LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.995	61	69	85	rVB	119166	178959	2.47%	0.750%
2	3.818	618	636	676	rBV2	201820	537540	7.42%	2.254%
3	4.793	902	939	993	rBV	1530895	5546303	76.56%	23.256%
4	5.047	1004	1018	1041	rVB3	21856	78560	1.08%	0.329%
5	6.831	1544	1573	1616	rBV	2379136	7244297	100.00%	30.375%
6	7.210	1669	1691	1724	rBV2	954091	2739803	37.82%	11.488%
7	8.030	1927	1946	1966	rBV2	194453	513130	7.08%	2.152%
8	8.136	1967	1979	1995	rVB4	58098	140614	1.94%	0.590%
9	8.583	2103	2118	2150	rVB	352398	744714	10.28%	3.123%
10	9.982	2535	2553	2574	rBV2	70826	151066	2.09%	0.633%
11	10.091	2574	2587	2600	rVV	549454	1037646	14.32%	4.351%
12	10.156	2600	2607	2613	rVV	52372	97188	1.34%	0.408%
13	10.194	2613	2619	2632	rVB	62683	114343	1.58%	0.479%
14	10.718	2766	2782	2805	rVV	209750	403928	5.58%	1.694%
15	10.850	2811	2823	2847	rVB8	26895	88171	1.22%	0.370%
16	11.406	2983	2996	3016	rBV	452457	842537	11.63%	3.533%
17	11.503	3016	3026	3045	rVB5	52335	127941	1.77%	0.536%
18	11.619	3047	3062	3071	rBV	114481	229279	3.16%	0.961%
19	11.947	3153	3164	3180	rVB	121126	213011	2.94%	0.893%
20	12.400	3294	3305	3327	rVV	338528	583107	8.05%	2.445%
21	13.165	3530	3543	3554	rBV2	96132	165562	2.29%	0.694%
22	13.365	3596	3605	3618	rVV3	66999	121253	1.67%	0.508%
23	13.815	3734	3745	3755	rBV7	61991	130326	1.80%	0.546%
24	13.876	3756	3764	3777	rVB2	145435	240742	3.32%	1.009%
25	14.223	3857	3872	3889	rBV	499527	904122	12.48%	3.791%
26	14.808	4041	4054	4058	rBV6	87357	159279	2.20%	0.668%
27	14.847	4059	4066	4075	rVV2	199716	344568	4.76%	1.445%
28	14.898	4075	4082	4097	rVB6	86367	171320	2.36%	0.718%

Sum of corrected areas: 23849309

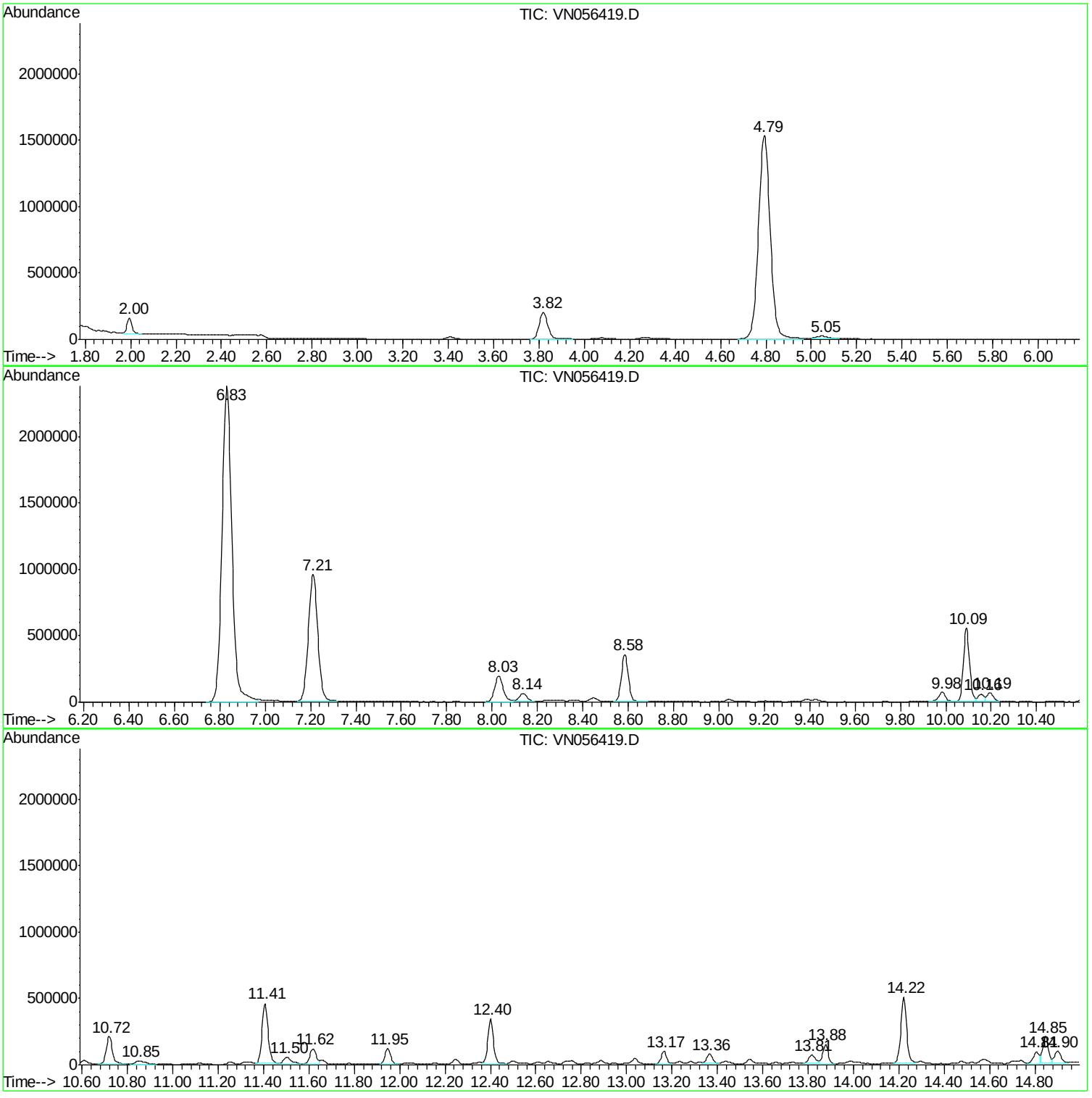
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

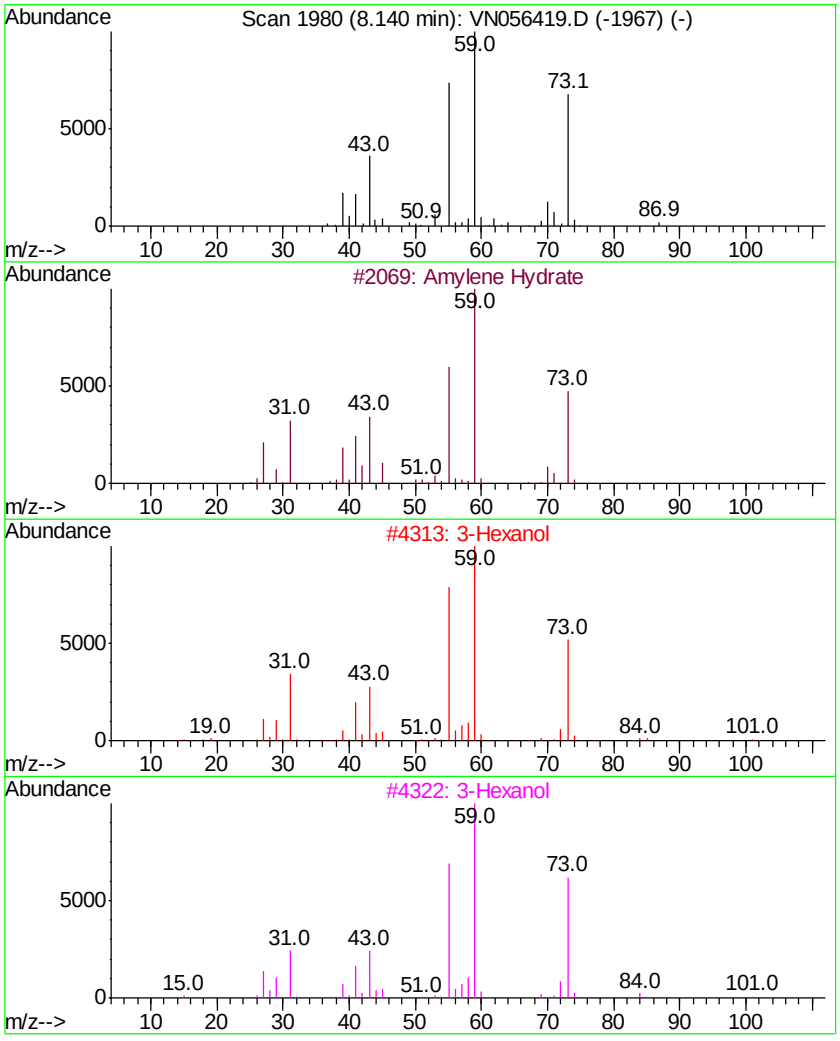
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

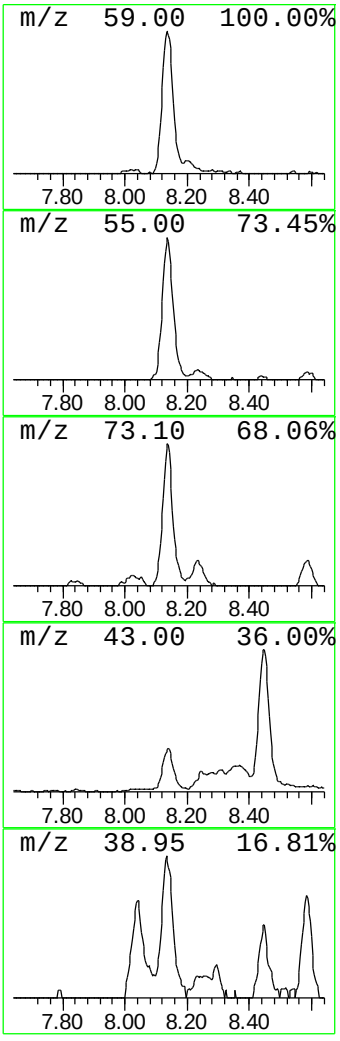
****

Peak Number 1 Amylene Hydrate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.14	5.66 ug/l	140614	1,4-Difluorobenzene	8.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Amylene Hydrate	88	C5H12O	000075-85-4	64
2	3-Hexanol	102	C6H14O	000623-37-0	56
3	3-Hexanol	102	C6H14O	000623-37-0	56
4	3-Hexanol	102	C6H14O	000623-37-0	50
5	Butanamide	87	C4H9NO	000541-35-5	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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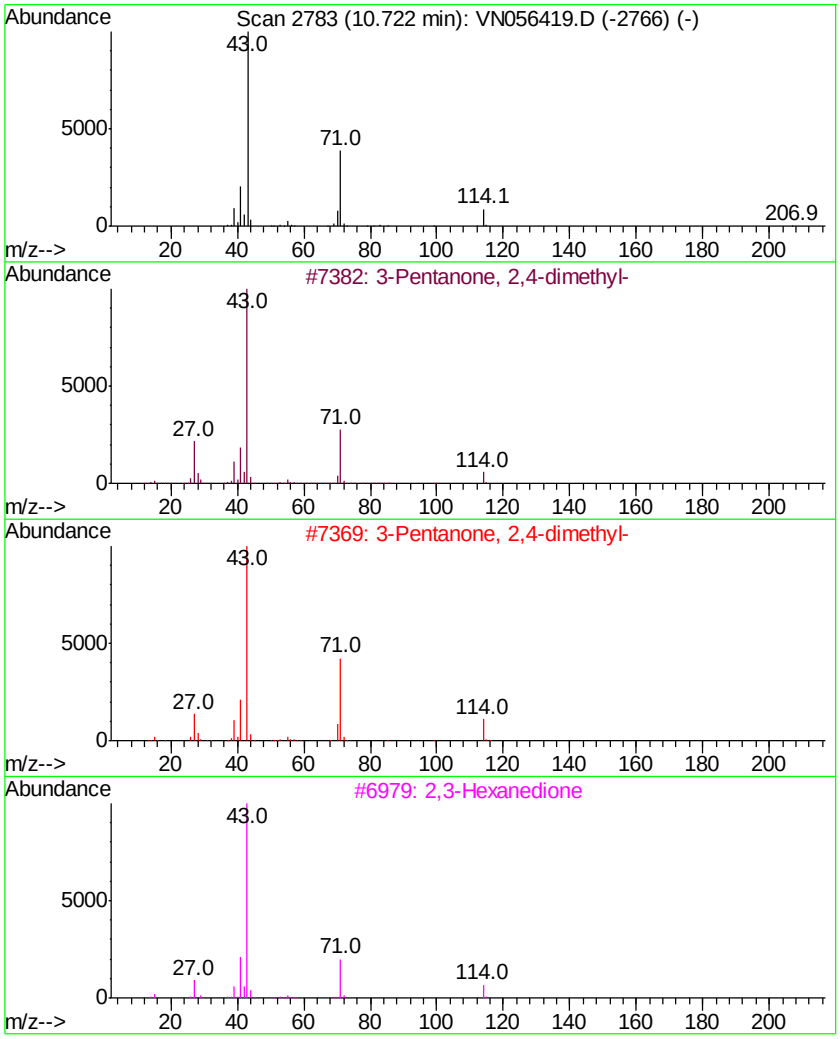
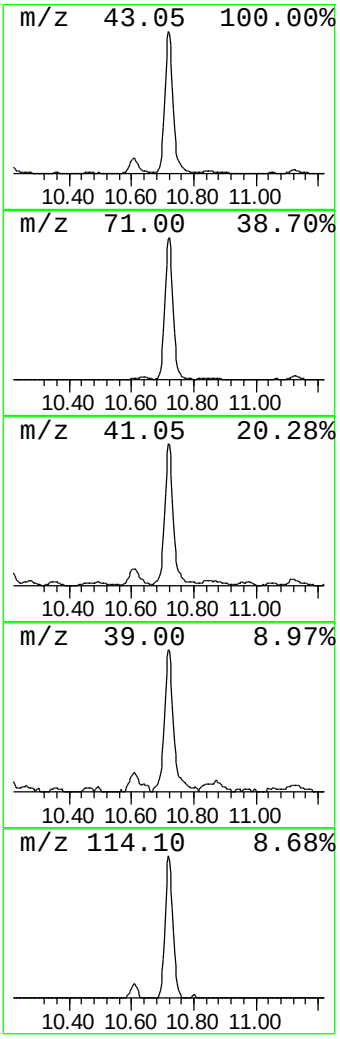
Peak Number 2 3-Pentanone, 2,4-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.72	14.38 ug/l	403928	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	90
2	3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	86
3	2,3-Hexanedione	114	C6H10O2	003848-24-6	64
4	3-Hexanone, 2-methyl-	114	C7H14O	007379-12-6	64
5	3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

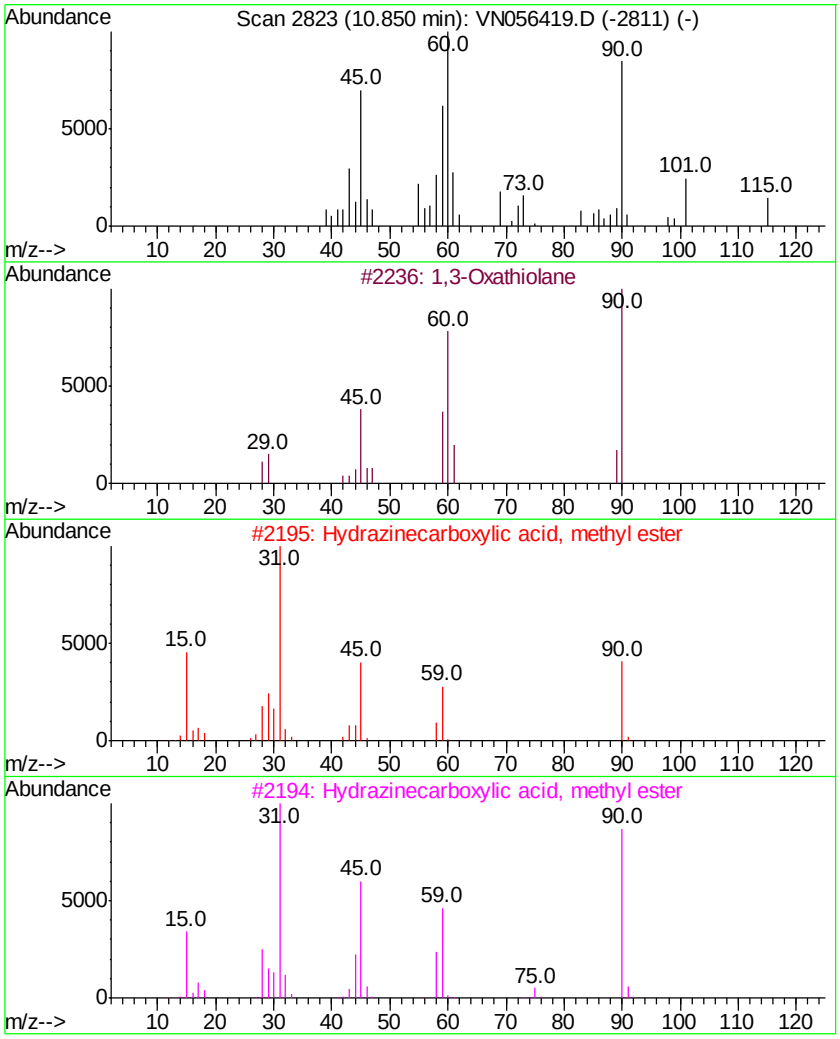
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

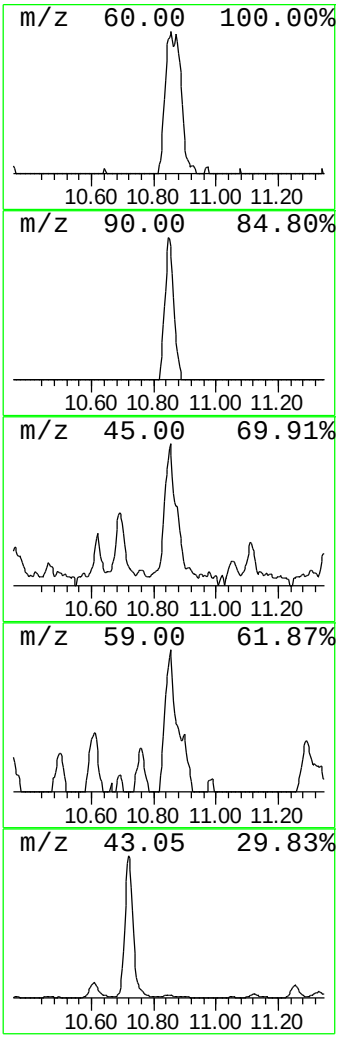
****

Peak Number 3 1,3-Oxathiolane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	3.14 ug/l	88171	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Oxathiolane	90	C3H6OS	002094-97-5	86
2	Hydrazinecarboxylic acid, methyl...	90	C2H6N2O2	006294-89-9	53
3	Hydrazinecarboxylic acid, methyl...	90	C2H6N2O2	006294-89-9	42
4	Hydrazine, (2-methoxyethyl)-	90	C3H10N2O	003044-15-3	38
5	Acrolein, 2-chloro-	90	C3H3ClO	000683-51-2	36





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

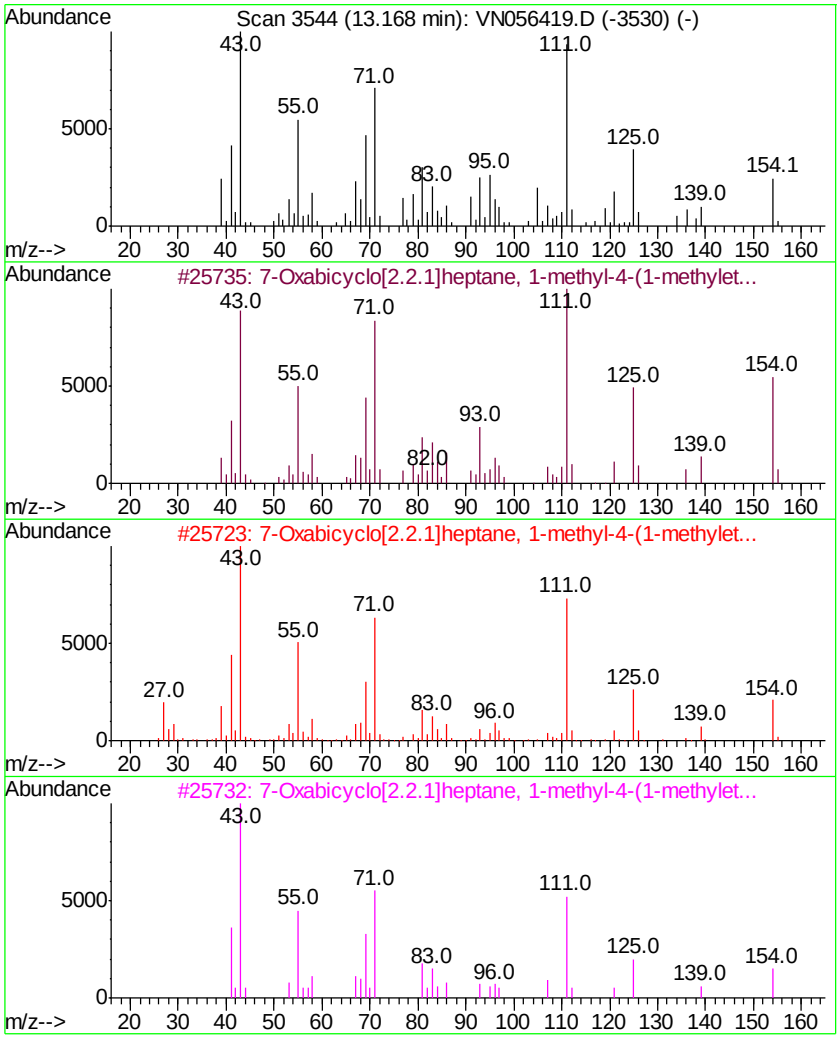
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

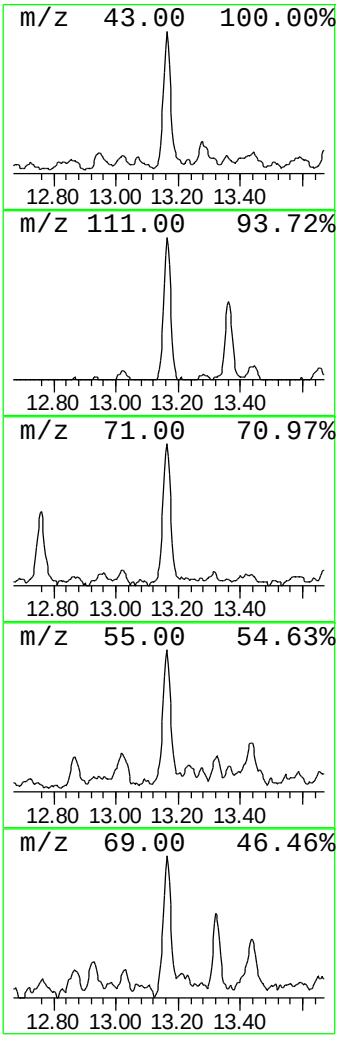
****

Peak Number 4 7-Oxabicyclo[2.2.1]heptane,... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	5.90 ug/l	165562	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	93
2	7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	91
3	7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	90
4	7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	68
5	4-Hepten-3-one, 2,5,6-trimethyl-	154	C10H18O	016466-21-0	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

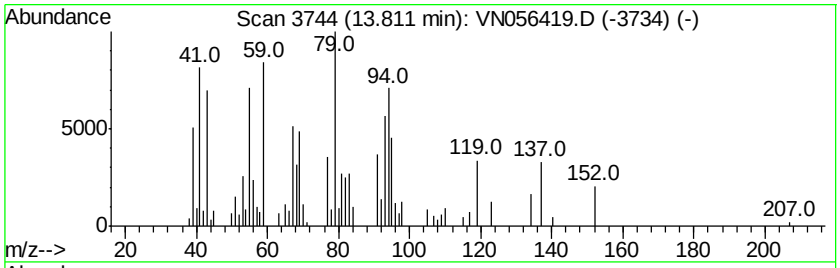
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

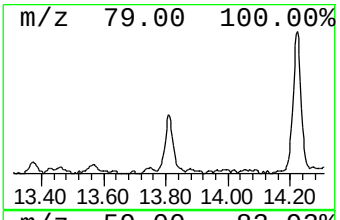
****

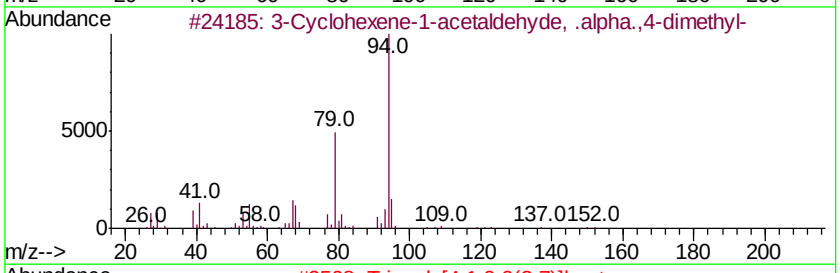
Peak Number 5 3-Cyclohexene-1-acetaldehyd... Concentration Rank 9

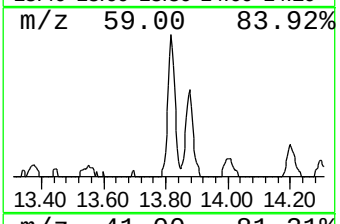
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.81	4.64 ug/l	130326	Chlorobenzene-d5	11.41

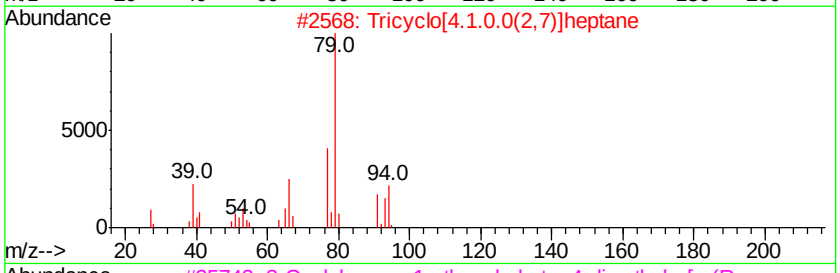
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Cyclohexene-1-acetaldehyde, .a...	152	C10H16O	029548-14-9	47
2	Tricyclo[4.1.0.0(2,7)]heptane	94	C7H10	000287-13-8	46
3	3-Cyclohexene-1-ethanol, .beta.,...	154	C10H18O	013835-75-1	43
4	Cyclopentene, 3-ethenyl-	94	C7H10	026727-45-7	30
5	1,3,5-Hexatriene, 3-methyl-, (Z)-	94	C7H10	024587-27-7	30

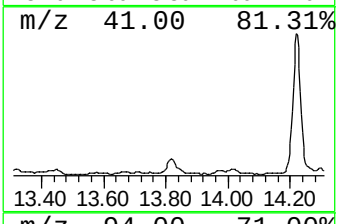


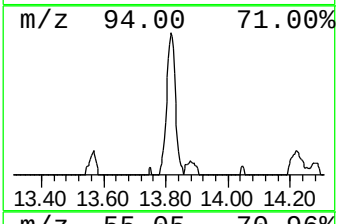


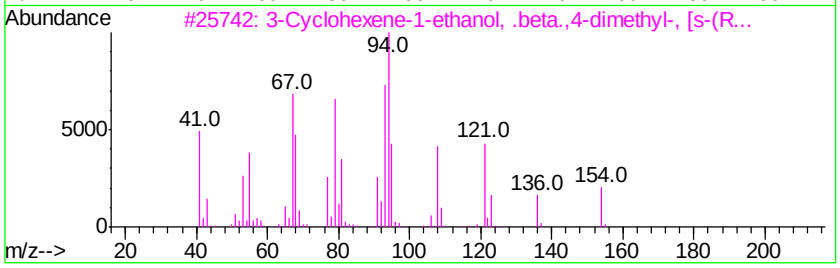


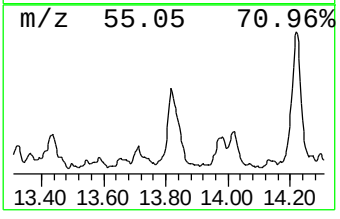












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

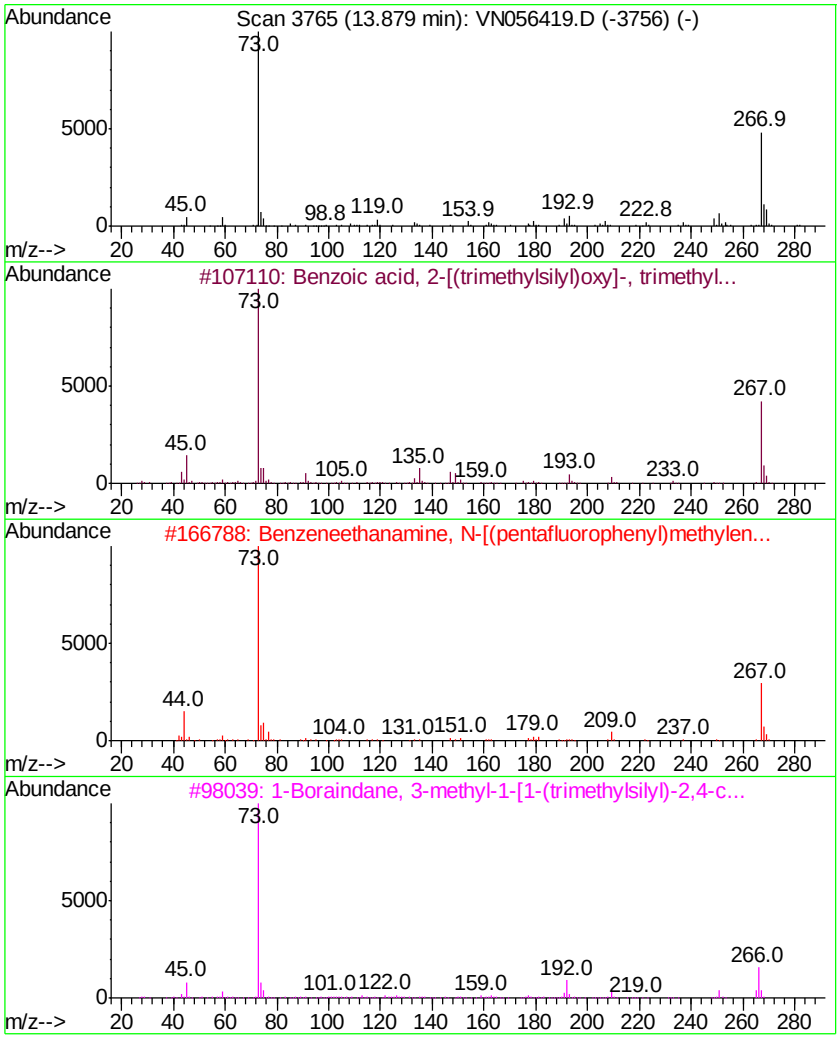
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

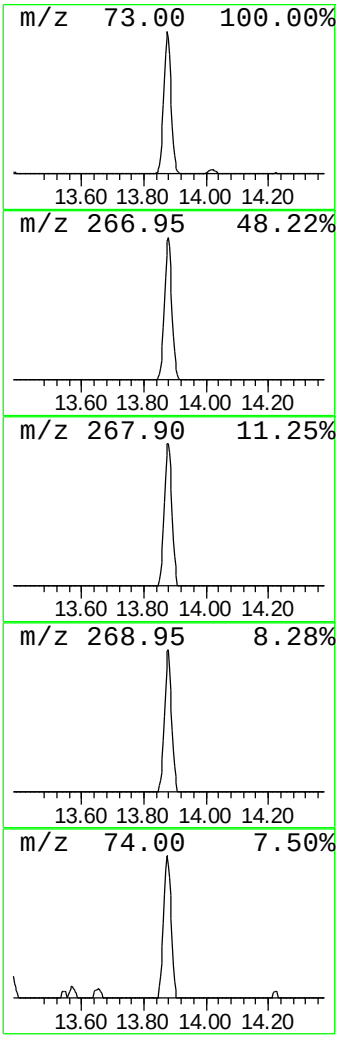
****

Peak Number 6 Benzoic acid, 2-[(trimethyl... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.88	8.57 ug/l	240742	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	39
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	32
3	1-Boraindane, 3-methyl-1-[1-(tri...	266	C17H23BSi	190316-36-0	14
4	Monobenzylidene-d-glucose	268	C13H16O6	1000127-04-3	9
5	1,3,5-Cycloheptatriene, 7-methyl...	254	C17H22Si	1000160-93-0	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
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Acq On : 21 Jun 2019 12:32
Operator : JC/SP
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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

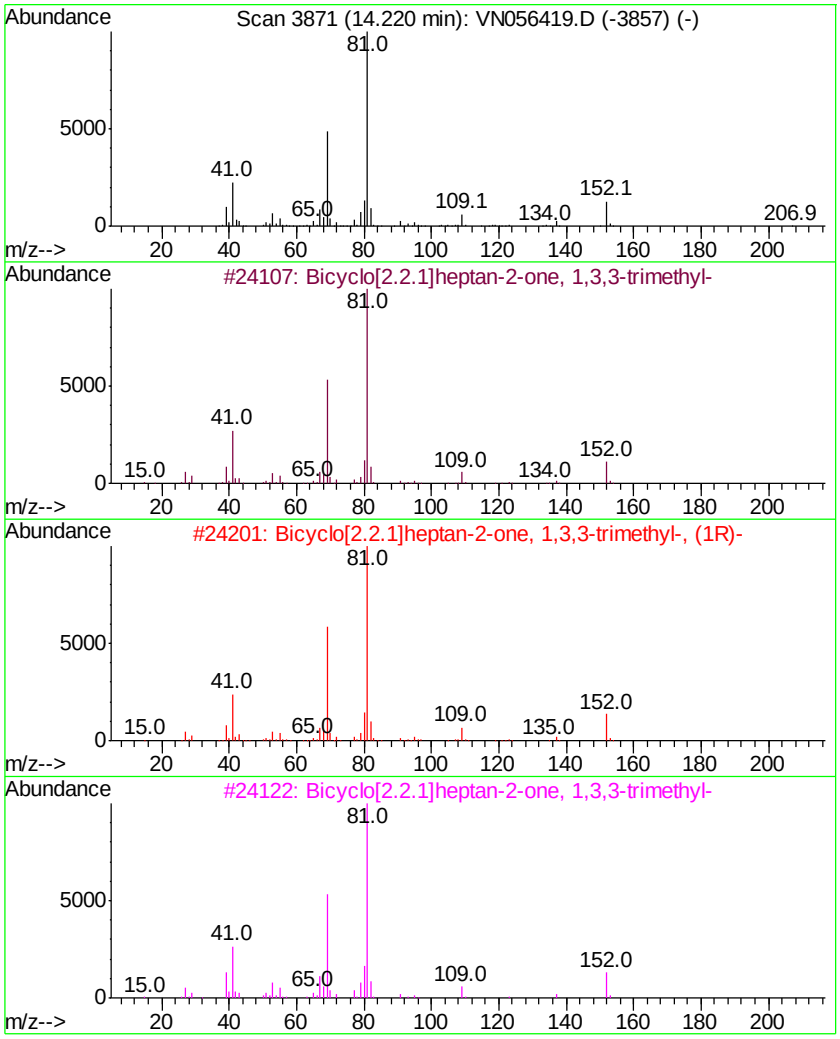
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

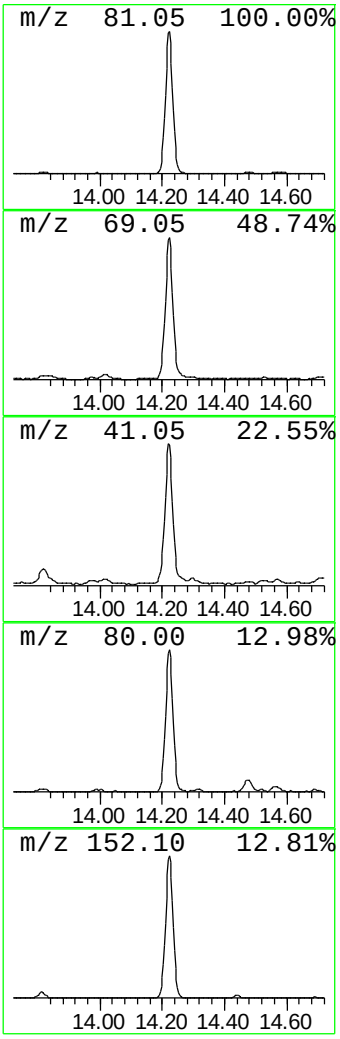
****

Peak Number 7 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.22	32.19 ug/l	904122	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-one, 1,3,...	152	C10H16O	004695-62-9	95
2	Bicyclo[2.2.1]heptan-2-one, 1,3,...	152	C10H16O	007787-20-4	95
3	Bicyclo[2.2.1]heptan-2-one, 1,3,...	152	C10H16O	001195-79-5	95
4	L-Fenchone	152	C10H16O	000126-21-6	95
5	Bicyclo[2.2.1]heptan-2-one, 1,3,...	152	C10H16O	004695-62-9	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

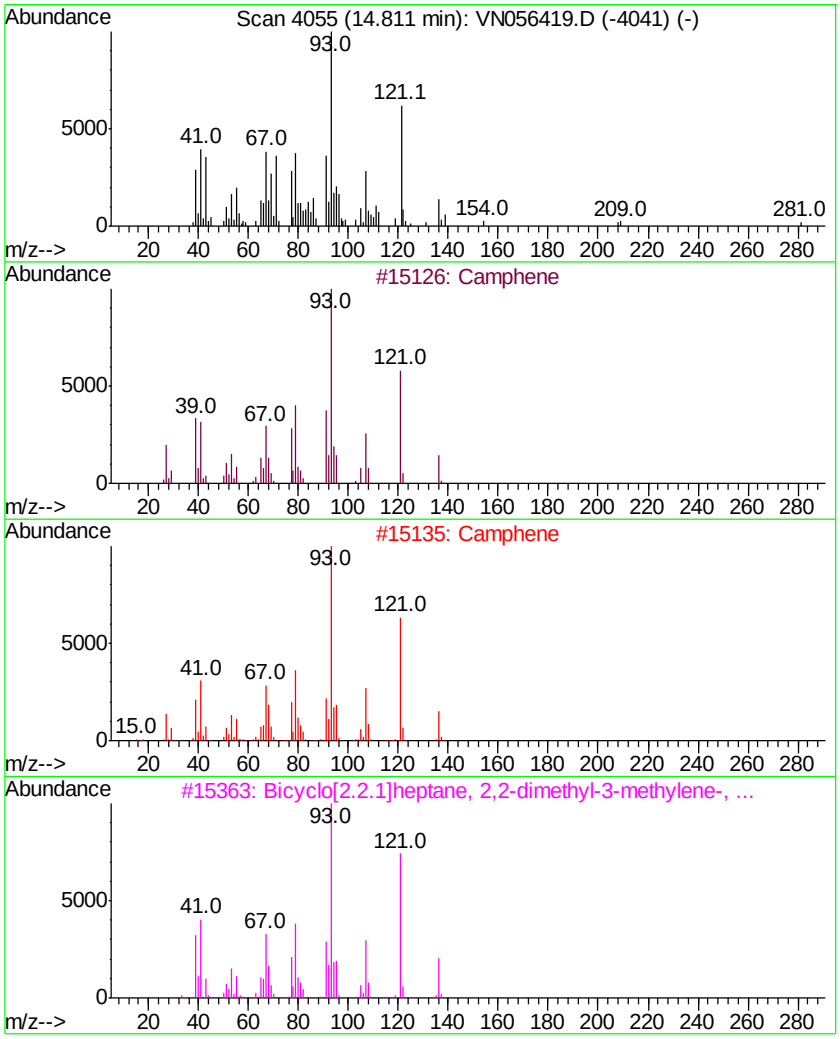
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

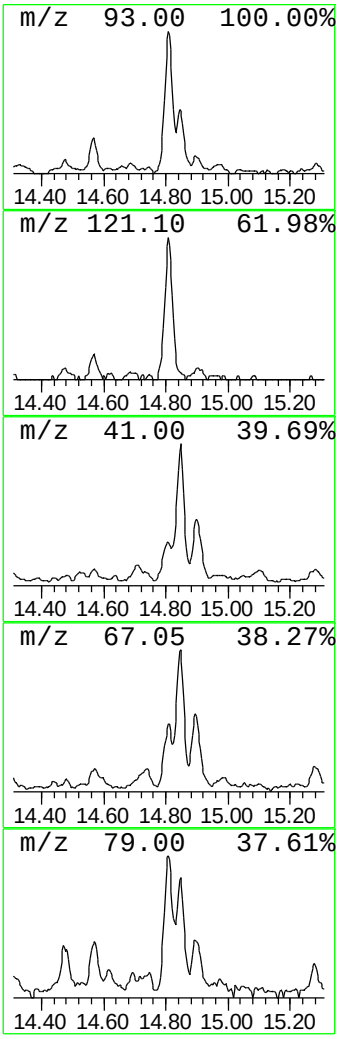
****

Peak Number 8 Camphene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.81	5.67 ug/l	159279	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Camphene	136	C10H16	000079-92-5	95
2	Camphene	136	C10H16	000079-92-5	91
3	Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-04-7	91
4	Camphene	136	C10H16	000079-92-5	91
5	Cyclohexene, 1-methyl-3-(1-methy...	136	C10H16	000499-03-6	62





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

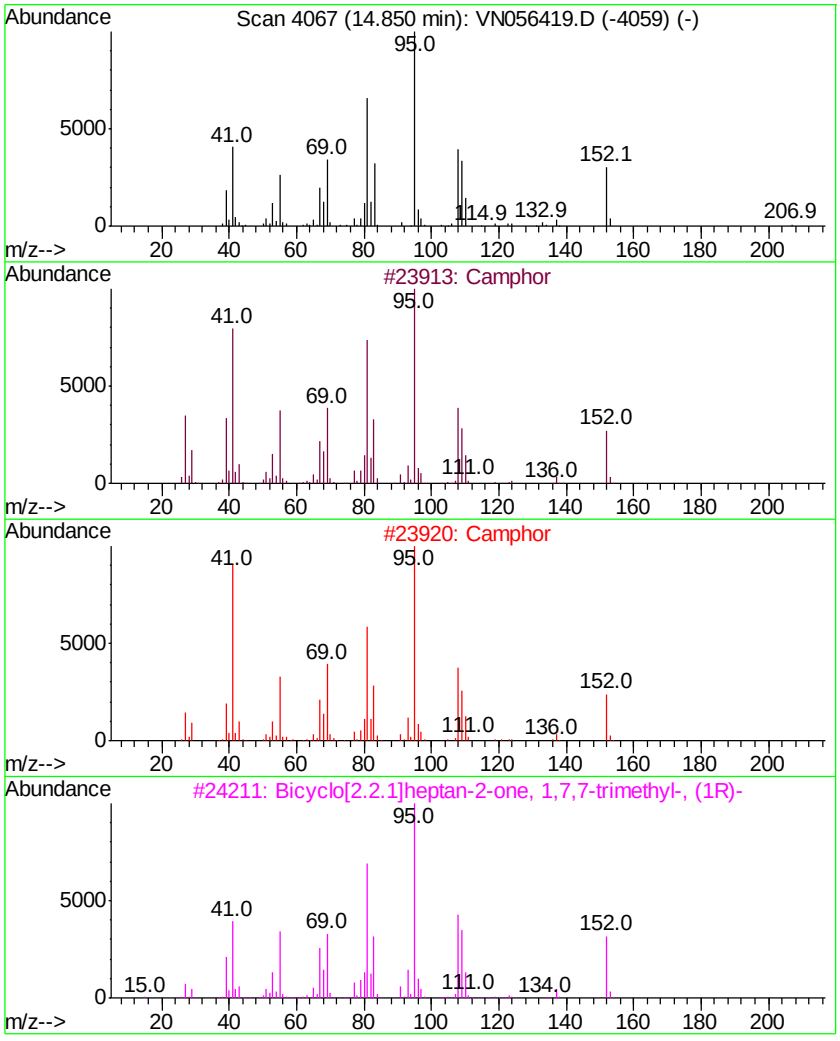
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

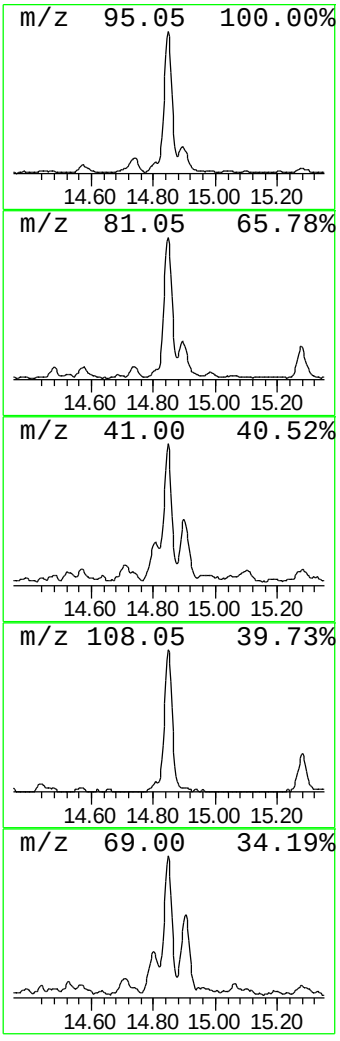
****

Peak Number 9 Camphor Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.85	12.27 ug/l	344568	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Camphor	152	C10H16O	000076-22-2	97
2	Camphor	152	C10H16O	000076-22-2	97
3	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-49-3	97
4	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-49-3	97
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	021368-68-3	96





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

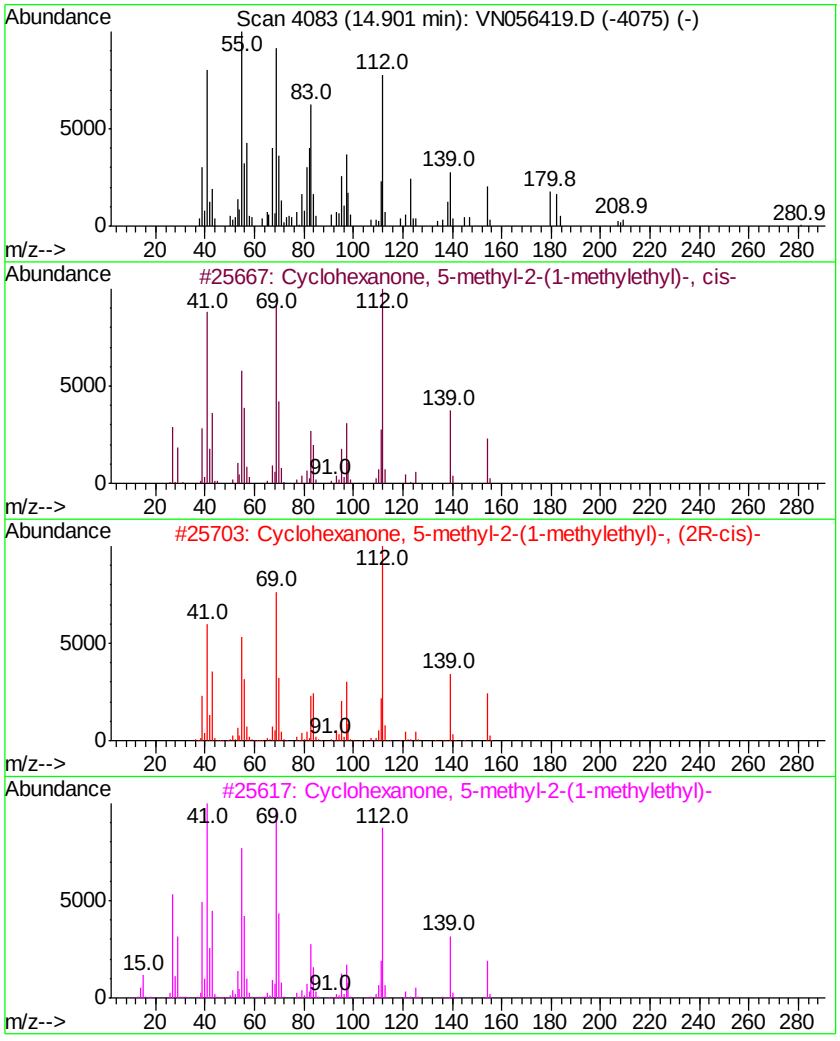
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

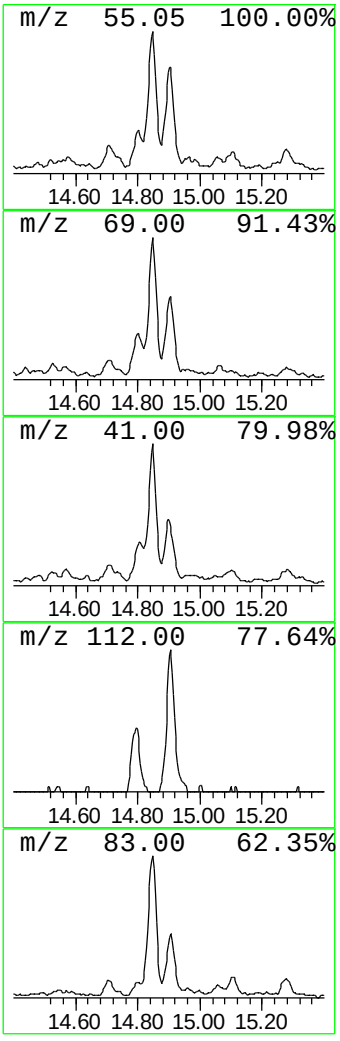
****

Peak Number 10 Cyclohexanone, 5-methyl-2-(... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.90	6.10 ug/l	171320	Chlorobenzene-d5	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 5-methyl-2-(1-met...	154	C10H18O	000491-07-6	92
2	Cyclohexanone, 5-methyl-2-(1-met...	154	C10H18O	001196-31-2	86
3	Cyclohexanone, 5-methyl-2-(1-met...	154	C10H18O	010458-14-7	58
4	Cyclohexanone, 5-methyl-2-(1-met...	154	C10H18O	000491-07-6	56
5	Cyclohexane, 2-butyl-1,1,3-trime...	182	C13H26	054676-39-0	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062119\
Data File : VN056419.D
Acq On : 21 Jun 2019 12:32
Operator : JC/SP
Sample : K3465-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : 390619766-VOA

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Amylene Hydrate	8.14	5.7	ug/l	140614	2	8.59	744714	30.0
3-Pentanone, 2,4-...	10.72	14.4	ug/l	403928	3	11.41	842537	30.0
1,3-Oxathiolane	10.85	3.1	ug/l	88171	3	11.41	842537	30.0
7-Oxabicyclo[2.2....	13.17	5.9	ug/l	165562	3	11.41	842537	30.0
3-Cyclohexene-1-a...	13.81	4.6	ug/l	130326	3	11.41	842537	30.0
Benzoic acid, 2-[...	13.88	8.6	ug/l	240742	3	11.41	842537	30.0
Bicyclo[2.2.1]hep...	14.22	32.2	ug/l	904122	3	11.41	842537	30.0
Camphene	14.81	5.7	ug/l	159279	3	11.41	842537	30.0
Camphor	14.85	12.3	ug/l	344568	3	11.41	842537	30.0
Cyclohexanone, 5-...	14.90	6.1	ug/l	171320	3	11.41	842537	30.0