

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
 Data File : BF079397.D
 Acq On : 21 May 2015 00:16
 Operator : TP/IZ
 Sample : G2303-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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	1.736	46	48	84	rVB	2199062	4014743	36.89%	1.568%
2	6.913	499	501	503	rVB	1238649	1272801	11.69%	0.497%
3	7.245	527	530	532	rBV	6526266	7726222	70.98%	3.017%
4	7.279	532	533	539	rVB4	526730	1080866	9.93%	0.422%
5	7.405	539	544	546	rBV3	486816	920246	8.45%	0.359%
6	7.439	546	547	550	rVB2	765998	1247093	11.46%	0.487%
7	7.496	550	552	554	rBV	1767382	1771525	16.28%	0.692%
8	7.588	557	560	564	rVB3	698651	1567976	14.41%	0.612%
9	7.759	572	575	577	rBV2	1147759	1597219	14.67%	0.624%
10	7.862	582	584	586	rBV	3052024	2958900	27.18%	1.155%
11	8.056	598	601	602	rVB	797063	989450	9.09%	0.386%
12	8.079	602	603	607	rVB	1636825	2122386	19.50%	0.829%
13	8.216	611	615	618	rBV4	1032402	2372404	21.80%	0.926%
14	8.273	618	620	622	rVB2	1368041	1343011	12.34%	0.524%
15	8.353	625	627	629	rVB2	2444981	2823884	25.94%	1.103%
16	8.399	629	631	634	rVB3	1592698	2286505	21.01%	0.893%
17	8.456	634	636	639	rBV3	1350545	2989882	27.47%	1.167%
18	8.536	639	643	649	rVB2	385639	1061769	9.75%	0.415%
19	8.696	649	657	659	rBV3	4082254	9542635	87.67%	3.726%
20	8.742	659	661	664	rVB	916559	1132981	10.41%	0.442%
21	8.788	664	665	669	rVB2	1489083	1885695	17.32%	0.736%
22	8.913	674	676	679	rBV3	1042793	1727183	15.87%	0.674%
23	9.028	683	686	687	rBV2	831984	1010257	9.28%	0.394%
24	9.096	690	692	694	rVB2	804959	1380180	12.68%	0.539%
25	9.142	694	696	697	rBV	1205756	1699312	15.61%	0.663%
26	9.233	702	704	708	rBV3	2036475	3140818	28.86%	1.226%
27	9.302	708	710	712	rBV	2240680	2500878	22.98%	0.976%
28	9.359	712	715	718	rVB4	469767	1180711	10.85%	0.461%
29	9.451	721	723	725	rVV	4171315	4353795	40.00%	1.700%
30	9.496	725	727	730	rVB2	1424589	1401757	12.88%	0.547%
31	9.553	730	732	735	rVB3	1905417	3318031	30.48%	1.296%
32	9.679	739	743	744	rBV2	1914016	2845664	26.14%	1.111%
33	9.702	744	745	747	rVV2	2042166	1929284	17.73%	0.753%
34	9.736	747	748	750	rVB2	774687	991209	9.11%	0.387%

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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 >
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35	9.816	750	755	757	rBV5	1241178	3878144	35.63%	1.514%
36	9.862	757	759	761	rVB2	1031845	1515880	13.93%	0.592%
37	9.908	761	763	764	rVB	1114520	1465307	13.46%	0.572%
38	9.988	764	770	772	rBV6	1992204	4817081	44.26%	1.881%
39	10.159	782	785	787	rVV	4904978	5699948	52.37%	2.226%
40	10.205	787	789	790	rVV	1764726	1808811	16.62%	0.706%
41	10.251	790	793	796	rVB2	1016603	1749731	16.08%	0.683%
42	10.342	799	801	803	rBV2	2376499	4084998	37.53%	1.595%
43	10.434	806	809	810	rVV2	2920033	3961362	36.39%	1.547%
44	10.468	810	812	814	rVV3	2806937	4149623	38.12%	1.620%
45	10.548	816	819	820	rVV3	2563115	4747936	43.62%	1.854%
46	10.628	824	826	827	rBV	864959	1026086	9.43%	0.401%
47	10.674	828	830	832	rVB3	1184865	1272625	11.69%	0.497%
48	10.822	840	843	844	rBV	5264200	6221722	57.16%	2.429%
49	10.845	844	845	847	rVB2	1082014	1059790	9.74%	0.414%
50	10.994	856	858	860	rVB	1554081	2636277	24.22%	1.029%
51	11.108	863	868	870	rBV	2686268	5749233	52.82%	2.245%
52	11.165	872	873	875	rVV2	1861247	2285100	20.99%	0.892%
53	11.211	875	877	879	rVV2	2303664	2798269	25.71%	1.093%
54	11.257	879	881	882	rVV2	1978181	2595008	23.84%	1.013%
55	11.291	882	884	885	rVB	1438470	1842195	16.93%	0.719%
56	11.359	885	890	894	rBV7	1362511	4723716	43.40%	1.844%
57	11.451	895	898	899	rVV	4318976	6588671	60.53%	2.573%
58	11.497	899	902	903	rVB3	647375	1146170	10.53%	0.448%
59	11.519	903	904	906	rVB2	1280398	1404686	12.91%	0.548%
60	11.577	906	909	910	rBV2	1155412	2329490	21.40%	0.910%
61	11.611	910	912	913	rVV2	835761	1096994	10.08%	0.428%
62	11.714	917	921	925	rVB2	3194921	5979625	54.94%	2.335%
63	11.817	928	930	931	rBV	1546741	1800605	16.54%	0.703%
64	11.954	940	942	944	rBV2	630829	959680	8.82%	0.375%
65	11.988	944	945	947	rVV	623573	893558	8.21%	0.349%
66	12.034	947	949	953	rVV	4680888	10884416	100.00%	4.250%
67	12.091	953	954	957	rVB3	690146	971304	8.92%	0.379%
68	12.251	966	968	972	rBV3	1154410	3723586	34.21%	1.454%
69	12.308	972	973	975	rVB2	1424823	1340135	12.31%	0.523%
70	12.354	975	977	978	rBV	952757	1167284	10.72%	0.456%
71	12.388	978	980	982	rBV3	966739	1789910	16.44%	0.699%

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72	12.434	982	984	985	rVB	1103276	1047704	9.63%	0.409%
73	12.594	995	998	999	rBV	4549394	5284983	48.56%	2.064%
74	12.628	999	1001	1004	rVB	3316370	3917743	35.99%	1.530%
75	12.720	1007	1009	1010	rVB	943657	999390	9.18%	0.390%
76	12.765	1010	1013	1015	rBV4	641292	1034431	9.50%	0.404%
77	12.811	1015	1017	1018	rBV2	630653	974294	8.95%	0.380%
78	13.062	1037	1039	1040	rVB	810065	1066969	9.80%	0.417%
79	13.120	1040	1044	1047	rBV	3931405	6237225	57.30%	2.435%
80	13.245	1053	1055	1058	rVB	804687	990818	9.10%	0.387%
81	13.314	1059	1061	1063	rBV2	1421491	2356116	21.65%	0.920%
82	13.348	1063	1064	1068	rVB	1569554	1636730	15.04%	0.639%
83	13.440	1071	1072	1074	rVV2	992480	1415445	13.00%	0.553%
84	13.485	1074	1076	1078	rVB2	799041	1019424	9.37%	0.398%
85	13.634	1086	1089	1091	rVB	4149448	4813125	44.22%	1.879%
86	13.702	1091	1095	1100	rVB6	599530	1672091	15.36%	0.653%
87	13.817	1103	1105	1108	rBV3	451727	883550	8.12%	0.345%
88	14.000	1117	1121	1123	rBV2	1349906	2547896	23.41%	0.995%
89	14.114	1128	1131	1134	rVB2	3871630	6495110	59.67%	2.536%
90	14.240	1139	1142	1144	rBV	601085	973457	8.94%	0.380%
91	14.308	1144	1148	1150	rVB5	387825	1100560	10.11%	0.430%
92	14.411	1155	1157	1160	rBV3	395672	962694	8.84%	0.376%
93	14.583	1169	1172	1174	rBV2	2903101	4216170	38.74%	1.646%
94	15.028	1208	1211	1214	rBV2	2032232	3368430	30.95%	1.315%
95	15.451	1245	1248	1250	rVB	1876090	2021140	18.57%	0.789%
96	15.863	1281	1284	1289	rVB	1374688	1647940	15.14%	0.643%
97	15.966	1290	1293	1298	rBV3	620802	1424414	13.09%	0.556%
98	16.263	1316	1319	1323	rVB	1123945	1466670	13.47%	0.573%
99	16.651	1351	1353	1356	rVB	619826	898649	8.26%	0.351%
100	17.109	1390	1393	1397	rVB2	731479	1291371	11.86%	0.504%

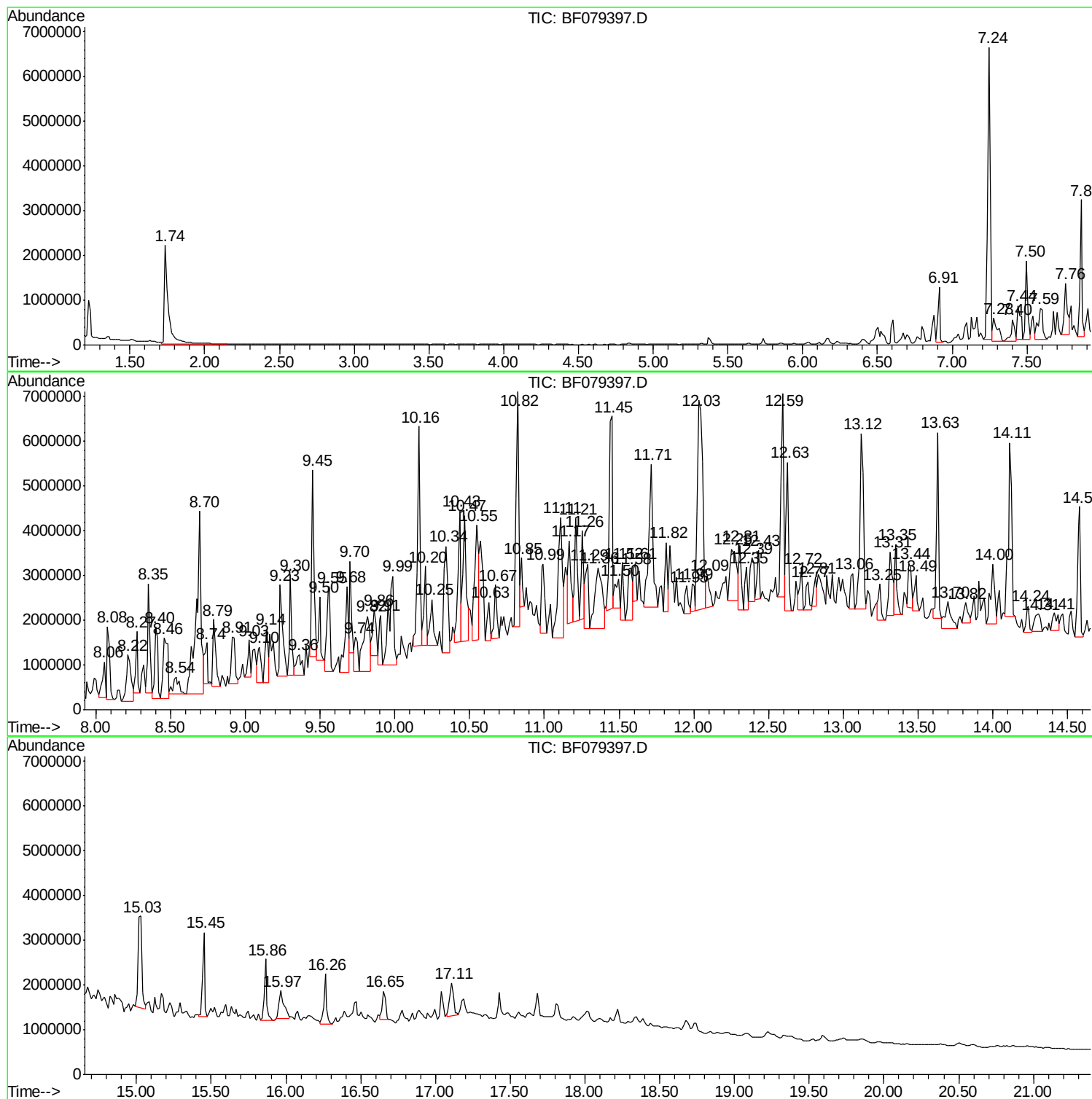
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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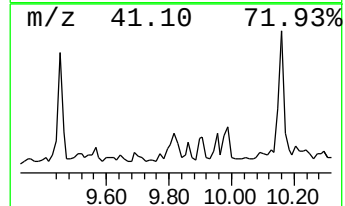
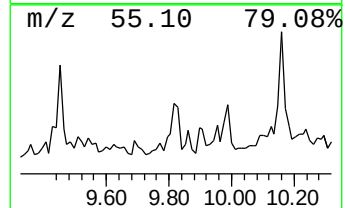
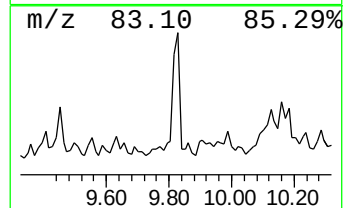
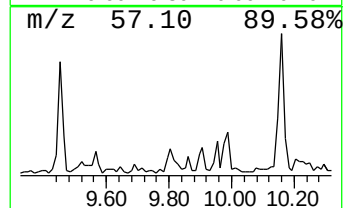
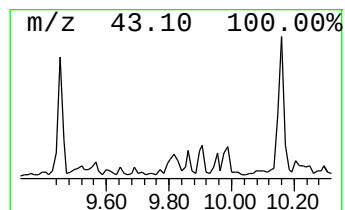
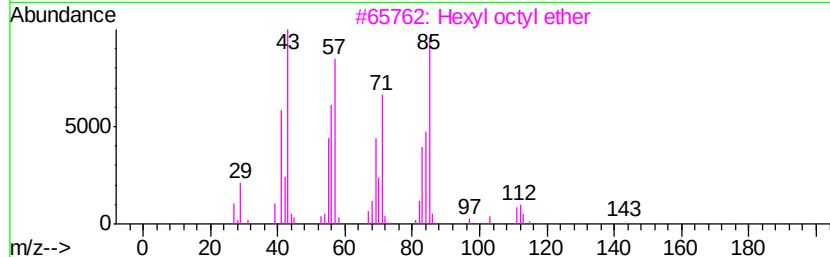
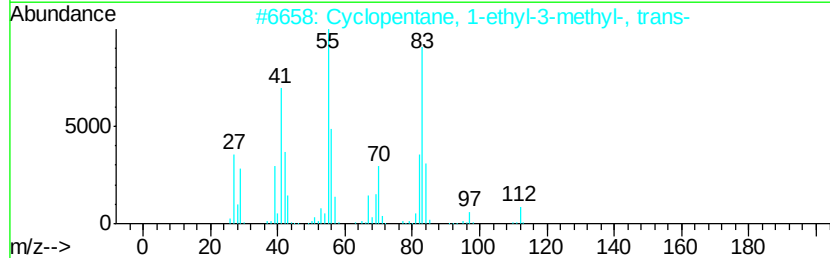
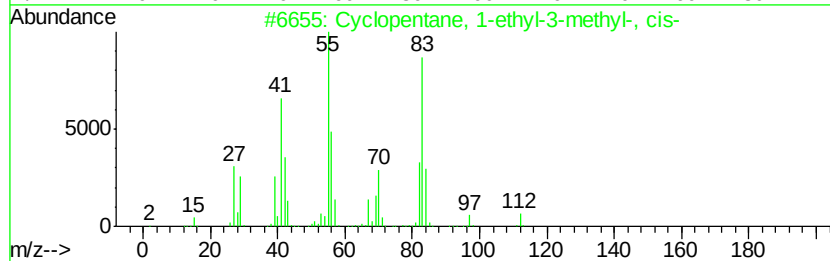
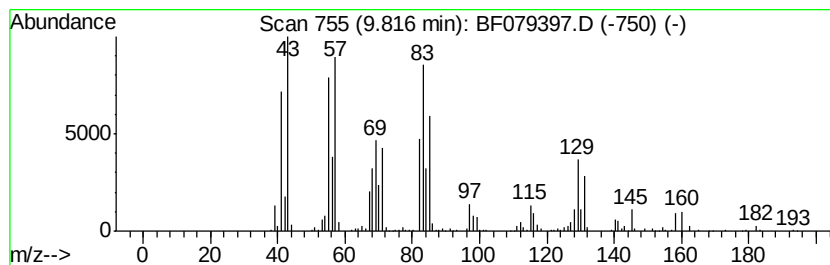
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown9.82 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.82	73.19 ng	3878140	Acenaphthene-d10	10.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopentane, 1-ethyl-3-methyl-,...	112	C8H16	002613-66-3	30
2		Cyclopentane, 1-ethyl-3-methyl-,...	112	C8H16	002613-65-2	30
3		Hexyl octyl ether	214	C14H30O	017071-54-4	27
4		Cyclohexane, ethyl-	112	C8H16	001678-91-7	27
5		6,6-Dimethyl-1,3-heptadien-5-ol	140	C9H16O	081912-03-0	22



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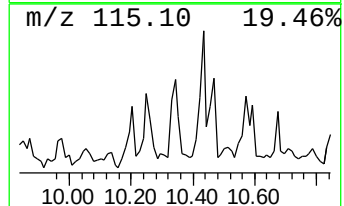
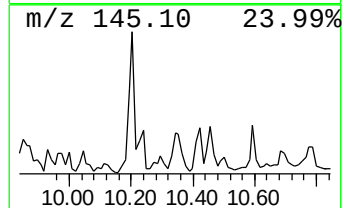
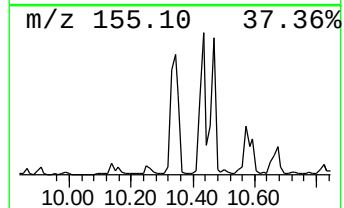
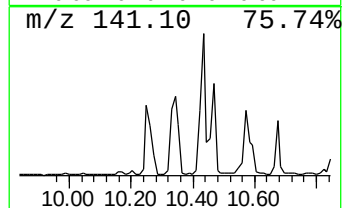
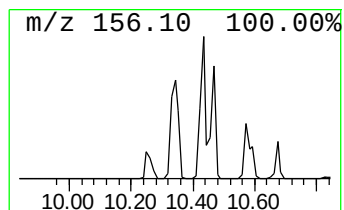
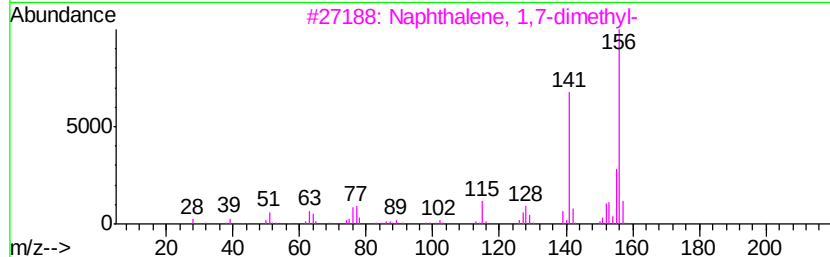
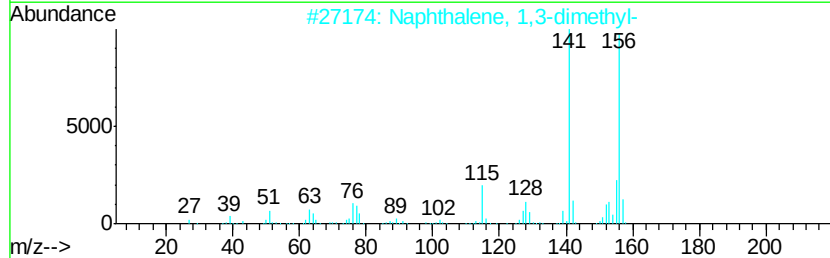
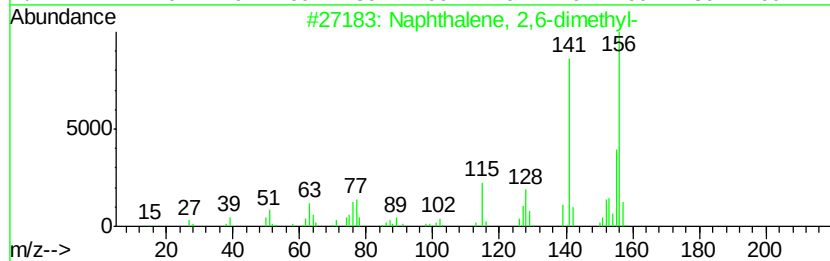
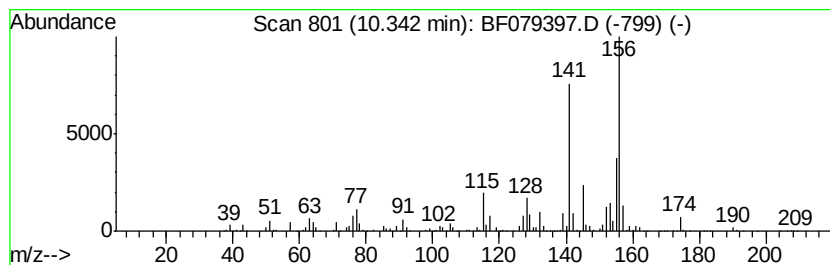
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Naphthalene, 2,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.34	77.09 ng	4085000	Acenaphthene-d10	10.85
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 96
2		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 96
3		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 96
4		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 96
5		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 96



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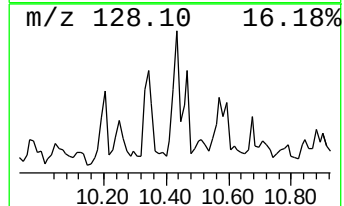
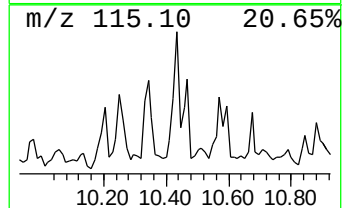
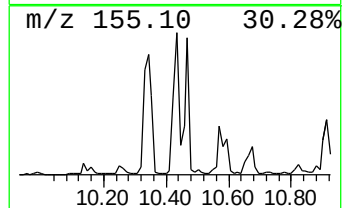
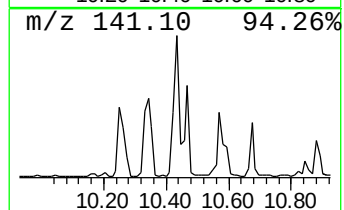
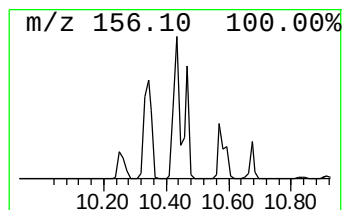
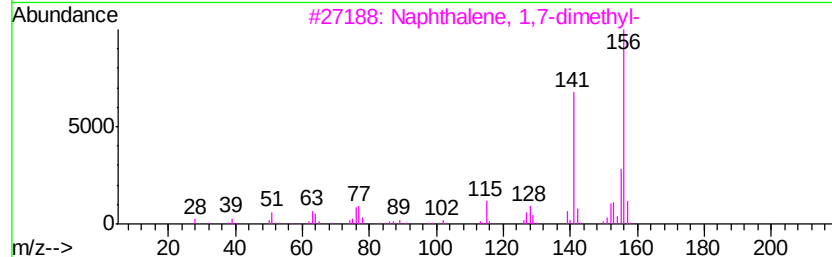
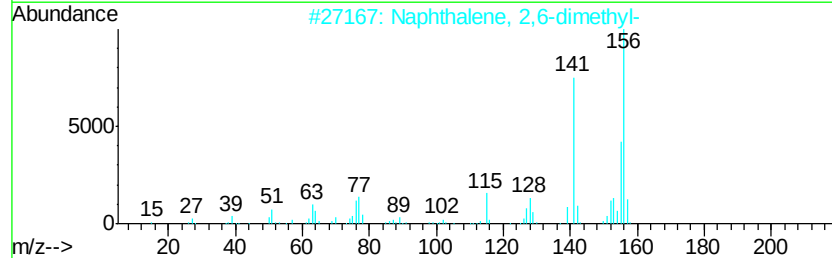
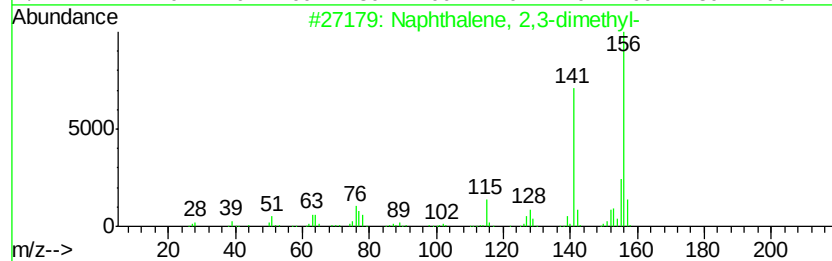
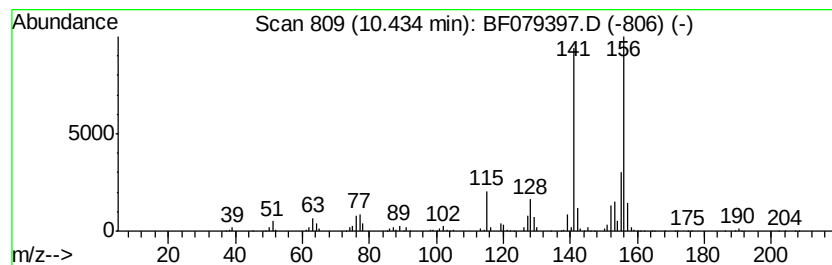
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TIC Integration Parameters: LSCINT.P

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.43	74.76 ng	3961360	Acenaphthene-d10	10.85
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 97
2		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 97
3		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 97
4		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 97
5		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 96



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TOPSOIL

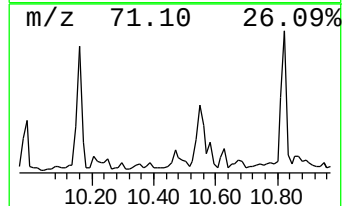
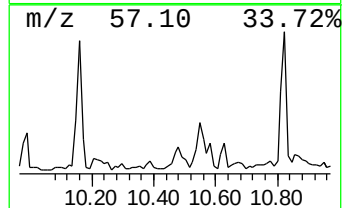
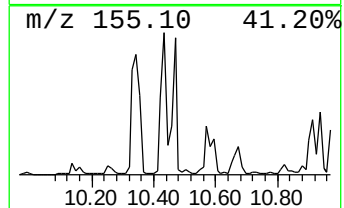
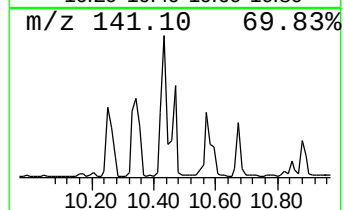
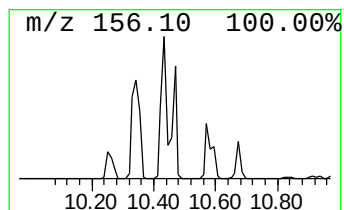
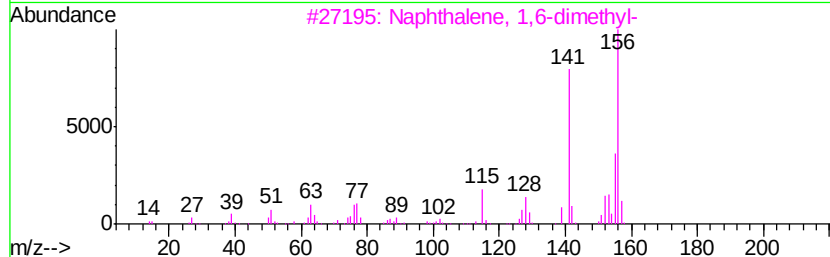
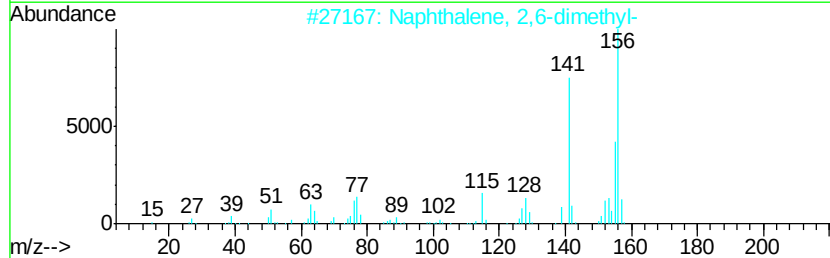
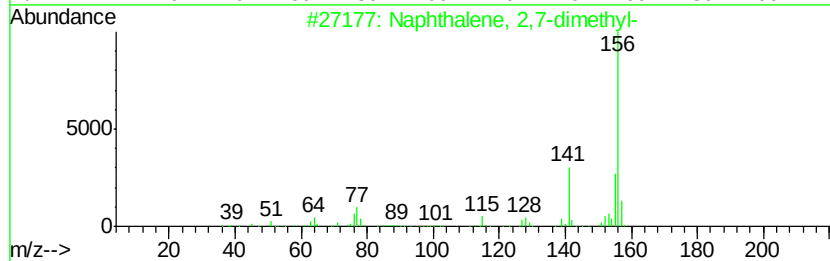
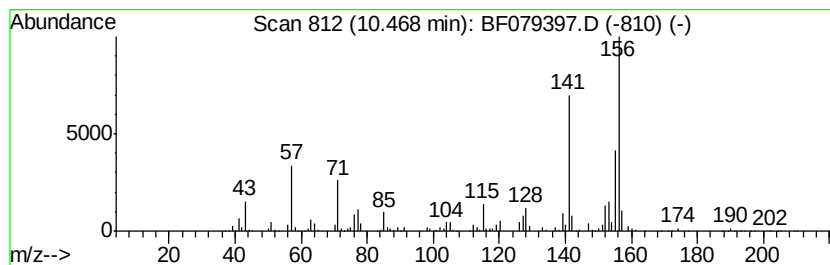
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Naphthalene, 2,7-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.47	78.31 ng	4149620	Acenaphthene-d10	10.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
2		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	93
3		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	93
4		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	92
5		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

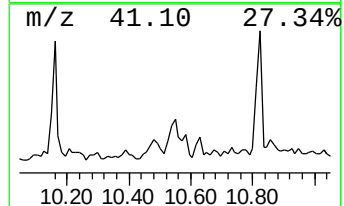
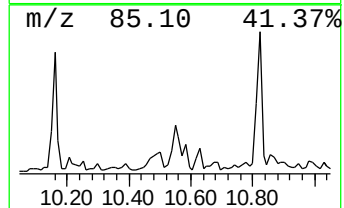
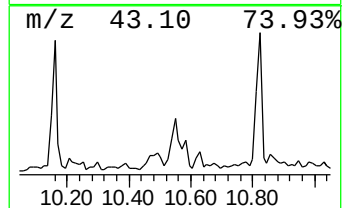
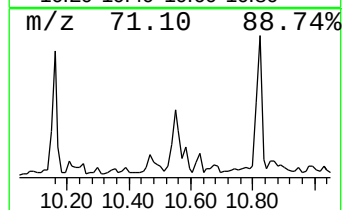
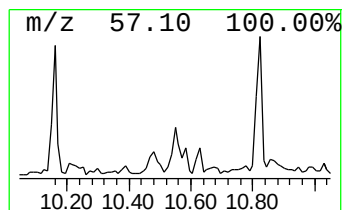
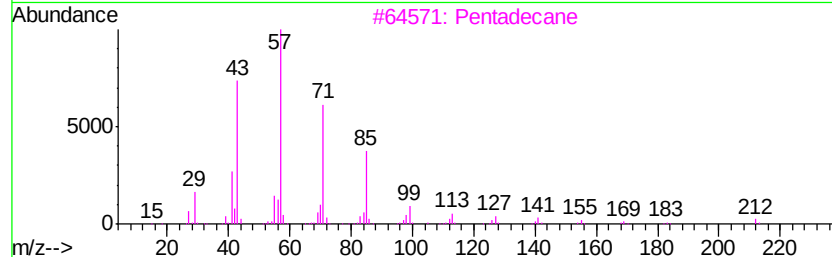
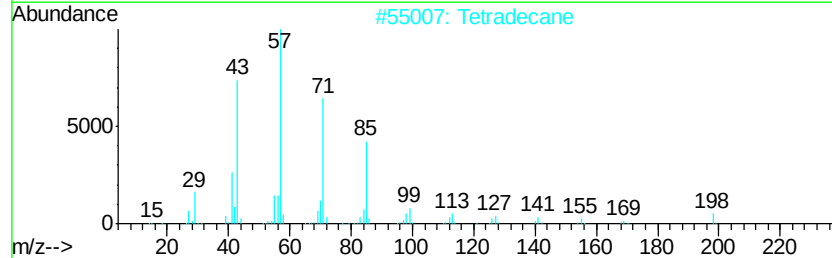
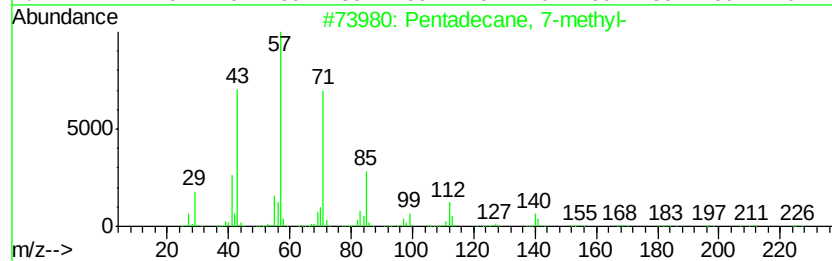
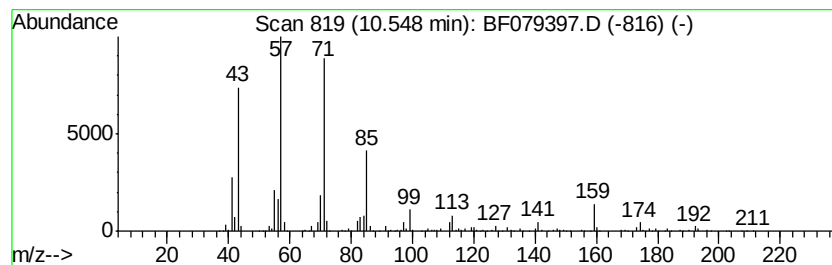
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Pentadecane, 7-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.55	89.60 ng	4747940	Acenaphthene-d10	10.85
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Pentadecane, 7-methyl-	226 C16H34	006165-40-8	80
2	Tetradecane	198 C14H30	000629-59-4	78
3	Pentadecane	212 C15H32	000629-62-9	72
4	1,3-Dimethylcyclopentanol	114 C7H14O	019550-46-0	64
5	Bacchotricuneatin c	342 C20H22O5	066563-30-2	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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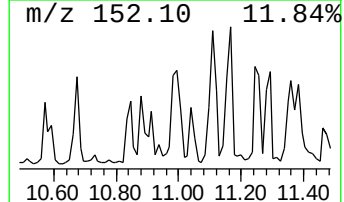
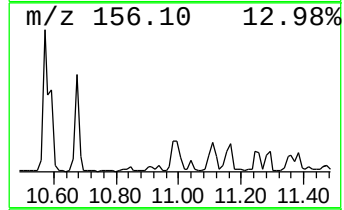
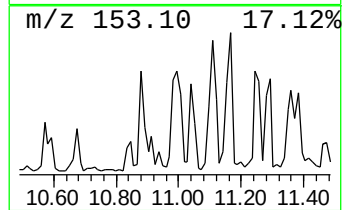
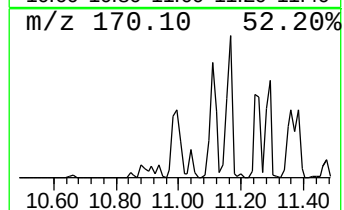
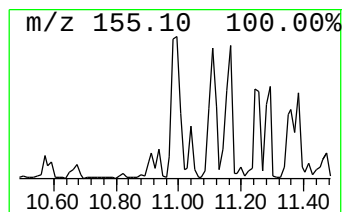
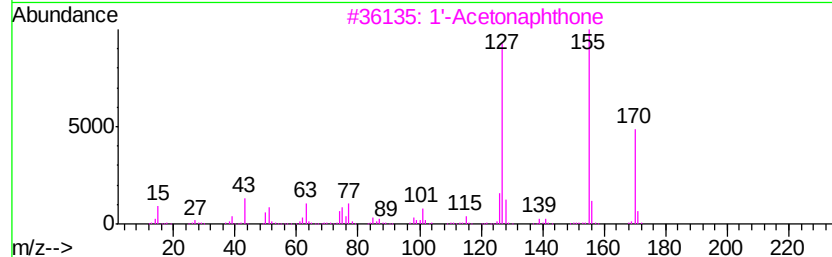
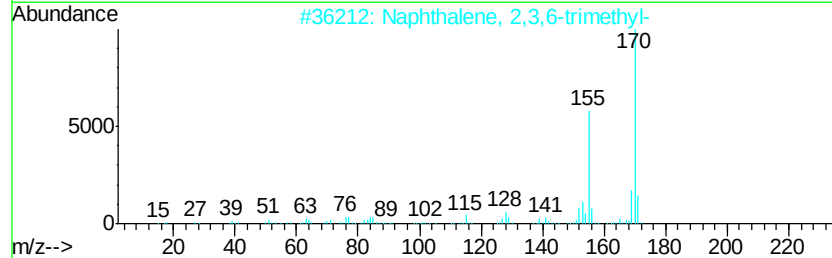
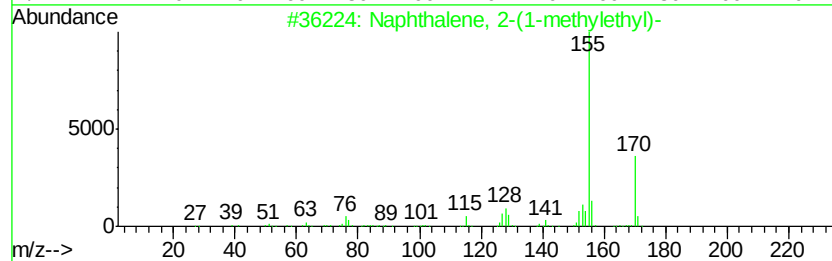
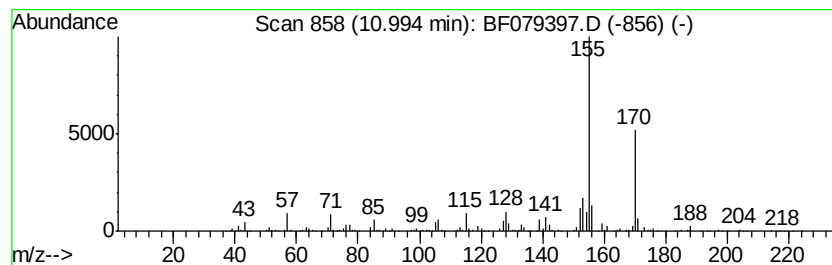
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 2-(1-methyleth... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	49.75 ng	2636280	Acenaphthene-d10	10.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	91
2		Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	90
3		1'-Acetonaphthone	170	C12H10O	000941-98-0	64
4		Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	64
5		Ethanone, 1-(5-chloro-2-hydroxyp...	170	C8H7ClO2	001450-74-4	59



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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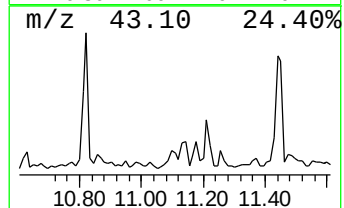
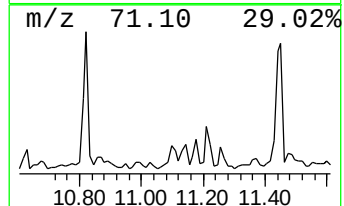
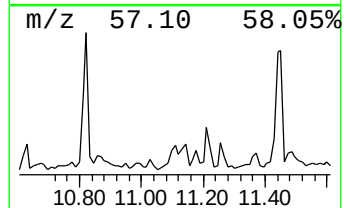
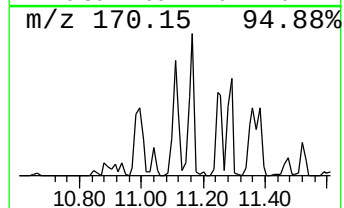
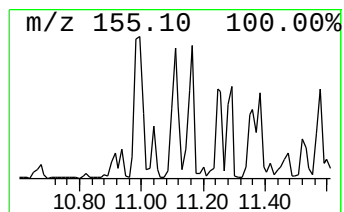
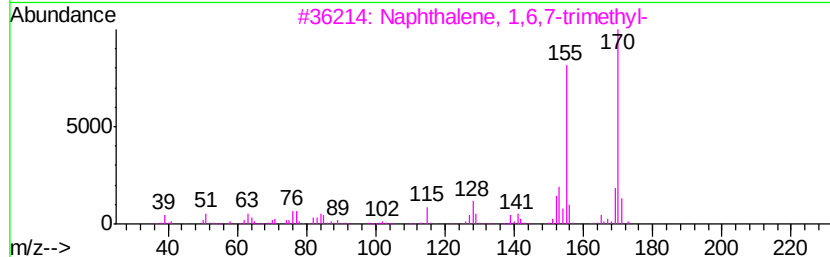
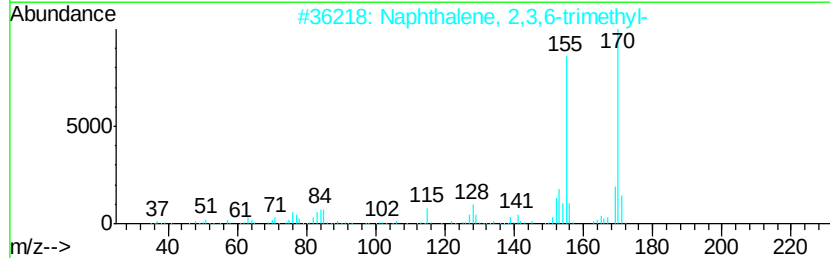
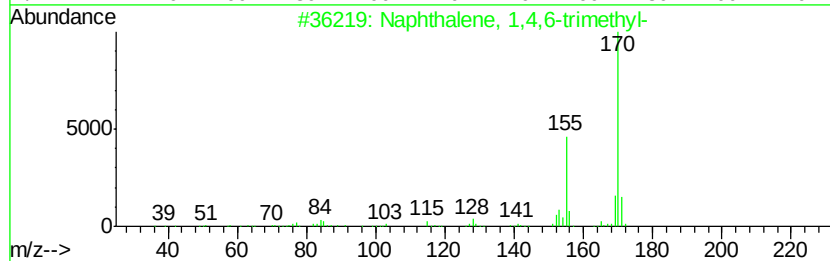
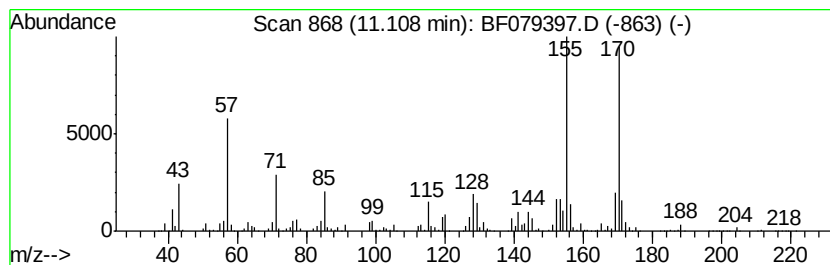
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphthalene, 1,4,6-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	108.50 ng	5749230	Acenaphthene-d10	10.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
2		Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	95
3		Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	94
4		1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	93
5		3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
Data File : BF079397.D
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Sample : G2303-01 5X
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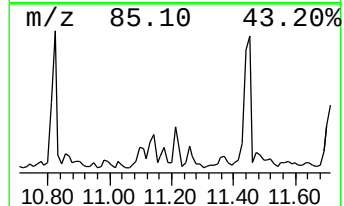
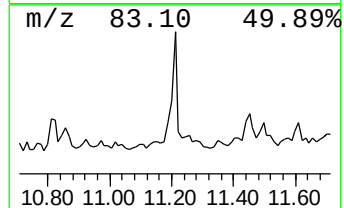
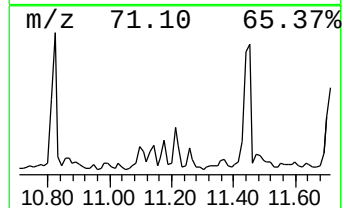
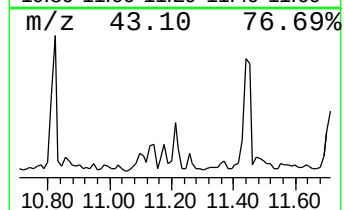
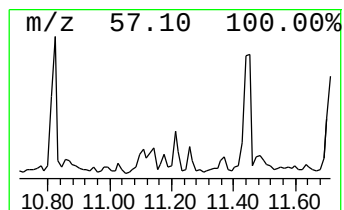
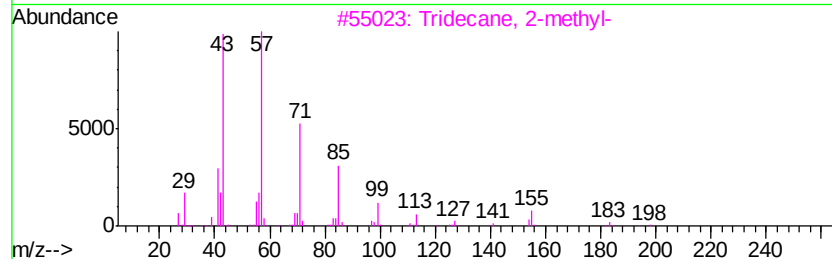
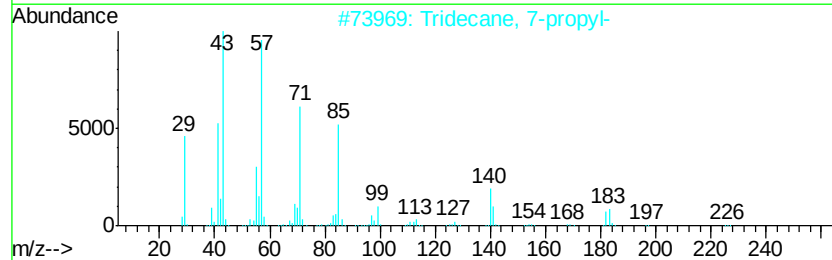
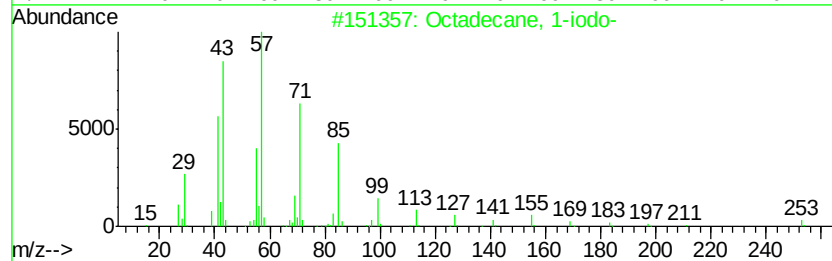
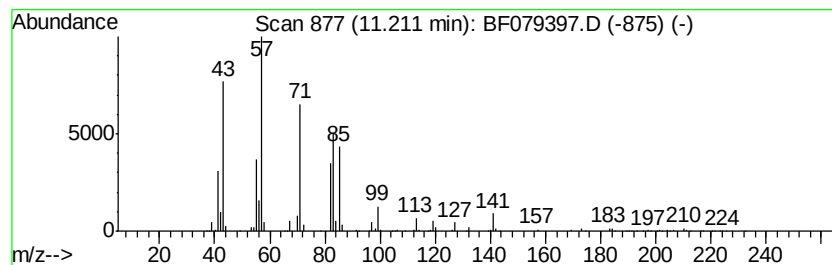
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Octadecane, 1-iodo- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	52.81 ng	2798270	Acenaphthene-d10	10.85
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Octadecane, 1-iodo-	380 C18H37I	000629-93-6 58
2		Tridecane, 7-propyl-	226 C16H34	055045-09-5 53
3		Tridecane, 2-methyl-	198 C14H30	001560-96-9 53
4		Heptacosane	380 C27H56	000593-49-7 52
5		Eicosane	282 C20H42	000112-95-8 52



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
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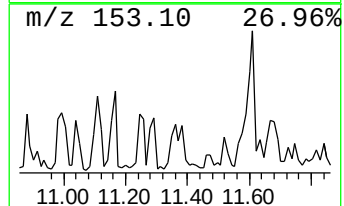
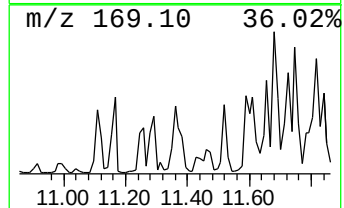
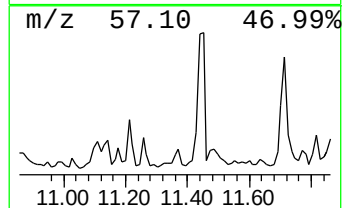
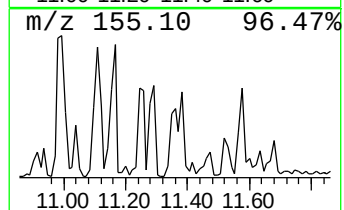
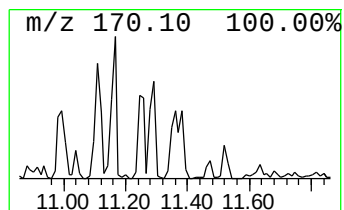
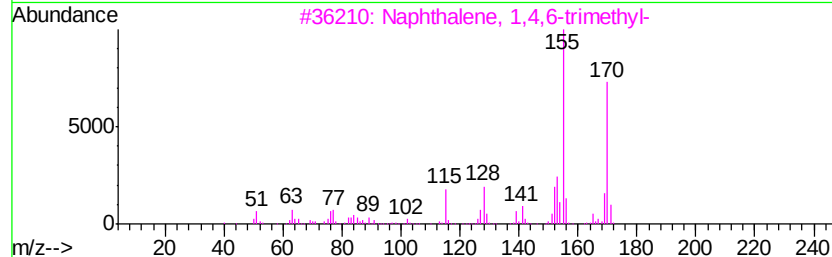
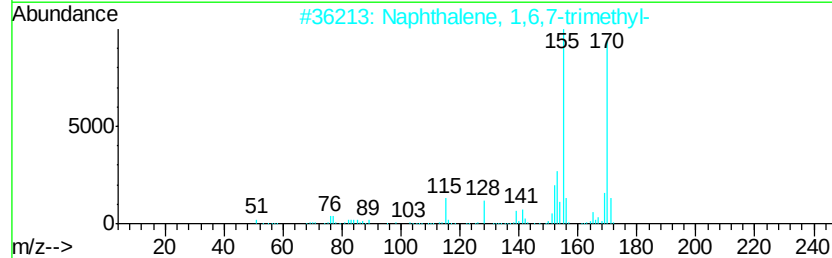
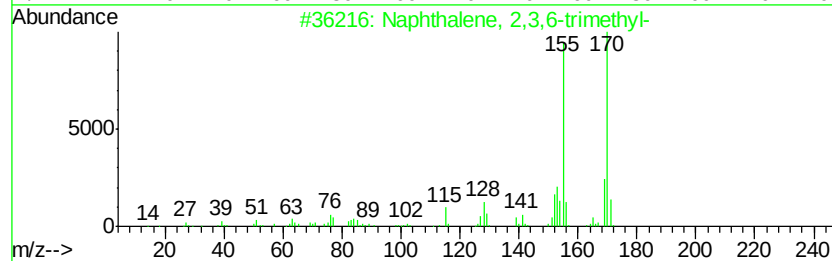
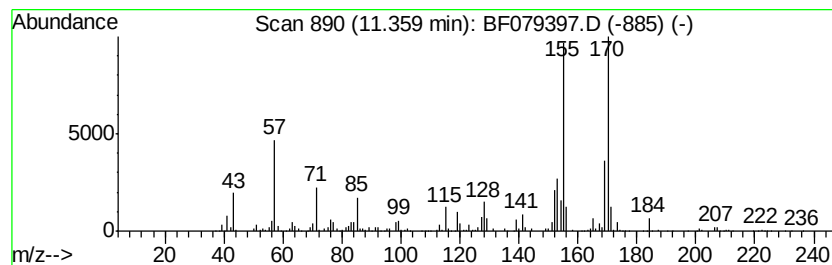
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Naphthalene, 2,3,6-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	89.14 ng	4723720	Acenaphthene-d10	10.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
2		Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3		Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4		Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	93
5		1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	83



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
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Sample : G2303-01 5X
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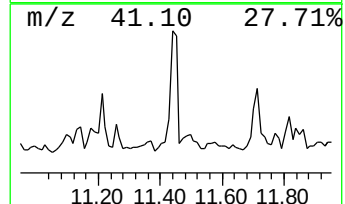
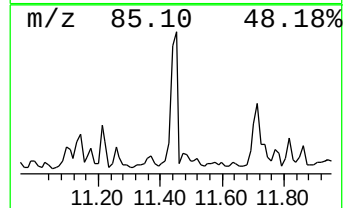
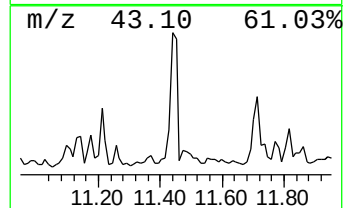
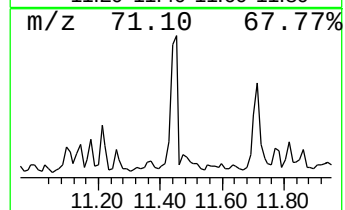
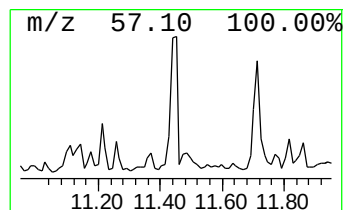
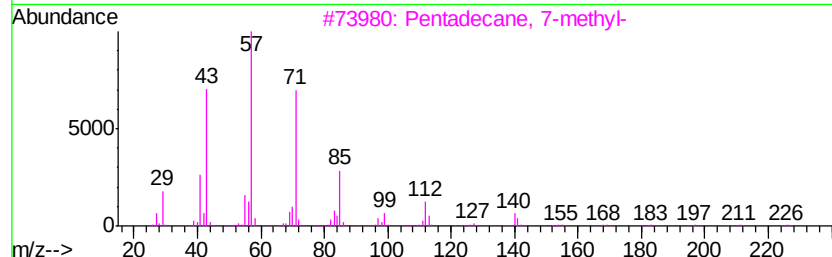
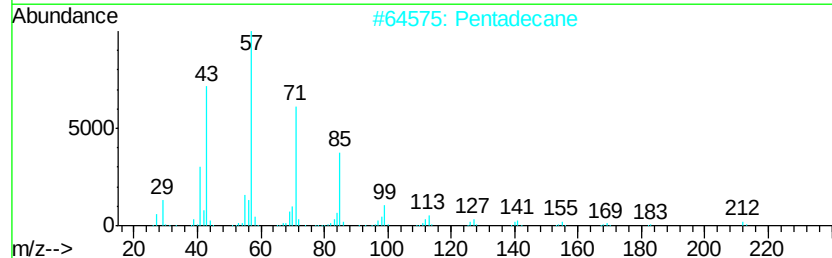
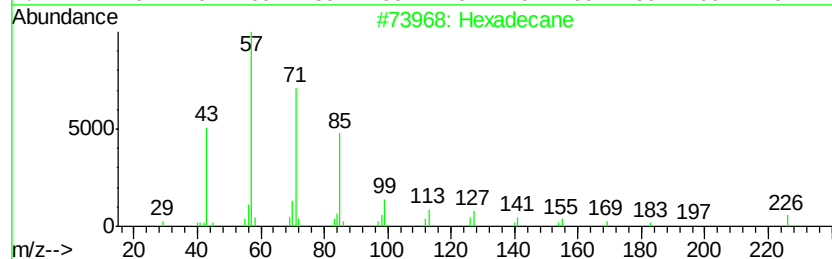
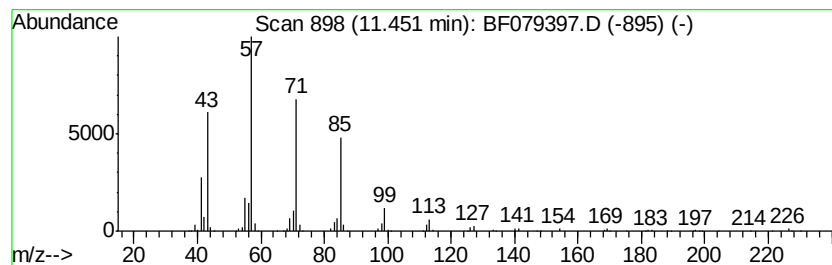
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.45	124.34 ng	6588670	Acenaphthene-d10	10.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexadecane	226	C16H34	000544-76-3	93
2		Pentadecane	212	C15H32	000629-62-9	90
3		Pentadecane, 7-methyl-	226	C16H34	006165-40-8	87
4		Undecane, 5-ethyl-5-propyl-	226	C16H34	002755-07-9	86
5		Heptadecane	240	C17H36	000629-78-7	83



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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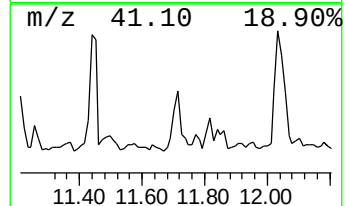
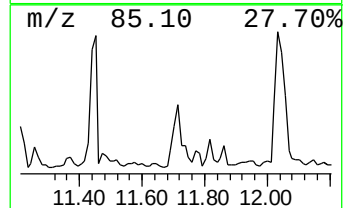
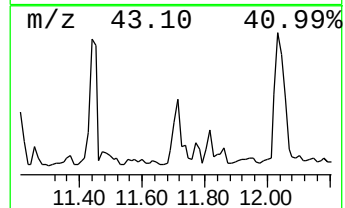
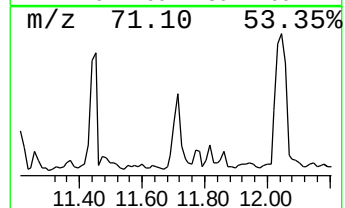
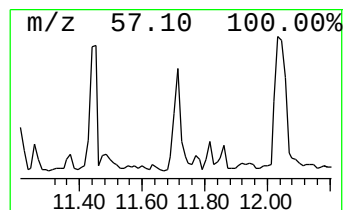
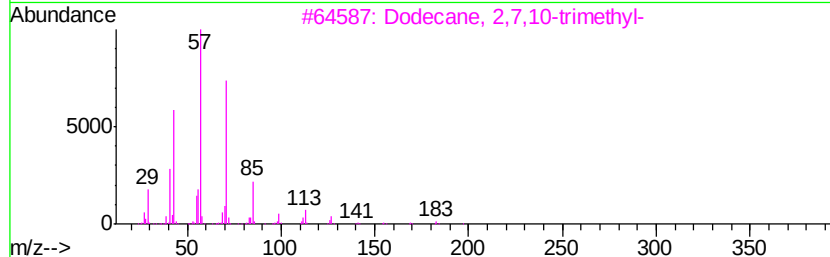
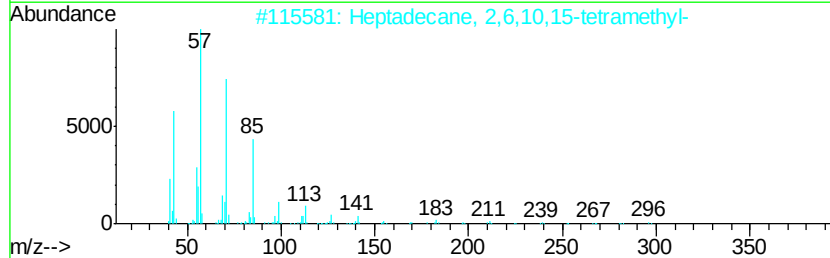
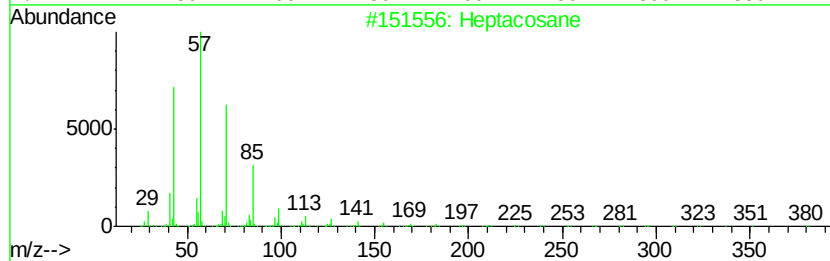
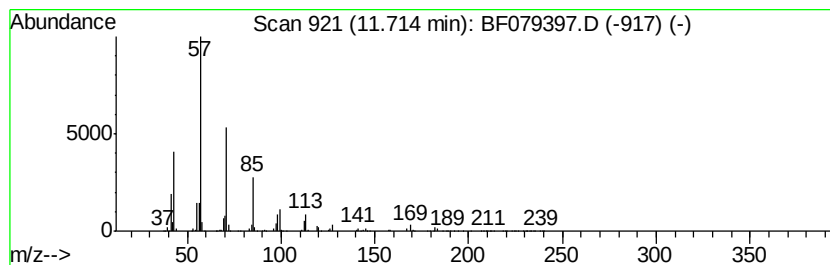
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Heptacosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	112.85 ng	5979630	Acenaphthene-d10	10.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptacosane	380	C27H56	000593-49-7	90
2		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	72
3		Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	72
4		Hexadecane	226	C16H34	000544-76-3	64
5		Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
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Sample : G2303-01 5X
Misc :
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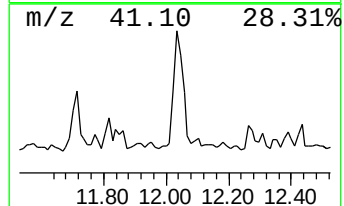
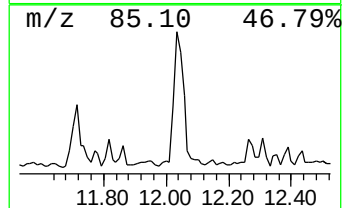
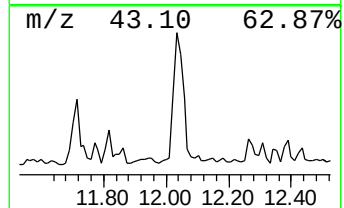
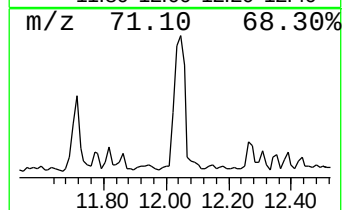
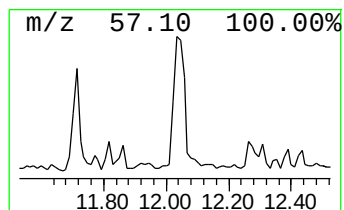
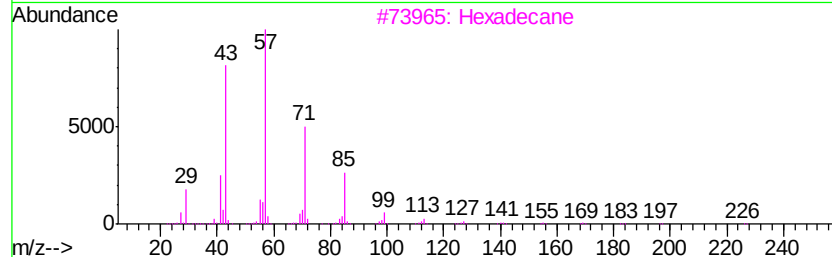
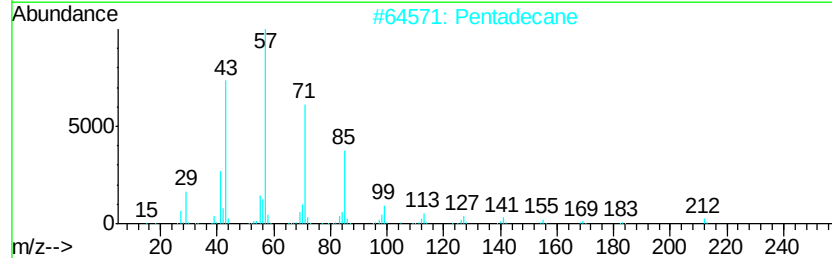
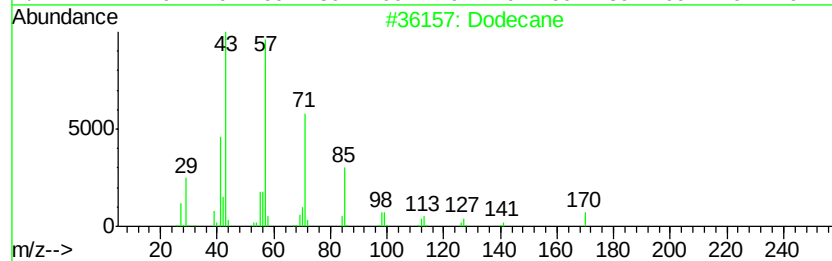
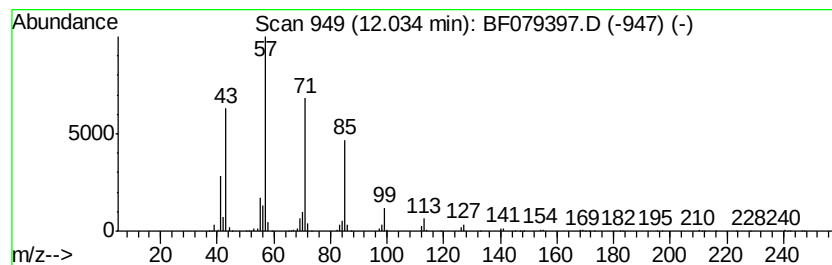
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Dodecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	217.82 ng	10884400	Phenanthrene-d10	12.69
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Dodecane	170 C12H26	000112-40-3	90
2	Pentadecane	212 C15H32	000629-62-9	90
3	Hexadecane	226 C16H34	000544-76-3	90
4	5-Ethyldecane	170 C12H26	017302-36-2	86
5	Octacosane	394 C28H58	000630-02-4	83



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

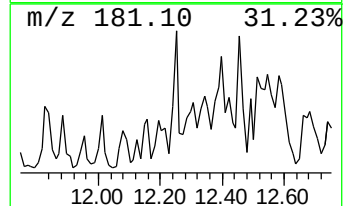
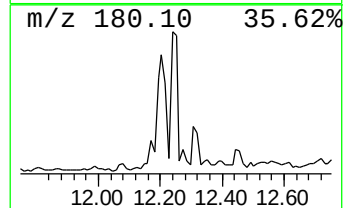
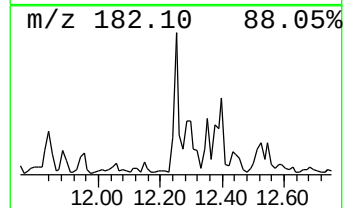
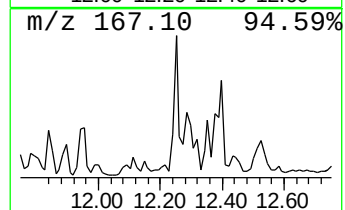
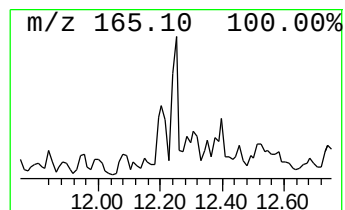
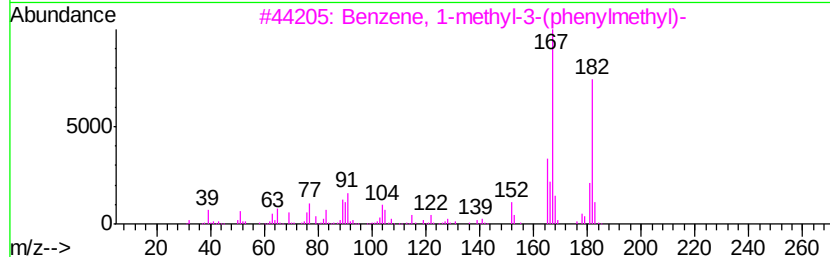
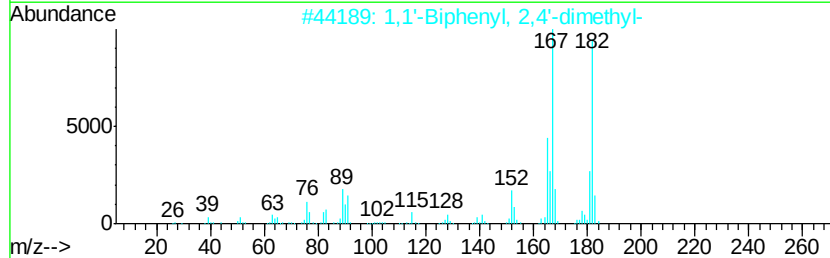
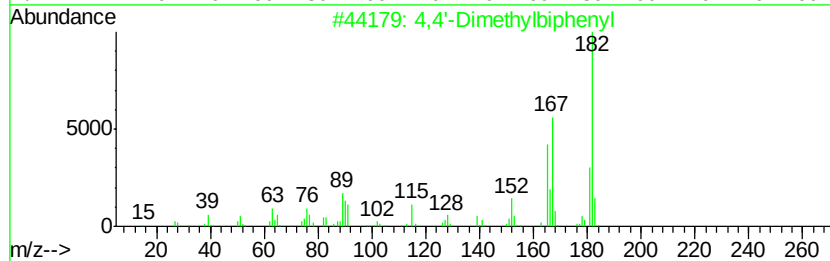
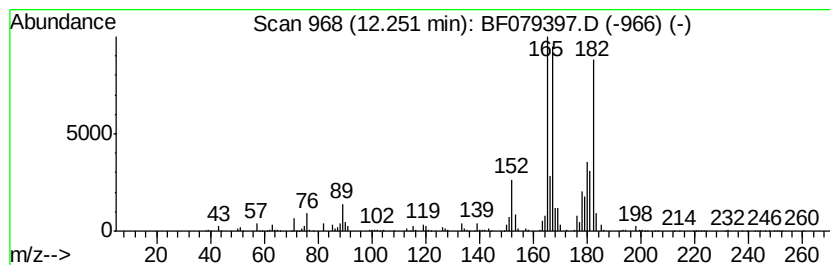
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 4,4'-Dimethylbiphenyl Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.25	74.52 ng	3723590	Phenanthrene-d10	12.69	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	89
2	1,1'-Biphenyl, 2,4'-dimethyl-	182	C14H14	000611-61-0	50
3	Benzene, 1-methyl-3-(phenylmethyl)-	182	C14H14	000620-47-3	49
4	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	49
5	Benzene, 1-methyl-4-(phenylmethyl)-	182	C14H14	000620-83-7	49



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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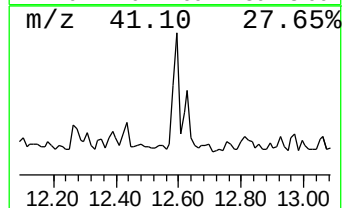
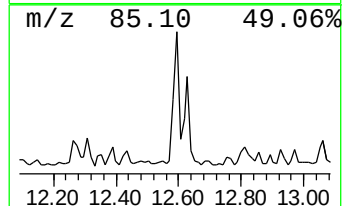
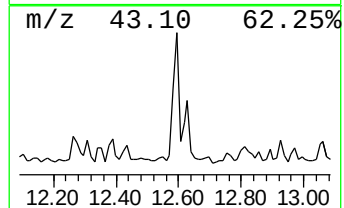
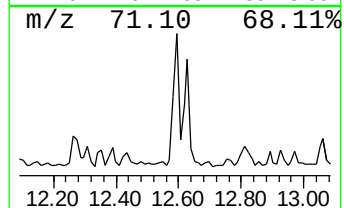
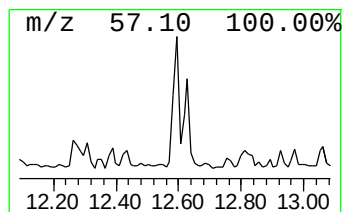
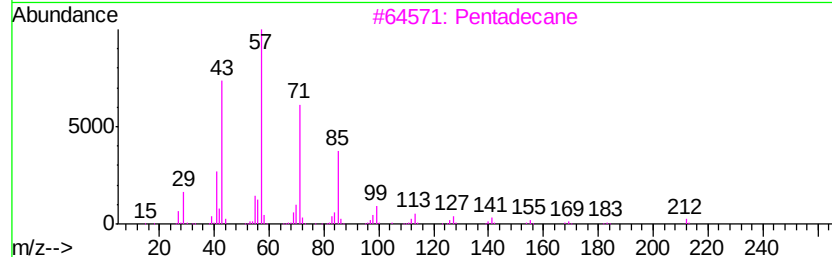
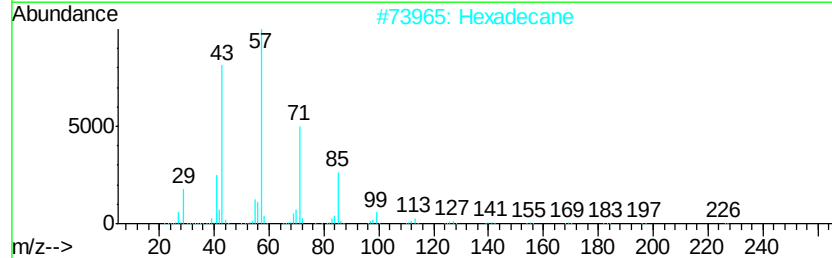
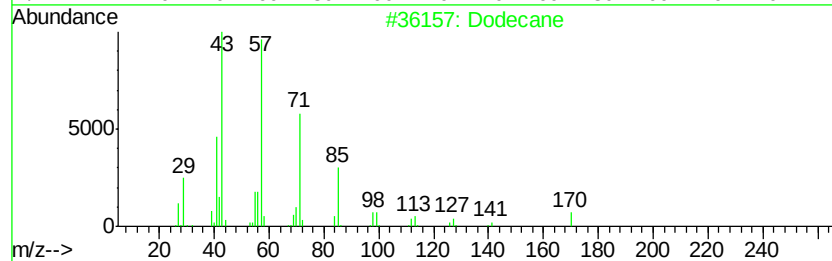
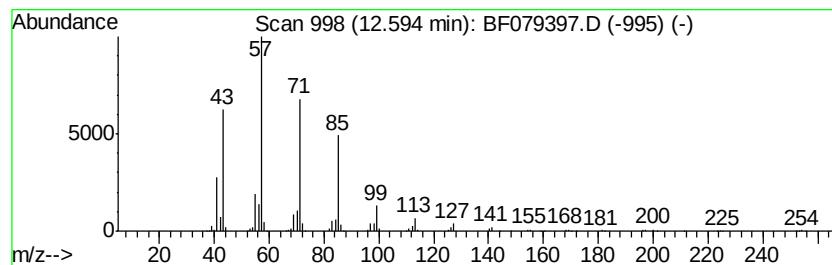
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Dodecane, 1-iodo- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	105.76 ng	5284980	Phenanthrene-d10	12.69

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dodecane	170	C12H26	000112-40-3	90
2		Hexadecane	226	C16H34	000544-76-3	90
3		Pentadecane	212	C15H32	000629-62-9	90
4		Dodecane, 1-iodo-	296	C12H25I	004292-19-7	86
5		Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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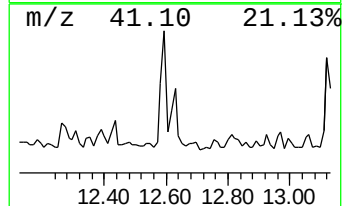
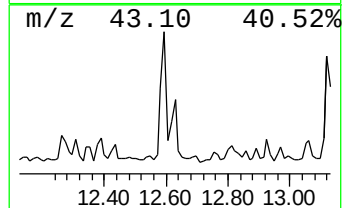
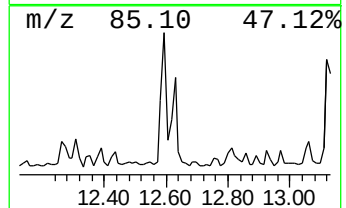
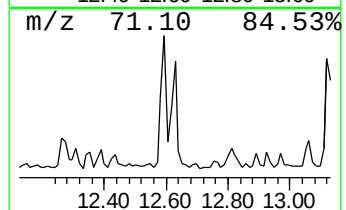
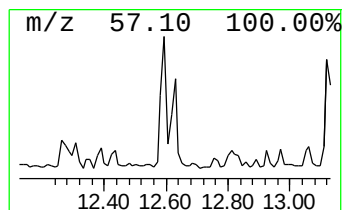
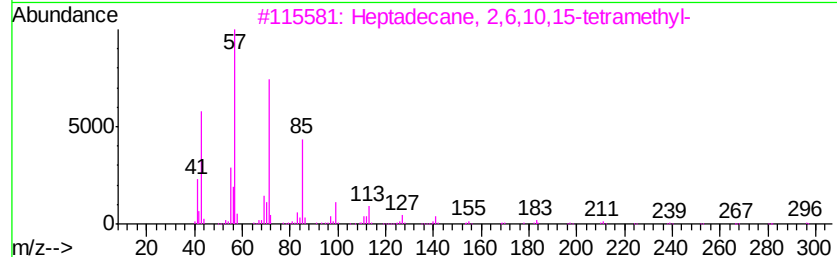
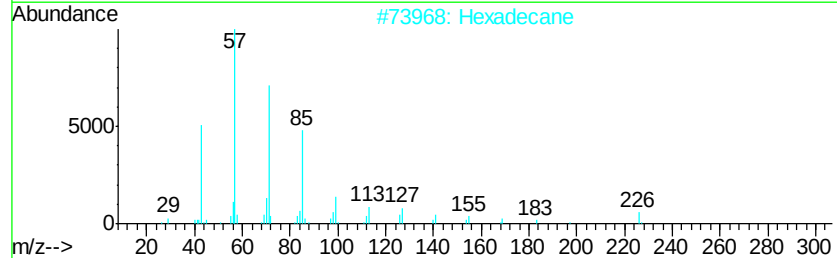
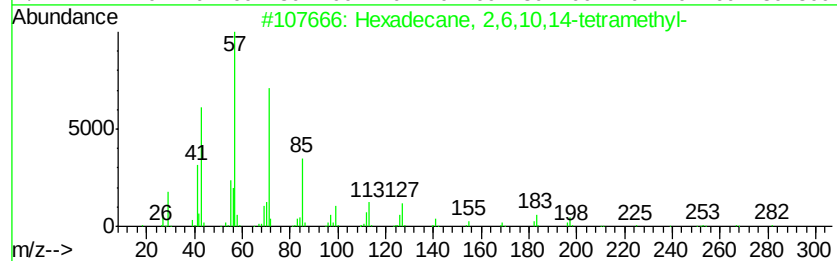
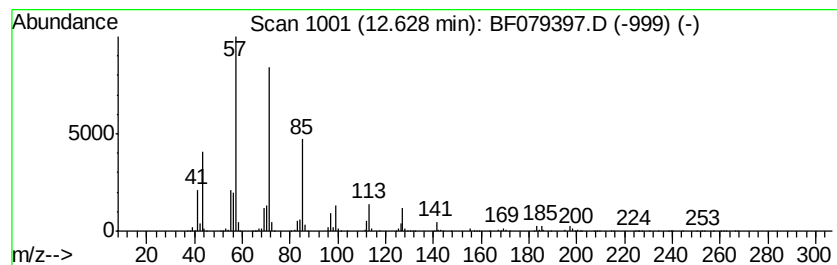
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Hexadecane, 2,6,10,14-tetra... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	78.40 ng	3917740	Phenanthrene-d10	12.69

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	91
2		Hexadecane	226	C16H34	000544-76-3	90
3		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	87
4		Hexacosane	366	C26H54	000630-01-3	86
5		Tridecane, 7-methyl-	198	C14H30	026730-14-3	83



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
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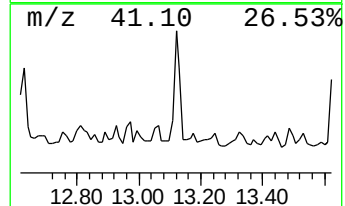
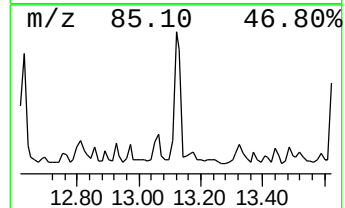
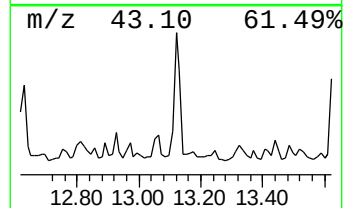
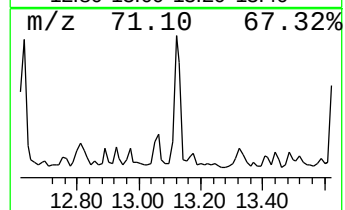
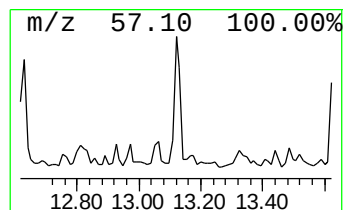
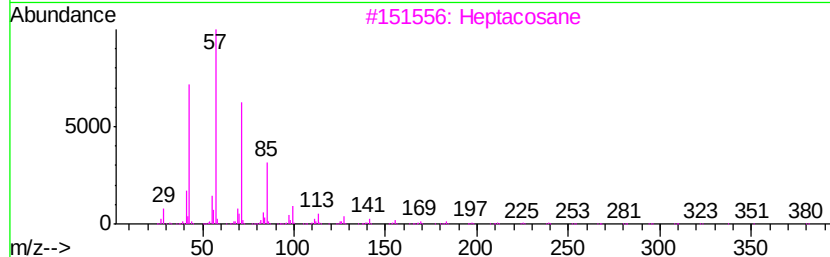
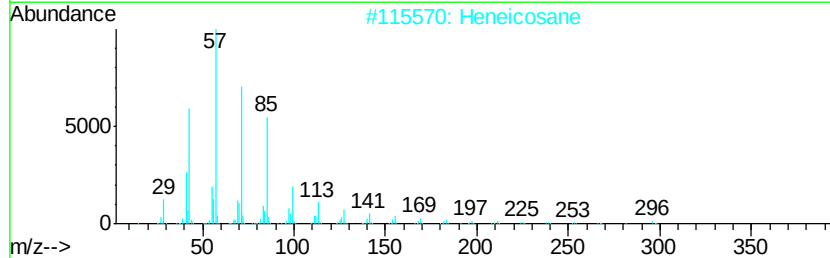
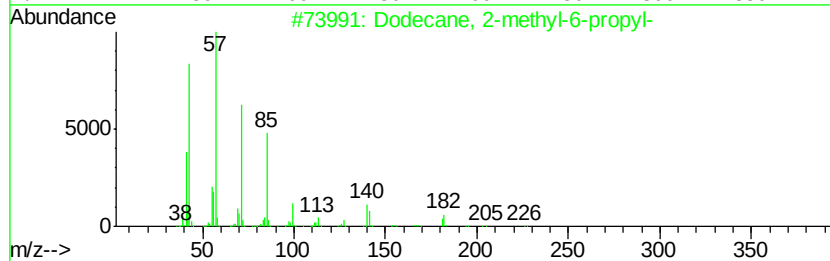
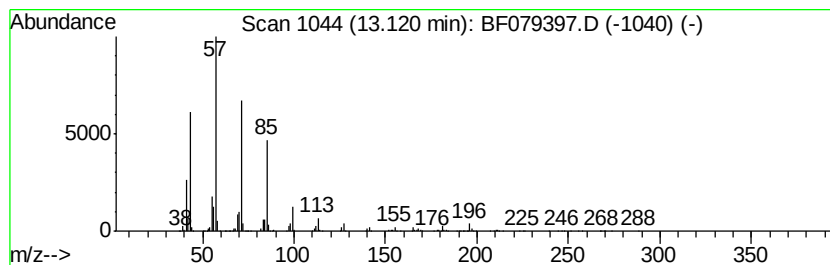
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Dodecane, 2-methyl-6-propyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	124.82 ng	6237230	Phenanthrene-d10	12.69

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	93
2		Heneicosane	296	C21H44	000629-94-7	90
3		Heptacosane	380	C27H56	000593-49-7	90
4		Hexadecane	226	C16H34	000544-76-3	90
5		Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
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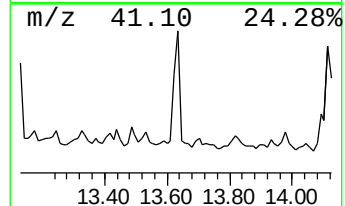
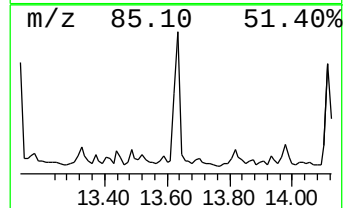
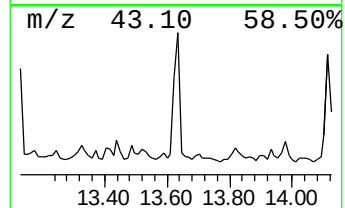
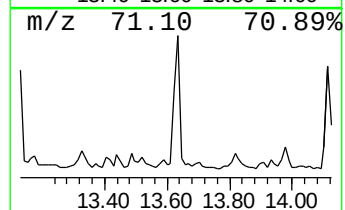
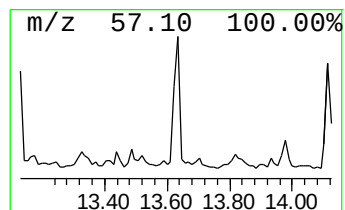
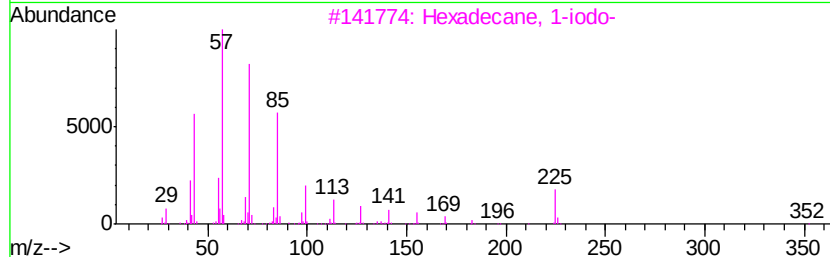
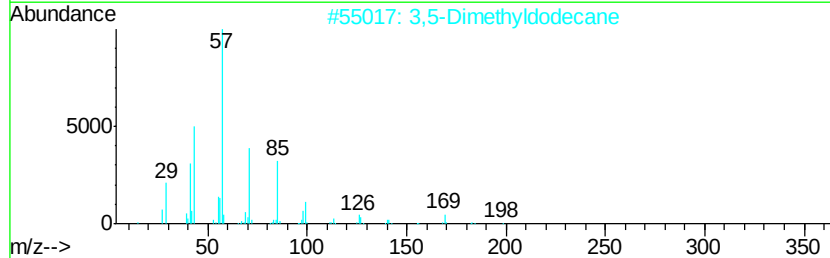
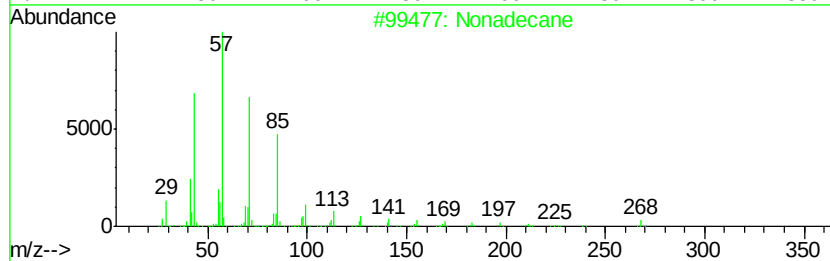
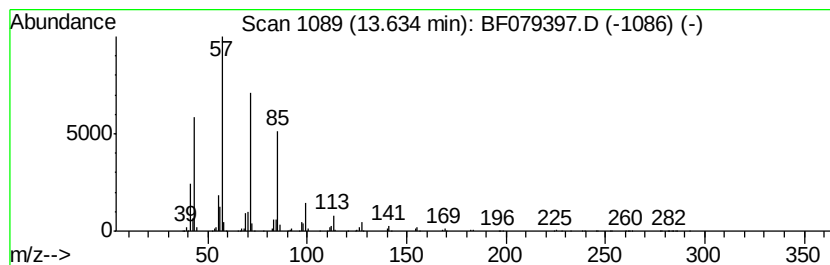
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Nonadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.63	96.32 ng	4813130	Phenanthrene-d10	12.69

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonadecane	268	C19H40	000629-92-5	91
2		3,5-Dimethyldodecane	198	C14H30	107770-99-0	90
3		Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	90
4		Hexadecane	226	C16H34	000544-76-3	90
5		Tridecane, 6-methyl-	198	C14H30	013287-21-3	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TOPSOIL

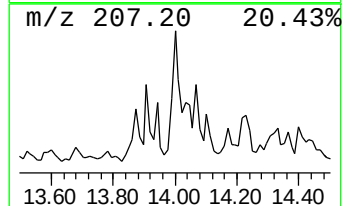
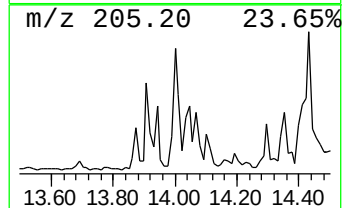
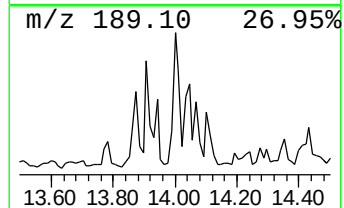
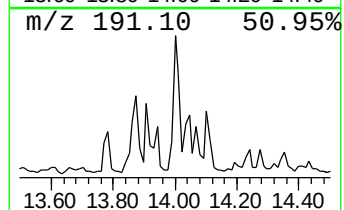
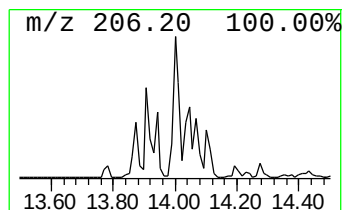
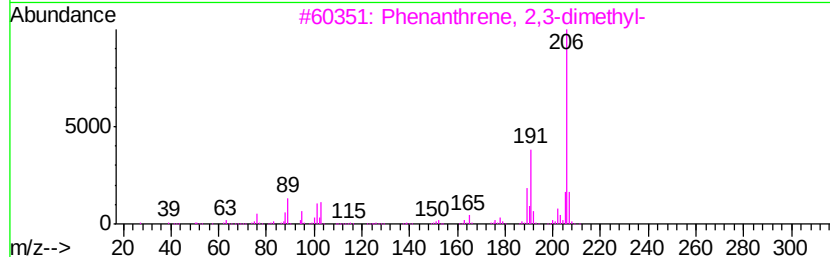
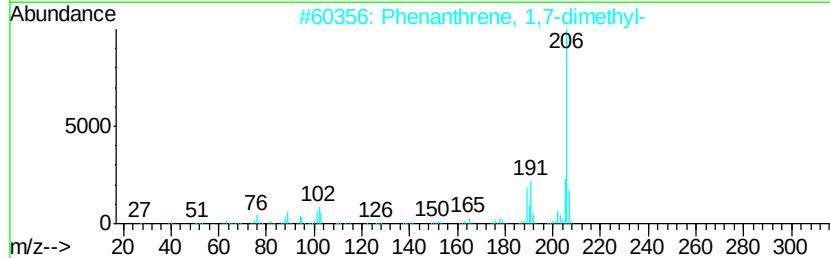
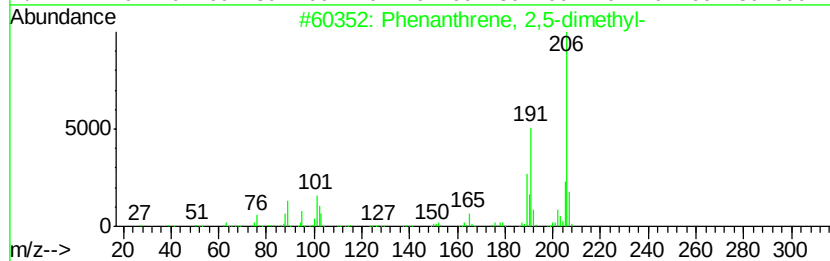
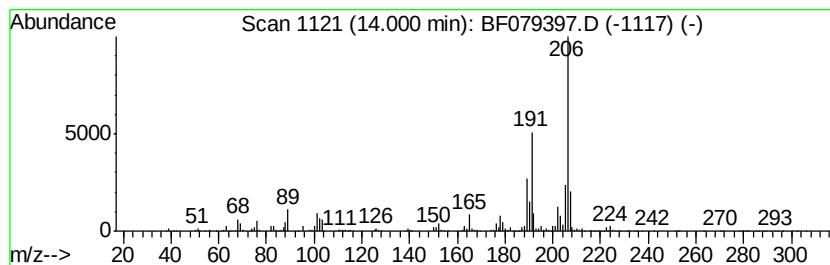
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.00	50.99 ng	2547900	Phenanthrene-d10	12.69

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4		9,10-Dimethylantracene	206	C16H14	000781-43-1	91
5		Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TOPSOIL

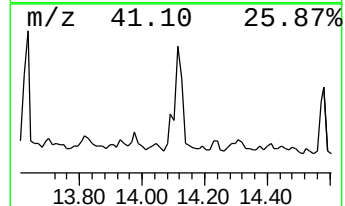
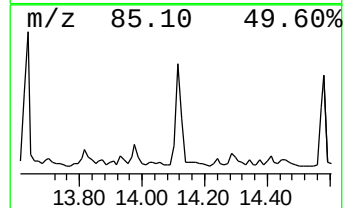
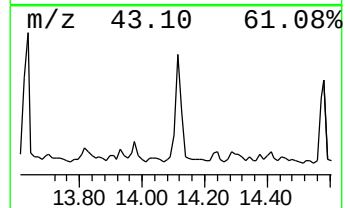
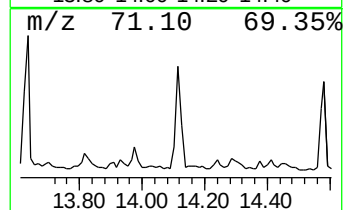
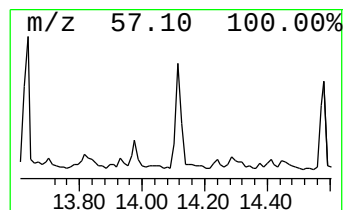
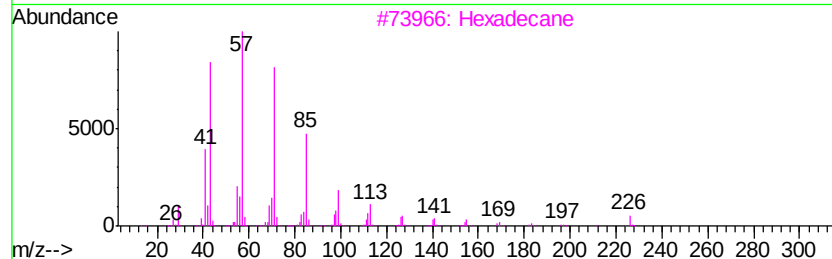
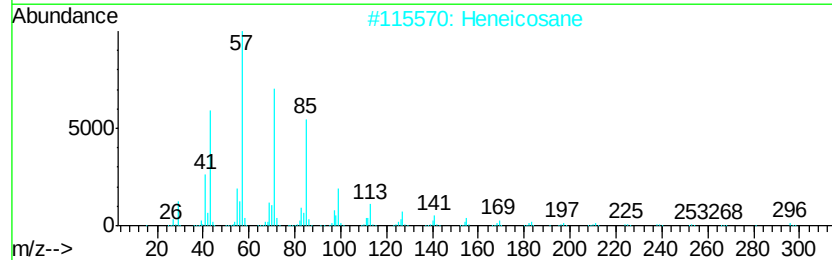
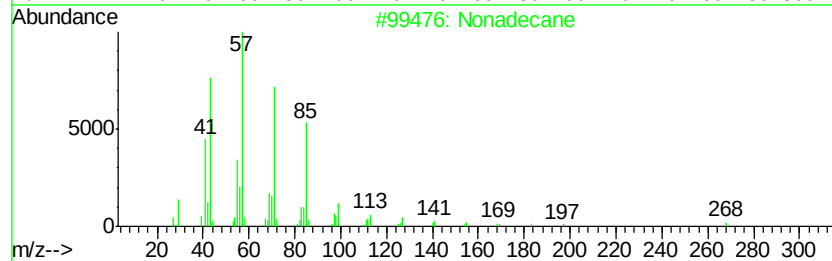
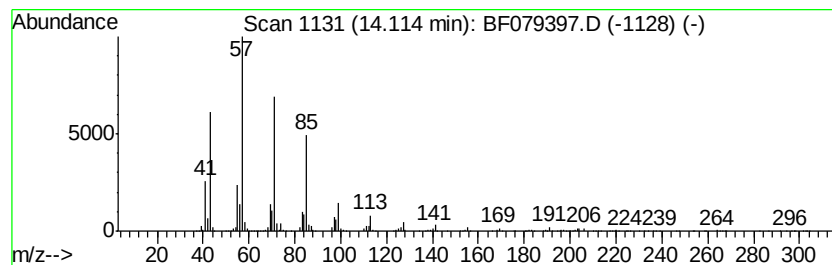
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Heneicosane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	129.98 ng	6495110	Phenanthrene-d10	12.69

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonadecane	268	C19H40	000629-92-5	95
2		Heneicosane	296	C21H44	000629-94-7	91
3		Hexadecane	226	C16H34	000544-76-3	91
4		Heptadecane	240	C17H36	000629-78-7	91
5		Octacosane	394	C28H58	000630-02-4	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052015\
Data File : BF079397.D
Acq On : 21 May 2015 00:16
Operator : TP/IZ
Sample : G2303-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TOPSOIL

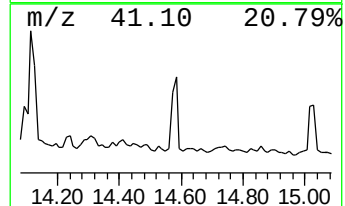
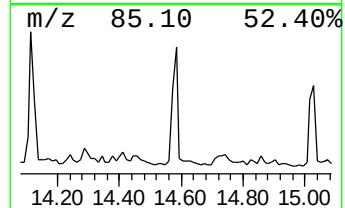
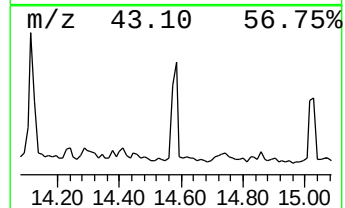
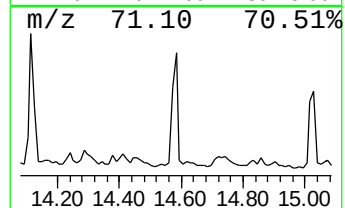
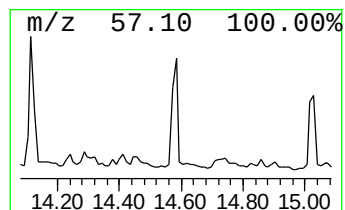
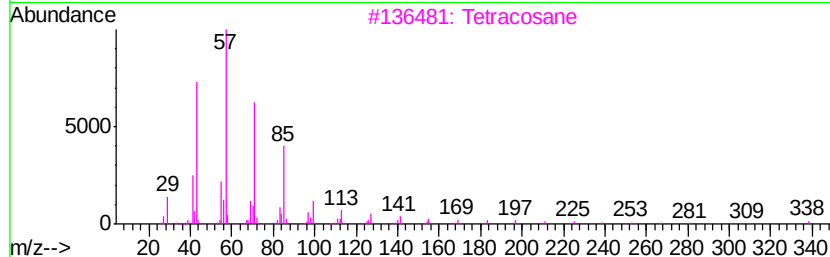
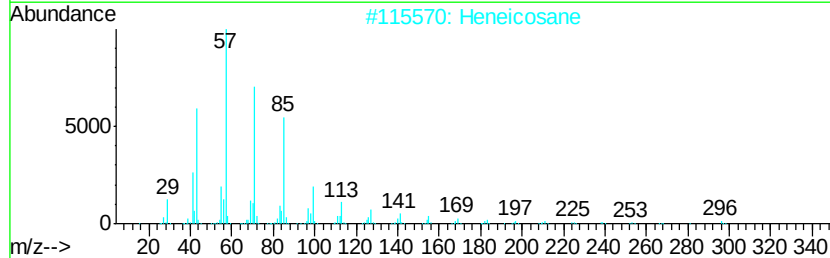
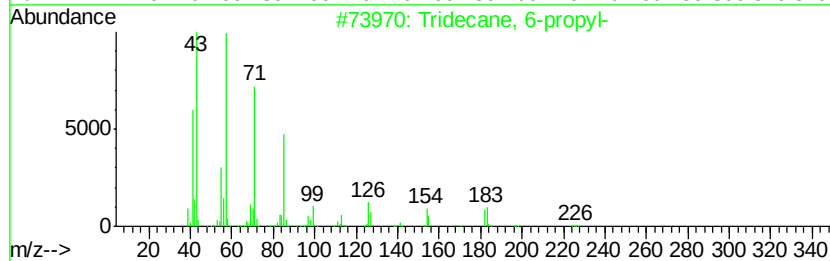
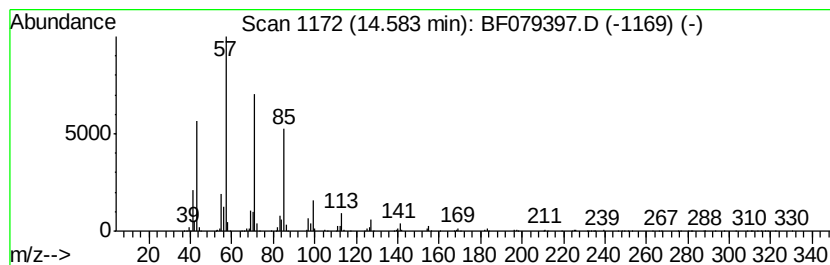
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Tridecane, 6-propyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.58	59.20 ng	4216170	Chrysene-d12	15.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tridecane, 6-propyl-	226	C16H34	055045-10-8	93
2		Heneicosane	296	C21H44	000629-94-7	91
3		Tetracosane	338	C24H50	000646-31-1	90
4		2-Bromo dodecane	248	C12H25Br	013187-99-0	90
5		Pentadecane, 8-heptyl-	310	C22H46	071005-15-7	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052015\
 Data File : BF079397.D
 Acq On : 21 May 2015 00:16
 Operator : TP/IZ
 Sample : G2303-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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Naphthalene, 2,6-...	10.34	77.1	ng	4085000	3	10.85	1059790	20.0
Naphthalene, 2,3-...	10.43	74.8	ng	3961360	3	10.85	1059790	20.0
Naphthalene, 2,7-...	10.47	78.3	ng	4149620	3	10.85	1059790	20.0
Pentadecane, 7-me...	10.55	89.6	ng	4747940	3	10.85	1059790	20.0
Naphthalene, 2-(1...	10.99	49.8	ng	2636280	3	10.85	1059790	20.0
Naphthalene, 1,4,...	11.11	108.5	ng	5749230	3	10.85	1059790	20.0
Octadecane, 1-iodo-	11.21	52.8	ng	2798270	3	10.85	1059790	20.0
Naphthalene, 2,3,...	11.36	89.1	ng	4723720	3	10.85	1059790	20.0
Hexadecane	11.45	124.3	ng	6588670	3	10.85	1059790	20.0
Heptacosane	11.71	112.8	ng	5979630	3	10.85	1059790	20.0
Dodecane	12.03	217.8	ng	10884400	4	12.69	999390	20.0
4,4'-Dimethylbiph...	12.25	74.5	ng	3723590	4	12.69	999390	20.0
Dodecane, 1-iodo-	12.59	105.8	ng	5284980	4	12.69	999390	20.0
Hexadecane, 2,6,1...	12.63	78.4	ng	3917740	4	12.69	999390	20.0
Dodecane, 2-methy...	13.12	124.8	ng	6237230	4	12.69	999390	20.0
Nonadecane	13.63	96.3	ng	4813130	4	12.69	999390	20.0
Phenanthrene, 2,5...	14.00	51.0	ng	2547900	4	12.69	999390	20.0
Heneicosane	14.11	130.0	ng	6495110	4	12.69	999390	20.0
Tridecane, 6-propyl-	14.58	59.2	ng	4216170	5	15.97	1424410	20.0