LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

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-BF102616.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	4.258	186	190	196	rVB	170843	261975	1.16%	0.076%
2	4.819	236	239	242	rVV	285525	419392	1.85%	0.121%
3	4.887	242	245	254	rVB	697936	1174612	5.19%	0.339%
4	5.093	261	263	265	rBV	276540	378810	1.67%	0.109%
5	5.333	277	284	286	rBV2	3885772	6373275	28.14%	1.841%
6	5.379	286	288	290	rVB	2939225	3541719	15.64%	1.023%
7	5.447	291	294	296	rBV	3938814	4129563	18.23%	1.193%
8	5.481	296	297	299	rVB	744215	629690	2.78%	0.182%
9	5.596	304	307	309	rVB	5773179	6627962	29.26%	1.914%
10	5.630	309	310	312	rVB	444587	377656	1.67%	0.109%
11	5.733	316	319	322	rBV	2938011	4091589	18.07%	1.182%
12	5.801	322	325	328	rBV2	6299799	11295673	49.87%	3.262%
13	5.882	328	332	334	rBV	2891842	4704118	20.77%	1.359%
14	5.916	334	335	340	rBV3	2802032	5589909	24.68%	1.614%
15	5.984	340	341	344	rVB2	2614445	4446600	19.63%	1.284%
16	6.042	344	346	347	rBV	2080344	2617590	11.56%	0.756%
17	6.099	349	351	355	rVB3	1426348	2508850	11.08%	0.725%
18	6.202	355	360	362	rBV2	5768552	17266862	76.24%	4.987%
19	6.247	362	364	368	rVV	5416639	13698857	60.48%	3.956%
20	6.316	368	370	372	rVV	1822367	3411297	15.06%	0.985%
21	6.373	372	375	378	rVB3	4785091	14081277	62.17%	4.067%
22	6.453	378	382	384	rVB	6082966	11420565	50.42%	3.298%
23	6.533	384	389	392	rBV3	5961621	18598591	82.12%	5.371%
24	6.590	392	394	398	rBV2	4634556	7841797	34.62%	2.265%
25	6.647	398	399	400	rBV	1058510	805245	3.56%	0.233%
26	6.693	400	403	405	rBV2	4309534	7139952	31.52%	2.062%
27	6.750	405	408	409	rVV3	1397154	3543121	15.64%	1.023%
28	6.784	409	411	412	rVB	5927006	7820188	34.53%	2.259%
29	6.842	412	416	418	rBV	3095420	6321867	27.91%	1.826%
30	6.887	418	420	426	rVB2	6674054	14570362	64.33%	4.208%
31	6.979	426	428	429	rBV	1121400	1424544	6.29%	0.411%
32	7.036	429	433	437	rVB	5728641	13611504	60.10%	3.931%
33	7.104	437	439	440	rBV	5613885	7181675	31.71%	2.074%
34	7.196	445	447	451	rVB2	5323176	10411981	45.97%	3.007%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

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-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	7.265	451	453	455	rBV	3079641	5038212	22.24%	1.455%
36	7.299	455	456	458	rVB2	2297622	3112101	13.74%	0.899%
37	7.356	458	461	463	rVB3	3466968	6823985	30.13%	1.971%
38	7.390	463	464	465	rBV	1628968	2205530	9.74%	0.637%
39	7.425	465	467	470	rVB	1894149	2531825	11.18%	0.731%
40	7.493	470	473	474	rBV2	2581855	5445834	24.04%	1.573%
41	7.516	474	475	477	rVB2	3734070	3725399	16.45%	1.076%
42	7.562	477	479	480	rBV	2403247	2863659	12.64%	0.827%
43	7.596	480	482	483	rVB	2188098	2702869	11.93%	0.781%
44	7.653	485	487	490	rVB3	797671	1037038	4.58%	0.300%
45	7.790	490	499	501	rBV3	5218478	22649190	100.00%	6.541%
46	7.836	501	503	505	rVV	2363127	4083168	18.03%	1.179%
47	7.939	508	512	514	rBV2	2288574	6877718	30.37%	1.986%
48	7.985	514	516	518	rVB2	2016528	2641750	11.66%	0.763%
49	8.030	518	520	521	rBV	2539094	2974440	13.13%	0.859%
50	8.065	521	523	526	rVB2	1593401	2230331	9.85%	0.644%
51	8.110	526	527	531	rBV3	1456434	2881020	12.72%	0.832%
52	8.179	531	533	537	rVB2	2023665	5525681	24.40%	1.596%
53	8.247	537	539	541	rBV	1719418	2499686	11.04%	0.722%
54	8.396	548	552	554	rBV3	1556653	4094265	18.08%	1.182%
55	8.522	561	563	565	rBV	2069029	3384467	14.94%	0.977%
56	8.556	565	566	568	rVV	1578049	1768098	7.81%	0.511%
57	8.636	571	573	574	rBV	1253576	2438583	10.77%	0.704%
58	8.830	588	590	591	rBV2	1372338	1986047	8.77%	0.574%
59	8.865	591	593	595	rVB	1901288	2983722	13.17%	0.862%
60	8.910	595	597	598	rBV2	958834	1747040	7.71%	0.505%
61	9.105	613	614	616	rBV2	1173494	1581797	6.98%	0.457%
62	9.299	629	631	633	rVB	1546926	1585040	7.00%	0.458%
63	9.528	648	651	654	rVB4	1859980	3527643	15.58%	1.019%
64	9.802	671	675	676	rBV2	2306321	4696482	20.74%	1.356%
65	9.836	676	678	679	rVB2	580429	609196	2.69%	0.176%
66	10.053	695	697	699	rBV2	1052924	1178845	5.20%	0.340%
67	10.453	730	732	735	rVB	1240023	1738794	7.68%	0.502%
68	12.865	941	943	945	rBV	1764067	2033136	8.98%	0.587%
69	13.905	1032	1034	1039	rVB2	1020969	1638198	7.23%	0.473%
70	14.237	1061	1063	1066	rVB	391713	606284	2.68%	0.175%
71	14.648	1097	1099	1102	rBV	607613	737177	3.25%	0.213%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

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-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.288	1153	1155	1165	rVB	750147	1342312	5.93%	0.388%
73	16.317	1243	1245	1255	rVB	171537	410011	1.81%	0.118%

Sum of corrected areas: 346255241

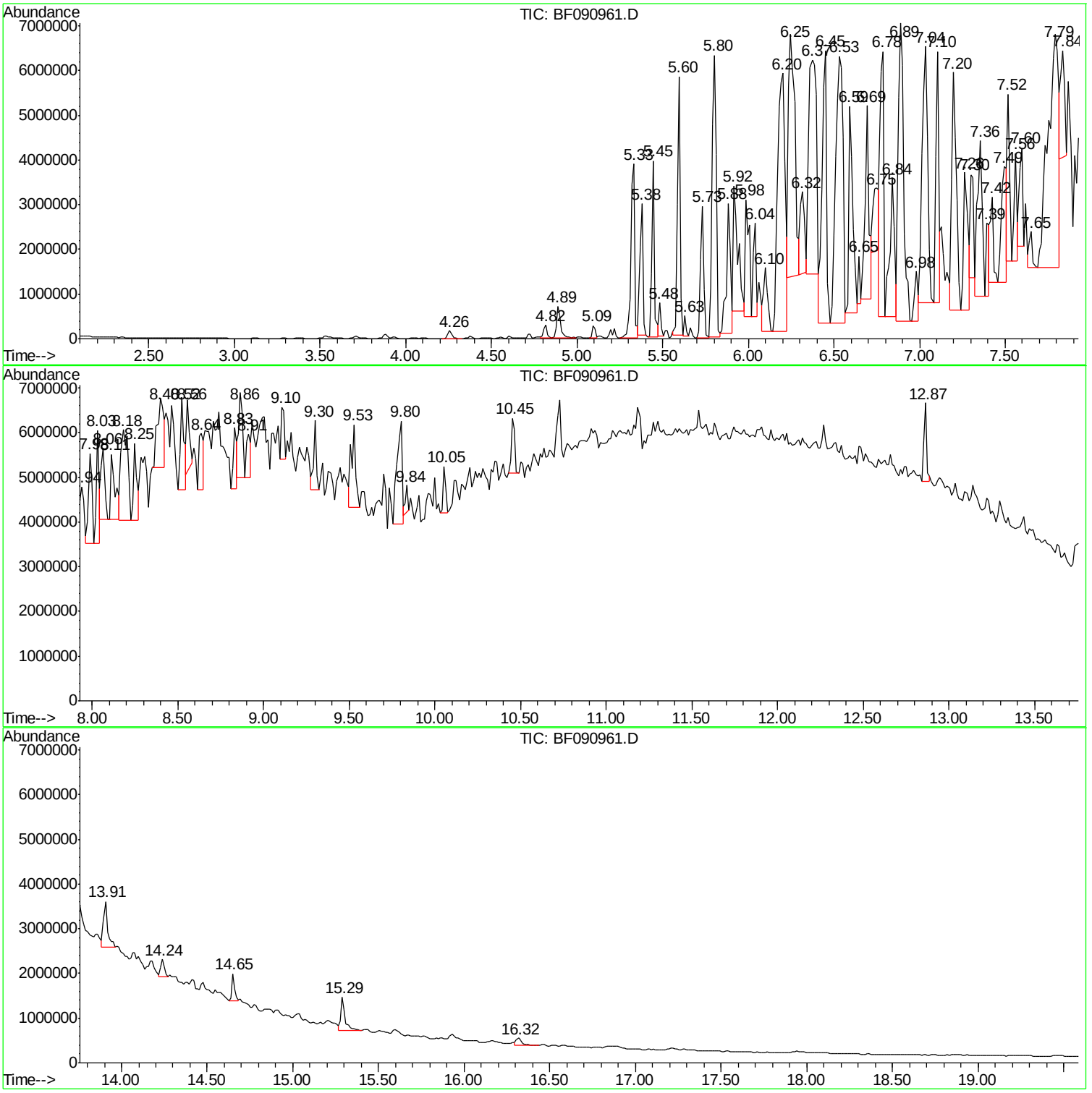
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.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\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

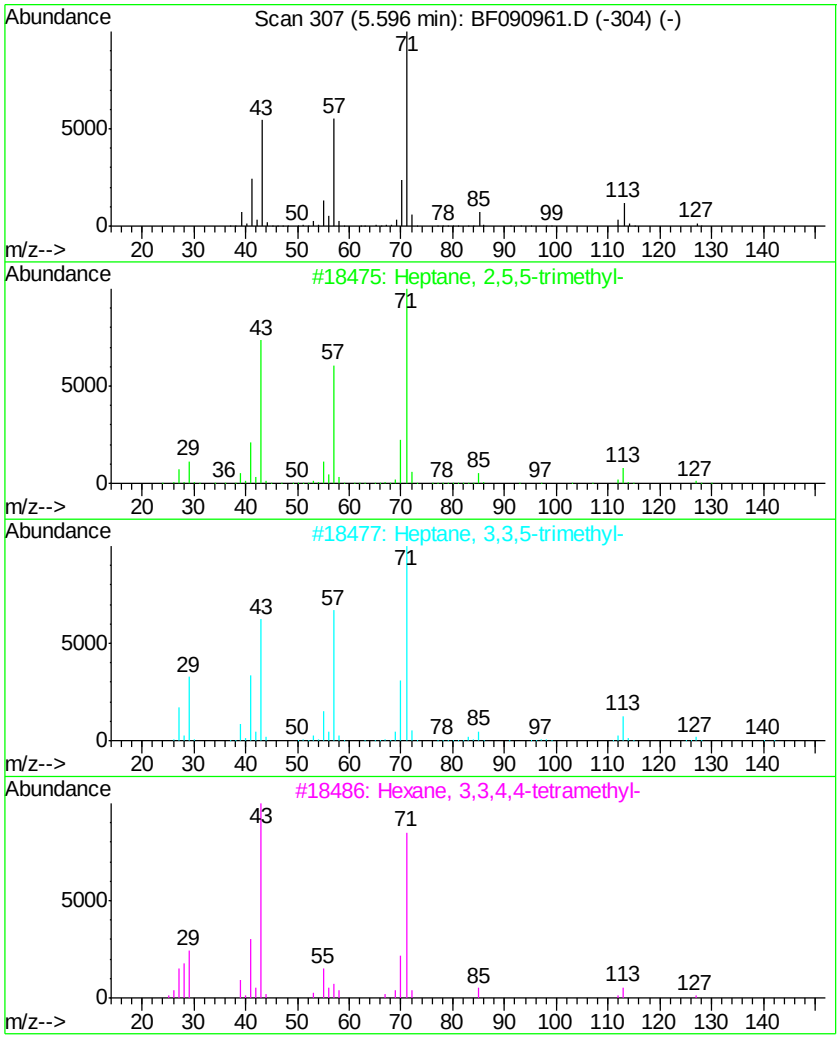
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

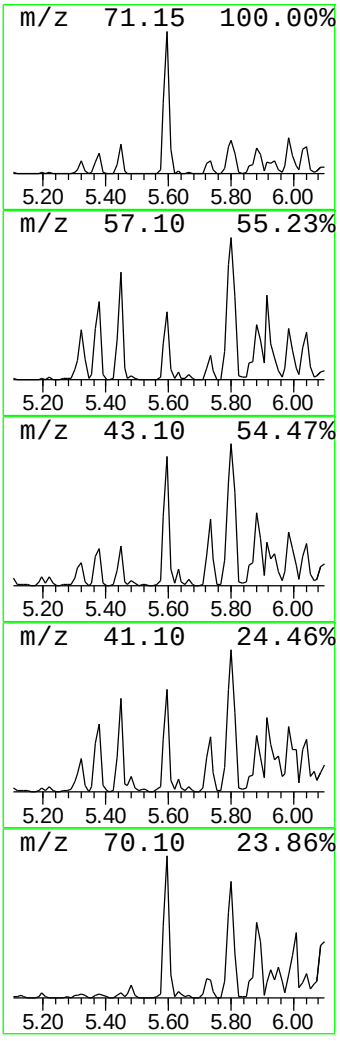
****

Peak Number 1 Heptane, 2,5,5-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.60	37.41 ng	6627960	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,5,5-trimethyl-	142	C10H22	001189-99-7	90
2	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	90
3	Hexane, 3,3,4,4-tetramethyl-	142	C10H22	005171-84-6	83
4	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	83
5	Octane, 4-bromo-	192	C8H17Br	000999-06-4	59





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

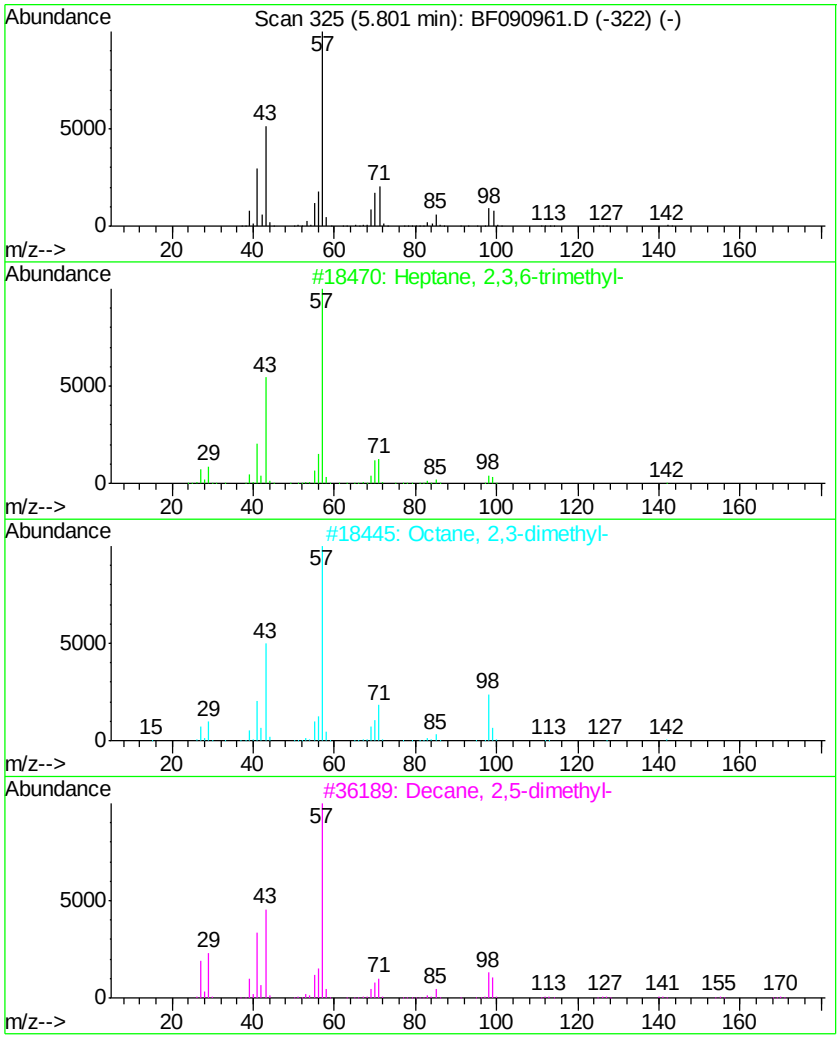
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

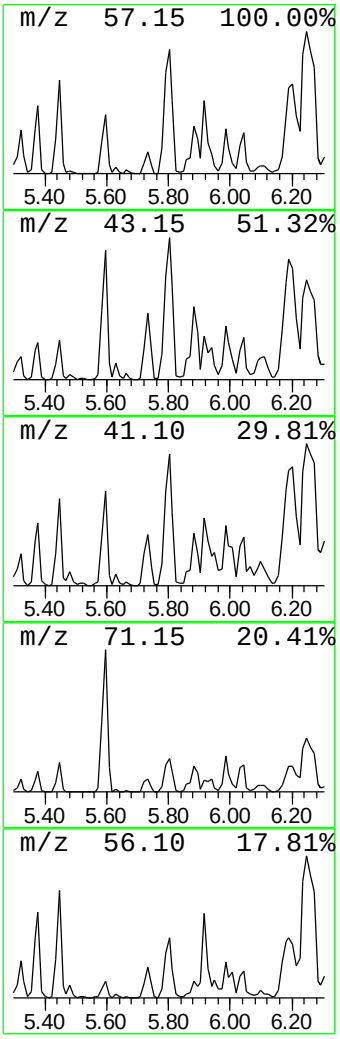
****

Peak Number 2 Heptane, 2,3,6-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.80	63.76 ng	11295700	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,3,6-trimethyl-	142	C10H22	004032-93-3	90
2	Octane, 2,3-dimethyl-	142	C10H22	007146-60-3	72
3	Decane, 2,5-dimethyl-	170	C12H26	017312-50-4	64
4	Hexane, 3-ethyl-2,5-dimethyl-	142	C10H22	052897-04-8	59
5	Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	59





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

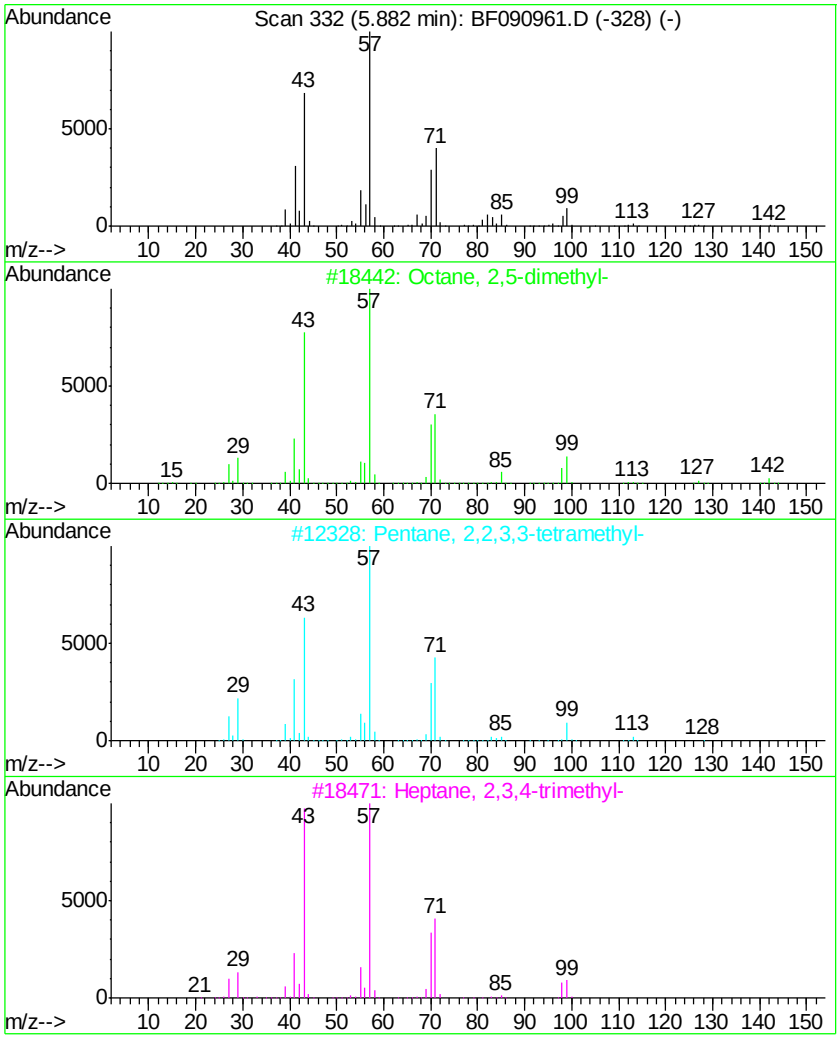
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

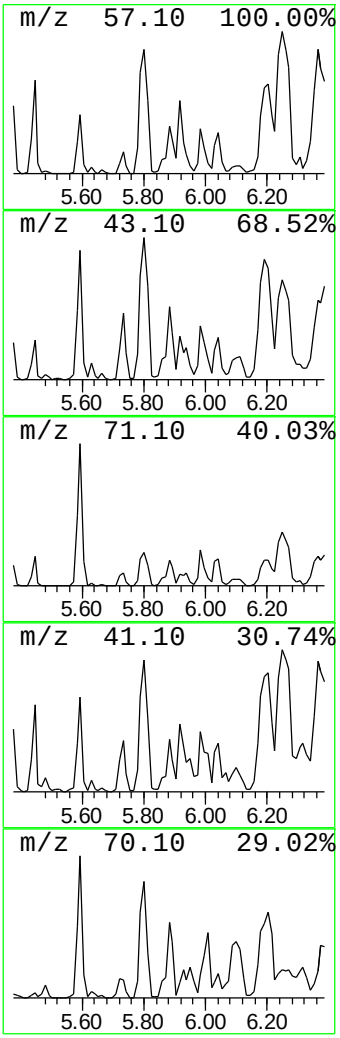
****

Peak Number 3 Octane, 2,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.88	26.55 ng	4704120	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	78
2	Pentane, 2,2,3,3-tetramethyl-	128	C9H20	007154-79-2	72
3	Heptane, 2,3,4-trimethyl-	142	C10H22	052896-95-4	72
4	Nonane, 4-methyl-	142	C10H22	017301-94-9	64
5	Decane, 2,5,9-trimethyl-	184	C13H28	062108-22-9	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

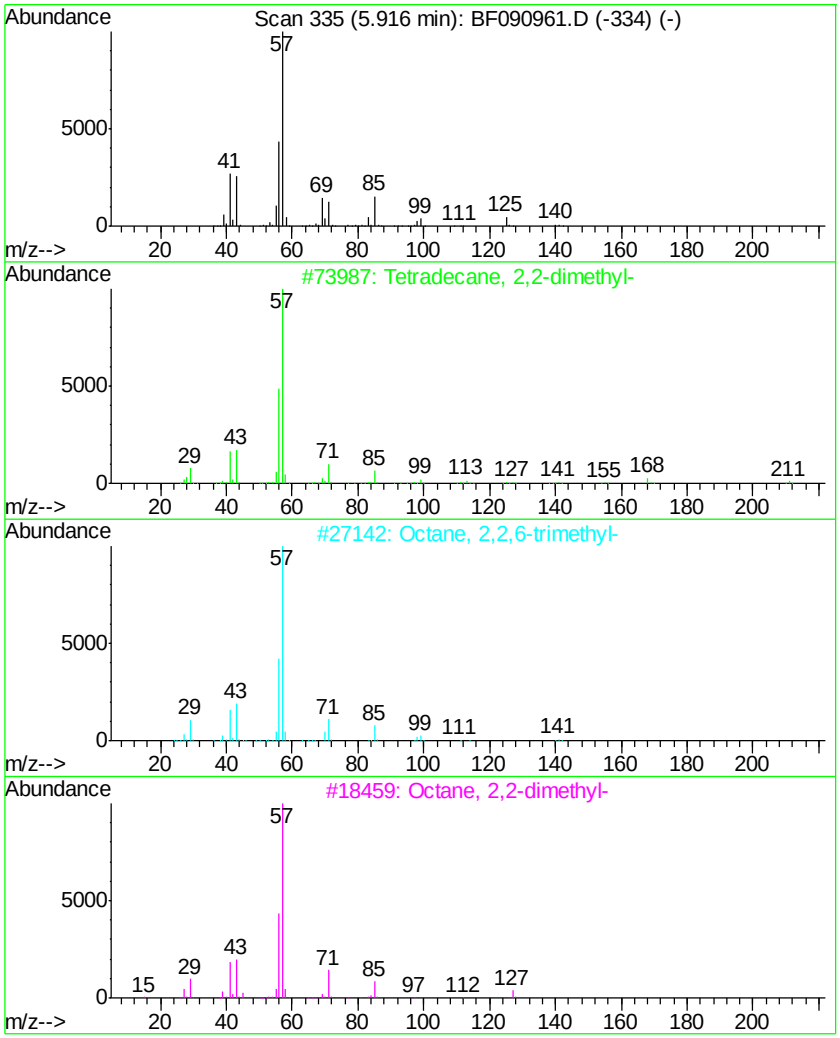
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

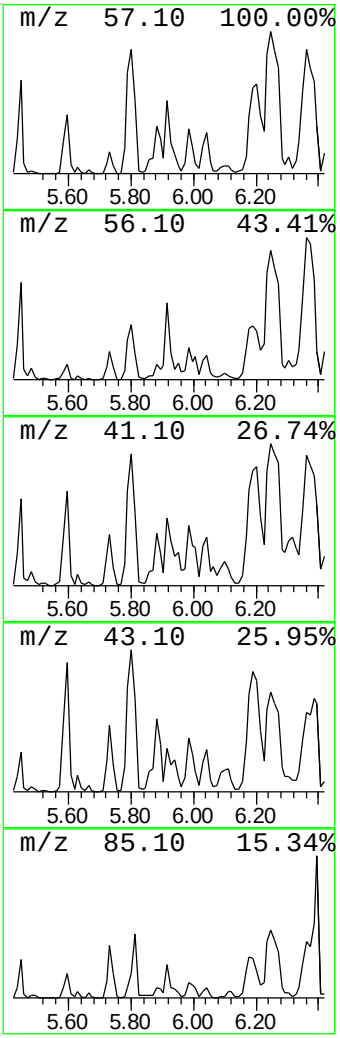
****

Peak Number 4 Tetradecane, 2,2-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.92	31.55 ng	5589910	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 2,2-dimethyl-	226	C16H34	059222-86-5	64
2	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	59
3	Octane, 2,2-dimethyl-	142	C10H22	015869-87-1	53
4	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	53
5	Heptane, 2,2,4-trimethyl-	142	C10H22	014720-74-2	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

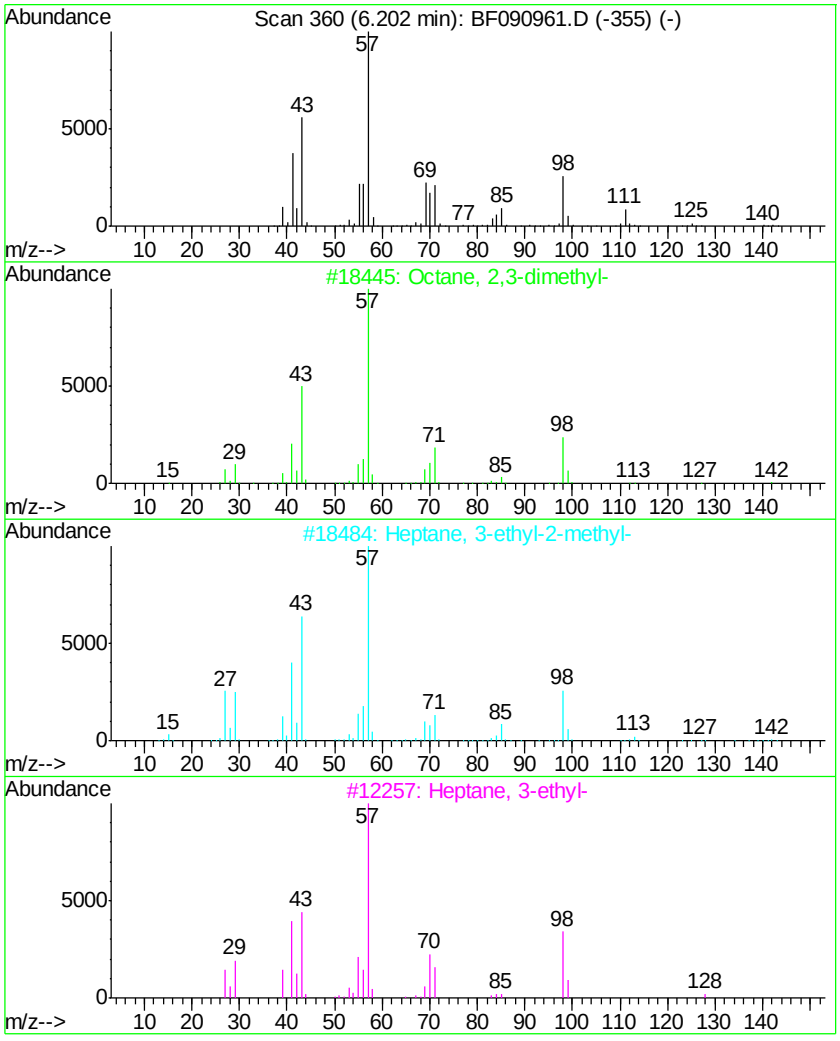
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

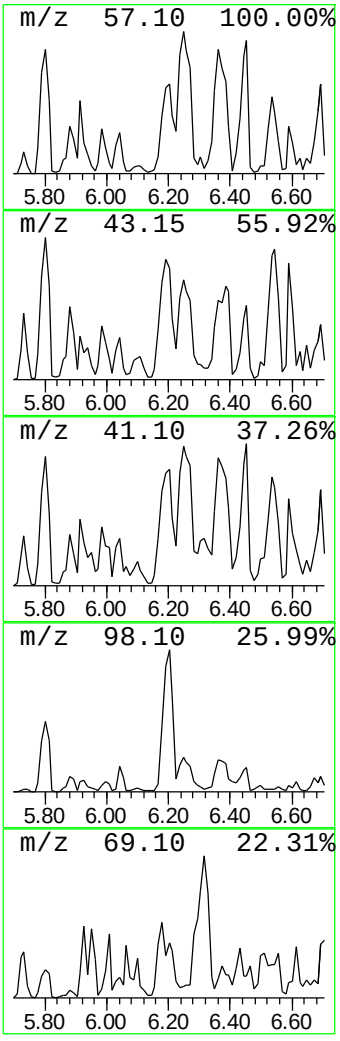
****

Peak Number 5 Octane, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.20	97.47 ng	17266900	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,3-dimethyl-	142	C10H22	007146-60-3	64
2	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	58
3	Heptane, 3-ethyl-	128	C9H20	015869-80-4	53
4	1,3,2-Dioxaborolane, 4,4-dimethy...	142	C6H11BO3	1000063-89-2	53
5	Heptane, 2,3,6-trimethyl-	142	C10H22	004032-93-3	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

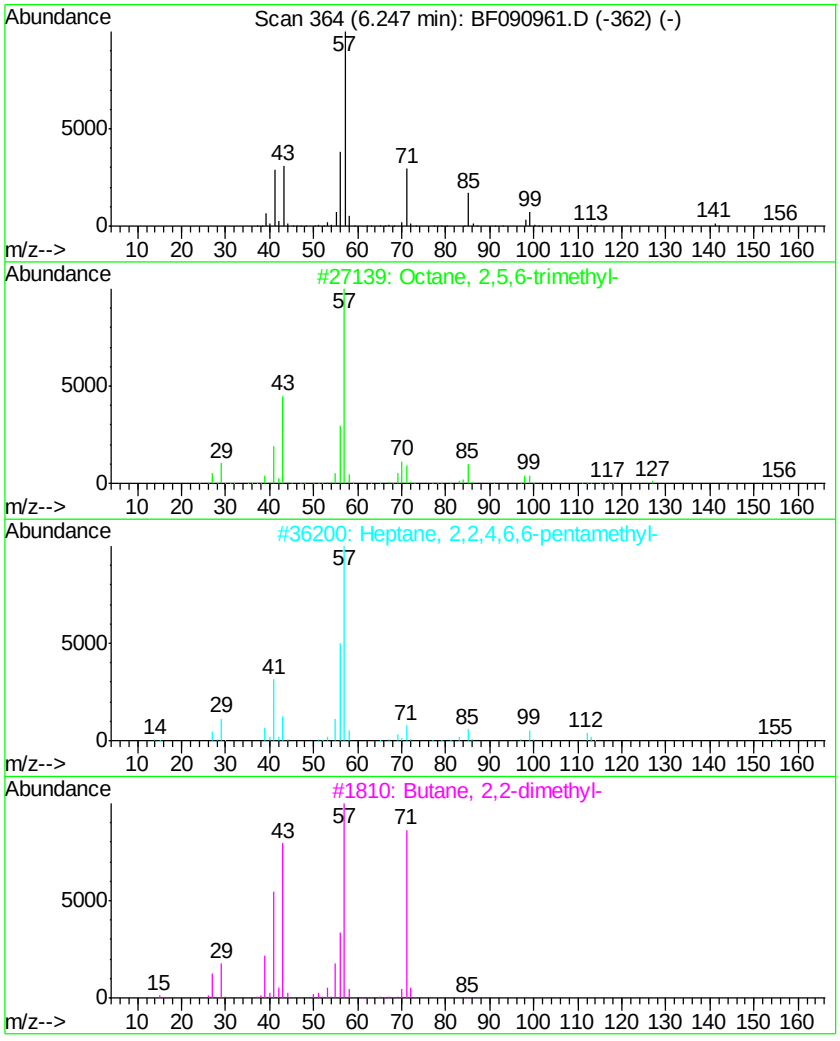
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

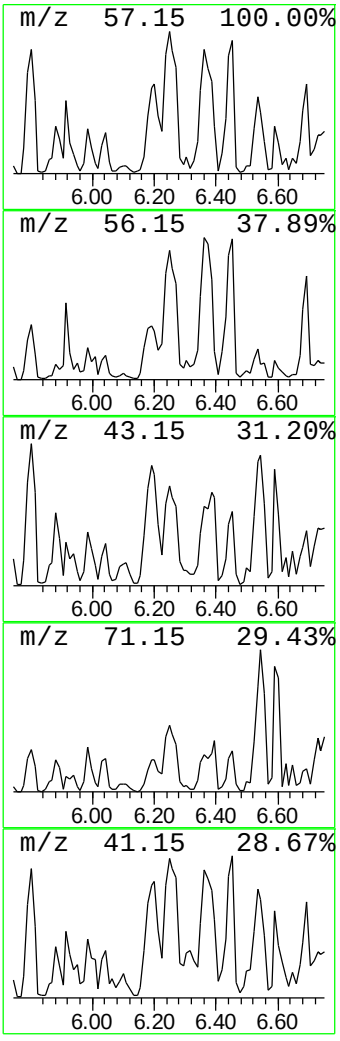
****

Peak Number 6 Octane, 2,5,6-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.25	77.33 ng	13698900	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,5,6-trimethyl-	156	C11H24	062016-14-2	59
2	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	59
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	53
4	3-Hexanone, 2,4-dimethyl-	128	C8H16O	018641-70-8	50
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	47





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

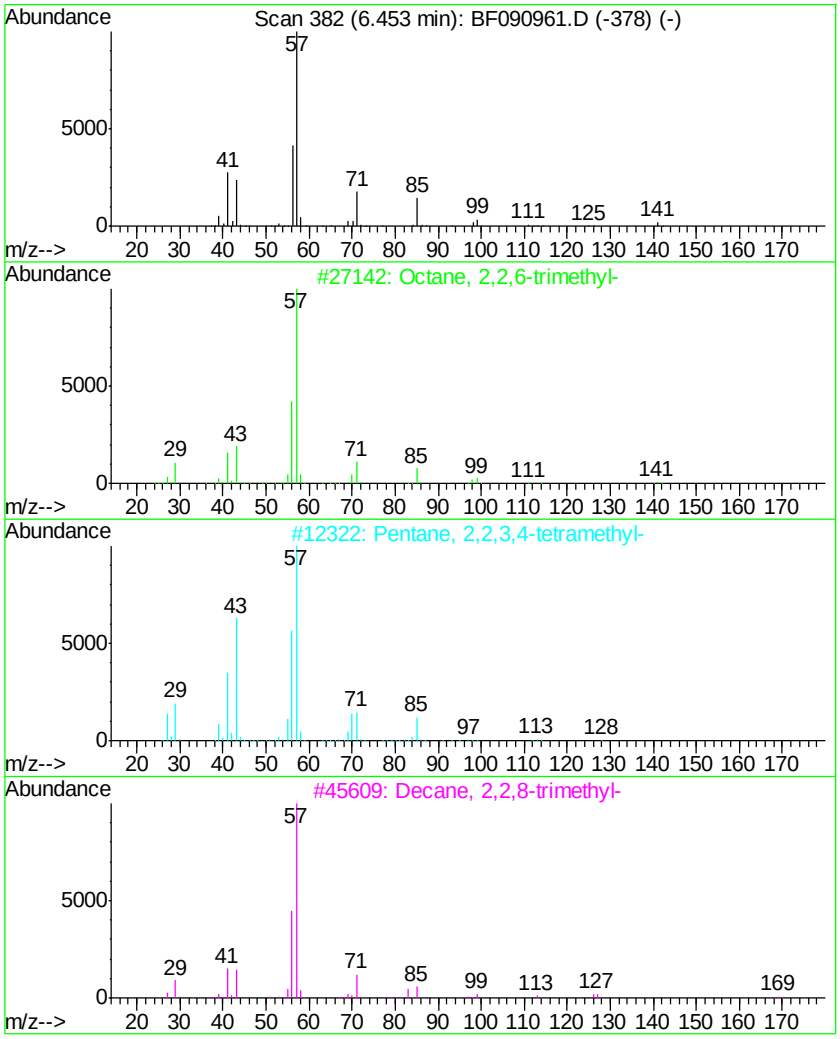
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

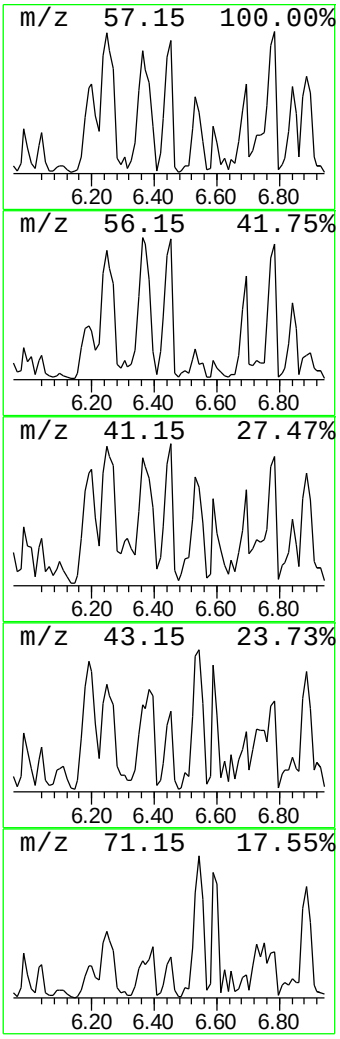
****

Peak Number 7 Octane, 2,2,6-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.45	64.47 ng	11420600	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	83
2	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	78
3	Decane, 2,2,8-trimethyl-	184	C13H28	062238-01-1	78
4	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	78
5	Octane, 2,2-dimethyl-	142	C10H22	015869-87-1	78





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Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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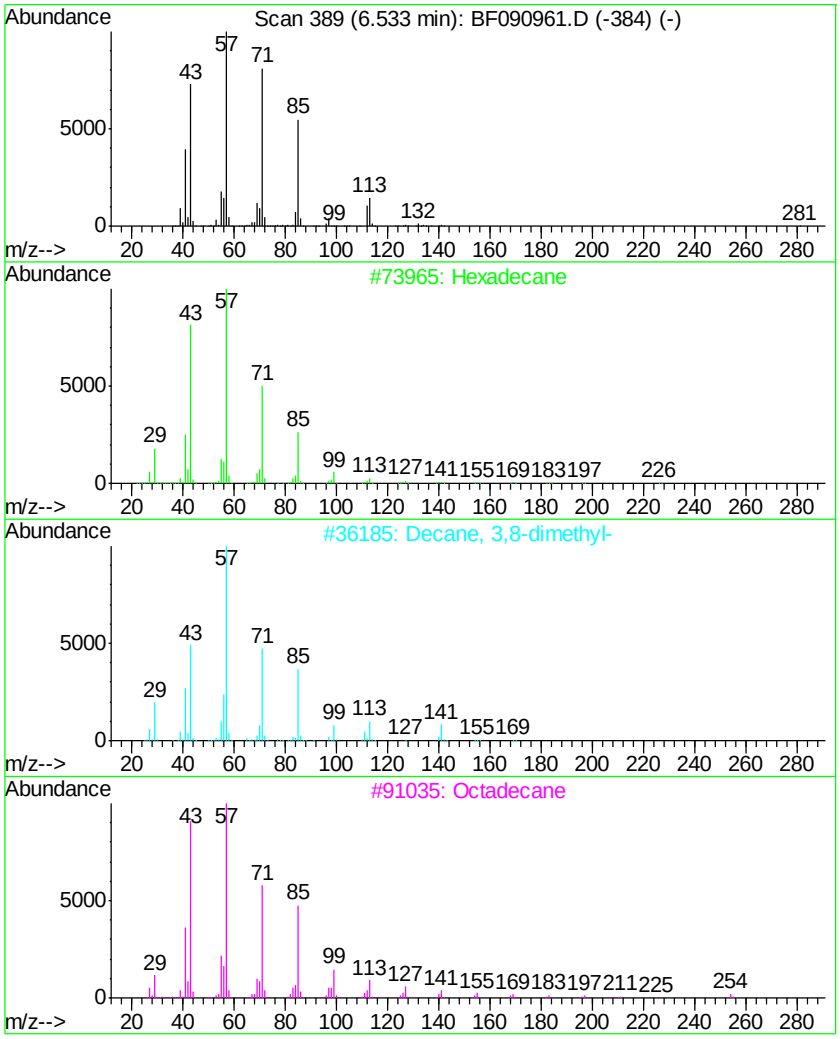
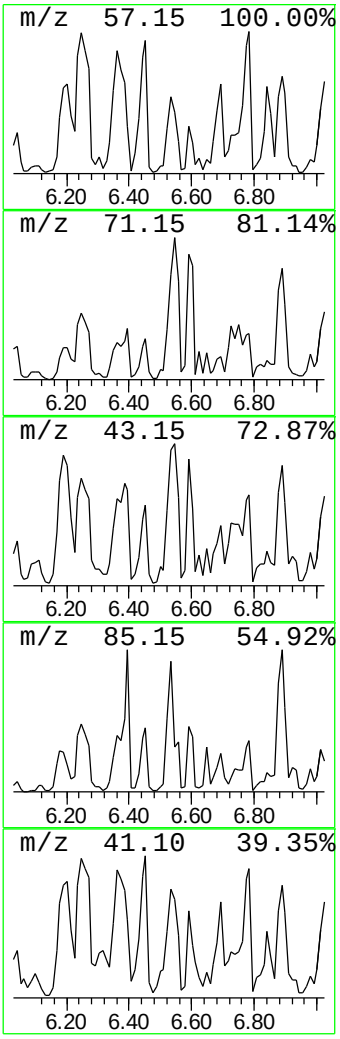
Peak Number 8 Hexadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.53	104.98 ng	18598600	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	83
2	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	83
3	Octadecane	254	C18H38	000593-45-3	78
4	Decane, 5-propyl-	184	C13H28	017312-62-8	78
5	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	78





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Sample : H5502-07
Misc :
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Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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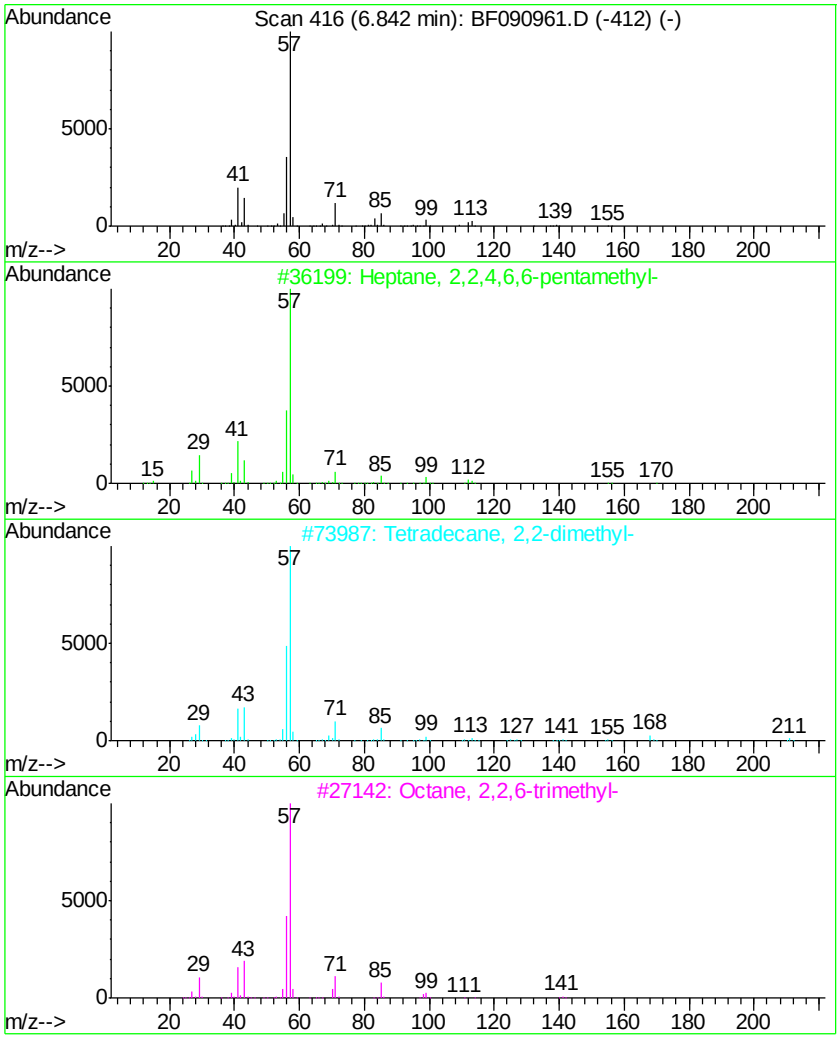
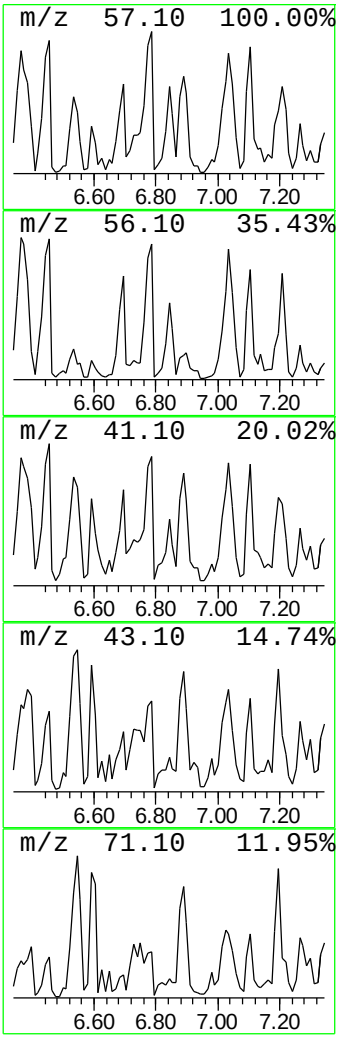
Peak Number 10 Heptane, 2,2,4,6,6-pentamet... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.84	35.69 ng	6321870	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78
2	Tetradecane, 2,2-dimethyl-	226	C16H34	059222-86-5	78
3	Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	72
4	Decane, 2,2-dimethyl-	170	C12H26	017302-37-3	72
5	Octane, 2,2-dimethyl-	142	C10H22	015869-87-1	64





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Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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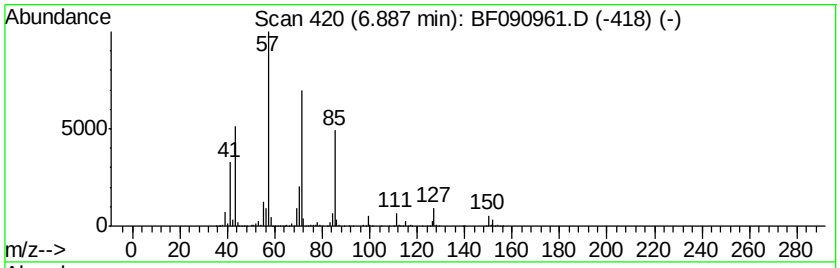
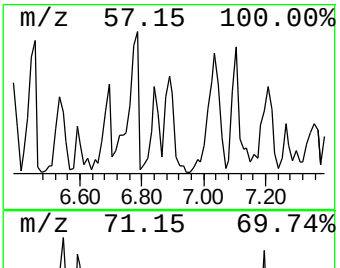
Peak Number 11 Undecane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.89	82.25 ng	14570400	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,3-dimethyl-	184	C13H28	017312-77-5	53
2	1-Iodoundecane	282	C11H23I	004282-44-4	50
3	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	50
4	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	47
5	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	47





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Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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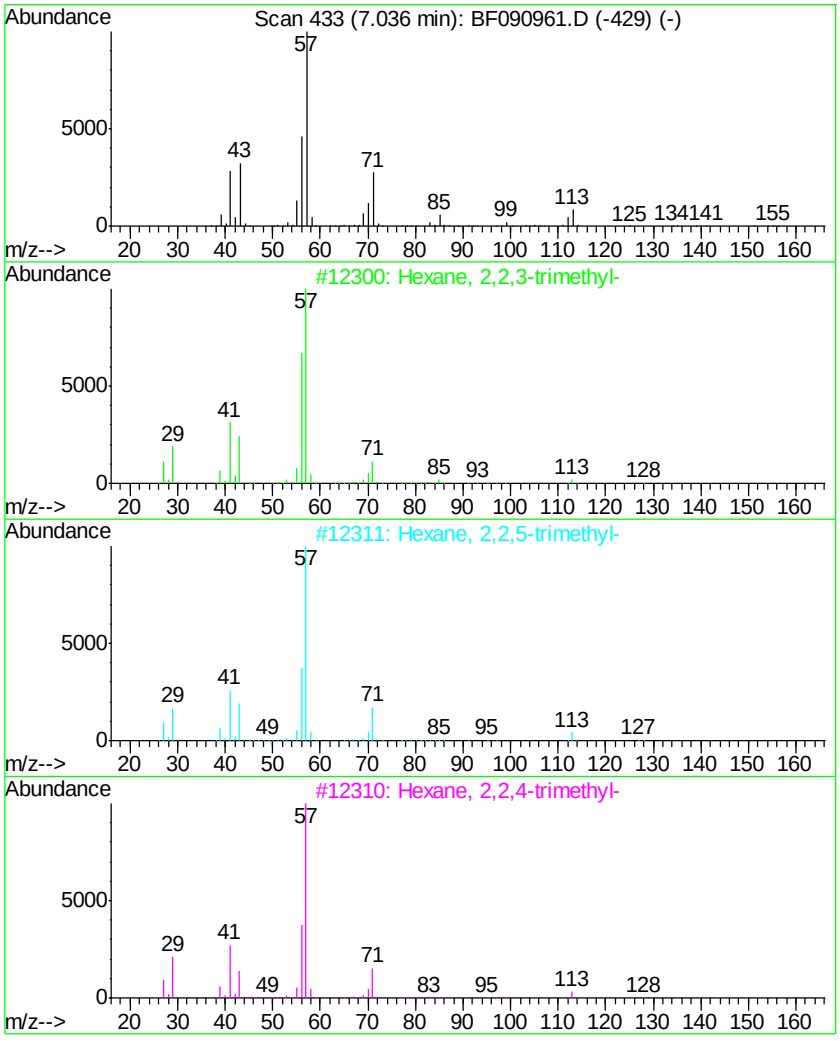
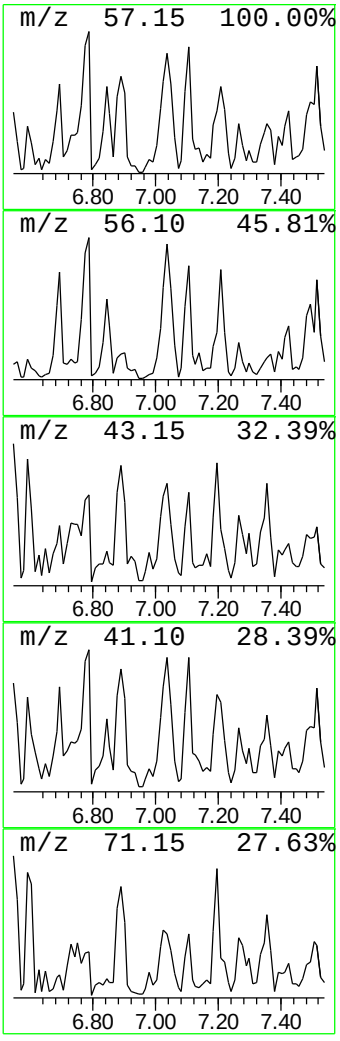
Peak Number 12 Hexane, 2,2,3-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.04	76.83 ng	13611500	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	64
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	59
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	59
4	Heptane, 2,2-dimethyl-	128	C9H20	001071-26-7	53
5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	53





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Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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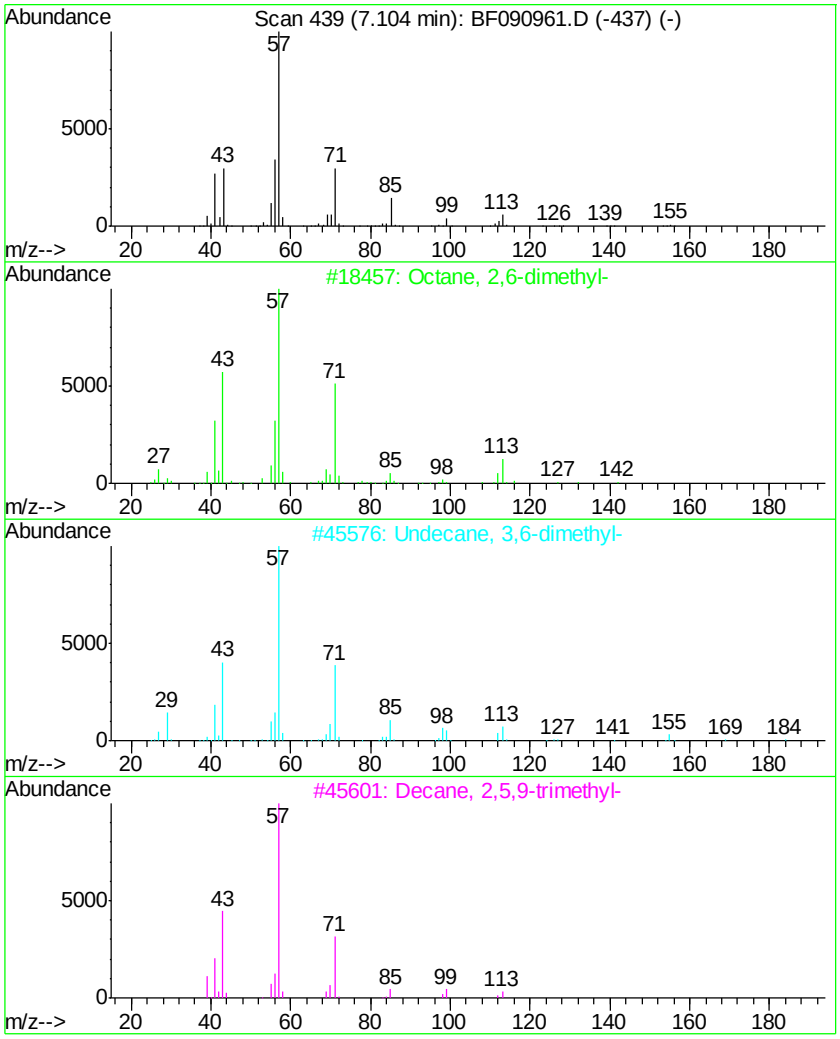
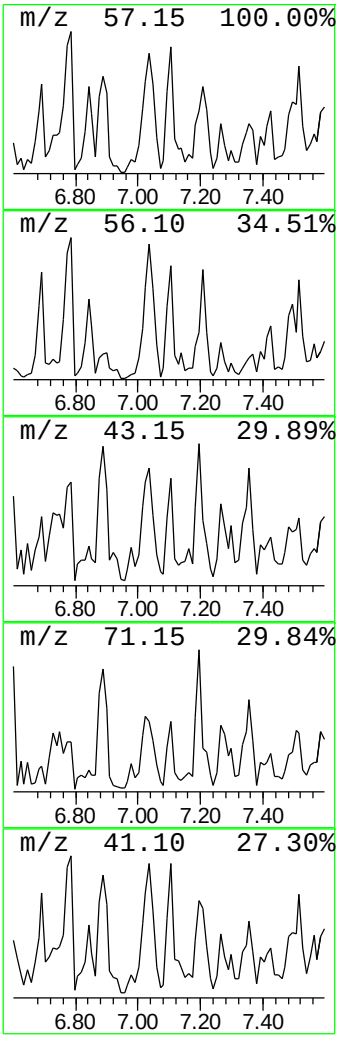
Peak Number 13 Octane, 2,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.10	40.54 ng	7181680	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	64
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	59
3	Decane, 2,5,9-trimethyl-	184	C13H28	062108-22-9	59
4	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	53
5	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	53





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Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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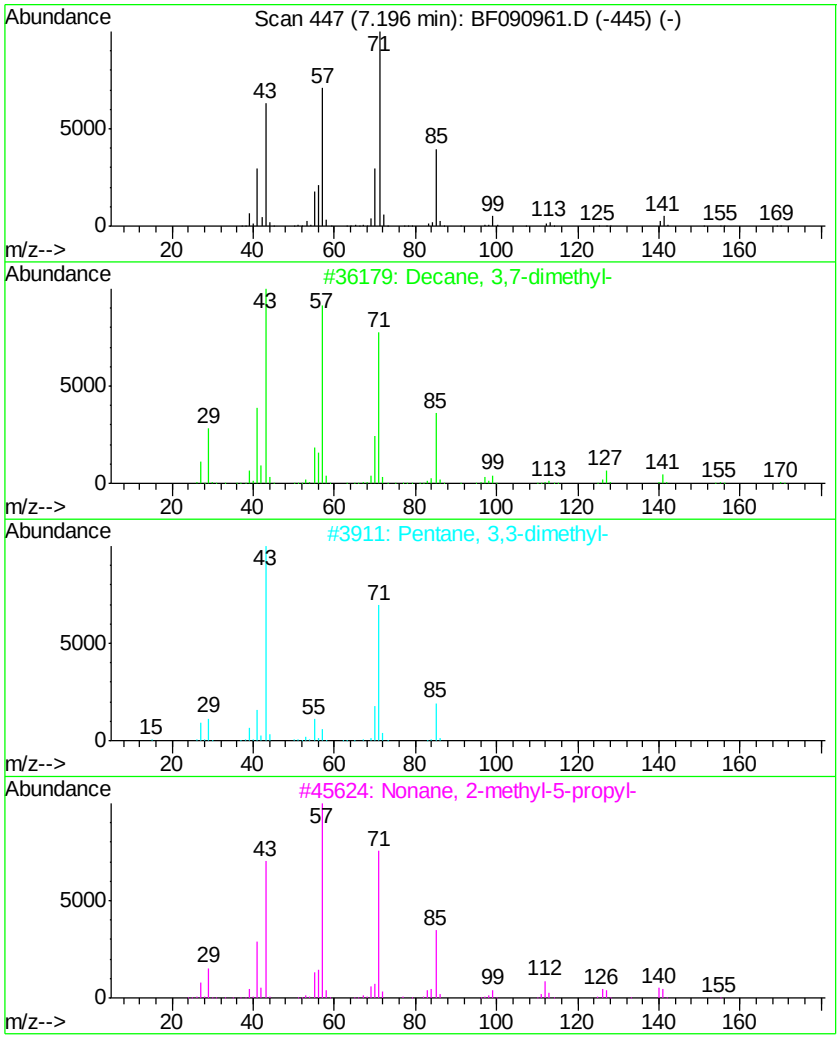
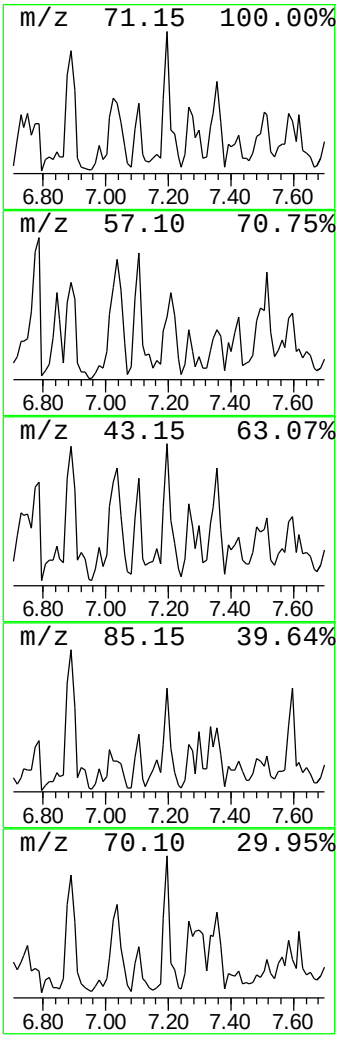
Peak Number 14 Decane, 3,7-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	58.77 ng	10412000	1,4-Dichlorobenzene-d4	6.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,7-dimethyl-	170	C12H26	017312-54-8	78
2	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	64
3	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	59
4	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	50
5	Heptane, 2,5,5-trimethyl-	142	C10H22	001189-99-7	50





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Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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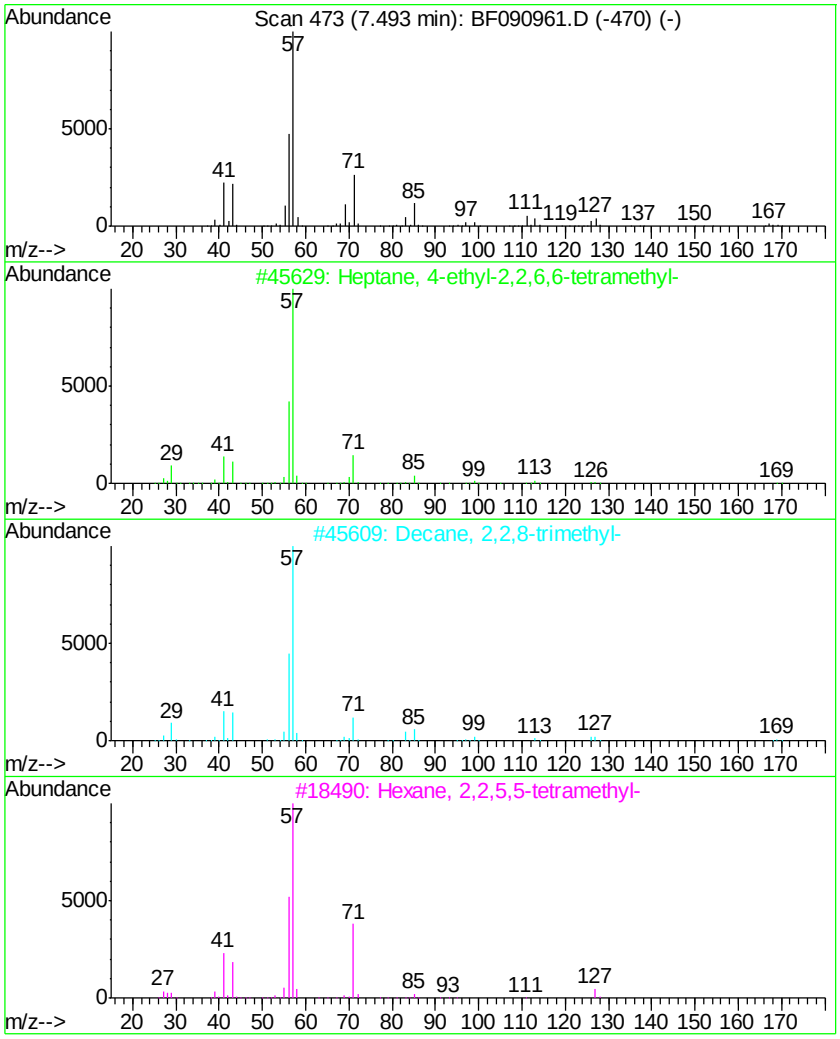
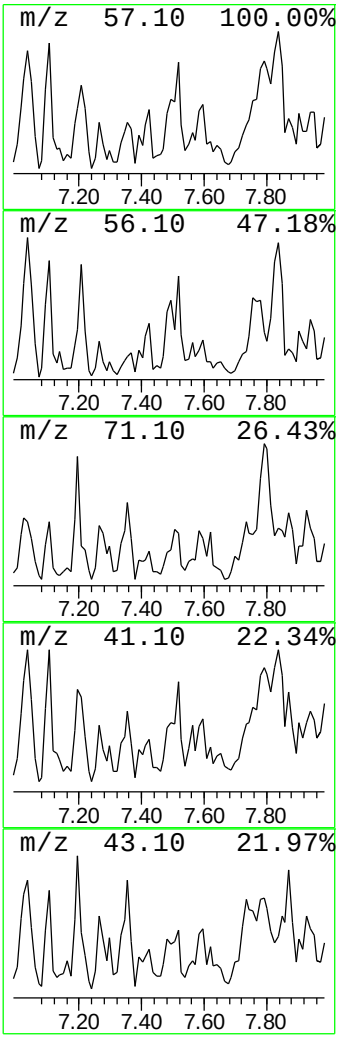
Peak Number 15 Heptane, 4-ethyl-2,2,6,6-te... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.49	36.62 ng	5445830	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-ethyl-2,2,6,6-tetrame...	184	C13H28	062108-31-0	64
2	Decane, 2,2,8-trimethyl-	184	C13H28	062238-01-1	59
3	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	59
4	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	59
5	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	59





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Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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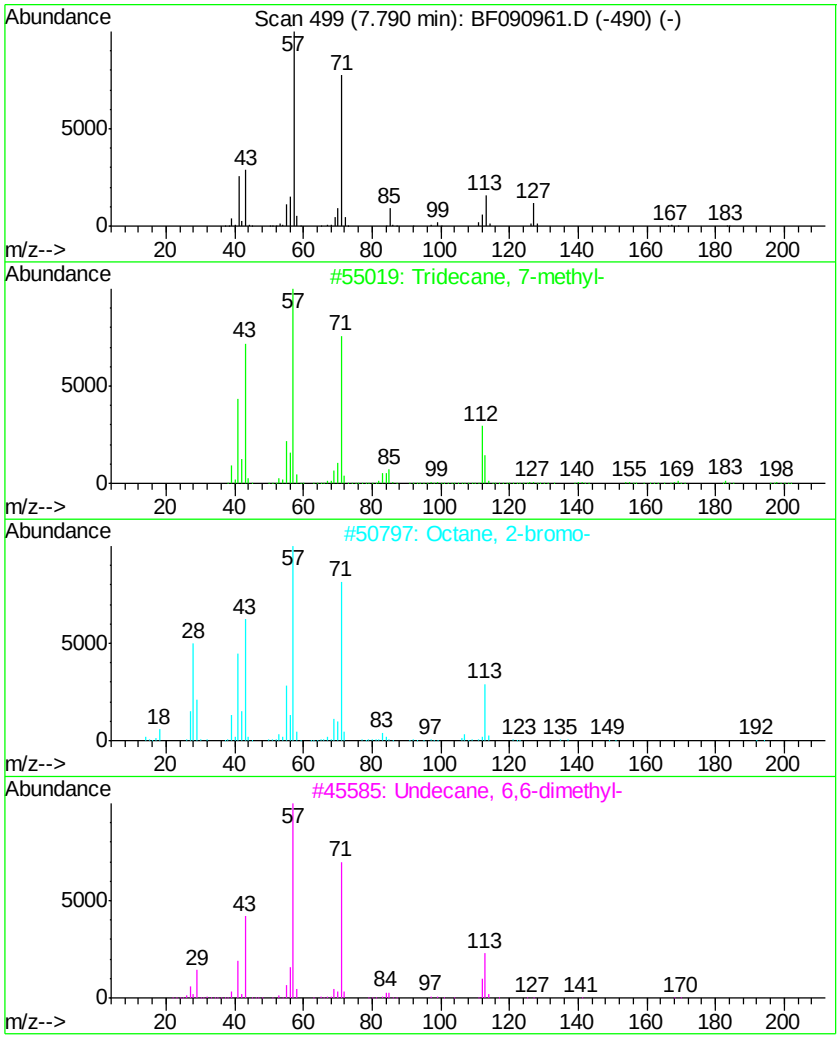
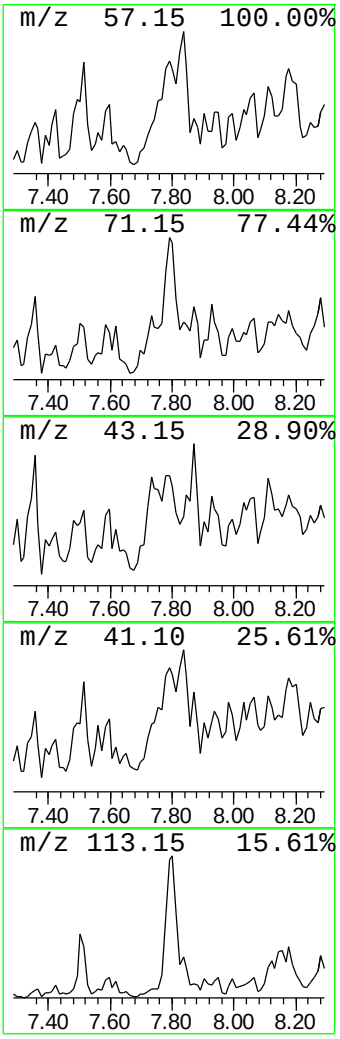
Peak Number 16 Tridecane, 7-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.79	152.29 ng	22649200	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 7-methyl-	198	C14H30	026730-14-3	78
2	Octane, 2-bromo-	192	C8H17Br	000557-35-7	72
3	Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	72
4	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	64
5	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	64





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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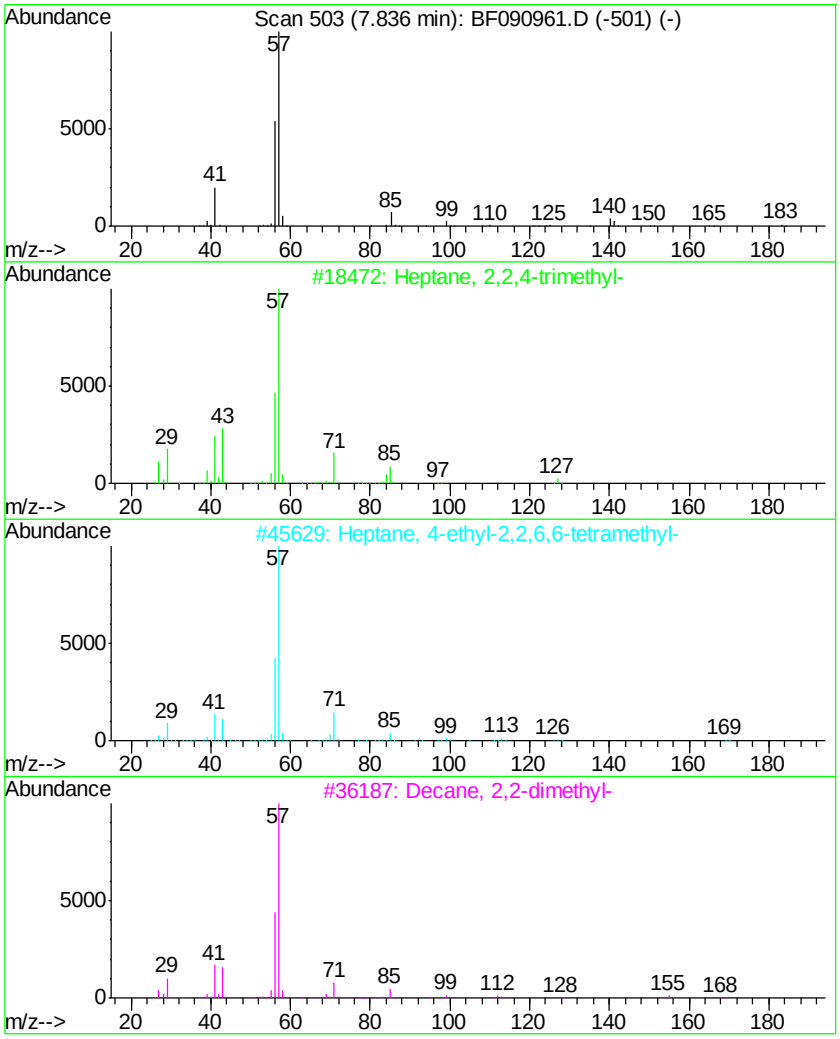
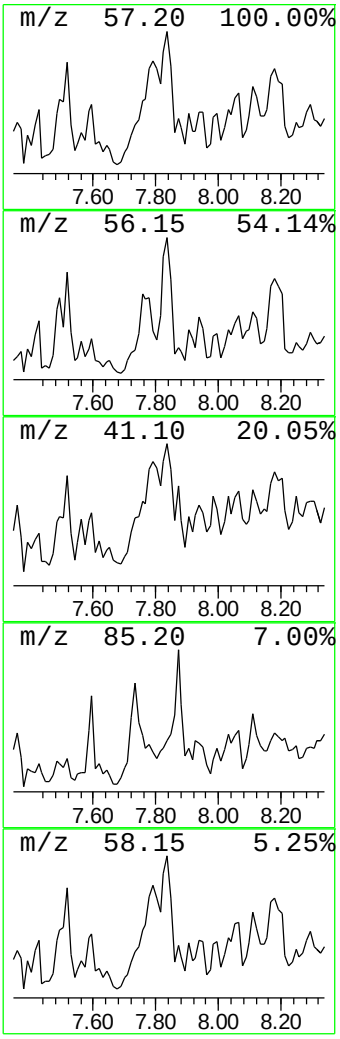
Peak Number 17 Heptane, 2,2,4-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.84	27.46 ng	4083170	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,4-trimethyl-	142	C10H22	014720-74-2	50
2	Heptane, 4-ethyl-2,2,6,6-tetrame...	184	C13H28	062108-31-0	39
3	Decane, 2,2-dimethyl-	170	C12H26	017302-37-3	39
4	Urea, N,N'-di-2-propenyl-	140	C7H12N2O	001801-72-5	38
5	trans-2,3-Epoxyoctane	128	C8H16O	028180-70-3	9





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Misc :
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Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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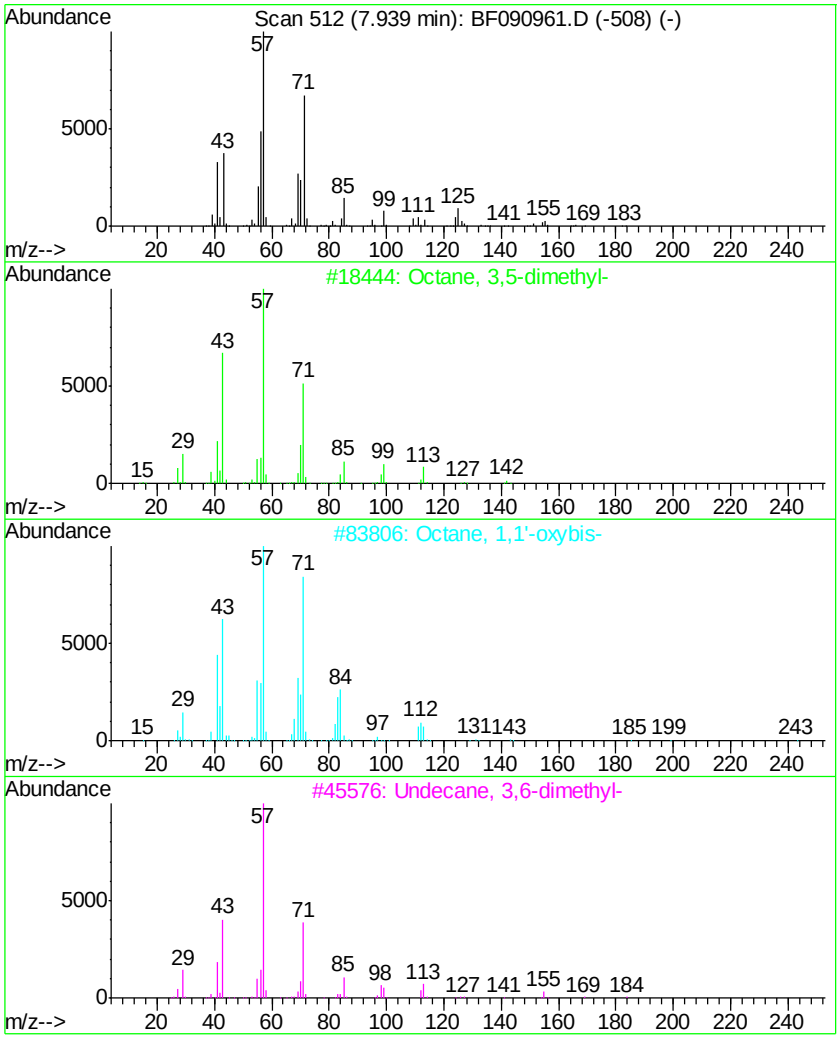
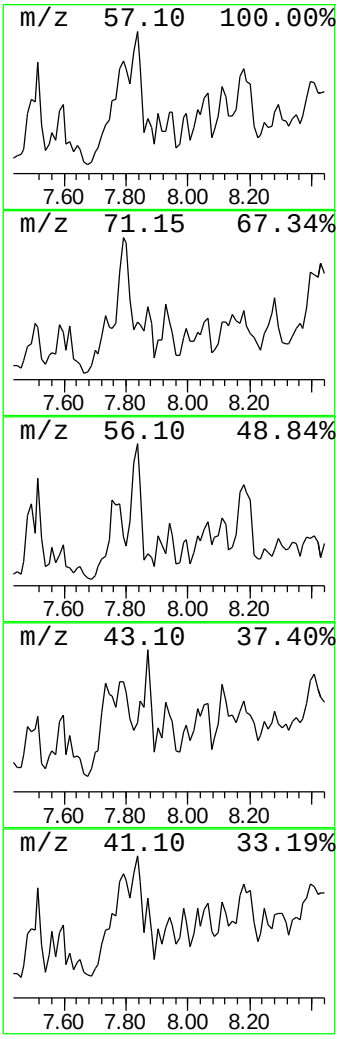
Peak Number 18 Octane, 3,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.94	46.25 ng	6877720	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	58
2	Octane, 1,1'-oxybis-	242	C16H34O	000629-82-3	50
3	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	47
4	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	47
5	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	46





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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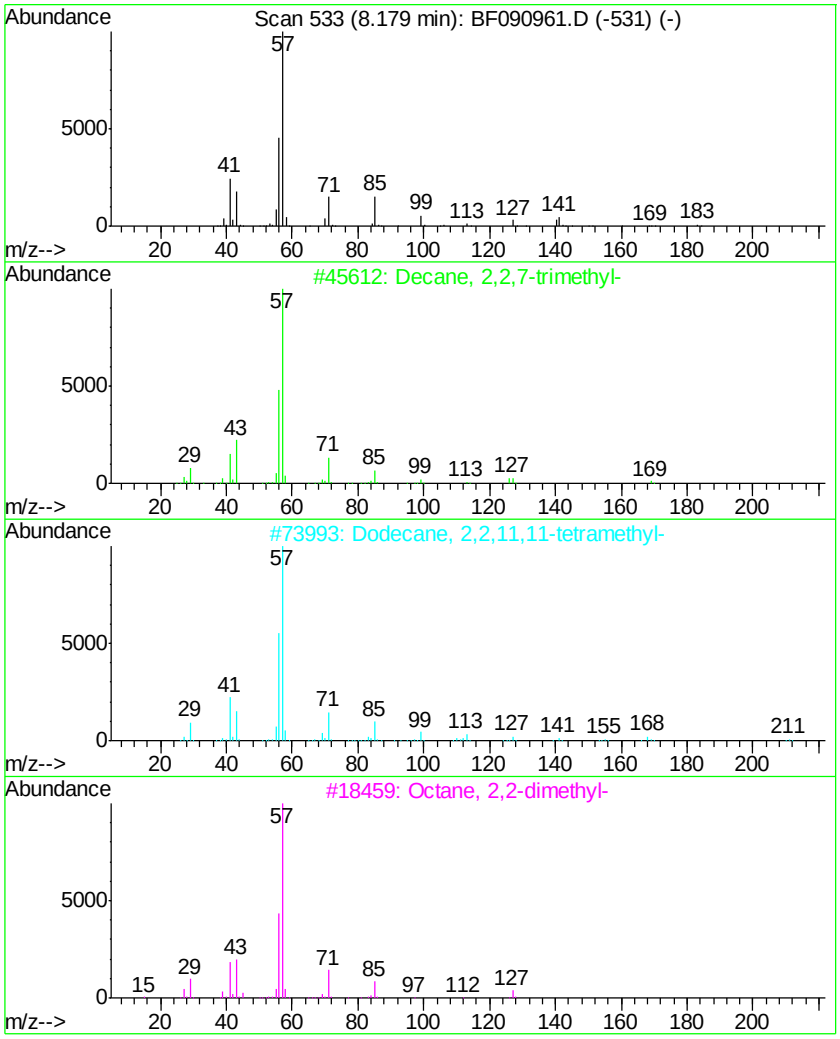
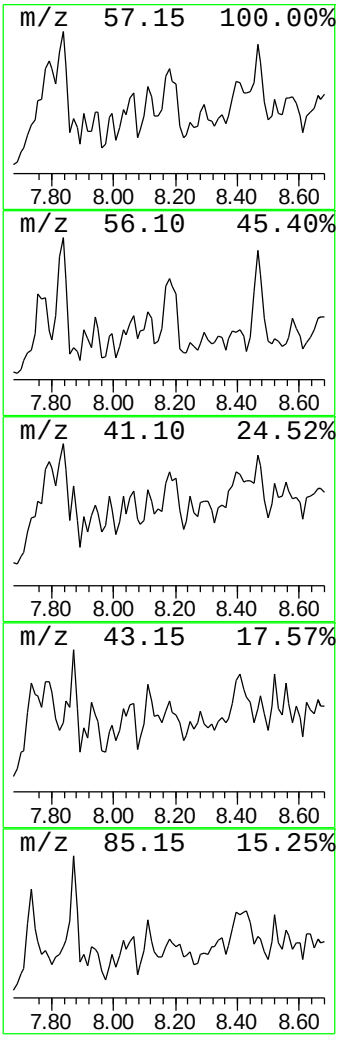
Peak Number 19 Decane, 2,2,7-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	37.15 ng	5525680	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,2,7-trimethyl-	184	C13H28	062237-99-4	78
2	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	78
3	Octane, 2,2-dimethyl-	142	C10H22	015869-87-1	72
4	Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	72
5	Decane, 2,2,6-trimethyl-	184	C13H28	062237-97-2	72





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

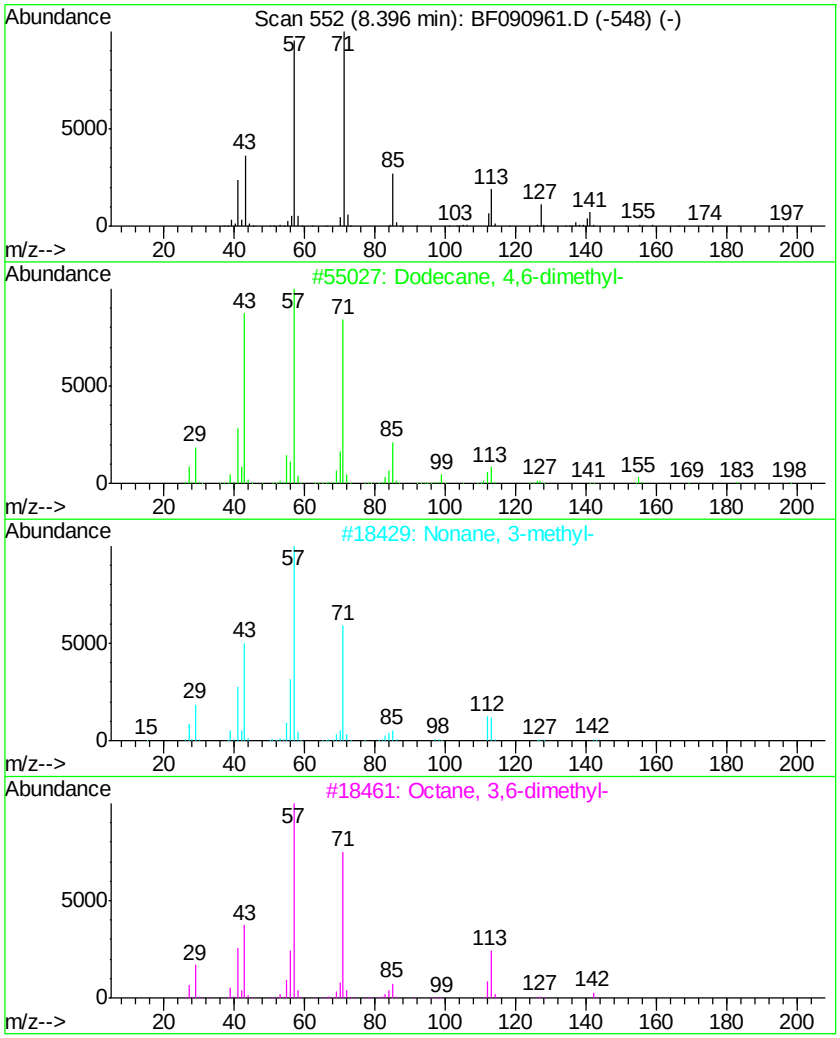
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

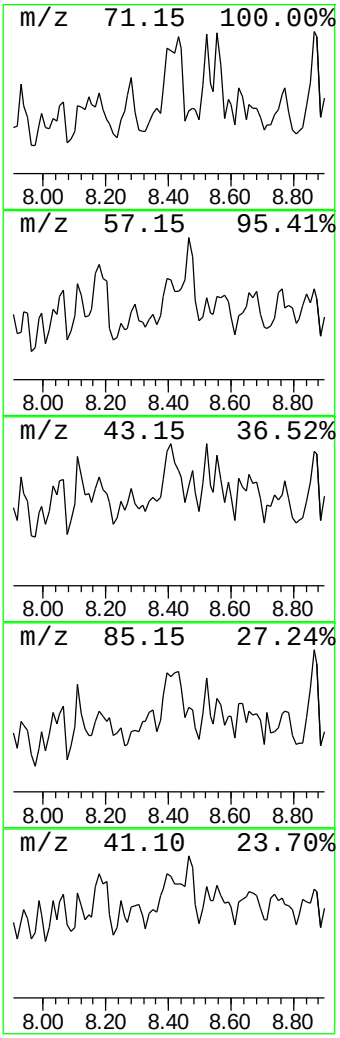
****

Peak Number 20 Dodecane, 4,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.40	27.53 ng	4094270	Naphthalene-d8	8.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	72
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	59
3	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	59
4	3,5-Dimethyl-4-octanone	156	C10H20O	007335-17-3	59
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	56





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110116\
Data File : BF090961.D
Acq On : 1 Nov 2016 19:59
Operator : UM/SJ
Sample : H5502-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-82-4.5-5.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.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
Heptane, 2,5,5-tr...	5.60	37.4	ng	6627960	1	6.74	3543120	20.0
Heptane, 2,3,6-tr...	5.80	63.8	ng	11295700	1	6.74	3543120	20.0
Octane, 2,5-dimet...	5.88	26.6	ng	4704120	1	6.74	3543120	20.0
Tetradecane, 2,2-...	5.92	31.6	ng	5589910	1	6.74	3543120	20.0
Octane, 2,3-dimet...	6.20	97.5	ng	17266900	1	6.74	3543120	20.0
Octane, 2,5,6-tri...	6.25	77.3	ng	13698900	1	6.74	3543120	20.0
Octane, 2,2,6-tri...	6.45	64.5	ng	11420600	1	6.74	3543120	20.0
Hexadecane	6.53	105.0	ng	18598600	1	6.74	3543120	20.0
Heptane, 2,2,4,6,...	6.84	35.7	ng	6321870	1	6.74	3543120	20.0
Undecane, 2,3-dim...	6.89	82.3	ng	14570400	1	6.74	3543120	20.0
Hexane, 2,2,3-tri...	7.04	76.8	ng	13611500	1	6.74	3543120	20.0
Octane, 2,6-dimet...	7.10	40.5	ng	7181680	1	6.74	3543120	20.0
Decane, 3,7-dimet...	7.20	58.8	ng	10412000	1	6.74	3543120	20.0
Heptane, 4-ethyl-...	7.49	36.6	ng	5445830	2	8.03	2974440	20.0
Tridecane, 7-methyl-	7.79	152.3	ng	22649200	2	8.03	2974440	20.0
Heptane, 2,2,4-tr...	7.84	27.5	ng	4083170	2	8.03	2974440	20.0
Octane, 3,5-dimet...	7.94	46.3	ng	6877720	2	8.03	2974440	20.0
Decane, 2,2,7-tri...	8.18	37.1	ng	5525680	2	8.03	2974440	20.0
Dodecane, 4,6-dim...	8.40	27.5	ng	4094270	2	8.03	2974440	20.0