LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_Y\METHODS\82Y103019S.M
Title : SW846 8260

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	9.864	1322	1333	1341	rVB2	721160	2564935	1.76%	0.176%
2	9.967	1341	1350	1363	rVB	1561770	5096972	3.49%	0.349%
3	10.187	1379	1386	1390	rBV	2734412	6268794	4.30%	0.429%
4	10.358	1401	1414	1426	rVB2	1293835	4722043	3.24%	0.323%
5	10.528	1426	1442	1452	rBV2	4278660	13239351	9.07%	0.906%
6	10.632	1452	1459	1462	rBV	2331989	5642863	3.87%	0.386%
7	10.723	1469	1474	1482	rVB2	2490407	5641494	3.87%	0.386%
8	10.815	1482	1489	1500	rBV	10767204	31852464	21.83%	2.180%
9	10.918	1500	1506	1513	rBV	6543488	19970733	13.69%	1.367%
10	11.101	1529	1536	1549	rBV	25042310	86834361	59.51%	5.944%
11	11.217	1549	1555	1560	rBV4	13295200	37115965	25.44%	2.541%
12	11.394	1579	1584	1595	rVB	10332686	34046607	23.33%	2.331%
13	11.638	1619	1624	1627	rBV	10975552	23400357	16.04%	1.602%
14	11.699	1628	1634	1637	rVV4	16931438	49743277	34.09%	3.405%
15	11.766	1638	1645	1658	rVB3	29296378	145905242	100.00%	9.987%
16	12.022	1681	1687	1696	rBV6	22608688	75694687	51.88%	5.181%
17	12.156	1704	1709	1714	rVB	16420148	34859800	23.89%	2.386%
18	12.223	1714	1720	1722	rBV3	18551184	40258830	27.59%	2.756%
19	12.504	1761	1766	1771	rVB5	16363308	38716071	26.54%	2.650%
20	12.583	1771	1779	1784	rBV5	23592178	74148752	50.82%	5.076%
21	12.668	1789	1793	1799	rVB4	44121306	101326910	69.45%	6.936%
22	12.747	1799	1806	1810	rBV5	25851154	70653041	48.42%	4.836%
23	12.821	1811	1818	1824	rVV6	36653282	126044425	86.39%	8.628%
24	12.875	1824	1827	1832	rVB3	22319478	38901163	26.66%	2.663%
25	12.961	1837	1841	1845	rVV3	16804211	27445360	18.81%	1.879%
26	13.010	1845	1849	1852	rVV3	10115465	20425327	14.00%	1.398%
27	13.052	1852	1856	1863	rVB3	29796958	58011348	39.76%	3.971%
28	13.131	1864	1869	1873	rBV2	26278456	48748734	33.41%	3.337%
29	13.259	1887	1890	1893	rVB	9248156	11816848	8.10%	0.809%
30	13.327	1893	1901	1905	rBV3	16777198	37038127	25.39%	2.535%
31	13.467	1920	1924	1931	rBV4	4200624	9450372	6.48%	0.647%
32	13.589	1938	1944	1955	rVB4	10387552	31218541	21.40%	2.137%
33	13.674	1955	1958	1960	rBV	4272872	6069065	4.16%	0.415%
34	13.753	1965	1971	1975	rVV2	22897668	42293125	28.99%	2.895%

LSC Area Percent Report

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Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_Y\METHODS\82Y103019S.M
Title : SW846 8260

35	13.796	1975	1978	1982	rVV2	4737928	6967733	4.78%	0.477%
36	13.851	1983	1987	1990	rVV4	4290473	8348186	5.72%	0.571%
37	13.887	1990	1993	1995	rVV	5801492	9063683	6.21%	0.620%
38	13.912	1995	1997	2002	rVV4	5986734	10593770	7.26%	0.725%
39	13.973	2002	2007	2011	rVB	12039646	19383506	13.28%	1.327%
40	14.076	2019	2024	2029	rVB4	7962510	14006557	9.60%	0.959%
41	14.137	2029	2034	2040	rVB6	2647743	6016084	4.12%	0.412%
42	14.259	2050	2054	2057	rBV4	4005542	6848319	4.69%	0.469%
43	14.332	2063	2066	2070	rVB	3947206	5327668	3.65%	0.365%
44	14.375	2070	2073	2077	rVV3	1347599	2045563	1.40%	0.140%
45	14.418	2077	2080	2087	rVB3	1850866	2724651	1.87%	0.187%
46	14.680	2116	2123	2128	rBV3	1352351	2793799	1.91%	0.191%
47	14.729	2128	2131	2138	rVB4	875721	1594702	1.09%	0.109%

Sum of corrected areas: 1460880205

LSC Report - Integrated Chromatogram

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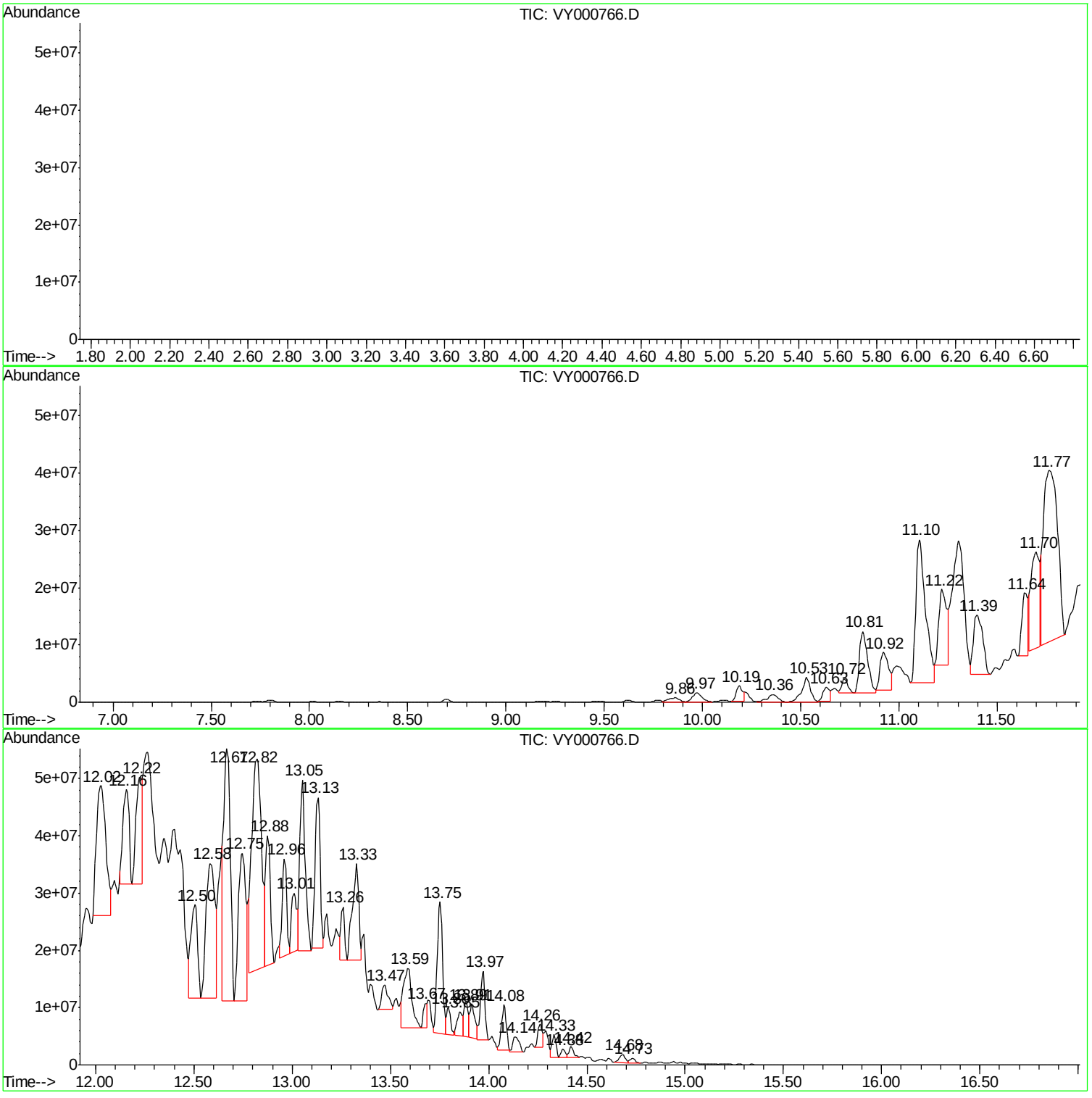
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

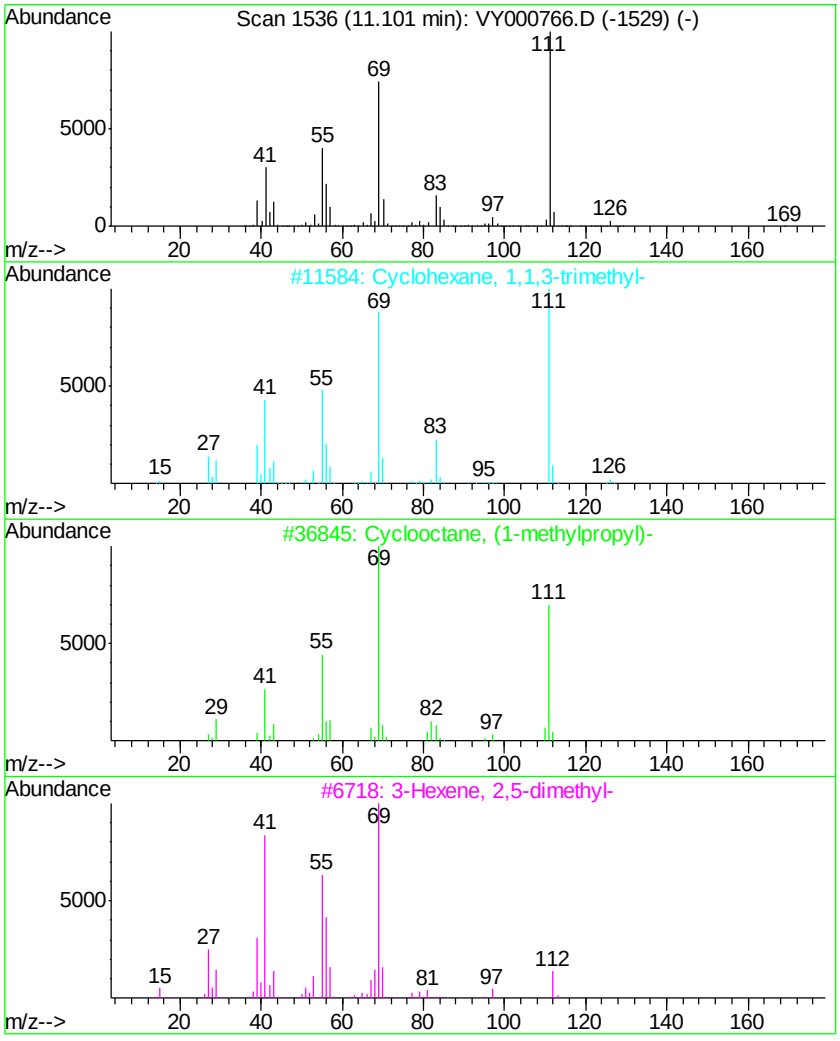
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

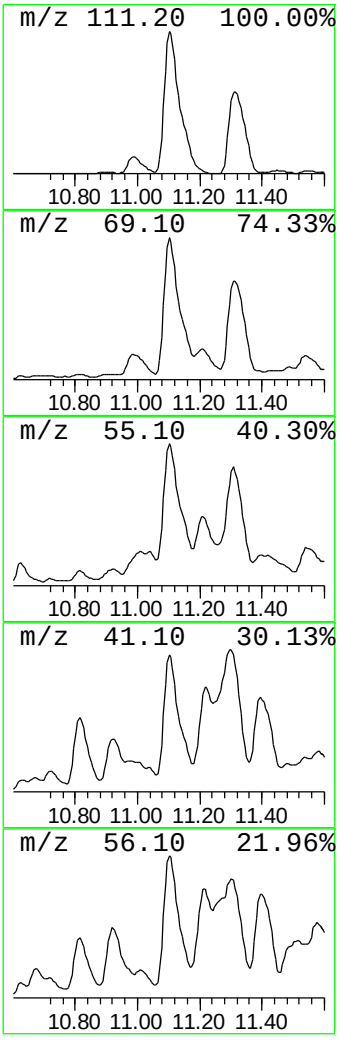
****

Peak Number 1 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	127.52 ug/l	86834400	Chlorobenzene-d5	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
2	Cyclooctane, (1-methylpropyl)-	168	C12H24	016538-89-9	72
3	3-Hexene, 2,5-dimethyl-	112	C8H16	015910-22-2	55
4	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	52
5	1-Hexene, 3,3-dimethyl-	112	C8H16	003404-77-1	49





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

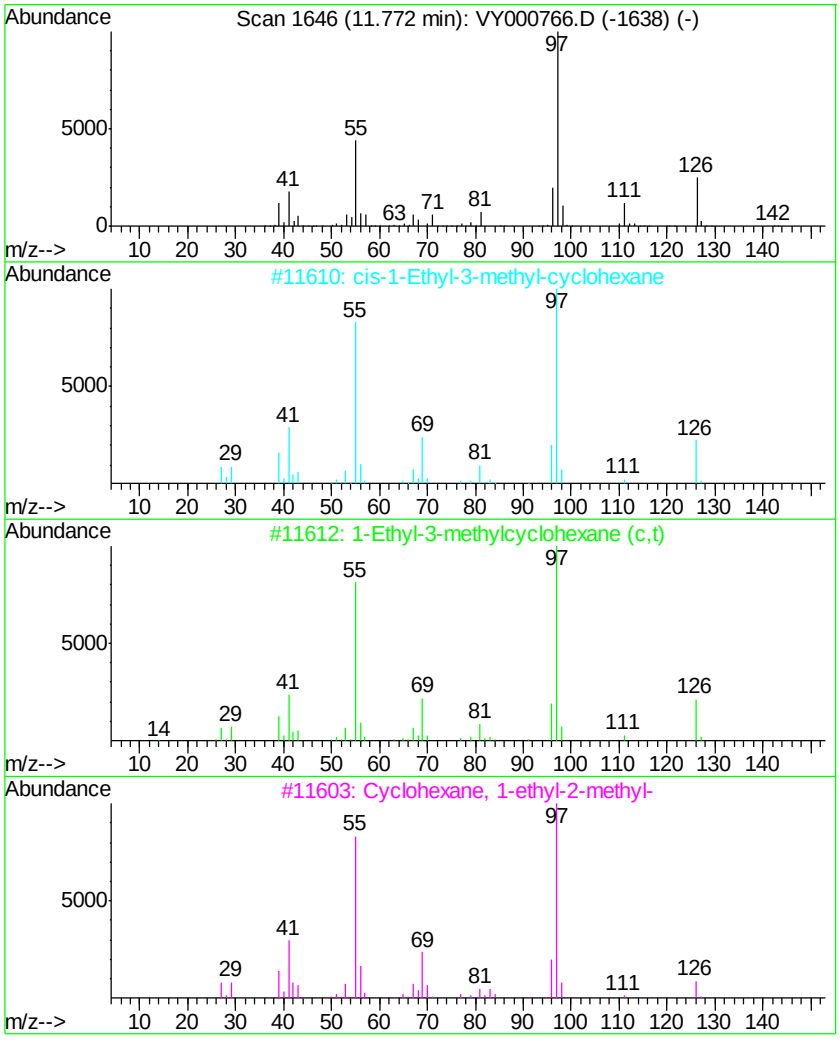
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

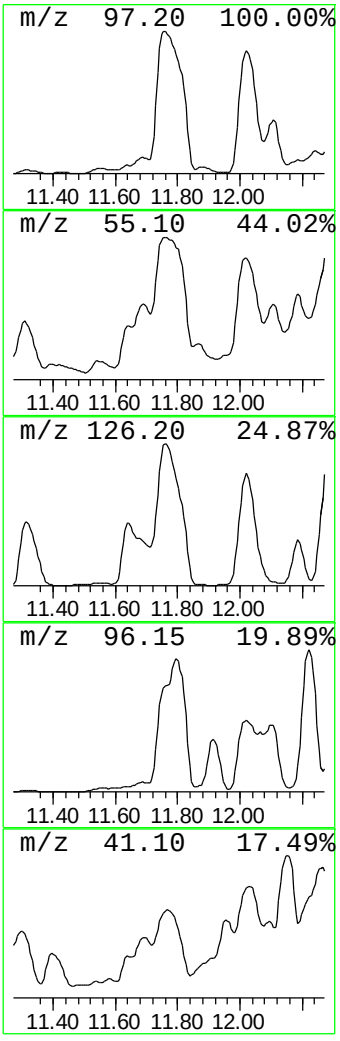
****

Peak Number 2 cis-1-Ethyl-3-methyl-cycloh... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	214.27 ug/l	145905000	Chlorobenzene-d5	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	87
2	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	86
3	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	78
4	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	72
5	Furan, 2,3-dihydro-4-(1-methylpr...	126	C8H14O	034379-54-9	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

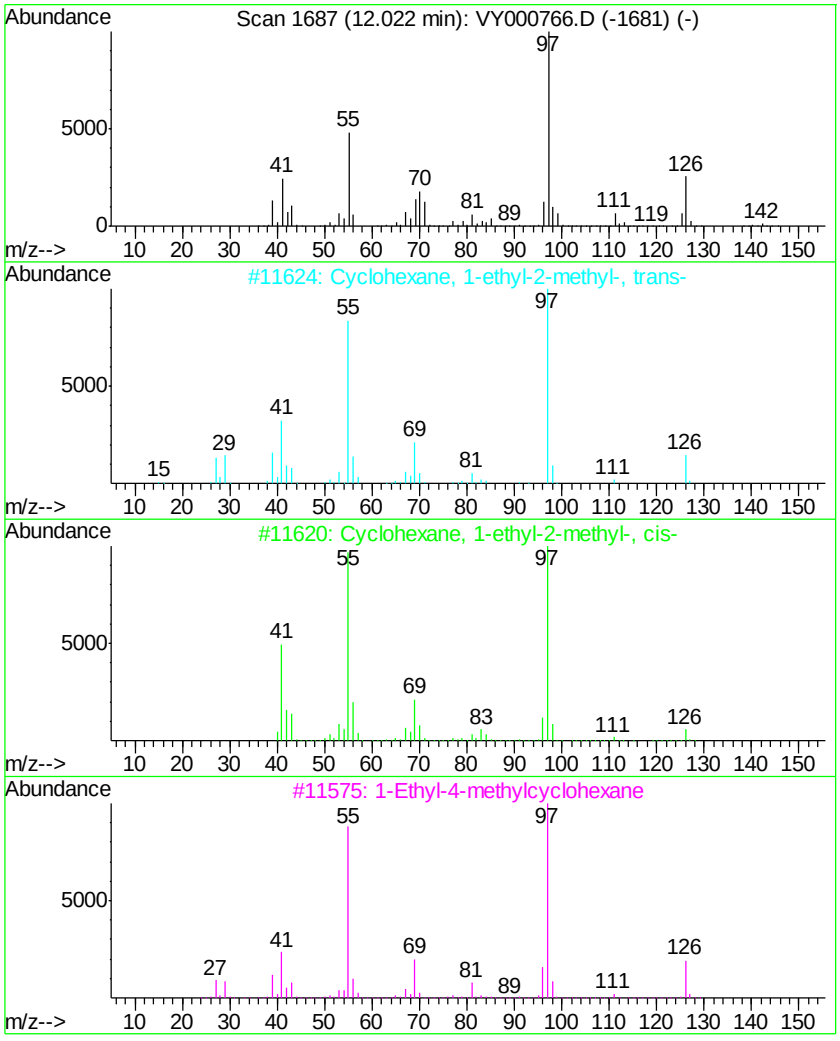
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

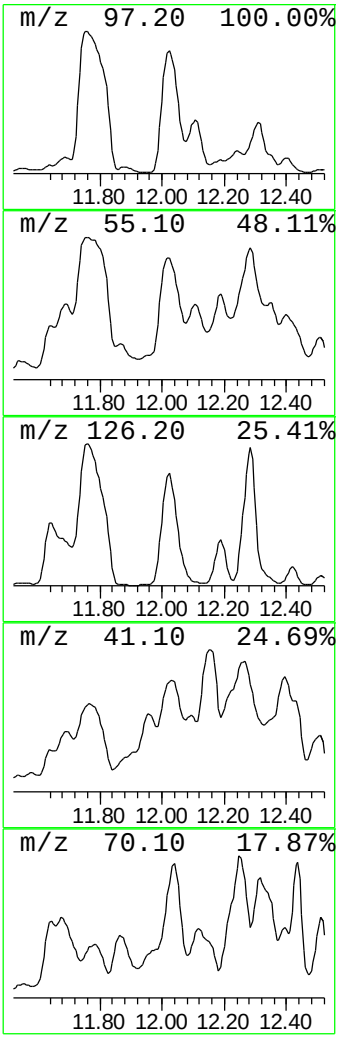
****

Peak Number 3 Cyclohexane, 1-ethyl-2-meth... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	111.16 ug/l	75694700	Chlorobenzene-d5	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	62
2	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-77-7	59
3	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	59
4	3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	59
5	Sulfurous acid, cyclohexylmethyl...	416	C24H48O3S	1000309-22-5	59





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

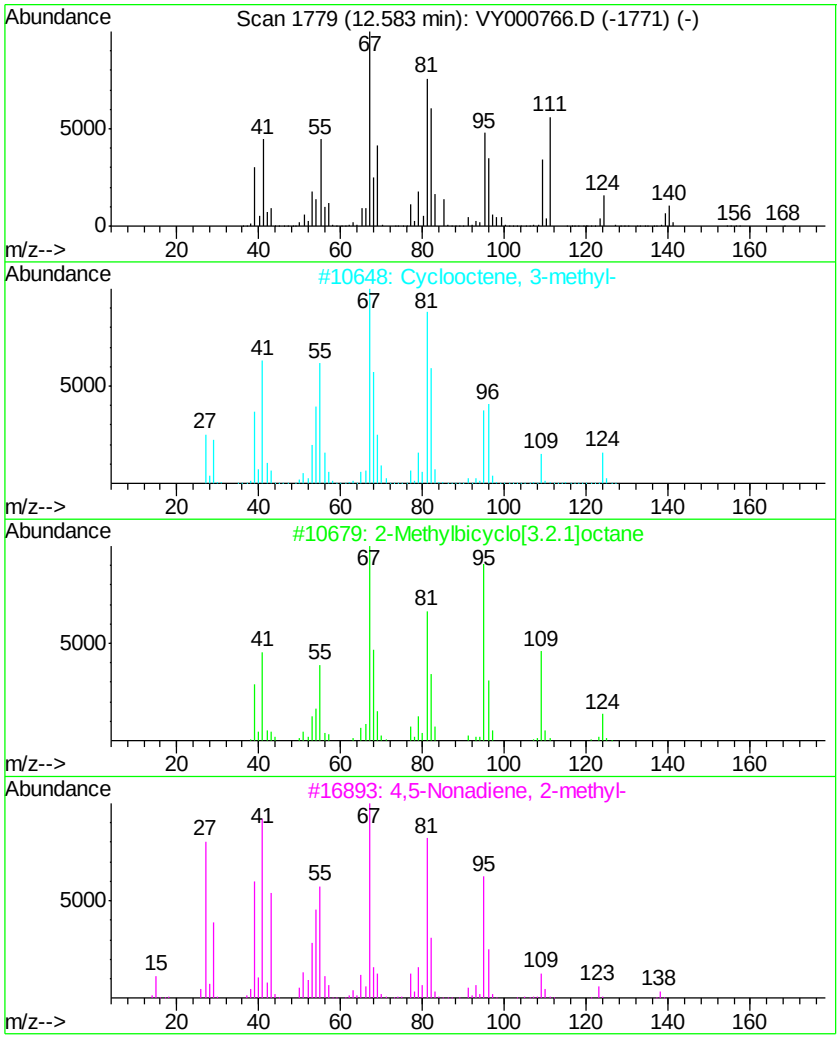
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

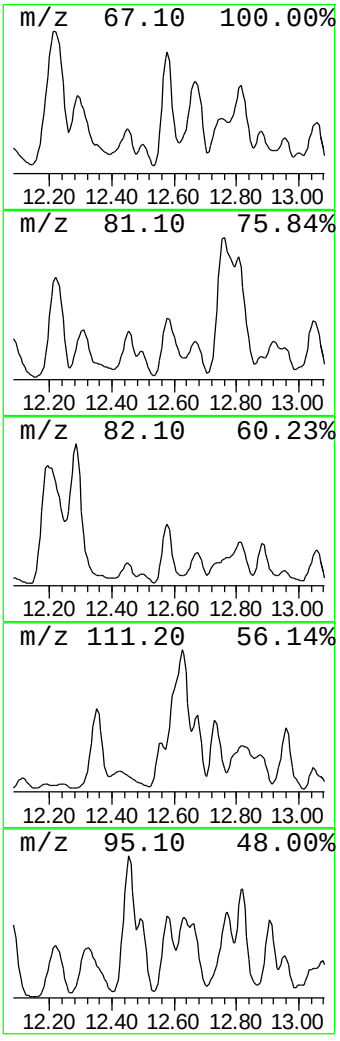
****

Peak Number 4 Cyclooctene, 3-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	392.31 ug/l	74148800	1,4-Dichlorobenzene-d4	13.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctene, 3-methyl-	124	C9H16	013152-05-1	90
2	2-Methylbicyclo[3.2.1]octane	124	C9H16	1000215-28-0	60
3	4,5-Nonadiene, 2-methyl-	138	C10H18	055956-32-6	58
4	Cyclohexane, 1,3-dimethyl-2-meth...	124	C9H16	019781-47-6	46
5	Bicyclo[4.1.0]heptane	96	C7H12	000286-08-8	46





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Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

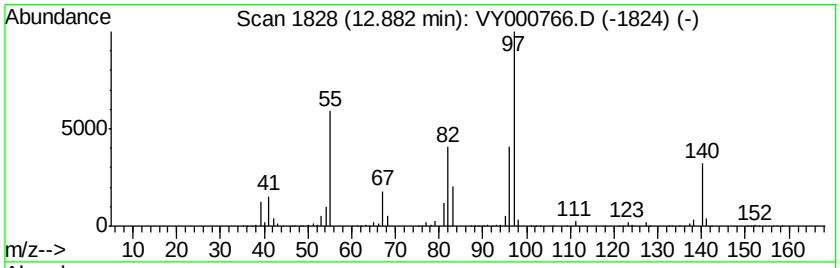
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

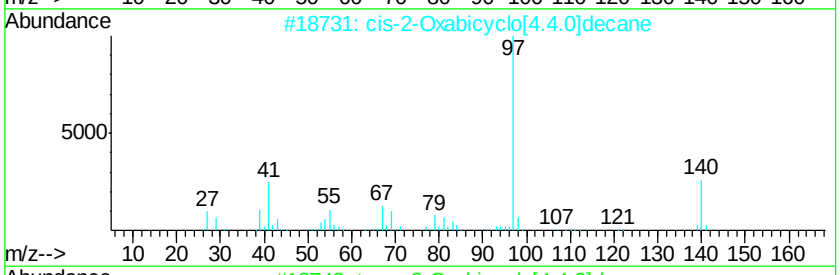
****

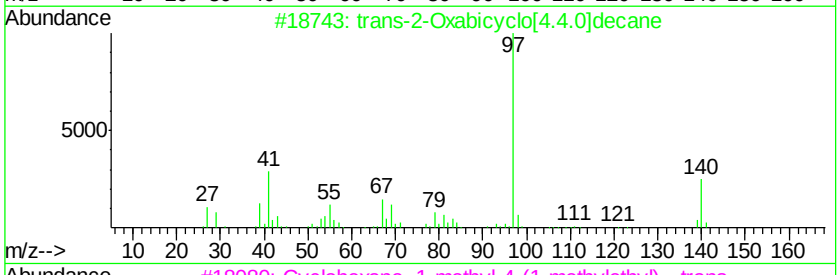
Peak Number 5 cis-2-Oxabicyclo[4.4.0]decane Concentration Rank 4

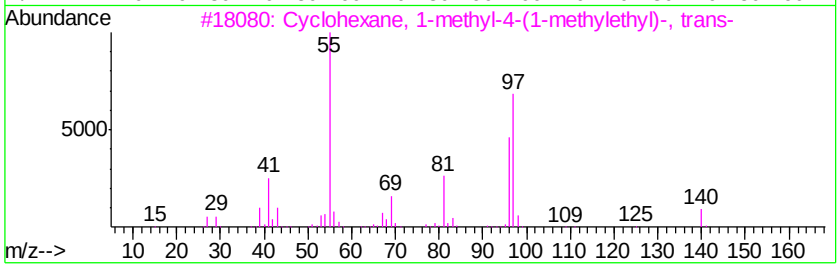
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.88	205.82 ug/l	38901200	1,4-Dichlorobenzene-d4	13.41

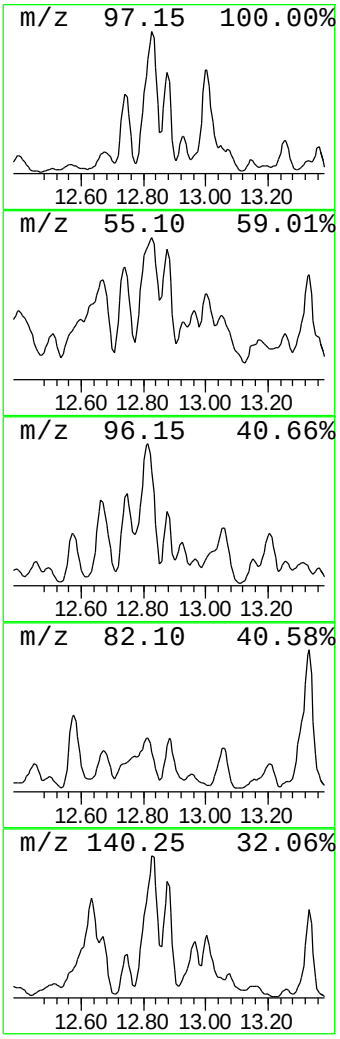
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-2-Oxabicyclo[4.4.0]decane	140	C9H16O	060416-19-5	47
2	trans-2-Oxabicyclo[4.4.0]decane	140	C9H16O	059958-46-2	43
3	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	001678-82-6	43
4	Oxalic acid, butyl cyclohexylmet...	242	C13H22O4	1000309-68-2	42
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	40











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Quant Title : SW846 8260

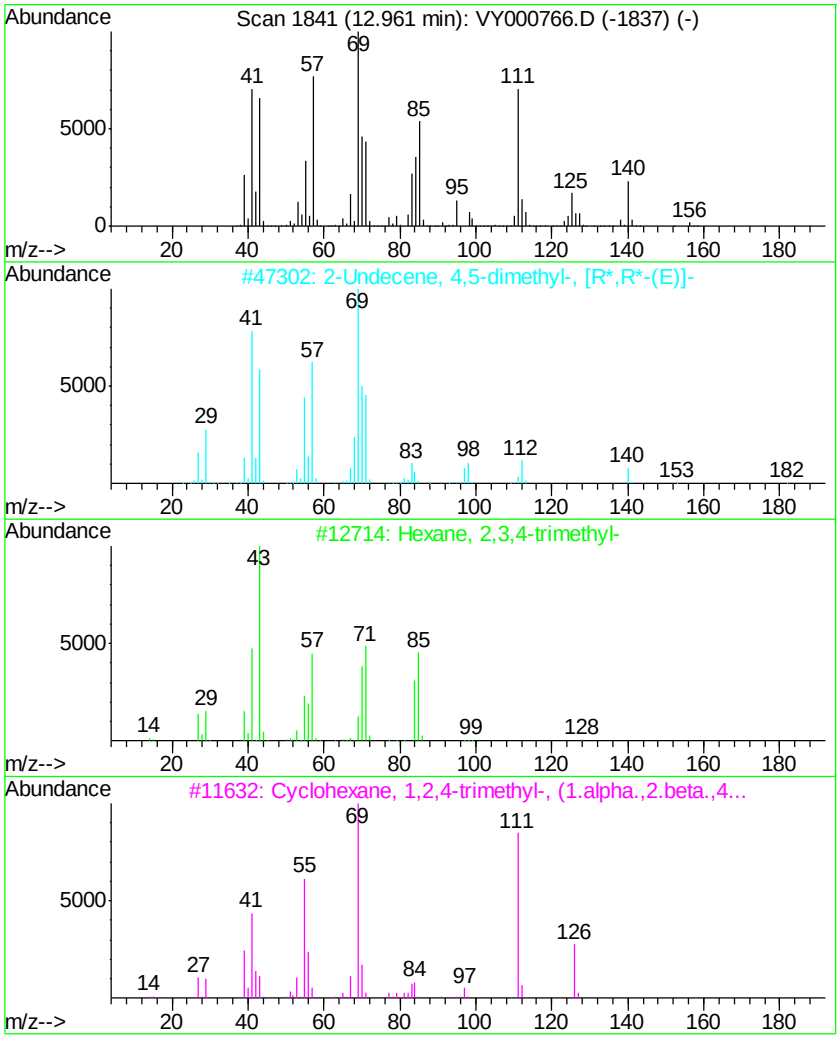
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

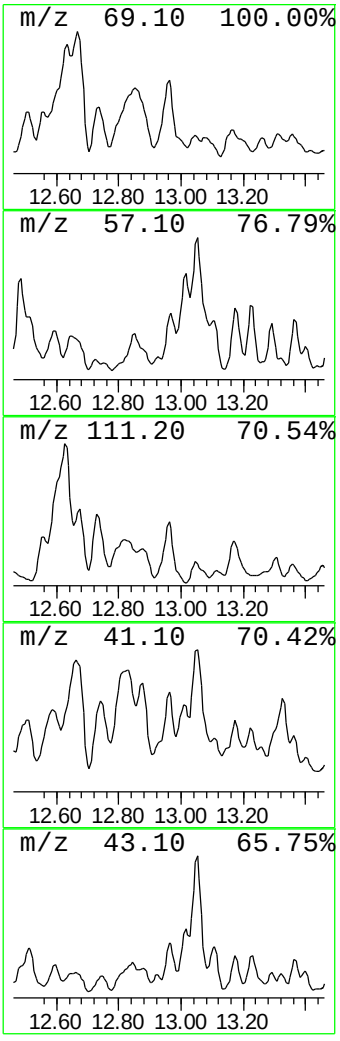
****

Peak Number 6 2-Undecene, 4,5-dimethyl-, ... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	145.21 ug/l	27445400	1,4-Dichlorobenzene-d4	13.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Undecene, 4,5-dimethyl-, [R*,R...	182	C13H26	055170-92-8	43
2	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	38
3	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	35
4	Octane, 4-methyl-	128	C9H20	002216-34-4	35
5	Butanedinitrile, 2,3-diamino-2,3...	138	C6H10N4	082929-43-9	35





Library Search Compound Report

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ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

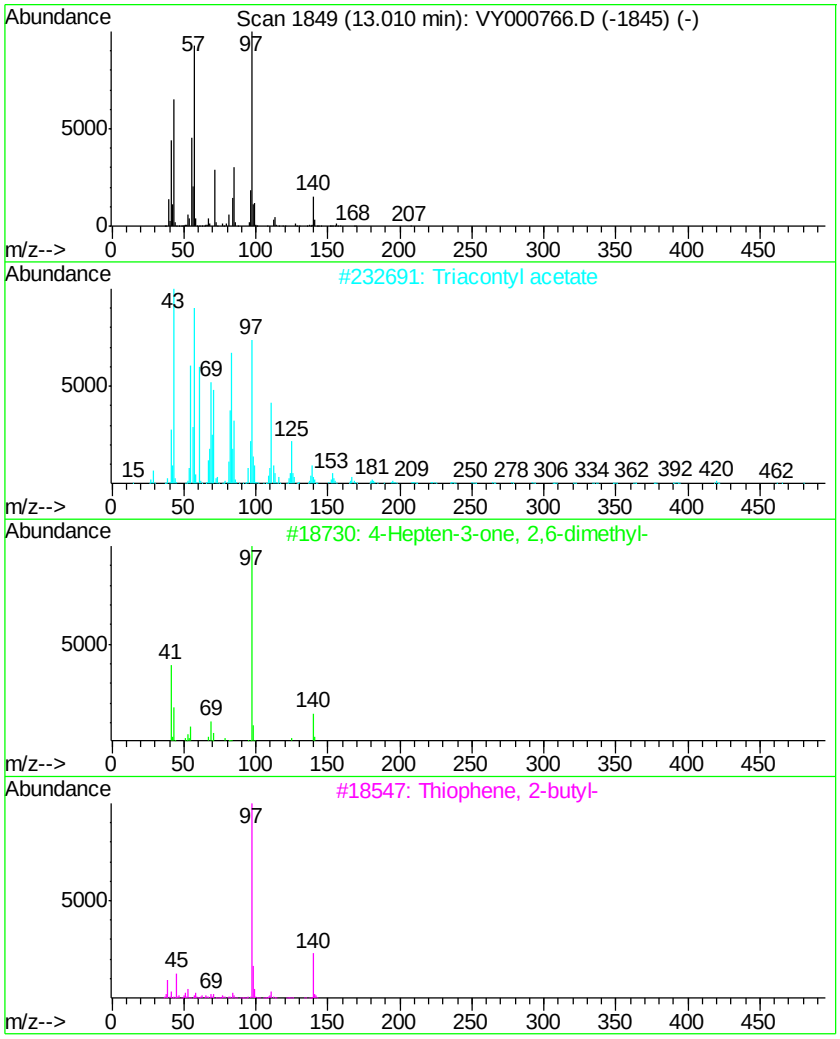
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

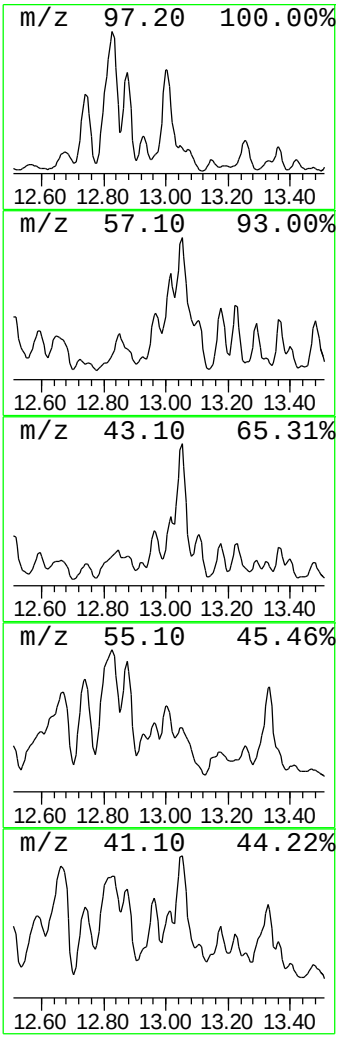
****

Peak Number 7 Triacontyl acetate Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.01	108.07 ug/l	20425300	1,4-Dichlorobenzene-d4	13.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triacontyl acetate	480	C32H64O2	041755-58-2	53
2	4-Hepten-3-one, 2,6-dimethyl-	140	C9H16O	056259-14-4	43
3	Thiophene, 2-butyl-	140	C8H12S	001455-20-5	38
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	35
5	Undecane, 3-methyl-	170	C12H26	001002-43-3	35





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

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

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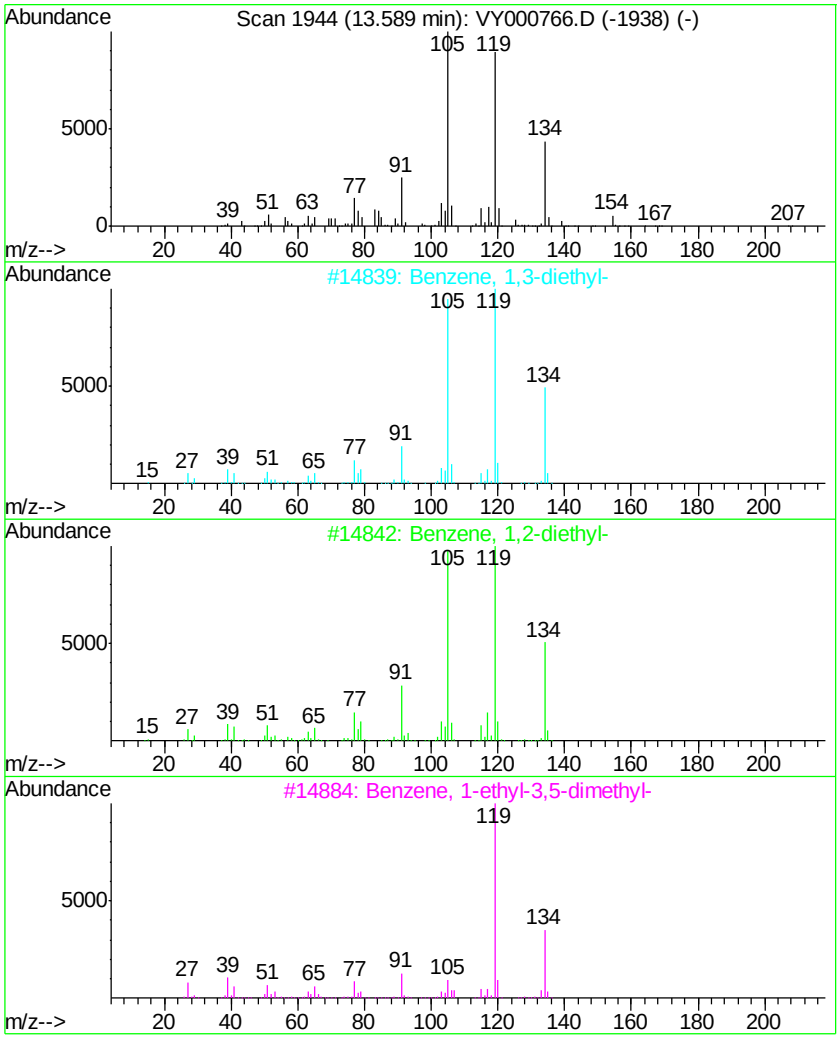
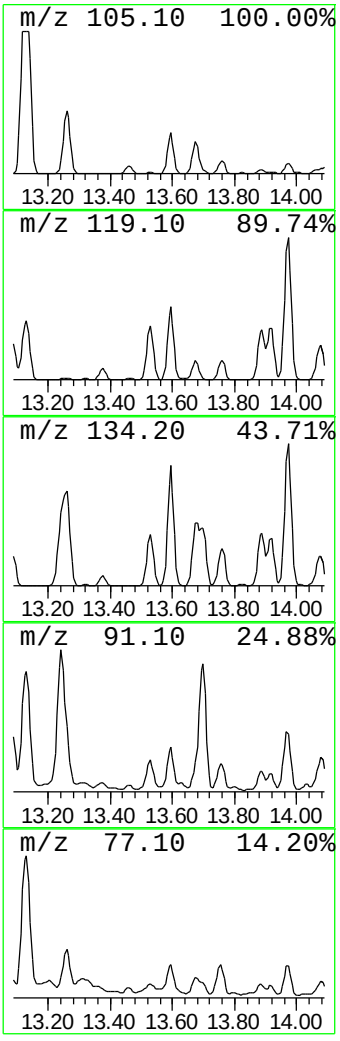
Peak Number 8 Benzene, 1,3-diethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.59	165.17 ug/l	31218500	1,4-Dichlorobenzene-d4	13.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	95
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
3	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	90
4	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	90
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	83





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

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

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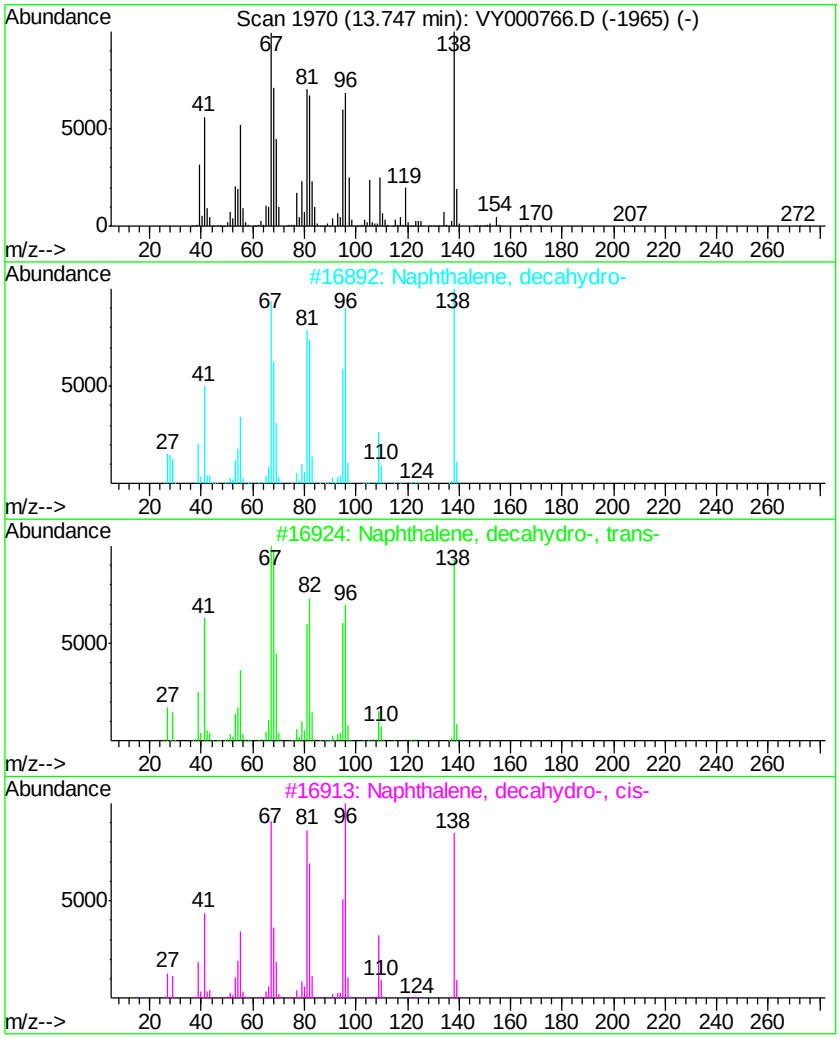
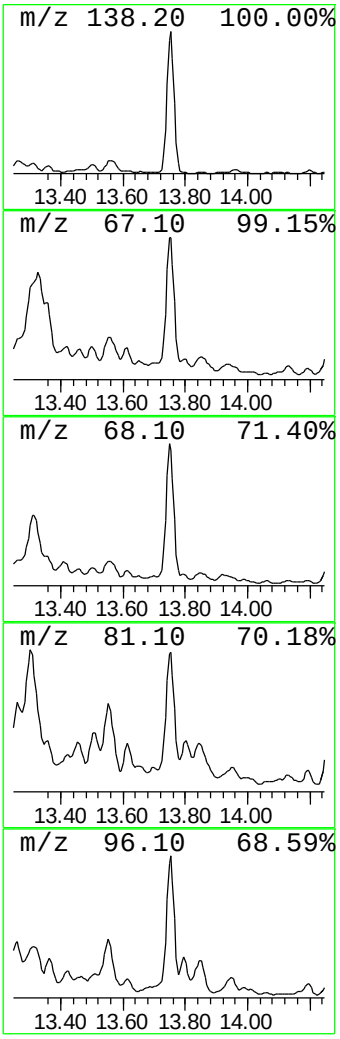
Peak Number 9 Naphthalene, decahydro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	223.76 ug/l	42293100	1,4-Dichlorobenzene-d4	13.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	97
2	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	93
3	Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	81
4	1,1'-Bicyclopentyl	138	C10H18	001636-39-1	72
5	Spiro[4.5]decane	138	C10H18	000176-63-6	68





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

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

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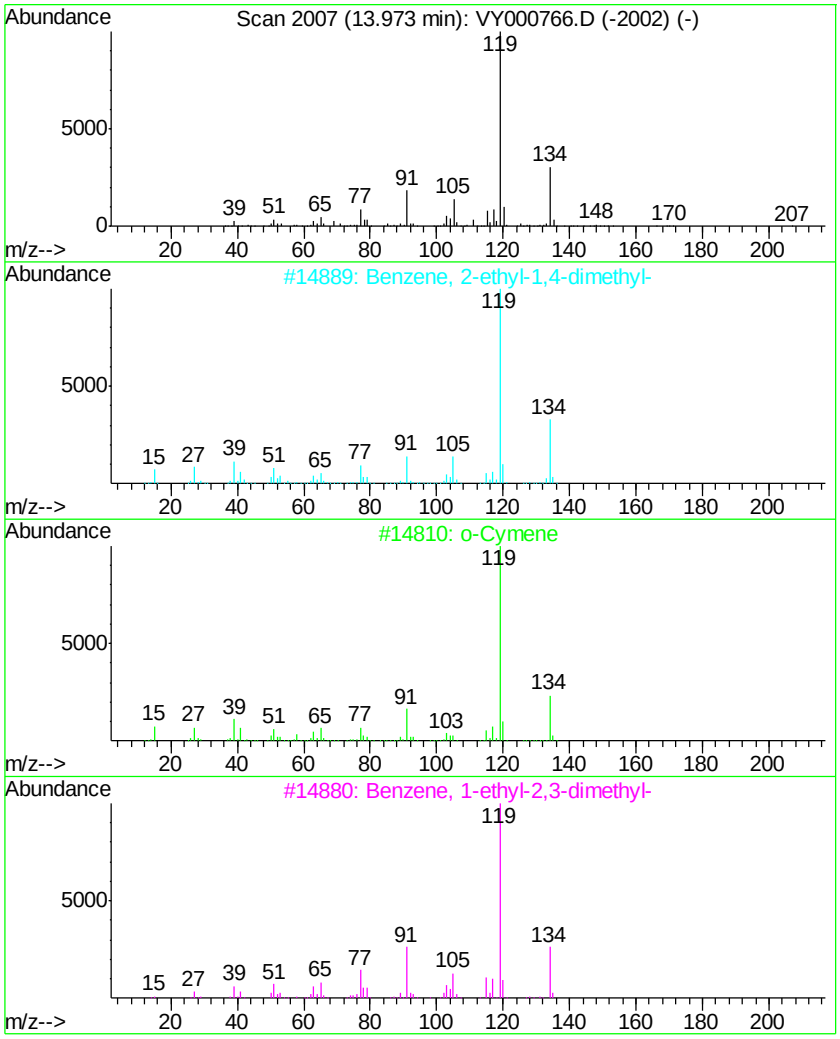
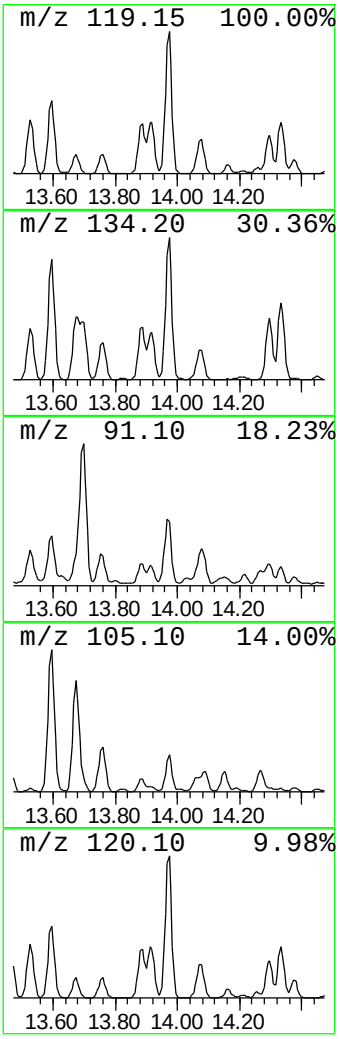
Peak Number 10 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	102.55 ug/l	19383500	1,4-Dichlorobenzene-d4	13.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	97
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\vy112119\
Data File : VY000766.D
Acq On : 21 Nov 2019 14:36
Operator : SY/MD
Sample : K5957-01
Misc : 5.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_Y
ClientSampleId : MW-1-(12-14)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Cyclohexane, 1,1,...	11.10	127.5	ug/l	86834400	3	11.49	34046600	50.0
cis-1-Ethyl-3-met...	11.77	214.3	ug/l	145905000	3	11.49	34046600	50.0
Cyclohexane, 1-et...	12.02	111.2	ug/l	75694700	3	11.49	34046600	50.0
Cyclooctene, 3-me...	12.58	392.3	ug/l	74148800	4	13.41	9450370	50.0
cis-2-Oxabicyclo[...	12.88	205.8	ug/l	38901200	4	13.41	9450370	50.0
2-Undecene, 4,5-d...	12.96	145.2	ug/l	27445400	4	13.41	9450370	50.0
Triacontyl acetate	13.01	108.1	ug/l	20425300	4	13.41	9450370	50.0
Benzene, 1,3-diet...	13.59	165.2	ug/l	31218500	4	13.41	9450370	50.0
Naphthalene, deca...	13.75	223.8	ug/l	42293100	4	13.41	9450370	50.0
Benzene, 2-ethyl-...	13.97	102.6	ug/l	19383500	4	13.41	9450370	50.0