

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032372.D
 Acq On : 16 Aug 2018 5:16
 Operator : SY/AP
 Sample : J4457-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DUP1-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	2.929	558	573	590	rBV	9239439	23377182	10.03%	2.021%
2	3.010	590	598	605	rVV	4809952	6078465	2.61%	0.526%
3	3.071	605	617	630	rVV2	6810122	11850861	5.08%	1.025%
4	3.141	630	639	650	rVV	2252900	3637765	1.56%	0.315%
5	3.270	670	679	688	rVV2	2855602	4015316	1.72%	0.347%
6	3.383	701	714	723	rBV	7240200	11380566	4.88%	0.984%
7	3.431	723	729	739	rVV	4064126	5786368	2.48%	0.500%
8	3.498	739	750	764	rVV3	1584750	2745934	1.18%	0.237%
9	3.939	877	887	910	rBV	8070677	17032312	7.31%	1.473%
10	4.116	915	942	946	rBV3	16037133	57819643	24.80%	5.000%
11	4.174	957	960	972	rVV6	1523174	3158480	1.35%	0.273%
12	4.231	972	978	1030	rVB3	13208124	63205172	27.11%	5.465%
13	4.691	1106	1121	1139	rVB3	1435121	3290098	1.41%	0.284%
14	5.244	1240	1293	1325	rBV4	18388428	164445029	70.54%	14.219%
15	5.379	1325	1335	1353	rVB	3158264	6020438	2.58%	0.521%
16	5.604	1391	1405	1419	rVB3	1571507	3701914	1.59%	0.320%
17	5.823	1456	1473	1489	rBV3	4331056	9225196	3.96%	0.798%
18	7.157	1875	1888	1902	rVB	1169812	2648654	1.14%	0.229%
19	7.353	1918	1949	1961	rBV2	4787758	9789663	4.20%	0.847%
20	7.656	2027	2043	2069	rVB6	1070672	2803261	1.20%	0.242%
21	7.923	2105	2126	2143	rBV2	8337048	22811655	9.78%	1.972%
22	10.012	2757	2776	2795	rVB	5382264	11699143	5.02%	1.012%
23	10.373	2875	2888	2913	rVB5	1102816	3215437	1.38%	0.278%
24	10.832	3001	3031	3058	rBV3	18013595	77948616	33.44%	6.740%
25	11.910	3334	3366	3390	rBV2	27195144	102221325	43.85%	8.839%
26	12.308	3474	3490	3511	rBV	5033441	11661744	5.00%	1.008%
27	12.688	3588	3608	3625	rBV2	1085400	2941081	1.26%	0.254%
28	12.945	3668	3688	3722	rBV7	2635210	8302039	3.56%	0.718%
29	13.189	3747	3764	3783	rBV2	2268355	7125165	3.06%	0.616%
30	13.292	3783	3796	3809	rVV3	1002487	2542329	1.09%	0.220%
31	13.909	3964	3988	4006	rVB3	1605998	5671458	2.43%	0.490%
32	14.308	4092	4112	4124	rBV2	2342610	6750799	2.90%	0.584%
33	14.649	4199	4218	4238	rBV2	4461048	11181768	4.80%	0.967%
34	15.543	4472	4496	4516	rVB2	5605904	15403470	6.61%	1.332%

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35	16.347	4726	4746	4753	rVV3	2628979	7007972	3.01%	0.606%
36	16.392	4753	4760	4786	rVB4	2958826	7498809	3.22%	0.648%
37	16.999	4936	4949	4964	rVB	1388728	3258579	1.40%	0.282%
38	17.221	4972	5018	5043	rBV2	59980140	233129705	100.00%	20.158%
39	17.343	5043	5056	5078	rVB2	1920595	5933888	2.55%	0.513%
40	17.758	5136	5185	5198	rBV7	1032229	4409596	1.89%	0.381%
41	17.919	5219	5235	5251	rVB3	804906	2467654	1.06%	0.213%
42	18.189	5293	5319	5356	rVB6	17173508	56117581	24.07%	4.852%
43	18.408	5363	5387	5402	rBV2	2200654	6150849	2.64%	0.532%
44	18.594	5422	5445	5484	rVV	6733728	22182257	9.51%	1.918%
45	19.141	5599	5615	5628	rBV2	3773123	10409168	4.46%	0.900%
46	19.202	5628	5634	5645	rVV7	1271947	3093204	1.33%	0.267%
47	19.289	5645	5661	5677	rVB2	4474171	13216241	5.67%	1.143%
48	19.691	5764	5786	5796	rBV3	2858837	9257856	3.97%	0.801%
49	19.739	5796	5801	5819	rVB4	2099015	4250044	1.82%	0.367%
50	20.131	5911	5923	5934	rVV4	1062743	2437703	1.05%	0.211%
51	20.269	5956	5966	5991	rVB5	1013968	2943448	1.26%	0.255%
52	20.938	6148	6174	6195	rVV6	1155777	3494696	1.50%	0.302%
53	21.726	6385	6419	6444	rBV	14571395	57737600	24.77%	4.993%

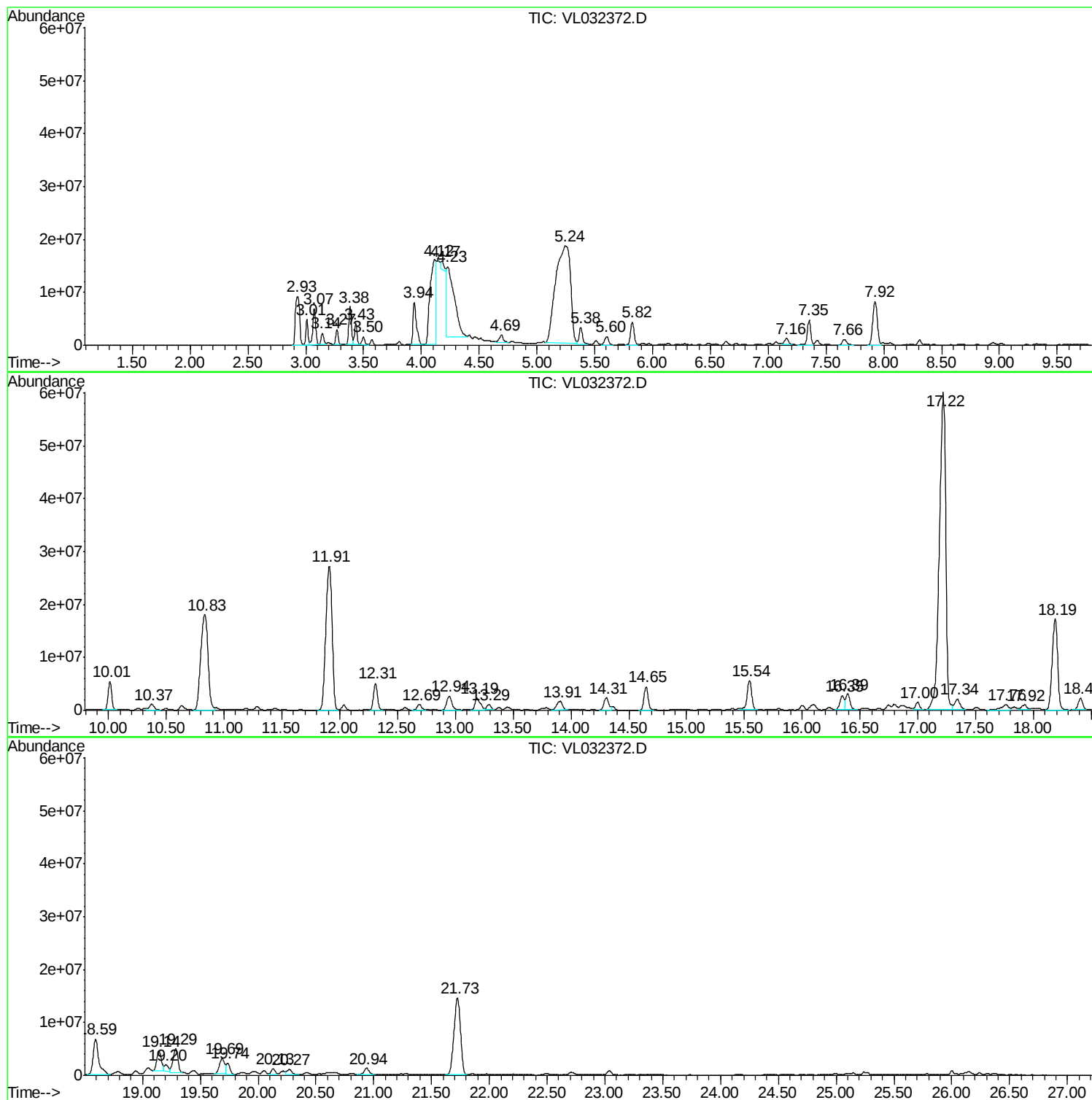
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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



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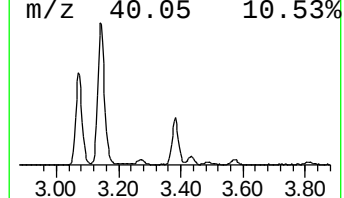
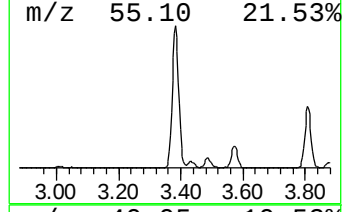
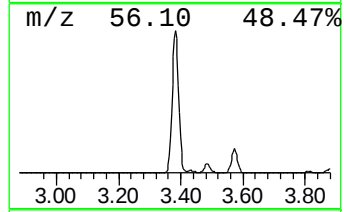
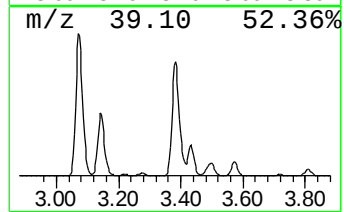
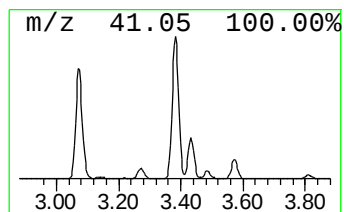
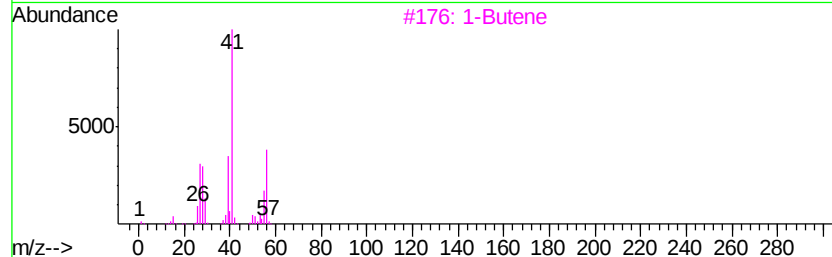
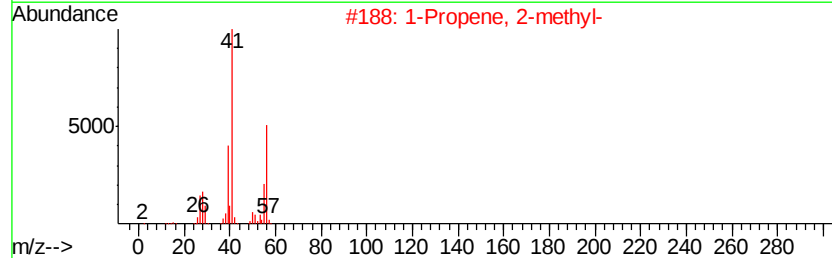
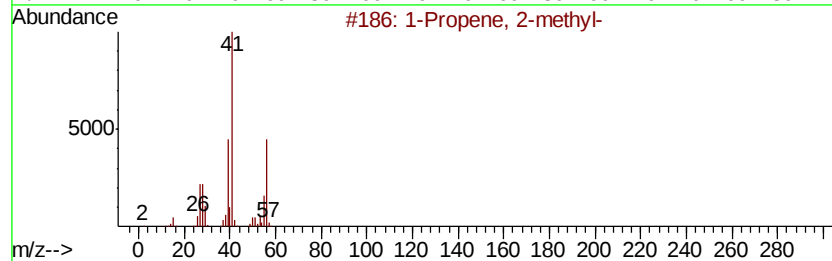
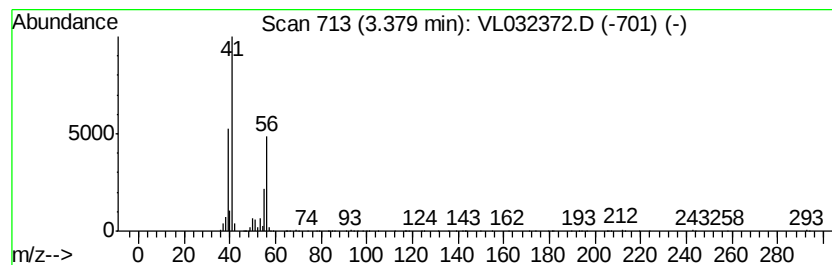
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 3 1-Propene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.38	12.34 ppbv	11380600	Bromochloromethane	5.82

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		2-Butene, (Z)-	56	C4H8	000590-18-1	86



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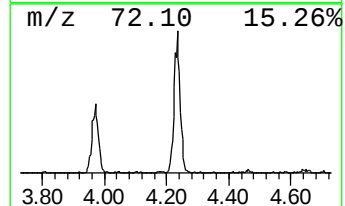
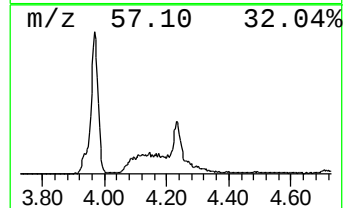
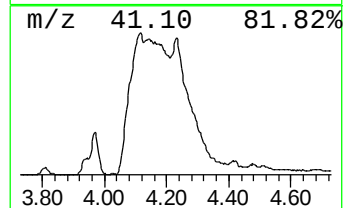
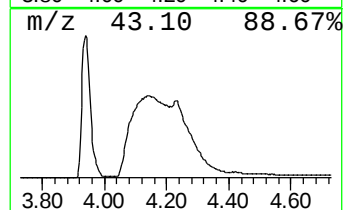
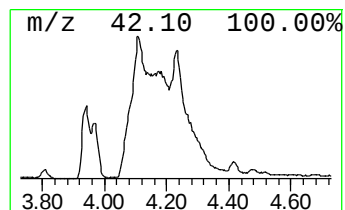
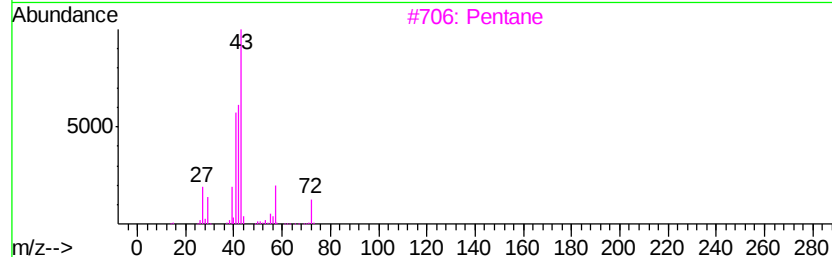
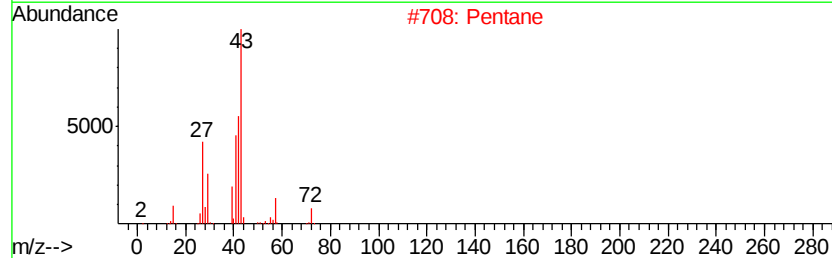
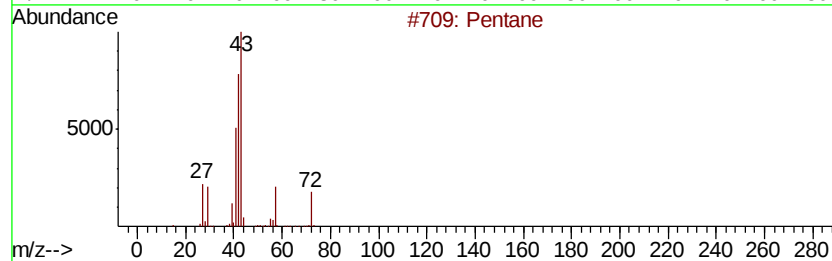
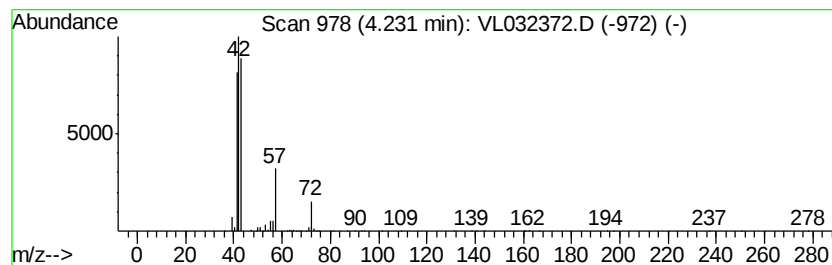
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 4 Pentane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.23	68.51 ppbv	63205200	Bromochloromethane	5.82

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane		72	C5H12	000109-66-0	78
2	Pentane		72	C5H12	000109-66-0	59
3	Pentane		72	C5H12	000109-66-0	43
4	Butane, 2-methyl-		72	C5H12	000078-78-4	40
5	Pentane		72	C5H12	000109-66-0	38



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Sample : J4457-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

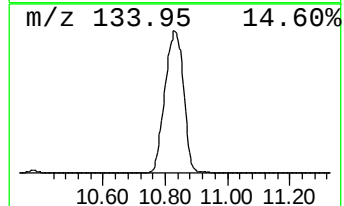
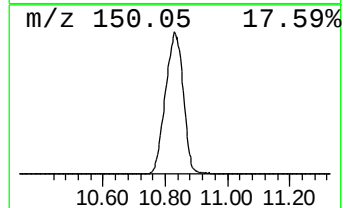
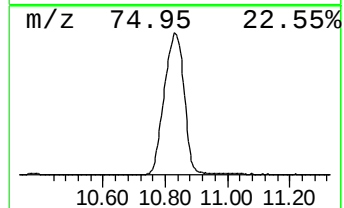
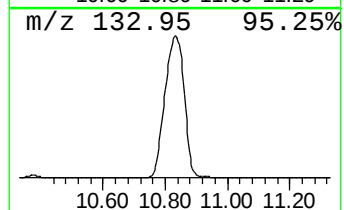
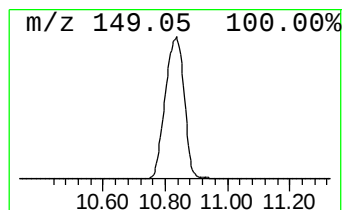
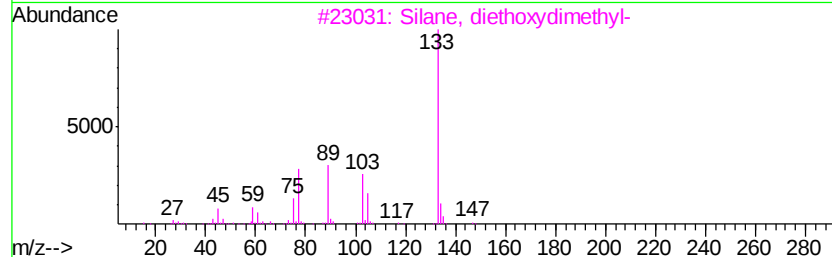
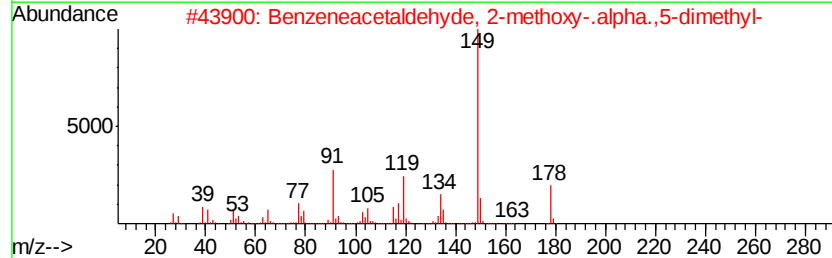
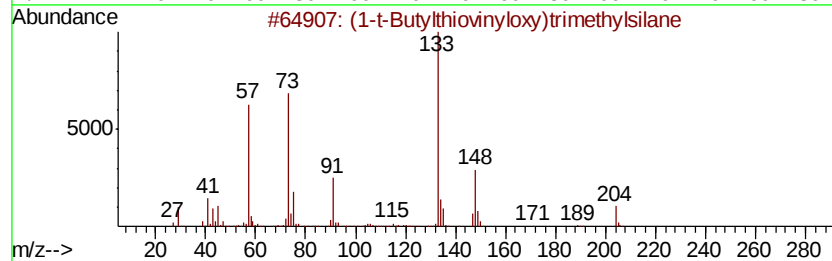
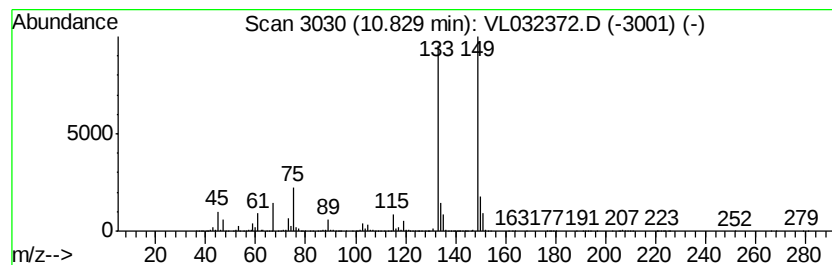
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 unknown10.83 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.83	66.84 ppbv	77948600	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	Benzeneacetaldehyde, 2-methoxy-....	178	C11H14O2	053155-90-1	32
3	Silane, diethoxydimethyl-	148	C6H16O2Si	000078-62-6	25
4	4-Ethylbenzoic acid, ethyl ester	178	C11H14O2	036207-13-3	25
5	Benzo[b]thiophene-3-methanol, 2,...	180	C10H12OS	039891-65-1	17



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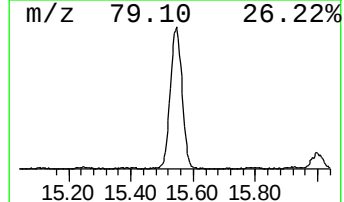
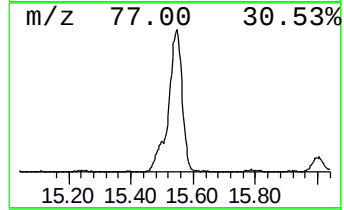
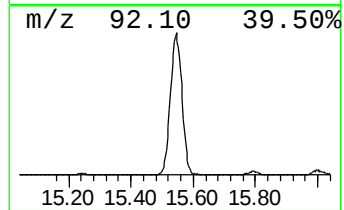
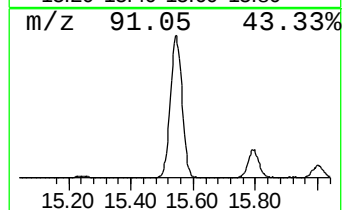
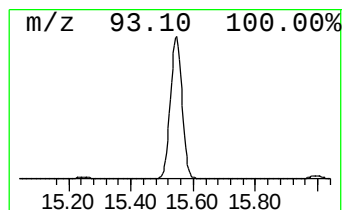
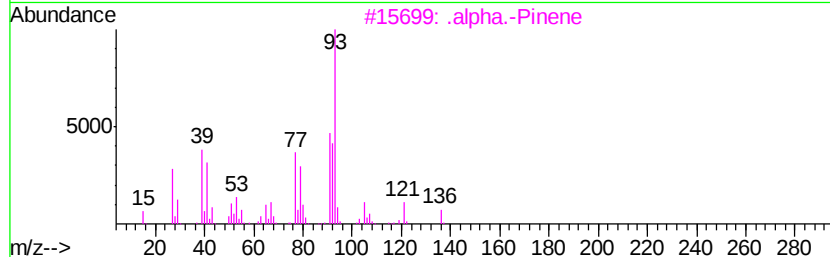
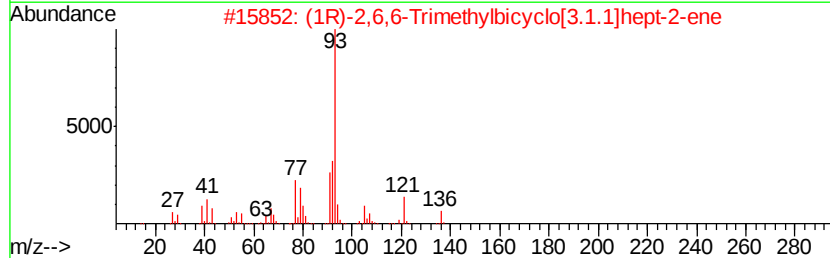
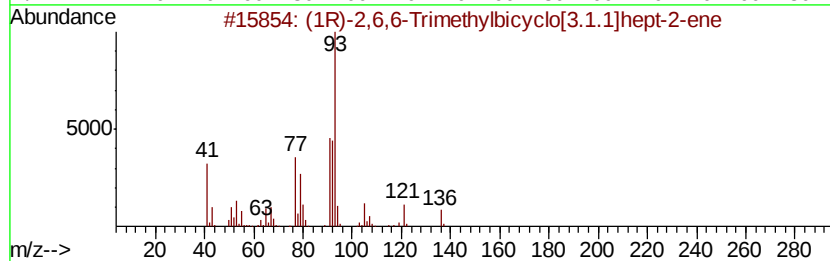
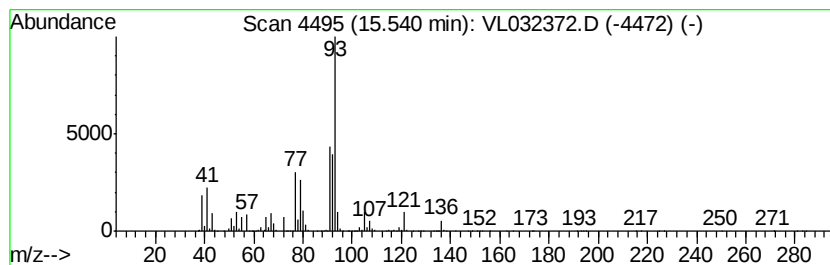
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.54	13.21 ppbv	15403500	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	136	C10H16	007785-70-8	95
2		(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	136	C10H16	007785-70-8	95
3		.alpha.-Pinene	136	C10H16	000080-56-8	95
4		.alpha.-Pinene	136	C10H16	000080-56-8	94
5		Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl-	136	C10H16	004889-83-2	91



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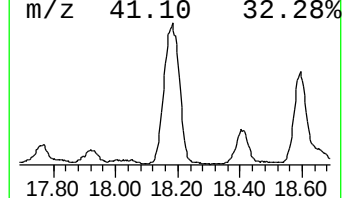
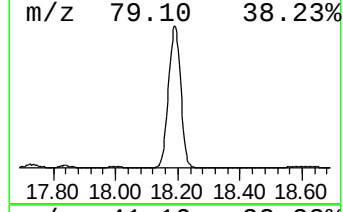
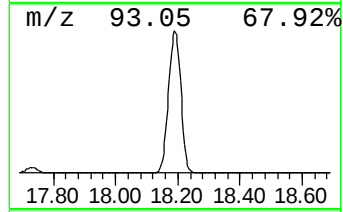
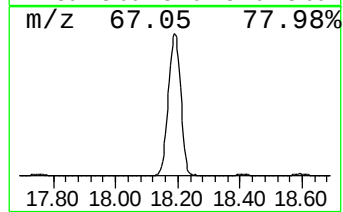
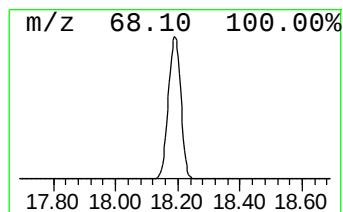
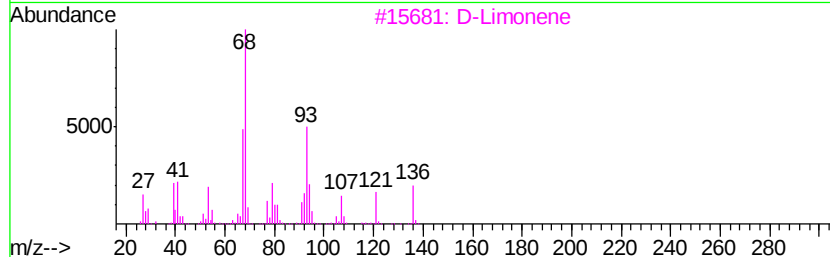
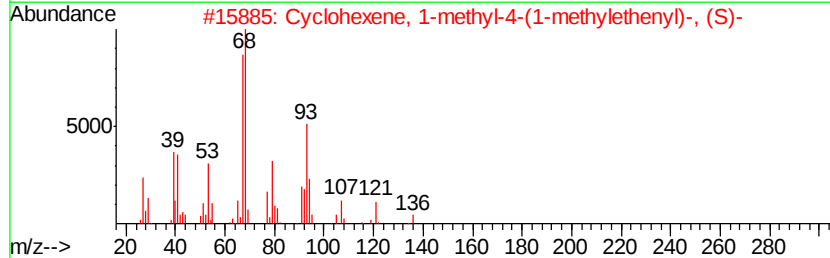
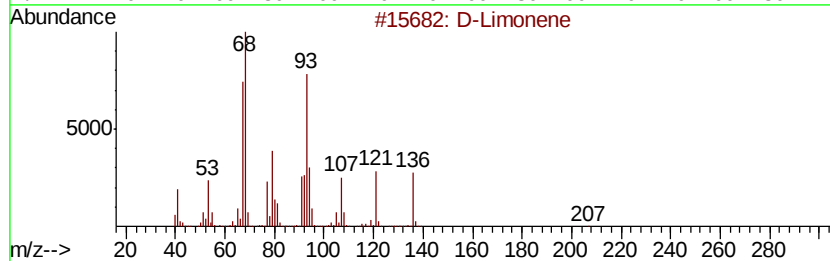
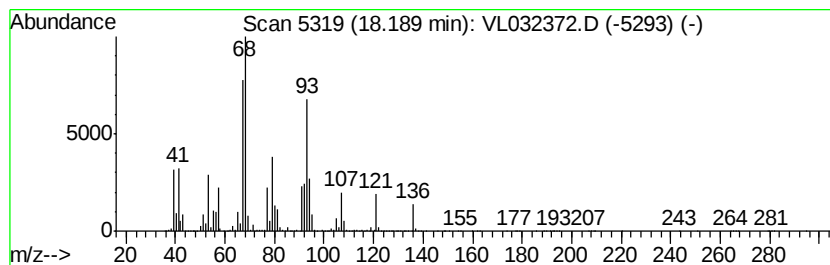
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MSVOA_L
ClientSampleId :
DUP1-MIVI

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

Peak Number 10 D-Limonene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	48.12 ppbv	56117600	Chlorobenzene-d5	12.31
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	D-Limonene		136 C10H16	005989-27-5 98
2	Cyclohexene, 1-methyl-4-(1-methy...		136 C10H16	005989-54-8 95
3	D-Limonene		136 C10H16	005989-27-5 93
4	D-Limonene		136 C10H16	005989-27-5 93
5	Cyclohexene, 1-methyl-5-(1-methy...		136 C10H16	013898-73-2 90



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032372.D
Acq On : 16 Aug 2018 5:16
Operator : SY/AP
Sample : J4457-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

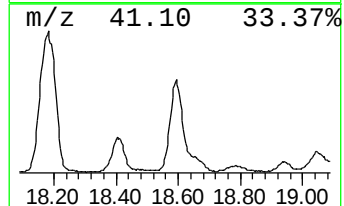
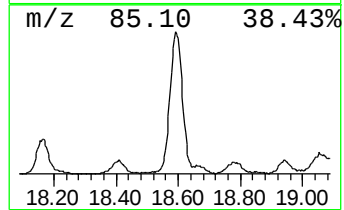
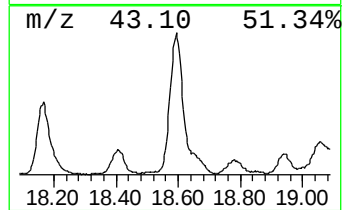
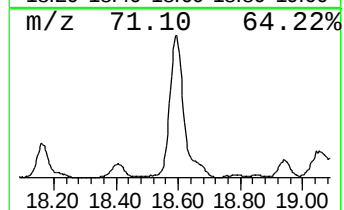
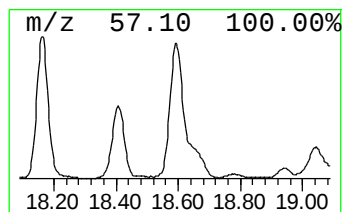
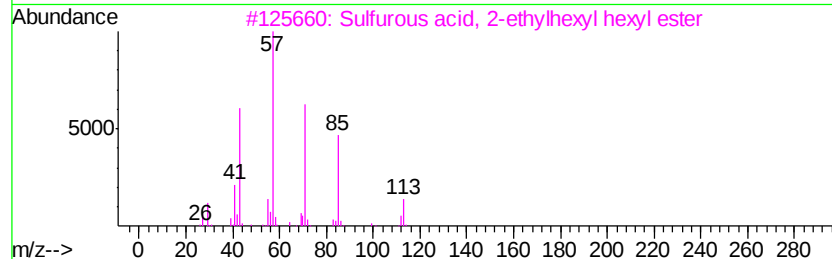
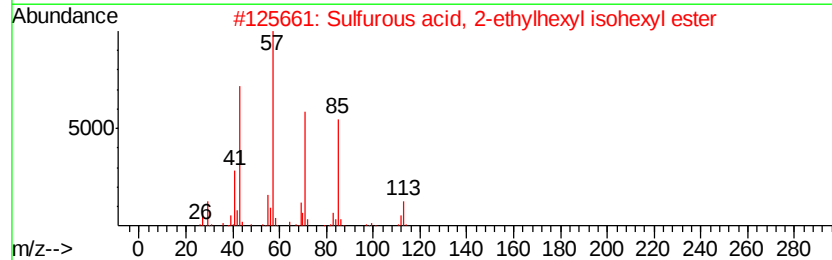
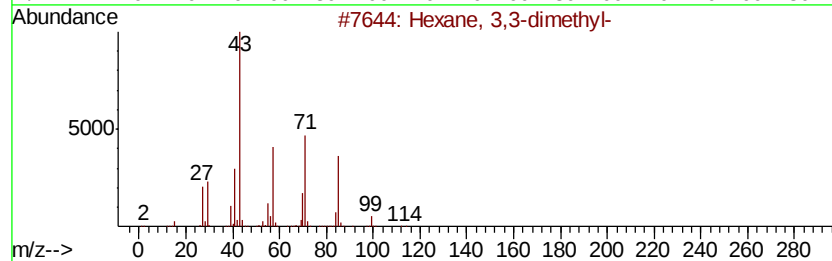
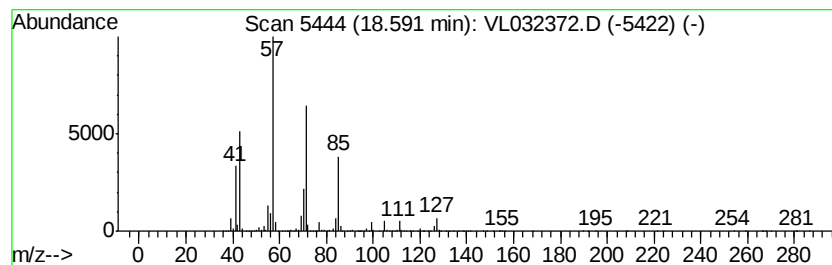
Instrument :
MSVOA_L
ClientSampleId :
DUP1-MIVI

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 Hexane, 3,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.59	19.02 ppbv	22182300	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, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	64
3	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	64
4	Undecane, 4,7-dimethyl-	184	C13H28	017301-32-5	64
5	Sulfurous acid, hexyl 2-pentyl e...	236	C11H24O3S	1000309-15-6	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032372.D
Acq On : 16 Aug 2018 5:16
Operator : SY/AP
Sample : J4457-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DUP1-MIVI

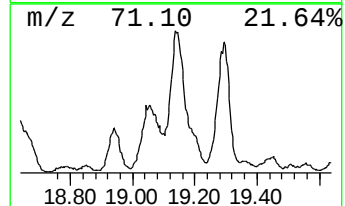
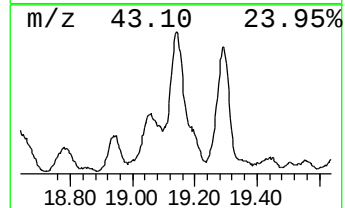
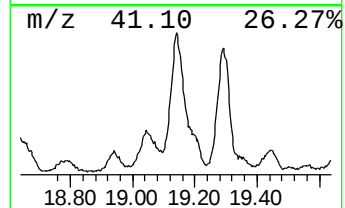
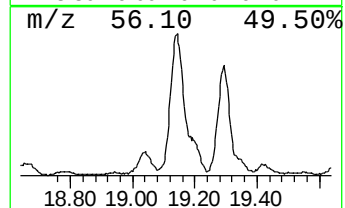
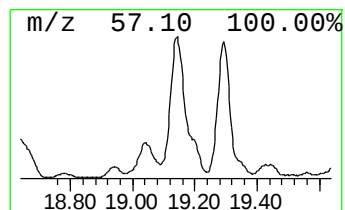
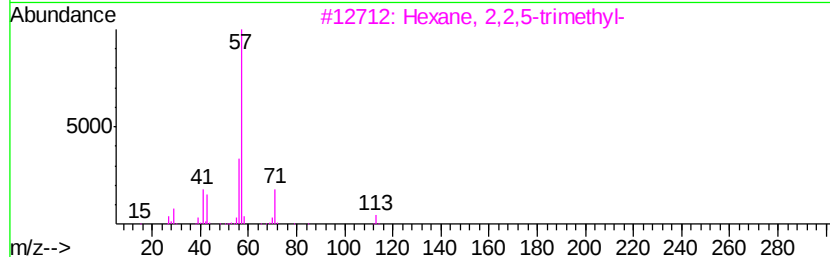
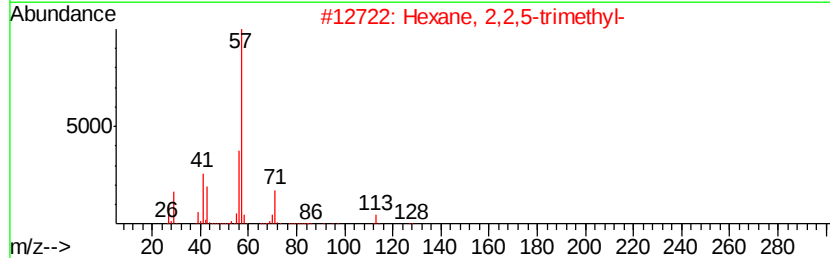
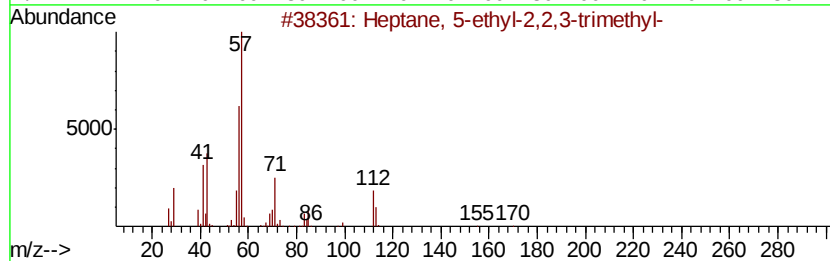
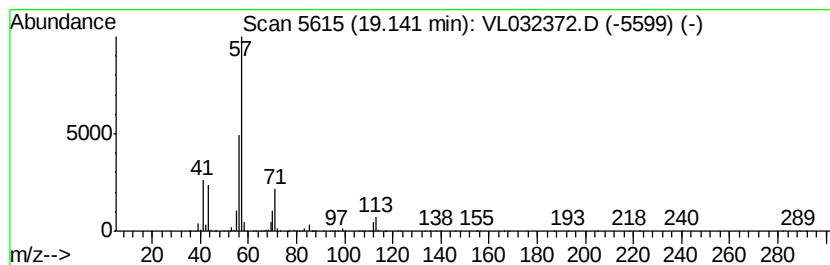
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 12 Heptane, 5-ethyl-2,2,3-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.14	8.93 ppbv	10409200	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptane, 5-ethyl-2,2,3-trimethyl-	170	C12H26	062199-06-8	78
2		Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
3		Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
4		Heptane, 2,2-dimethyl-	128	C9H20	001071-26-7	64
5		Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032372.D
Acq On : 16 Aug 2018 5:16
Operator : SY/AP
Sample : J4457-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

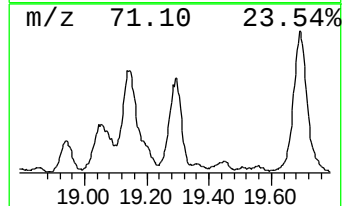
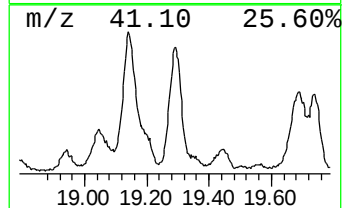
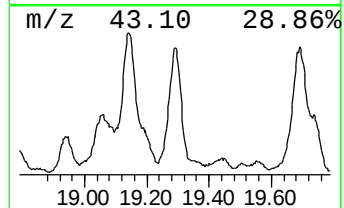
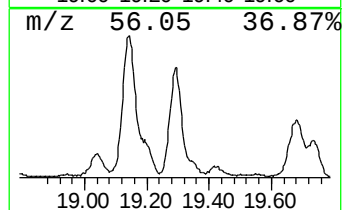
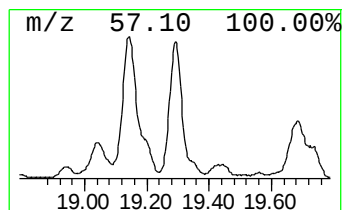
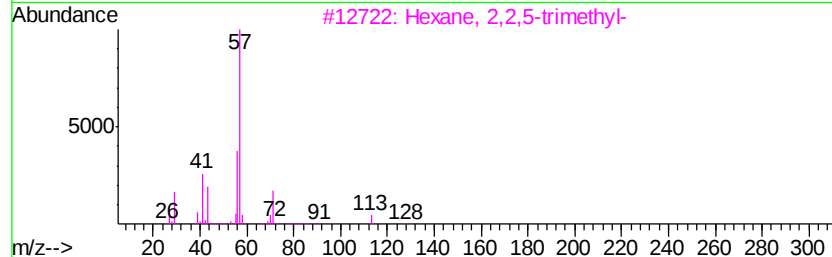
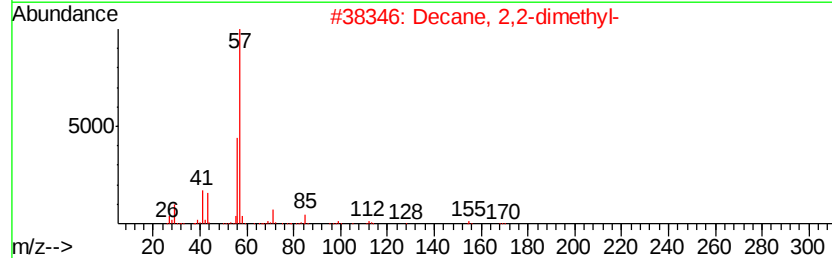
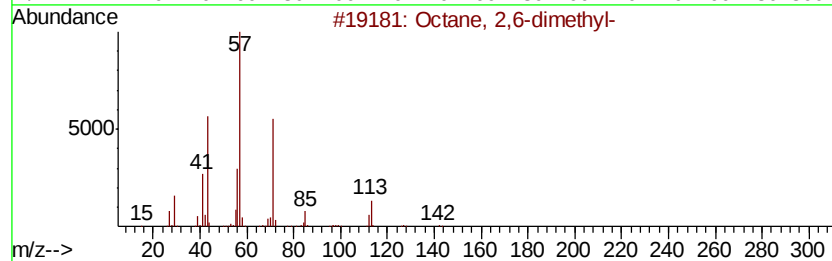
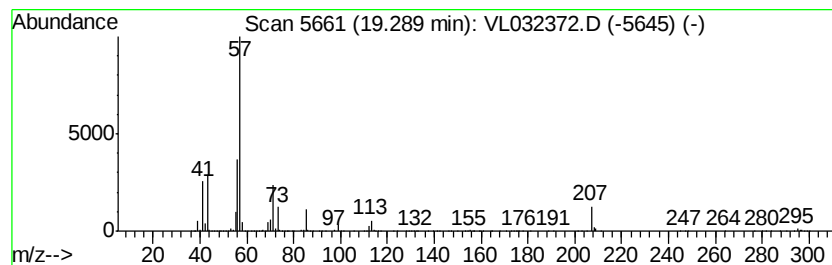
Instrument :
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ClientSampleId :
DUP1-MIVI

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 Octane, 2,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.		
19.29	11.33 ppbv	13216200	Chlorobenzene-d5	12.31		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane,	2,6-dimethyl-	142	C10H22	002051-30-1	50
2	Decane,	2,2-dimethyl-	170	C12H26	017302-37-3	47
3	Hexane,	2,2,5-trimethyl-	128	C9H20	003522-94-9	47
4	Hexane,	2,2,5-trimethyl-	128	C9H20	003522-94-9	47
5	Hexane,	2,2,5-trimethyl-	128	C9H20	003522-94-9	47



Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032372.D
Acq On : 16 Aug 2018 5:16
Operator : SY/AP
Sample : J4457-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

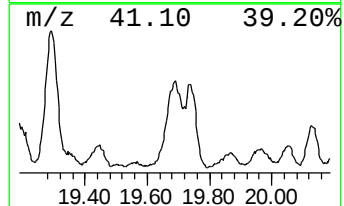
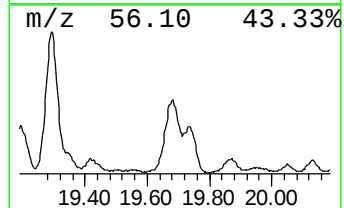
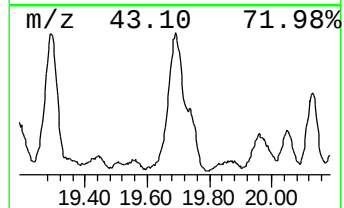
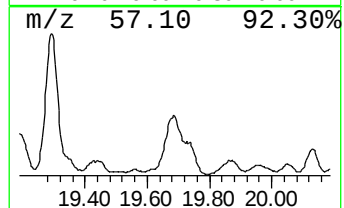
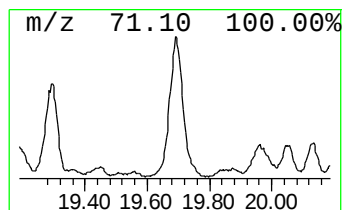
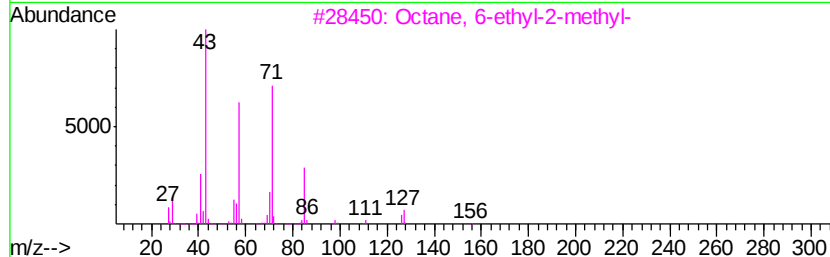
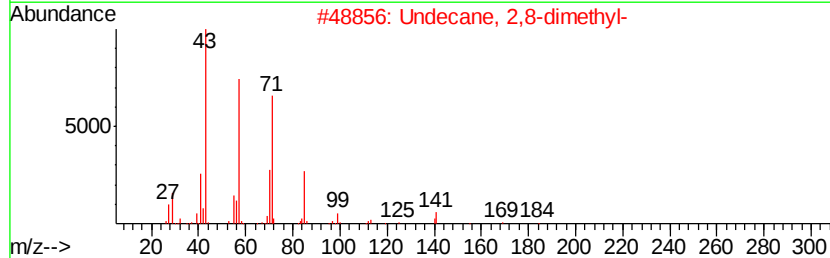
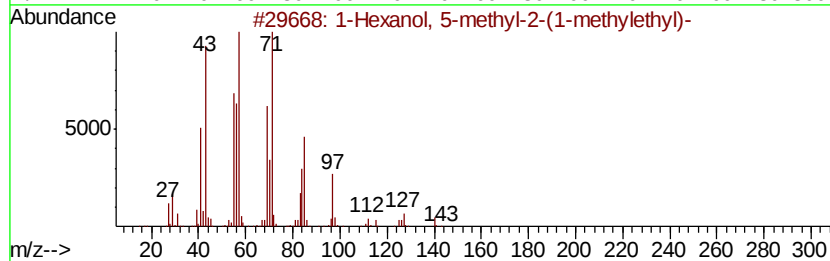
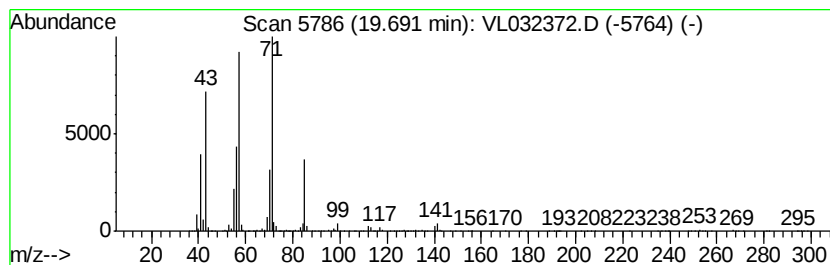
Instrument :
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ClientSampleId :
DUP1-MIVI

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

Peak Number 14 1-Hexanol, 5-methyl-2-(1-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
19.69	7.94 ppbv	9257860	Chlorobenzene-d5	12.31	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 5-methyl-2-(1-methyle...	158	C10H22O	002051-33-4	78
2	Undecane, 2,8-dimethyl-	184	C13H28	017301-25-6	64
3	Octane, 6-ethyl-2-methyl-	156	C11H24	062016-19-7	64
4	Octane, 3-ethyl-	142	C10H22	005881-17-4	50
5	Undecane, 4-methyl-	170	C12H26	002980-69-0	50



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081518\
Data File : VL032372.D
Acq On : 16 Aug 2018 5:16
Operator : SY/AP
Sample : J4457-08
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DUP1-MIVI

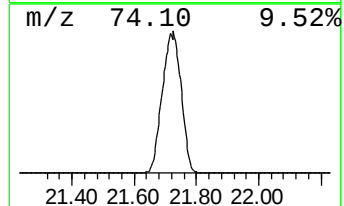
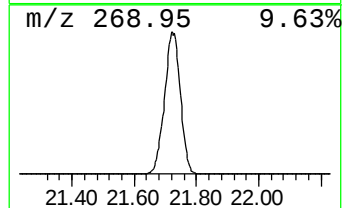
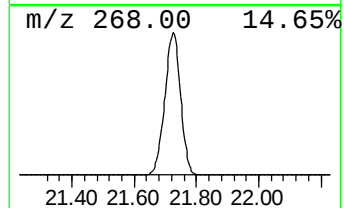
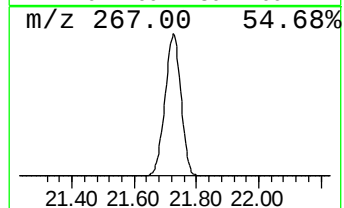
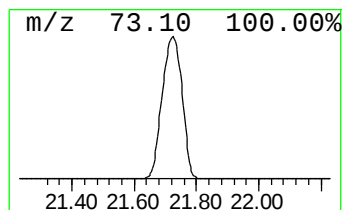
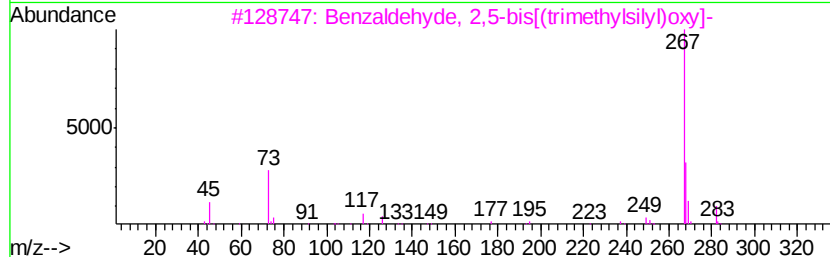
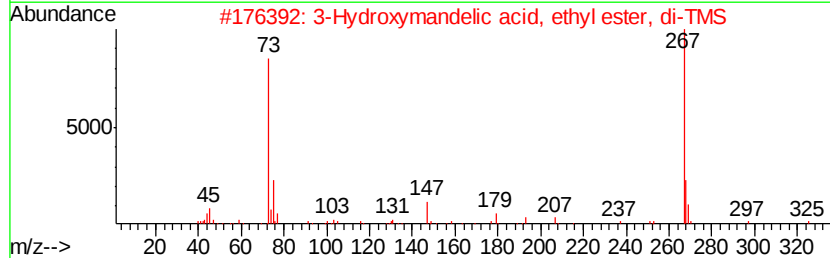
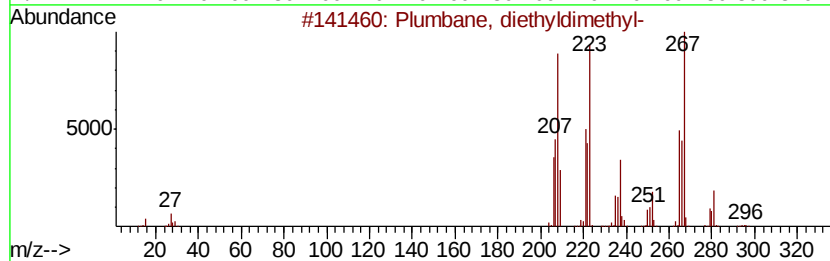
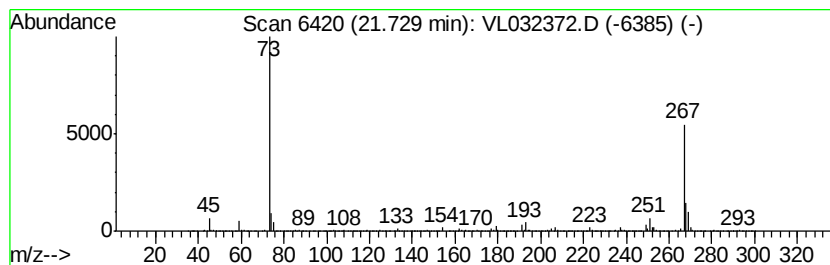
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018

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

Peak Number 15 Plumbane, diethyldimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.73	49.51 ppbv	57737600	Chlorobenzene-d5	12.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Plumbane, diethyldimethyl-	296	C6H16Pb	001762-27-2	87
2		3-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-88-9	56
3		Benzaldehyde, 2,5-bis(trimethyl...	282	C13H22O3Si2	056114-69-3	50
4		2-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-88-8	50
5		Benzaldehyde, 2,4-bis(trimethyls...	282	C13H22O3Si2	033617-38-8	50



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081518\
Data File : VL032372.D
Acq On : 16 Aug 2018 5:16
Operator : SY/AP
Sample : J4457-08
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DUP1-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	12.3	ppbv	11380600	1	5.82	9225200	10.0
Pentane	4.23	68.5	ppbv	63205200	1	5.82	9225200	10.0
unknown10.83	10.83	66.8	ppbv	77948600	3	12.31	11661700	10.0
(1R)-2,6,6-Trimet...	15.54	13.2	ppbv	15403500	3	12.31	11661700	10.0
D-Limonene	18.19	48.1	ppbv	56117600	3	12.31	11661700	10.0
Hexane, 3,3-dimet...	18.59	19.0	ppbv	22182300	3	12.31	11661700	10.0
Heptane, 5-ethyl-...	19.14	8.9	ppbv	10409200	3	12.31	11661700	10.0
Octane, 2,6-dimet...	19.29	11.3	ppbv	13216200	3	12.31	11661700	10.0
1-Hexanol, 5-meth...	19.69	7.9	ppbv	9257860	3	12.31	11661700	10.0
Plumbane, diethyl...	21.73	49.5	ppbv	57737600	3	12.31	11661700	10.0