

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033347.D
 Acq On : 16 Mar 2019 1:44
 Operator : SY/AP
 Sample : K1827-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-2

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	285680	373044	4.13%	0.759%
2	3.017	21	25	29	rVV	110731	138179	1.53%	0.281%
3	3.052	29	36	51	rVB3	457221	653010	7.23%	1.328%
4	3.239	83	94	105	rBV	1576936	2002860	22.19%	4.074%
5	3.393	133	142	154	rVB	824318	1067507	11.83%	2.172%
6	3.657	212	224	250	rBV	1728216	3556237	39.40%	7.234%
7	3.901	289	300	305	rBV	872665	1310506	14.52%	2.666%
8	3.927	305	308	322	rVB2	573242	668385	7.40%	1.360%
9	4.033	324	341	367	rBV	536161	1163190	12.89%	2.366%
10	4.191	380	390	400	rVB3	214348	309845	3.43%	0.630%
11	4.252	400	409	419	rBV4	82248	119289	1.32%	0.243%
12	4.413	449	459	472	rVB	256392	415790	4.61%	0.846%
13	5.139	671	685	692	rBV5	69782	136685	1.51%	0.278%
14	5.187	692	700	712	rVB4	190181	334149	3.70%	0.680%
15	5.335	736	746	758	rVB2	84200	142293	1.58%	0.289%
16	5.461	772	785	797	rVB5	66768	136111	1.51%	0.277%
17	5.763	867	879	899	rBV3	2001954	3995815	44.27%	8.128%
18	7.293	1329	1355	1368	rBV	2614525	4907945	54.37%	9.984%
19	7.364	1368	1377	1389	rVV3	257785	526004	5.83%	1.070%
20	7.448	1391	1403	1414	rVB4	79726	173217	1.92%	0.352%
21	7.605	1439	1452	1468	rVB3	352958	723117	8.01%	1.471%
22	7.991	1556	1572	1587	rVB7	74129	184559	2.04%	0.375%
23	8.248	1639	1652	1666	rVB3	423776	813445	9.01%	1.655%
24	8.953	1859	1871	1884	rVB6	247242	531754	5.89%	1.082%
25	9.776	2113	2127	2139	rBV4	60489	136464	1.51%	0.278%
26	9.949	2163	2181	2203	rBV	4313647	9027021	100.00%	18.363%
27	12.245	2875	2895	2916	rBV	2892560	6293033	69.71%	12.802%
28	12.869	3074	3089	3101	rBV	126137	268582	2.98%	0.546%
29	13.123	3153	3168	3179	rBV3	120700	314269	3.48%	0.639%
30	14.579	3603	3621	3644	rBV2	2715281	6255657	69.30%	12.726%
31	15.480	3883	3901	3915	rBV3	124638	314611	3.49%	0.640%
32	17.132	4400	4415	4416	rBV6	83232	142650	1.58%	0.290%
33	17.271	4448	4458	4469	rBV6	53472	124864	1.38%	0.254%
34	18.116	4703	4721	4744	rBV3	708109	1790894	19.84%	3.643%

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ClientSampleId :
A-2

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

35	21.656	5817	5822	5834	rvB3	54096	107445	1.19%	0.219%
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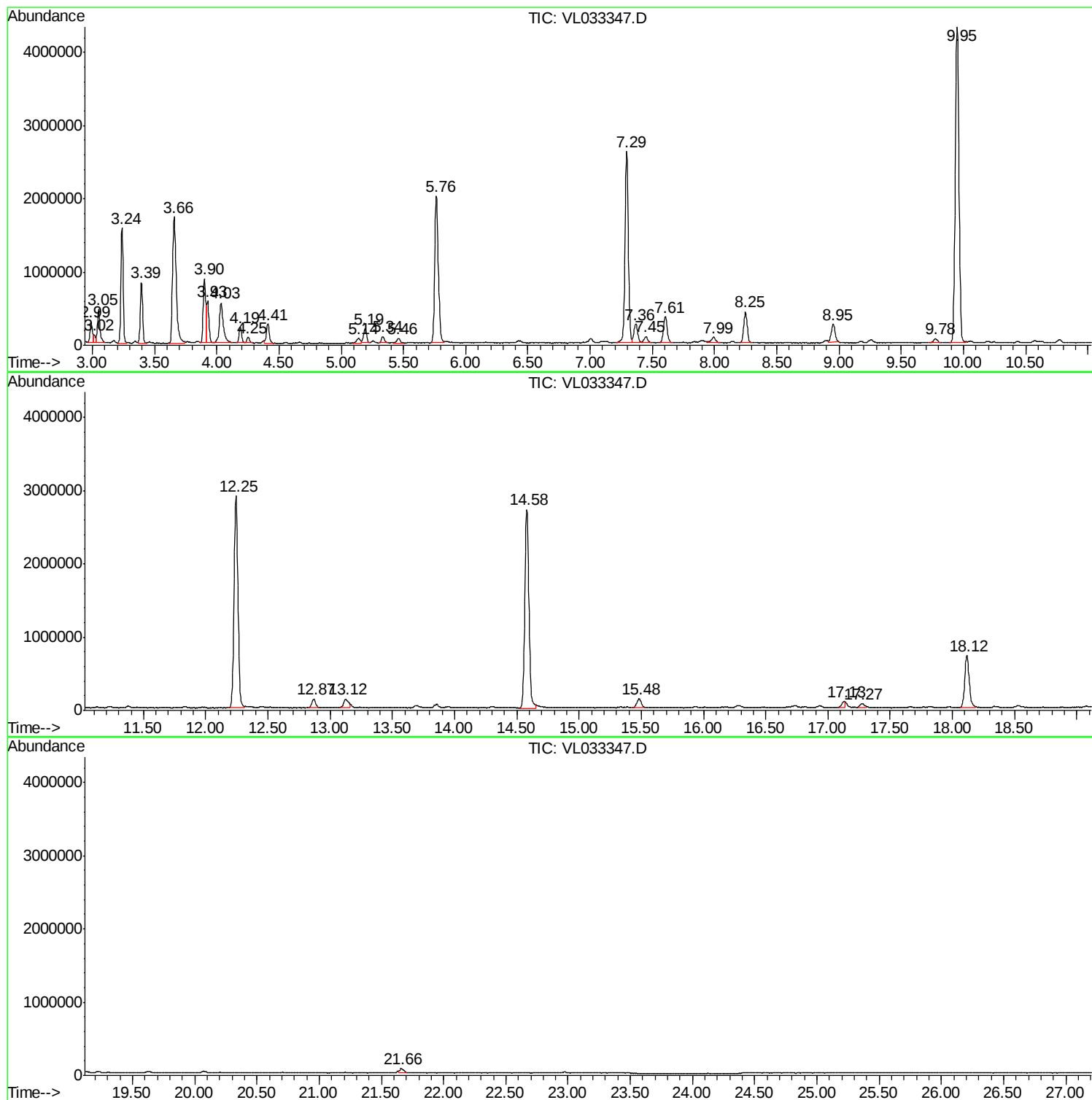
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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



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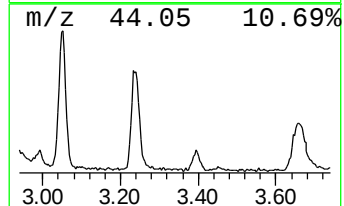
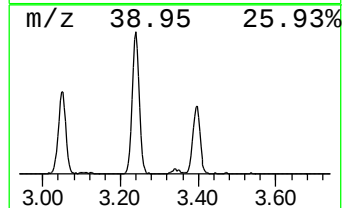
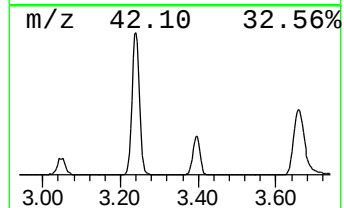
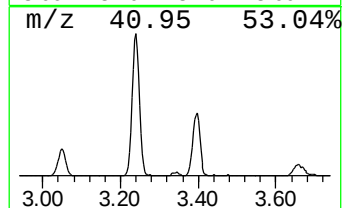
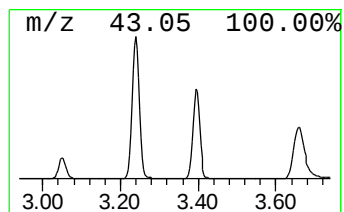
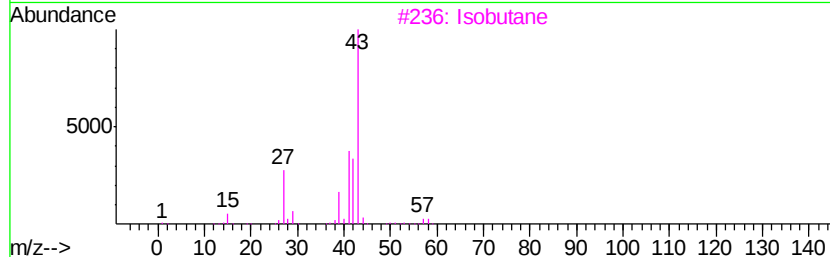
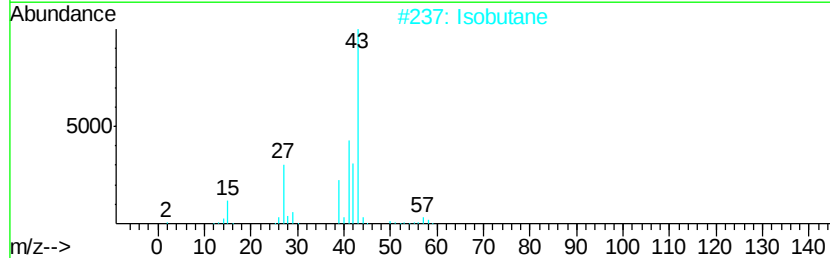
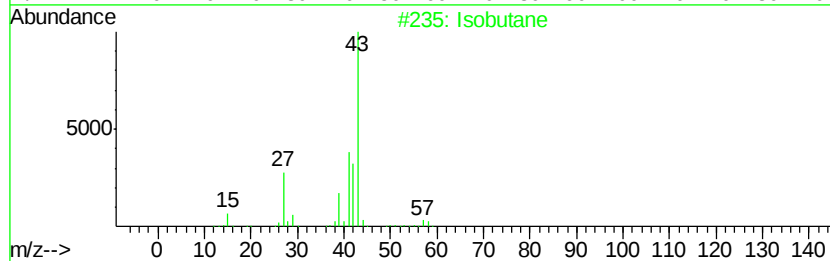
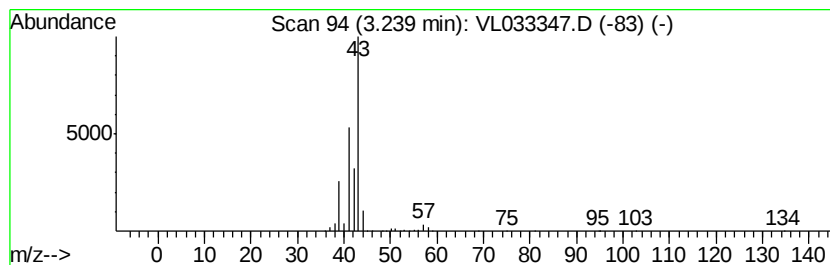
Instrument :
MSVOA_L
ClientSampleId :
A-2

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	5.01 ppbv	2002860	Bromochloromethane	5.76	
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	9
4	Propene	42	C3H6	000115-07-1	5
5	Propene	42	C3H6	000115-07-1	4



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Misc : 400ml/MSVOA L
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Instrument :
MSVOA_L
ClientSampled :
A-2

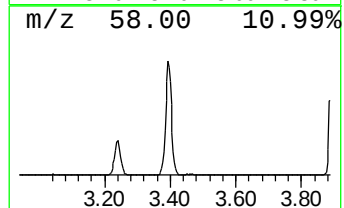
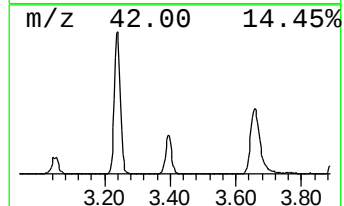
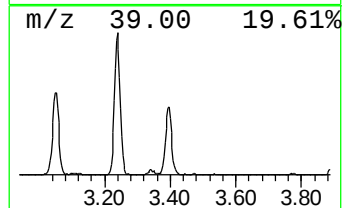
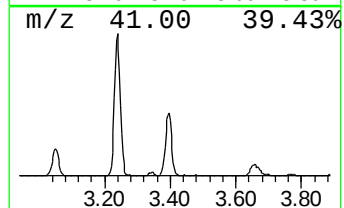
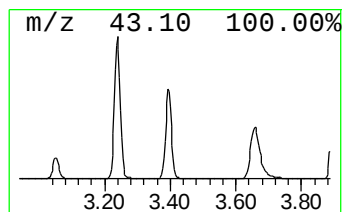
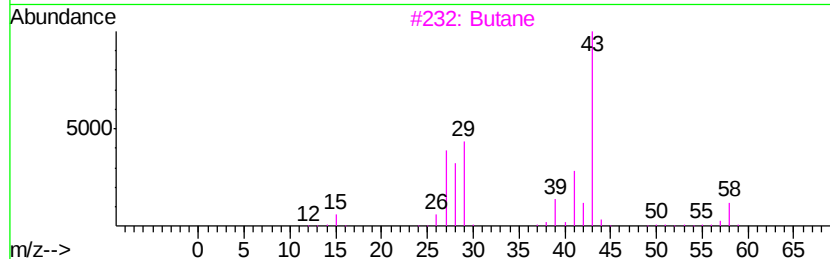
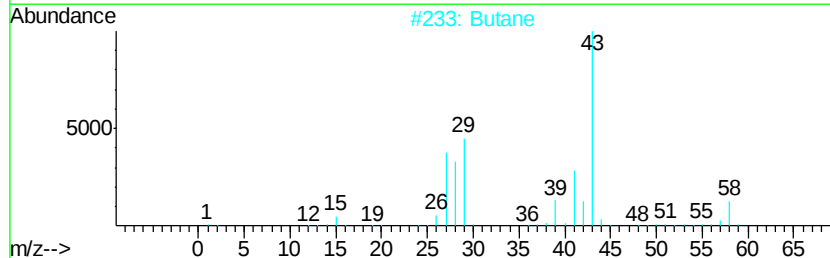
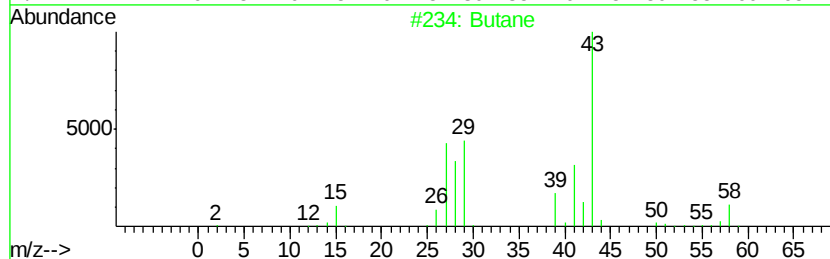
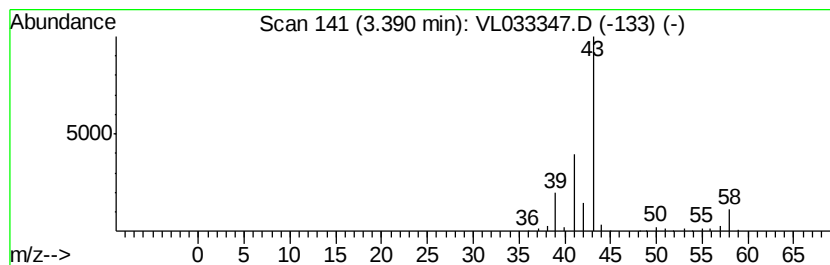
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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	2.67 ppbv	1067510	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	64
3	Butane		58	C4H10	000106-97-8	64
4	Isopropylsulfonyl chloride		142	C3H7ClO2S	010147-37-2	9
5	Isobutane		58	C4H10	000075-28-5	9



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

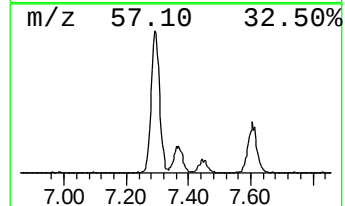
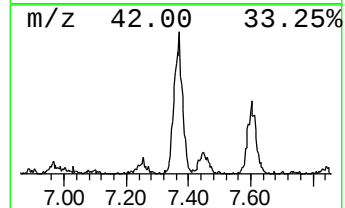
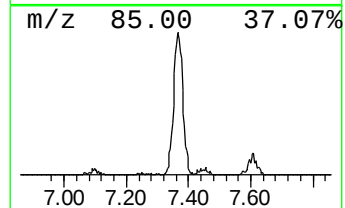
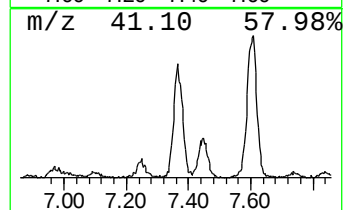
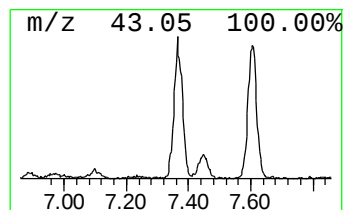
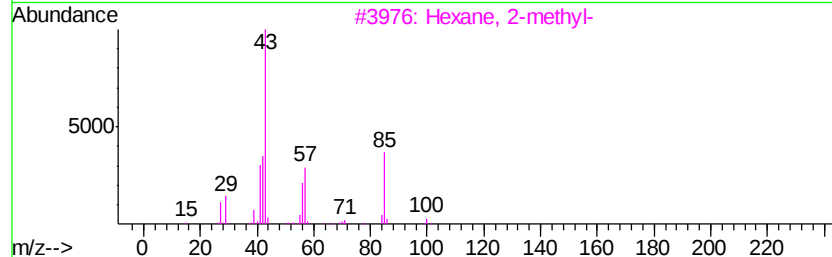
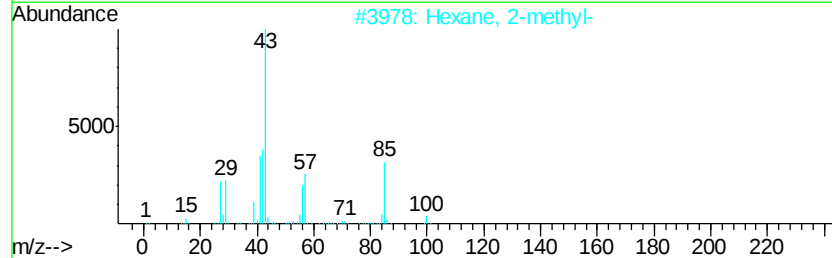
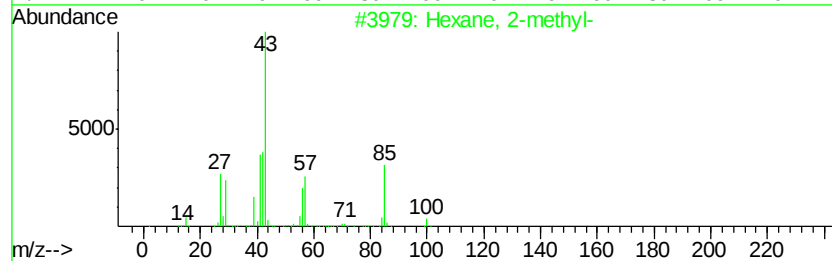
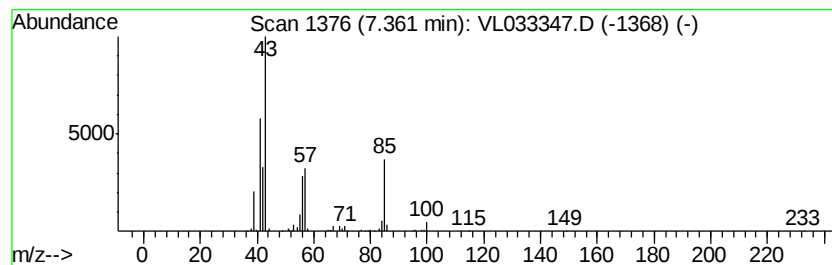
Instrument :
MSVOA_L
ClientSampled :
A-2

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 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.36	1.07 ppbv	526004	1,4-Difluorobenzene	7.29
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	87
3	Hexane, 2-methyl-	100 C7H16	000591-76-4	87
4	Pentane, 2,4-dimethyl-	100 C7H16	000108-08-7	59
5	Pentane, 2,4-dimethyl-	100 C7H16	000108-08-7	58



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

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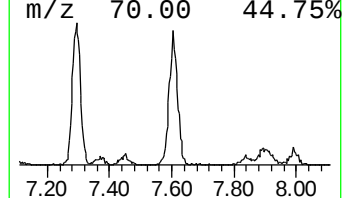
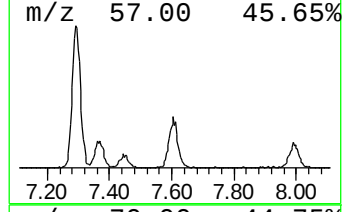
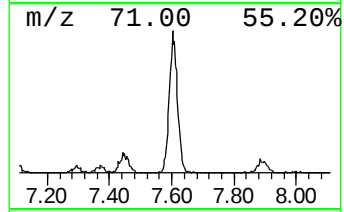
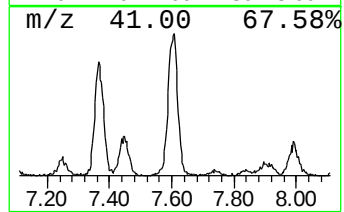
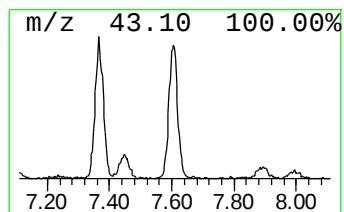
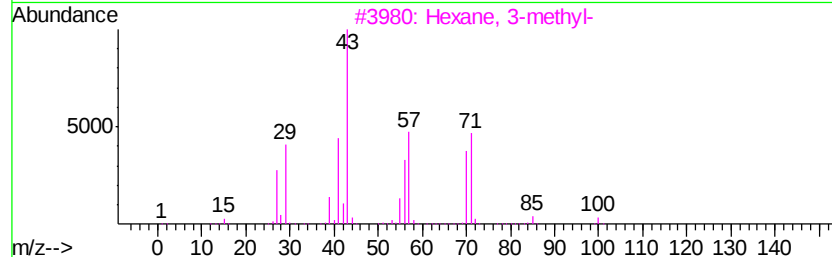
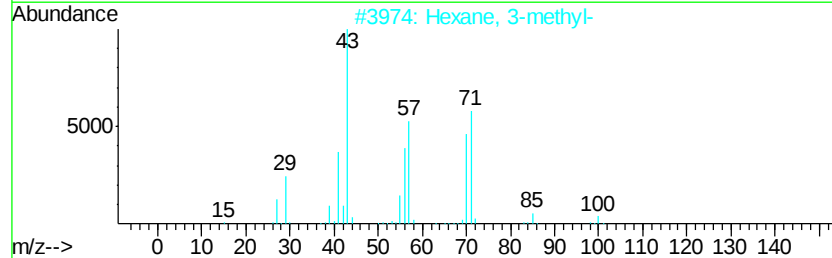
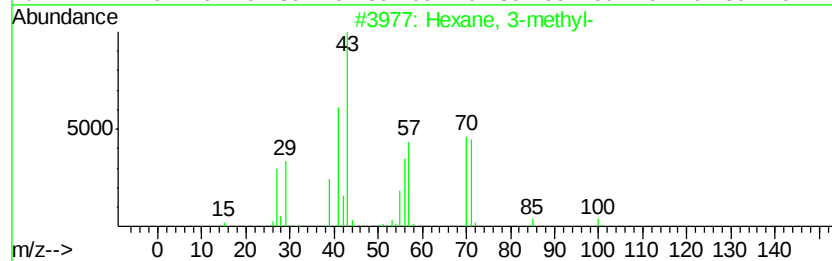
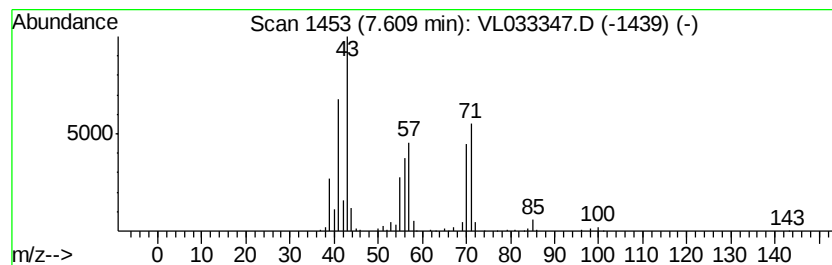
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.61	1.47 ppbv	723117	1,4-Difluorobenzene	7.29

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-		100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-		100	C7H16	000589-34-4	91
3	Hexane, 3-methyl-		100	C7H16	000589-34-4	90
4	Oxirane, 2-methyl-3-propyl-, cis-		100	C6H12O	006124-90-9	53
5	Hexane, 3-ethyl-4-methyl-		128	C9H20	003074-77-9	53



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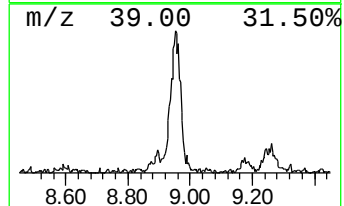
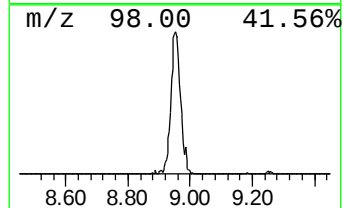
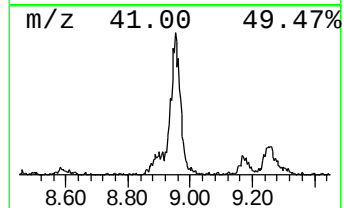
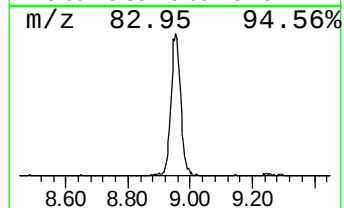
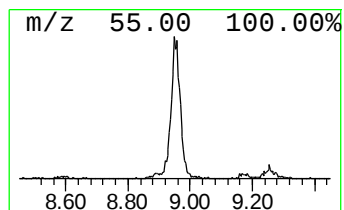
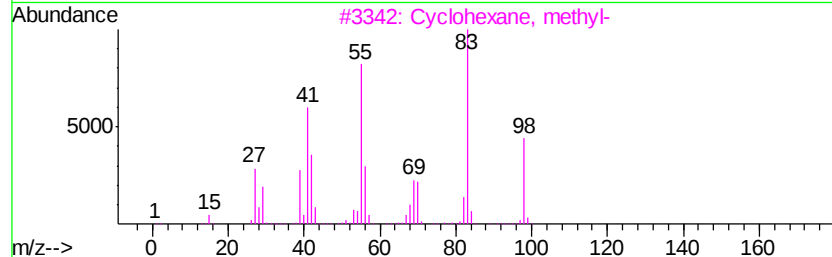
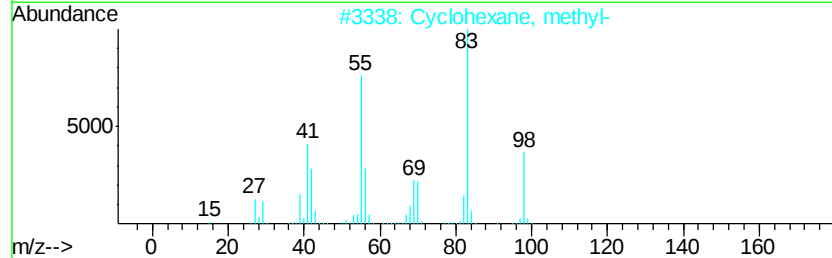
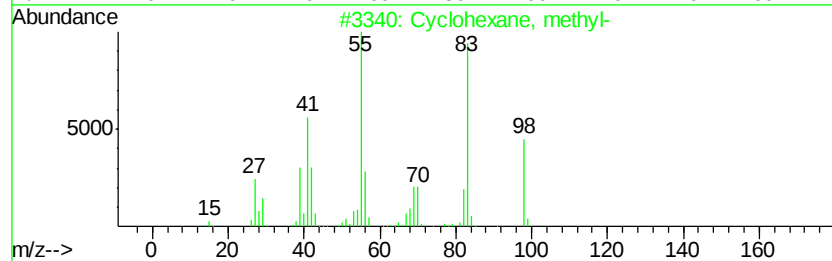
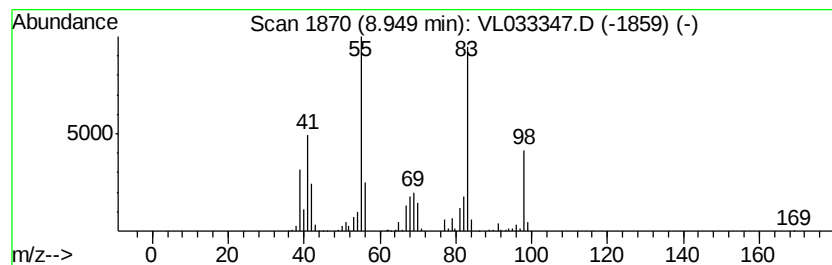
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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

Peak Number 5 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.95	1.08 ppbv	531754	1,4-Difluorobenzene	7.29

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, methyl-	98	C7H14	000108-87-2	93
2		Cyclohexane, methyl-	98	C7H14	000108-87-2	90
3		Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4		2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	68
5		2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
Data File : VL033347.D
Acq On : 16 Mar 2019 1:44
Operator : SY/AP
Sample : K1827-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-2

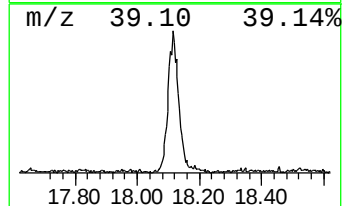
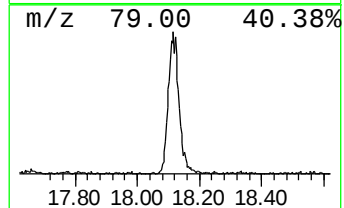
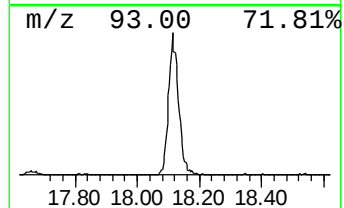
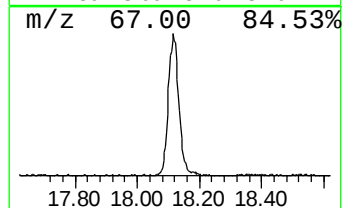
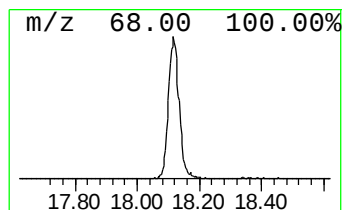
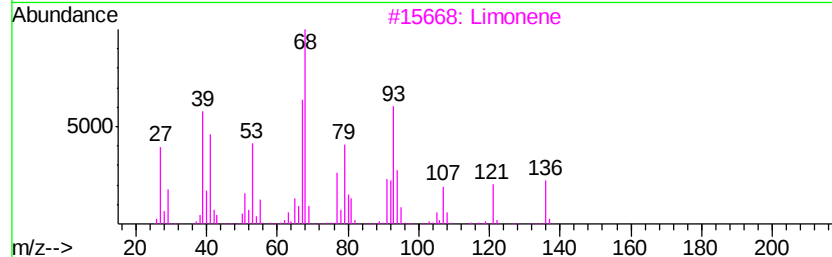
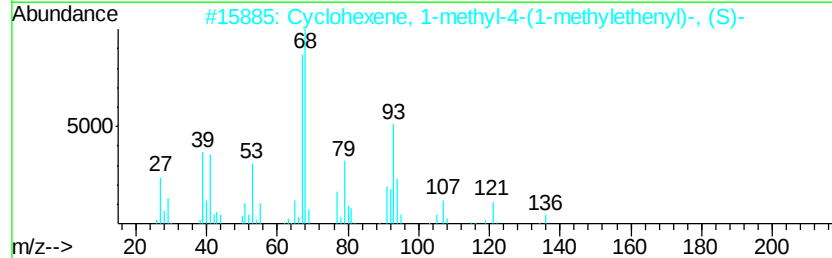
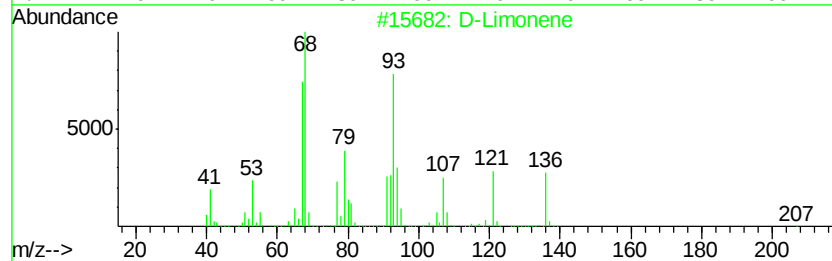
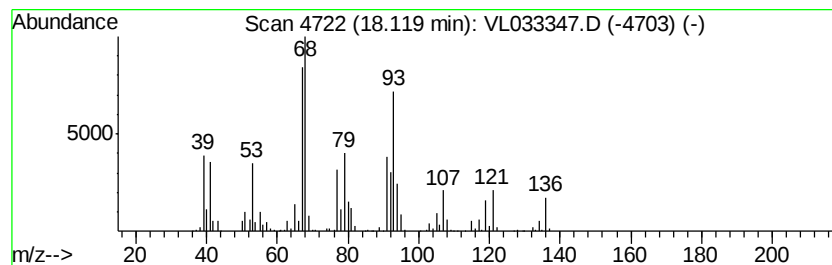
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019

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

Peak Number 6 D-Limonene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	2.85 ppbv	1790890	Chlorobenzene-d5	12.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	D-Limonene	136	C10H16	005989-27-5	96
2		Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	005989-54-8	91
3		Limonene	136	C10H16	000138-86-3	80
4		Limonene	136	C10H16	000138-86-3	76
5		D-Limonene	136	C10H16	005989-27-5	76



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
Data File : VL033347.D
Acq On : 16 Mar 2019 1:44
Operator : SY/AP
Sample : K1827-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-2

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	5.0	ppbv	2002860	1	5.76	3995820	10.0
Butane	3.39	2.7	ppbv	1067510	1	5.76	3995820	10.0
Hexane, 2-methyl-	7.36	1.1	ppbv	526004	2	7.29	4907950	10.0
Hexane, 3-methyl-	7.61	1.5	ppbv	723117	2	7.29	4907950	10.0
Cyclohexane, methyl-	8.95	1.1	ppbv	531754	2	7.29	4907950	10.0
D-Limonene	18.12	2.9	ppbv	1790890	3	12.24	6293030	10.0