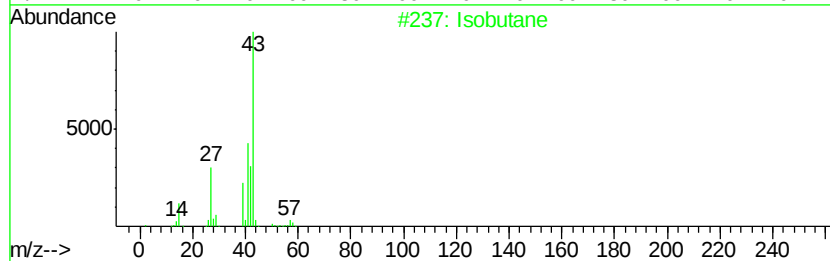
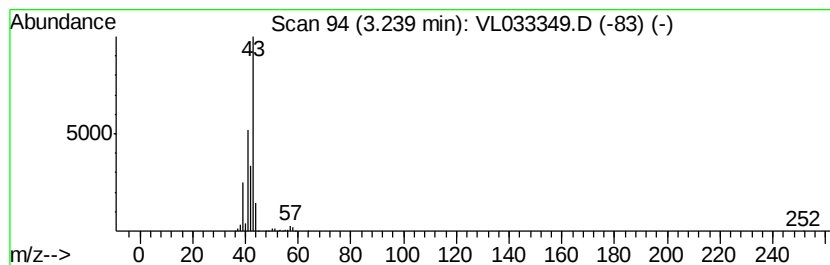
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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

Peak Number 1 Isobutane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.24	3.16 ppbv	1195550	Bromochloromethane	5.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Isobutane	58	C4H10	000075-28-5	59
2		Isobutane	58	C4H10	000075-28-5	38
3		Isobutane	58	C4H10	000075-28-5	38
4		Isobutane	58	C4H10	000075-28-5	9
5		Propene	42	C3H6	000115-07-1	5



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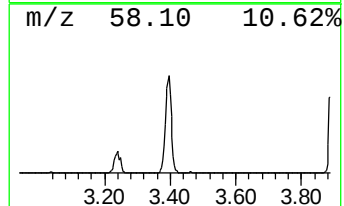
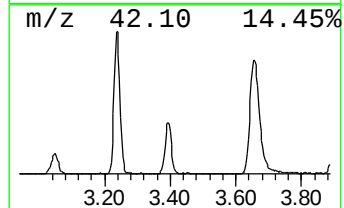
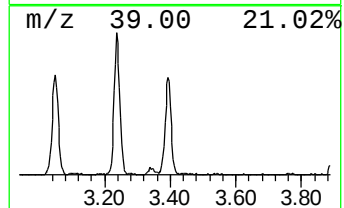
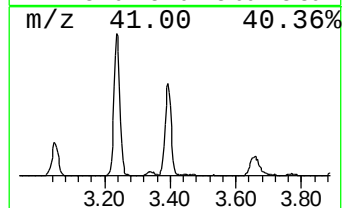
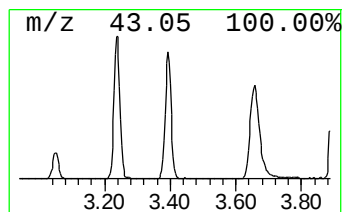
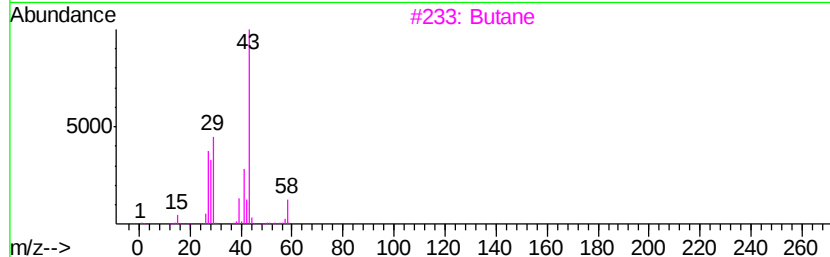
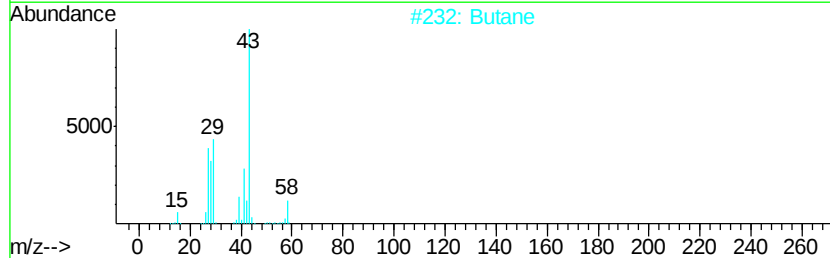
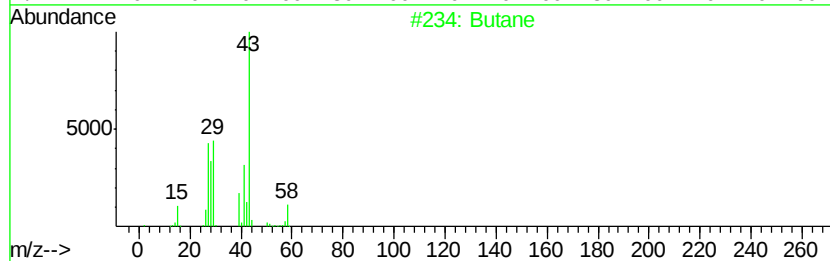
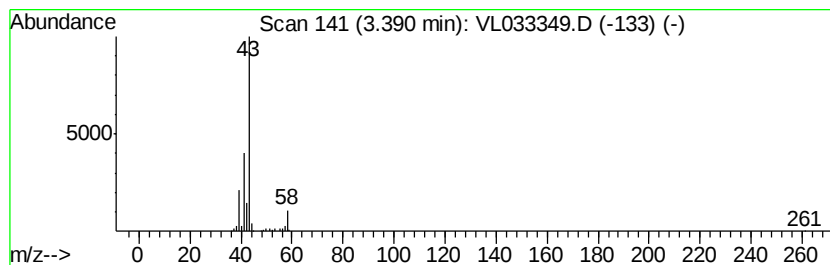
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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

Peak Number 2 Butane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.39	2.32 ppbv	877686	Bromochloromethane	5.76

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane		58	C4H10	000106-97-8	72
2	Butane		58	C4H10	000106-97-8	59
3	Butane		58	C4H10	000106-97-8	59
4	Isopropylsulfonyl chloride		142	C3H7ClO2S	010147-37-2	9
5	Propane, 1-nitro-		89	C3H7NO2	000108-03-2	9



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ALS Vial : 1 Sample Multiplier: 1

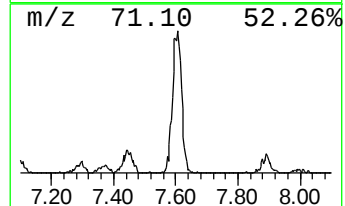
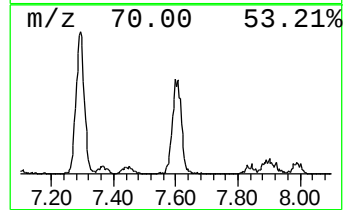
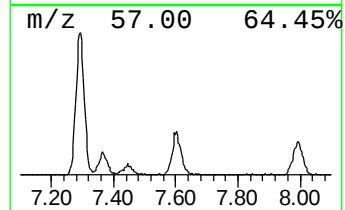
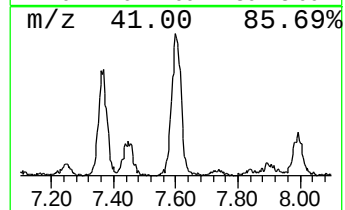
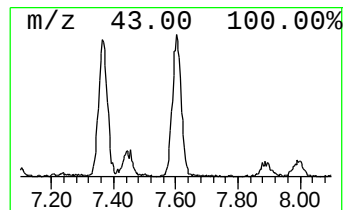
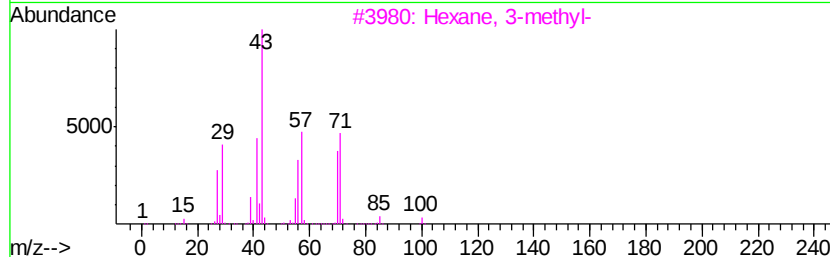
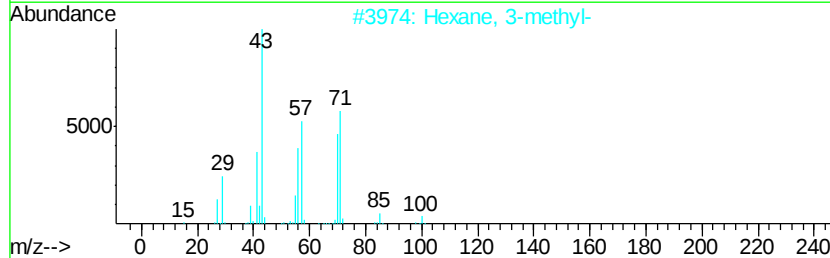
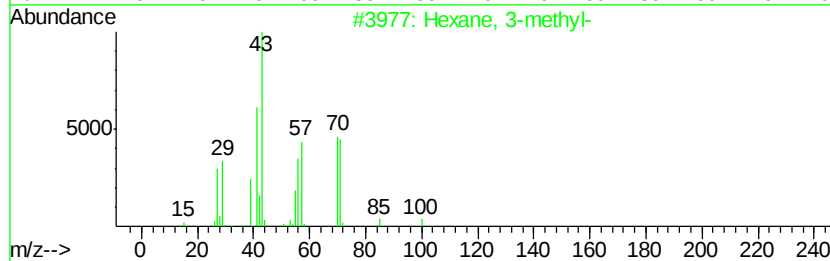
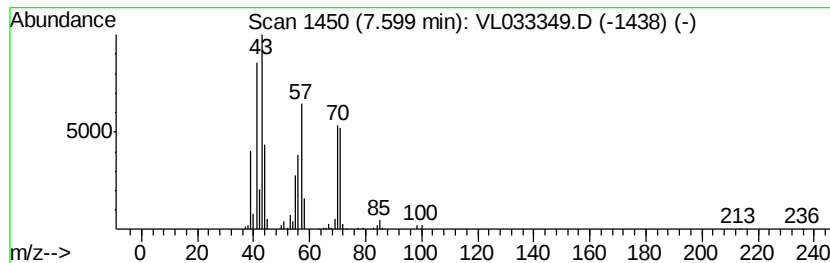
Instrument :
MSVOA_L
ClientSampleId :
A-3

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, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.60	1.27 ppbv	535168	1,4-Difluorobenzene	7.29
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Hexane, 3-methyl-	100 C7H16	000589-34-4	72
2	Hexane, 3-methyl-	100 C7H16	000589-34-4	64
3	Hexane, 3-methyl-	100 C7H16	000589-34-4	64
4	Heptane, 3,4-dimethyl-	128 C9H20	000922-28-1	50
5	Hexane, 2,3-dimethyl-	114 C8H18	000584-94-1	47



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

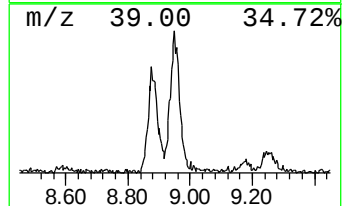
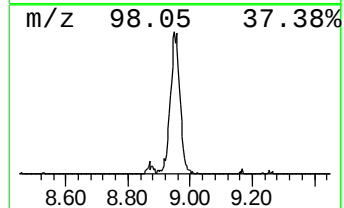
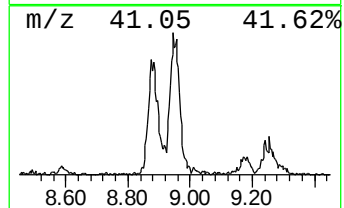
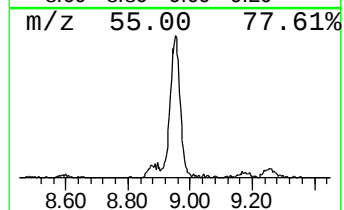
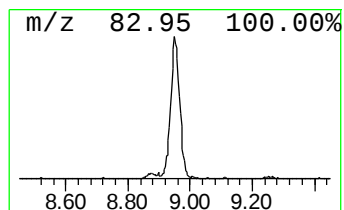
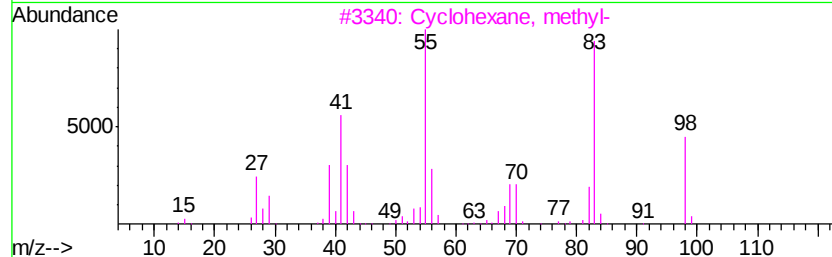
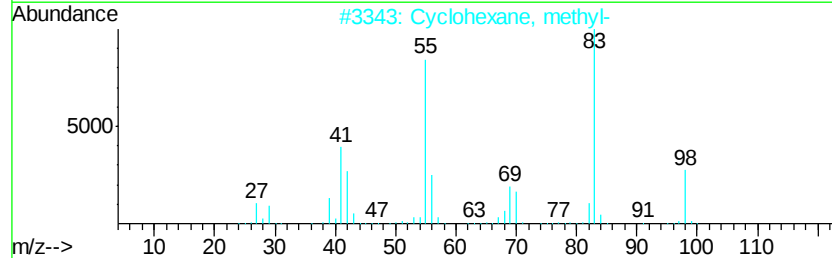
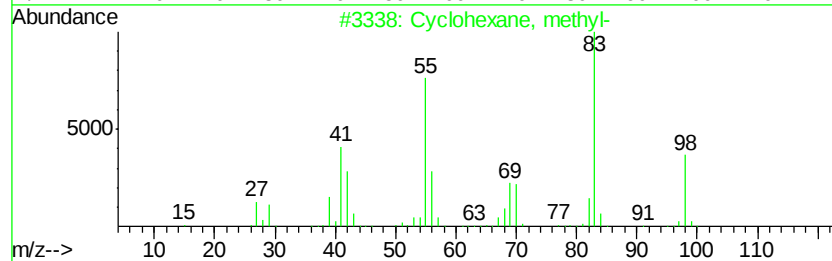
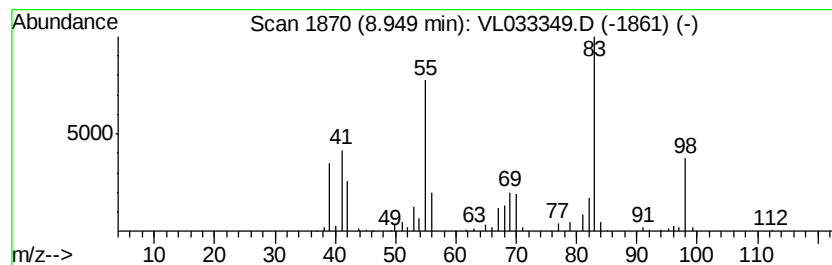
Instrument :
MSVOA_L
ClientSampled :
A-3

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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 4 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
8.95	1.21 ppbv	509755	1,4-Difluorobenzene	7.29	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cvclohexane, methyl-	98	C7H14	000108-87-2	91
2	Cvclohexane, methyl-	98	C7H14	000108-87-2	91
3	Cvclohexane, methyl-	98	C7H14	000108-87-2	72
4	Cvclohexane, methyl-	98	C7H14	000108-87-2	70
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	52



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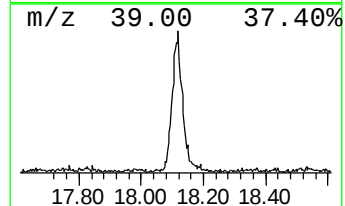
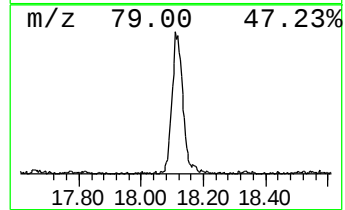
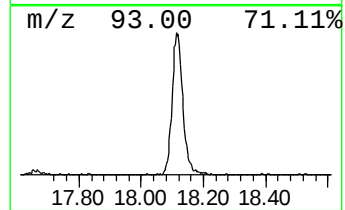
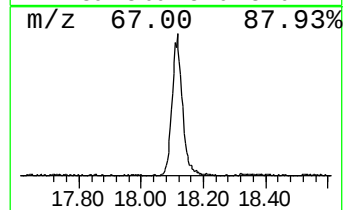
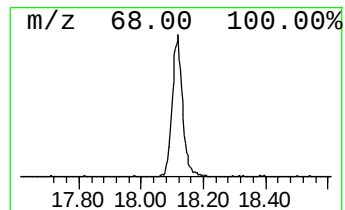
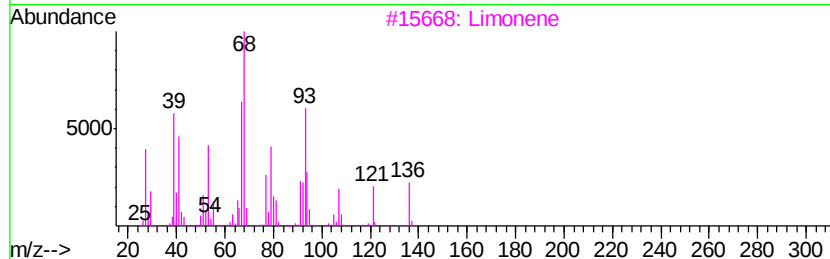
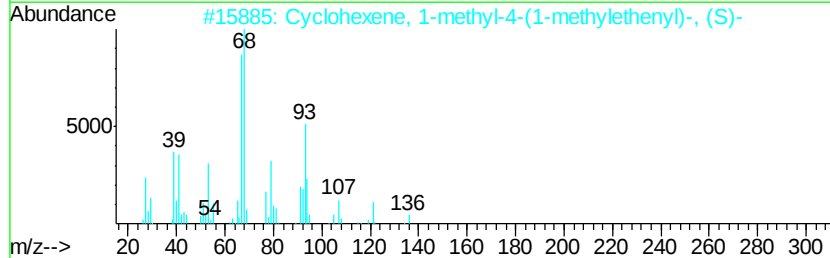
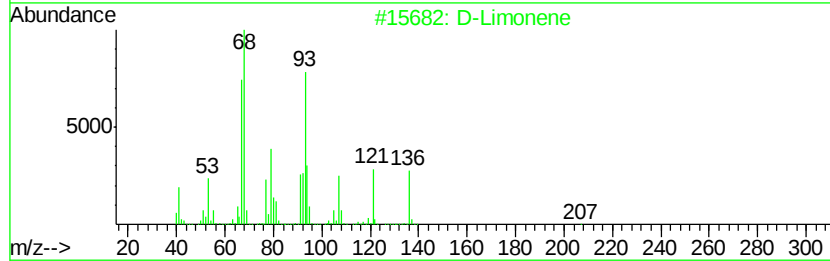
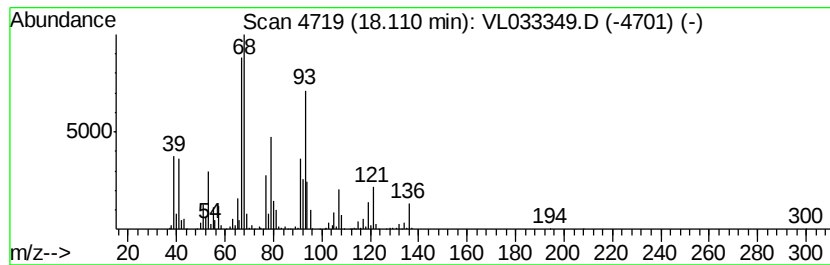
Instrument :
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ClientSampleId :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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

Peak Number 5 D-Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.11	2.79 ppbv	1764540	Chlorobenzene-d5	12.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	96
2	Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	94
3	Limonene	136	C10H16	000138-86-3	94
4	D-Limonene	136	C10H16	005989-27-5	93
5	Limonene	136	C10H16	000138-86-3	76



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A-3

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	3.2	ppbv	1195550	1	5.76	3782690	10.0
Butane	3.39	2.3	ppbv	877686	1	5.76	3782690	10.0
Hexane, 3-methyl-	7.60	1.3	ppbv	535168	2	7.29	4221160	10.0
Cyclohexane, methyl-	8.95	1.2	ppbv	509755	2	7.29	4221160	10.0
D-Limonene	18.11	2.8	ppbv	1764540	3	12.24	6315230	10.0