

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
 Data File : BF087471.D
 Acq On : 28 May 2016 7:11
 Operator : UM/SJ
 Sample : H3190-16
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1679(0-4)

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-BF052316.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	1.632	3	4	30	rVB	836645	1515512	35.83%	2.039%
2	4.741	274	276	289	rBV	105181	313306	7.41%	0.421%
3	5.393	330	333	348	rBV	2478680	3914298	92.53%	5.265%
4	7.039	475	477	480	rVV	2268204	4068115	96.17%	5.472%
5	7.142	483	486	490	rVV	3108741	4230295	100.00%	5.690%
6	7.210	490	492	496	rVV	75467	147452	3.49%	0.198%
7	7.484	513	516	520	rBV	532379	775089	18.32%	1.043%
8	7.725	533	537	539	rBV	2032798	3291409	77.81%	4.427%
9	8.399	593	596	599	rBV	1811023	2629146	62.15%	3.537%
10	9.508	691	693	695	rBV	672820	937175	22.15%	1.261%
11	9.542	695	696	699	rVV	195795	291551	6.89%	0.392%
12	10.308	760	763	765	rBV	77875	123954	2.93%	0.167%
13	10.673	792	795	799	rVB	180148	241430	5.71%	0.325%
14	10.822	805	808	812	rBV	139482	212375	5.02%	0.286%
15	11.291	846	849	852	rBV	2780927	4110447	97.17%	5.529%
16	11.508	865	868	872	rVV	67143	114610	2.71%	0.154%
17	11.805	888	894	896	rVV	106569	176663	4.18%	0.238%
18	11.851	896	898	901	rVB2	104454	137574	3.25%	0.185%
19	11.988	907	910	915	rVV	1071192	1415394	33.46%	1.904%
20	12.114	918	921	926	rBV	398972	585323	13.84%	0.787%
21	12.342	938	941	949	rBV2	678758	1200333	28.37%	1.615%
22	12.685	969	971	974	rVV2	89361	168809	3.99%	0.227%
23	12.765	974	978	983	rVB2	69210	142112	3.36%	0.191%
24	12.879	986	988	991	rVB	104531	137408	3.25%	0.185%
25	13.176	1011	1014	1016	rBV	176399	249592	5.90%	0.336%
26	13.234	1016	1019	1023	rVB	136518	233800	5.53%	0.314%
27	13.531	1040	1045	1048	rVB3	85839	244570	5.78%	0.329%
28	13.634	1051	1054	1057	rBV	1610081	2222915	52.55%	2.990%
29	13.702	1059	1060	1067	rVB3	63986	138748	3.28%	0.187%
30	13.977	1079	1084	1086	rBV2	206544	522160	12.34%	0.702%
31	14.354	1115	1117	1119	rBV2	83347	152605	3.61%	0.205%
32	14.457	1124	1126	1130	rVB2	88154	127124	3.01%	0.171%
33	14.685	1144	1146	1148	rBV2	140966	190446	4.50%	0.256%
34	14.742	1148	1151	1152	rBV	563164	824376	19.49%	1.109%

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35	14.777	1152	1154	1157	rVB	980733	1139991	26.95%	1.533%
36	14.857	1157	1161	1164	rBV	365718	536254	12.68%	0.721%
37	14.960	1166	1170	1174	rBV3	82866	191835	4.53%	0.258%
38	15.165	1186	1188	1189	rBV	116008	177688	4.20%	0.239%
39	15.314	1198	1201	1203	rVV2	77690	180437	4.27%	0.243%
40	15.360	1203	1205	1207	rVB	130808	144432	3.41%	0.194%
41	15.531	1217	1220	1222	rBV	275860	332763	7.87%	0.448%
42	15.577	1222	1224	1228	rVV	356677	441389	10.43%	0.594%
43	15.645	1228	1230	1232	rVV	138053	176341	4.17%	0.237%
44	15.680	1232	1233	1235	rVV2	339032	475595	11.24%	0.640%
45	15.725	1235	1237	1241	rVB2	260545	432049	10.21%	0.581%
46	15.977	1255	1259	1262	rBV2	164016	368039	8.70%	0.495%
47	16.034	1262	1264	1267	rBV	171981	220634	5.22%	0.297%
48	16.091	1267	1269	1272	rVB2	298357	384671	9.09%	0.517%
49	16.194	1276	1278	1280	rBV	85424	129605	3.06%	0.174%
50	16.240	1280	1282	1284	rBV	99024	116063	2.74%	0.156%
51	16.343	1288	1291	1293	rBV	304526	505149	11.94%	0.679%
52	16.377	1293	1294	1296	rVV	128436	158639	3.75%	0.213%
53	16.457	1299	1301	1304	rVB	290792	377592	8.93%	0.508%
54	16.514	1304	1306	1307	rBV	153157	210624	4.98%	0.283%
55	16.548	1307	1309	1311	rVB	2439667	3226305	76.27%	4.340%
56	16.594	1311	1313	1315	rVB	106256	142879	3.38%	0.192%
57	16.651	1315	1318	1319	rBV2	137171	234024	5.53%	0.315%
58	16.674	1319	1320	1322	rVB	197180	222308	5.26%	0.299%
59	16.743	1324	1326	1328	rBV2	88994	149250	3.53%	0.201%
60	16.857	1332	1336	1338	rVB2	2569535	3400867	80.39%	4.575%
61	16.937	1338	1343	1344	rBV3	105646	199174	4.71%	0.268%
62	16.971	1344	1346	1348	rVB	104724	146853	3.47%	0.198%
63	17.040	1348	1352	1354	rBV2	207953	411997	9.74%	0.554%
64	17.097	1354	1357	1360	rVB	1966442	2645156	62.53%	3.558%
65	17.165	1360	1363	1367	rBV3	205979	450129	10.64%	0.605%
66	17.280	1370	1373	1375	rBV2	293439	605513	14.31%	0.814%
67	17.314	1375	1376	1379	rVB	443682	402754	9.52%	0.542%
68	17.405	1382	1384	1385	rVB	193753	238755	5.64%	0.321%
69	17.451	1385	1388	1390	rBV2	442187	680434	16.08%	0.915%
70	17.566	1393	1398	1400	rBV2	366638	536419	12.68%	0.722%
71	17.828	1418	1421	1422	rBV3	81867	179260	4.24%	0.241%

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72	17.954	1428	1432	1434	rBV3	87310	249691	5.90%	0.336%
73	18.000	1434	1436	1438	rVV	391665	502307	11.87%	0.676%
74	18.114	1444	1446	1447	rVV	242079	318441	7.53%	0.428%
75	18.148	1447	1449	1451	rVV2	298567	463329	10.95%	0.623%
76	18.183	1451	1452	1453	rVV	249085	197366	4.67%	0.265%
77	18.217	1453	1455	1457	rVB	207158	251735	5.95%	0.339%
78	18.274	1457	1460	1462	rBV	370764	477310	11.28%	0.642%
79	18.434	1471	1474	1477	rBV2	1360240	2890611	68.33%	3.888%
80	18.480	1477	1478	1481	rVV	1462271	1623832	38.39%	2.184%
81	18.571	1484	1486	1488	rVB2	142283	159479	3.77%	0.215%
82	18.651	1491	1493	1494	rBV	192466	213755	5.05%	0.288%
83	18.720	1497	1499	1501	rBV	151437	160105	3.78%	0.215%
84	18.766	1501	1503	1506	rVB3	153757	211580	5.00%	0.285%
85	18.903	1514	1515	1517	rBV2	101035	157328	3.72%	0.212%
86	18.948	1517	1519	1521	rVV	406596	529394	12.51%	0.712%
87	19.029	1524	1526	1527	rBV2	131782	160138	3.79%	0.215%
88	19.063	1527	1529	1531	rVB	147144	126466	2.99%	0.170%
89	19.108	1531	1533	1534	rBV2	136562	221697	5.24%	0.298%
90	19.349	1551	1554	1555	rBV2	193527	375336	8.87%	0.505%
91	19.554	1570	1572	1575	rBV	290766	417710	9.87%	0.562%
92	19.726	1584	1587	1592	rBV	1369769	3217827	76.07%	4.328%
93	19.829	1594	1596	1598	rBV	401092	465110	10.99%	0.626%
94	20.011	1609	1612	1615	rBV	837315	1280678	30.27%	1.723%
95	20.069	1615	1617	1620	rVV	961103	1101315	26.03%	1.481%
96	20.126	1620	1622	1623	rVV	294124	327702	7.75%	0.441%
97	21.349	1726	1729	1732	rBV	461658	805977	19.05%	1.084%
98	21.692	1757	1759	1768	rVB	321173	651557	15.40%	0.876%
99	23.486	1914	1916	1922	rVB	80900	235847	5.58%	0.317%
100	23.658	1928	1931	1936	rBV	59469	191182	4.52%	0.257%

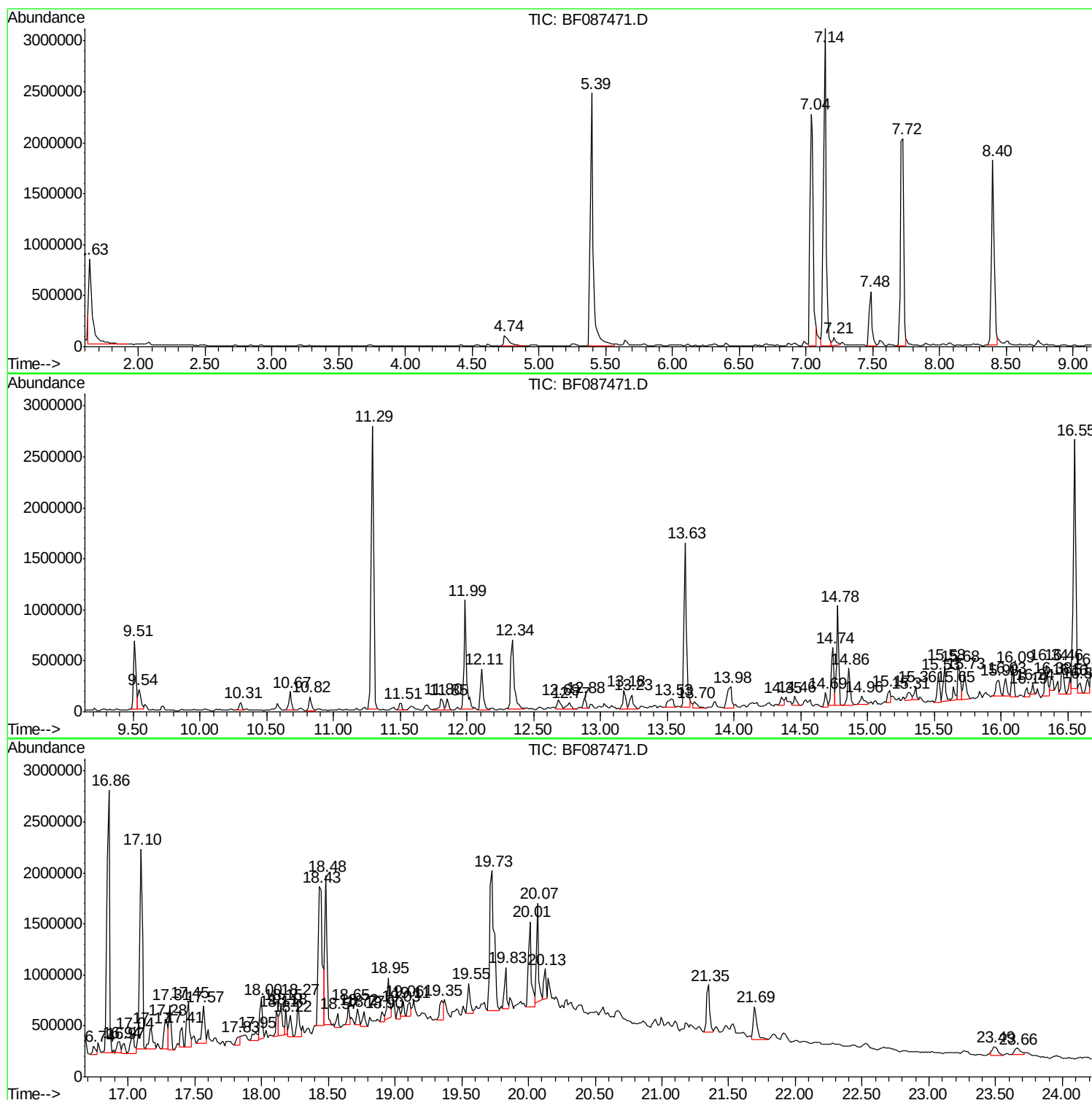
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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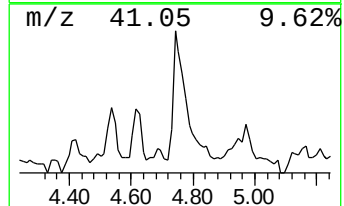
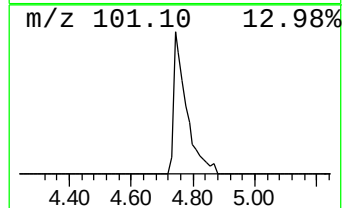
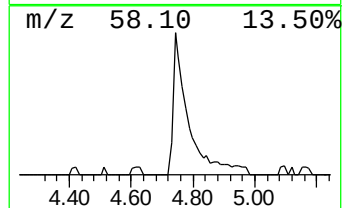
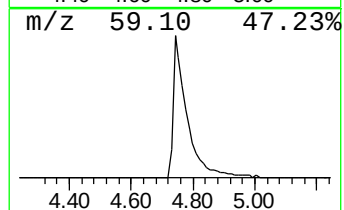
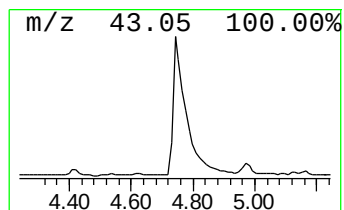
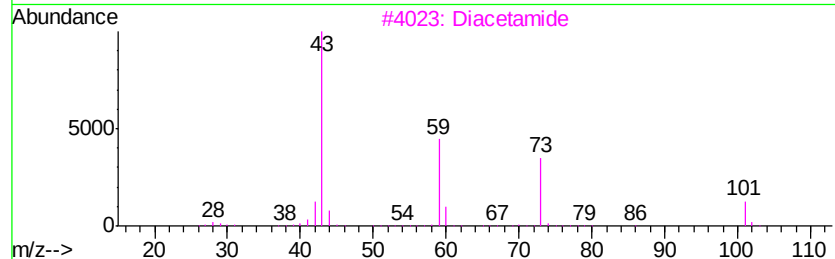
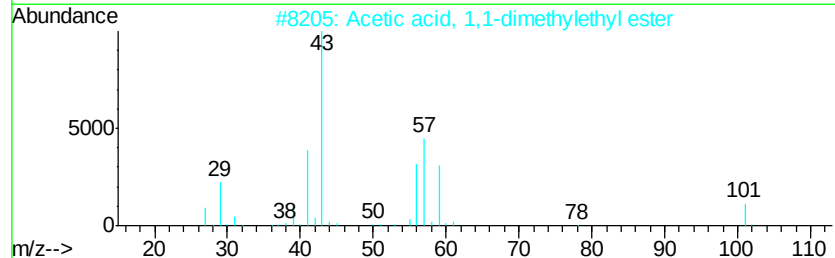
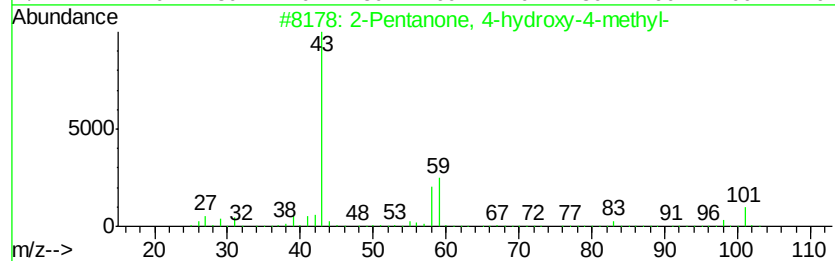
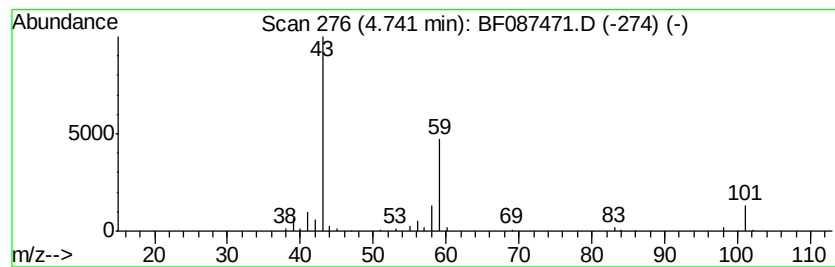
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.74	8.08 ng	313306	1,4-Dichlorobenzene-d4	7.48

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2			Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
3			Diacetamide	101	C4H7NO2	000625-77-4	9
4			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5			2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9



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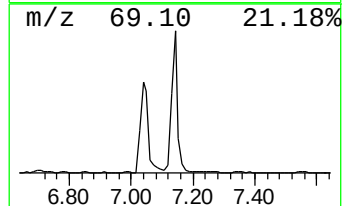
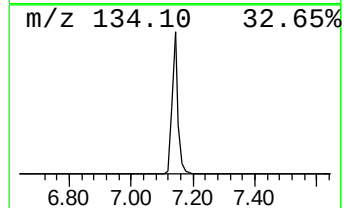
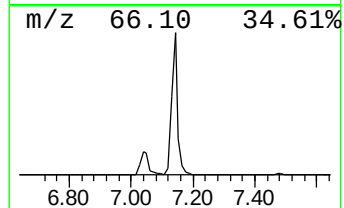
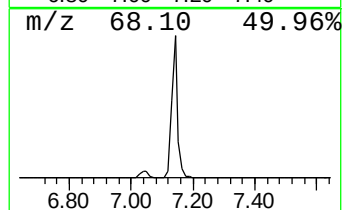
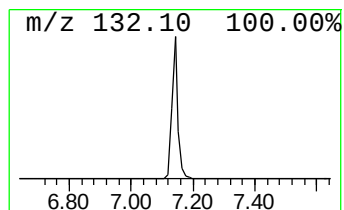
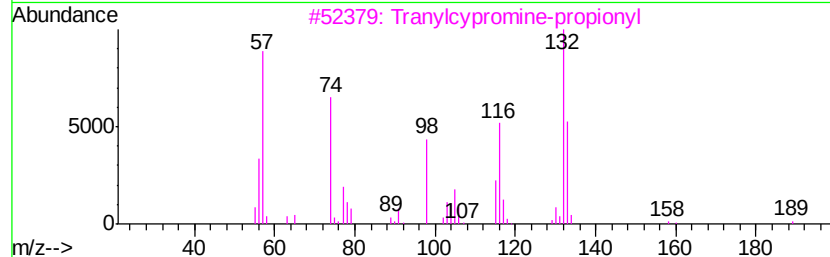
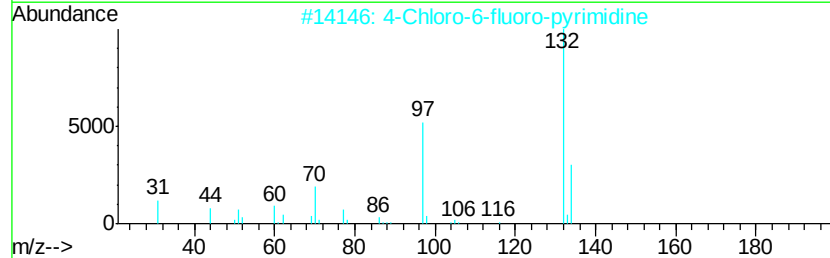
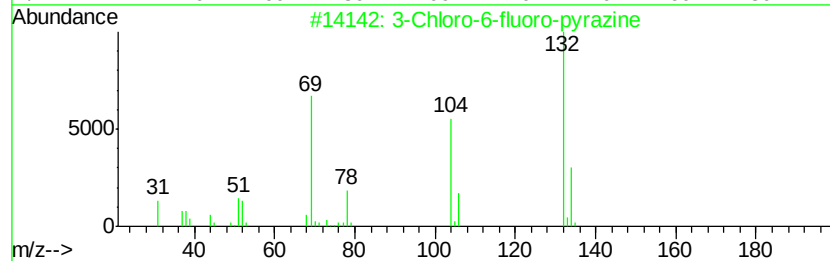
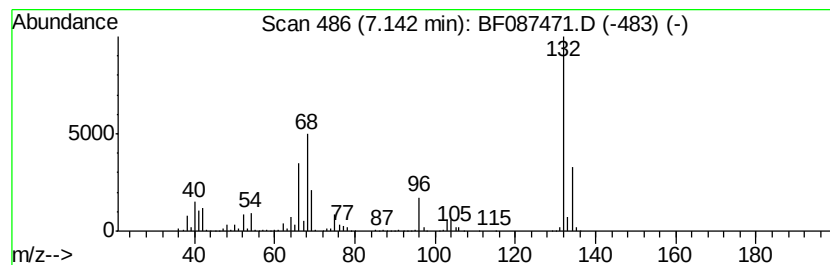
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Peak Number 3 unknown7.14 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.14	109.16 ng	4230300	1,4-Dichlorobenzene-d4	7.48

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
3		Tranvlcypromine-propionyl	189	C12H15NO	1000123-86-3	22
4		1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12



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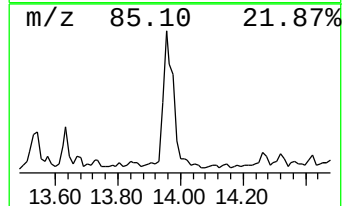
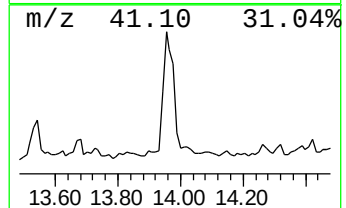
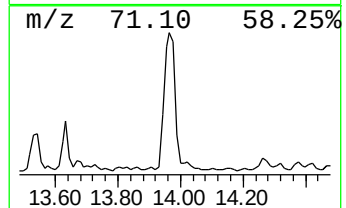
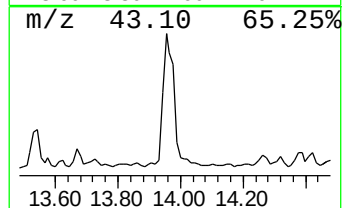
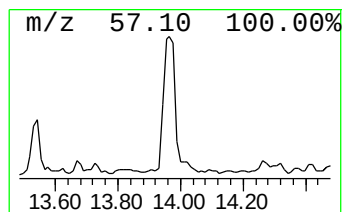
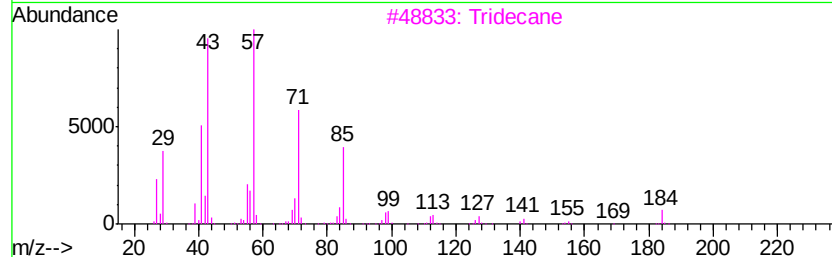
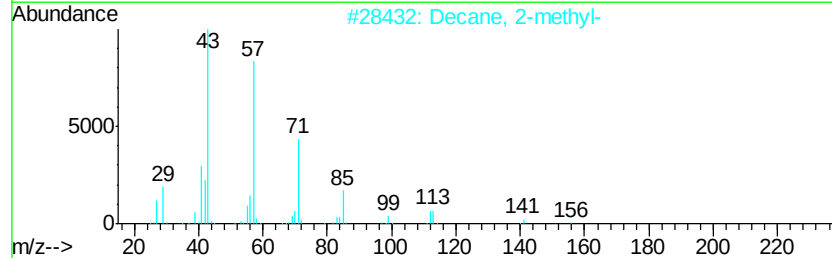
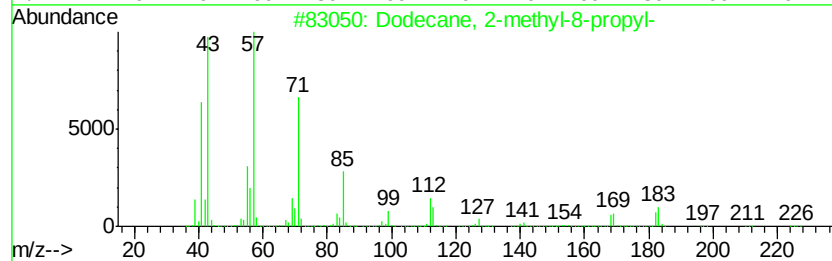
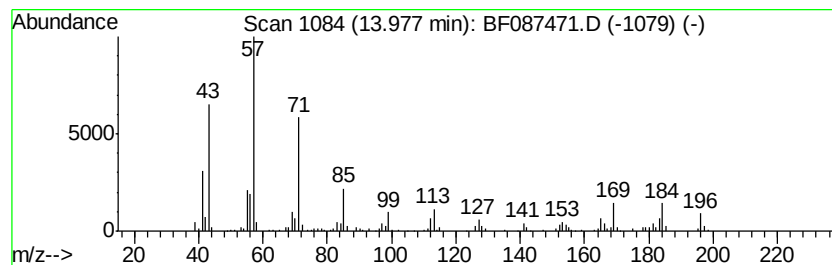
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Peak Number 5 Dodecane, 2-methyl-8-propyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.98	12.67 ng	522160	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	80
2		Decane, 2-methyl-	156	C11H24	006975-98-0	74
3		Tridecane	184	C13H28	000629-50-5	58
4		Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	58
5		Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	52



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Operator : UM/SJ
Sample : H3190-16
Misc :
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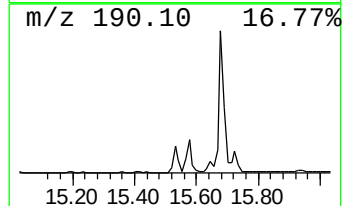
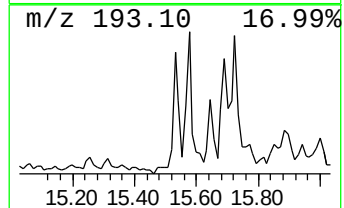
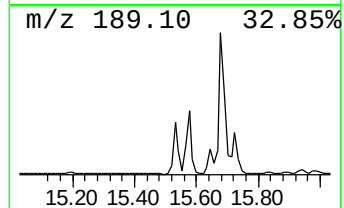
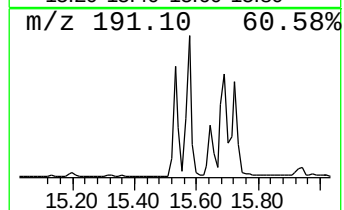
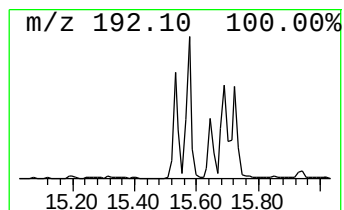
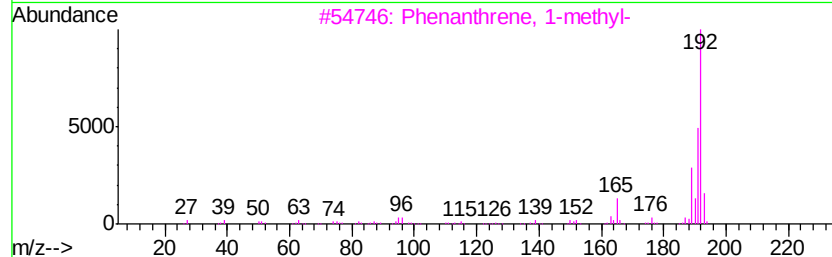
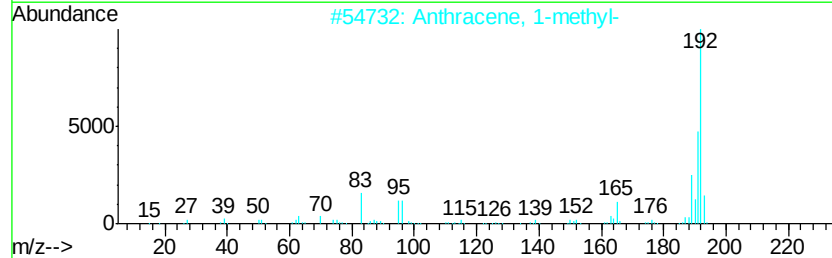
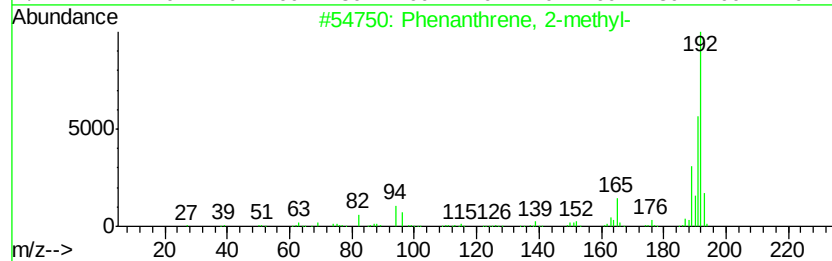
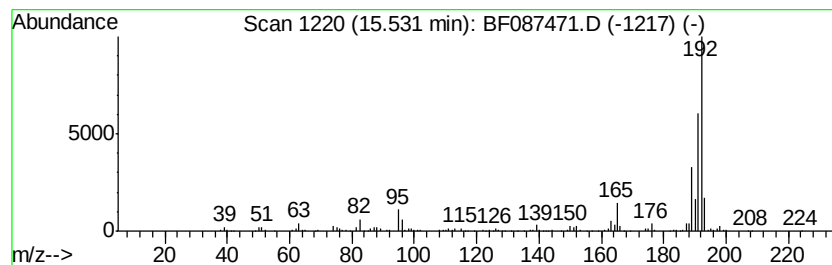
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.53	8.07 ng	332763	Phenanthrene-d10	14.74	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
Data File : BF087471.D
Acq On : 28 May 2016 7:11
Operator : UM/SJ
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ClientSampleId :
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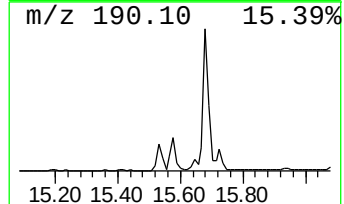
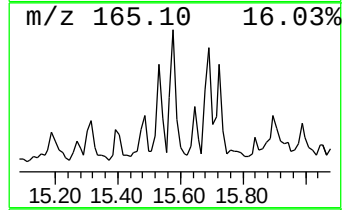
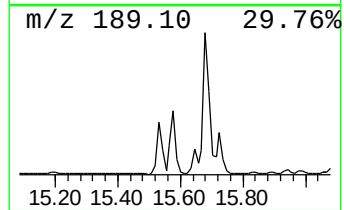
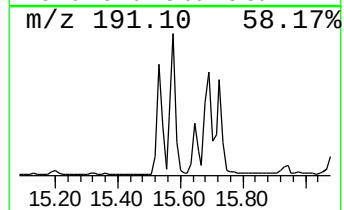
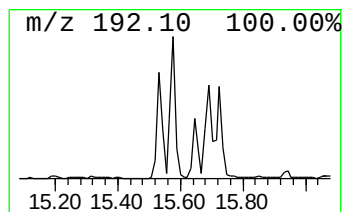
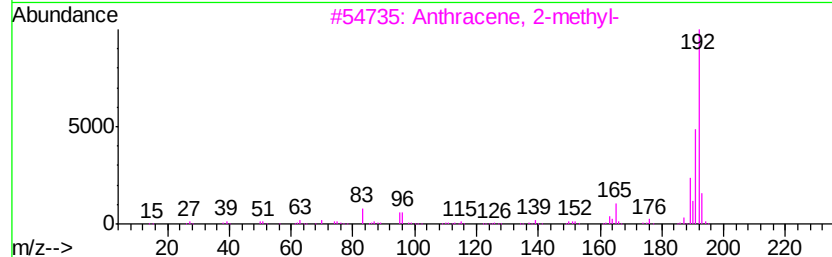
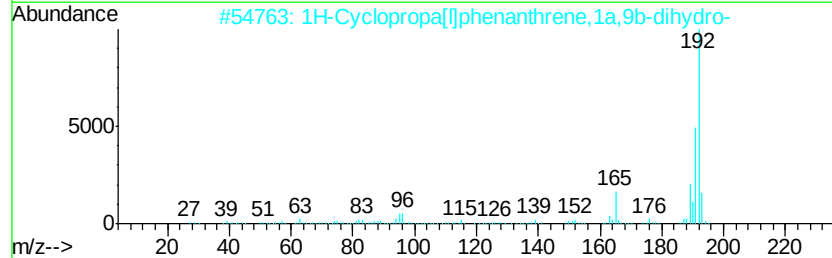
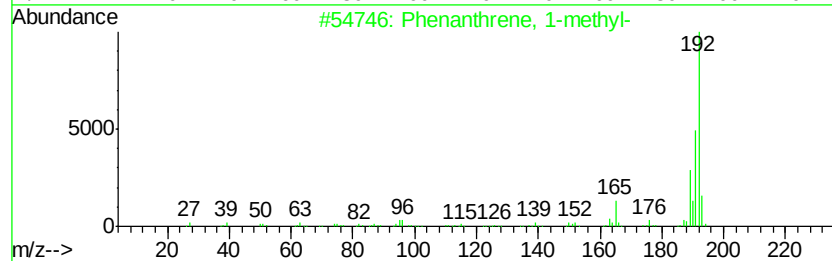
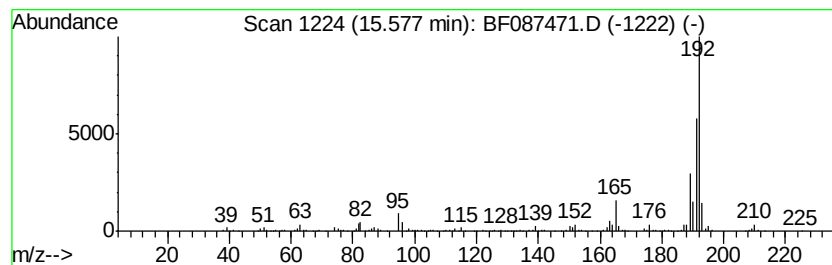
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.58	10.71 ng	441389	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
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Sample : H3190-16
Misc :
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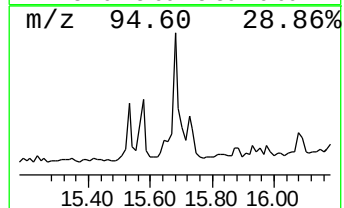
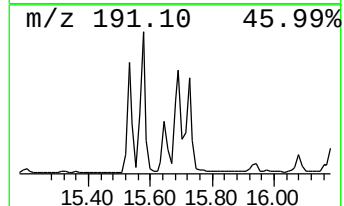
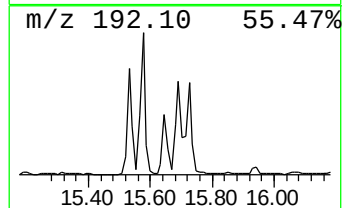
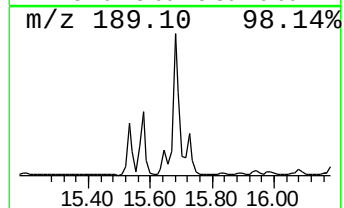
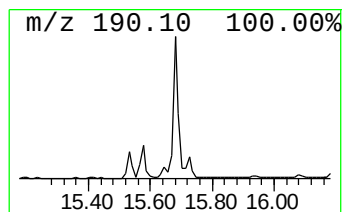
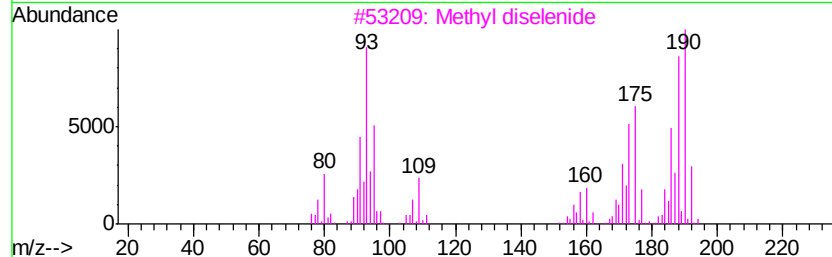
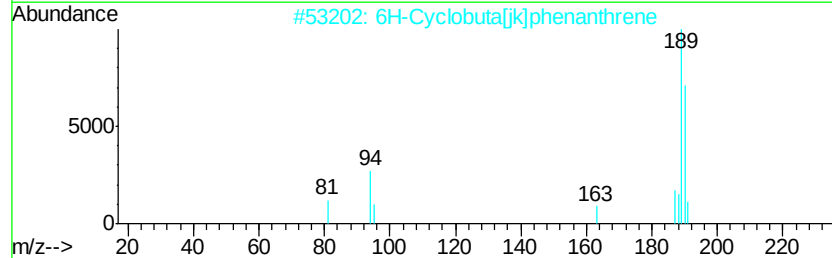
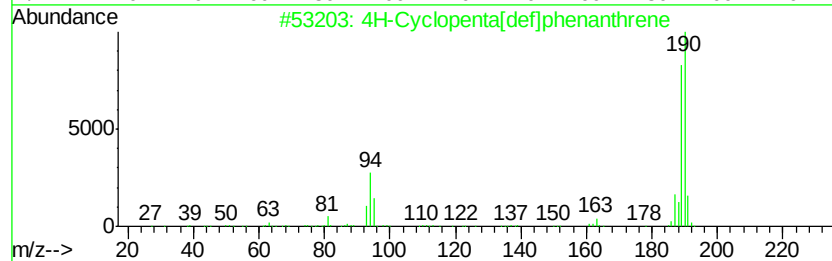
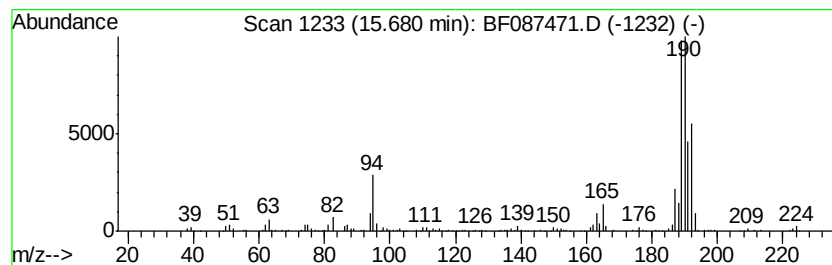
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.68	11.54 ng	475595	Phenanthrene-d10	14.74	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	58
3	Methyl diselenide	190	C2H6Se2	007101-31-7	41
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	40
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
Data File : BF087471.D
Acq On : 28 May 2016 7:11
Operator : UM/SJ
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Instrument :
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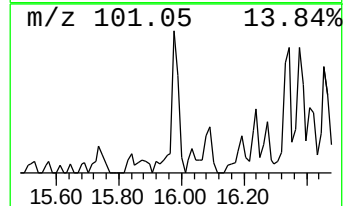
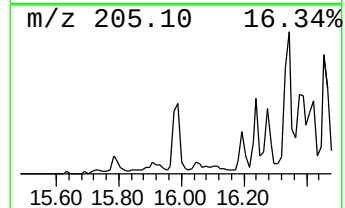
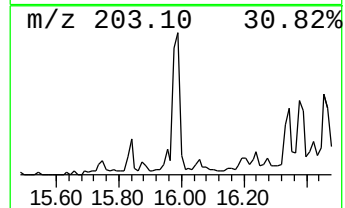
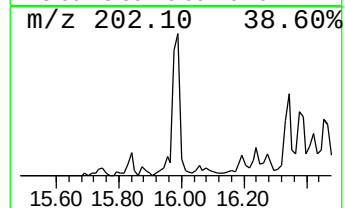
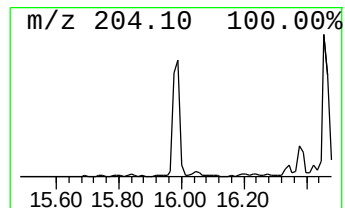
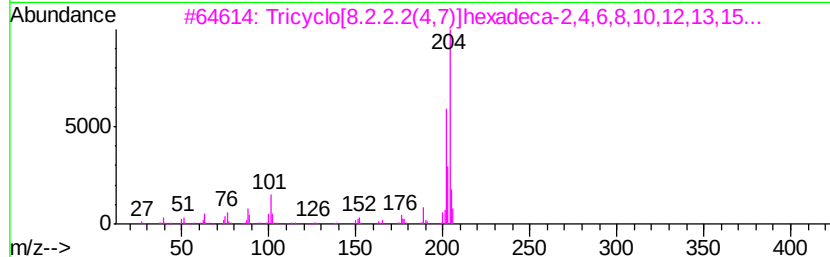
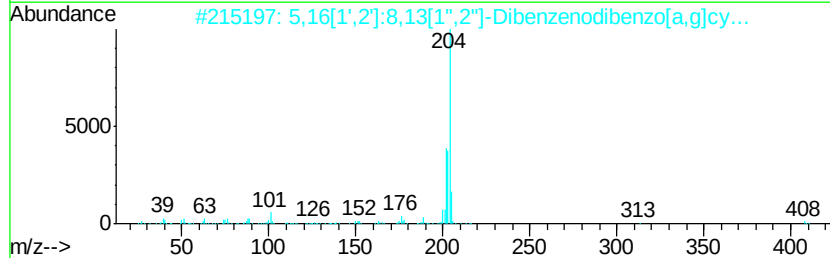
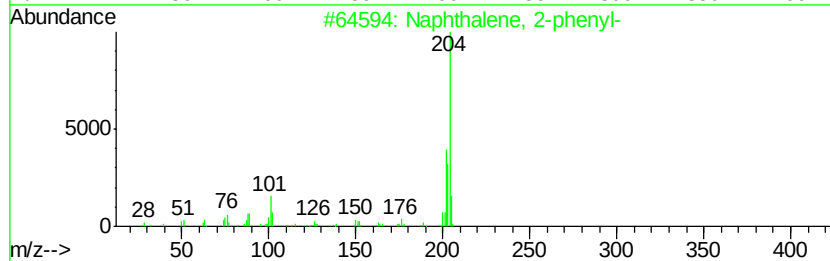
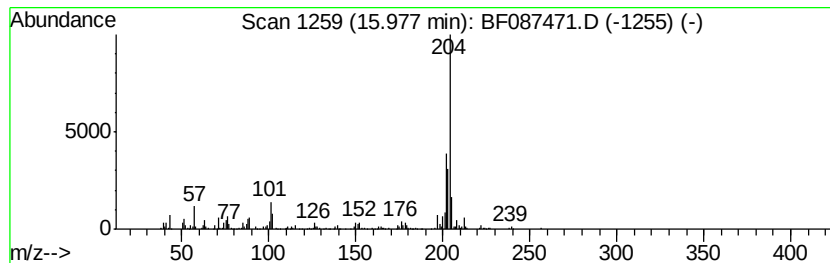
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.98	8.93 ng	368039	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2		5,16[1',2'] :8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
4		6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	60



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
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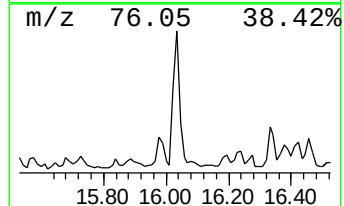
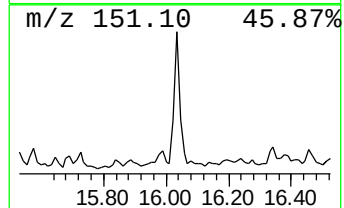
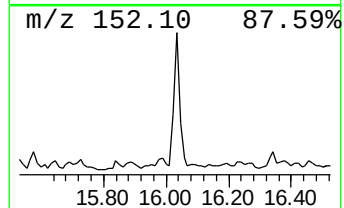
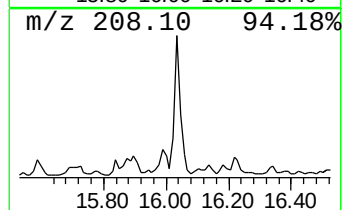
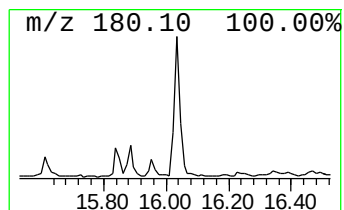
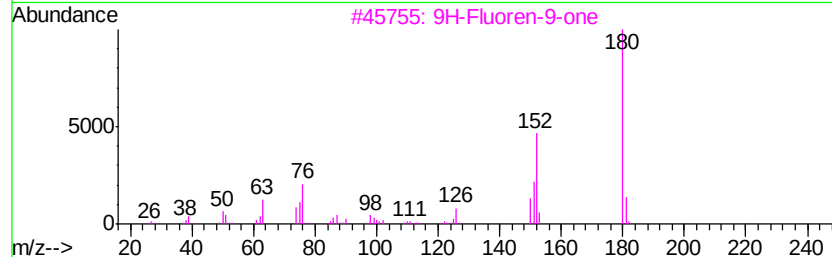
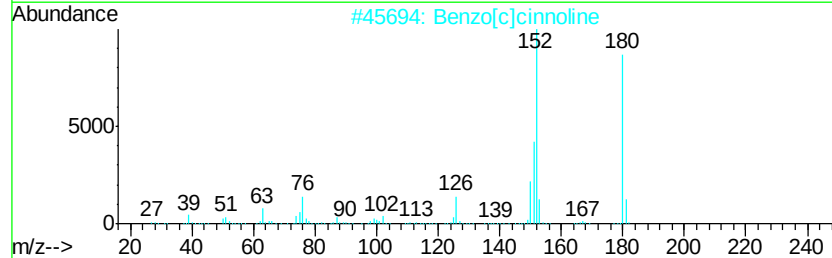
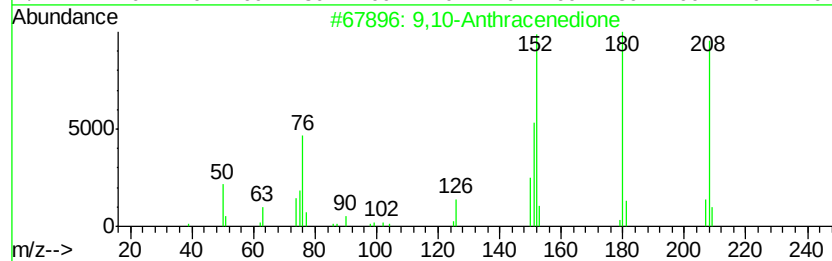
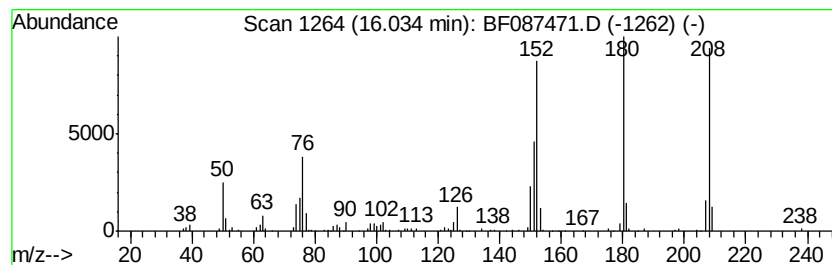
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TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 9,10-Anthracenedione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	5.35 ng	220634	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	55
5		1H-Phenalen-1-one	180	C13H8O	000548-39-0	49



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087471.D
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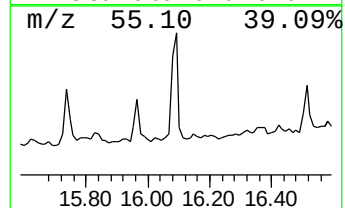
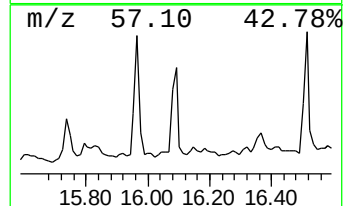
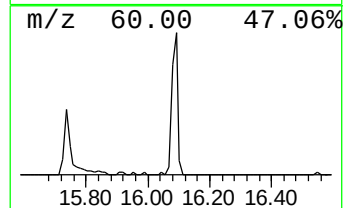
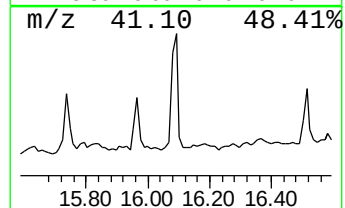
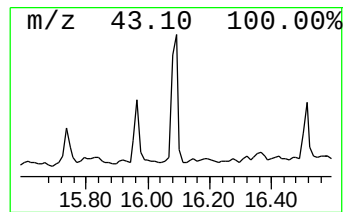
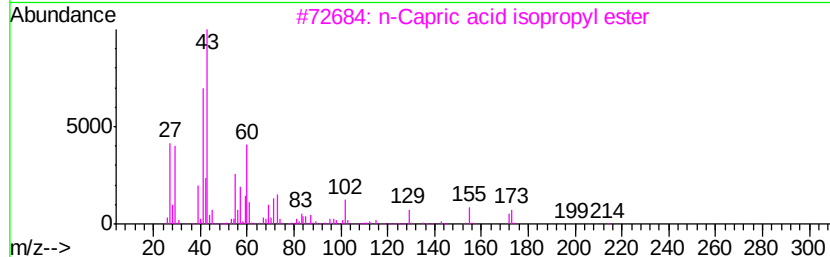
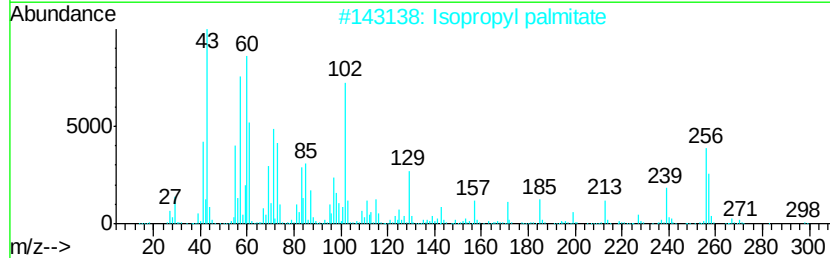
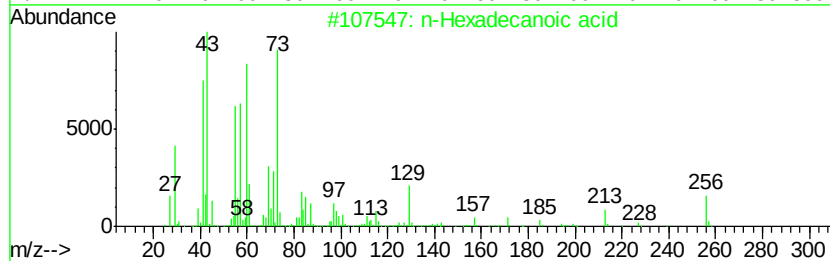
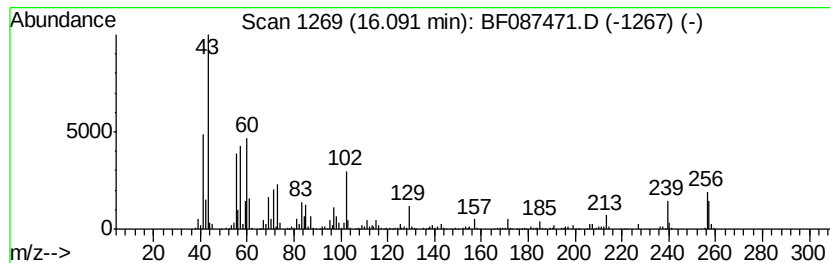
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 n-Hexadecanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.09	9.33 ng	384671	Phenanthrene-d10	14.74

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	92
2			Isopropyl palmitate	298	C19H38O2	000142-91-6	58
3			n-Capric acid isopropyl ester	214	C13H26O2	002311-59-3	47
4			Pentanoic acid, 1-methylethyl ester	144	C8H16O2	018362-97-5	25
5			Heptanoic acid, propyl ester	172	C10H20O2	007778-87-2	22



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
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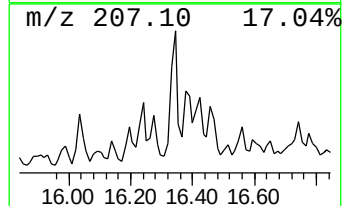
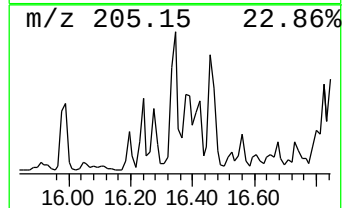
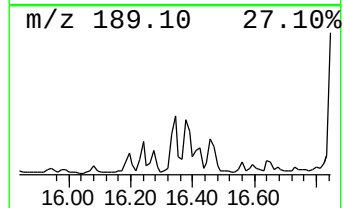
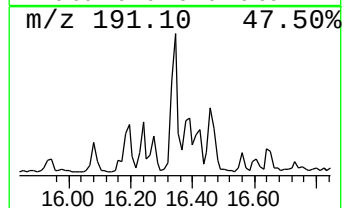
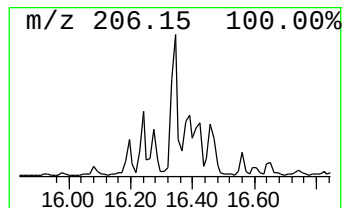
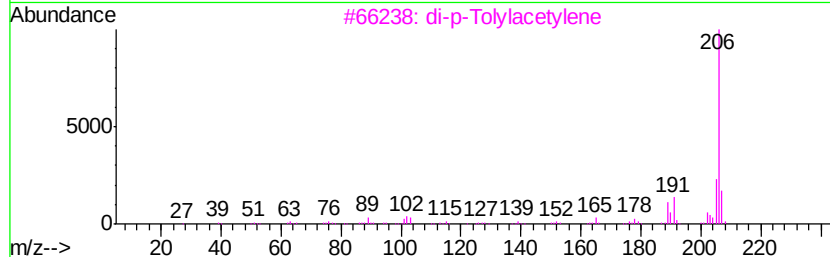
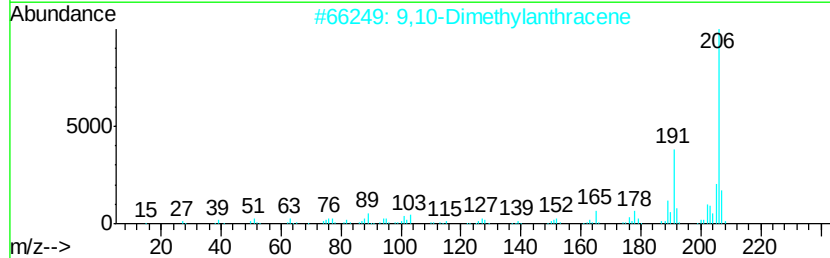
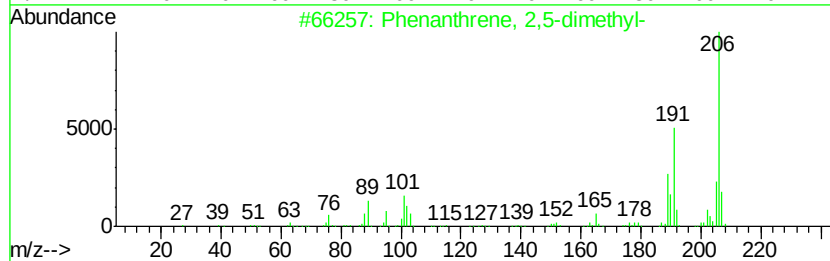
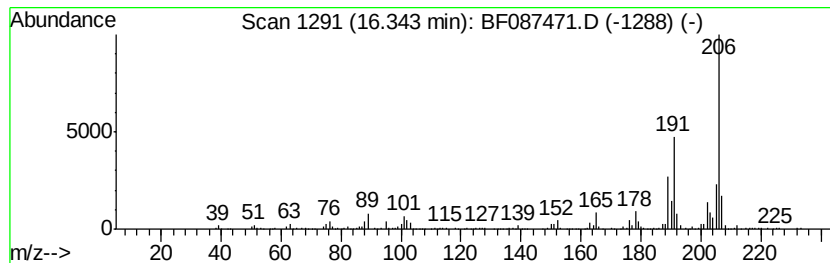
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.34	12.26 ng	505149	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2		9,10-Dimethylantracene	206	C16H14	000781-43-1	95
3		di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5		3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	89



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087471.D
Acq On : 28 May 2016 7:11
Operator : UM/SJ
Sample : H3190-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1679(0-4)

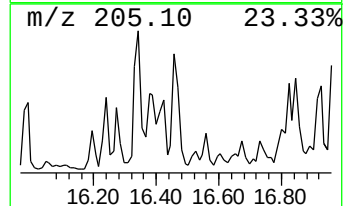
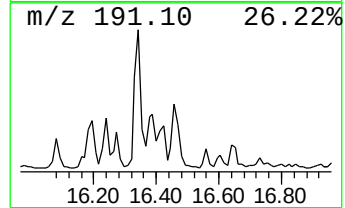
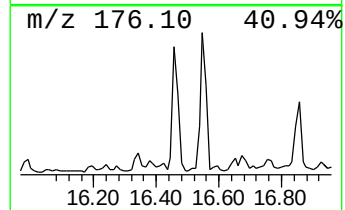
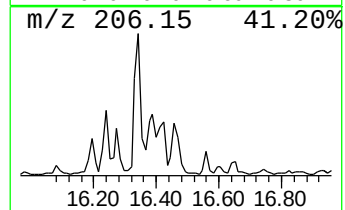
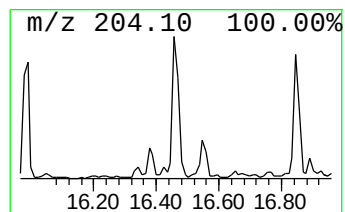
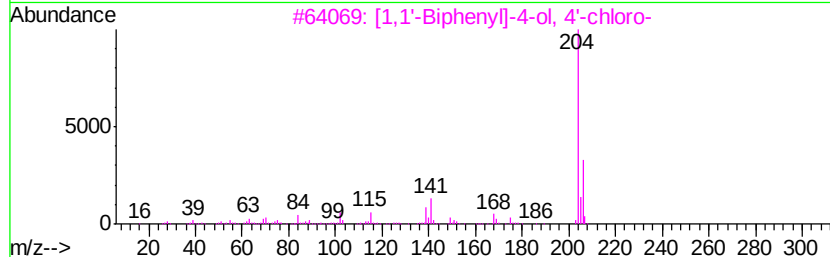
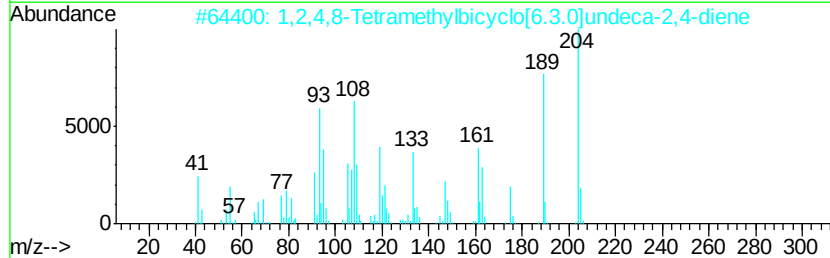
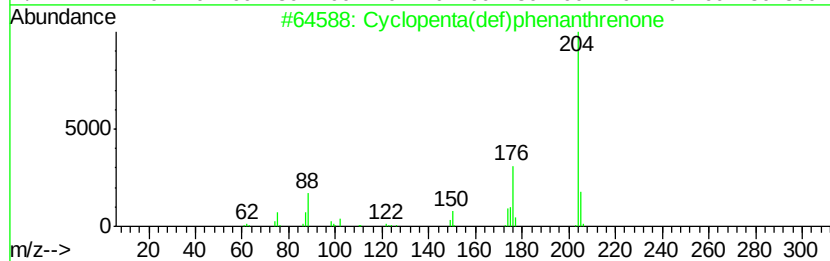
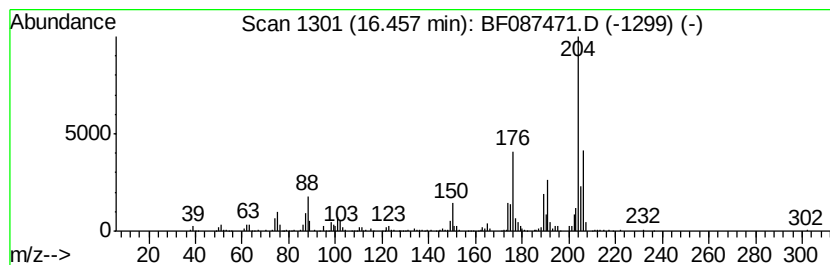
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.46	9.16 ng	377592	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	92
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	50
3		[1,1'-Bi]phenyl-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	43
4		Benzene, 1-chloro-3-phenoxy-	204	C12H9ClO	006452-49-9	43
5		Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	40



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
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Acq On : 28 May 2016 7:11
Operator : UM/SJ
Sample : H3190-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

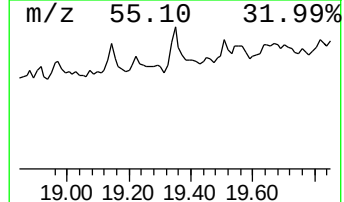
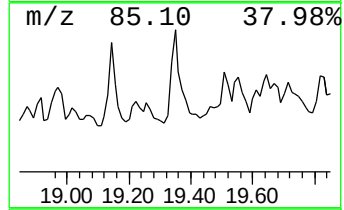
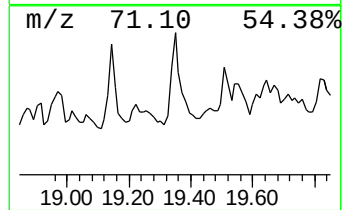
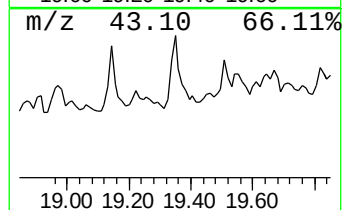
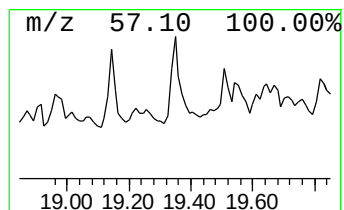
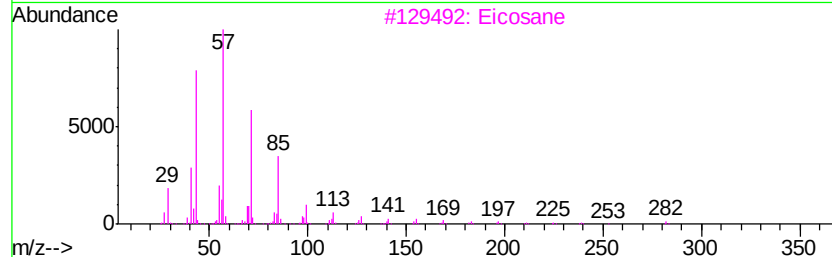
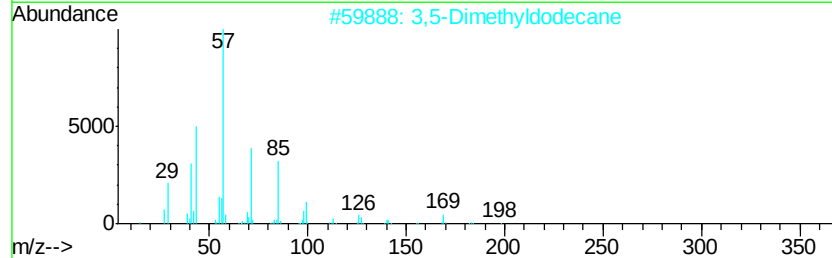
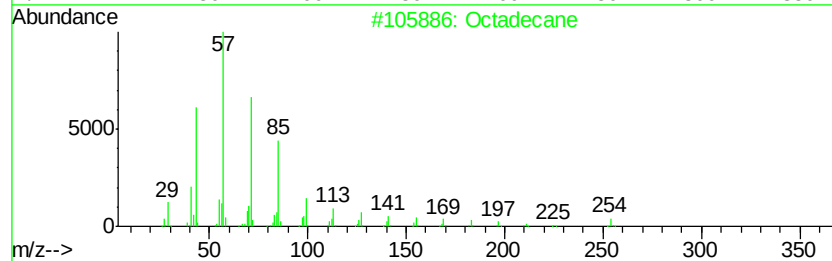
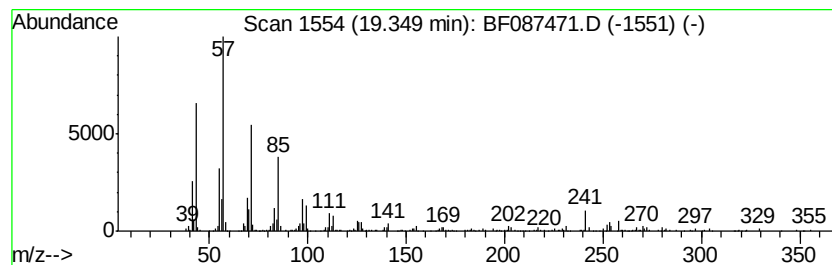
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CHS-STA-1679(0-4)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
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 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.35	22.91 ng	375336	Perylene-d12	20.13
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Octadecane	254 C18H38	000593-45-3	94
2	3,5-Dimethyldodecane	198 C14H30	107770-99-0	89
3	Eicosane	282 C20H42	000112-95-8	89
4	Heptadecane, 9-octyl-	352 C25H52	007225-64-1	86
5	Sulfurous acid, butyl heptadecyl...	376 C21H44O3S	1000309-18-4	81



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087471.D
Acq On : 28 May 2016 7:11
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Sample : H3190-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

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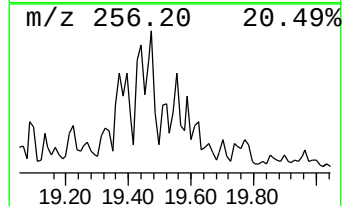
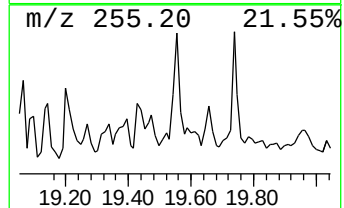
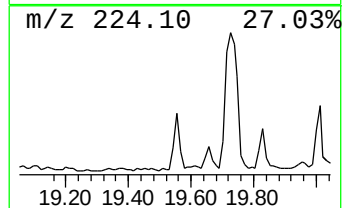
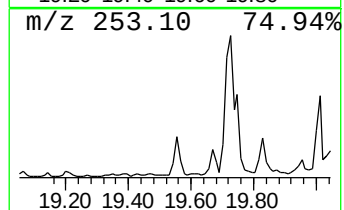
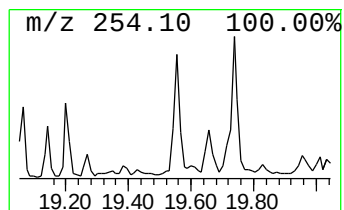
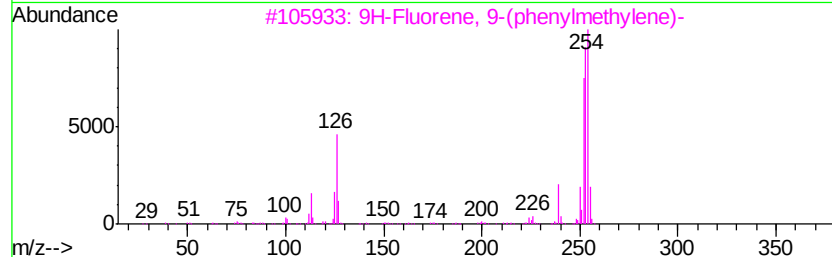
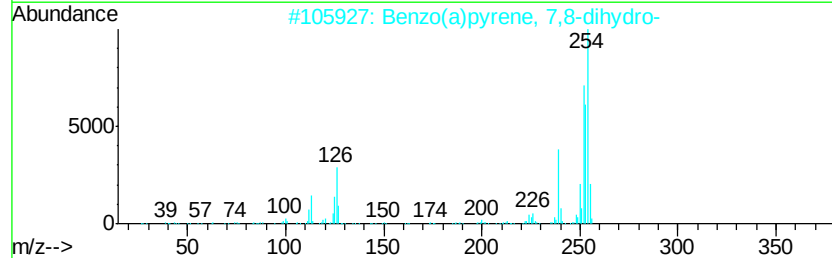
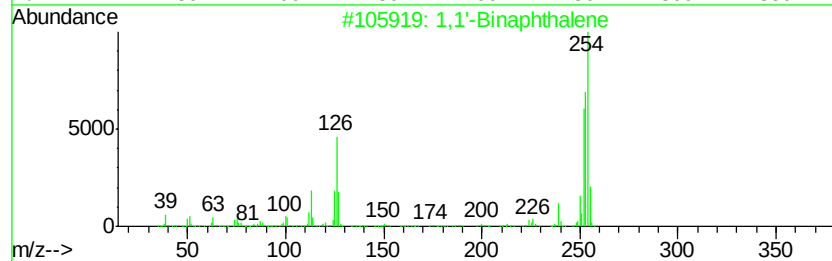
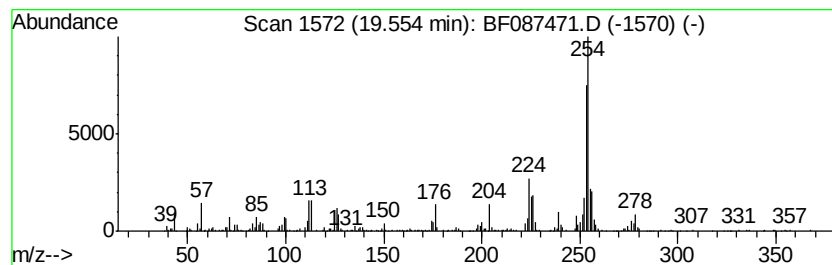
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 1,1'-Binaphthalene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	25.49 ng	417710	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Binaphthalene	254	C20H14	000604-53-5	76
2		Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	76
3		9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	64
4		1,2'-Binaphthalene	254	C20H14	004325-74-0	64
5		Anthracene, 9-phenyl-	254	C20H14	000602-55-1	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087471.D
Acq On : 28 May 2016 7:11
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Sample : H3190-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

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CHS-STA-1679(0-4)

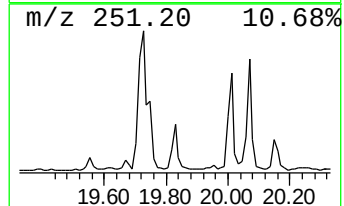
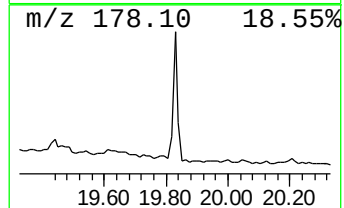
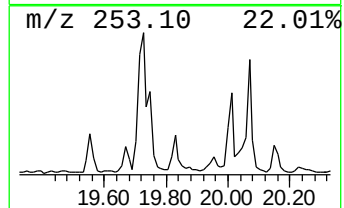
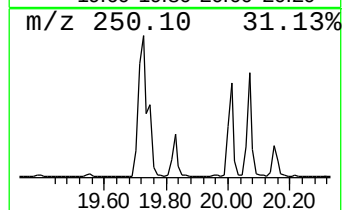
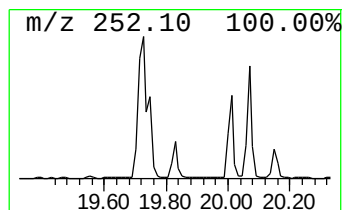
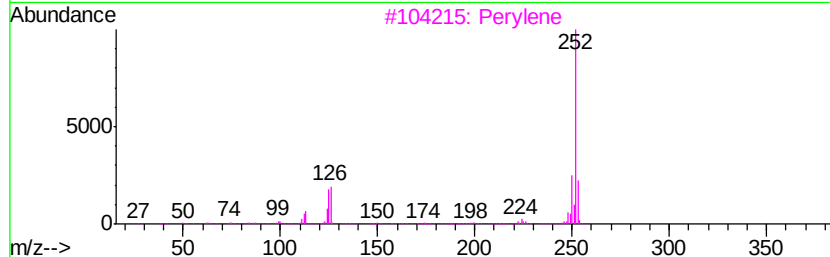
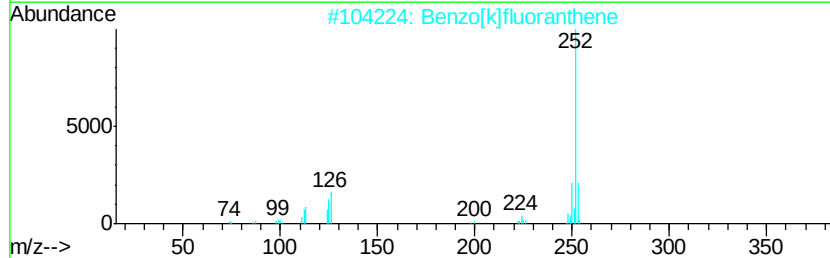
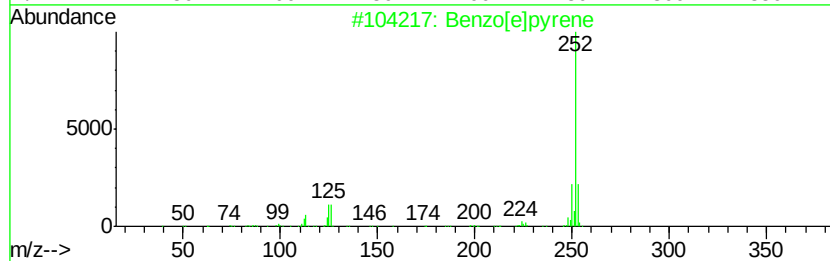
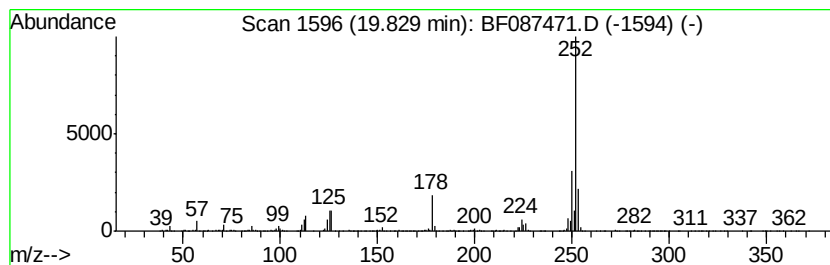
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.83	28.39 ng	465110	Perylene-d12	20.13

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzo[e]pyrene	252	C20H12	000192-97-2	96
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3		Perylene	252	C20H12	000198-55-0	94
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	89
5		Benzo[a]pyrene	252	C20H12	000050-32-8	89



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087471.D
Acq On : 28 May 2016 7:11
Operator : UM/SJ
Sample : H3190-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
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CHS-STA-1679(0-4)

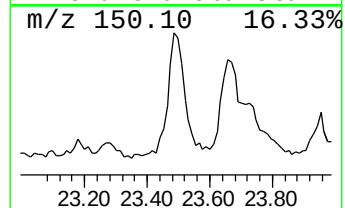
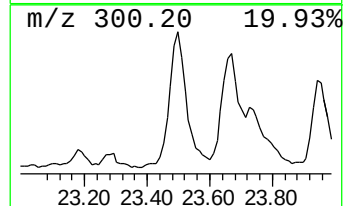
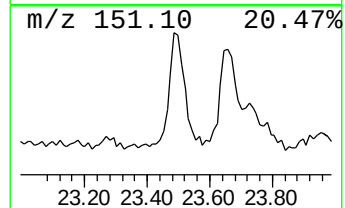
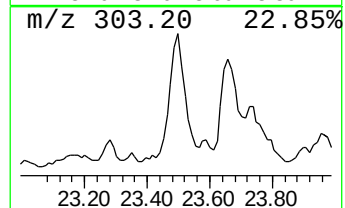
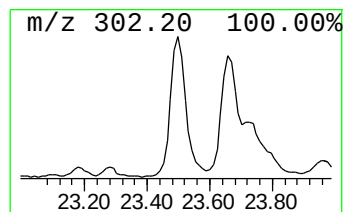
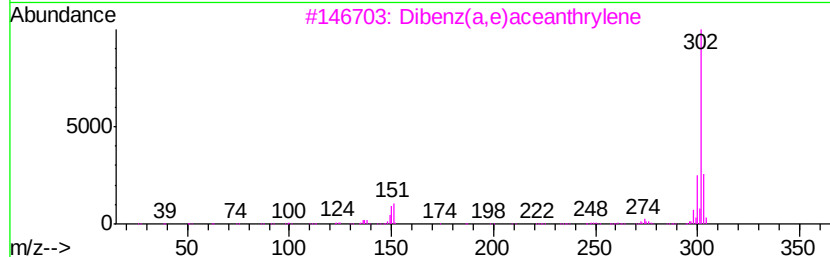
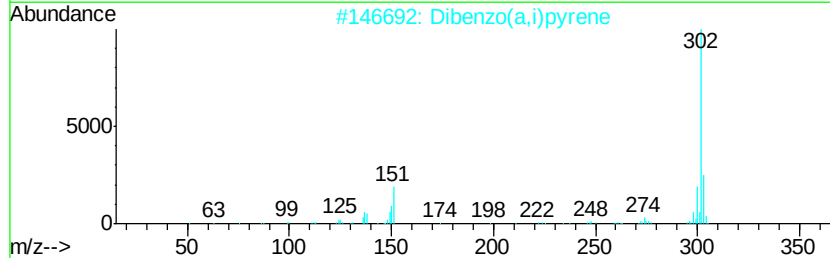
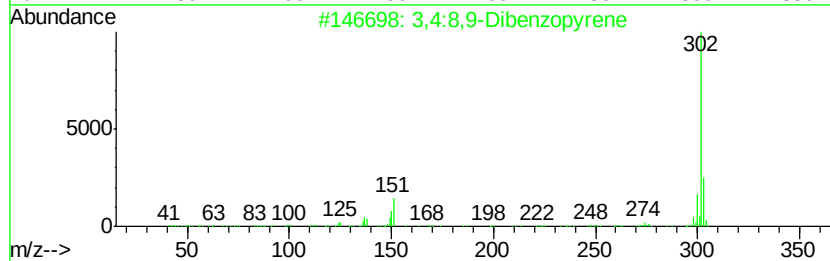
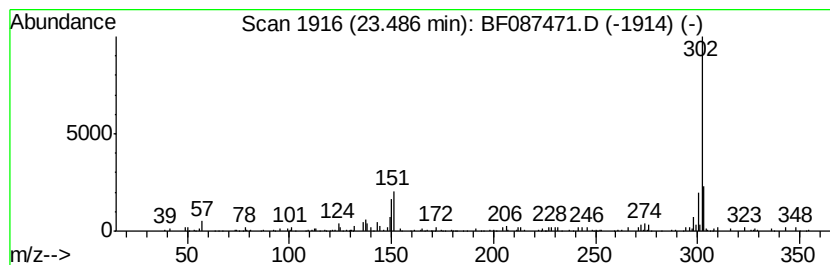
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 3,4:8,9-Dibenzopyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.49	14.39 ng	235847	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	92
2		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	90
3		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	90
4		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	90
5		1,2,9,10-Dibenzopyrene	302	C24H14	000191-30-0	68



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
Data File : BF087471.D
Acq On : 28 May 2016 7:11
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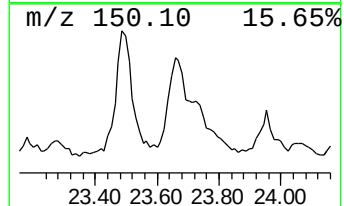
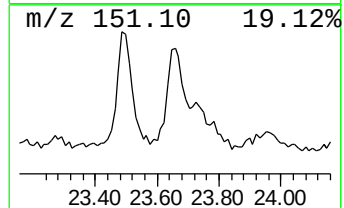
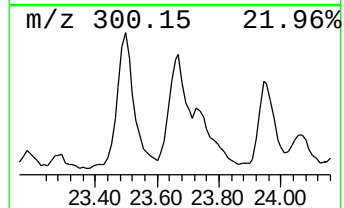
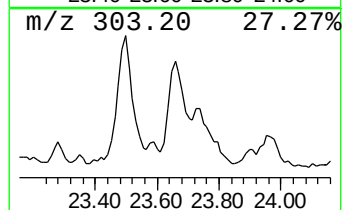
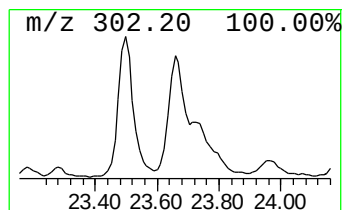
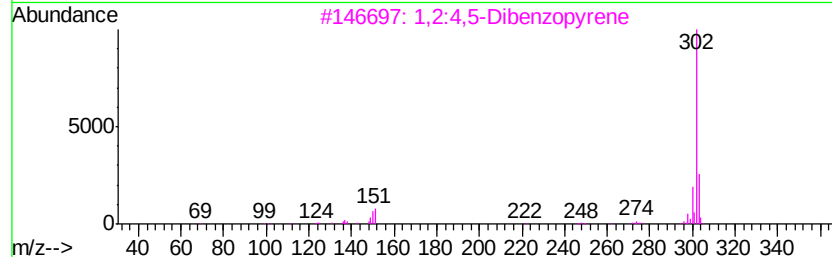
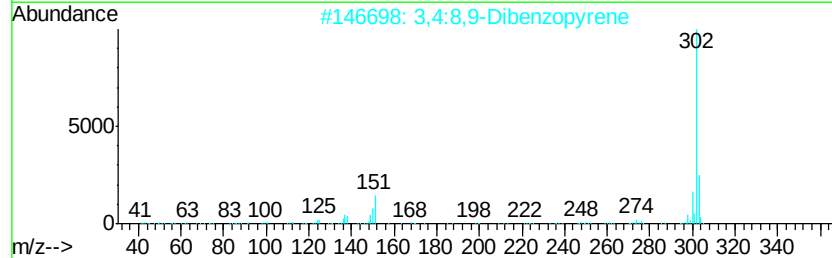
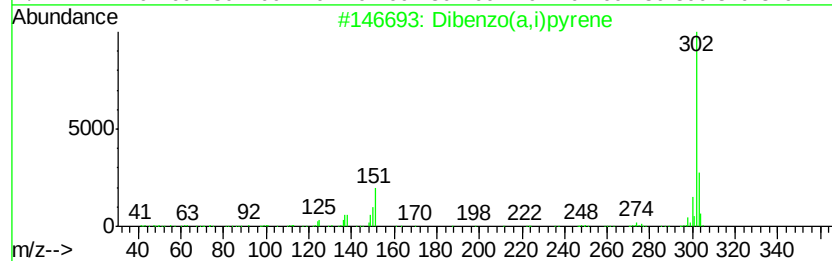
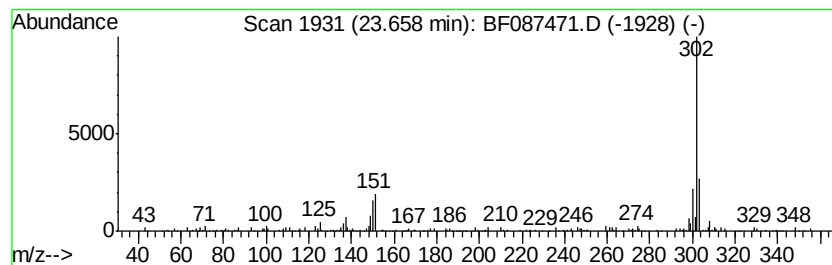
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Dibenzo(a,i)pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.66	11.67 ng	191182	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	95
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	93
3		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	90
4		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	90
5		Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	59



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
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 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.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
2-Pentanone, 4-hy...	4.74	8.1 ng		313306	1	7.48	775089	20.0
unknown7.14	7.14	109.2 ng		4230300	1	7.48	775089	20.0
Dodecane, 2-methy...	13.98	12.7 ng		522160	4	14.74	824376	20.0
Phenanthrene, 2-m...	15.53	8.1 ng		332763	4	14.74	824376	20.0
Phenanthrene, 1-m...	15.58	10.7 ng		441389	4	14.74	824376	20.0
4H-Cyclopenta[def...	15.68	11.5 ng		475595	4	14.74	824376	20.0
Naphthalene, 2-ph...	15.98	8.9 ng		368039	4	14.74	824376	20.0
9,10-Anthracenedione	16.03	5.3 ng		220634	4	14.74	824376	20.0
n-Hexadecanoic acid	16.09	9.3 ng		384671	4	14.74	824376	20.0
Phenanthrene, 2,5...	16.34	12.3 ng		505149	4	14.74	824376	20.0
Cyclopenta(def)ph...	16.46	9.2 ng		377592	4	14.74	824376	20.0
Octadecane	19.35	22.9 ng		375336	6	20.13	327702	20.0
1,1'-Binaphthalene	19.55	25.5 ng		417710	6	20.13	327702	20.0
Benzo[e]pyrene	19.83	28.4 ng		465110	6	20.13	327702	20.0
3,4:8,9-Dibenzopy...	23.49	14.4 ng		235847	6	20.13	327702	20.0
Dibenzo(a,i)pyrene	23.66	11.7 ng		191182	6	20.13	327702	20.0