

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032370.D
 Acq On : 16 Aug 2018 3:54
 Operator : SY/AP
 Sample : J4457-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG05-MIVI

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\VL081518AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.926	560	572	583	rBV	5089988	8622202	6.62%	0.872%
2	2.997	583	594	603	rVV	956049	1436132	1.10%	0.145%
3	3.071	603	617	631	rVV2	13629029	23892536	18.34%	2.416%
4	3.141	631	639	652	rVB	2022128	3014594	2.31%	0.305%
5	3.270	667	679	694	rVB3	3434843	5385928	4.13%	0.545%
6	3.383	703	714	723	rBV	8002082	12369894	9.49%	1.251%
7	3.431	723	729	739	rVB	4603169	6239402	4.79%	0.631%
8	3.498	739	750	760	rVB4	1177373	2036606	1.56%	0.206%
9	3.572	764	773	781	rBV	1082069	1417577	1.09%	0.143%
10	3.807	836	846	865	rVB5	650086	1443044	1.11%	0.146%
11	3.968	876	896	919	rBV3	30258139	96178738	73.81%	9.727%
12	4.112	919	941	948	rBV6	15853452	52535518	40.32%	5.313%
13	4.173	955	960	972	rVV4	2544959	5464425	4.19%	0.553%
14	4.228	972	977	1029	rVB3	12749712	59917576	45.98%	6.060%
15	4.479	1043	1055	1076	rVB2	2269014	5698752	4.37%	0.576%
16	4.691	1106	1121	1135	rVB5	769883	2009595	1.54%	0.203%
17	5.244	1240	1293	1294	rBV3	21392115	130305436	100.00%	13.178%
18	5.251	1294	1295	1331	rVV4	21777288	76734086	58.89%	7.760%
19	5.399	1331	1341	1362	rVV	2598703	5399996	4.14%	0.546%
20	5.511	1365	1376	1389	rVB	828965	1573699	1.21%	0.159%
21	5.604	1389	1405	1421	rVB5	1354406	3078216	2.36%	0.311%
22	5.839	1462	1478	1492	rVV3	5827341	11808832	9.06%	1.194%
23	7.083	1852	1865	1876	rVV	731573	1648664	1.27%	0.167%
24	7.160	1876	1889	1919	rVB	1355754	3720336	2.86%	0.376%
25	7.366	1940	1953	1965	rVV	4675056	9389344	7.21%	0.950%
26	7.427	1965	1972	1986	rVB3	651394	1360175	1.04%	0.138%
27	7.662	2025	2045	2072	rVB2	919004	2211197	1.70%	0.224%
28	7.929	2105	2128	2146	rBV2	9490179	26781882	20.55%	2.708%
29	8.312	2234	2247	2259	rBV3	698189	1477563	1.13%	0.149%
30	10.019	2761	2778	2798	rVB	4230172	9129741	7.01%	0.923%
31	10.379	2877	2890	2913	rVB5	818242	2287042	1.76%	0.231%
32	10.633	2956	2969	2987	rBV3	496387	1382559	1.06%	0.140%
33	10.826	2999	3029	3056	rBV2	15537190	55896311	42.90%	5.653%
34	11.906	3334	3365	3392	rBV2	24623955	88974709	68.28%	8.998%

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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

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35	12.038	3392	3406	3422	rVB3	583821	1412590	1.08%	0.143%
36	12.311	3473	3491	3513	rBV	5176079	12029249	9.23%	1.217%
37	12.688	3590	3608	3626	rBV3	628816	1618751	1.24%	0.164%
38	12.945	3671	3688	3709	rBV6	1464038	4392046	3.37%	0.444%
39	13.189	3749	3764	3783	rBV2	1228660	3685324	2.83%	0.373%
40	13.289	3783	3795	3812	rVB3	584828	1471947	1.13%	0.149%
41	13.897	3963	3984	4006	rVV5	906337	3228468	2.48%	0.326%
42	14.308	4091	4112	4123	rBV4	1242938	3517108	2.70%	0.356%
43	14.649	4200	4218	4237	rBV	4729881	11645886	8.94%	1.178%
44	15.543	4473	4496	4515	rVB3	2548327	6901589	5.30%	0.698%
45	16.093	4649	4667	4688	rVB6	467889	1672099	1.28%	0.169%
46	16.343	4724	4745	4758	rBV3	1225321	3901575	2.99%	0.395%
47	16.996	4935	4948	4964	rVB2	859256	2010948	1.54%	0.203%
48	17.202	4971	5012	5043	rBV3	37166658	128931257	98.95%	13.039%
49	17.340	5043	5055	5074	rVB3	959553	2743644	2.11%	0.277%
50	17.765	5166	5187	5200	rBV2	1002946	2785042	2.14%	0.282%
51	18.179	5292	5316	5348	rBV6	5678844	17676200	13.57%	1.788%
52	18.404	5364	5386	5401	rBV2	924342	2587259	1.99%	0.262%
53	18.591	5424	5444	5480	rVV2	2929744	9234548	7.09%	0.934%
54	19.138	5600	5614	5627	rBV3	1500705	4058203	3.11%	0.410%
55	19.202	5627	5634	5643	rVV5	598698	1311515	1.01%	0.133%
56	19.282	5643	5659	5676	rVB6	1829249	5261772	4.04%	0.532%
57	19.684	5762	5784	5792	rBV4	1080993	3133451	2.40%	0.317%
58	19.739	5792	5801	5817	rVB4	1432132	3481022	2.67%	0.352%
59	21.716	6388	6416	6444	rBV	7266954	27852846	21.38%	2.817%
60	22.703	6706	6723	6744	rBV6	505664	1451794	1.11%	0.147%

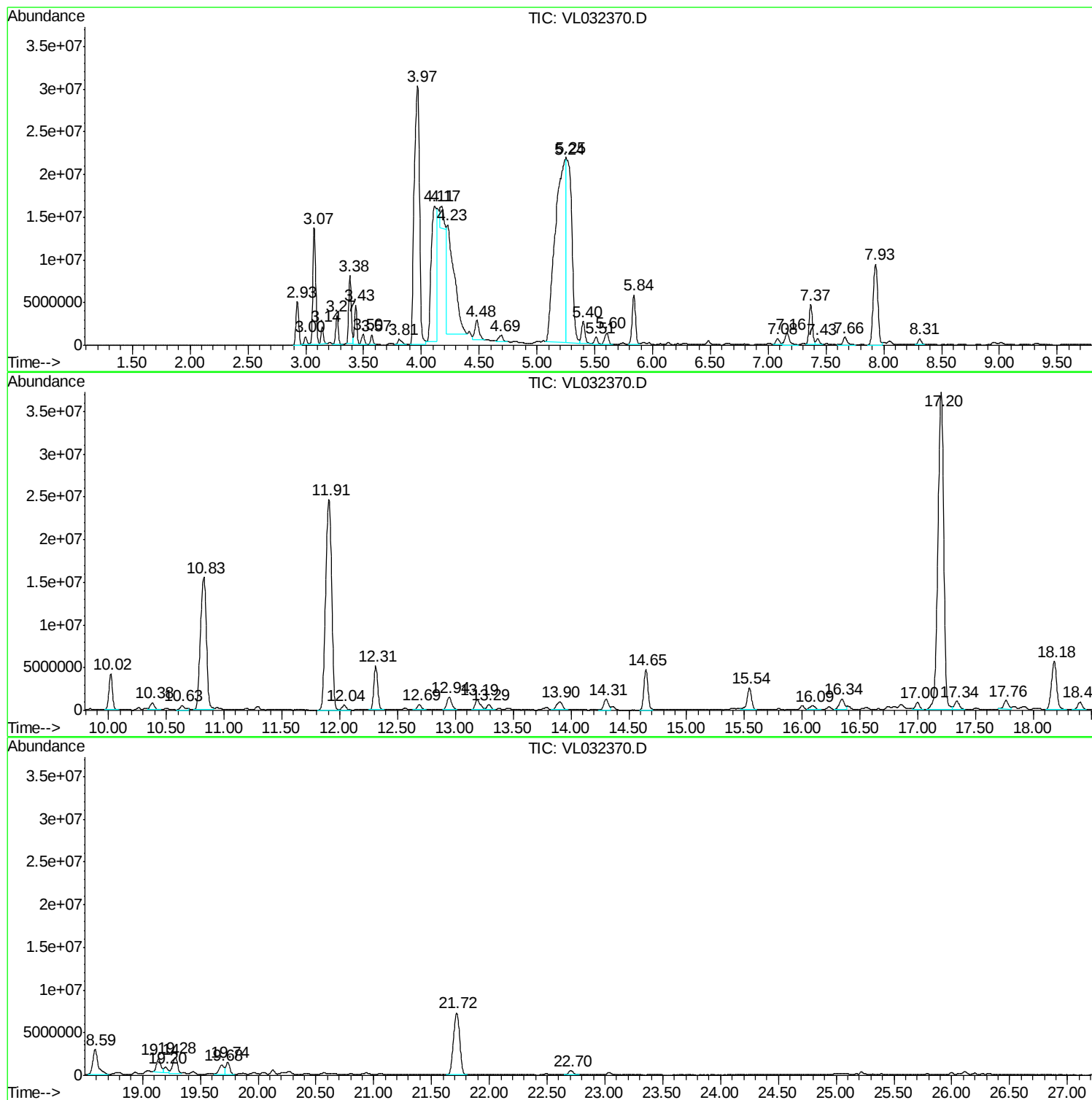
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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



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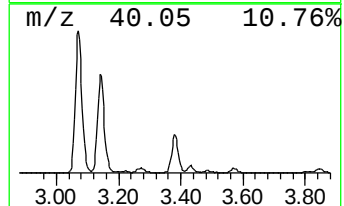
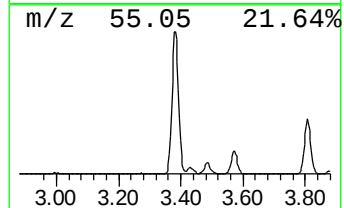
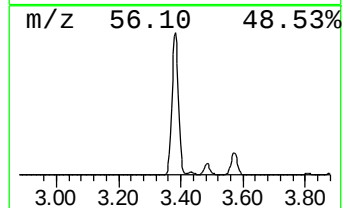
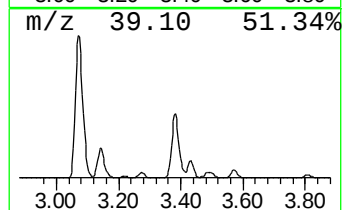
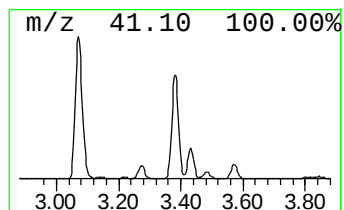
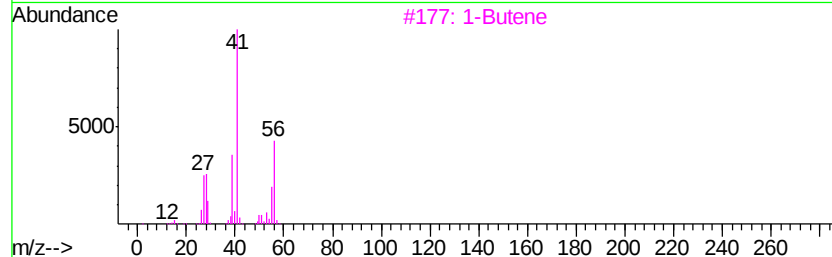
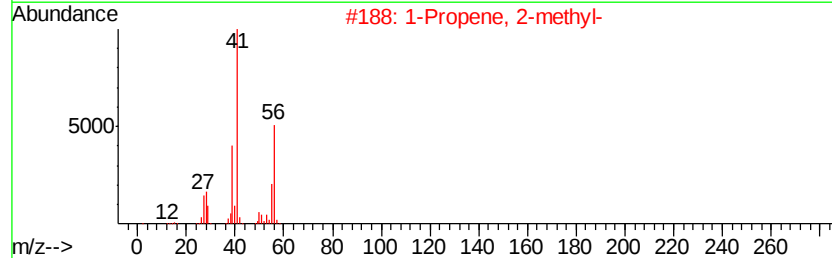
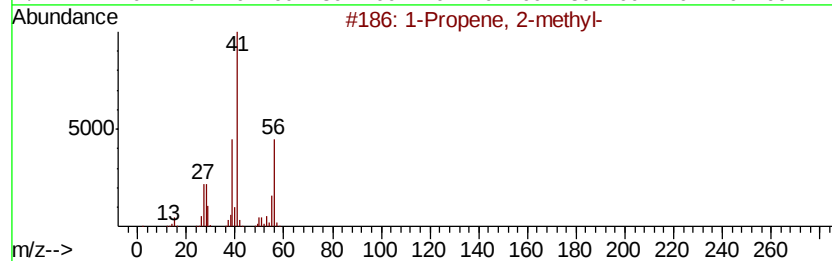
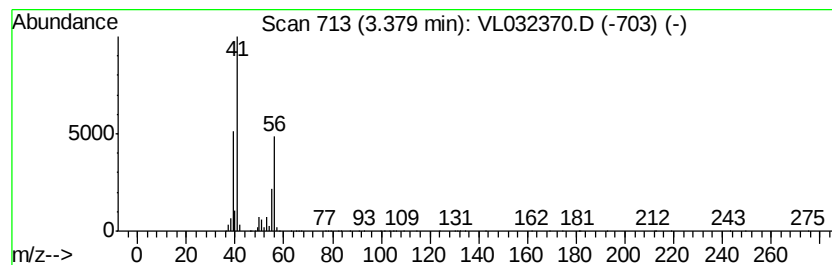
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 3 1-Propene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.38	10.48 ppbv	12369900	Bromochloromethane	5.84

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
2		1-Propene, 2-methyl-	56	C4H8	000115-11-7	90
3		1-Butene	56	C4H8	000106-98-9	87
4		1-Butene	56	C4H8	000106-98-9	87
5		1-Propene, 2-methyl-	56	C4H8	000115-11-7	72



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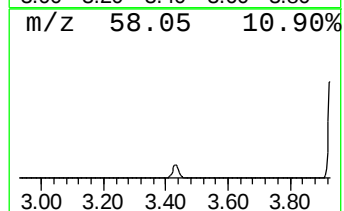
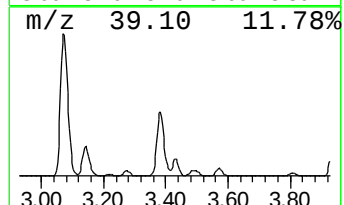
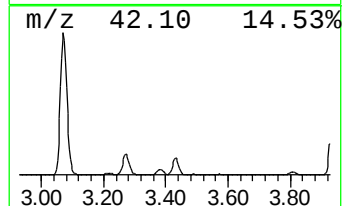
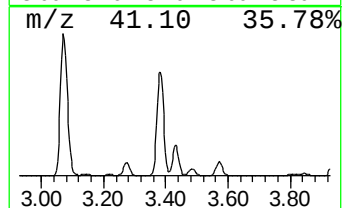
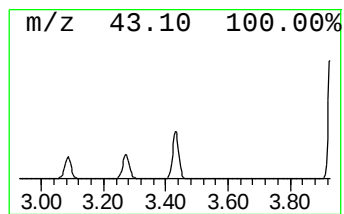
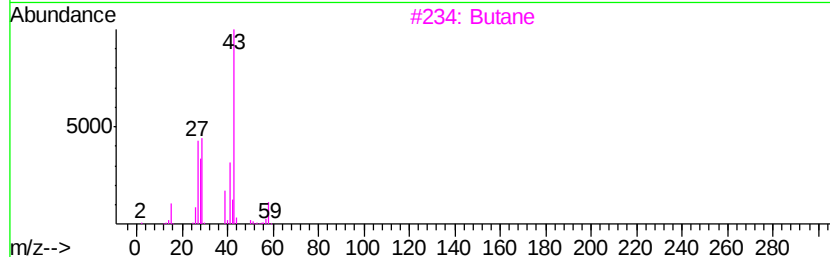
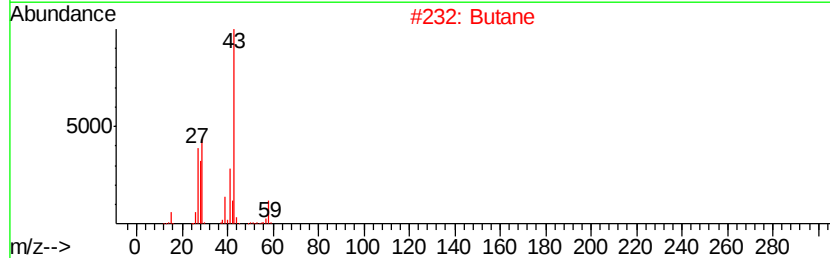
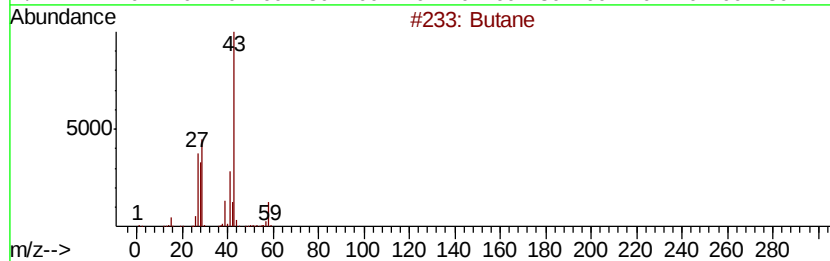
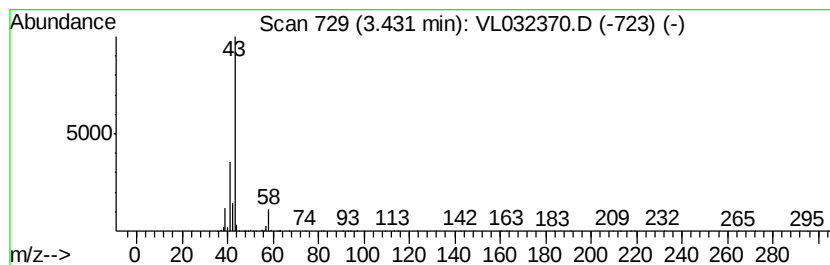
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Butane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.43	5.28 ppbv	6239400	Bromochloromethane	5.84

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	86
2	Butane			58	C4H10	000106-97-8	86
3	Butane			58	C4H10	000106-97-8	72
4	Isopropylsulfonyl chloride			142	C3H7ClO2S	010147-37-2	9
5	Isobutane			58	C4H10	000075-28-5	9



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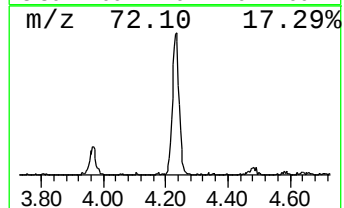
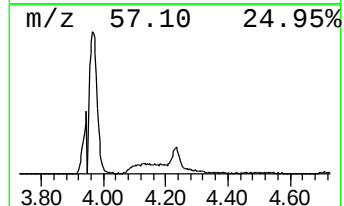
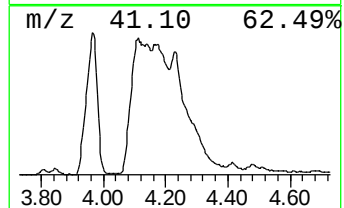
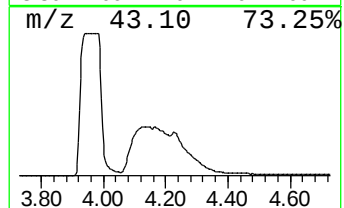
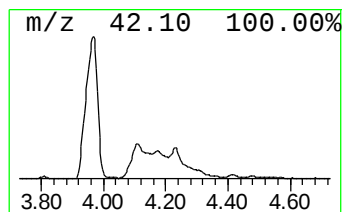
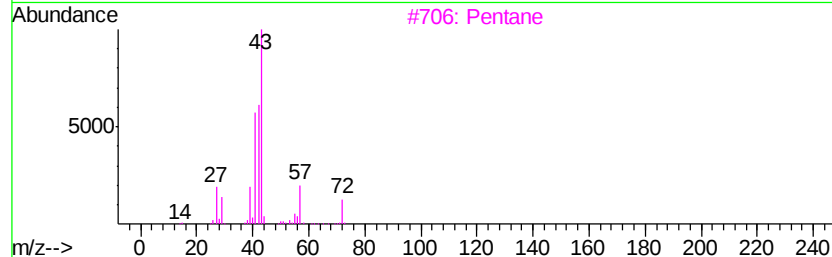
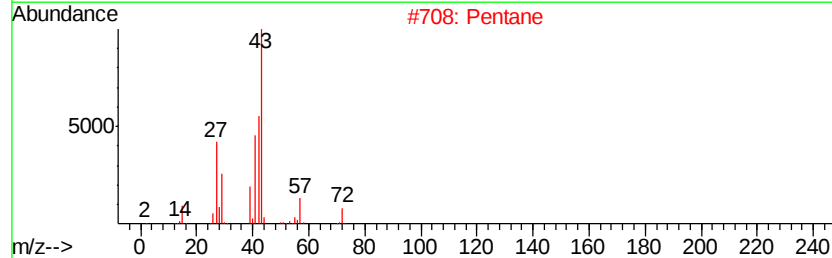
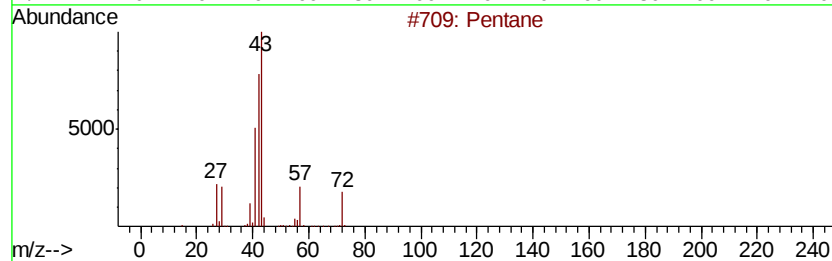
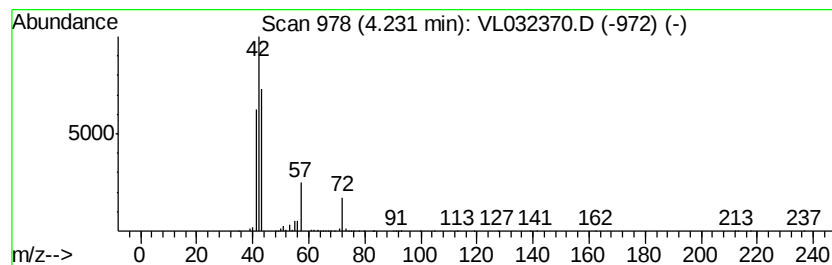
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Pentane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.23	50.74 ppbv	59917600	Bromochloromethane	5.84

Hit# of	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	50
3	Pentane	72	C5H12	000109-66-0	50
4	Pentane	72	C5H12	000109-66-0	47
5	2-Butanone	72	C4H8O	000078-93-3	9



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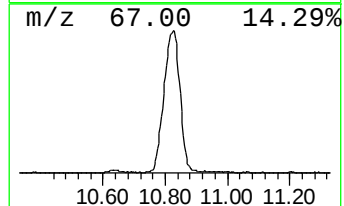
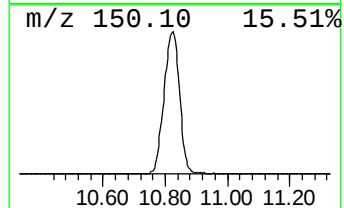
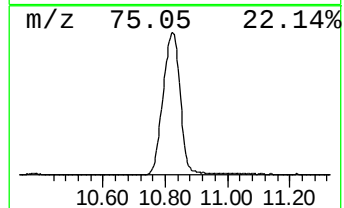
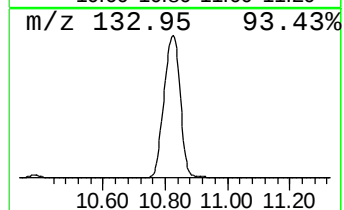
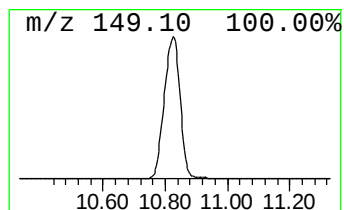
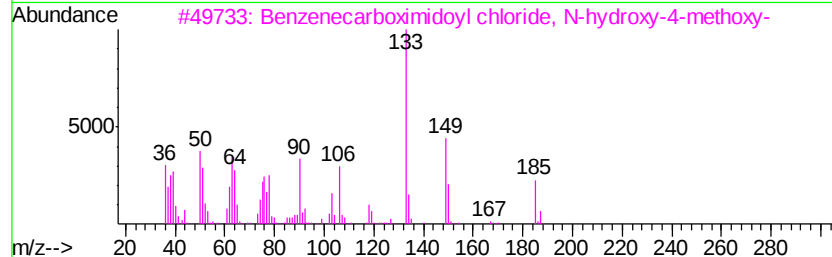
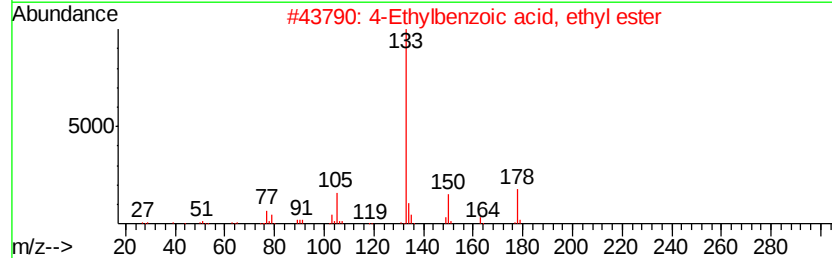
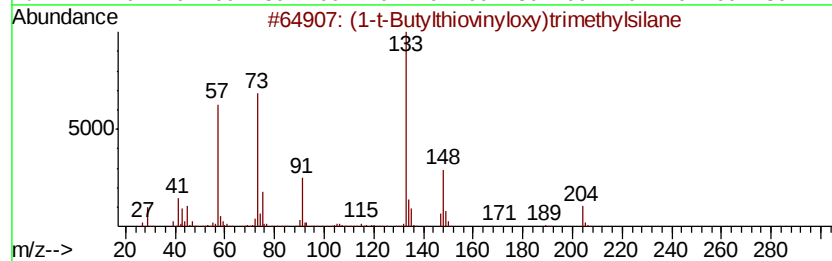
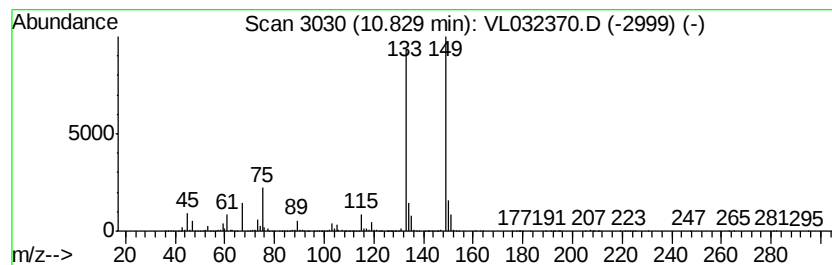
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 unknown10.83 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.83	46.47 ppbv	55896300	Chlorobenzene-d5	12.31	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1-t-Butylthiovinloxy)trimethyl...	204	C9H20OSSI	063584-47-4	37
2	4-Ethylbenzoic acid, ethyl ester	178	C11H14O2	036207-13-3	32
3	Benzenecarboximidovl chloride, N...	185	C8H8ClN02	1000362-64-9	28
4	Benzo[blthiophene-3-methanol, 2,...	180	C10H12OS	039891-65-1	25
5	Benzonitrile, 4-methoxy-	133	C8H7NO	000874-90-8	25



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SG05-MIVI

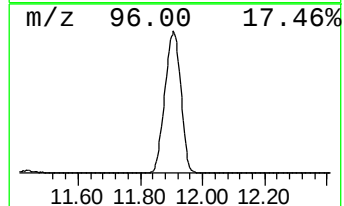
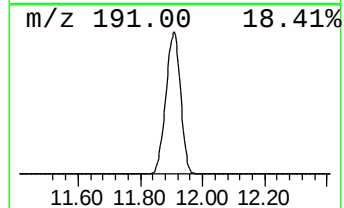
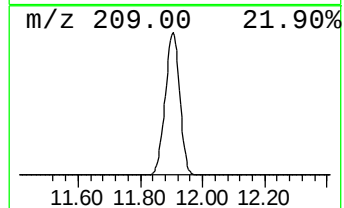
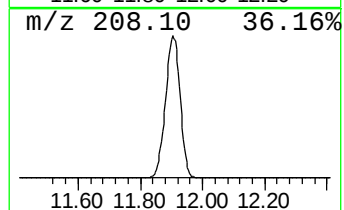
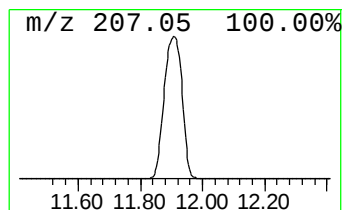
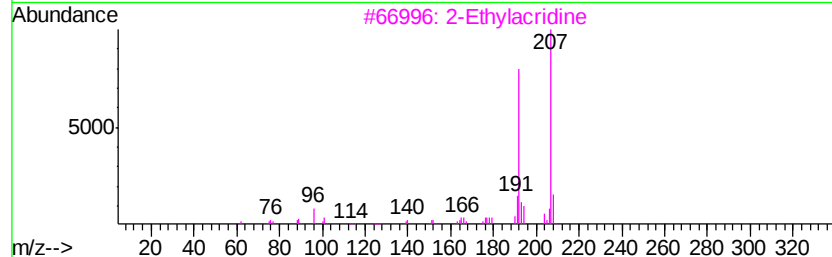
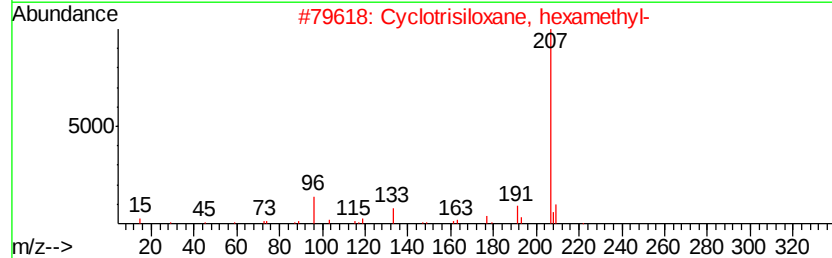
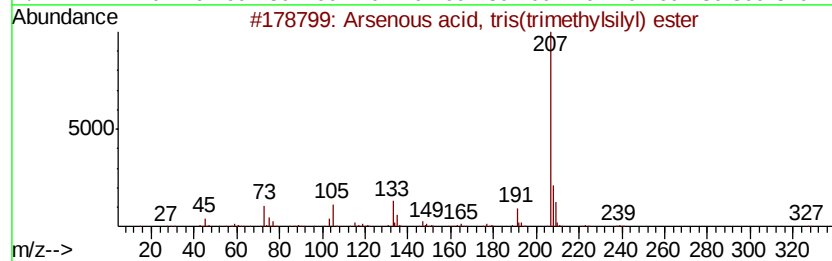
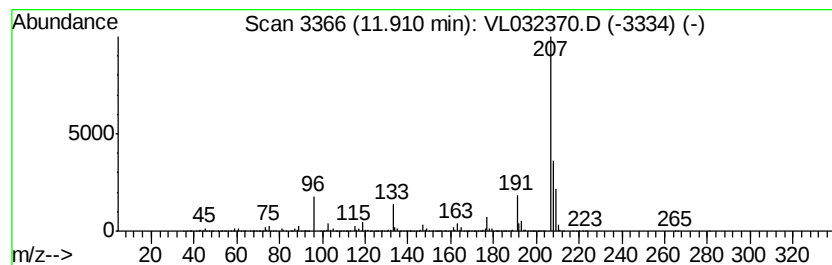
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 10 Arsenous acid, tris(trimeth... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	73.97 ppbv	88974700	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Arsenous acid, tris(trimethylsil...	342	C9H27AsO3Si3	055429-29-3	72
2		Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	59
3		2-Ethylacridine	207	C15H13N	055751-83-2	33
4		Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	30
5		Cyclotrisiloxane, hexamethyl-	222	C6H18O3Si3	000541-05-9	30



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032370.D
Acq On : 16 Aug 2018 3:54
Operator : SY/AP
Sample : J4457-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

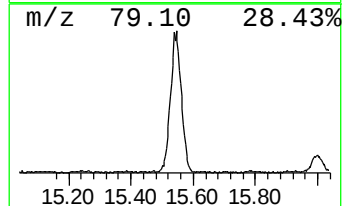
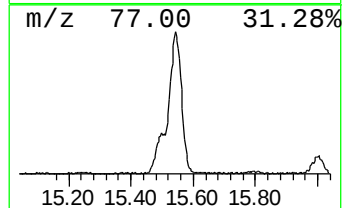
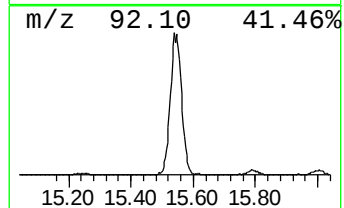
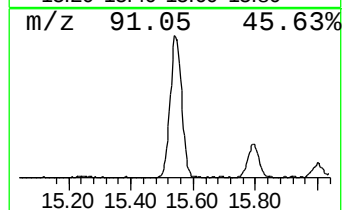
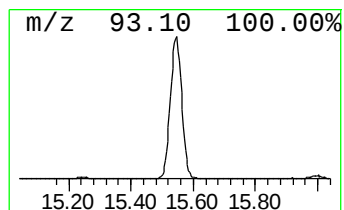
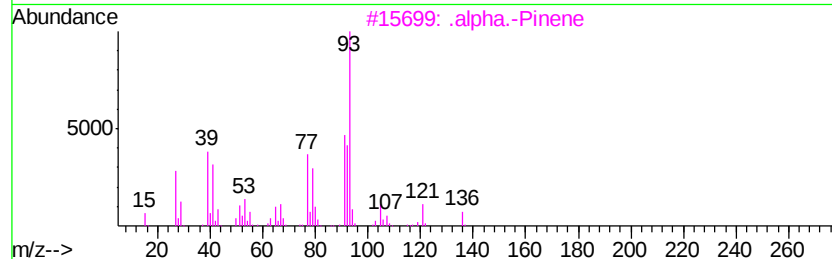
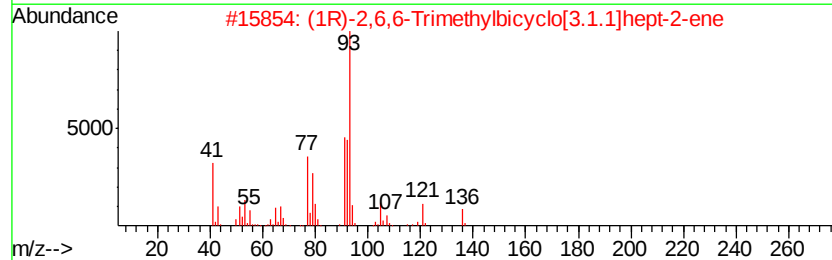
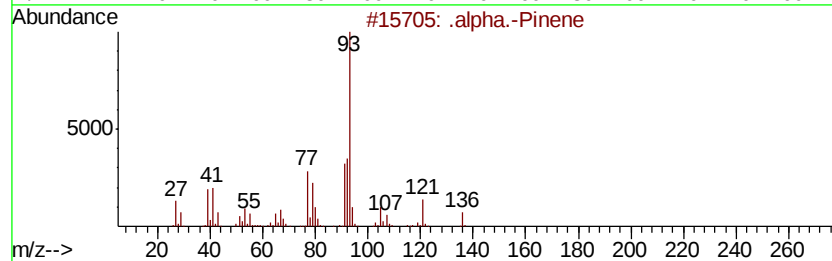
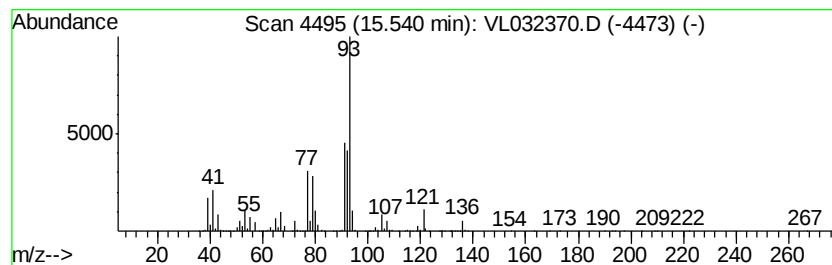
Instrument :
MSVOA_L
ClientSampleId :
SG05-MIVI

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 11 .alpha.-Pinene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.54	5.74 ppbv	6901590	Chlorobenzene-d5	12.31	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	96
2	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	95
3	.alpha.-Pinene	136	C10H16	000080-56-8	95
4	.alpha.-Pinene	136	C10H16	000080-56-8	91
5	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	91



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032370.D
Acq On : 16 Aug 2018 3:54
Operator : SY/AP
Sample : J4457-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG05-MIVI

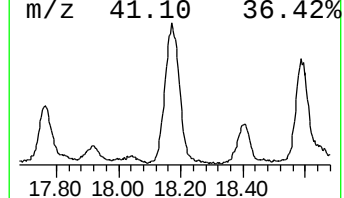
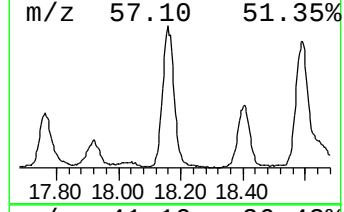
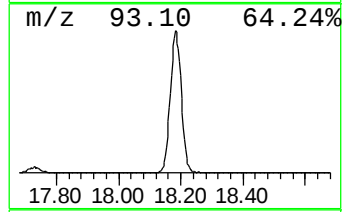
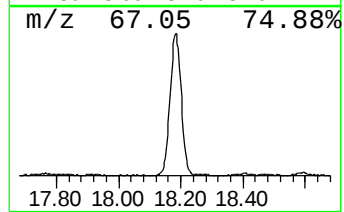
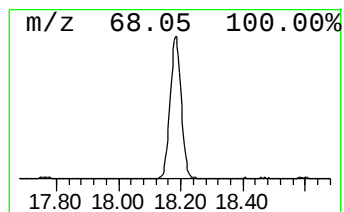
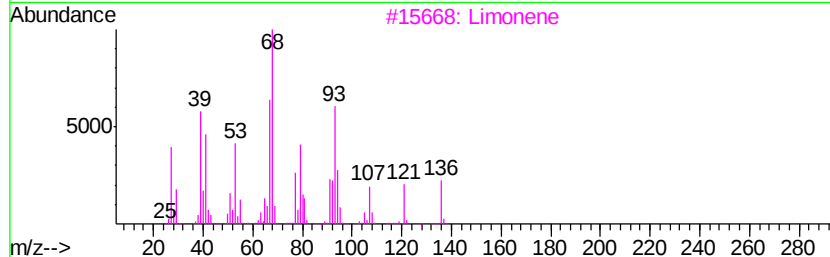
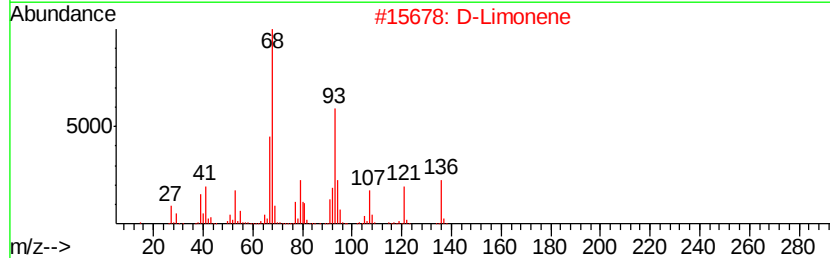
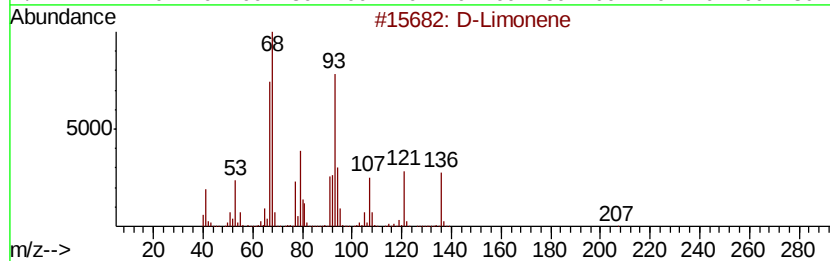
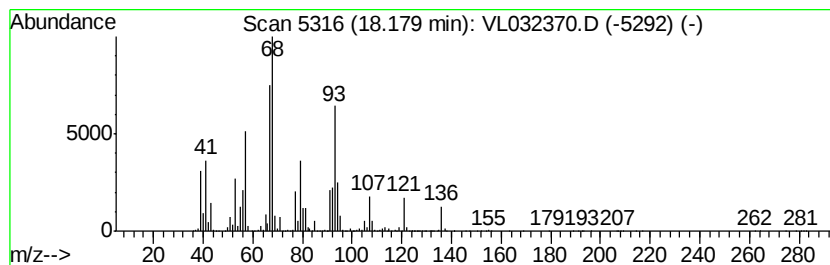
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 12 D-Limonene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	14.69 ppbv	17676200	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	D-Limonene	136	C10H16	005989-27-5	98
2		D-Limonene	136	C10H16	005989-27-5	95
3		Limonene	136	C10H16	000138-86-3	91
4		Limonene	136	C10H16	000138-86-3	91
5		D-Limonene	136	C10H16	005989-27-5	91



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032370.D
Acq On : 16 Aug 2018 3:54
Operator : SY/AP
Sample : J4457-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

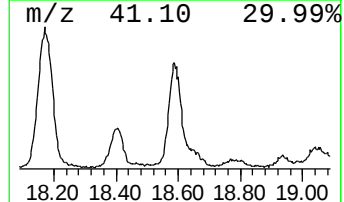
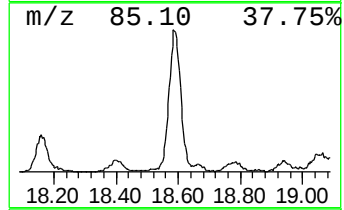
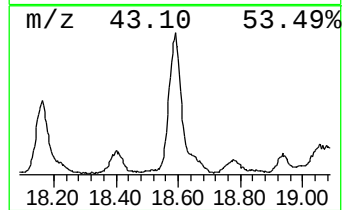
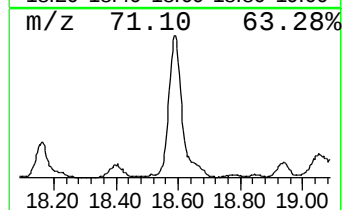
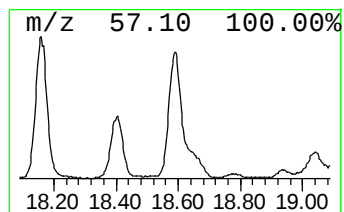
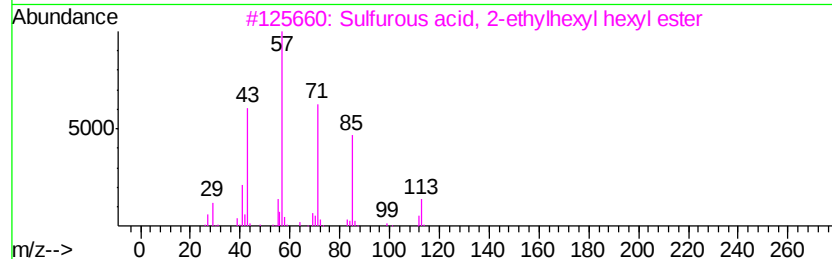
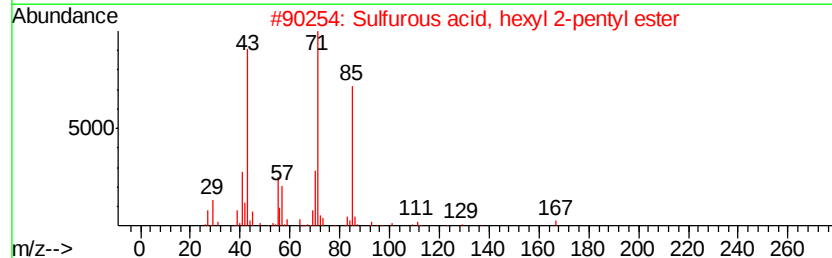
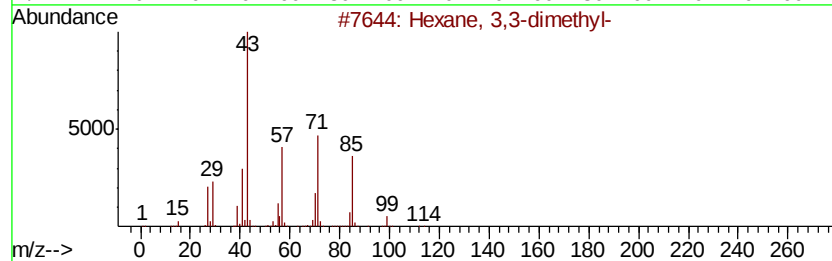
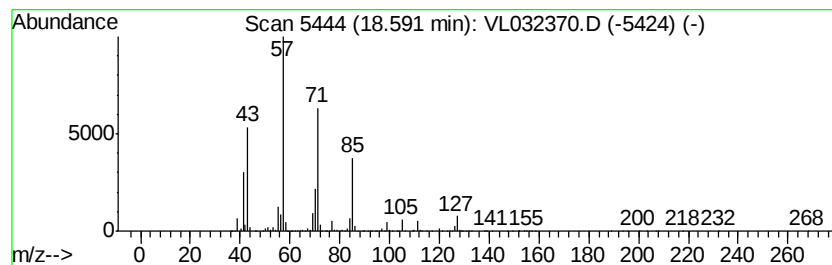
Instrument :
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ClientSampleId :
SG05-MIVI

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 13 Hexane, 3,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	7.68 ppbv	9234550	Chlorobenzene-d5	12.31
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Hexane, 3,3-dimethyl-	114 C8H18	000563-16-6	72
2	Sulfurous acid, hexyl 2-pentyl e...	236 C11H24O3S	1000309-15-6	59
3	Sulfurous acid, 2-ethylhexyl hex...	278 C14H30O3S	1000309-20-2	59
4	Decane, 2,3,6-trimethyl-	184 C13H28	062238-12-4	53
5	Nonane, 3-methyl-5-propyl-	184 C13H28	031081-18-2	53



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032370.D
Acq On : 16 Aug 2018 3:54
Operator : SY/AP
Sample : J4457-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG05-MIVI

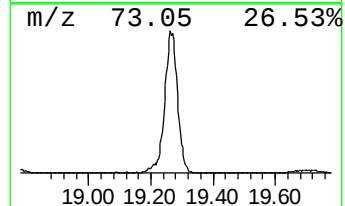
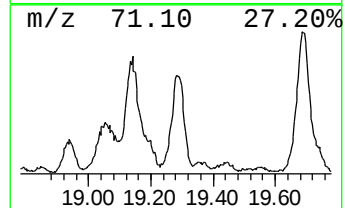
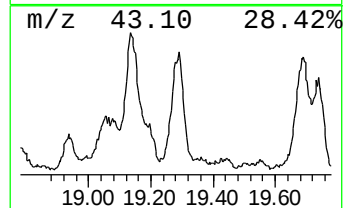
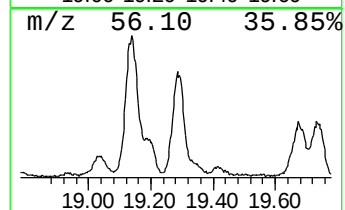
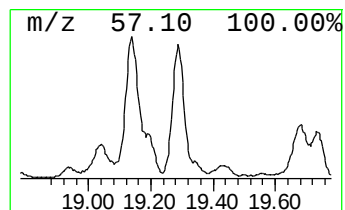
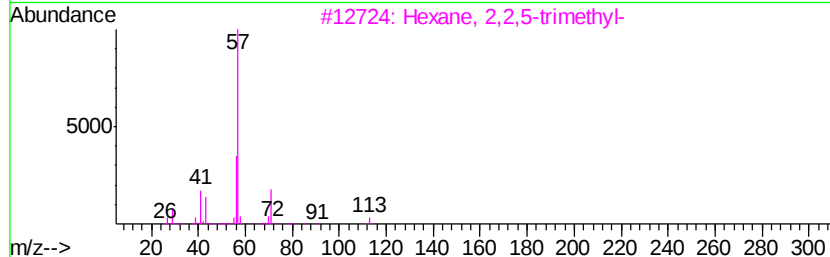
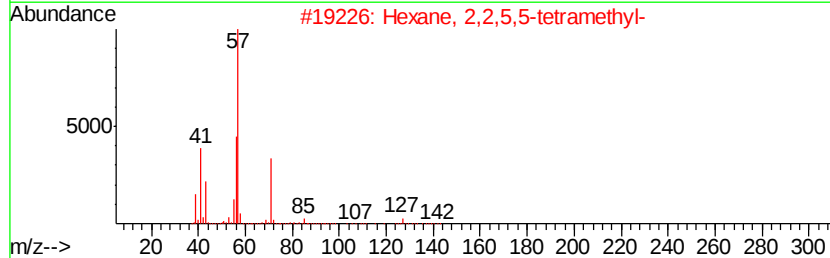
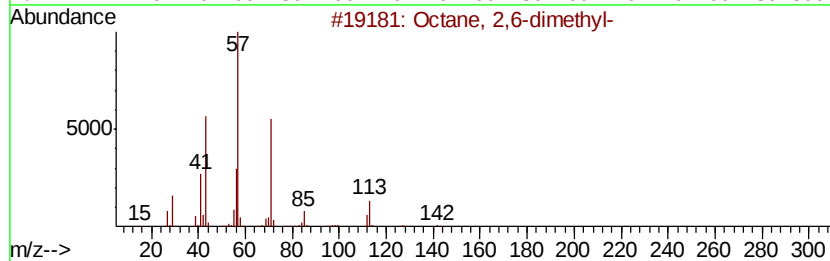
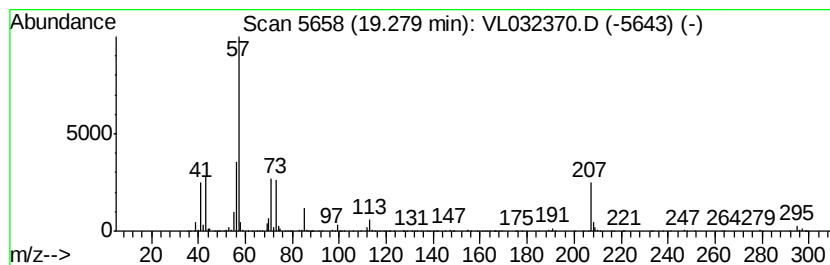
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 14 unknown19.28 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.28	4.37 ppbv	5261770	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	38
2		Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	38
3		Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	38
4		Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	35
5		2,2-Dimethyloctadecane	282	C20H42	1000360-43-2	35



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032370.D
Acq On : 16 Aug 2018 3:54
Operator : SY/AP
Sample : J4457-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

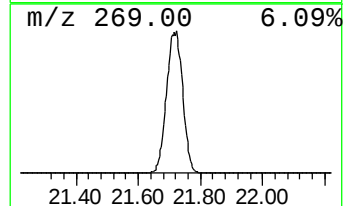
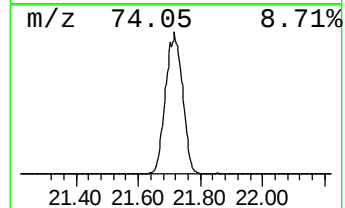
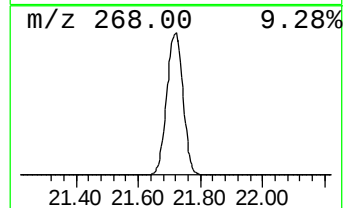
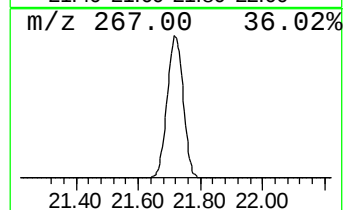
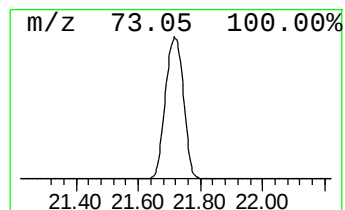
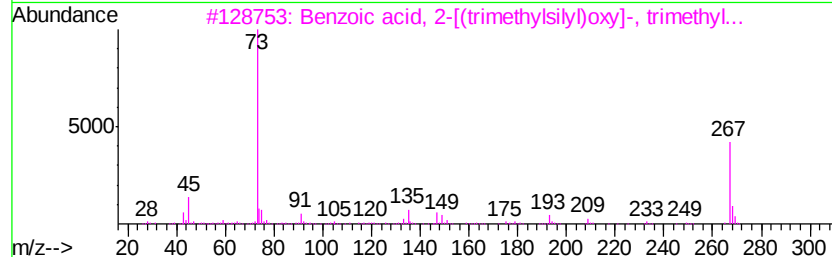
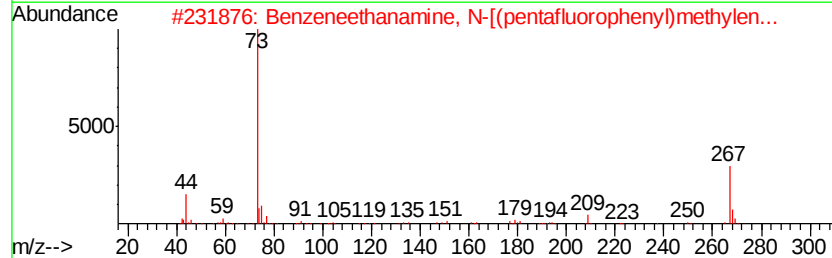
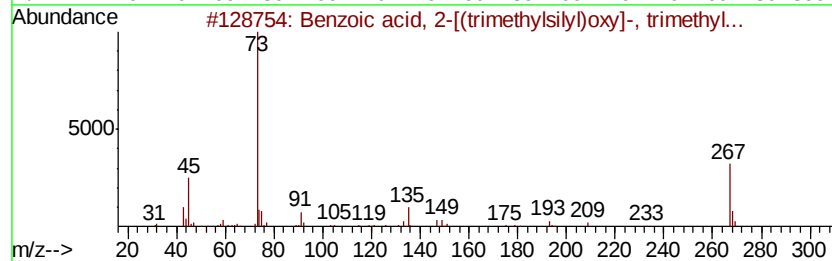
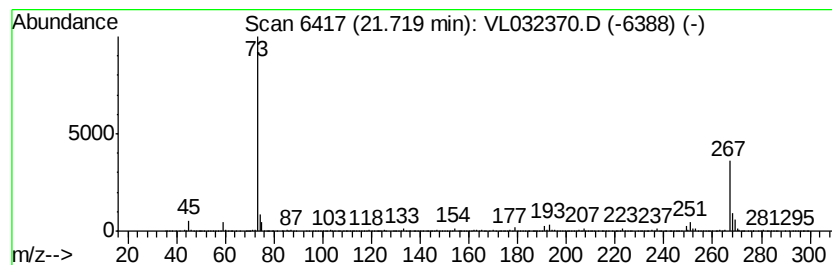
Instrument :
MSVOA_L
ClientSampleId :
SG05-MIVI

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 15 unknown21.72 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.		
21.72	23.15 ppbv	27852800	Chlorobenzene-d5	12.31		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyl...	282	C13H22O3Si2	003789-85-3	38
2		Benzenethanamine, N-[(pentafluorophenyl)methyl]...	475	C21H26F5N02Si2	055429-85-1	38
3		Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyl...	282	C13H22O3Si2	003789-85-3	28
4		Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyl...	282	C13H22O3Si2	003789-85-3	28
5		Cyclopropene, 3,3-diphenyl-1-trimethylsilyloxy-	264	C18H20Si	173595-34-1	12



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081518\
Data File : VL032370.D
Acq On : 16 Aug 2018 3:54
Operator : SY/AP
Sample : J4457-06
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG05-MIVI

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-Propene, 2-methyl-	3.38	10.5	ppbv	12369900	1	5.84	11808800	10.0
Butane	3.43	5.3	ppbv	6239400	1	5.84	11808800	10.0
Pentane	4.23	50.7	ppbv	59917600	1	5.84	11808800	10.0
unknown10.83	10.83	46.5	ppbv	55896300	3	12.31	12029200	10.0
Arsenous acid, tr...	11.91	74.0	ppbv	88974700	3	12.31	12029200	10.0
.alpha.-Pinene	15.54	5.7	ppbv	6901590	3	12.31	12029200	10.0
D-Limonene	18.18	14.7	ppbv	17676200	3	12.31	12029200	10.0
Hexane, 3,3-dimet...	18.59	7.7	ppbv	9234550	3	12.31	12029200	10.0
unknown19.28	19.28	4.4	ppbv	5261770	3	12.31	12029200	10.0
unknown21.72	21.72	23.1	ppbv	27852800	3	12.31	12029200	10.0