LSC Area Percent Report

Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

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-BF111915.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	4.156	178	181	185	rBV	38262	56873	1.07%	0.124%
2	4.853	238	242	249	rVB	1443078	2006075	37.78%	4.378%
3	5.299	279	281	284	rBV	3262631	4227754	79.62%	9.226%
4	6.362	370	374	376	rBV2	3605811	5310087	100.00%	11.588%
5	6.476	381	384	386	rBV	4583694	4679623	88.13%	10.213%
6	6.705	401	404	406	rBV	897007	1002268	18.87%	2.187%
7	6.853	415	417	420	rBV	2714473	3560292	67.05%	7.770%
8	7.265	450	453	456	rBV	2447012	2371791	44.67%	5.176%
9	7.379	459	463	467	rBV3	35327	57126	1.08%	0.125%
10	7.985	514	516	522	rBV2	1058495	1347093	25.37%	2.940%
11	8.282	537	542	544	rVB6	27962	73984	1.39%	0.161%
12	8.385	549	551	553	rVB	52028	56499	1.06%	0.123%
13	8.430	553	555	560	rBV2	146230	267117	5.03%	0.583%
14	8.556	563	566	568	rBV2	74114	97170	1.83%	0.212%
15	8.705	576	579	581	rVB	539531	493304	9.29%	1.077%
16	8.796	585	587	590	rBV	178783	235213	4.43%	0.513%
17	8.910	593	597	599	rBV4	30419	70392	1.33%	0.154%
18	8.990	602	604	605	rBV	112818	95648	1.80%	0.209%
19	9.036	605	608	609	rBV	258842	274133	5.16%	0.598%
20	9.070	609	611	614	rVB	4846002	4532873	85.36%	9.892%
21	9.150	614	618	622	rBV4	120747	309159	5.82%	0.675%
22	9.333	631	634	637	rBV2	107608	217703	4.10%	0.475%
23	9.402	638	640	643	rVV	171113	293485	5.53%	0.640%
24	9.470	643	646	649	rVV	992957	1488090	28.02%	3.248%
25	9.573	653	655	656	rVV2	72602	86796	1.63%	0.189%
26	9.619	656	659	660	rVV3	64419	142590	2.69%	0.311%
27	9.665	660	663	664	rVV	115436	174352	3.28%	0.380%
28	9.699	664	666	667	rVV	67311	77432	1.46%	0.169%
29	9.745	667	670	672	rVV	1474575	1473226	27.74%	3.215%
30	9.791	672	674	677	rVB4	51835	59594	1.12%	0.130%
31	9.928	683	686	687	rBV3	61622	125601	2.37%	0.274%
32	9.951	687	688	690	rVV	94658	112104	2.11%	0.245%
33	10.019	692	694	696	rVB	124331	113861	2.14%	0.248%
34	10.065	696	698	699	rBV2	47709	69420	1.31%	0.151%

LSC Area Percent Report

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Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

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-BF111915.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.122	701	703	704	rBV	42910	71340	1.34%	0.156%
36	10.156	704	706	708	rBV3	42149	86782	1.63%	0.189%
37	10.191	708	709	711	rVB	66614	64826	1.22%	0.141%
38	10.305	717	719	722	rVB3	50886	69867	1.32%	0.152%
39	10.419	726	729	730	rBV	238067	280137	5.28%	0.611%
40	10.533	736	739	740	rBV2	1195513	1639375	30.87%	3.578%
41	10.568	740	742	745	rVB4	46723	79680	1.50%	0.174%
42	10.682	748	752	754	rVB	546808	629176	11.85%	1.373%
43	11.116	788	790	791	rBV	92497	94980	1.79%	0.207%
44	11.139	791	792	794	rVB	182670	225045	4.24%	0.491%
45	11.219	797	799	801	rBV	1242483	1078526	20.31%	2.354%
46	11.539	825	827	830	rVB	88392	92517	1.74%	0.202%
47	11.836	851	853	858	rVB4	59880	137088	2.58%	0.299%
48	12.019	867	869	873	rVB5	54172	112992	2.13%	0.247%
49	12.431	903	905	907	rVB	90565	91091	1.72%	0.199%
50	12.648	922	924	926	rVB	72756	95777	1.80%	0.209%
51	12.808	936	938	941	rBV	3164915	3419072	64.39%	7.462%
52	13.848	1027	1029	1032	rBV	897592	1091988	20.56%	2.383%
53	15.231	1148	1150	1153	rBV	517012	783710	14.76%	1.710%
54	15.277	1153	1154	1160	rVB6	74685	119624	2.25%	0.261%

Sum of corrected areas: 45822321

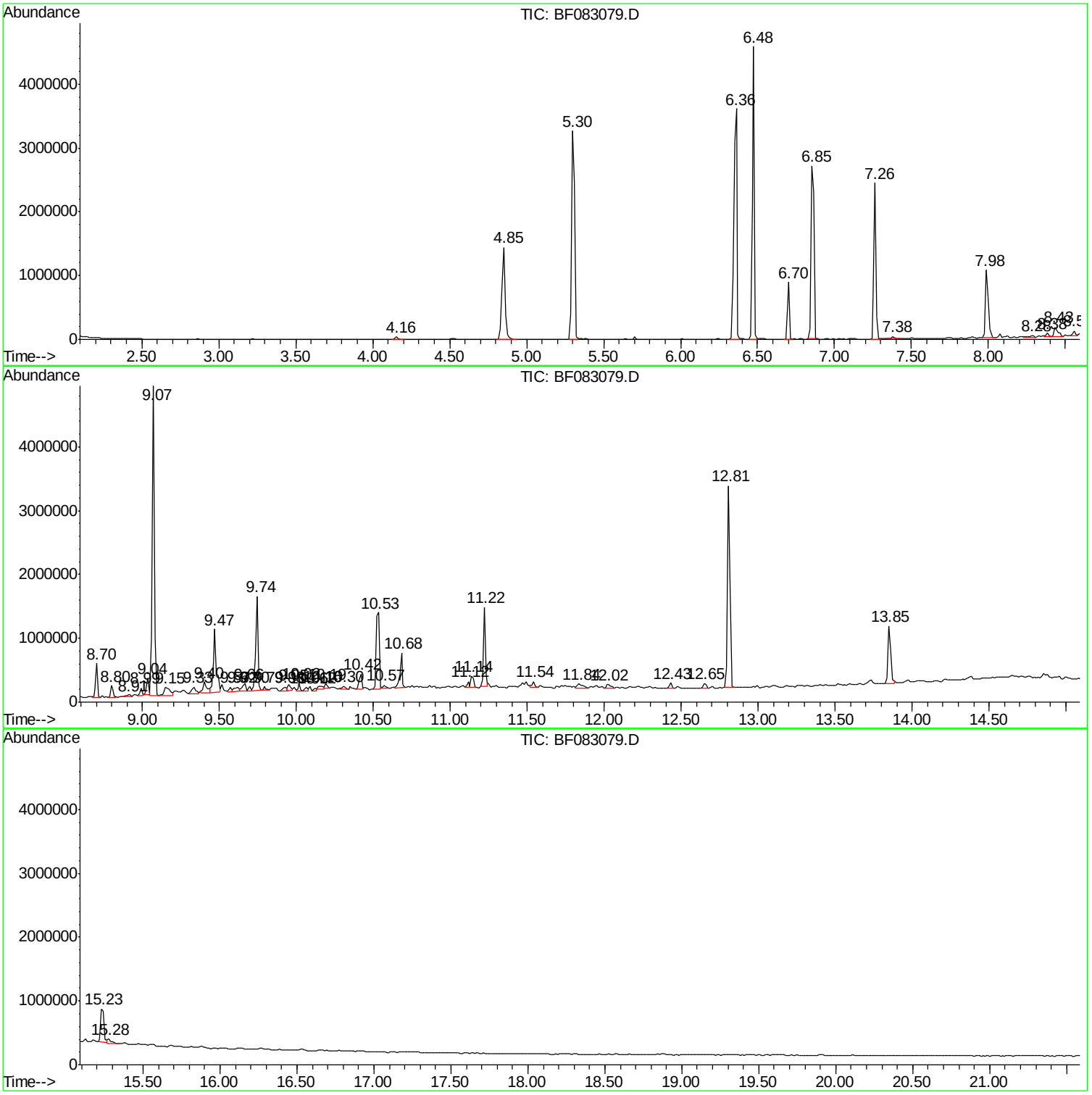
LSC Report - Integrated Chromatogram

Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

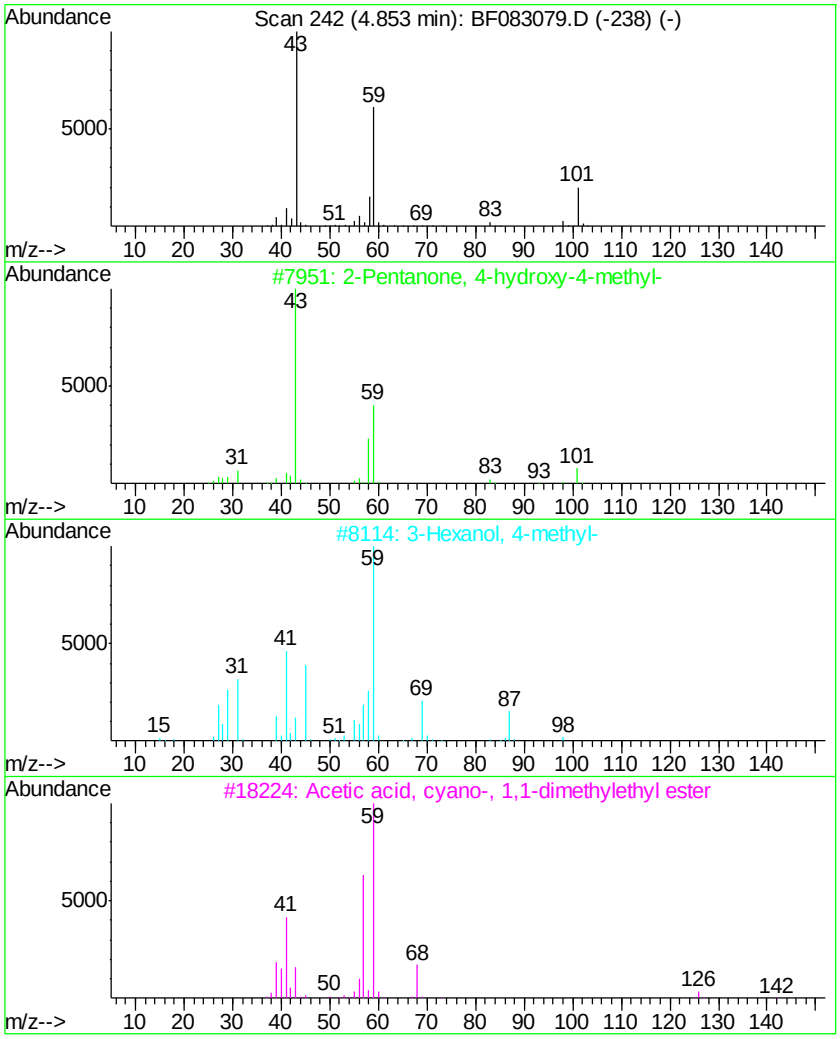
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

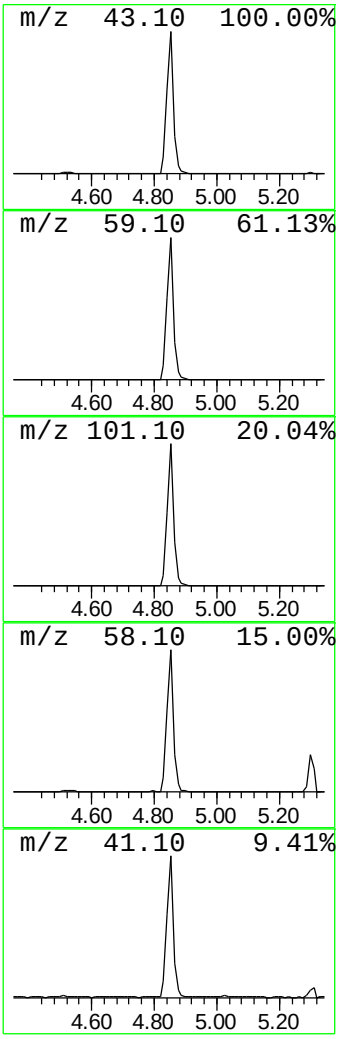
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.85	40.03 ng	2006080	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





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Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

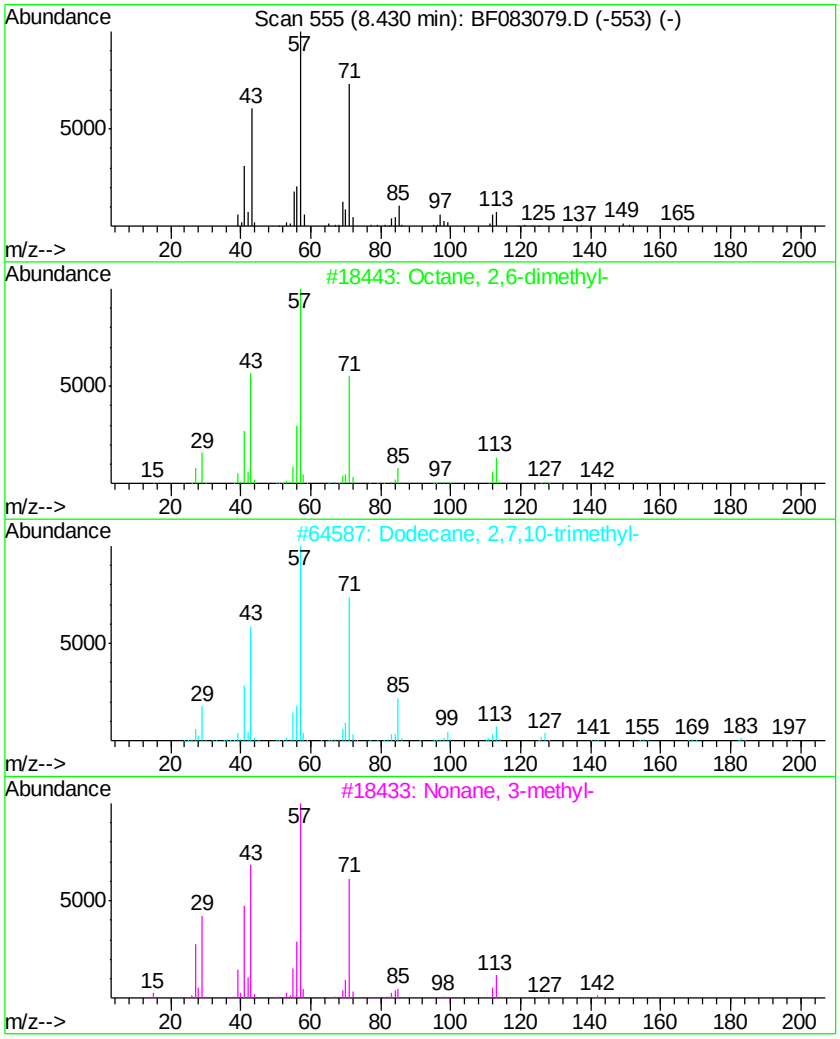
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

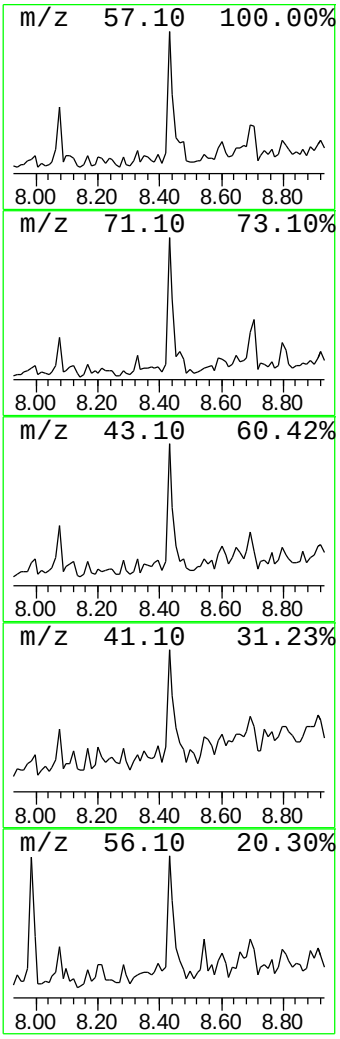
****

Peak Number 4 Octane, 2,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.43	3.97 ng	267117	Naphthalene-d8	7.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	78
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	72
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	64
4	Octane, 2,3,7-trimethyl-	156	C11H24	062016-34-6	64
5	Octacosane	394	C28H58	000630-02-4	59





Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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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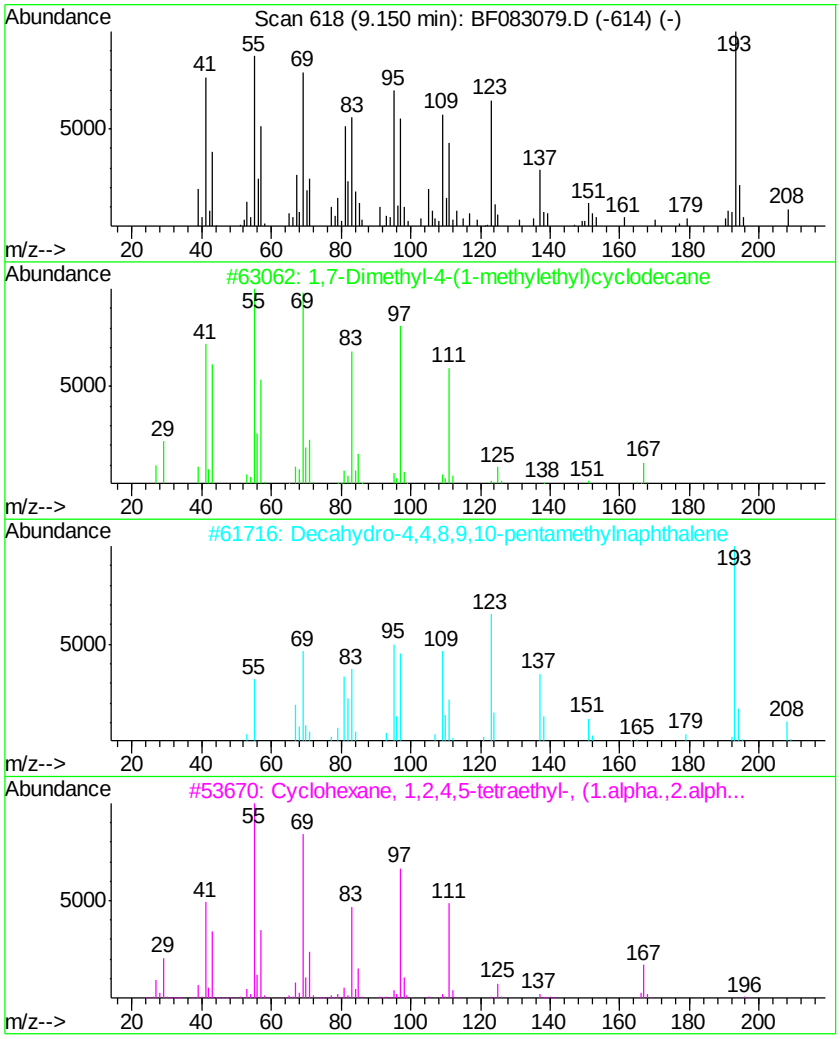
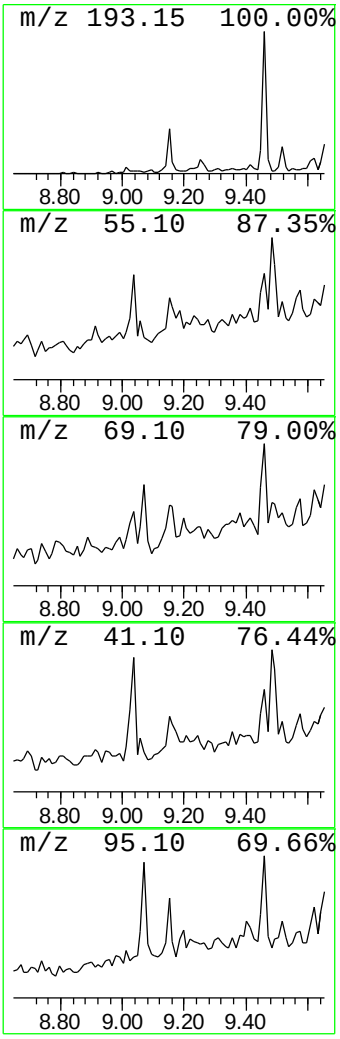
Peak Number 6 unknown9.15 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.15	4.20 ng	309159	Acenaphthene-d10	9.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,7-Dimethyl-4-(1-methylethyl)cy...	210	C15H30	000645-10-3	38
2	Decahydro-4,4,8,9,10-pentamethyl...	208	C15H28	080655-44-3	38
3	Cyclohexane, 1,2,4,5-tetraethyl-...	196	C14H28	061142-24-3	38
4	Neopentylidenecyclohexane	152	C11H20	039546-80-0	30
5	Cyclohexane, 2,4-diisopropyl-1,1...	196	C14H28	1000149-60-5	27





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Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

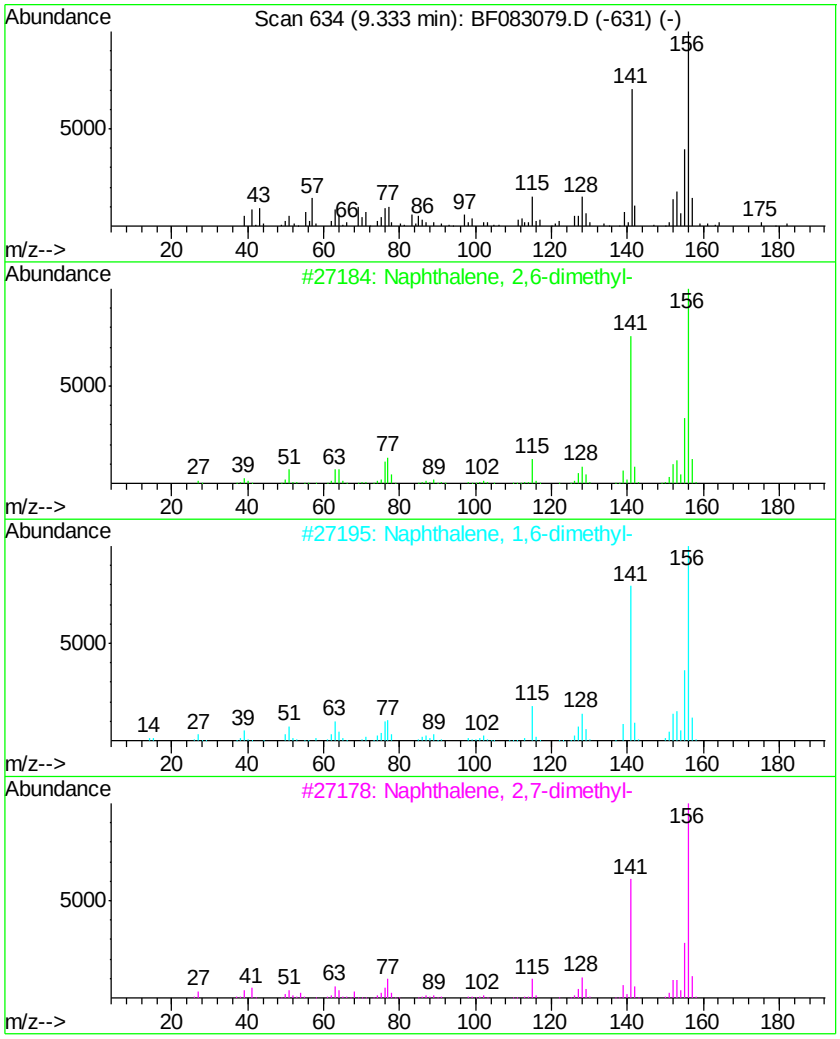
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

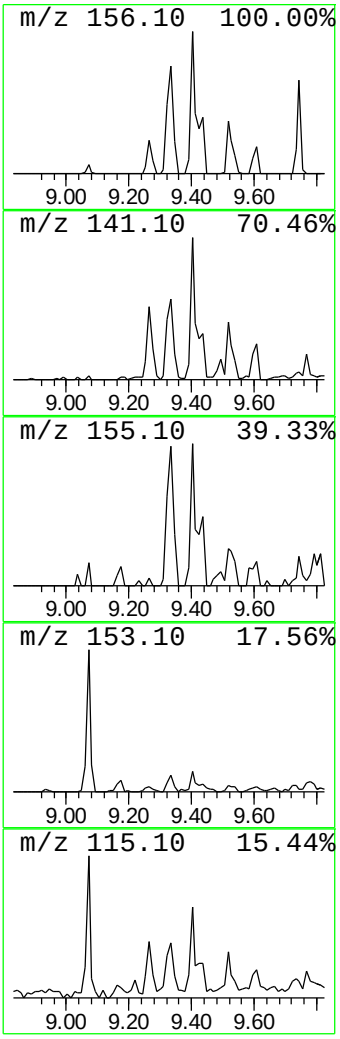
****

Peak Number 7 Naphthalene, 2,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.33	2.96 ng	217703	Acenaphthene-d10	9.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95





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Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

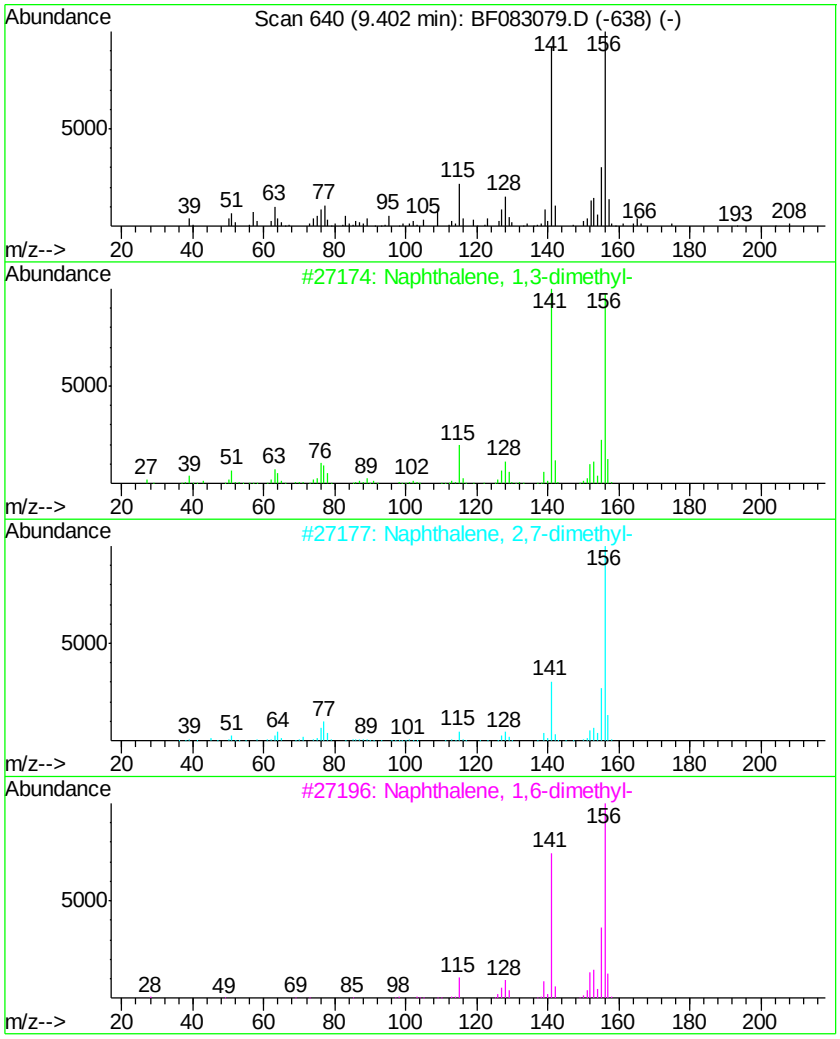
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

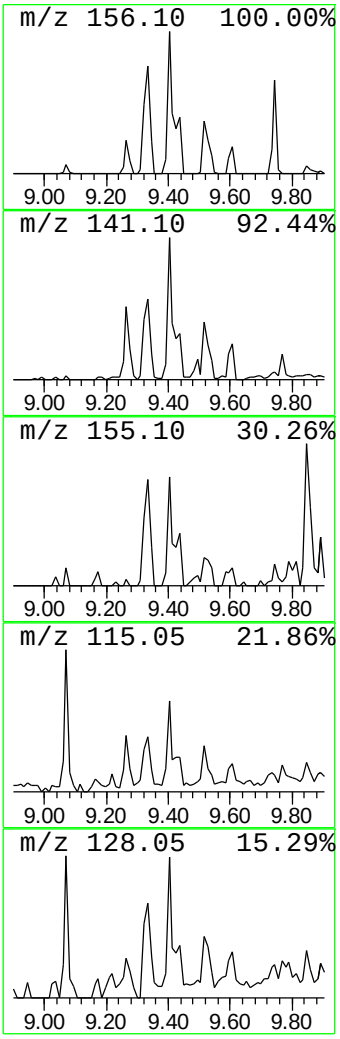
****

Peak Number 8 Naphthalene, 1,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.40	3.98 ng	293485	Acenaphthene-d10	9.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95





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Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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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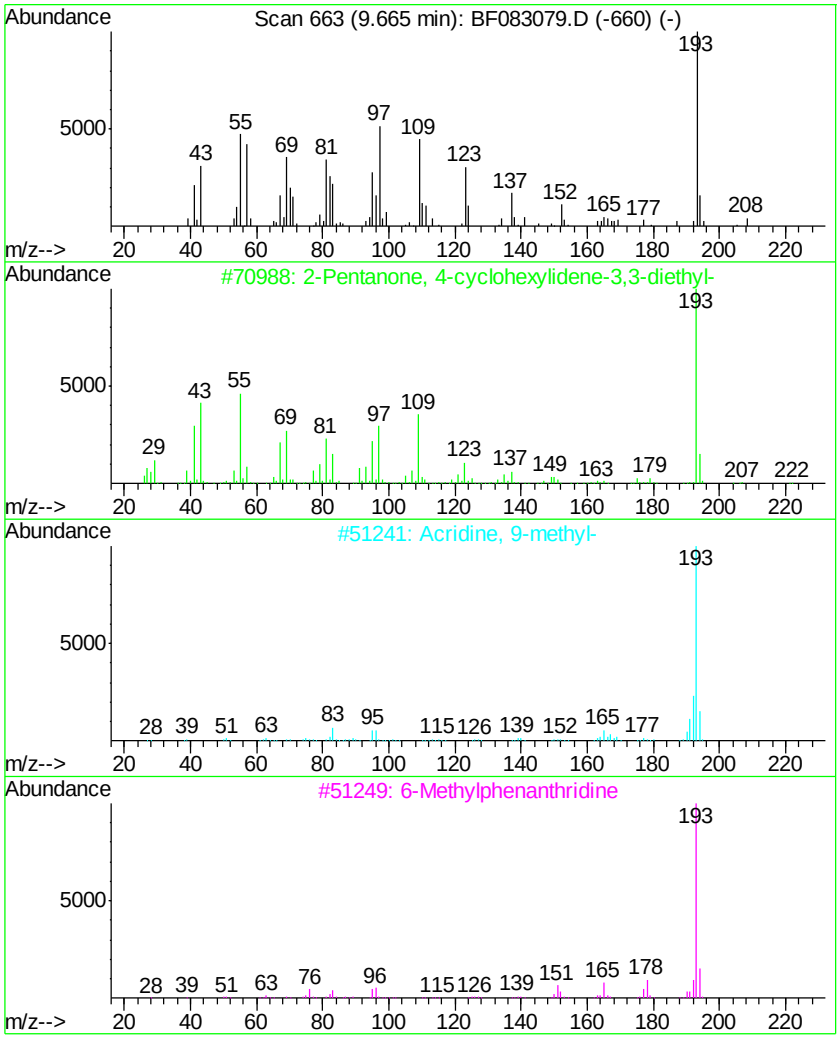
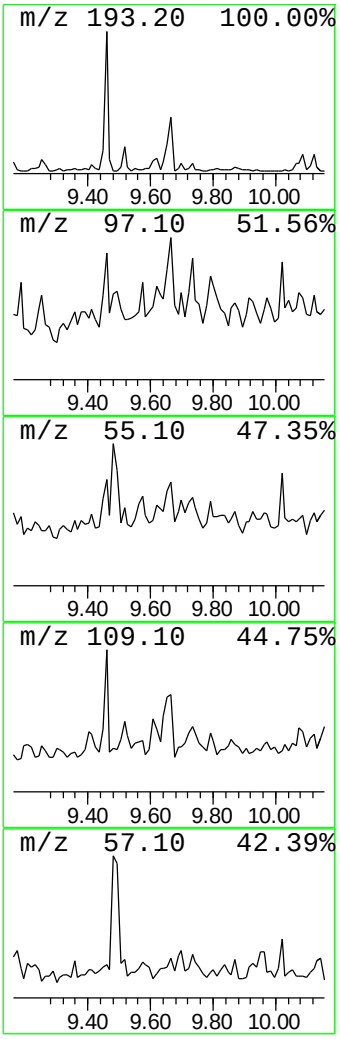
Peak Number 9 2-Pentanone, 4-cyclohexylid... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.66	2.37 ng	174352	Acenaphthene-d10	9.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-cyclohexylidene-3...	222	C15H26O	313253-65-5	50
2	Acridine, 9-methyl-	193	C14H11N	000611-64-3	35
3	6-Methylphenanthridine	193	C14H11N	003955-65-5	27
4	Decahydro-4,4,8,9,10-pentamethyl...	208	C15H28	080655-44-3	27
5	[1,1'-Biphenyl]-4-acetonitrile	193	C14H11N	031603-77-7	27





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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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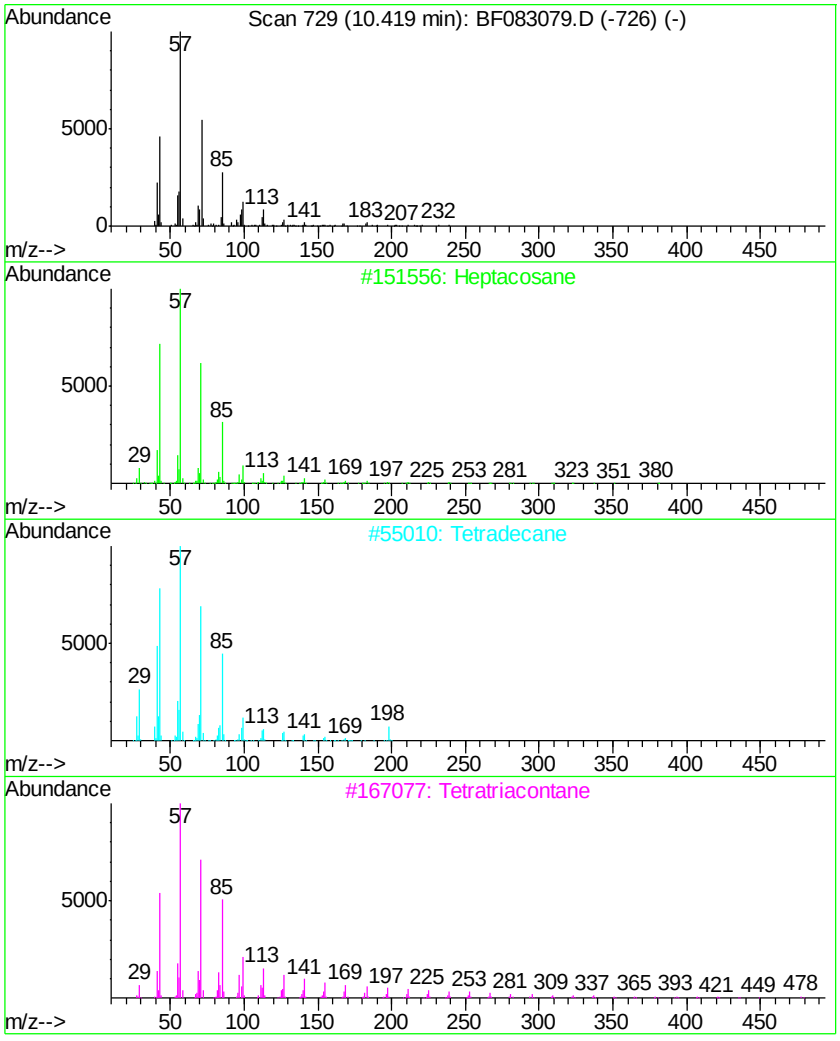
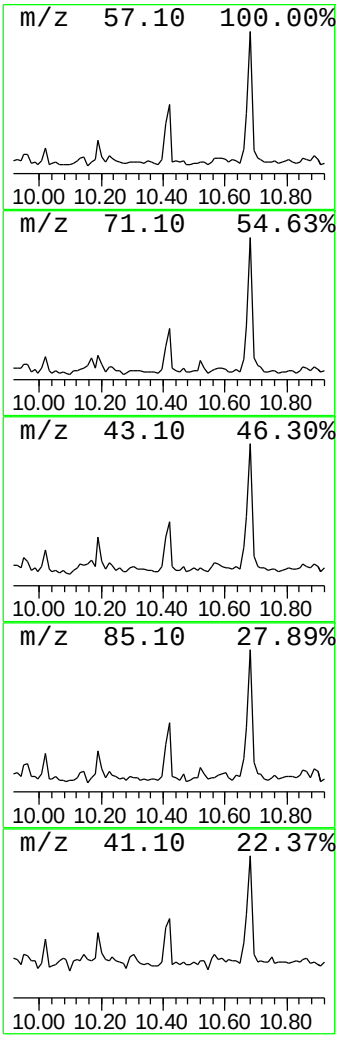
Peak Number 10 Heptacosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.42	3.80 ng	280137	Acenaphthene-d10	9.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	86
2	Tetradecane	198	C14H30	000629-59-4	80
3	Tetratriacontane	479	C34H70	014167-59-0	78
4	Undecane, 3,9-dimethyl-	184	C13H28	017301-31-4	72
5	Hexadecane	226	C16H34	000544-76-3	72





Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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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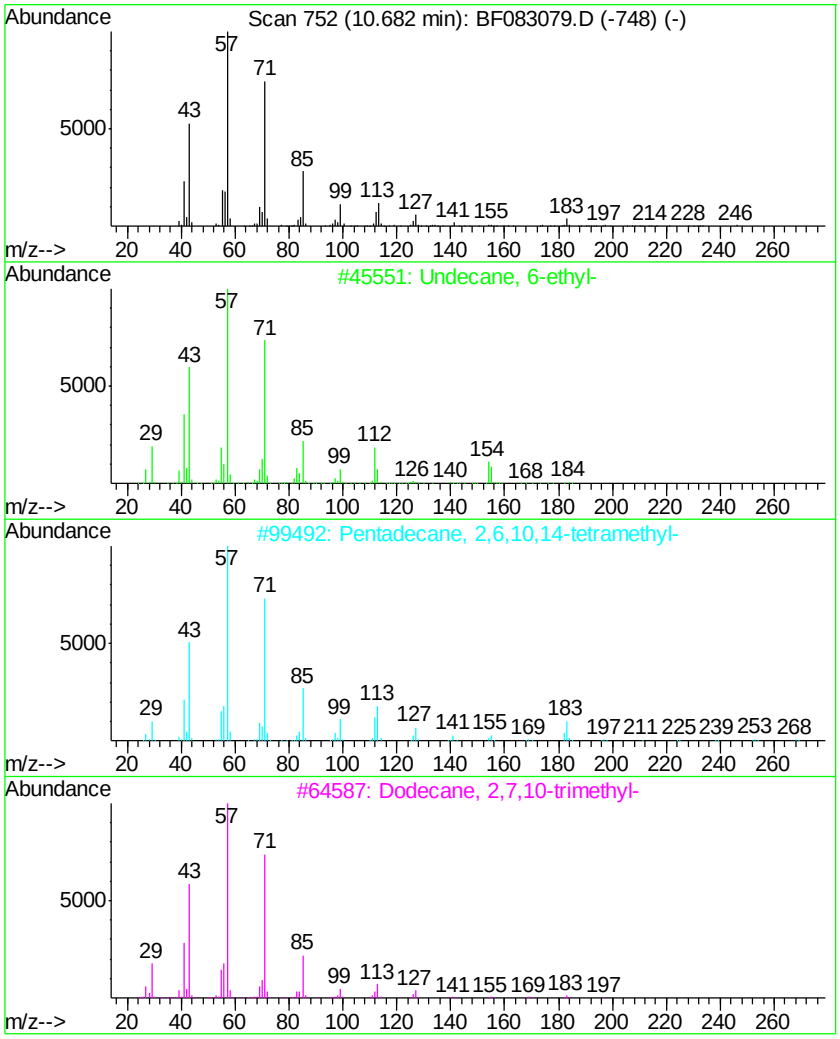
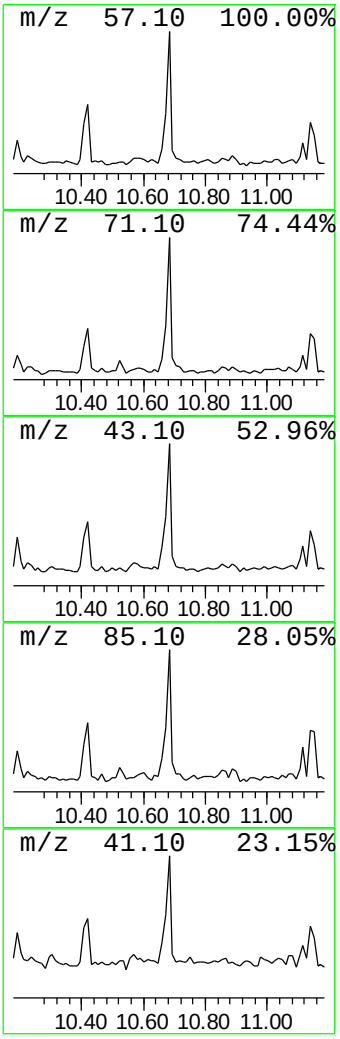
Peak Number 11 Undecane, 6-ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	11.67 ng	629176	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 6-ethyl-	184	C13H28	017312-60-6	90
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	90
3	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	80
4	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	78
5	Nonane, 2-methyl-5-propyl-	184	C13H28	031081-17-1	72





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Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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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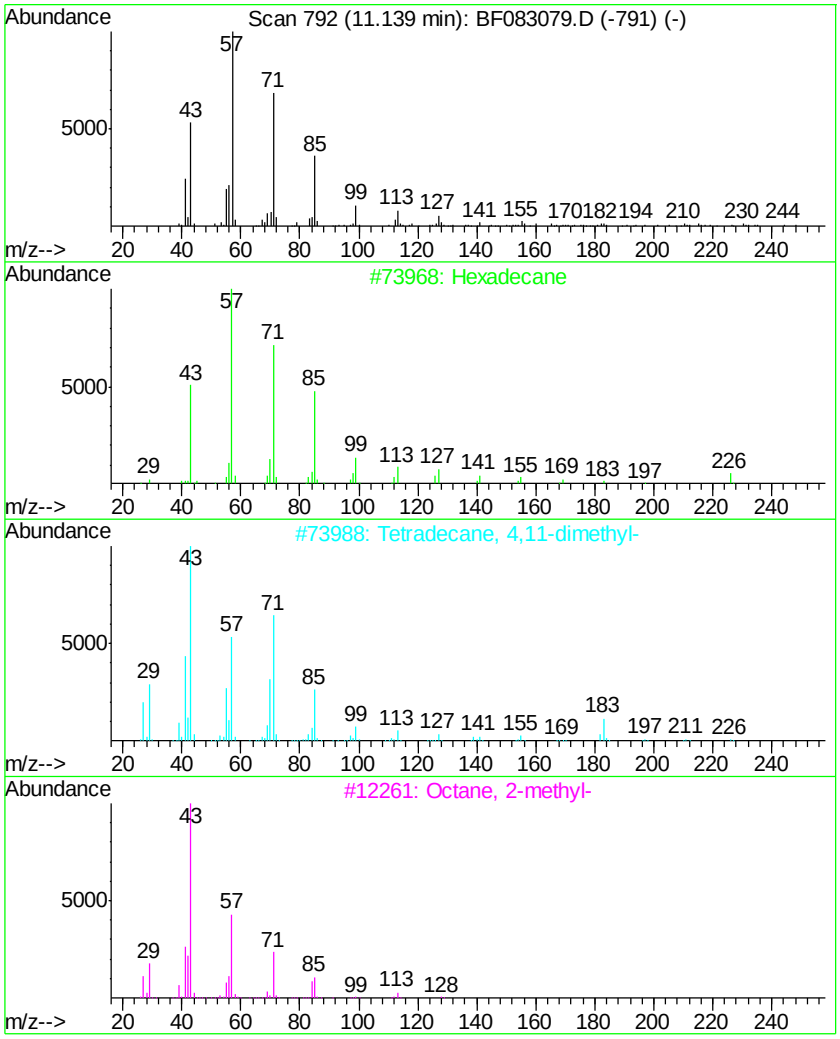
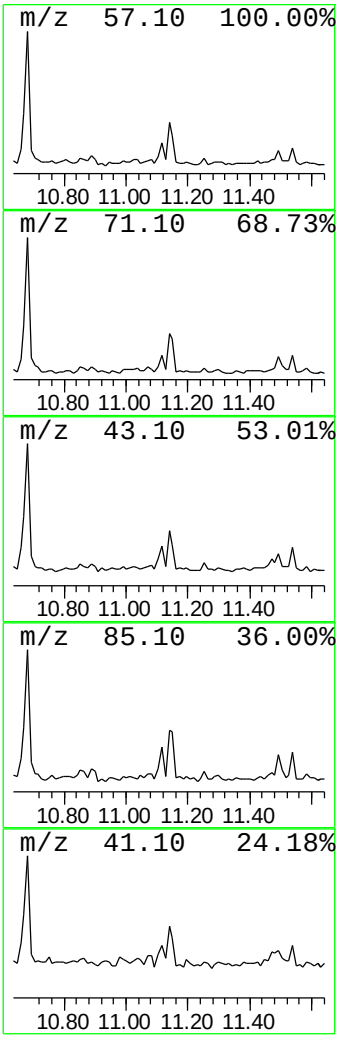
Peak Number 12 Hexadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	4.17 ng	225045	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	72
2	Tetradecane, 4,11-dimethyl-	226	C16H34	055045-12-0	64
3	Octane, 2-methyl-	128	C9H20	003221-61-2	64
4	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	64
5	Tetradecane, 6,9-dimethyl-	226	C16H34	055045-13-1	64





Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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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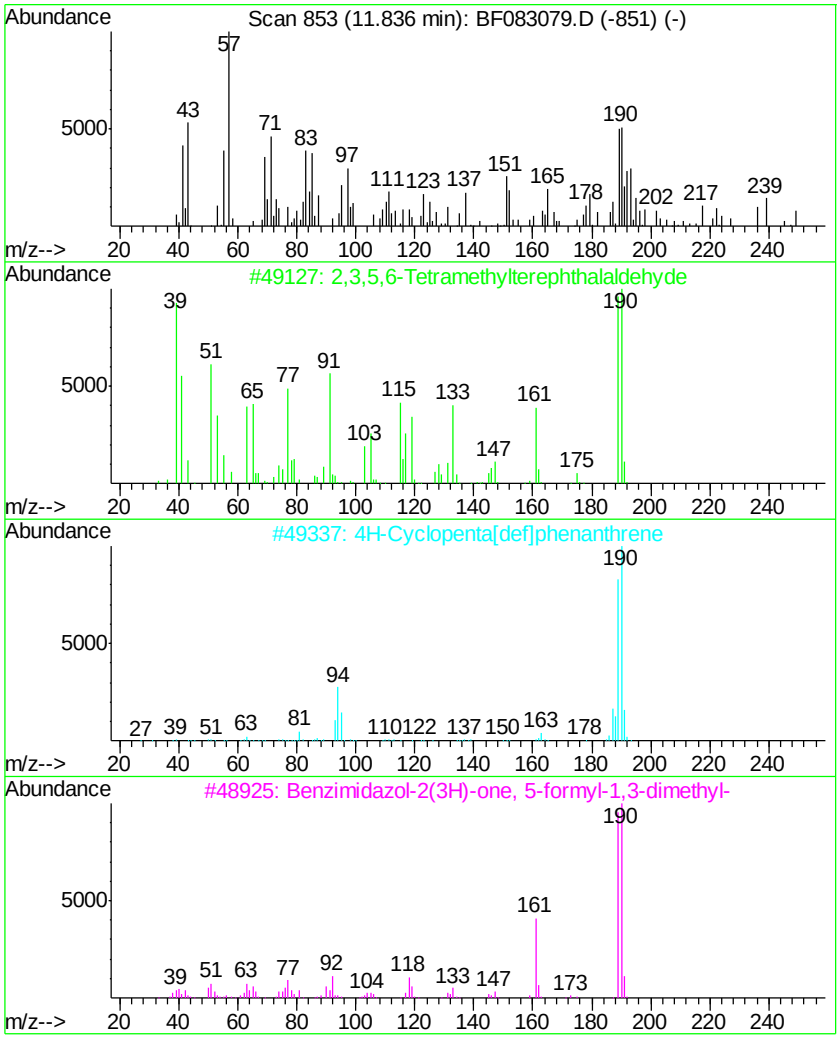
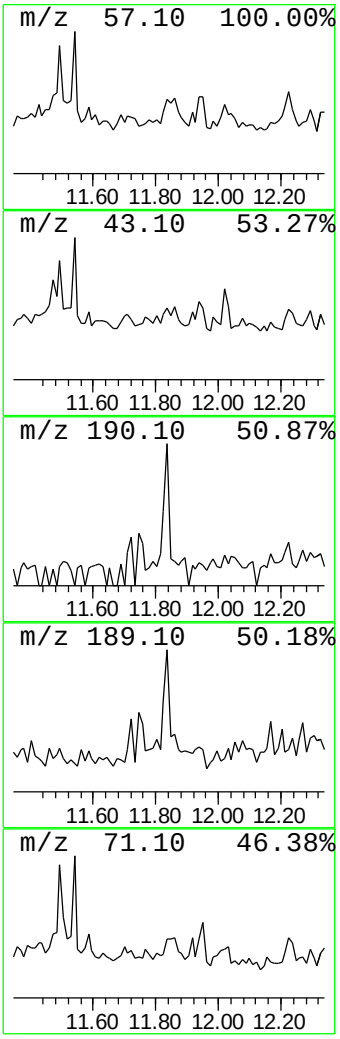
Peak Number 13 unknown11.84 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	2.54 ng	137088	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	25
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	16
3	Benzimidazol-2(3H)-one, 5-formyl...	190	C10H10N2O2	055241-49-1	12
4	Cyclopenta[c]pyran-4-carboxylic ...	190	C11H10O3	063785-74-0	12
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	10





Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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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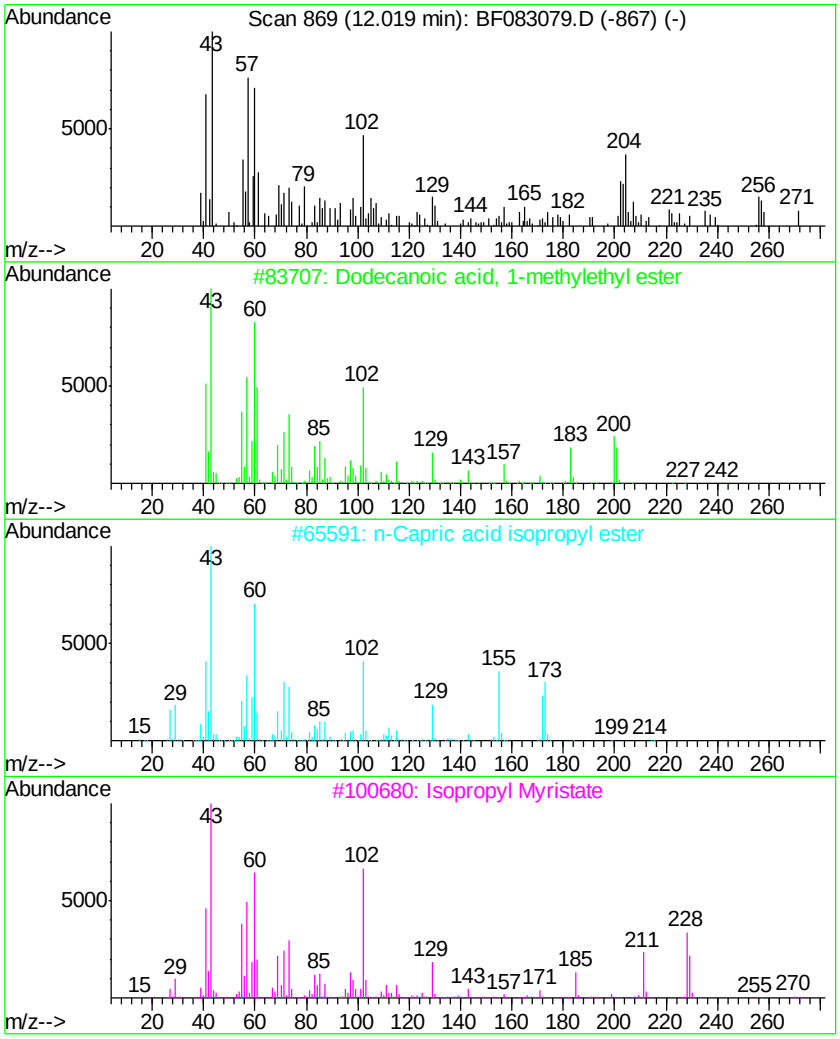
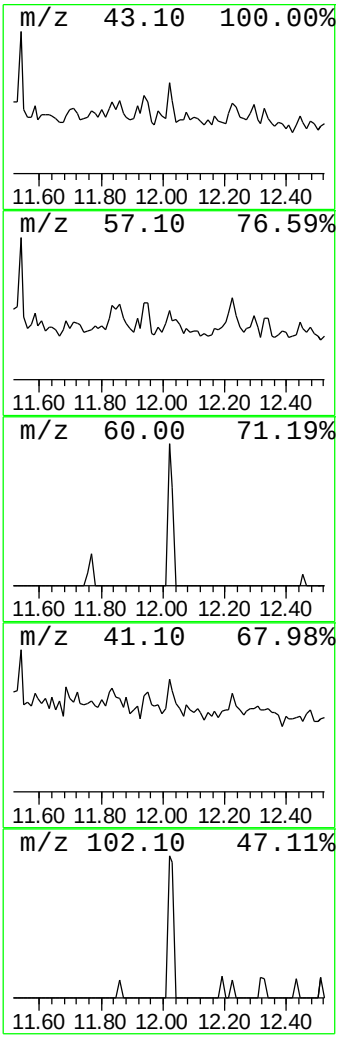
Peak Number 14 unknown12.02 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	2.10 ng	112992	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecanoic acid, 1-methylethyl e...	242	C15H30O2	010233-13-3	43
2	n-Capric acid isopropyl ester	214	C13H26O2	002311-59-3	38
3	Isopropyl Myristate	270	C17H34O2	000110-27-0	37
4	Nonanoic acid, 1-methylethyl ester	200	C12H24O2	028267-32-5	32
5	1,3,4-Thiadiazol-2-amine, 5-ethyl-	129	C4H7N3S	014068-53-2	22





Tentatively Identified Compound (LSC) summary

Data Path : V:\HPCHEM1\BNA_F\DATA\BF112015\
Data File : BF083079.D
Acq On : 20 Nov 2015 13:56
Operator : UM/IZ
Sample : G4452-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RW-20151116-03

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111915.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
2-Pentanone, 4-hy...	4.85	40.0	ng	2006080	1	6.70	1002270	20.0
Octane, 2,6-dimet...	8.43	4.0	ng	267117	2	7.98	1347090	20.0
unknown9.15	9.15	4.2	ng	309159	3	9.74	1473230	20.0
Naphthalene, 2,6-...	9.33	3.0	ng	217703	3	9.74	1473230	20.0
Naphthalene, 1,3-...	9.40	4.0	ng	293485	3	9.74	1473230	20.0
2-Pentanone, 4-cy...	9.66	2.4	ng	174352	3	9.74	1473230	20.0
Heptacosane	10.42	3.8	ng	280137	3	9.74	1473230	20.0
Undecane, 6-ethyl-	10.68	11.7	ng	629176	4	11.22	1078530	20.0
Hexadecane	11.14	4.2	ng	225045	4	11.22	1078530	20.0
unknown11.84	11.84	2.5	ng	137088	4	11.22	1078530	20.0
unknown12.02	12.02	2.1	ng	112992	4	11.22	1078530	20.0