

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
 Data File : BF096880.D
 Acq On : 19 Jul 2017 20:00
 Operator : SJ/JU
 Sample : I4244-01 20X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENNSYLVANIA-ANALYTICAL

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-BF071317.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	5.840	651	655	661	rVB2	385187	496229	5.73%	0.276%
2	6.098	697	699	703	rVV3	324495	492845	5.69%	0.274%
3	6.134	703	705	711	rVB2	388952	492224	5.69%	0.274%
4	6.193	711	715	719	rBV	581619	545797	6.31%	0.304%
5	6.446	754	758	762	rVB	1959669	1819606	21.02%	1.013%
6	6.587	778	782	785	rVV2	690198	668489	7.72%	0.372%
7	6.622	785	788	791	rVB2	971205	806206	9.31%	0.449%
8	6.751	807	810	818	rVB4	550784	1135048	13.11%	0.632%
9	6.875	828	831	836	rVB2	743152	1004214	11.60%	0.559%
10	6.916	836	838	841	rBV2	1235663	1104698	12.76%	0.615%
11	6.951	841	844	848	rVB	763912	697506	8.06%	0.388%
12	6.993	848	851	854	rBV2	1030088	1176663	13.59%	0.655%
13	7.134	870	875	878	rBV3	999727	1228195	14.19%	0.684%
14	7.216	885	889	891	rVB	3611440	3360196	38.82%	1.870%
15	7.251	891	895	899	rVB3	842817	1023845	11.83%	0.570%
16	7.322	904	907	910	rVB3	796580	773132	8.93%	0.430%
17	7.369	910	915	917	rBV3	593342	696936	8.05%	0.388%
18	7.398	917	920	926	rVB2	1489612	1500890	17.34%	0.835%
19	7.516	933	940	942	rBV5	927379	1591597	18.39%	0.886%
20	7.545	942	945	948	rVB3	753454	769242	8.89%	0.428%
21	7.581	948	951	954	rBV3	624109	812464	9.39%	0.452%
22	7.616	954	957	960	rVB3	1847045	1932754	22.33%	1.076%
23	7.651	960	963	967	rVB2	1711005	1825195	21.08%	1.016%
24	7.692	967	970	972	rBV	1372527	1387593	16.03%	0.772%
25	7.716	972	974	977	rVB2	1074594	1025581	11.85%	0.571%
26	7.757	977	981	983	rBV	539214	528137	6.10%	0.294%
27	7.845	989	996	998	rBV3	1035579	1631207	18.84%	0.908%
28	7.887	998	1003	1006	rBV2	3839847	5618629	64.91%	3.128%
29	7.963	1013	1016	1019	rBV	1924742	1661429	19.19%	0.925%
30	8.063	1027	1033	1034	rBV4	853184	1258921	14.54%	0.701%
31	8.187	1048	1054	1056	rBV4	957733	1401528	16.19%	0.780%
32	8.216	1056	1059	1061	rVB2	859340	923437	10.67%	0.514%
33	8.245	1061	1064	1066	rBV3	1230701	1067372	12.33%	0.594%
34	8.281	1066	1070	1074	rVB4	1434466	1832117	21.16%	1.020%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	8.328	1074	1078	1081	rBV2	2894783	3293608	38.05%	1.833%
36	8.387	1085	1088	1092	rVB2	1606684	1602106	18.51%	0.892%
37	8.434	1092	1096	1100	rBV3	523752	831590	9.61%	0.463%
38	8.504	1100	1108	1111	rBV2	4710615	6969679	80.52%	3.880%
39	8.545	1111	1115	1118	rVB2	941667	1135582	13.12%	0.632%
40	8.592	1119	1123	1126	rVB4	2212349	2783301	32.15%	1.549%
41	8.639	1126	1131	1132	rBV4	398202	562043	6.49%	0.313%
42	8.698	1136	1141	1142	rBV	2041474	2539320	29.33%	1.414%
43	8.775	1151	1154	1156	rBV2	1062108	1133449	13.09%	0.631%
44	8.798	1156	1158	1161	rVV3	1221577	1330513	15.37%	0.741%
45	8.828	1161	1163	1166	rVV3	1228286	1328130	15.34%	0.739%
46	8.863	1166	1169	1173	rVB2	1369955	1465774	16.93%	0.816%
47	8.904	1173	1176	1177	rBV3	1248264	1304746	15.07%	0.726%
48	8.928	1177	1180	1183	rVV2	2615766	2563040	29.61%	1.427%
49	9.075	1197	1205	1208	rBV2	4449708	7904083	91.31%	4.400%
50	9.110	1208	1211	1214	rBV2	1100984	1141110	13.18%	0.635%
51	9.139	1214	1216	1218	rBV2	572293	528646	6.11%	0.294%
52	9.228	1226	1231	1237	rBV3	2274410	4334831	50.08%	2.413%
53	9.310	1237	1245	1247	rBV2	2764820	5147789	59.47%	2.866%
54	9.334	1247	1249	1251	rVB3	2010965	1652048	19.08%	0.920%
55	9.386	1251	1258	1260	rBV3	2239194	3549301	41.00%	1.976%
56	9.498	1273	1277	1279	rBV4	715965	900881	10.41%	0.501%
57	9.557	1284	1287	1289	rBV2	590713	582455	6.73%	0.324%
58	9.604	1289	1295	1297	rBV	4016307	6075314	70.18%	3.382%
59	9.634	1297	1300	1302	rVB2	1234849	1398056	16.15%	0.778%
60	9.751	1316	1320	1324	rVB2	1387221	2283626	26.38%	1.271%
61	9.834	1329	1334	1335	rVV2	1311286	2091484	24.16%	1.164%
62	9.851	1335	1337	1339	rVV3	1849363	1637767	18.92%	0.912%
63	9.886	1339	1343	1345	rVV2	1439071	1745245	20.16%	0.971%
64	9.916	1345	1348	1351	rVB3	2287806	2229049	25.75%	1.241%
65	9.951	1351	1354	1358	rBV2	1265044	1898532	21.93%	1.057%
66	9.986	1358	1360	1362	rVB	1049296	873682	10.09%	0.486%
67	10.039	1366	1369	1372	rBV2	677864	1027539	11.87%	0.572%
68	10.104	1375	1380	1382	rVB	3779235	5023567	58.03%	2.796%
69	10.181	1391	1393	1395	rVB2	675870	505381	5.84%	0.281%
70	10.210	1395	1398	1401	rBV2	727009	866991	10.02%	0.483%
71	10.316	1410	1416	1418	rBV	2339553	3423767	39.55%	1.906%

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Sampling : 1 Min Area: 3 % of largest Peak
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Stop Thrs : 0 Peak Location: TOP

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72	10.357	1421	1423	1426	rVB	1148181	1052364	12.16%	0.586%
73	10.392	1426	1429	1431	rBV	1455499	1542168	17.82%	0.858%
74	10.422	1431	1434	1438	rVB5	1357023	1940969	22.42%	1.080%
75	10.463	1438	1441	1444	rBV4	737430	882097	10.19%	0.491%
76	10.575	1454	1460	1467	rBV2	3674620	8656372	100.00%	4.819%
77	10.763	1488	1492	1494	rBV2	1148422	1567629	18.11%	0.873%
78	10.786	1494	1496	1498	rVV2	934748	712497	8.23%	0.397%
79	10.816	1499	1501	1503	rVB3	862081	695389	8.03%	0.387%
80	10.845	1503	1506	1508	rBV	1067340	968615	11.19%	0.539%
81	10.881	1510	1512	1516	rVB3	1052966	1180477	13.64%	0.657%
82	11.016	1530	1535	1537	rBV	3553662	4767260	55.07%	2.654%
83	11.045	1537	1540	1544	rVB	2602060	2819051	32.57%	1.569%
84	11.139	1553	1556	1560	rBV3	1026668	1019960	11.78%	0.568%
85	11.275	1577	1579	1582	rVB2	643741	569986	6.58%	0.317%
86	11.310	1583	1585	1588	rVB	729378	563971	6.52%	0.314%
87	11.380	1595	1597	1601	rVB	725234	728406	8.41%	0.405%
88	11.439	1602	1607	1610	rBV	3415577	4223968	48.80%	2.351%
89	11.616	1634	1637	1639	rVV	741439	811263	9.37%	0.452%
90	11.645	1639	1642	1646	rVB2	1014507	1132072	13.08%	0.630%
91	11.722	1652	1655	1658	rBV2	864567	1082850	12.51%	0.603%
92	11.839	1671	1675	1679	rVB	3228202	3613641	41.75%	2.012%
93	11.980	1696	1699	1705	rVB4	536370	743855	8.59%	0.414%
94	12.110	1719	1721	1724	rVB	751620	593243	6.85%	0.330%
95	12.163	1726	1730	1733	rVV2	881153	1068939	12.35%	0.595%
96	12.216	1736	1739	1742	rVV	2907281	2859394	33.03%	1.592%
97	12.586	1798	1802	1804	rVB	1671242	1580227	18.26%	0.880%
98	12.933	1858	1861	1864	rVB	1357404	1182005	13.65%	0.658%
99	13.274	1915	1919	1922	rBV	684079	636239	7.35%	0.354%
100	13.722	1991	1995	1998	rBV	560638	496545	5.74%	0.276%

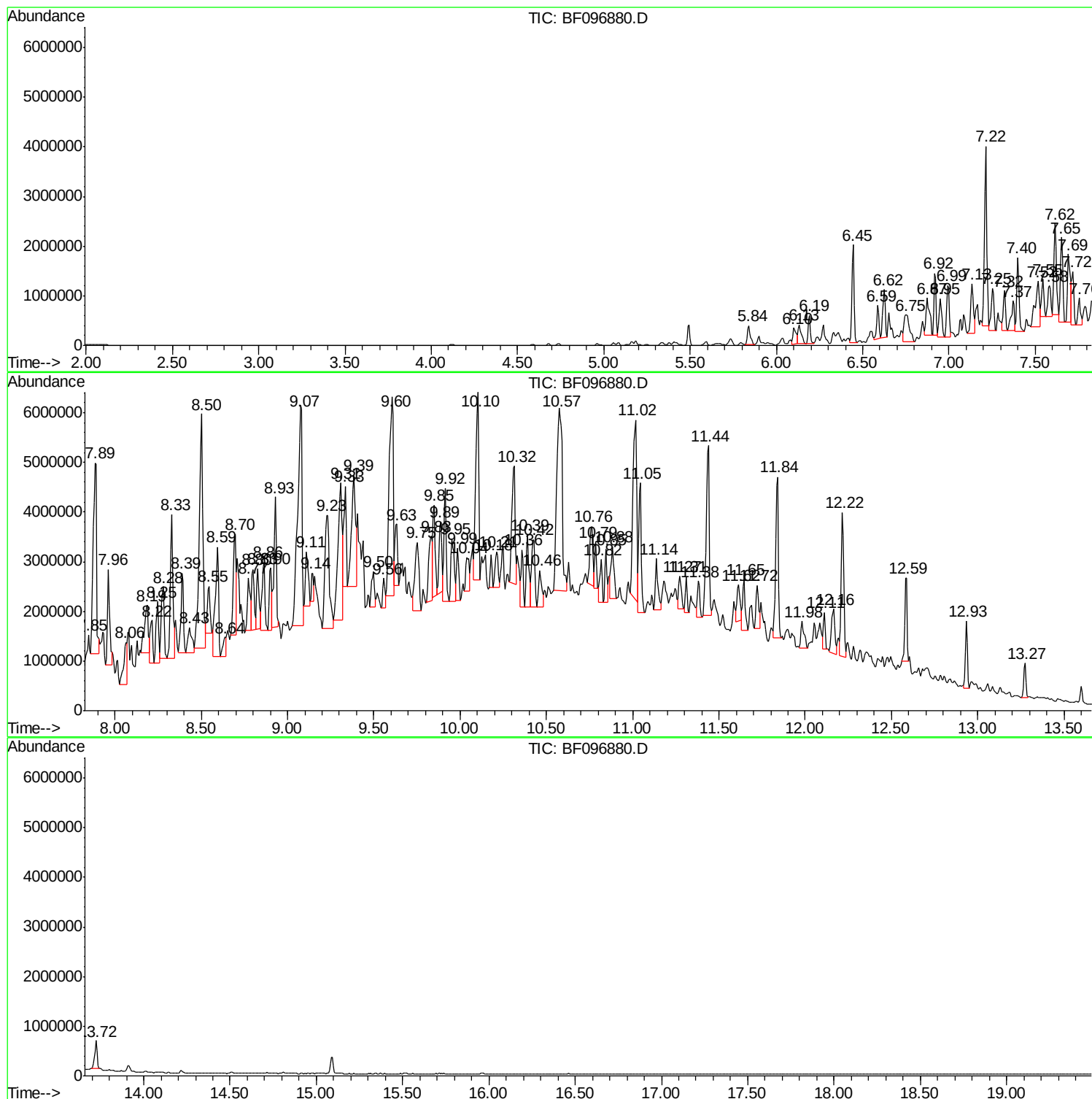
Sum of corrected areas: 179645399

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Instrument :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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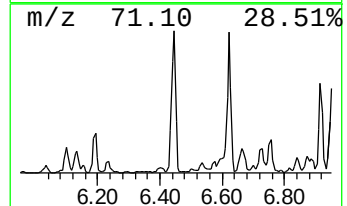
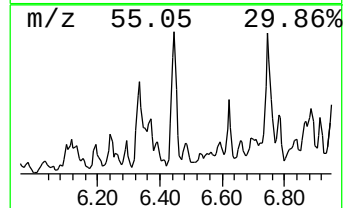
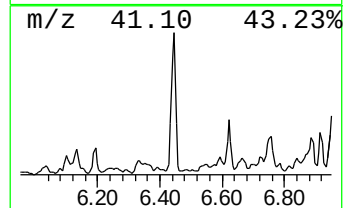
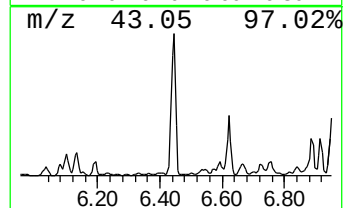
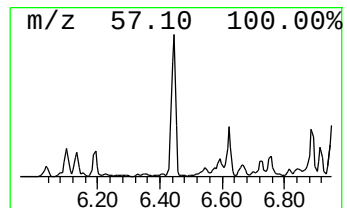
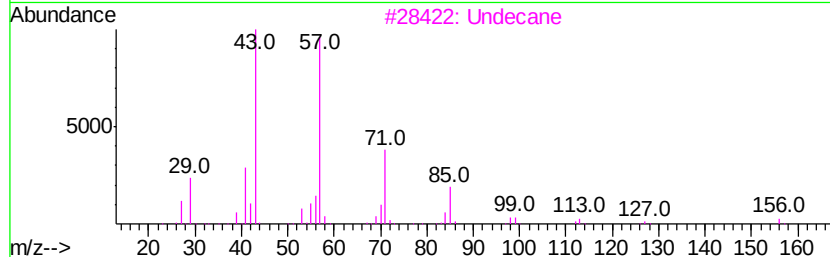
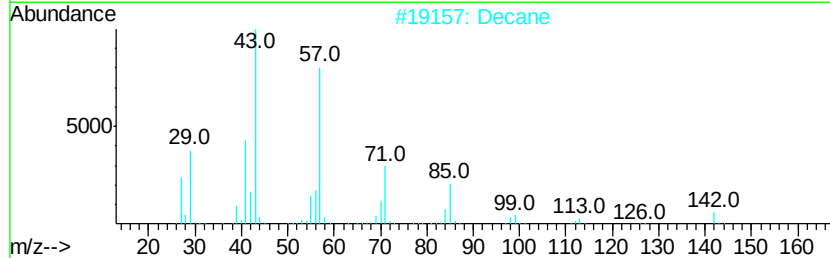
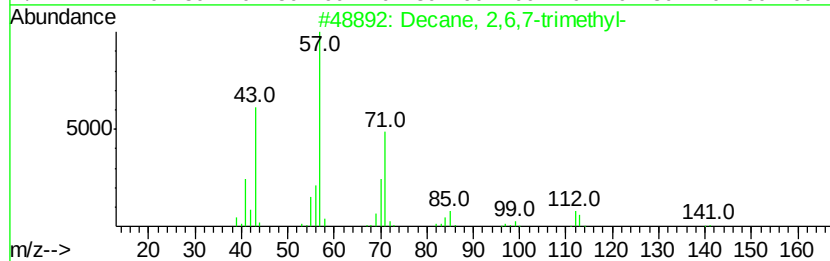
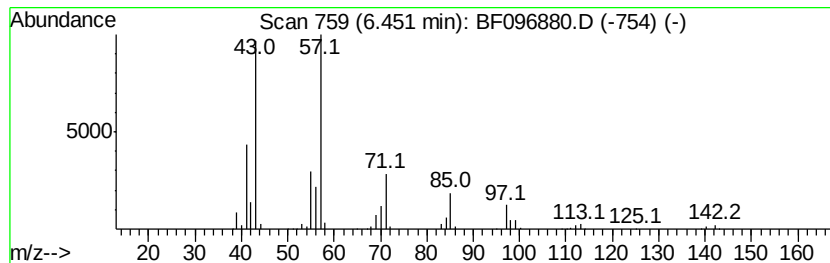
Instrument :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Decane, 2,6,7-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
6.45	54.44 ng	1819610	1,4-Dichlorobenzene-d4	6.59	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,6,7-trimethyl-	184	C13H28	062108-25-2	86
2	Decane	142	C10H22	000124-18-5	83
3	Undecane	156	C11H24	001120-21-4	78
4	Nonane, 2-methyl-	142	C10H22	000871-83-0	72
5	Oxalic acid, isobutyl pentyl ester	216	C11H20O4	1000309-37-0	72



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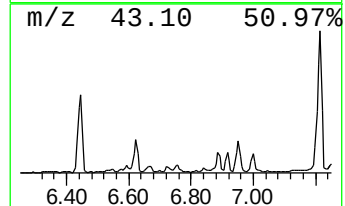
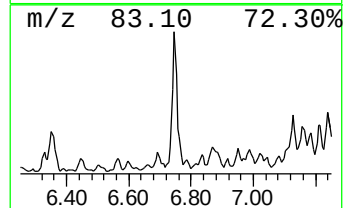
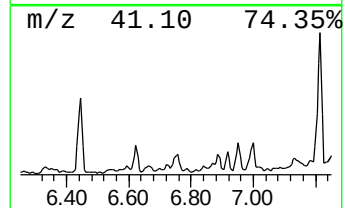
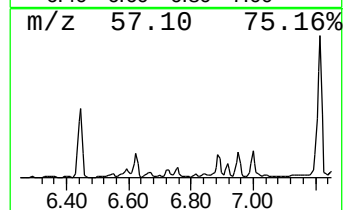
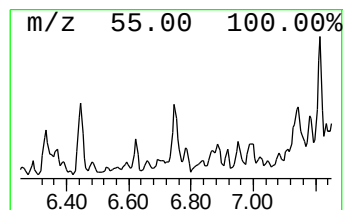
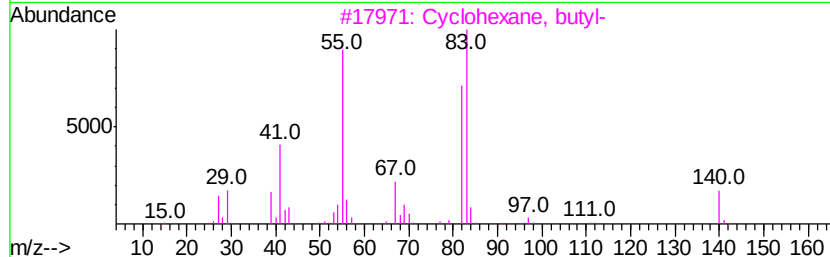
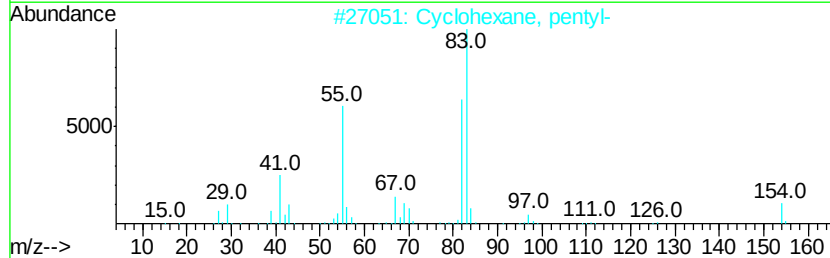
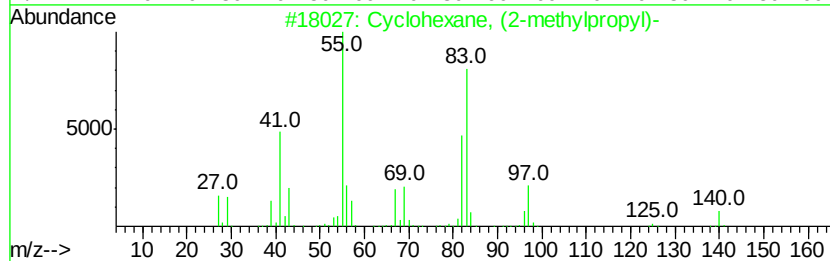
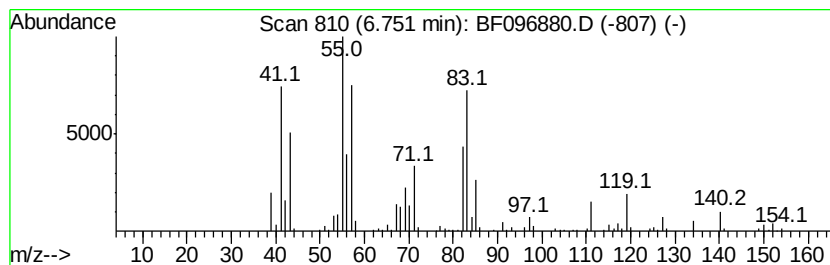
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown6.75 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.75	33.96 ng	1135050	1,4-Dichlorobenzene-d4	6.59

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	46
2		Cyclohexane, pentyl-	154	C11H22	004292-92-6	35
3		Cyclohexane, butyl-	140	C10H20	001678-93-9	30
4		trans-4-Decene	140	C10H20	019398-89-1	30
5		Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	27



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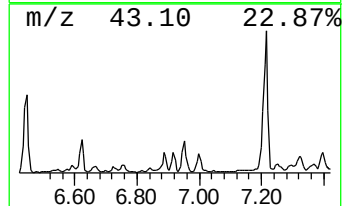
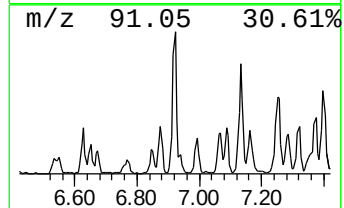
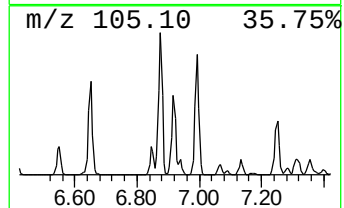
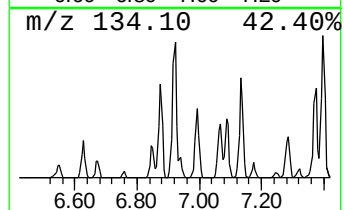
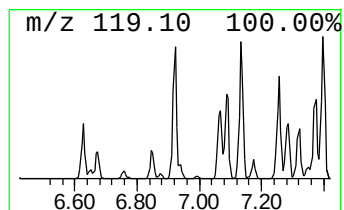
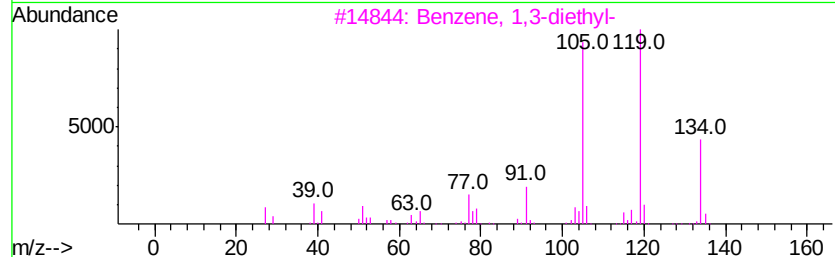
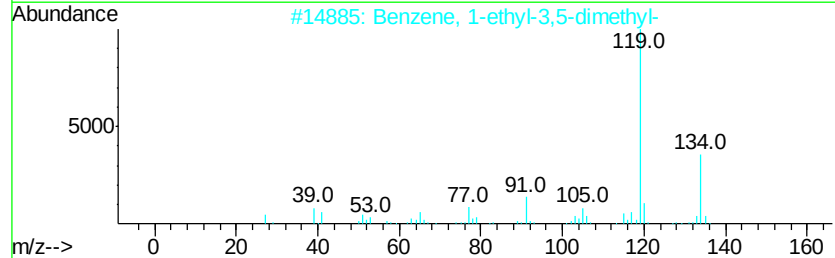
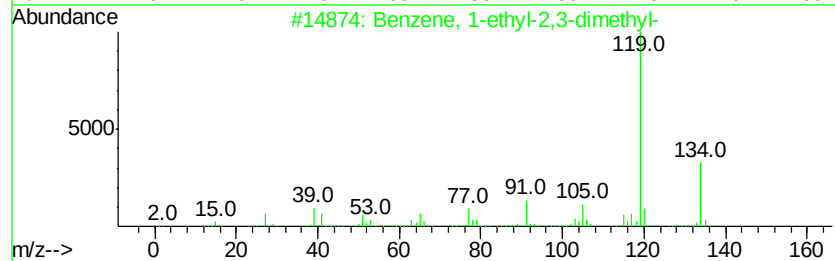
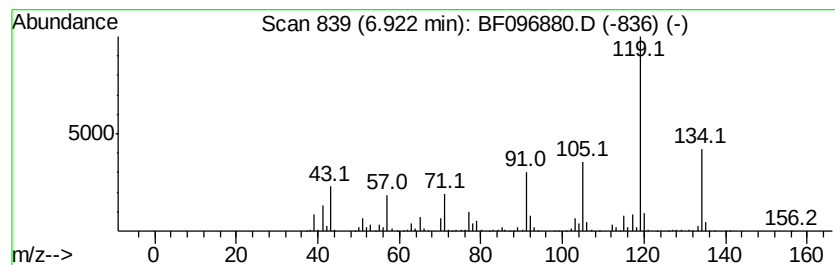
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.92	33.05 ng	1104700	1,4-Dichlorobenzene-d4	6.59

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93
2		Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	89
3		Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	89
4		Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	89
5		Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	86



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
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Operator : SJ/JU
Sample : I4244-01 20X
Misc :
ALS Vial : 13 Sample Multiplier: 1

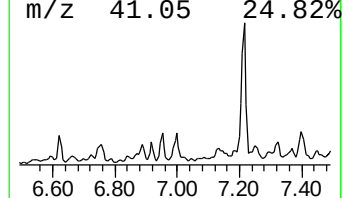
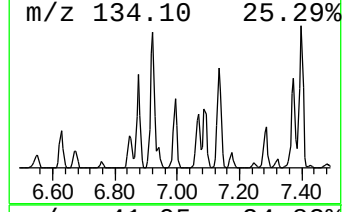
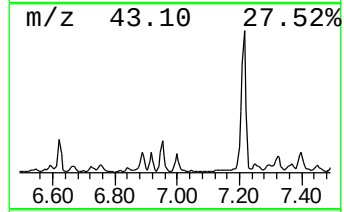
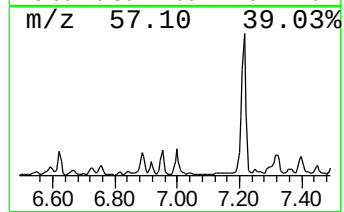
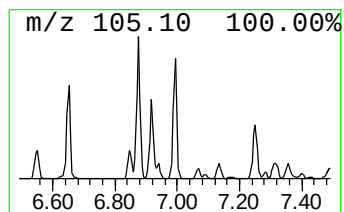
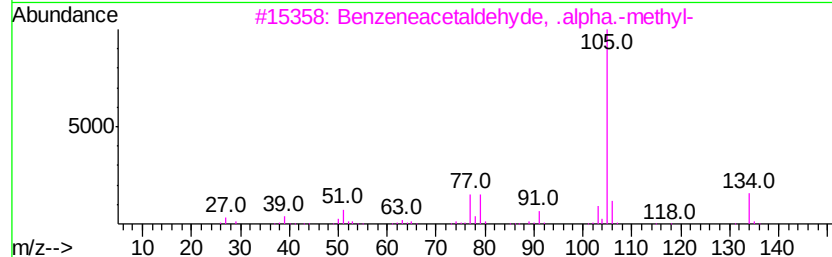
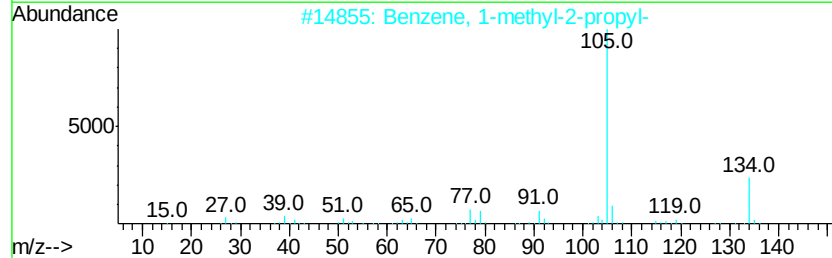
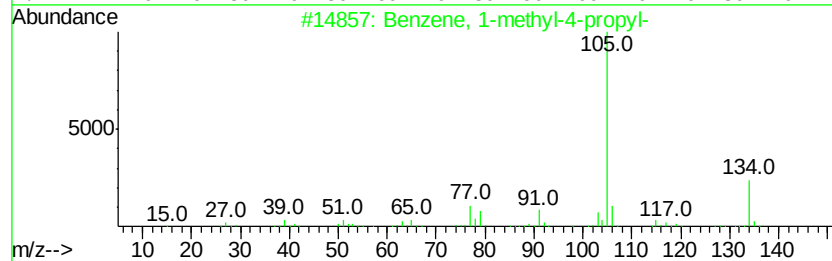
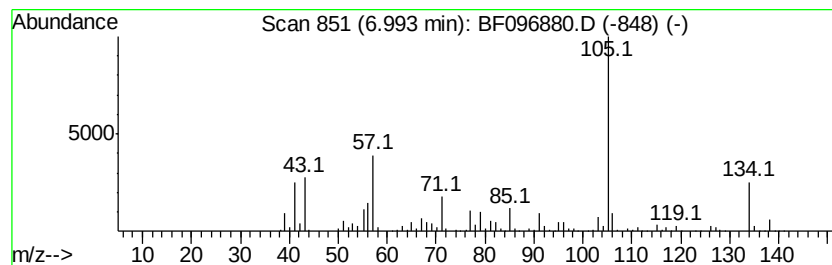
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Benzene, 1-methyl-4-propyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.	
6.99	35.20 ng	1176660	1,4-Dichlorobenzene-d4	6.59	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	93
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	93
3	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	70
4	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	64
5	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
Data File : BF096880.D
Acq On : 19 Jul 2017 20:00
Operator : SJ/JU
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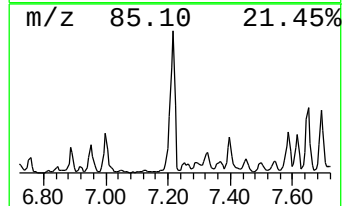
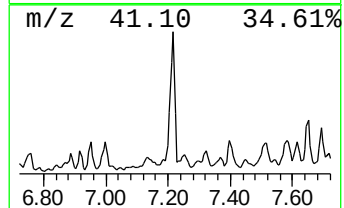
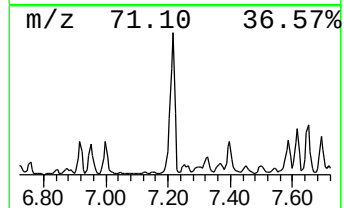
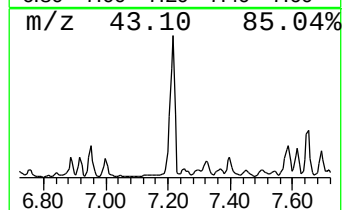
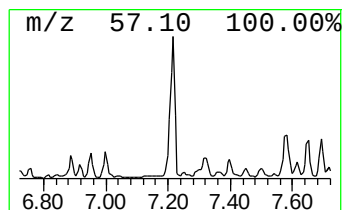
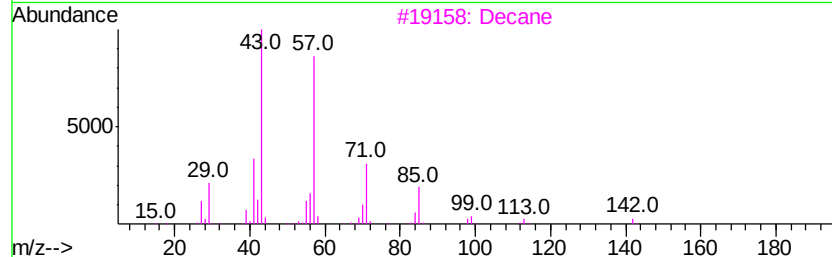
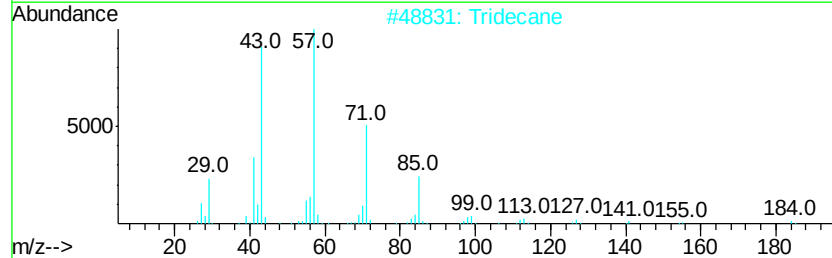
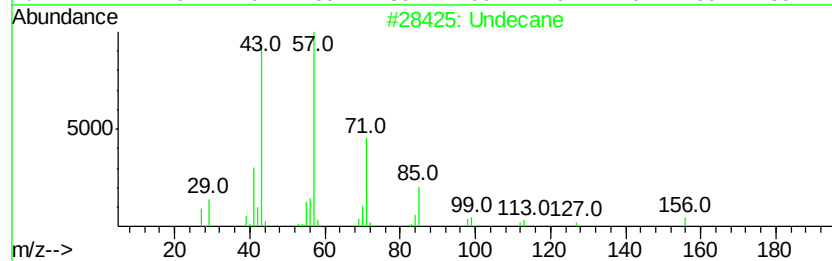
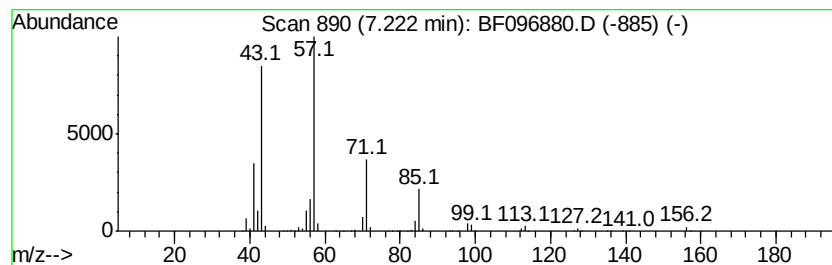
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Undecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.22	100.53 ng	3360200	1,4-Dichlorobenzene-d4	6.59

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Undecane	156	C11H24	001120-21-4	83
2		Tridecane	184	C13H28	000629-50-5	83
3		Decane	142	C10H22	000124-18-5	78
4		Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	72
5		Decane, 2,9-dimethyl-	170	C12H26	001002-17-1	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
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Operator : SJ/JU
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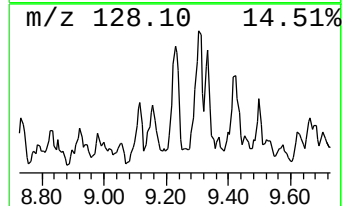
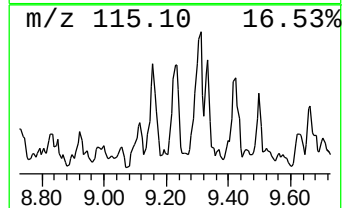
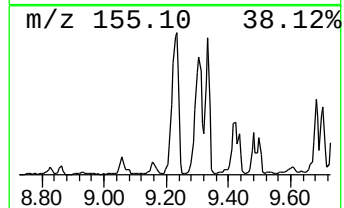
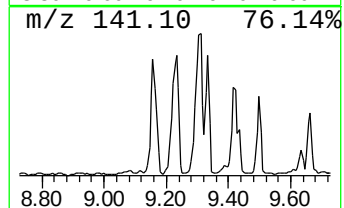
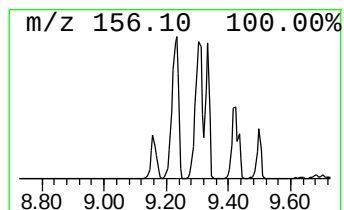
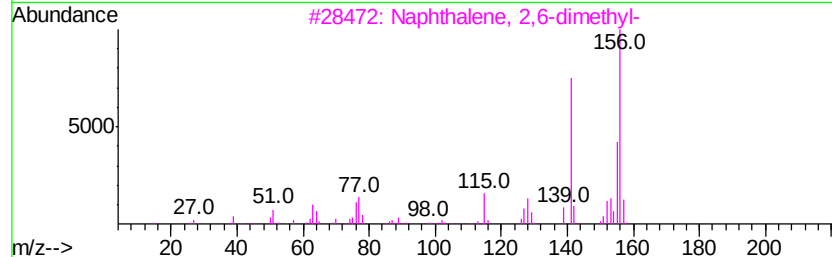
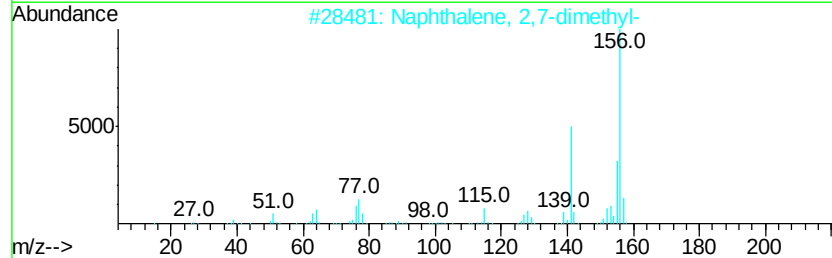
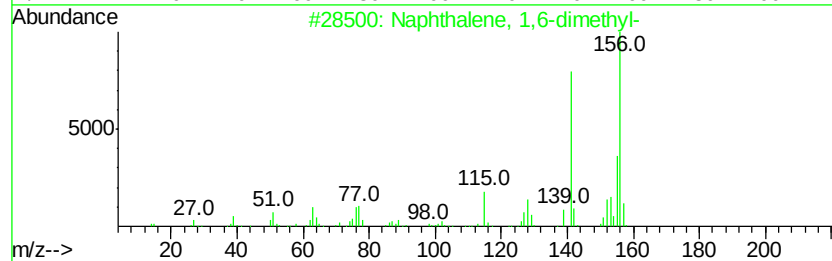
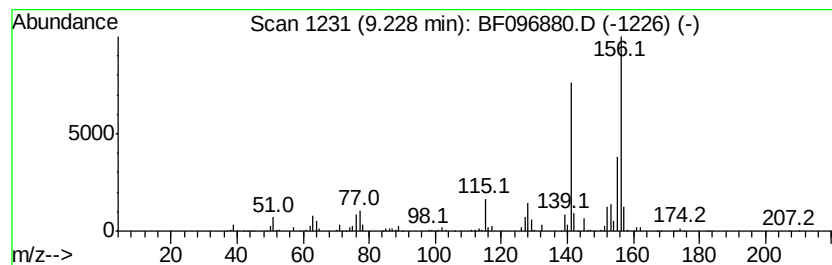
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 1,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.23	62.01 ng	4334830	Acenaphthene-d10	9.63
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 98
2		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 97
3		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 97
4		Naphthalene, 1,5-dimethyl-	156 C12H12	000571-61-9 97
5		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 96



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
Data File : BF096880.D
Acq On : 19 Jul 2017 20:00
Operator : SJ/JU
Sample : I4244-01 20X
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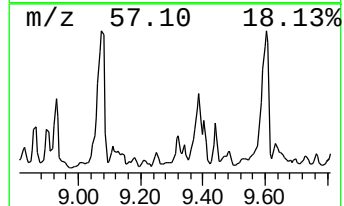
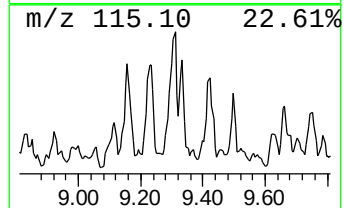
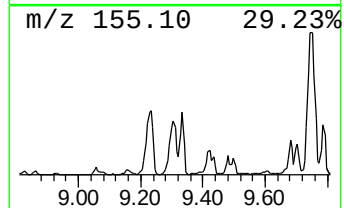
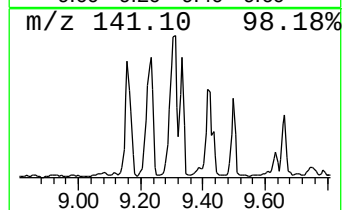
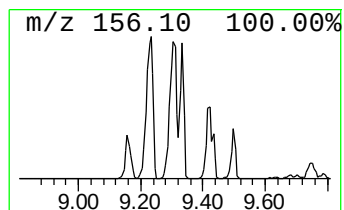
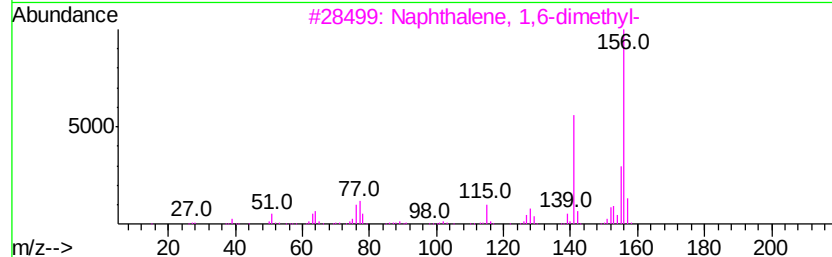
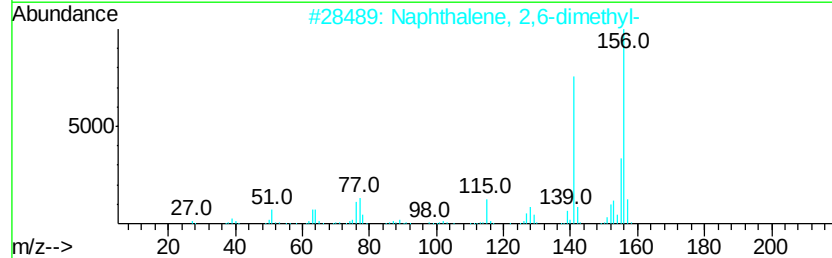
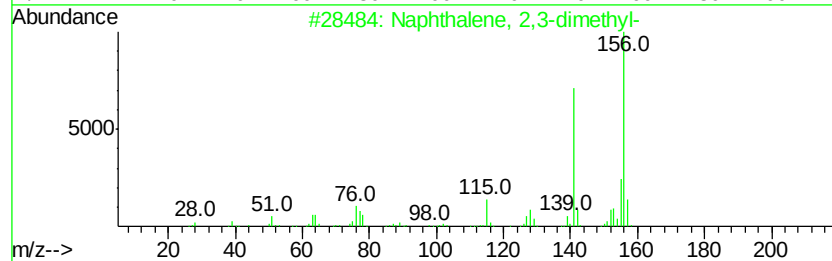
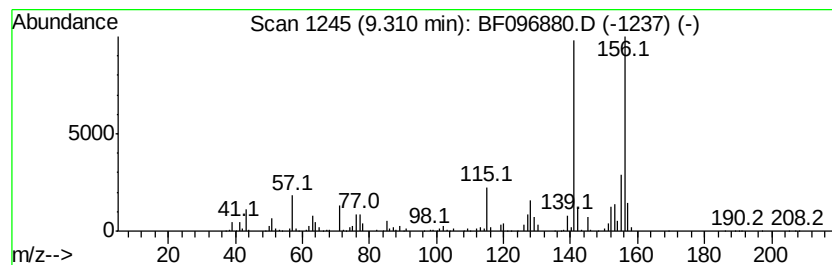
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphthalene, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.31	73.64 ng	5147790	Acenaphthene-d10	9.63

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
3		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4		Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	96
5		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
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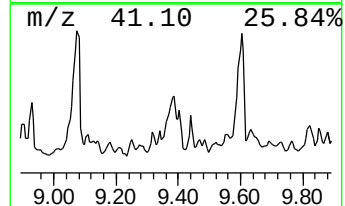
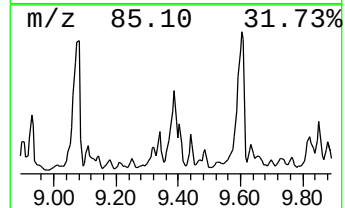
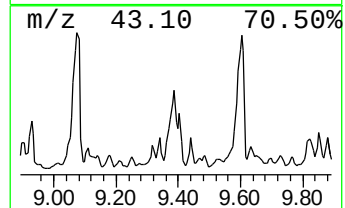
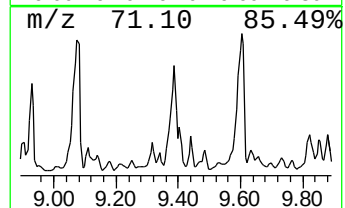
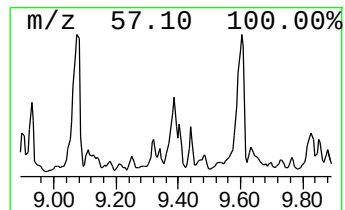
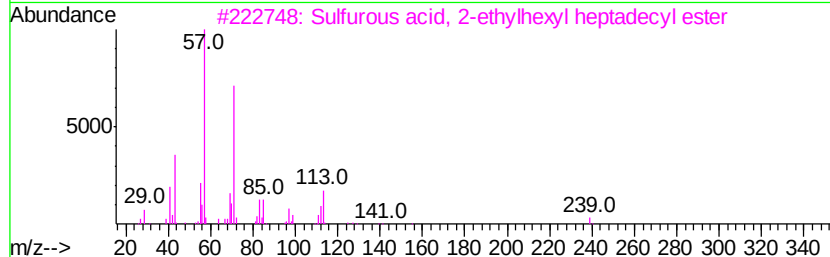
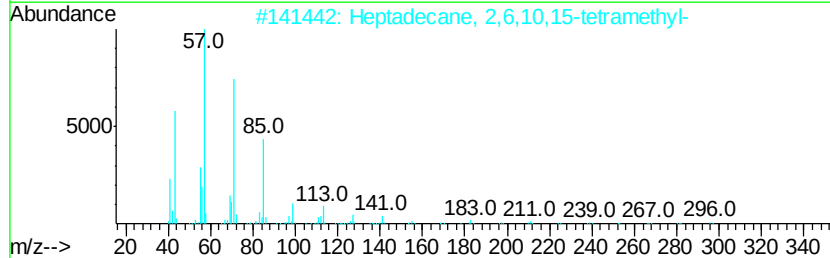
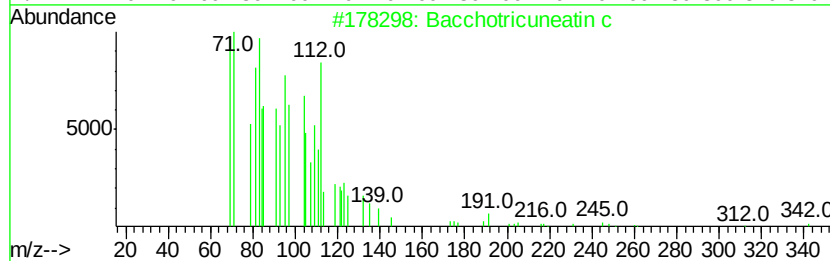
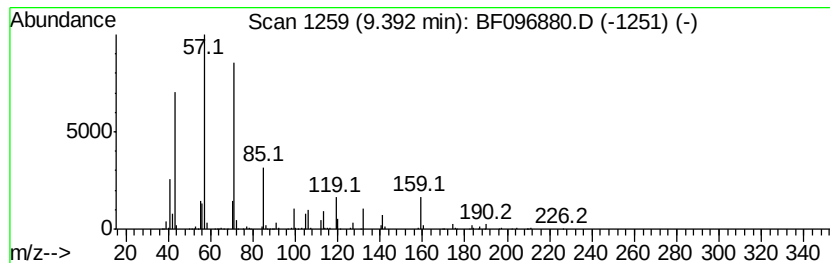
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Bacchotricuneatin c Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.39	50.77 ng	3549300	Acenaphthene-d10	9.63

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Bacchotricuneatin c	342	C20H22O5	066563-30-2	93
2		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	90
3		Sulfurous acid, 2-ethylhexyl hep...	432	C25H52O3S	1000309-20-0	72
4		Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	72
5		Octane, 2,3,6-trimethyl-	156	C11H24	062016-33-5	72



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
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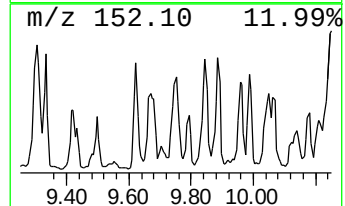
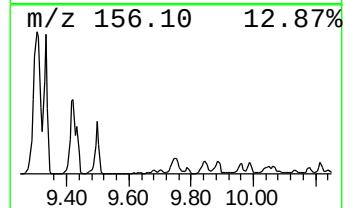
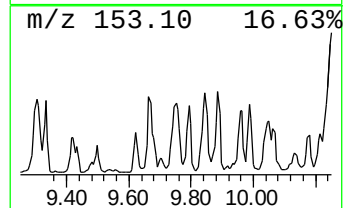
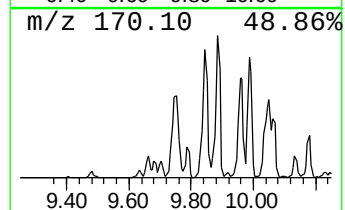
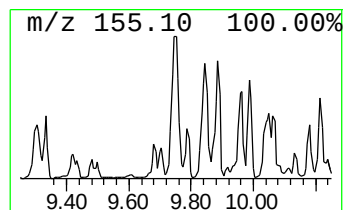
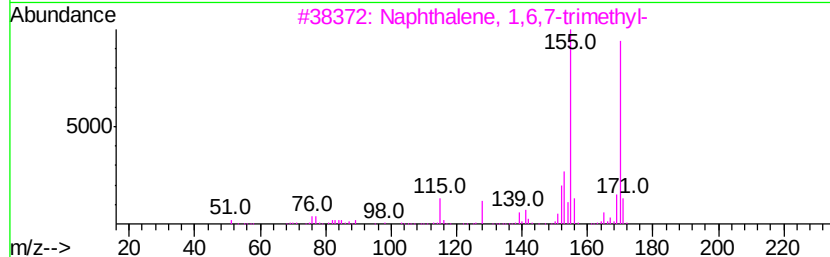
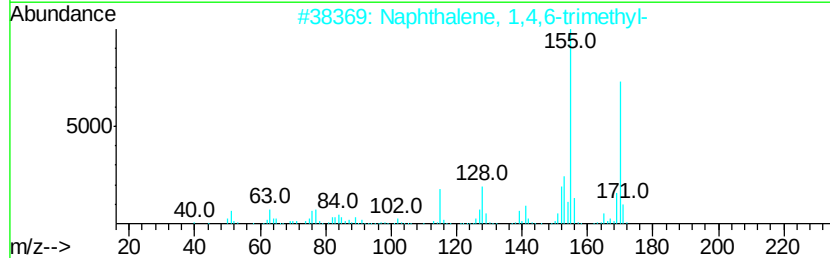
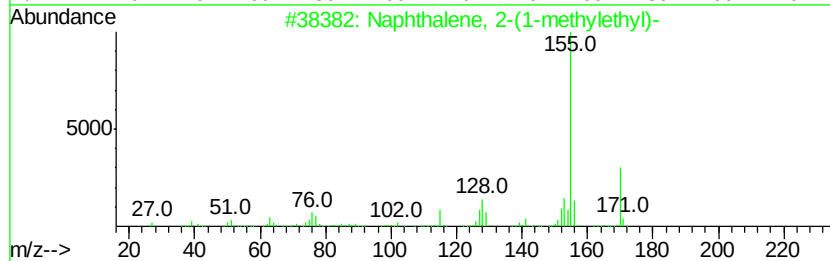
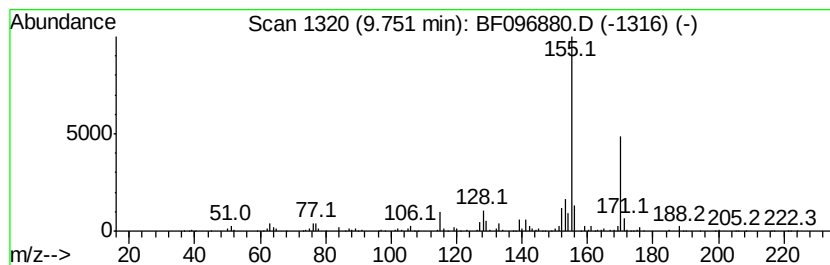
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Naphthalene, 2-(1-methyleth... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	32.67 ng	2283630	Acenaphthene-d10	9.63

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	94
2		Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	93
3		Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	76
4		3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	72
5		Ethanone, 1-(1-Naphthalenyl)-	170	C12H10O	000941-98-0	72



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
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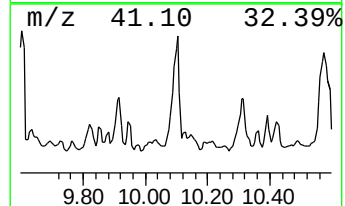
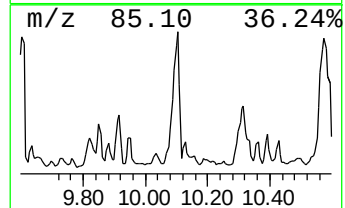
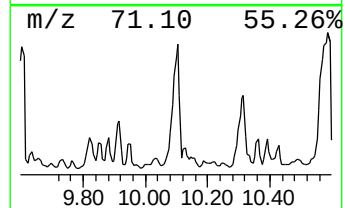
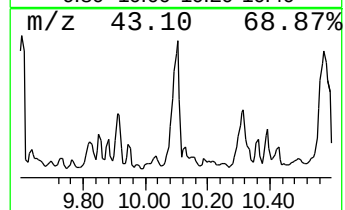
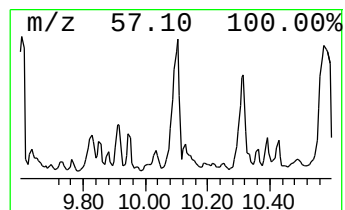
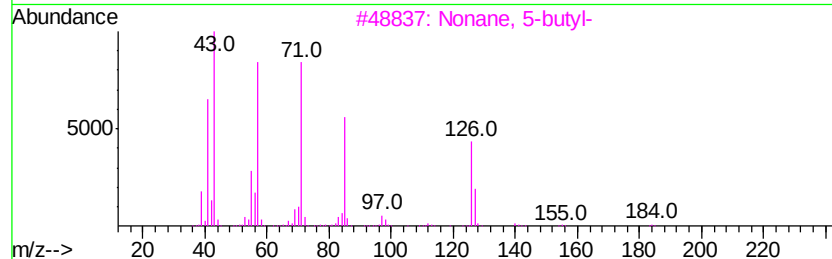
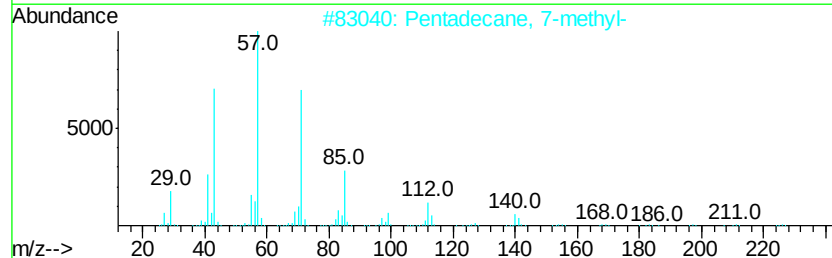
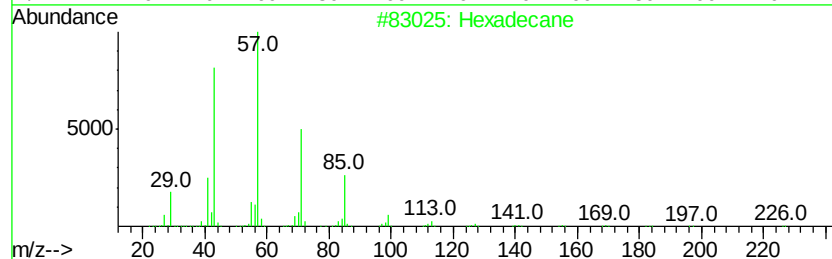
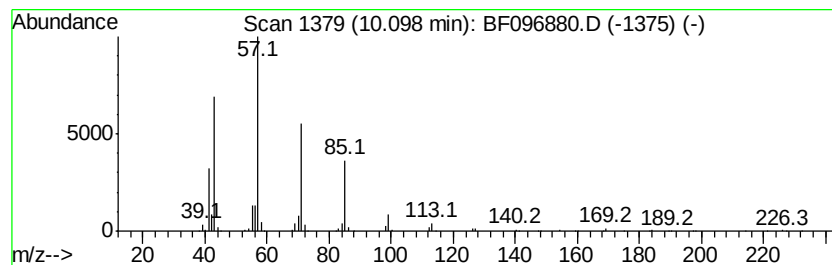
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Hexadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.10	71.87 ng	5023570	Acenaphthene-d10	9.63
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Hexadecane		226 C16H34	000544-76-3 91
2	Pentadecane, 7-methyl-		226 C16H34	006165-40-8 87
3	Nonane, 5-butyl-		184 C13H28	017312-63-9 81
4	Decane, 5-propyl-		184 C13H28	017312-62-8 80
5	Dodecane, 4-methyl-		184 C13H28	006117-97-1 72



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
Data File : BF096880.D
Acq On : 19 Jul 2017 20:00
Operator : SJ/JU
Sample : I4244-01 20X
Misc :
ALS Vial : 13 Sample Multiplier: 1

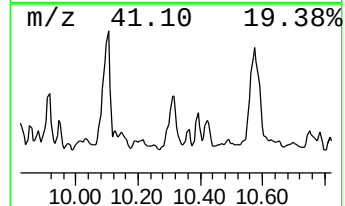
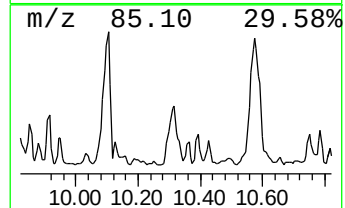
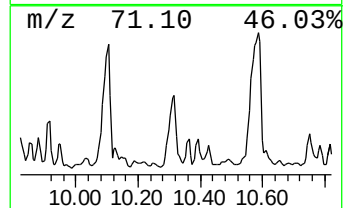
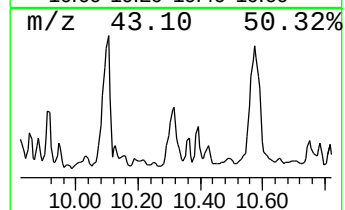
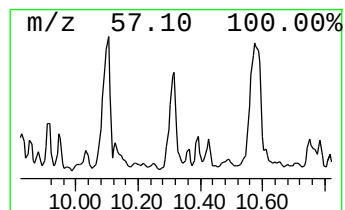
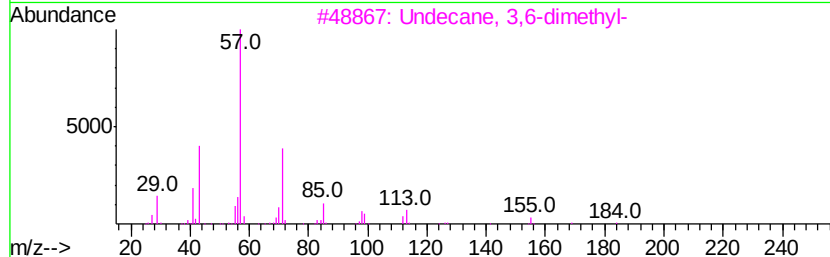
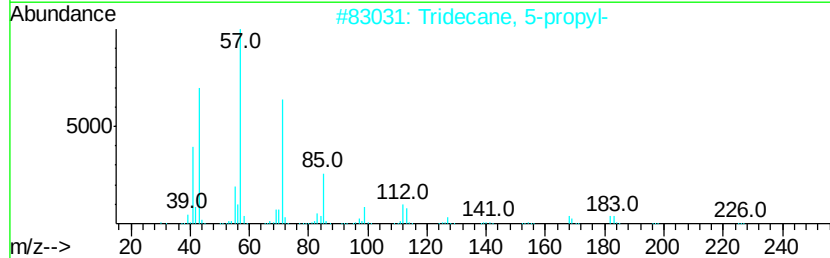
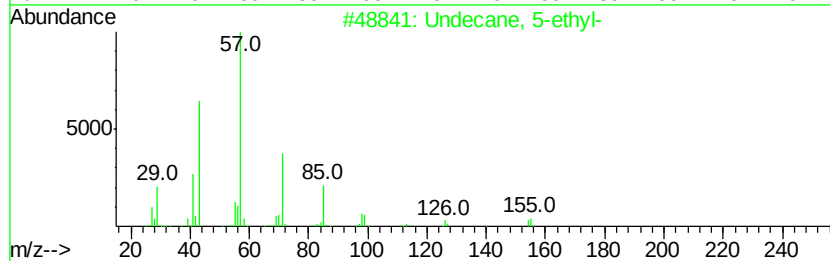
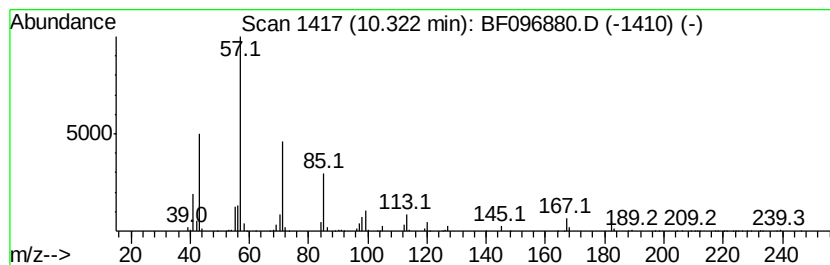
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Undecane, 5-ethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.
10.32	48.98 ng	3423770	Acenaphthene-d10		9.63
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5-ethyl-	184	C13H28	017453-94-0	78
2	Tridecane, 5-propyl-	226	C16H34	055045-11-9	74
3	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	72
4	Hentriacontane	437	C31H64	000630-04-6	72
5	Tridecane, 2-methyl-	198	C14H30	001560-96-9	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
Data File : BF096880.D
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ClientSampleId :
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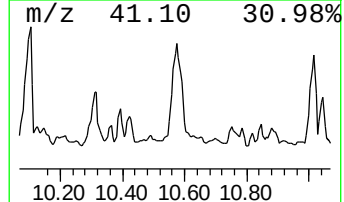
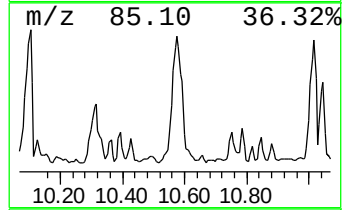
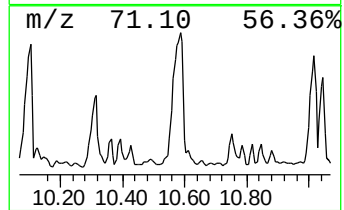
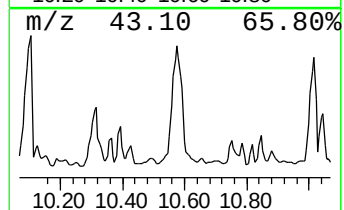
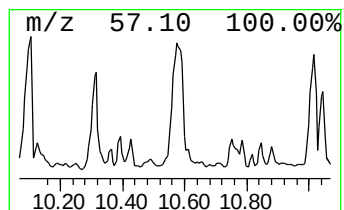
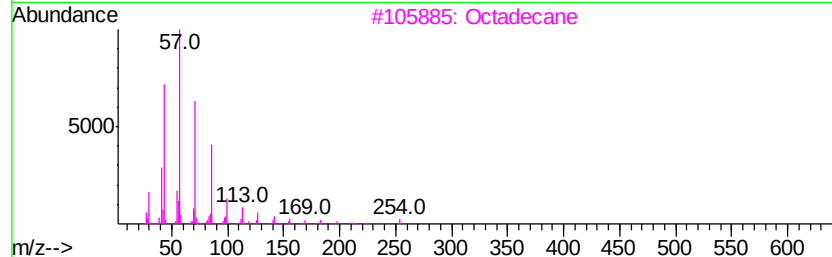
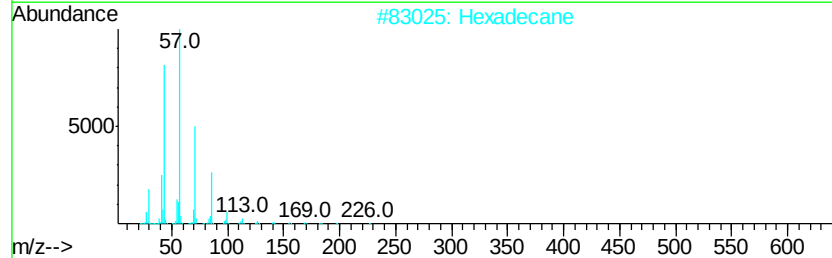
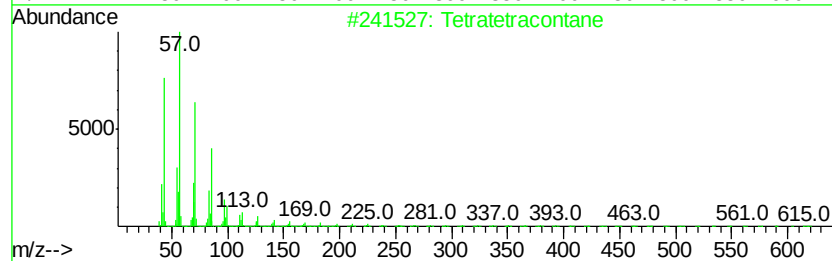
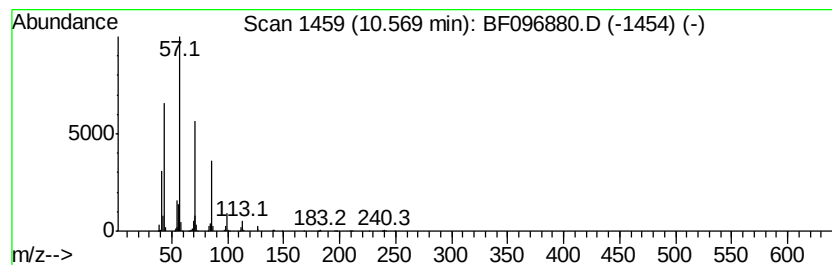
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Tetratetracontane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.57	169.74 ng	8656370	Phenanthrene-d10	11.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tetratetracontane	619	C44H90	007098-22-8	90
2		Hexadecane	226	C16H34	000544-76-3	86
3		Octadecane	254	C18H38	000593-45-3	83
4		Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	72
5		Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	59



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
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Acq On : 19 Jul 2017 20:00
Operator : SJ/JU
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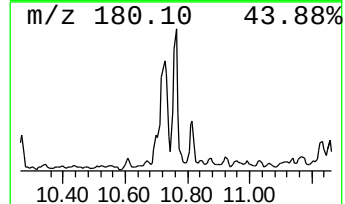
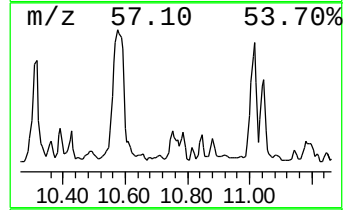
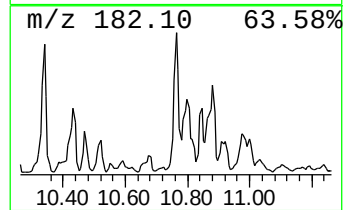
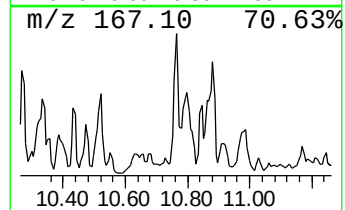
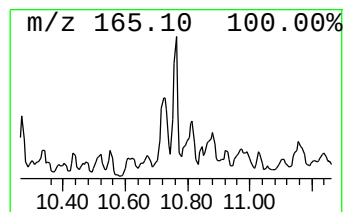
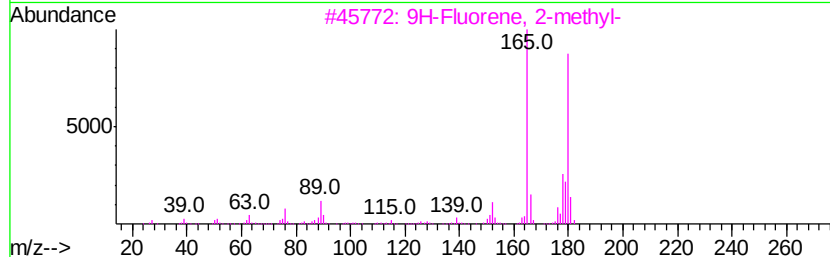
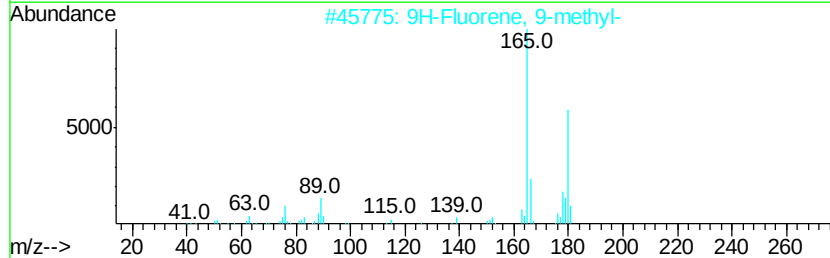
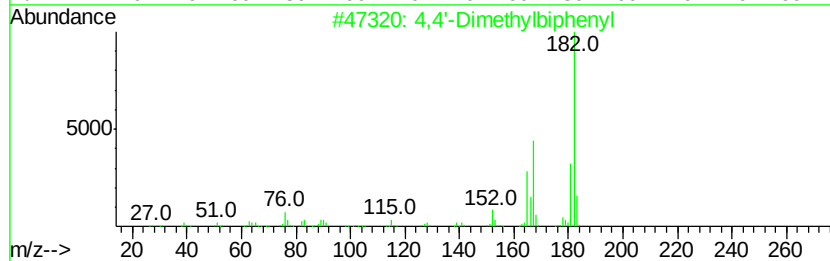
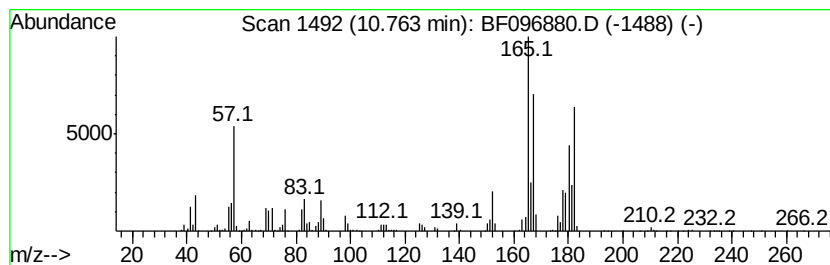
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 4,4'-Dimethylbiphenyl Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.76	30.74 ng	1567630	Phenanthrene-d10	11.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	60
2		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	55
3		9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	50
4		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	49
5		2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	46



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
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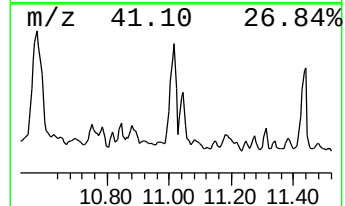
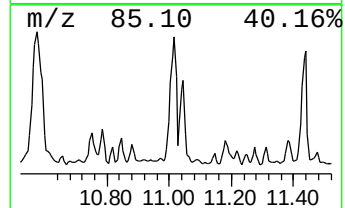
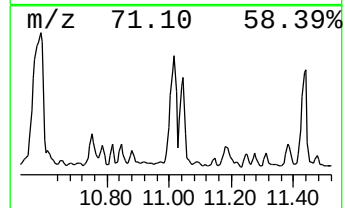
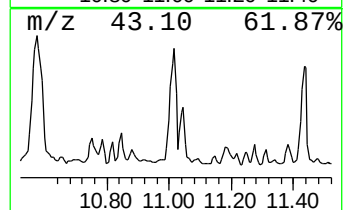
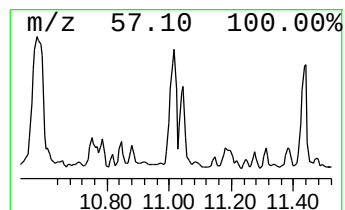
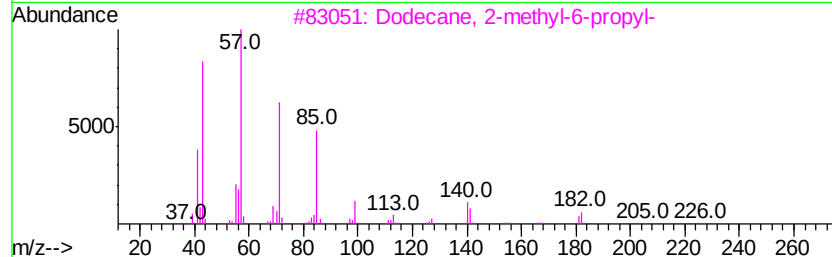
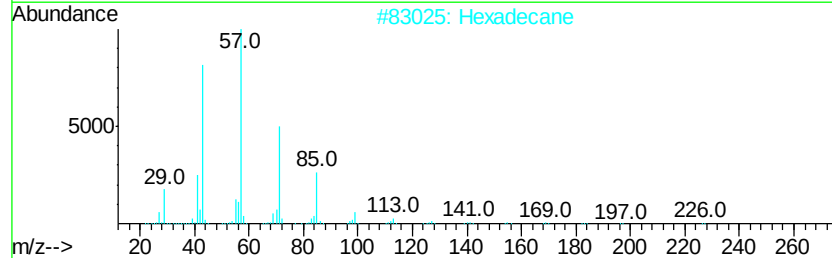
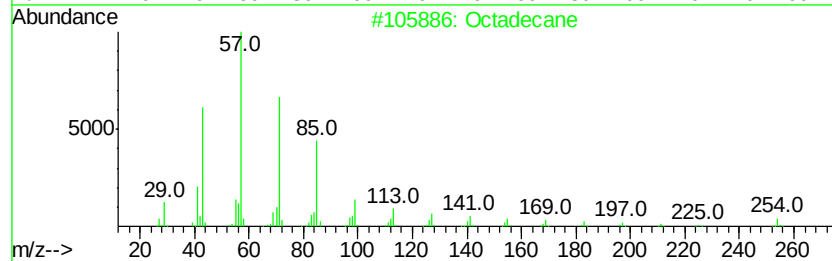
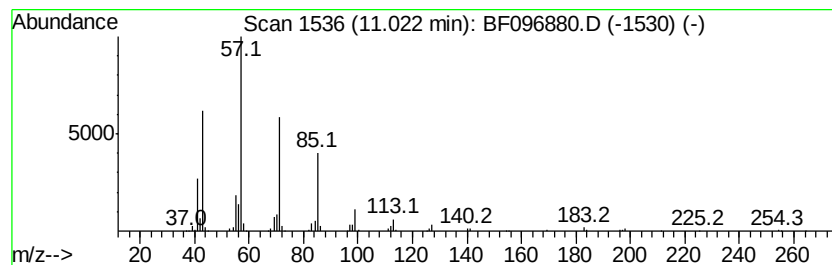
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Octadecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	93.48 ng	4767260	Phenanthrene-d10	11.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octadecane	254	C18H38	000593-45-3	91
2		Hexadecane	226	C16H34	000544-76-3	91
3		Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	90
4		Pentadecane	212	C15H32	000629-62-9	90
5		Tetratetracontane	619	C44H90	007098-22-8	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
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Acq On : 19 Jul 2017 20:00
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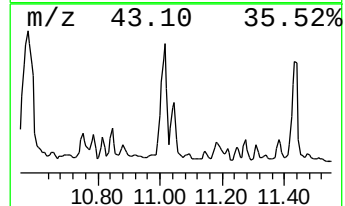
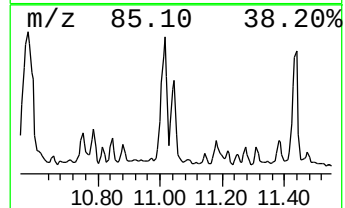
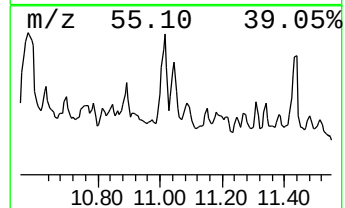
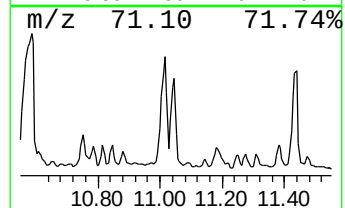
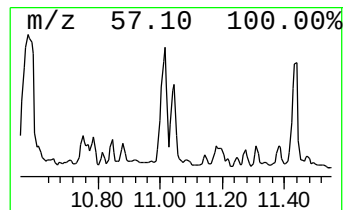
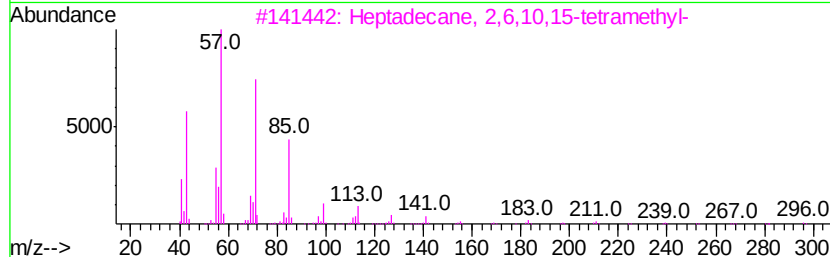
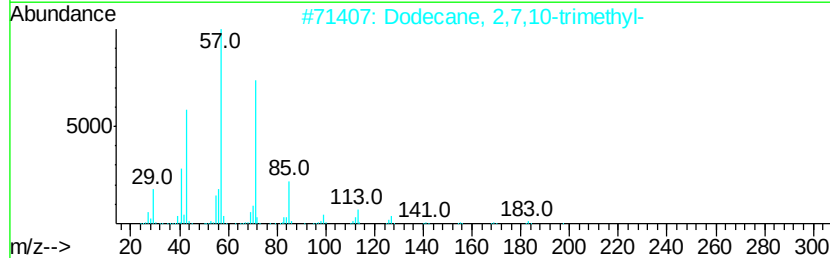
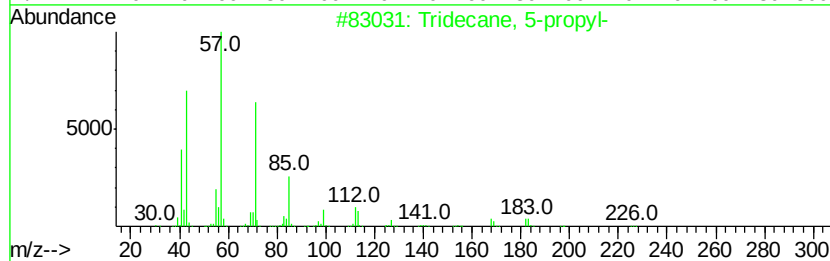
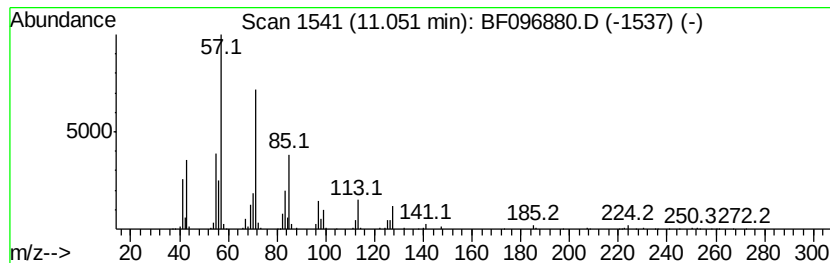
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Tridecane, 5-propyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.05	55.28 ng	2819050	Phenanthrene-d10	11.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tridecane, 5-propyl-	226	C16H34	055045-11-9	87
2		Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
3		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	83
4		Pentadecane, 7-methyl-	226	C16H34	006165-40-8	81
5		Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	80



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
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Acq On : 19 Jul 2017 20:00
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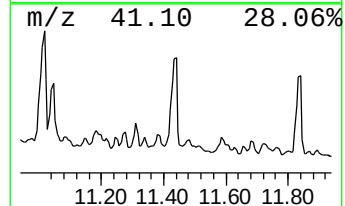
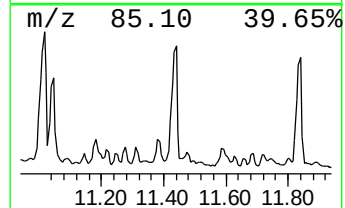
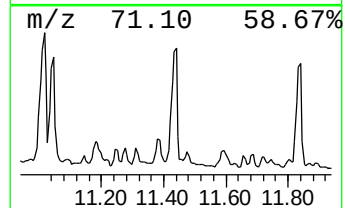
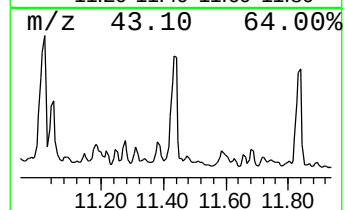
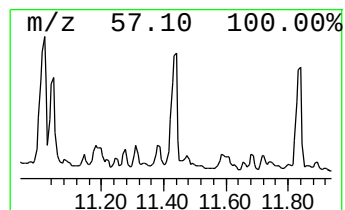
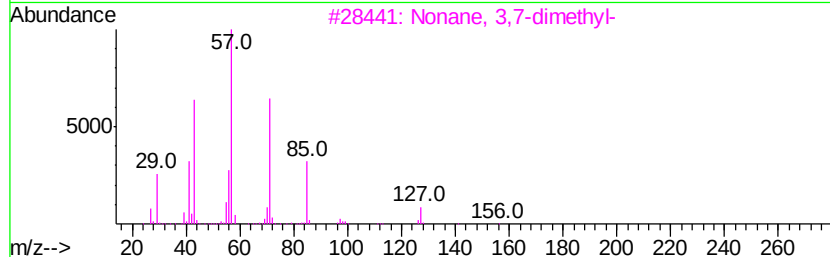
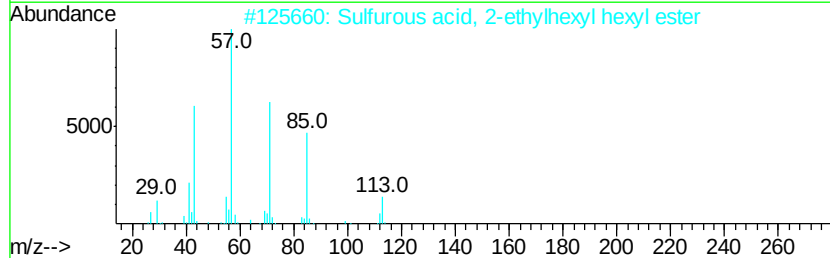
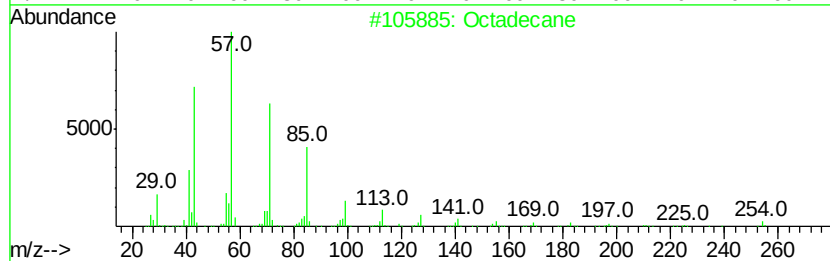
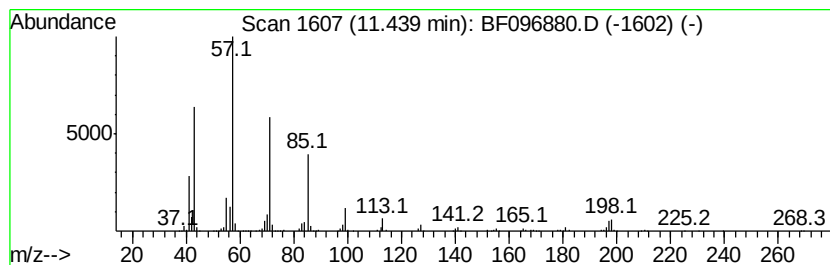
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Sulfurous acid, 2-ethylhexy... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.44	82.83 ng	4223970	Phenanthrene-d10	11.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octadecane	254	C18H38	000593-45-3	86
2		Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	59
3		Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	59
4		Sulfurous acid, 2-propyl tetradec...	320	C17H36O3S	1000309-12-5	59
5		Hexadecane	226	C16H34	000544-76-3	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
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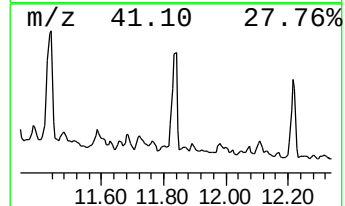
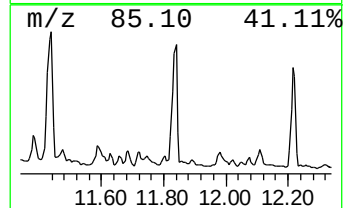
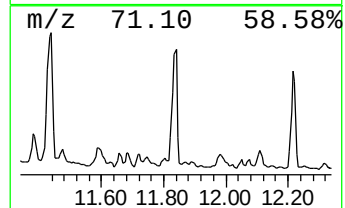
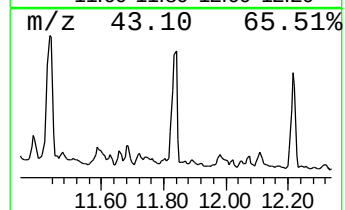
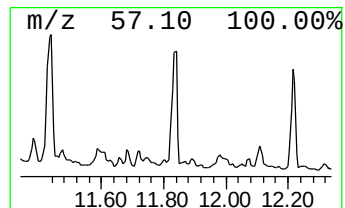
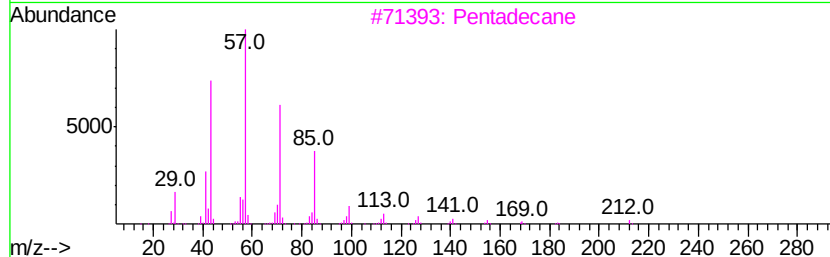
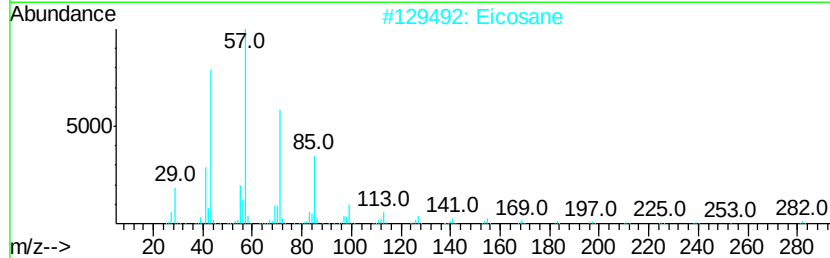
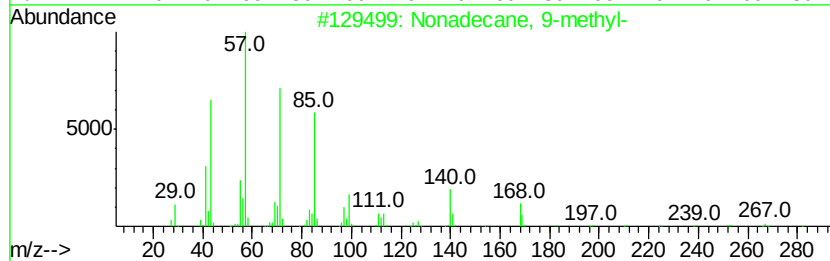
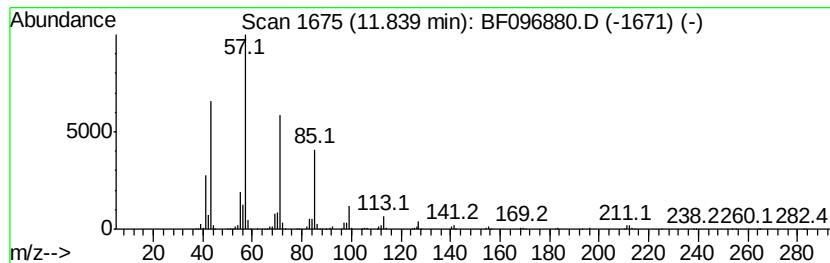
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Nonadecane, 9-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	70.86 ng	3613640	Phenanthrene-d10	11.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	91
2		Eicosane	282	C20H42	000112-95-8	91
3		Pentadecane	212	C15H32	000629-62-9	90
4		Hexadecane	226	C16H34	000544-76-3	90
5		Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
Data File : BF096880.D
Acq On : 19 Jul 2017 20:00
Operator : SJ/JU
Sample : I4244-01 20X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PENNSYLVANIA-ANALYTICAL

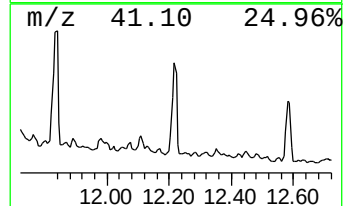
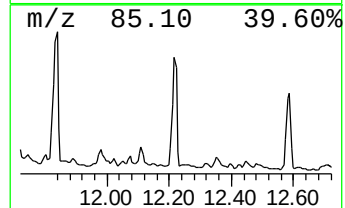
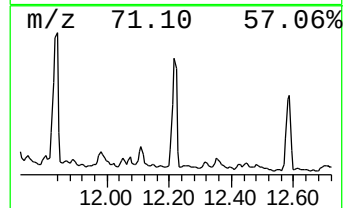
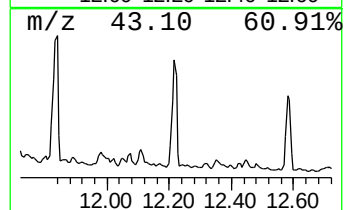
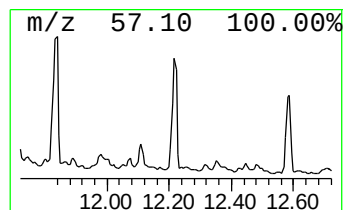
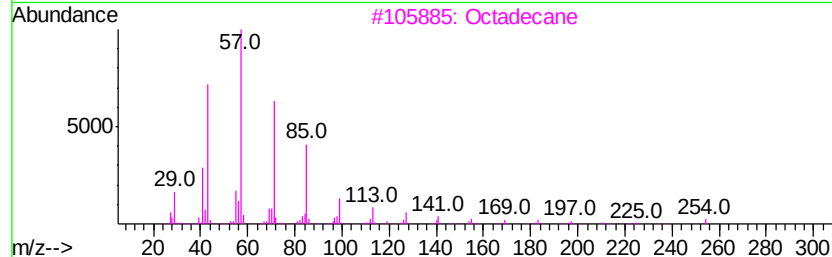
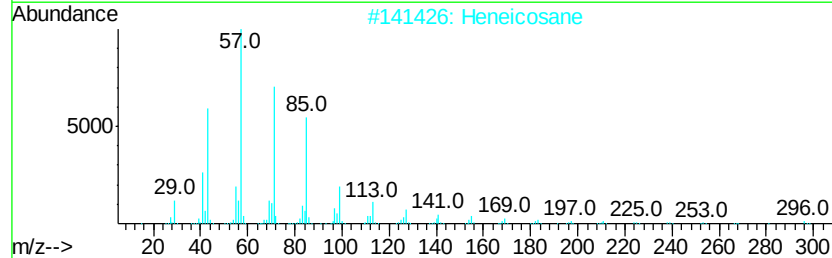
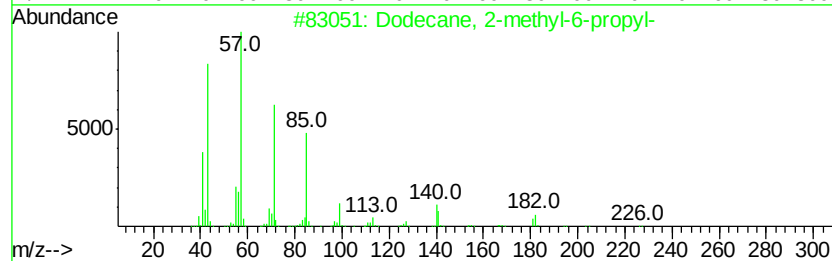
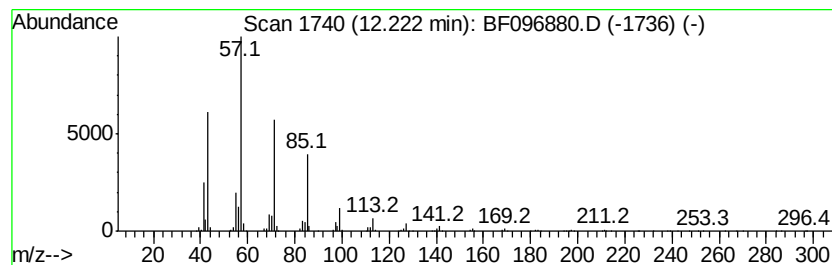
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Dodecane, 2-methyl-6-propyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	56.07 ng	2859390	Phenanthrene-d10	11.11

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	90
2		Heneicosane	296	C21H44	000629-94-7	90
3		Octadecane	254	C18H38	000593-45-3	90
4		Hexadecane	226	C16H34	000544-76-3	90
5		Heptacosane	380	C27H56	000593-49-7	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
 Data File : BF096880.D
 Acq On : 19 Jul 2017 20:00
 Operator : SJ/JU
 Sample : I4244-01 20X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENNSYLVANIA-ANALYTICAL

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Decane, 2,6,7-tri...	6.45	54.4	ng	1819610	1	6.59	668489	20.0
unknown6.75	6.75	34.0	ng	1135050	1	6.59	668489	20.0
Benzene, 1-ethyl-...	6.92	33.0	ng	1104700	1	6.59	668489	20.0
Benzene, 1-methyl...	6.99	35.2	ng	1176660	1	6.59	668489	20.0
Undecane	7.22	100.5	ng	3360200	1	6.59	668489	20.0
Naphthalene, 1,6-...	9.23	62.0	ng	4334830	3	9.63	1398060	20.0
Naphthalene, 2,3-...	9.31	73.6	ng	5147790	3	9.63	1398060	20.0
Bacchotricuneatin c	9.39	50.8	ng	3549300	3	9.63	1398060	20.0
Naphthalene, 2-(1...	9.75	32.7	ng	2283630	3	9.63	1398060	20.0
Hexadecane	10.10	71.9	ng	5023570	3	9.63	1398060	20.0
Undecane, 5-ethyl-	10.32	49.0	ng	3423770	3	9.63	1398060	20.0
Tetratetracontane	10.57	169.7	ng	8656370	4	11.11	1019960	20.0
4,4'-Dimethylbiph...	10.76	30.7	ng	1567630	4	11.11	1019960	20.0
Octadecane	11.02	93.5	ng	4767260	4	11.11	1019960	20.0
Tridecane, 5-propyl-	11.05	55.3	ng	2819050	4	11.11	1019960	20.0
Sulfurous acid, 2...	11.44	82.8	ng	4223970	4	11.11	1019960	20.0
Nonadecane, 9-met...	11.84	70.9	ng	3613640	4	11.11	1019960	20.0
Dodecane, 2-methy...	12.22	56.1	ng	2859390	4	11.11	1019960	20.0