

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042425.D
 Acq On : 28 Apr 2025 14:34
 Operator : SY/MD
 Sample : Q1665-22
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-3242025

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\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042425.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	420	rBV	4482212	5135429	100.00%	33.531%
2	1.486	427	432	434	rBV3	114243	65451	1.27%	0.427%
3	1.557	450	454	459	rBV	392491	212777	4.14%	1.389%
4	1.619	470	473	478	rVB	183387	106932	2.08%	0.698%
5	1.719	500	504	510	rBV	1184701	722250	14.06%	4.716%
6	1.835	535	540	549	rBV2	720522	622291	12.12%	4.063%
7	1.884	549	555	568	rVV	849343	577036	11.24%	3.768%
8	1.962	574	579	584	rBV2	111978	76967	1.50%	0.503%
9	2.470	731	736	743	rVB	85106	89097	1.73%	0.582%
10	2.622	777	783	793	rVB3	58541	61796	1.20%	0.403%
11	2.787	825	834	840	rBV	503882	529937	10.32%	3.460%
12	2.823	840	845	858	rVB2	241748	277679	5.41%	1.813%
13	3.227	962	970	978	rVB2	45399	60561	1.18%	0.395%
14	3.654	1087	1102	1109	rBV4	41033	72508	1.41%	0.473%
15	3.955	1183	1195	1211	rBV	674451	1069178	20.82%	6.981%
16	4.049	1214	1224	1232	rBV2	46905	82164	1.60%	0.536%
17	4.263	1278	1290	1303	rBV5	65234	130961	2.55%	0.855%
18	4.638	1393	1406	1425	rVB2	99200	221642	4.32%	1.447%
19	4.975	1498	1510	1523	rVB4	39478	81903	1.59%	0.535%
20	6.826	2080	2082	2097	rVV5	45571	68671	1.34%	0.448%
21	6.930	2099	2114	2133	rVB3	333234	709144	13.81%	4.630%
22	7.687	2338	2348	2365	rVB4	80559	141385	2.75%	0.923%
23	8.299	2529	2537	2551	rVB10	38974	82307	1.60%	0.537%
24	8.878	2701	2716	2726	rBV2	860002	1263575	24.61%	8.250%
25	9.354	2854	2863	2874	rBV	63902	96513	1.88%	0.630%
26	9.529	2908	2917	2933	rVB3	150413	282843	5.51%	1.847%
27	9.959	3036	3050	3064	rBV3	89900	159657	3.11%	1.042%
28	10.374	3163	3178	3190	rBV	1135230	1374713	26.77%	8.976%
29	10.856	3318	3327	3335	rBV2	149165	171668	3.34%	1.121%
30	11.092	3392	3400	3405	rBV	66859	74429	1.45%	0.486%
31	11.532	3528	3536	3546	rVB	96734	123135	2.40%	0.804%
32	11.752	3598	3604	3606	rBV2	69225	70508	1.37%	0.460%
33	11.775	3606	3611	3619	rVB2	200288	234316	4.56%	1.530%
34	12.040	3686	3693	3702	rVB6	58535	69678	1.36%	0.455%
35	12.827	3929	3936	3942	rBV2	85196	87925	1.71%	0.574%
36	13.384	4101	4108	4115	rVB2	106361	108457	2.11%	0.708%

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Instrument :
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ClientSampleId :
IA-B2-4-3242025

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\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

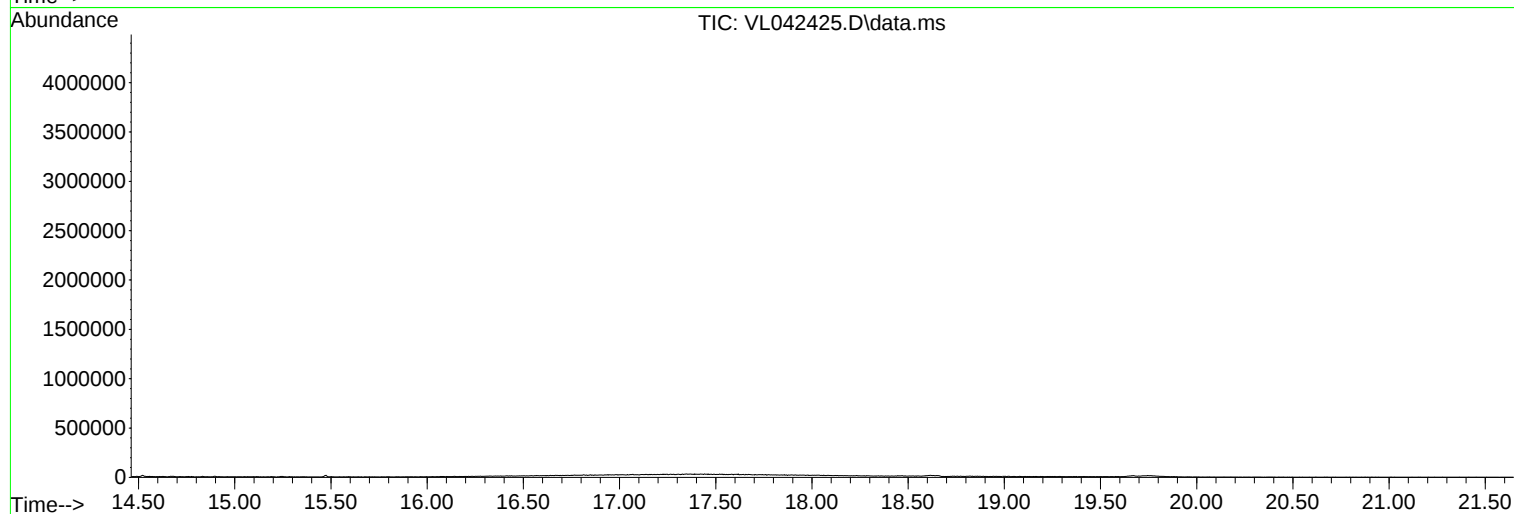
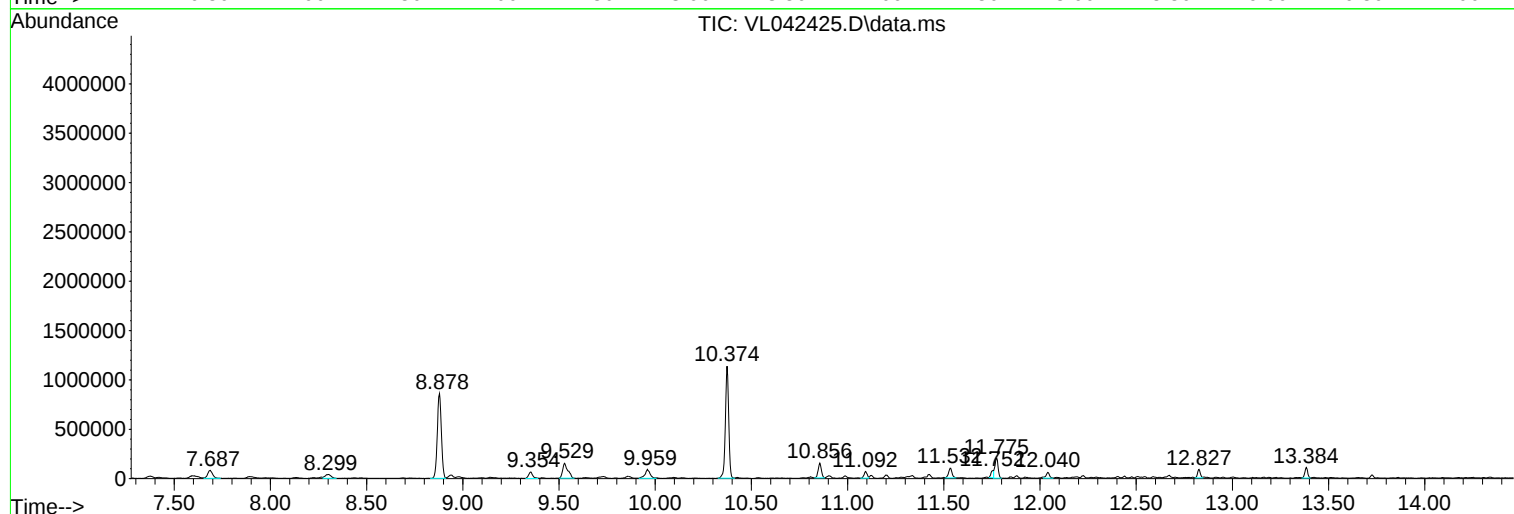
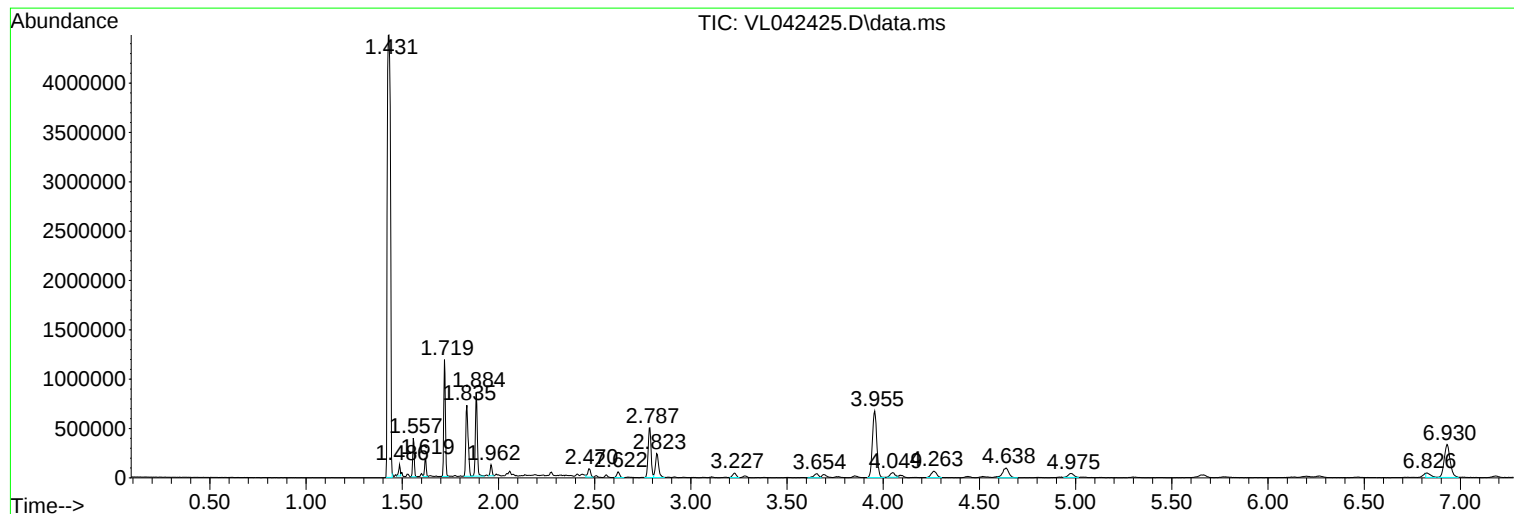
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



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Misc : 400mL/MSVOA_L
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Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

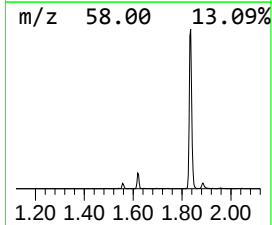
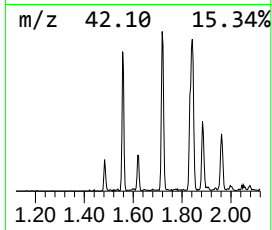
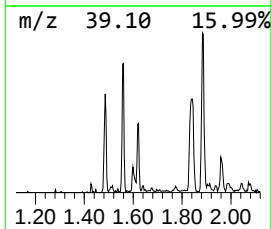
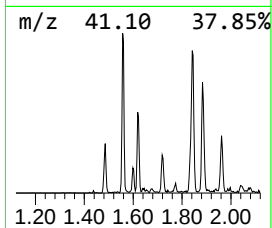
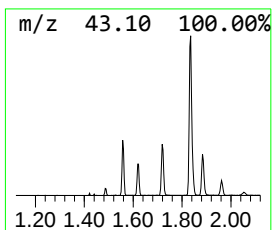
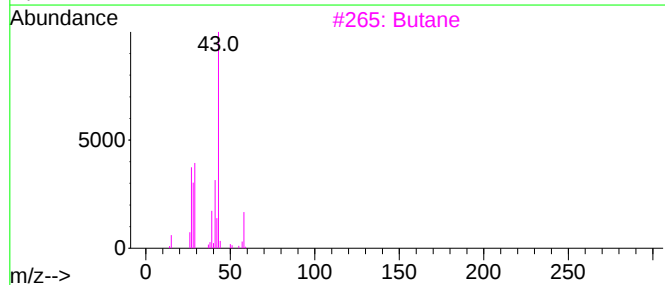
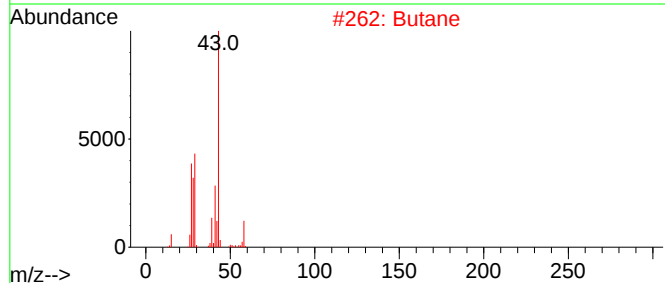
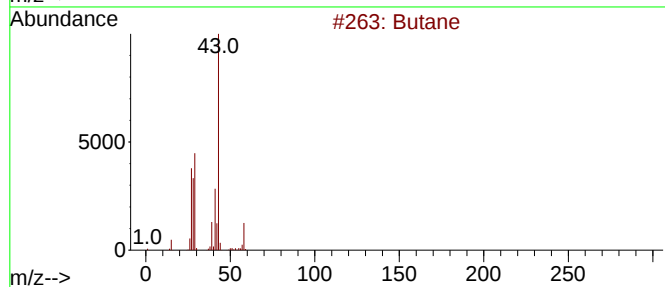
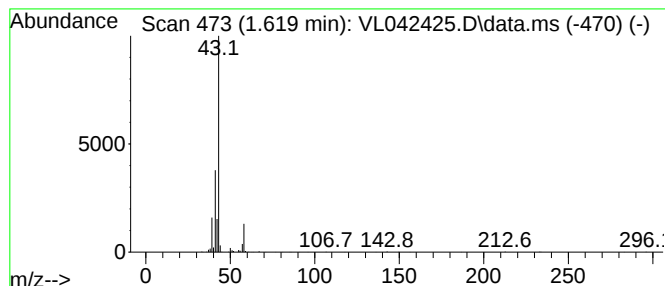
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.619	2.02 ppbv	106932	Bromochloromethane	2.784

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	Butane			58	C4H10	000106-97-8	72
5	Isobutane			58	C4H10	000075-28-5	32



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Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

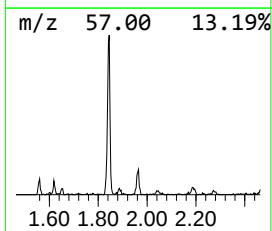
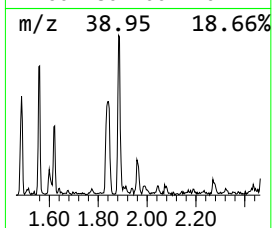
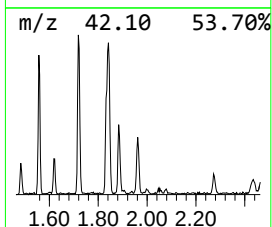
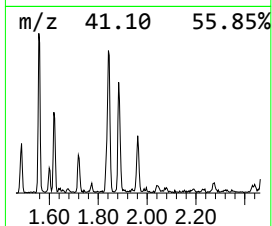
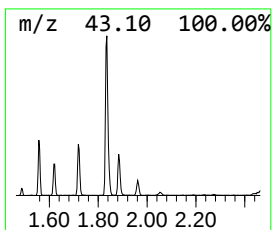
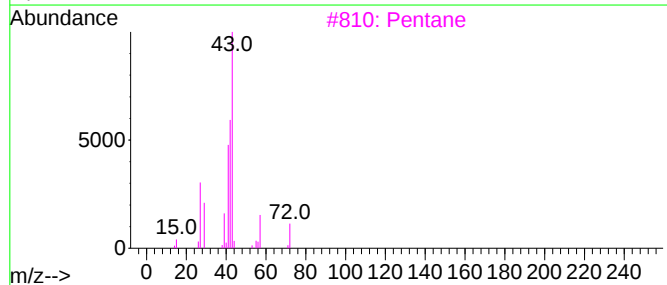
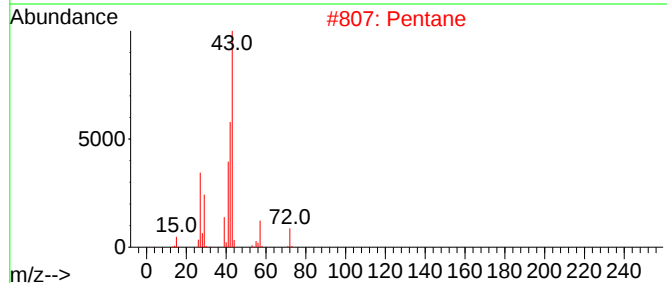
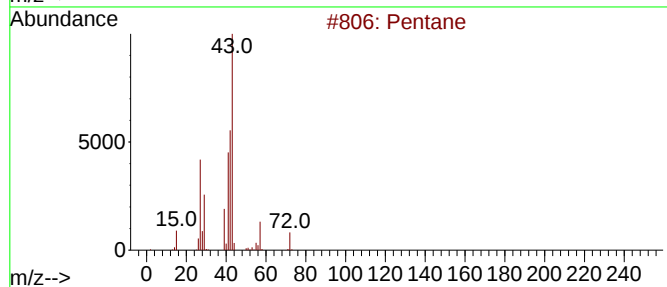
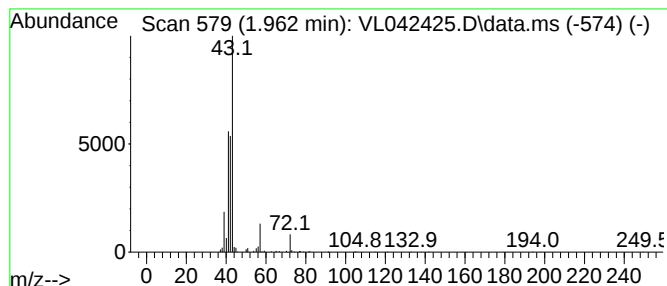
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TIC Library : C:\Database\NIST20.L
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Peak Number 2 Pentane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.962	1.45 ppbv	76967	Bromochloromethane	2.784

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane			72	C5H12	000109-66-0	78
2	Pentane			72	C5H12	000109-66-0	72
3	Pentane			72	C5H12	000109-66-0	72
4	Pentane			72	C5H12	000109-66-0	59
5	Oxirane, ethyl-			72	C4H8O	000106-88-7	53



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Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
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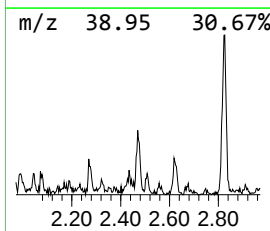
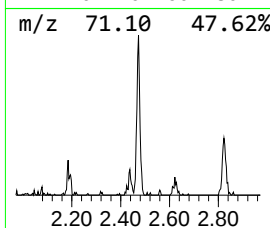
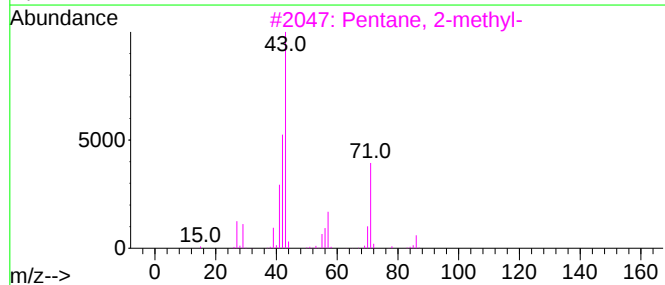
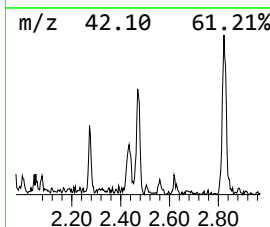
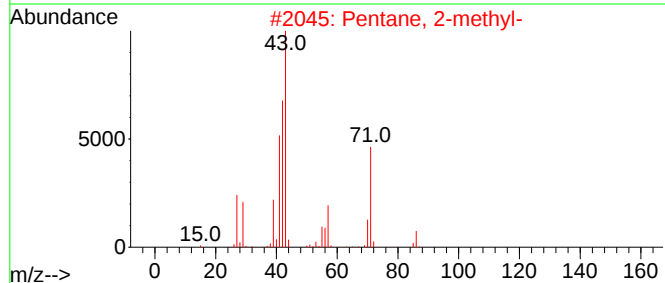
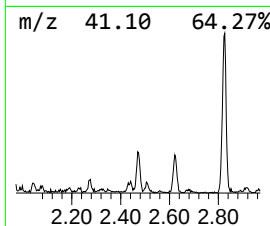
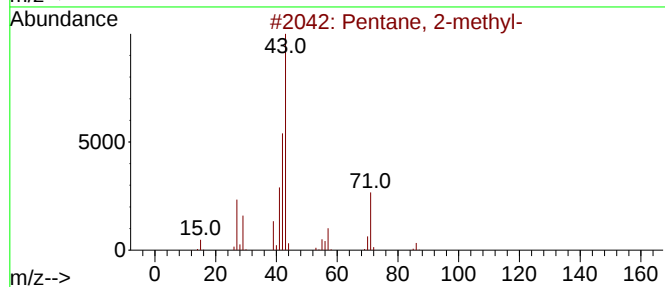
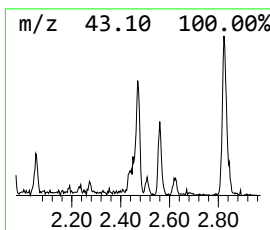
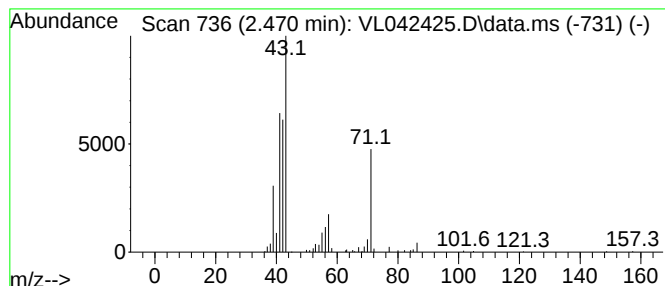
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Pentane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.470	1.68 ppbv	89097	Bromochloromethane	2.784

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	78
2			Pentane, 2-methyl-	86	C6H14	000107-83-5	78
3			Pentane, 2-methyl-	86	C6H14	000107-83-5	72
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	64
5			Pentane, 2-methyl-	86	C6H14	000107-83-5	59



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Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

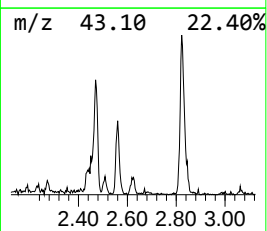
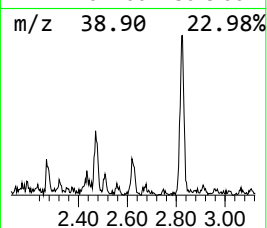
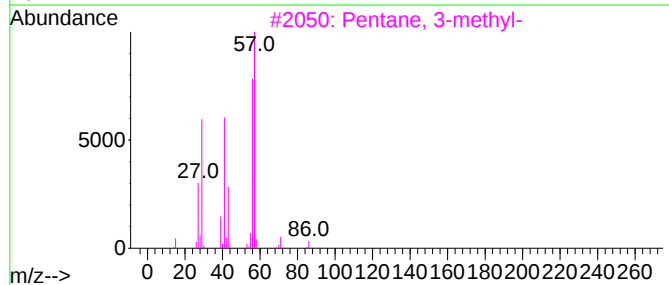
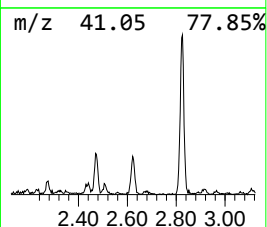
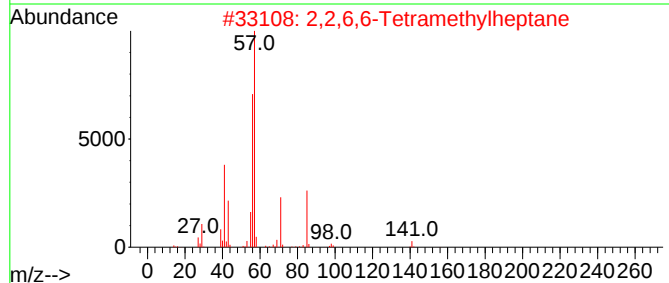
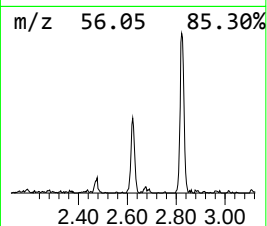
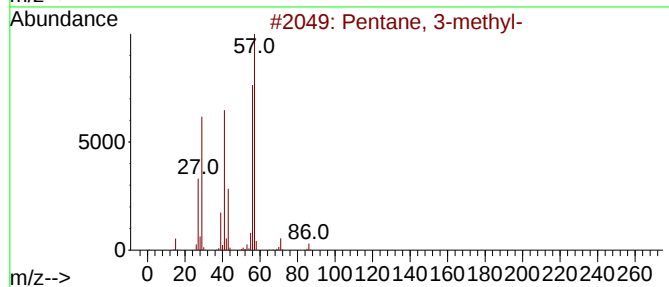
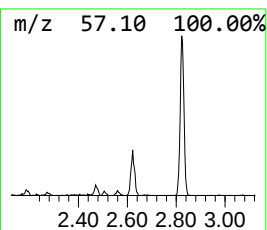
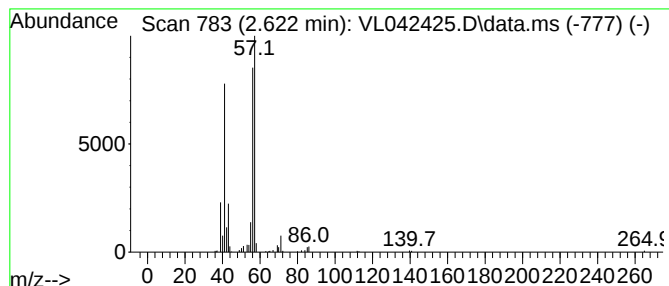
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.622	1.17 ppbv	61796	Bromochloromethane	2.784

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 3-methyl-	86	C6H14	000096-14-0	86
2			2,2,6,6-Tetramethylheptane	156	C11H24	040117-45-1	72
3			Pentane, 3-methyl-	86	C6H14	000096-14-0	72
4			Pentane, 3-methyl-	86	C6H14	000096-14-0	64
5			Oxirane, 2-methyl-3-(1-methyleth...	100	C6H12O	001192-31-0	64



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Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

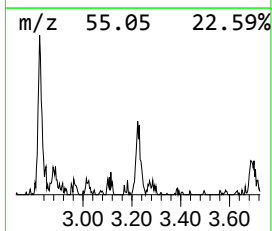
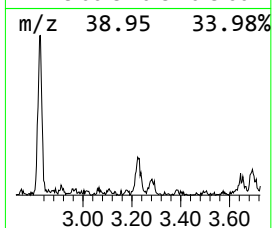
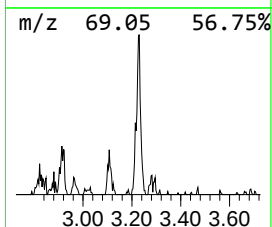
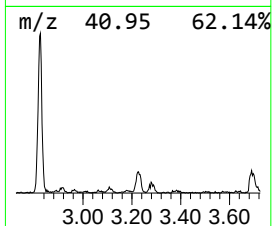
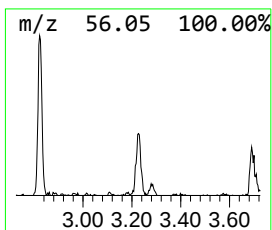
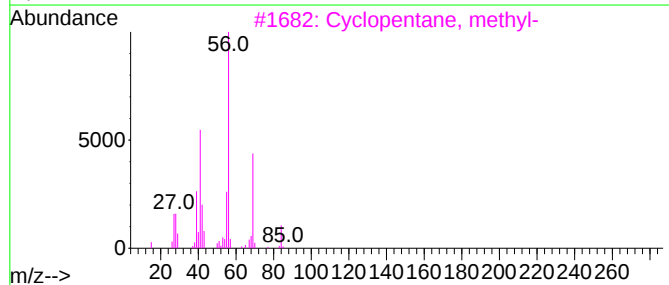
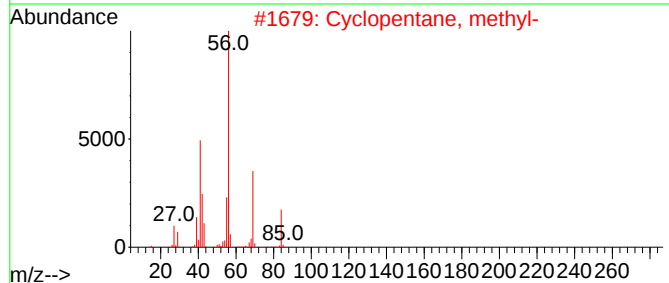
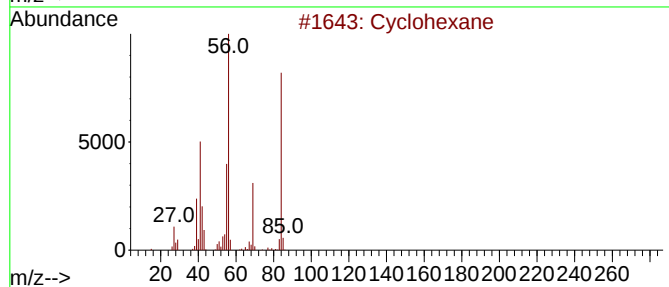
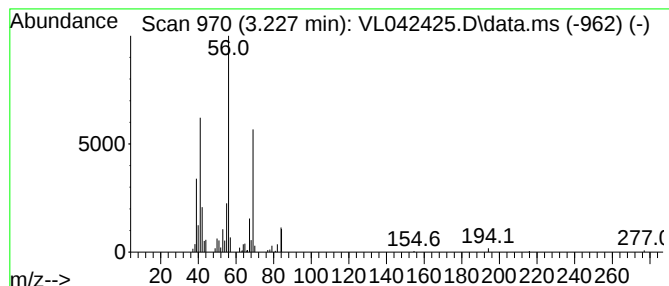
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Cyclopentane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.227	1.14 ppbv	60561	Bromochloromethane	2.784

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane	84	C6H12	000110-82-7	72
2			Cyclopentane, methyl-	84	C6H12	000096-37-7	72
3			Cyclopentane, methyl-	84	C6H12	000096-37-7	72
4			Cyclopentane, methyl-	84	C6H12	000096-37-7	64
5			Cyclopentane, methyl-	84	C6H12	000096-37-7	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

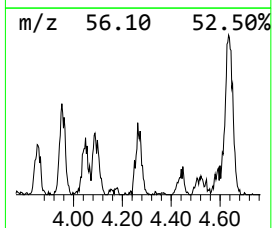
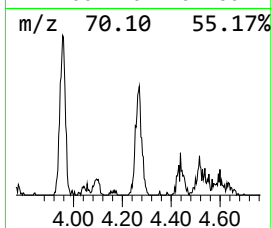
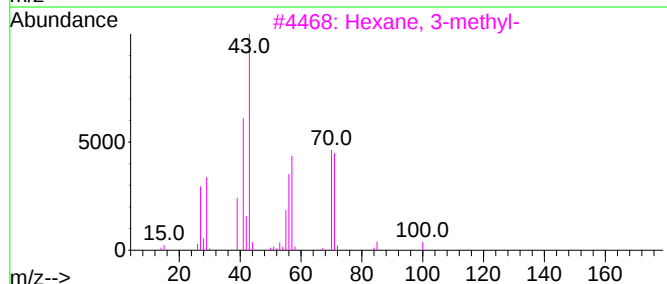
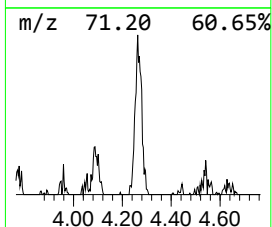
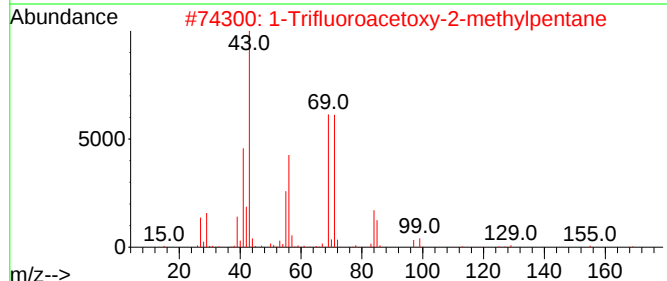
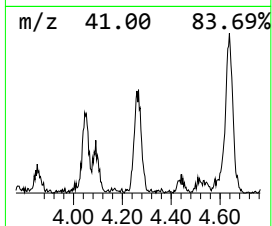
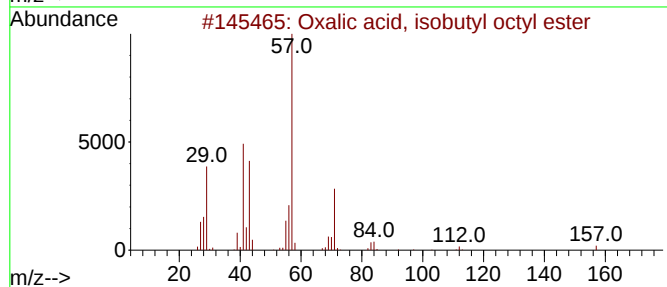
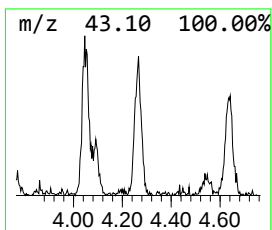
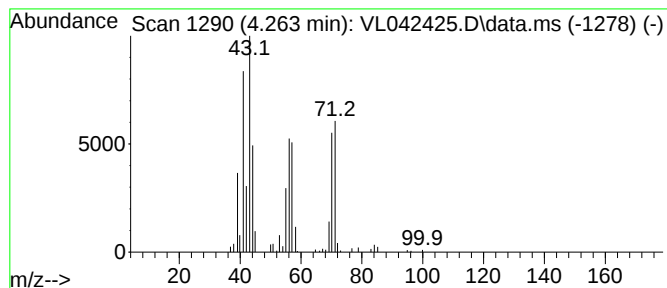
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 unknown4.263 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.263	1.22 ppbv	130961	1,4-Difluorobenzene	3.955

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Oxalic acid, isobutyl octyl ester	258	C14H26O4	1000309-37-3	47
2			1-Trifluoroacetoxy-2-methylpentane	198	C8H13F3O2	155089-96-6	43
3			Hexane, 3-methyl-	100	C7H16	000589-34-4	42
4			Hexane, 3-methyl-	100	C7H16	000589-34-4	40
5			Hexane, 3-ethyl-4-methyl-	128	C9H20	003074-77-9	37



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

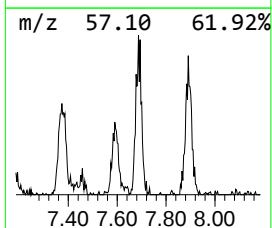
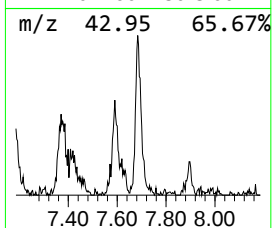
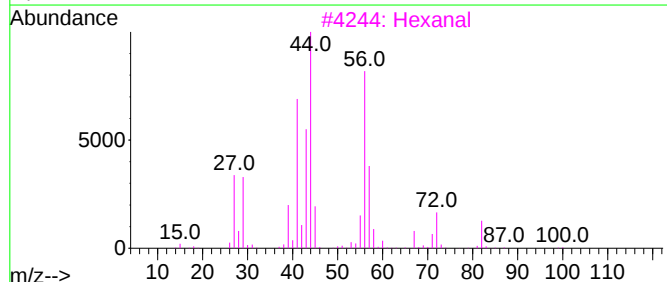
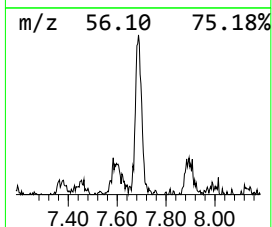
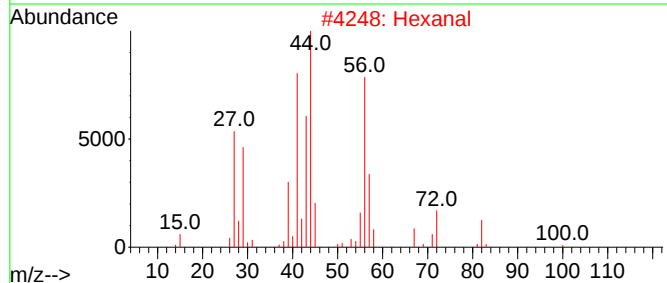
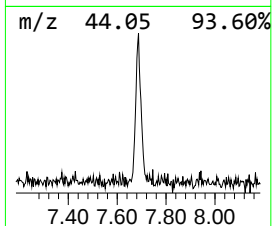
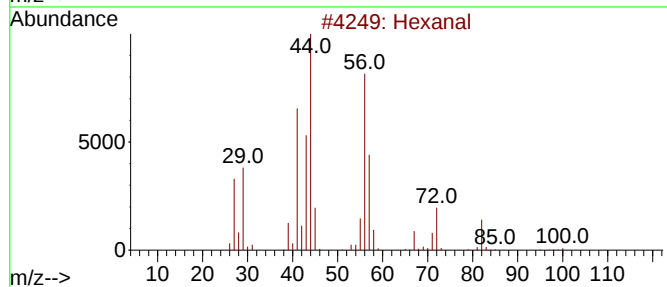
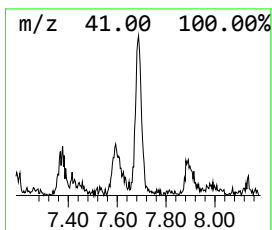
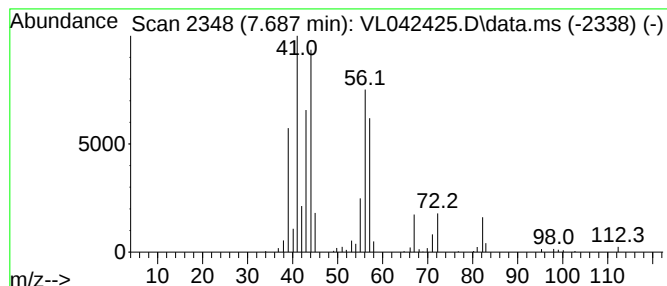
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Hexanal Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.687	1.12 ppbv	141385	Chlorobenzene-d5	8.878

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal			100	C6H12O	000066-25-1	74
2	Hexanal			100	C6H12O	000066-25-1	45
3	Hexanal			100	C6H12O	000066-25-1	45
4	Hexanal			100	C6H12O	000066-25-1	40
5	1-Propene, 2-methyl-			56	C4H8	000115-11-7	35



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042425.D
Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

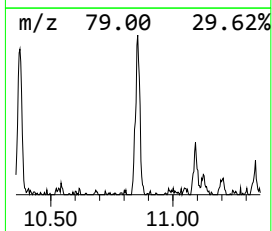
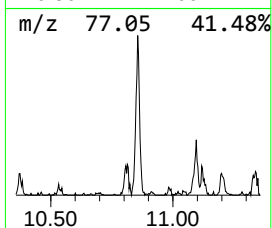
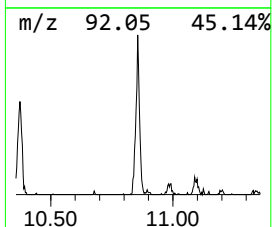
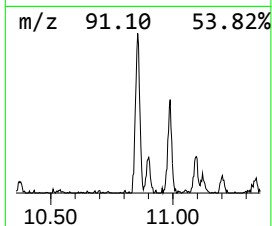
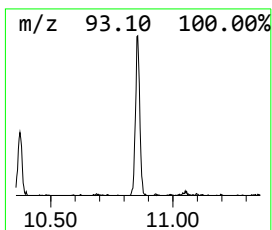
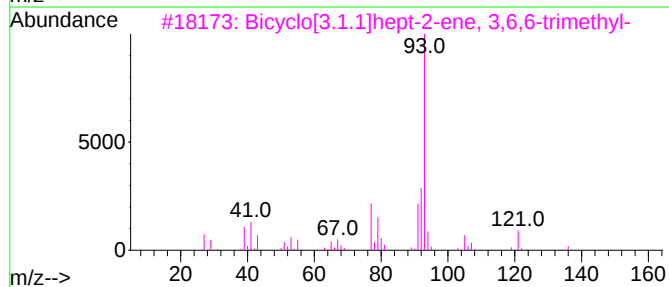
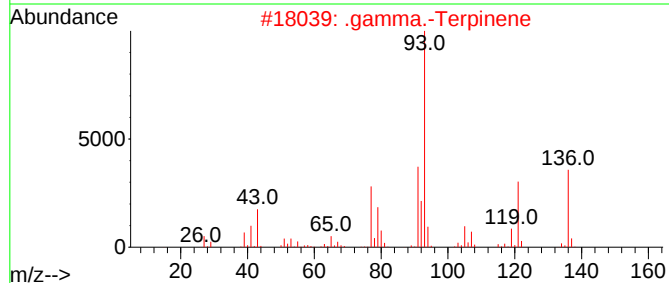
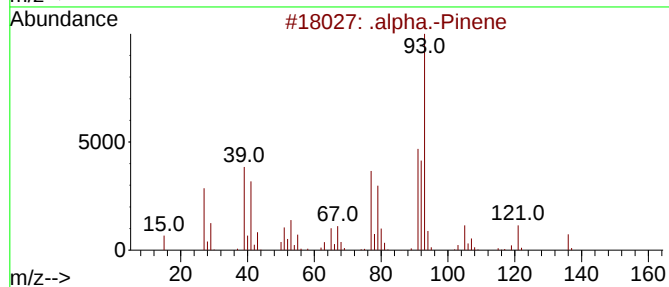
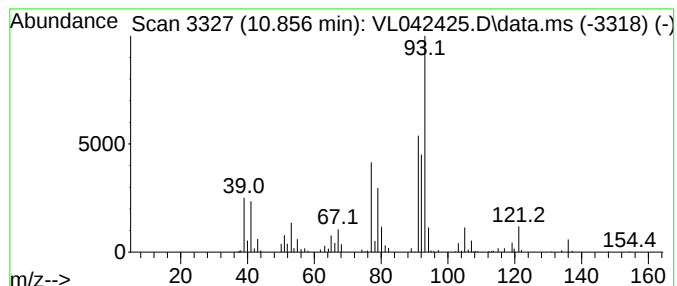
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 .alpha.-Pinene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.856	1.36 ppbv	171668	Chlorobenzene-d5	8.878

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	.		.alpha.-Pinene	136	C10H16	000080-56-8	94
2	.		.gamma.-Terpinene	136	C10H16	000099-85-4	90
3	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...			136	C10H16	004889-83-2	87
4	.		.gamma.-Terpinene	136	C10H16	000099-85-4	87
5	(1S)-2,6,6-Trimethylbicyclo[3.1....			136	C10H16	007785-26-4	86



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
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Acq On : 28 Apr 2025 14:34
Operator : SY/MD
Sample : Q1665-22
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane	1.619	2.0	ppbv	106932	1	2.784	529937	10.0
Pentane	1.962	1.5	ppbv	76967	1	2.784	529937	10.0
Pentane, 2-methyl-	2.470	1.7	ppbv	89097	1	2.784	529937	10.0
Pentane, 3-methyl-	2.622	1.2	ppbv	61796	1	2.784	529937	10.0
Cyclopentane, m...	3.227	1.1	ppbv	60561	1	2.784	529937	10.0
unknown4.263	4.263	1.2	ppbv	130961	2	3.955	1069180	10.0
Hexanal	7.687	1.1	ppbv	141385	3	8.878	1263580	10.0
.alpha.-Pinene	10.856	1.4	ppbv	171668	3	8.878	1263580	10.0