LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

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:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.979	248	253	255	rVB	350372	421882	1.96%	0.123%
2	5.059	255	260	263	rBV2	673805	1283786	5.97%	0.374%
3	5.116	263	265	268	rVV2	646499	1238315	5.76%	0.361%
4	5.173	268	270	274	rVV3	107018	256057	1.19%	0.075%
5	5.333	282	284	286	rVV	1348509	1548150	7.20%	0.451%
6	5.379	286	288	290	rVV3	329228	526076	2.45%	0.153%
7	5.424	290	292	294	rVB	1926625	1910142	8.89%	0.556%
8	5.527	296	301	304	rVV	4227817	6127101	28.51%	1.784%
9	5.596	304	307	310	rVV2	644315	1134647	5.28%	0.330%
10	5.664	310	313	314	rVV	786025	787788	3.67%	0.229%
11	5.699	314	316	318	rVV2	1152133	1583102	7.37%	0.461%
12	5.744	318	320	322	rVV	2292831	2243099	10.44%	0.653%
13	5.779	322	323	328	rVB2	1175078	2648922	12.32%	0.771%
14	5.859	328	330	332	rBV	438141	507242	2.36%	0.148%
15	5.950	334	338	340	rBV2	2731476	4474429	20.82%	1.303%
16	6.019	340	344	347	rVV3	2857786	8143667	37.89%	2.371%
17	6.099	347	351	353	rVV	4479026	7976602	37.11%	2.323%
18	6.156	353	356	357	rVV	2985965	5605879	26.08%	1.632%
19	6.202	357	360	363	rVV2	5646822	12944422	60.22%	3.769%
20	6.259	363	365	366	rVV	3629723	5652180	26.30%	1.646%
21	6.282	366	367	369	rVV2	2367288	3859324	17.95%	1.124%
22	6.384	373	376	378	rVV2	4495206	9224265	42.91%	2.686%
23	6.464	378	383	385	rVV4	5497877	16538940	76.94%	4.816%
24	6.499	385	386	388	rVV2	4066080	5559303	25.86%	1.619%
25	6.544	388	390	394	rVV2	4962922	12005222	55.85%	3.496%
26	6.624	396	397	400	rVV3	4020579	6945419	32.31%	2.022%
27	6.693	400	403	405	rVV3	4711807	11324370	52.68%	3.298%
28	6.773	408	410	412	rVV2	5746235	10810403	50.29%	3.148%
29	6.887	414	420	422	rVV5	3828465	15043864	69.99%	4.381%
30	6.933	422	424	426	rVV2	4226796	10616234	49.39%	3.091%
31	6.967	426	427	429	rVV	5394919	9046022	42.08%	2.634%
32	7.002	429	430	433	rVV3	4827594	9864104	45.89%	2.872%
33	7.093	433	438	442	rVV5	5451826	21494794	100.00%	6.259%
34	7.185	444	446	447	rVV2	3972456	6607264	30.74%	1.924%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

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:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	7.219	447	449	451	rVV2	5471309	10266104	47.76%	2.989%
36	7.265	451	453	454	rVV2	5521200	8014156	37.28%	2.334%
37	7.299	454	456	457	rVV	2819346	4660841	21.68%	1.357%
38	7.333	457	459	461	rVV2	4153750	7812131	36.34%	2.275%
39	7.367	461	462	464	rVV2	2228362	4197545	19.53%	1.222%
40	7.402	464	465	466	rVV	2874736	3296596	15.34%	0.960%
41	7.425	466	467	469	rVV	3137159	4876263	22.69%	1.420%
42	7.470	469	471	474	rVV2	4556105	10706049	49.81%	3.118%
43	7.516	474	475	479	rVV4	3049576	6485267	30.17%	1.888%
44	7.585	479	481	483	rVV3	4221979	7360117	34.24%	2.143%
45	7.642	483	486	488	rVV4	3113924	8294581	38.59%	2.415%
46	7.687	488	490	492	rVV2	2466503	5957729	27.72%	1.735%
47	7.722	492	493	496	rVV3	3087992	5957294	27.72%	1.735%
48	7.836	499	503	504	rVV2	2286161	5290086	24.61%	1.540%
49	7.870	504	506	507	rVV	2276834	3596383	16.73%	1.047%
50	7.905	507	509	510	rVV	1645639	2500307	11.63%	0.728%
51	7.950	510	513	514	rVV2	1634324	3255159	15.14%	0.948%
52	7.973	514	515	517	rVV2	1133924	1746218	8.12%	0.508%
53	8.030	517	520	523	rVV3	1200475	3116292	14.50%	0.907%
54	8.076	523	524	526	rVV	721376	929244	4.32%	0.271%
55	8.156	528	531	533	rVV3	719805	1582013	7.36%	0.461%
56	8.202	533	535	536	rVV	1418991	1794861	8.35%	0.523%
57	8.270	539	541	542	rVV2	521323	847454	3.94%	0.247%
58	8.293	542	543	548	rVV3	300321	732055	3.41%	0.213%
59	8.385	548	551	553	rVV2	171109	407260	1.89%	0.119%
60	8.499	559	561	565	rVV2	183647	331268	1.54%	0.096%
61	9.276	626	629	632	rVB	3687367	3612773	16.81%	1.052%
62	9.665	661	663	669	rVB	920646	855373	3.98%	0.249%
63	9.950	685	688	691	rVB	1166951	1076932	5.01%	0.314%
64	10.739	754	757	759	rVV	2258478	2365465	11.00%	0.689%
65	11.425	815	817	820	rVB	775205	996149	4.63%	0.290%
66	13.014	954	956	959	rBV	3090263	3095725	14.40%	0.901%
67	14.054	1045	1047	1050	rBV	827436	799709	3.72%	0.233%
68	15.494	1170	1173	1176	rBV	548355	642747	2.99%	0.187%

Sum of corrected areas: 343411162

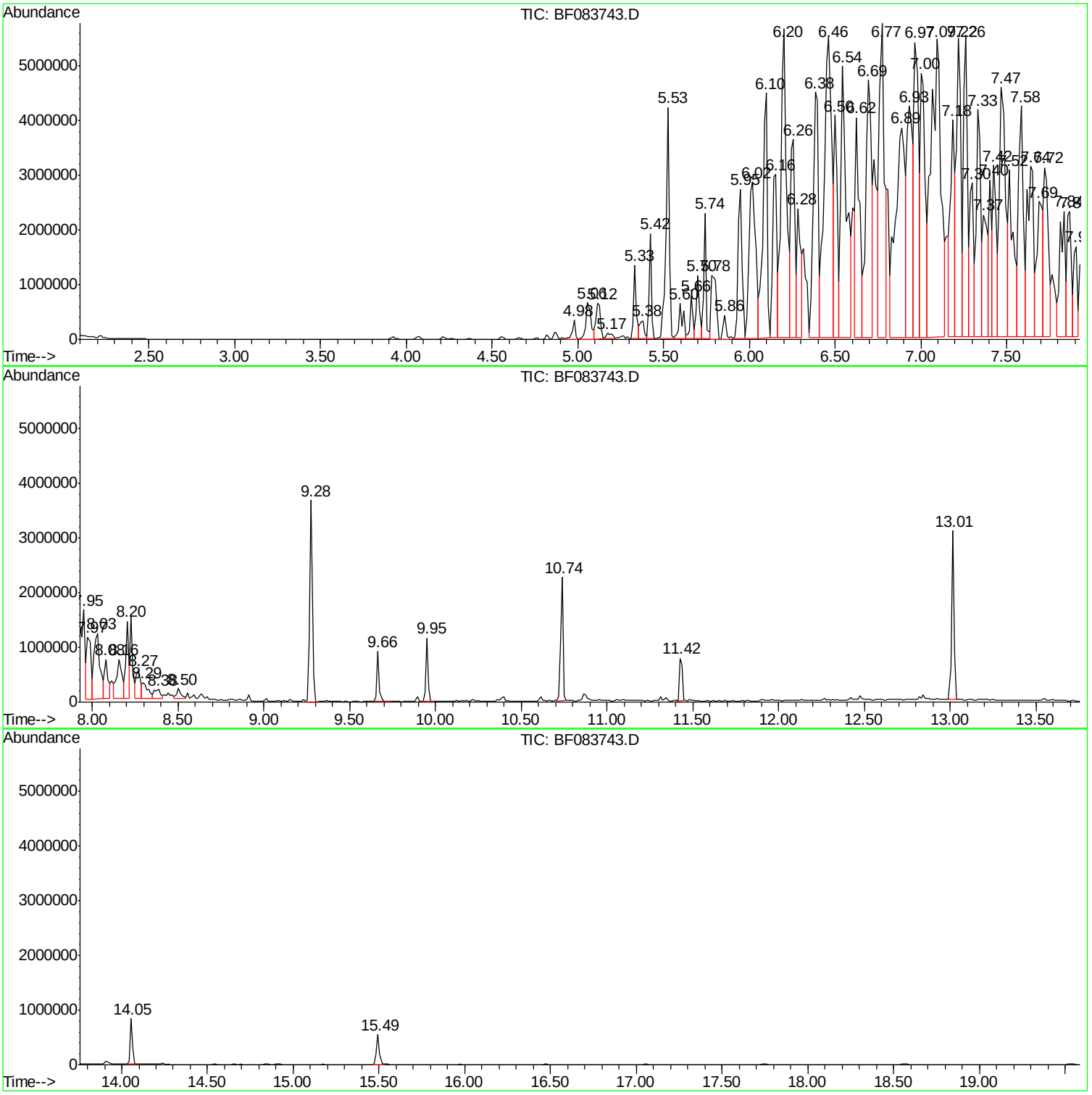
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

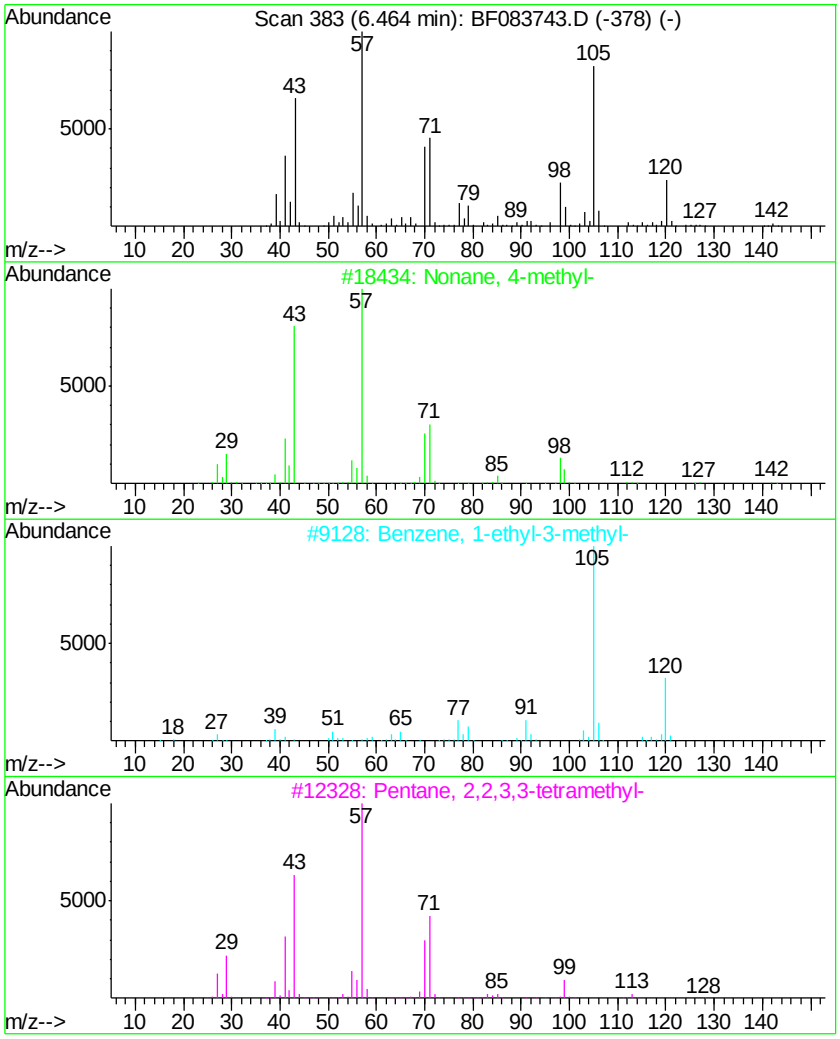
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

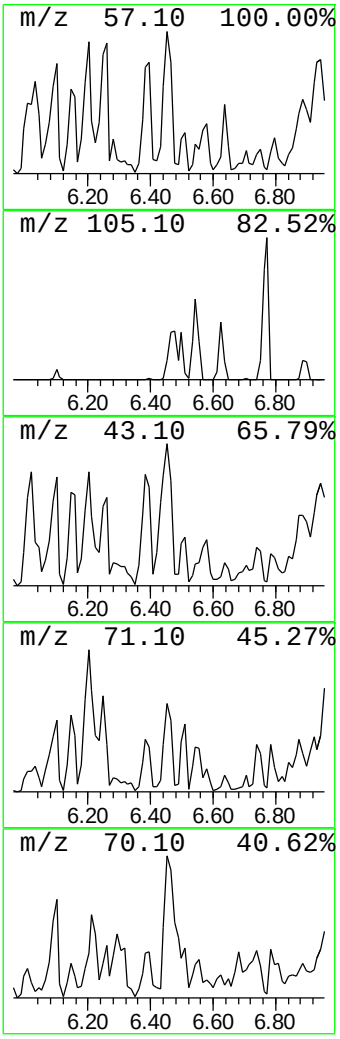
****

Peak Number 1 Nonane, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.46	31.16 ng	16538900	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 4-methyl-	142	C10H22	017301-94-9	60
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	44
3	Pentane, 2,2,3,3-tetramethyl-	128	C9H20	007154-79-2	38
4	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	38
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	35





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

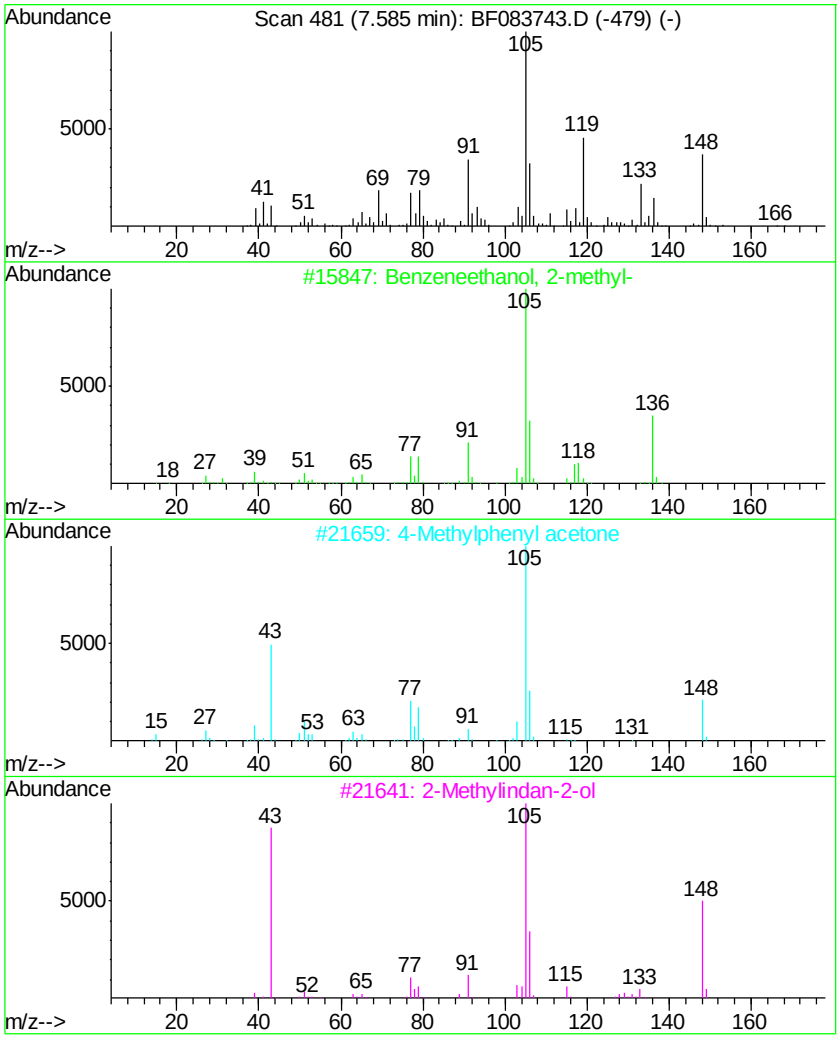
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

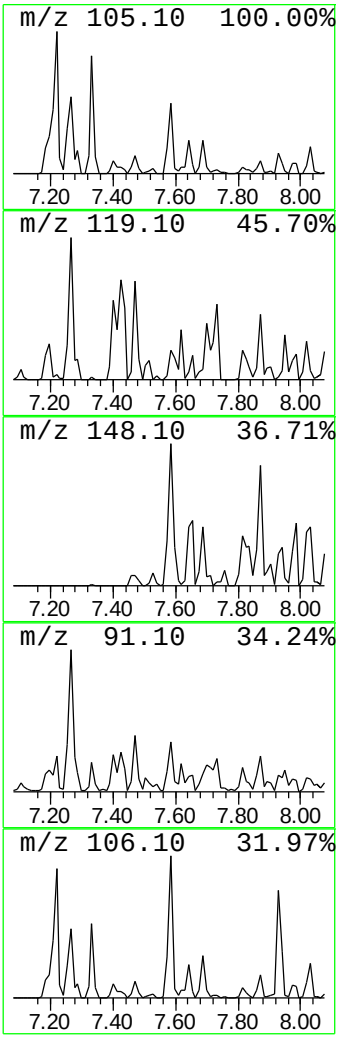
****

Peak Number 3 unknown7.58 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.58	82.01 ng	7360120	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanol, 2-methyl-	136	C9H12O	019819-98-8	46
2	4-Methylphenyl acetone	148	C10H12O	002096-86-8	46
3	2-Methylindan-2-ol	148	C10H12O	033223-84-6	43
4	Benzene, 1-methyl-4-(2-methylpro...	148	C11H16	005161-04-6	43
5	Benzeneethanol, .beta.-methyl-	136	C9H12O	001123-85-9	42





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

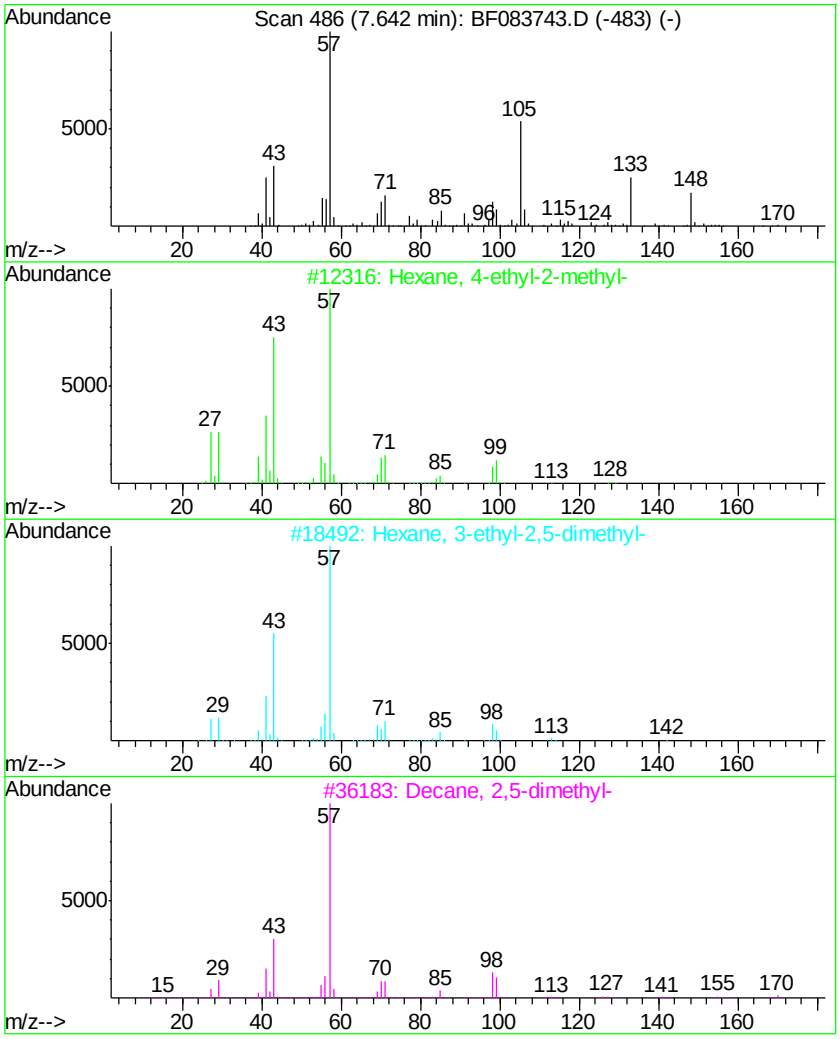
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

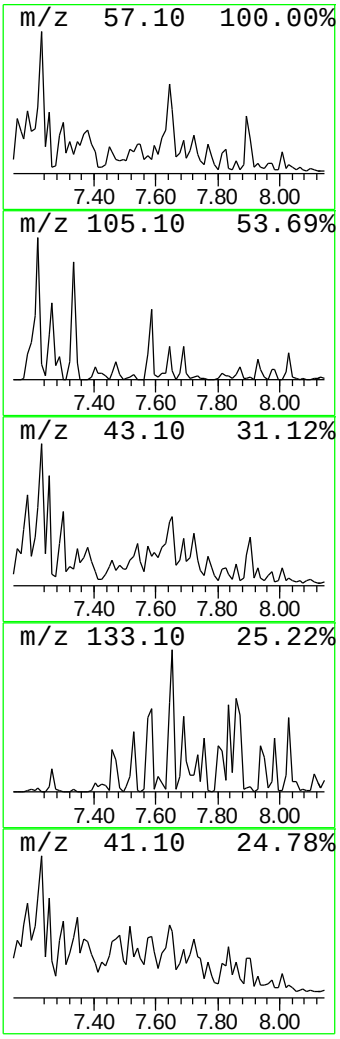
****

Peak Number 4 unknown7.64 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.64	92.43 ng	8294580	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 4-ethyl-2-methyl-	128	C9H20	003074-75-7	46
2	Hexane, 3-ethyl-2,5-dimethyl-	142	C10H22	052897-04-8	45
3	Decane, 2,5-dimethyl-	170	C12H26	017312-50-4	43
4	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	43
5	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	41





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

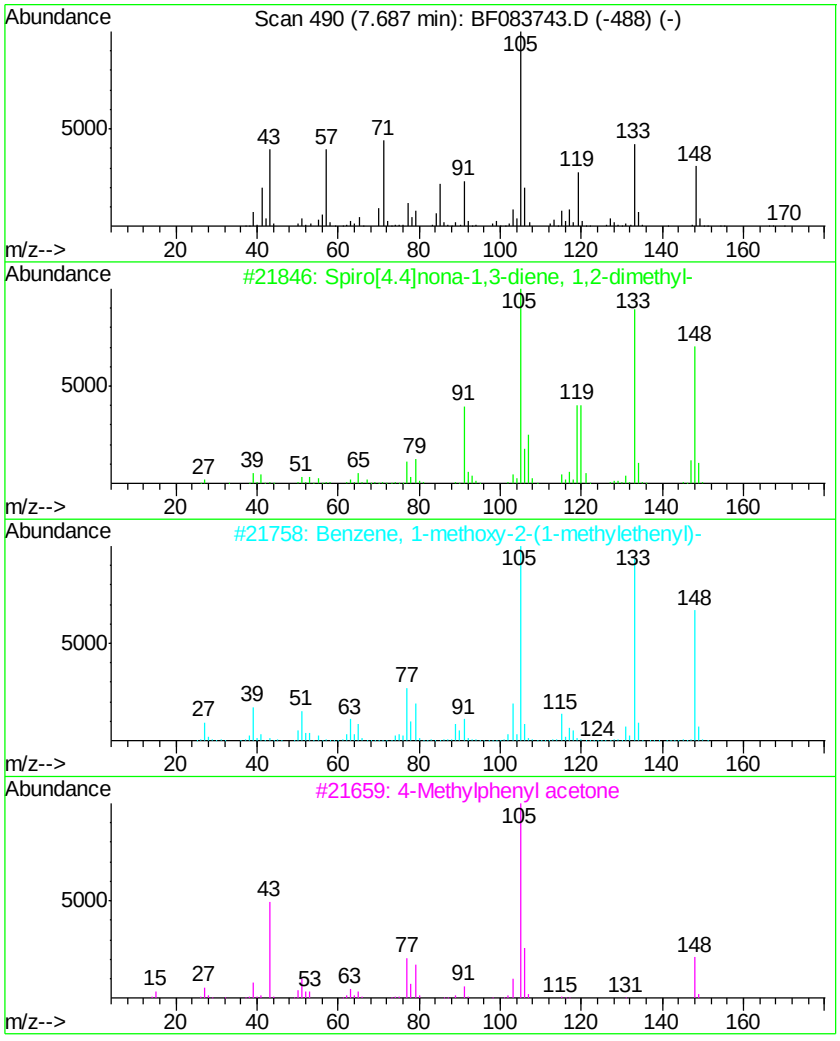
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

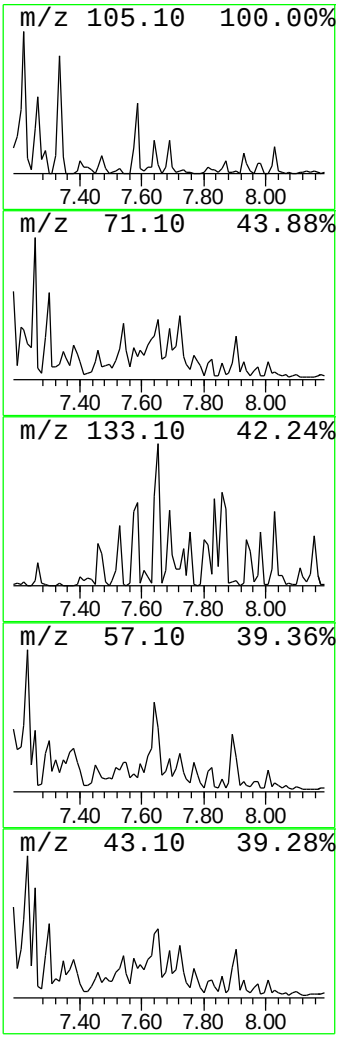
****

Peak Number 5 Spiro[4.4]nona-1,3-diene, 1... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.69	66.39 ng	5957730	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Spiro[4.4]nona-1,3-diene, 1,2-di...	148	C11H16	1000163-57-6	50
2	Benzene, 1-methoxy-2-(1-methylet...	148	C10H12O	010278-02-1	38
3	4-Methylphenyl acetone	148	C10H12O	002096-86-8	20
4	2-Methylindan-2-ol	148	C10H12O	033223-84-6	18
5	Benzenepropanal, .beta.-methyl-	148	C10H12O	016251-77-7	16





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

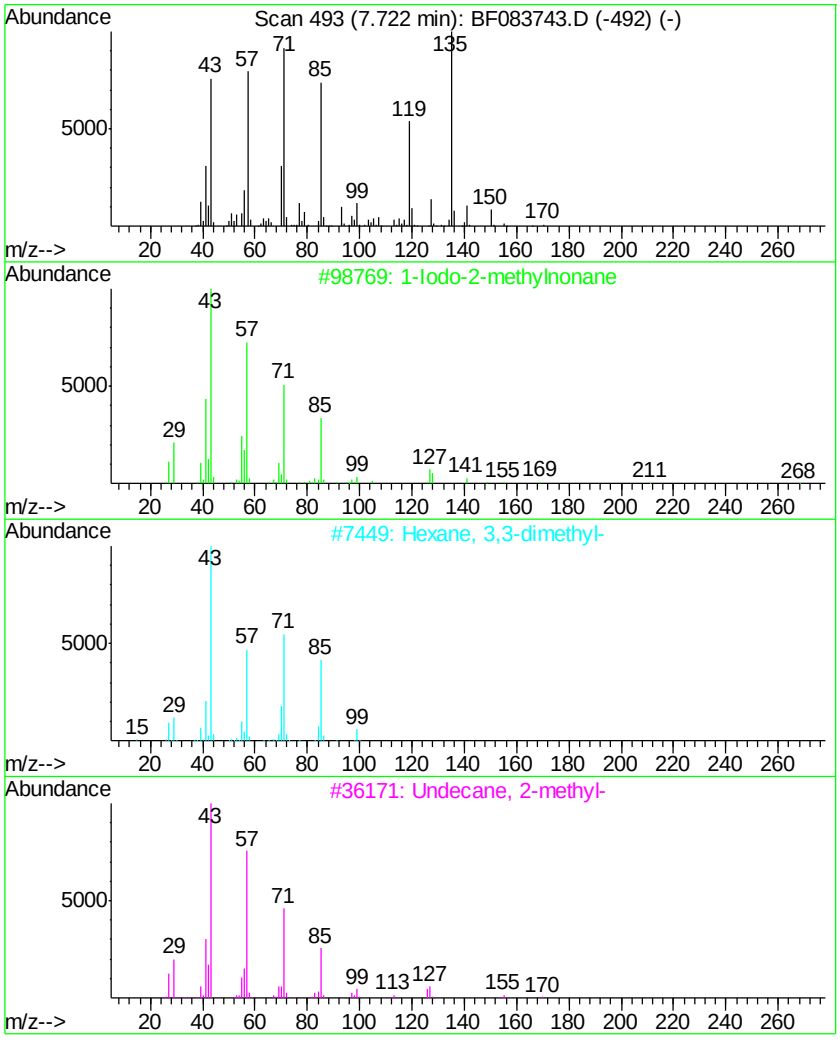
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

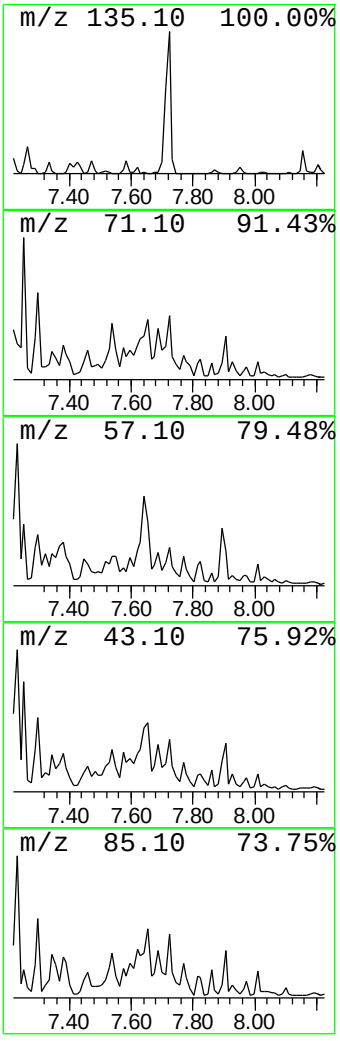
****

Peak Number 6 unknown7.72 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.72	66.38 ng	5957290	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	47
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	43
3	Undecane, 2-methyl-	170	C12H26	007045-71-8	43
4	Decane, 2,3,6-trimethyl-	184	C13H28	062238-12-4	38
5	Undecane, 3-methyl-	170	C12H26	001002-43-3	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

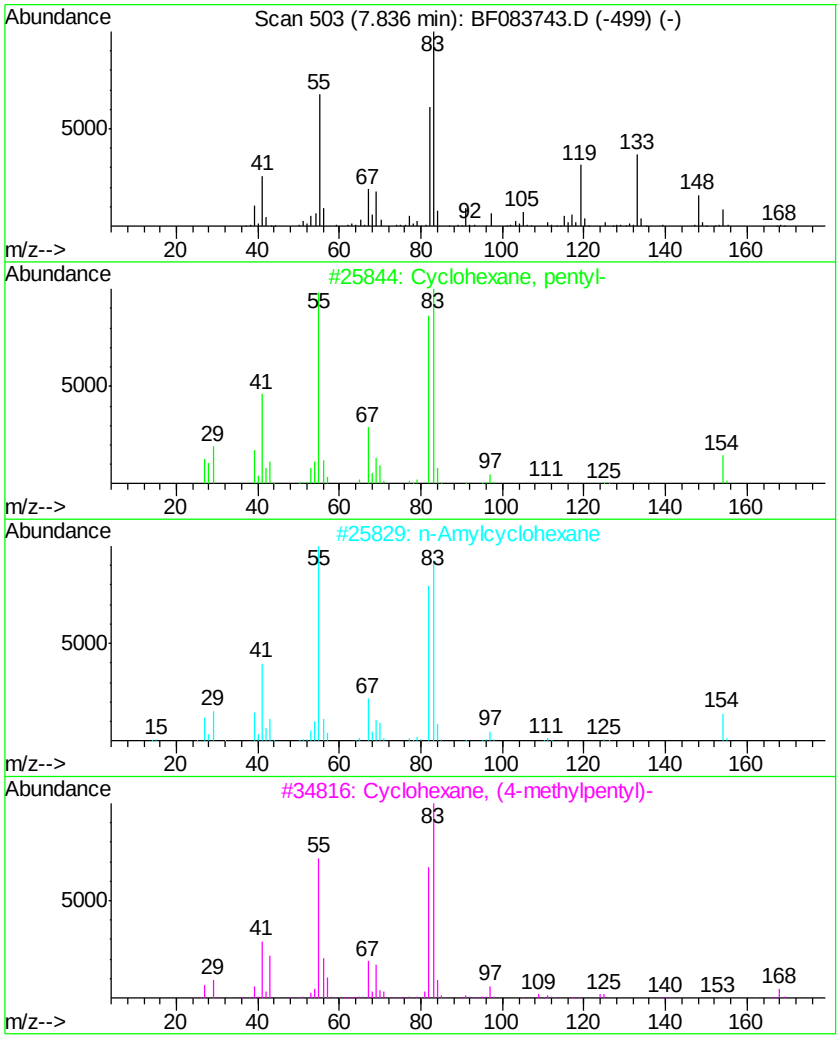
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

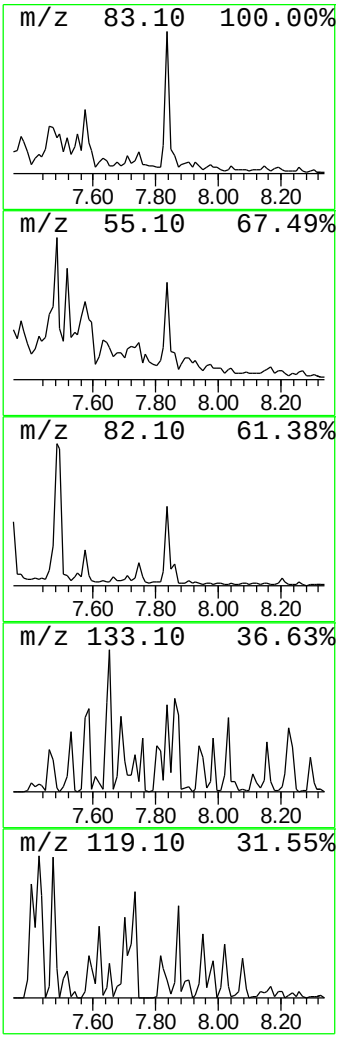
****

Peak Number 7 Cyclohexane, pentyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.84	58.95 ng	5290090	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, pentyl-	154	C11H22	004292-92-6	64
2	n-Amylcyclohexane	154	C11H22	029949-27-7	64
3	Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	50
4	Cyclohexane, octyl-	196	C14H28	001795-15-9	50
5	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

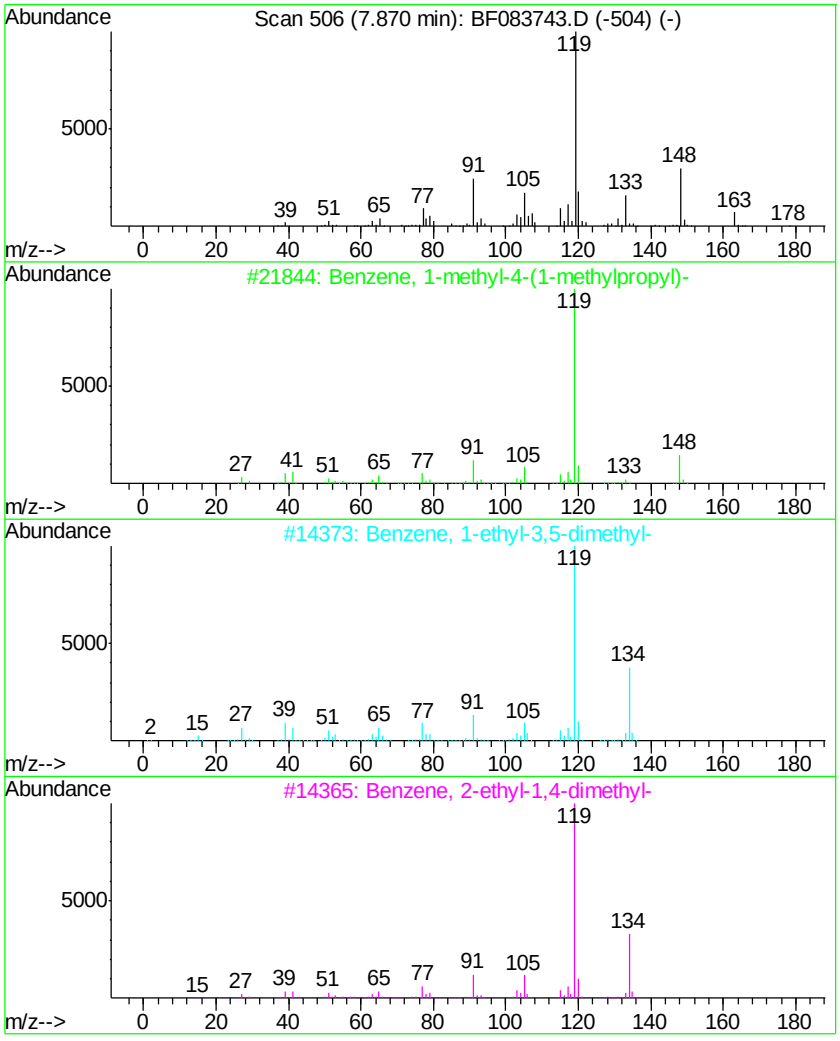
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

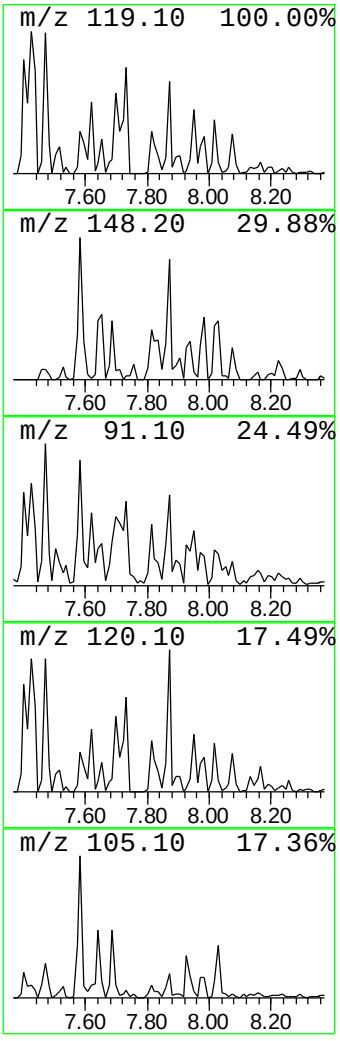
****

Peak Number 8 Benzene, 1-methyl-4-(1-meth... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.87	40.07 ng	3596380	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	87
2	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	64
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	64
4	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	64
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	53





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

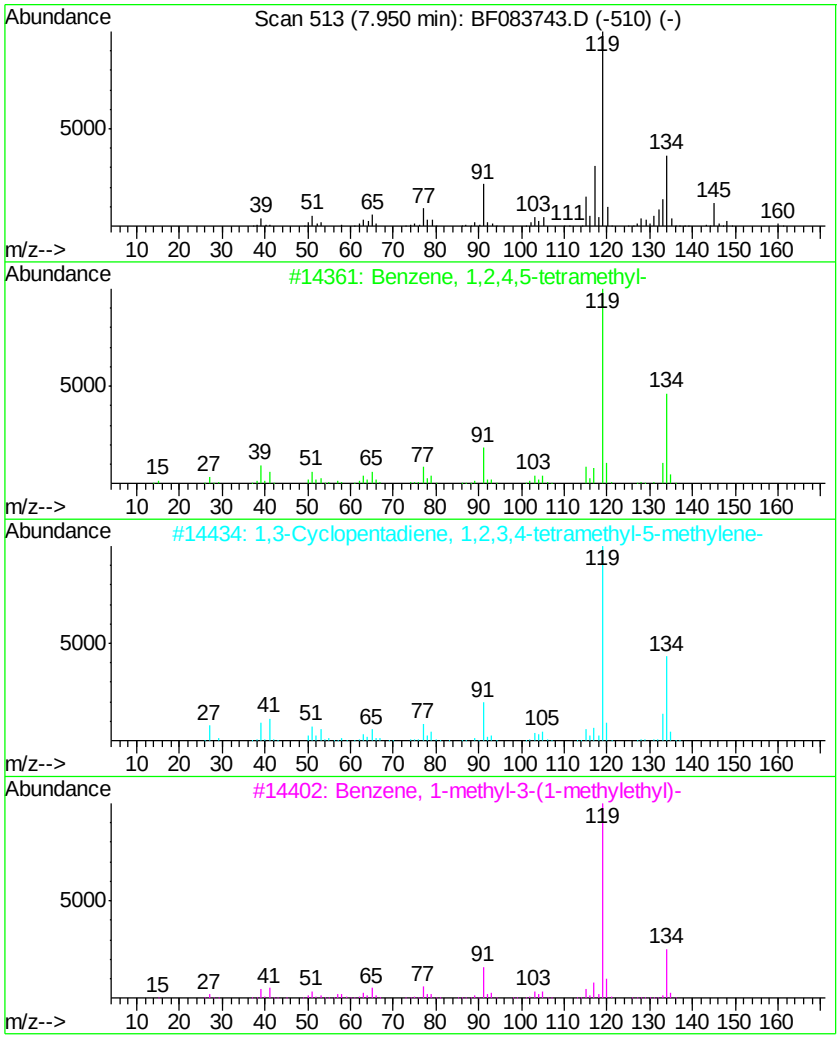
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

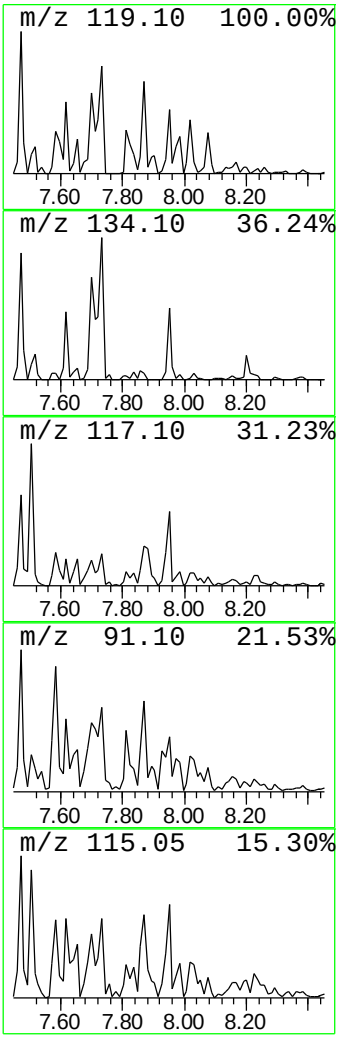
****

Peak Number 9 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.95	36.27 ng	3255160	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	76
2	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	76
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	70
4	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	70
5	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	70





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

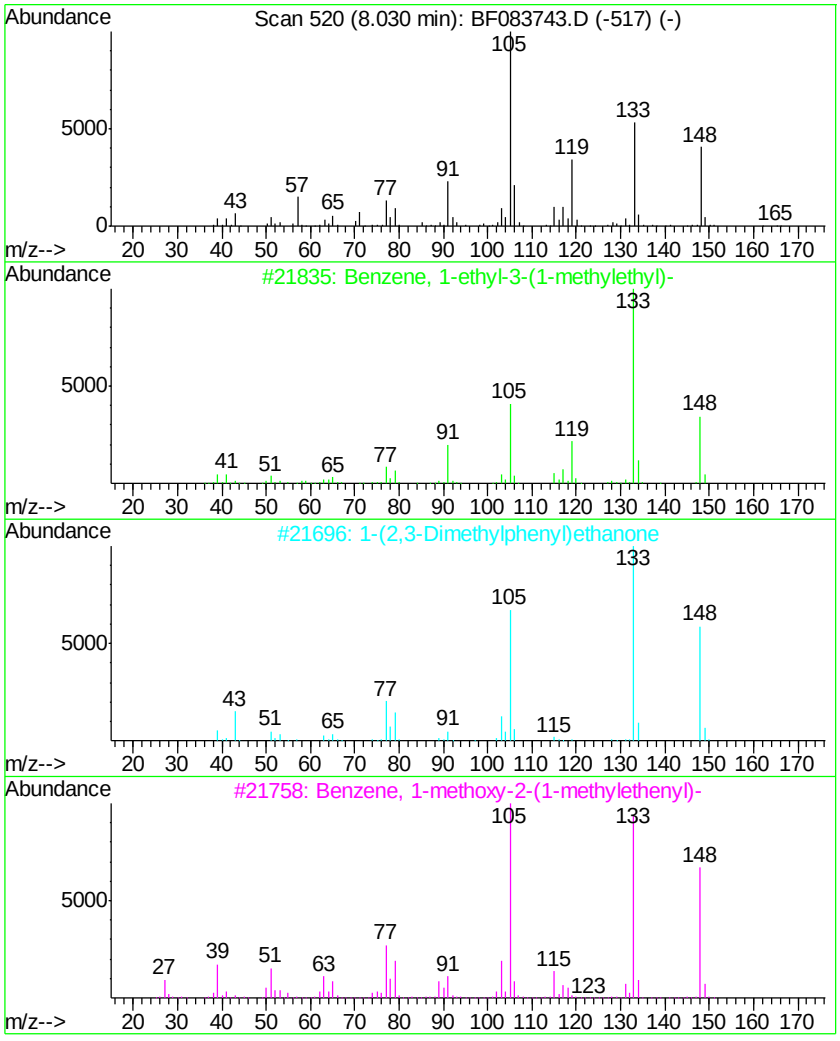
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

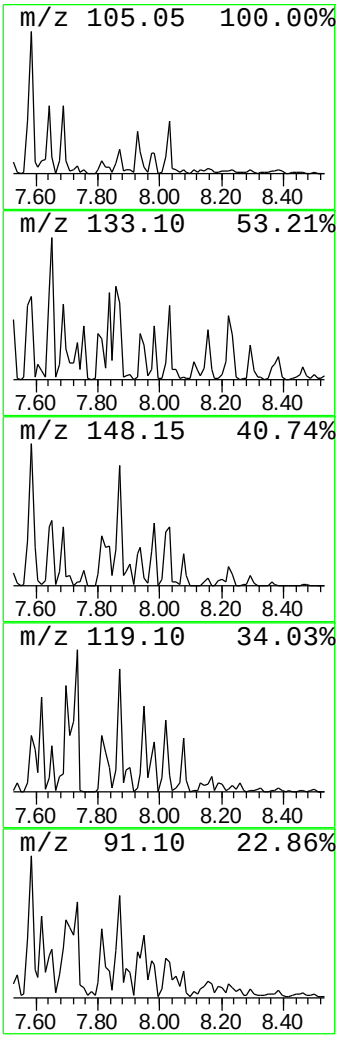
****

Peak Number 10 Benzene, 1-ethyl-3-(1-methy... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.03	34.72 ng	3116290	Naphthalene-d8	8.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-(1-methylethyl)-	148	C11H16	004920-99-4	81
2	1-(2,3-Dimethylphenyl)ethanone	148	C10H12O	002142-71-4	70
3	Benzene, 1-methoxy-2-(1-methylet...	148	C10H12O	010278-02-1	70
4	3-Isopropylbenzaldehyde	148	C10H12O	034246-57-6	62
5	4-Methylphenyl acetone	148	C10H12O	002096-86-8	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121315\
Data File : BF083743.D
Acq On : 13 Dec 2015 21:44
Operator : UM/IZ
Sample : G4648-25
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-X

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Nonane, 4-methyl-	6.46	31.2	ng	16538900	1	6.93	10616200	20.0
unknown7.58	7.58	82.0	ng	7360120	2	8.20	1794860	20.0
unknown7.64	7.64	92.4	ng	8294580	2	8.20	1794860	20.0
Spiro[4.4]nona-1,...	7.69	66.4	ng	5957730	2	8.20	1794860	20.0
unknown7.72	7.72	66.4	ng	5957290	2	8.20	1794860	20.0
Cyclohexane, pentyl-	7.84	59.0	ng	5290090	2	8.20	1794860	20.0
Benzene, 1-methyl...	7.87	40.1	ng	3596380	2	8.20	1794860	20.0
Benzene, 1,2,4,5-...	7.95	36.3	ng	3255160	2	8.20	1794860	20.0
Benzene, 1-ethyl-...	8.03	34.7	ng	3116290	2	8.20	1794860	20.0