

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
 Data File : BF087472.D
 Acq On : 28 May 2016 7:45
 Operator : UM/SJ
 Sample : H3190-19
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1685(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	1.633	3	4	32	rVB	2050327	3878301	69.42%	4.343%
2	4.741	273	276	290	rBV	79774	260224	4.66%	0.291%
3	5.393	330	333	353	rBV	1941513	3567295	63.85%	3.994%
4	7.039	475	477	483	rVV	2188178	3559572	63.71%	3.986%
5	7.142	483	486	491	rVV	2788852	3788515	67.81%	4.242%
6	7.485	513	516	520	rBV	534716	765503	13.70%	0.857%
7	7.713	533	536	539	rBV	1831691	2751366	49.25%	3.081%
8	8.399	593	596	604	rBV	1735097	2361074	42.26%	2.644%
9	9.508	691	693	695	rBV	690255	930835	16.66%	1.042%
10	10.673	793	795	799	rVB	122416	156623	2.80%	0.175%
11	11.291	846	849	852	rBV	2555036	3448313	61.72%	3.861%
12	11.805	892	894	896	rBV	122473	192490	3.45%	0.216%
13	11.988	907	910	912	rBV	472673	635938	11.38%	0.712%
14	12.114	918	921	926	rBV	632726	936624	16.76%	1.049%
15	12.342	938	941	949	rBV3	673657	1254217	22.45%	1.404%
16	12.685	969	971	975	rBV2	99387	219172	3.92%	0.245%
17	12.765	975	978	983	rVB	113047	172585	3.09%	0.193%
18	12.879	985	988	990	rBV	144548	186876	3.34%	0.209%
19	13.177	1011	1014	1016	rBV2	233321	340086	6.09%	0.381%
20	13.234	1016	1019	1023	rVB	267625	423533	7.58%	0.474%
21	13.508	1040	1043	1044	rBV	106246	190981	3.42%	0.214%
22	13.634	1051	1054	1059	rBV	1593524	2184489	39.10%	2.446%
23	13.851	1067	1073	1076	rBV	84667	173563	3.11%	0.194%
24	13.977	1079	1084	1086	rBV2	192893	495810	8.87%	0.555%
25	14.137	1094	1098	1099	rBV	99217	203834	3.65%	0.228%
26	14.354	1115	1117	1119	rBV2	132079	208769	3.74%	0.234%
27	14.457	1124	1126	1130	rVB2	140297	210156	3.76%	0.235%
28	14.571	1134	1136	1138	rVB	151765	203158	3.64%	0.227%
29	14.685	1144	1146	1148	rBV2	129845	181482	3.25%	0.203%
30	14.742	1148	1151	1152	rBV	592822	815006	14.59%	0.913%
31	14.788	1152	1155	1157	rVB	1982875	3054114	54.67%	3.420%
32	14.857	1157	1161	1165	rBV	480392	729781	13.06%	0.817%
33	14.960	1167	1170	1172	rBV	139691	254470	4.55%	0.285%
34	15.165	1185	1188	1189	rVV	152791	265622	4.75%	0.297%

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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

35	15.268	1195	1197	1199	rVV	112071	169410	3.03%	0.190%
36	15.314	1199	1201	1203	rVV3	98087	194373	3.48%	0.218%
37	15.531	1217	1220	1222	rBV	546617	647865	11.60%	0.725%
38	15.577	1222	1224	1228	rVB	764448	858116	15.36%	0.961%
39	15.645	1228	1230	1231	rBV	197989	215069	3.85%	0.241%
40	15.680	1231	1233	1235	rVV2	576033	844511	15.12%	0.946%
41	15.725	1235	1237	1241	rVB	484850	690096	12.35%	0.773%
42	15.988	1255	1260	1262	rBV2	264912	518927	9.29%	0.581%
43	16.034	1262	1264	1267	rVB	365009	490302	8.78%	0.549%
44	16.194	1276	1278	1280	rBV	120696	198685	3.56%	0.222%
45	16.240	1280	1282	1283	rBV	166033	162429	2.91%	0.182%
46	16.343	1288	1291	1293	rBV	495389	739585	13.24%	0.828%
47	16.377	1293	1294	1296	rVV	203194	262992	4.71%	0.294%
48	16.423	1296	1298	1299	rVB	168260	160578	2.87%	0.180%
49	16.468	1299	1302	1304	rVB	355958	559672	10.02%	0.627%
50	16.560	1304	1310	1312	rBV	3901287	5586946	100.00%	6.256%
51	16.651	1315	1318	1319	rBV2	226884	337951	6.05%	0.378%
52	16.674	1319	1320	1323	rVB	353210	447711	8.01%	0.501%
53	16.743	1324	1326	1328	rBV	183368	290618	5.20%	0.325%
54	16.777	1328	1329	1331	rVB2	142423	155099	2.78%	0.174%
55	16.857	1333	1336	1338	rVB	3287676	5230863	93.63%	5.857%
56	16.937	1338	1343	1345	rBV3	190819	433227	7.75%	0.485%
57	17.040	1348	1352	1354	rBV	303432	547176	9.79%	0.613%
58	17.097	1354	1357	1360	rVB	1802410	2329001	41.69%	2.608%
59	17.177	1360	1364	1367	rBV2	315581	660582	11.82%	0.740%
60	17.280	1370	1373	1375	rBV2	349799	791678	14.17%	0.886%
61	17.314	1375	1376	1379	rVB	719703	685520	12.27%	0.768%
62	17.406	1382	1384	1386	rVB	371177	429428	7.69%	0.481%
63	17.451	1386	1388	1391	rBV	603824	901780	16.14%	1.010%
64	17.566	1393	1398	1400	rBV2	455607	745952	13.35%	0.835%
65	17.600	1400	1401	1404	rVB	235211	230682	4.13%	0.258%
66	17.828	1418	1421	1422	rBV3	103406	241977	4.33%	0.271%
67	17.886	1424	1426	1428	rVB3	118607	180023	3.22%	0.202%
68	17.954	1428	1432	1434	rBV3	113507	282640	5.06%	0.316%
69	18.000	1434	1436	1438	rVB	450210	570320	10.21%	0.639%
70	18.114	1444	1446	1447	rBV	361328	485265	8.69%	0.543%
71	18.148	1447	1449	1451	rVV2	386261	578771	10.36%	0.648%

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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	18.183	1451	1452	1453	rVV	300939	231782	4.15%	0.260%
73	18.217	1453	1455	1457	rVB	301603	355747	6.37%	0.398%
74	18.274	1457	1460	1462	rBV	509243	682211	12.21%	0.764%
75	18.446	1471	1475	1476	rVV2	1756151	3164056	56.63%	3.543%
76	18.480	1476	1478	1481	rVV2	1724388	2901489	51.93%	3.249%
77	18.571	1484	1486	1488	rVB2	165974	212460	3.80%	0.238%
78	18.651	1490	1493	1497	rVV3	333848	560351	10.03%	0.627%
79	18.720	1497	1499	1501	rVV	197568	230566	4.13%	0.258%
80	18.766	1501	1503	1506	rVB3	217170	287291	5.14%	0.322%
81	18.949	1516	1519	1521	rVV	503770	649488	11.63%	0.727%
82	18.994	1521	1523	1524	rVB2	207991	265821	4.76%	0.298%
83	19.029	1524	1526	1527	rBV	165181	201880	3.61%	0.226%
84	19.063	1527	1529	1530	rVV	224347	259560	4.65%	0.291%
85	19.097	1530	1532	1539	rVB5	207148	570712	10.22%	0.639%
86	19.371	1554	1556	1559	rVB3	111136	215765	3.86%	0.242%
87	19.554	1570	1572	1574	rBV	316069	447627	8.01%	0.501%
88	19.726	1584	1587	1592	rBV	1514806	3721154	66.60%	4.167%
89	19.829	1594	1596	1598	rVV	410239	511990	9.16%	0.573%
90	20.012	1609	1612	1615	rBV	866205	1259959	22.55%	1.411%
91	20.069	1615	1617	1620	rVV	1232861	1428151	25.56%	1.599%
92	20.126	1620	1622	1623	rBV	229047	337429	6.04%	0.378%
93	20.937	1691	1693	1696	rBV2	89846	192953	3.45%	0.216%
94	21.097	1705	1707	1710	rVB2	117205	197451	3.53%	0.221%
95	21.349	1726	1729	1732	rBV	557167	995501	17.82%	1.115%
96	21.475	1738	1740	1742	rBV	92882	165033	2.95%	0.185%
97	21.532	1742	1745	1747	rVB2	97022	181676	3.25%	0.203%
98	21.692	1757	1759	1763	rVB	376278	702477	12.57%	0.787%
99	21.909	1775	1778	1784	rVB2	94798	252852	4.53%	0.283%
100	23.498	1914	1917	1922	rVB	104474	268640	4.81%	0.301%

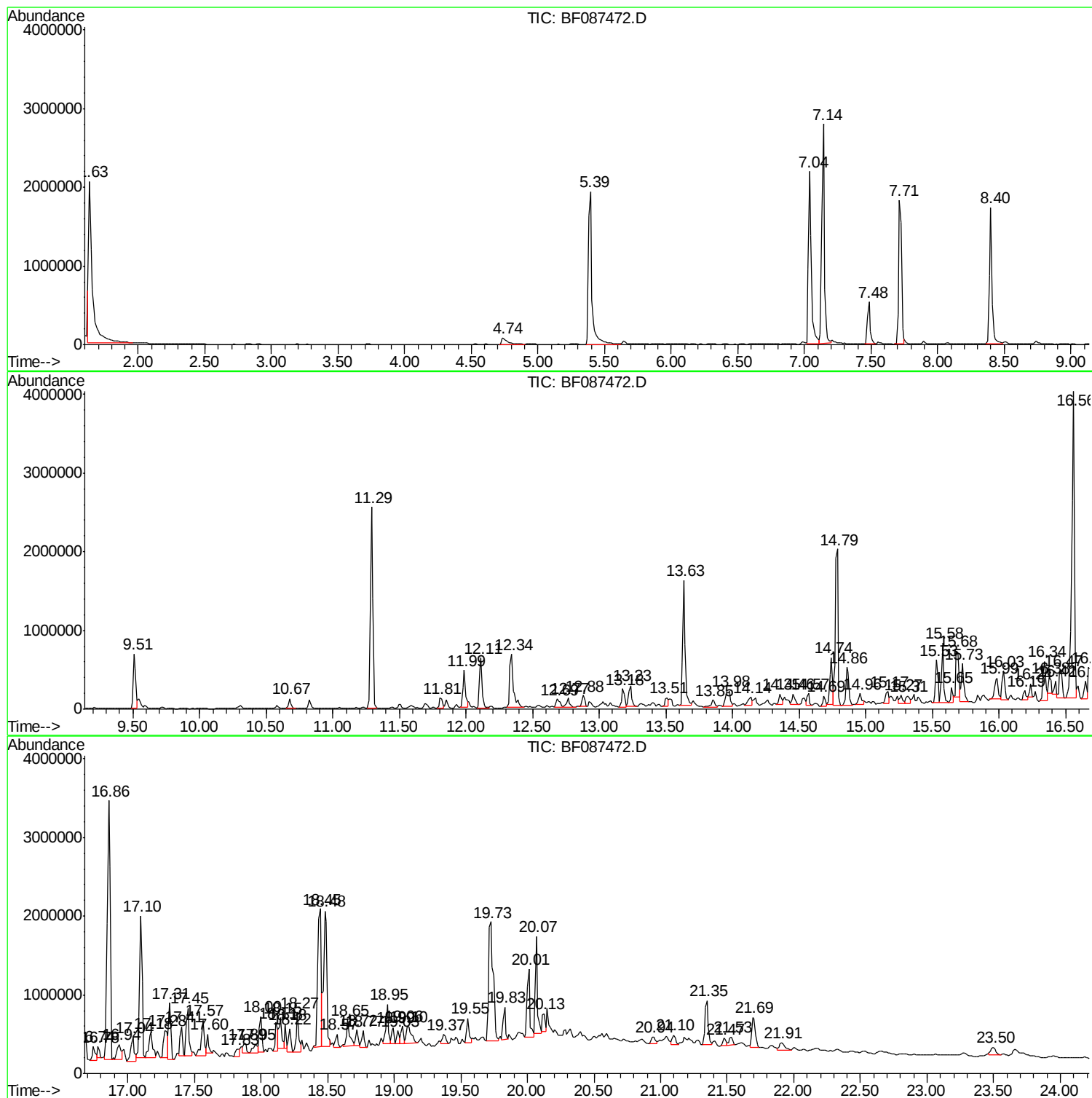
Sum of corrected areas: 89308269

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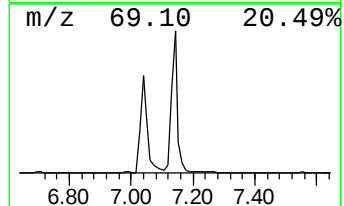
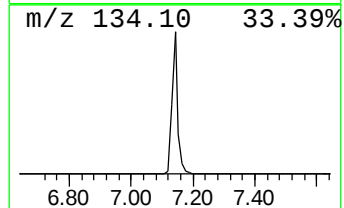
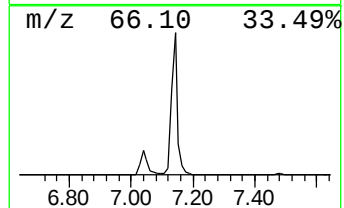
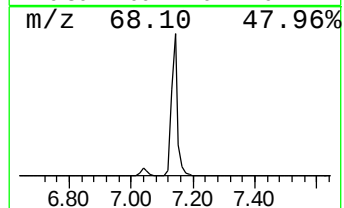
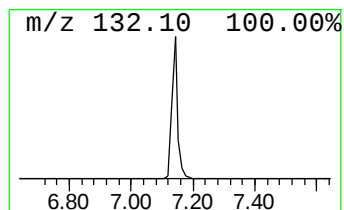
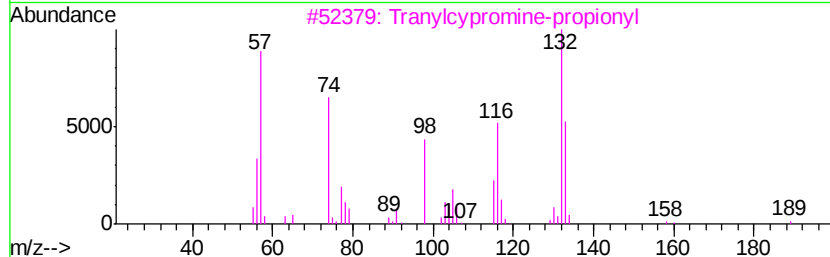
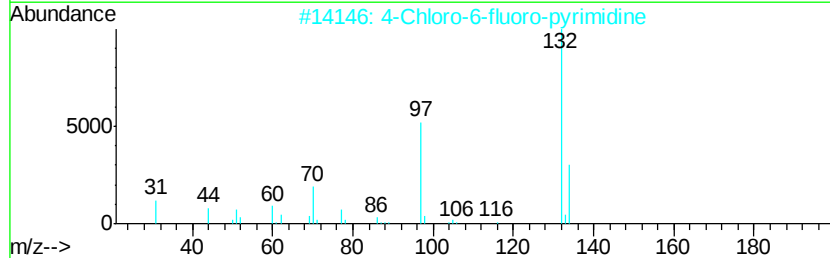
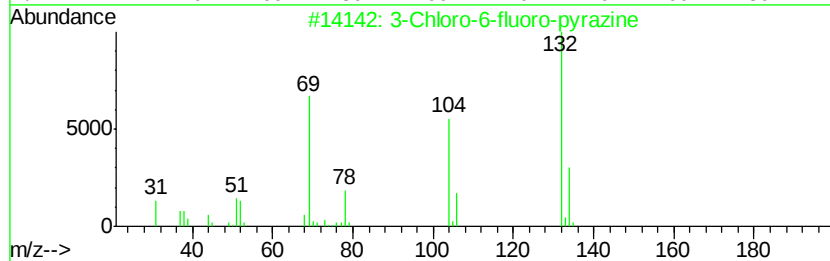
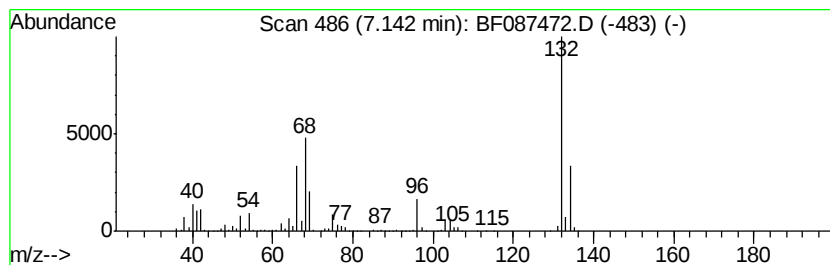
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown7.14 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.14	98.98 ng	3788520	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		Tranvlcypropine-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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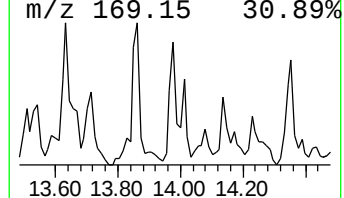
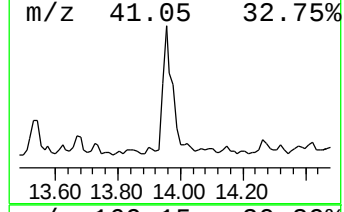
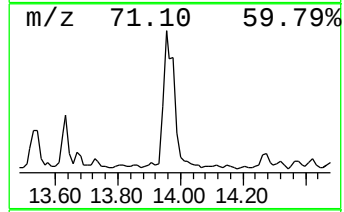
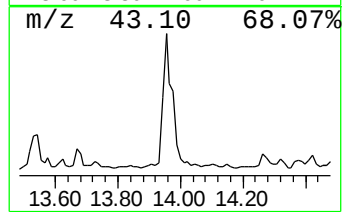
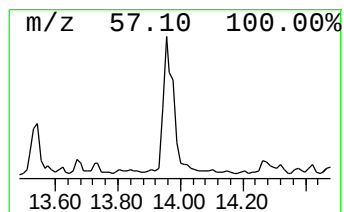
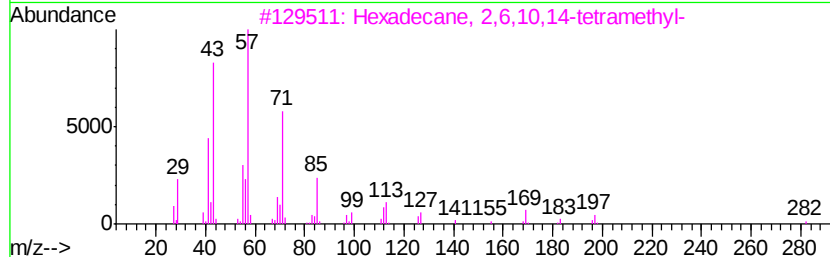
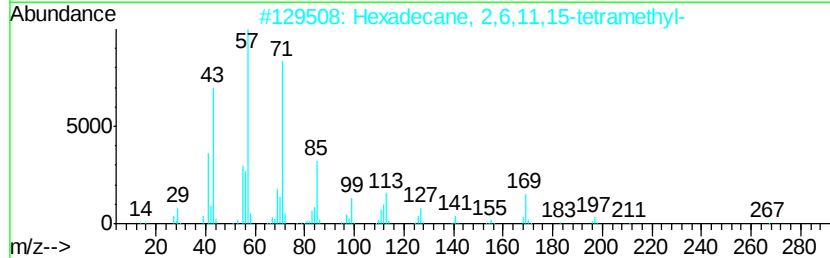
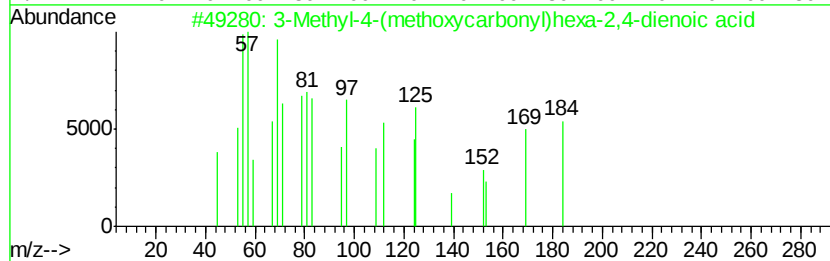
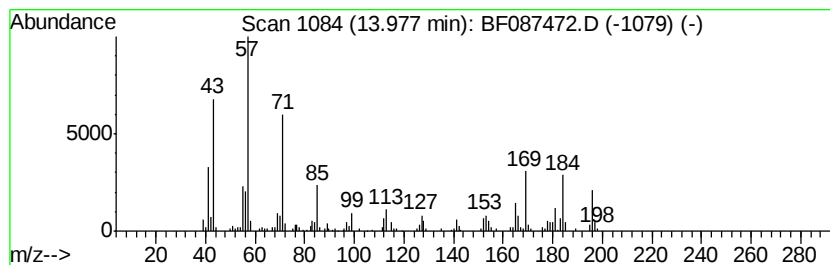
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TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 3-Methyl-4-(methoxycarbonyl... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.98	12.17 ng	495810	Phenanthrene-d10	14.74	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methyl-4-(methoxycarbonyl)hexa...	184	C9H12O4	1000104-10-8	70
2	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	45
3	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	43
4	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	38
5	Heptacosane	380	C27H56	000593-49-7	38



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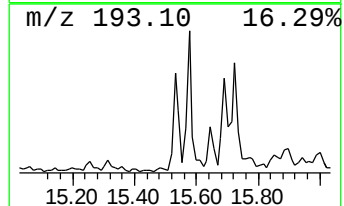
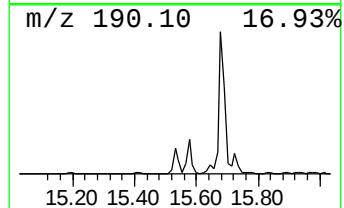
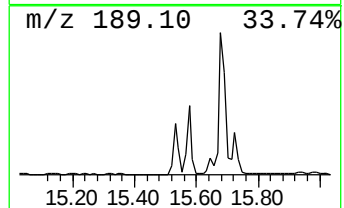
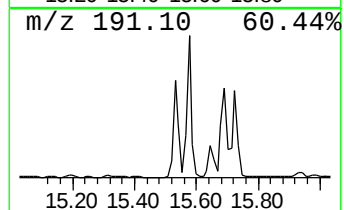
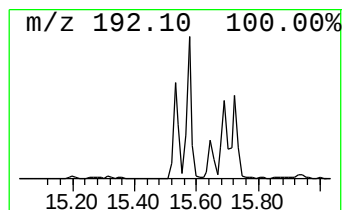
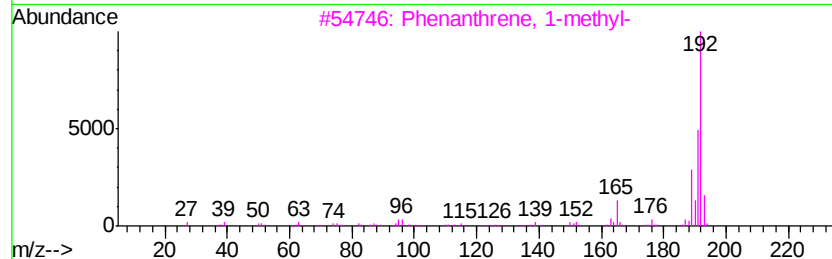
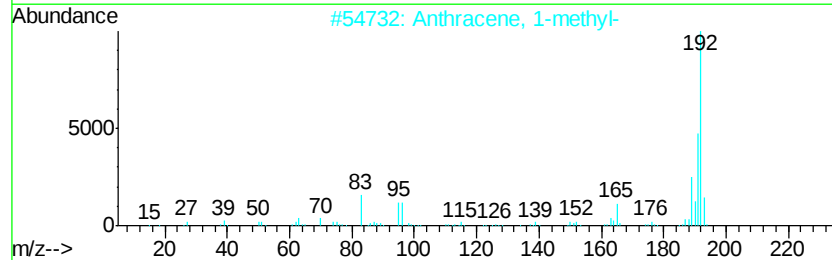
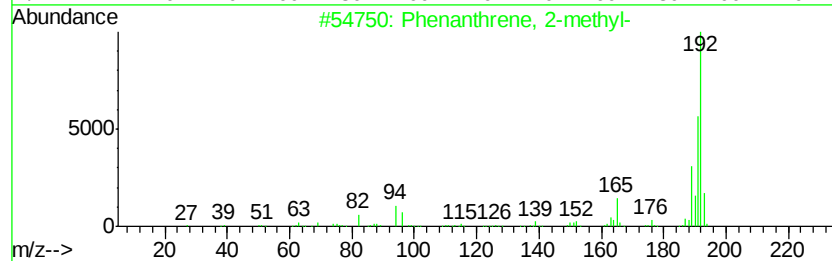
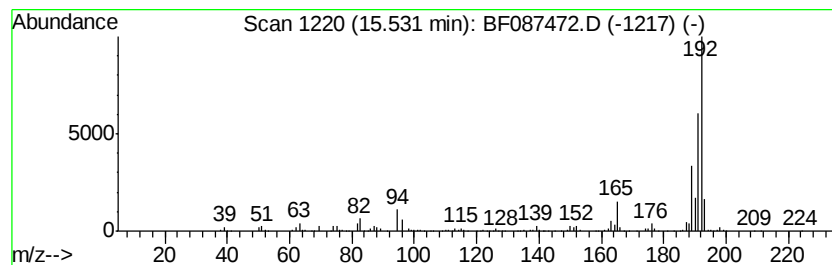
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	15.90 ng	647865	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		1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
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Acq On : 28 May 2016 7:45
Operator : UM/SJ
Sample : H3190-19
Misc :
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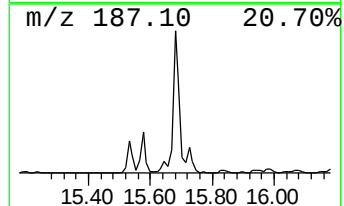
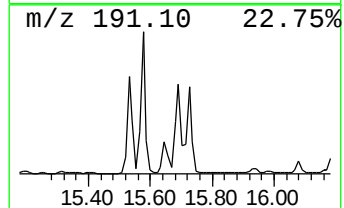
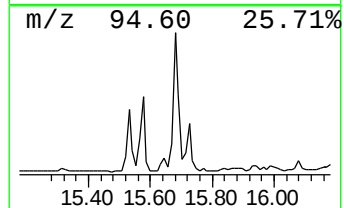
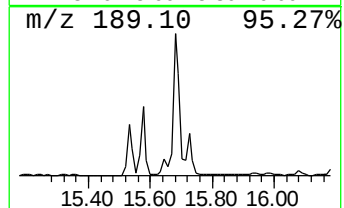
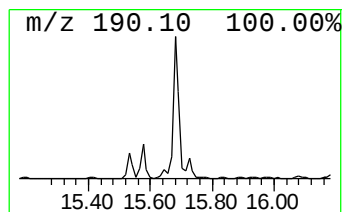
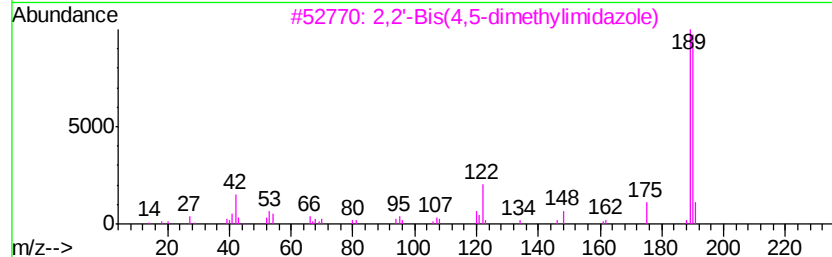
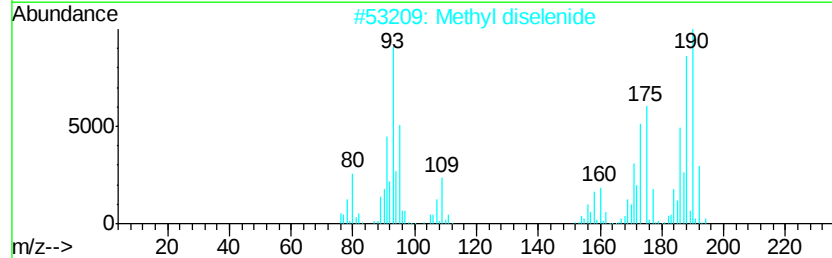
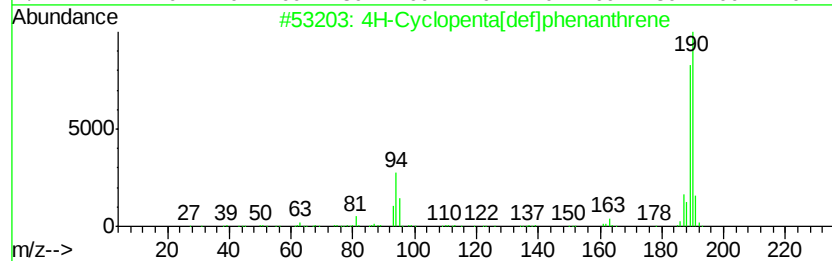
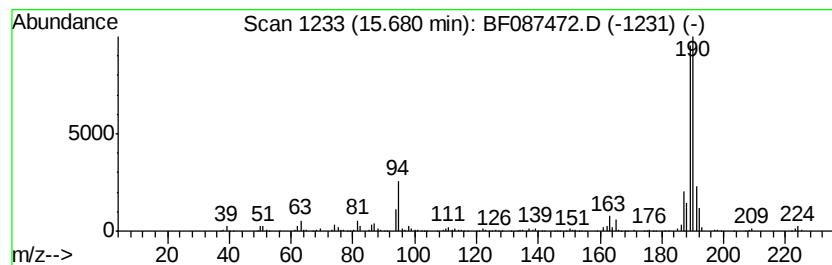
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.68	20.72 ng	844511	Phenanthrene-d10	14.74		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2		Methyl diselenide	190	C2H6Se2	007101-31-7	49
3		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
4		1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	35
5		Benzo[1,2-b:4,3-b']dithiophene	190	C10H6S2	000210-80-0	30



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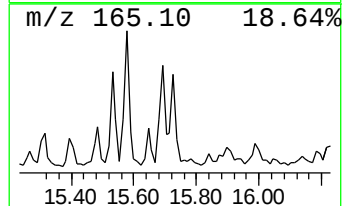
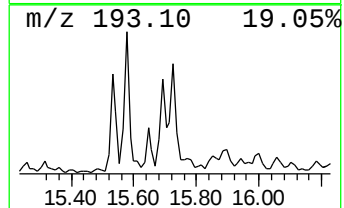
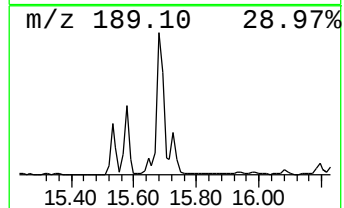
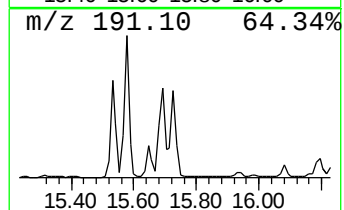
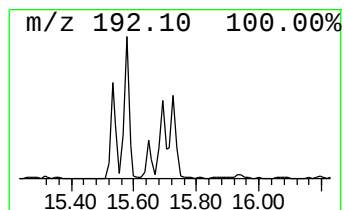
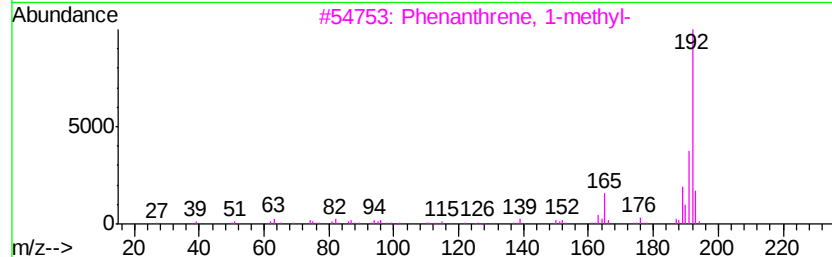
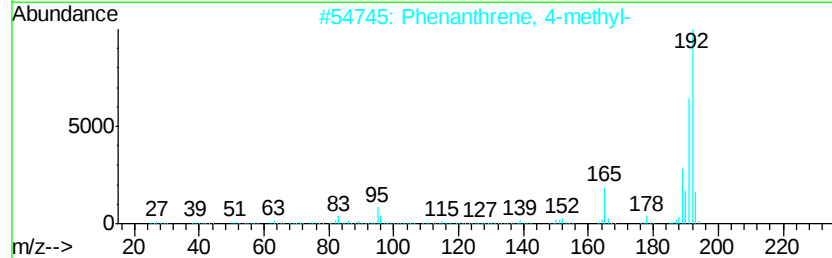
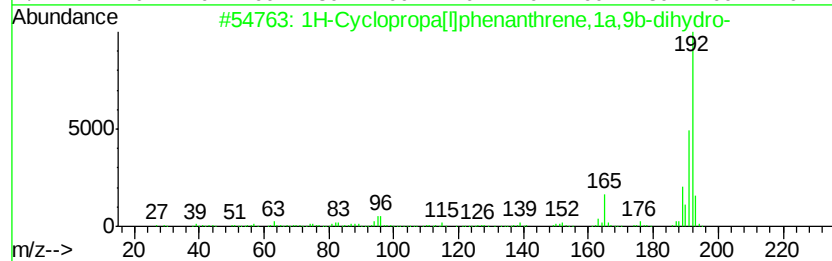
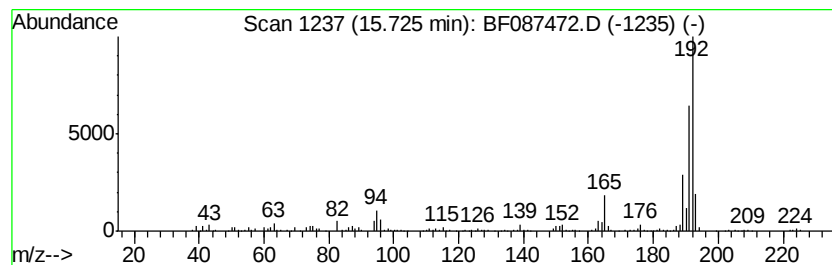
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.73	16.93 ng	690096	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	96
2		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087472.D
Acq On : 28 May 2016 7:45
Operator : UM/SJ
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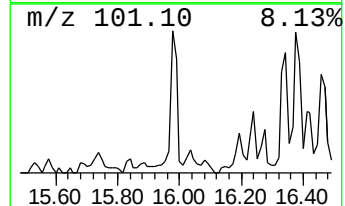
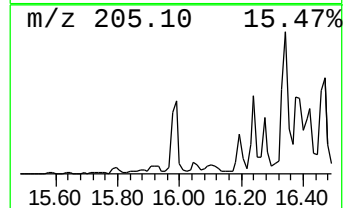
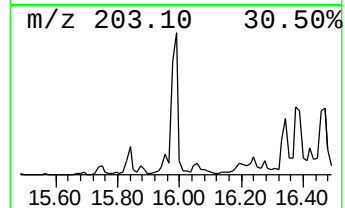
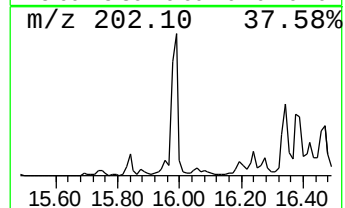
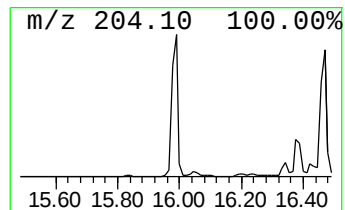
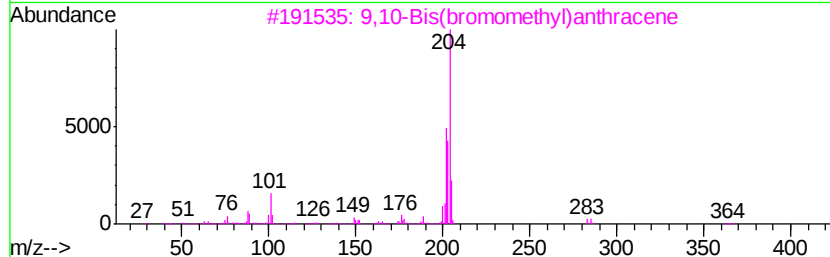
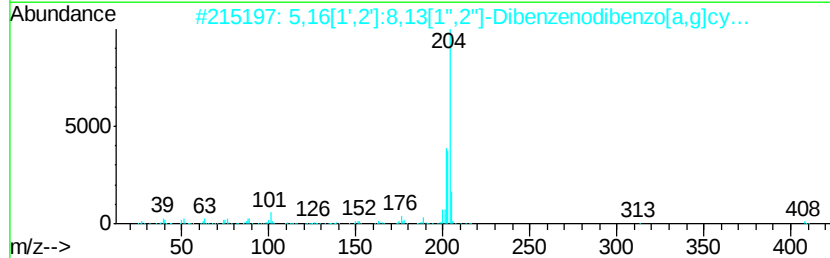
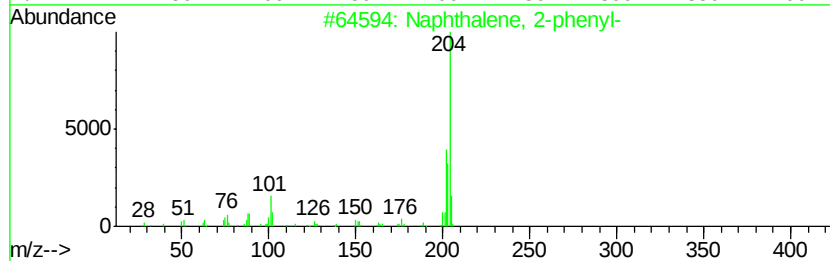
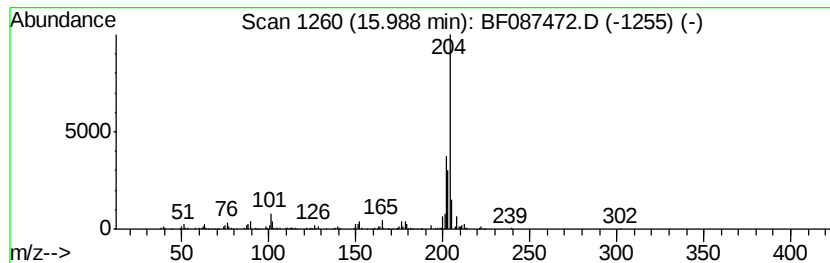
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	12.73 ng	518927	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	78
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
5		Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	53



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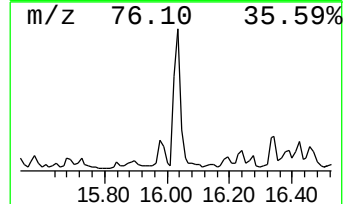
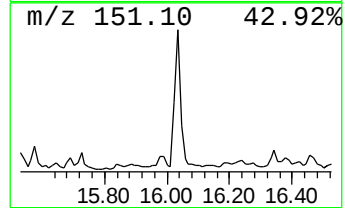
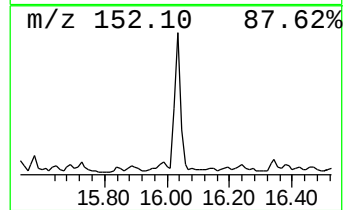
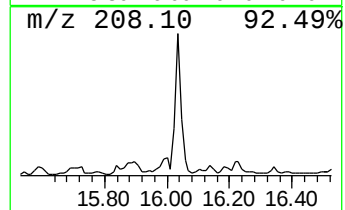
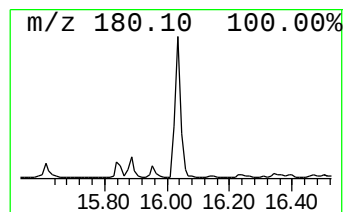
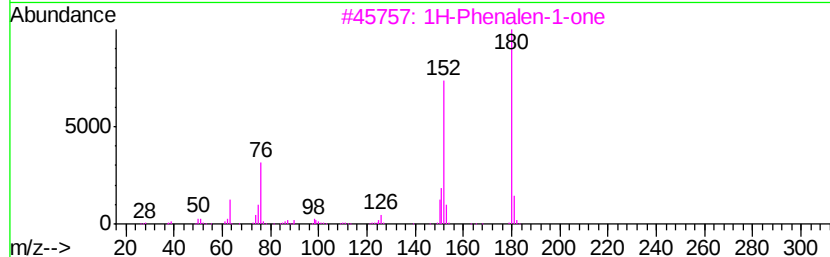
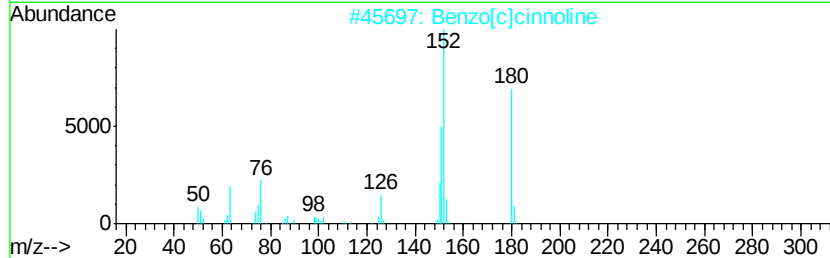
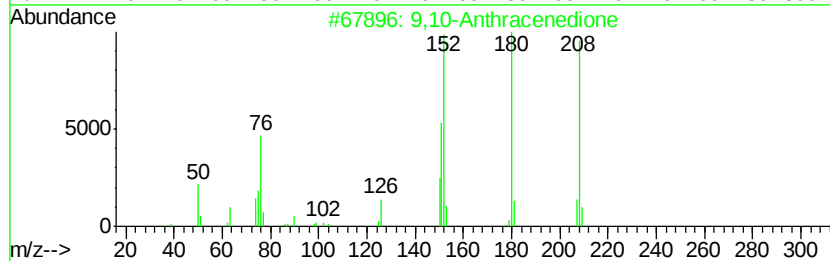
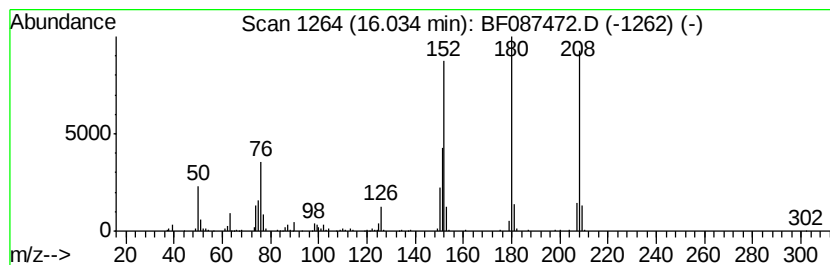
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	12.03 ng	490302	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	70
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
4		9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	64
5		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
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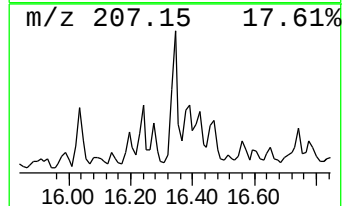
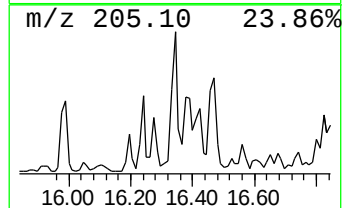
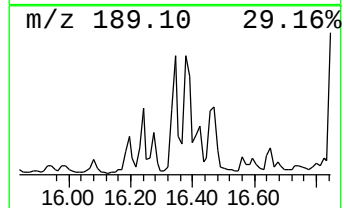
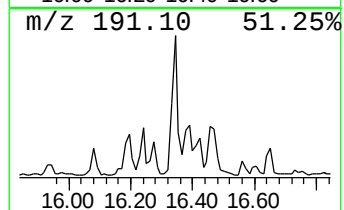
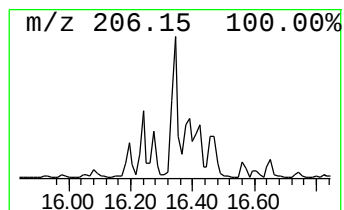
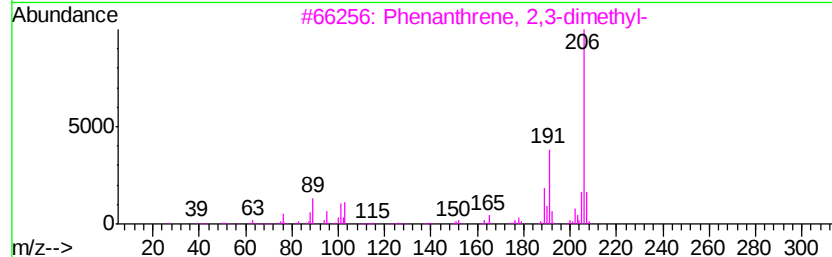
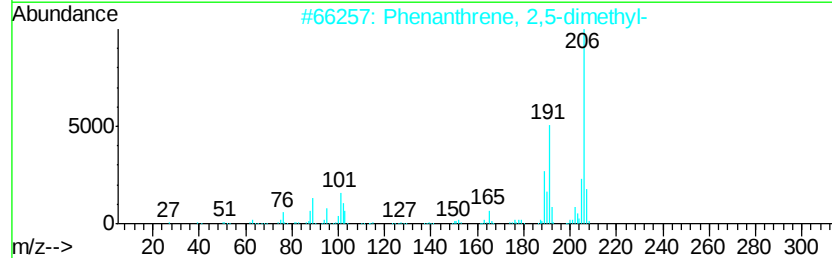
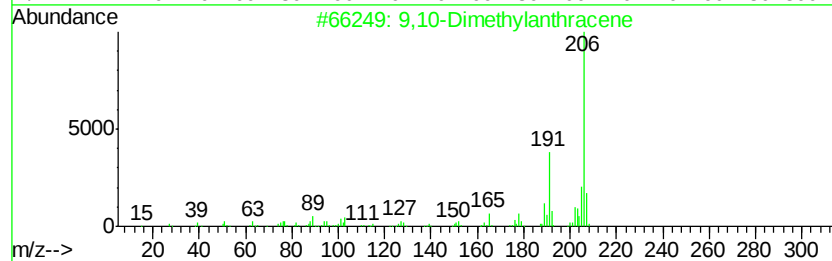
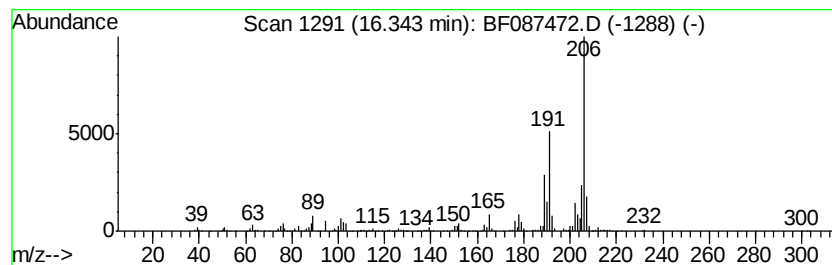
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Peak Number 11 9,10-Dimethylantracene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.34	18.15 ng	739585	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Dimethylantracene	206	C16H14	000781-43-1	96
2		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4		di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5		Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087472.D
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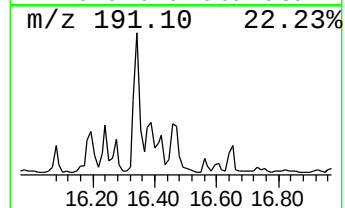
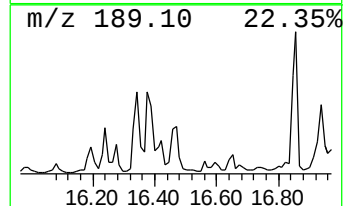
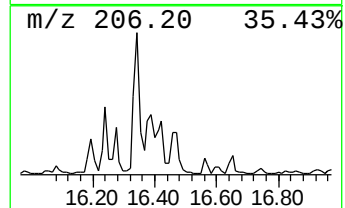
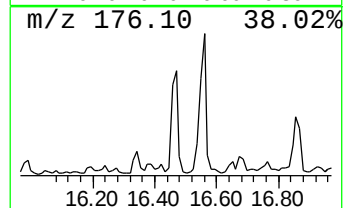
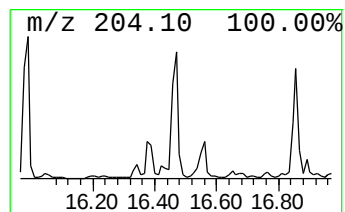
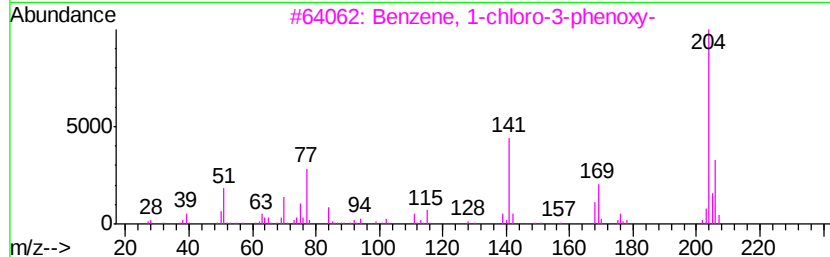
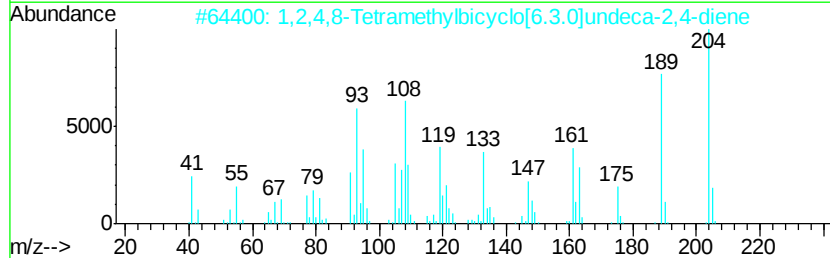
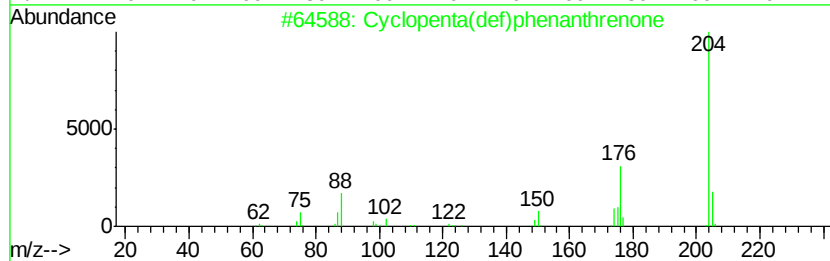
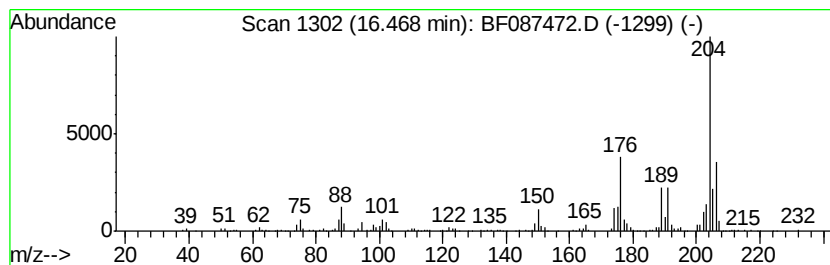
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TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.47	13.73 ng	559672	Phenanthrene-d10	14.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	60
3		Benzene, 1-chloro-3-phenoxy-	204	C12H9ClO	006452-49-9	47
4		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	47
5		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43



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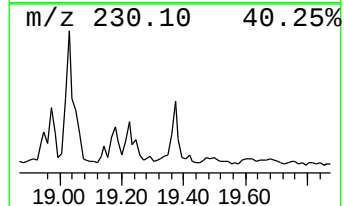
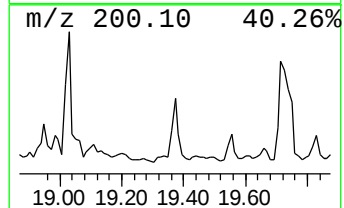
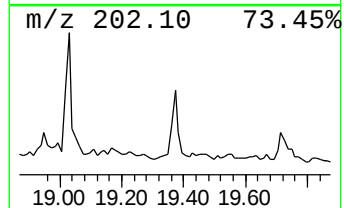
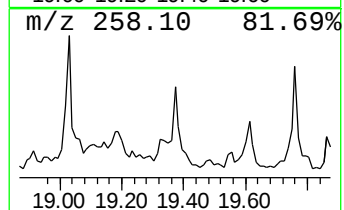
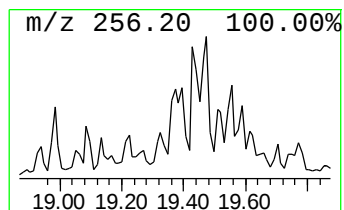
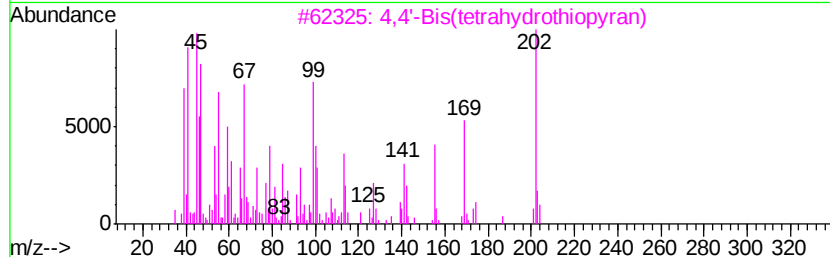
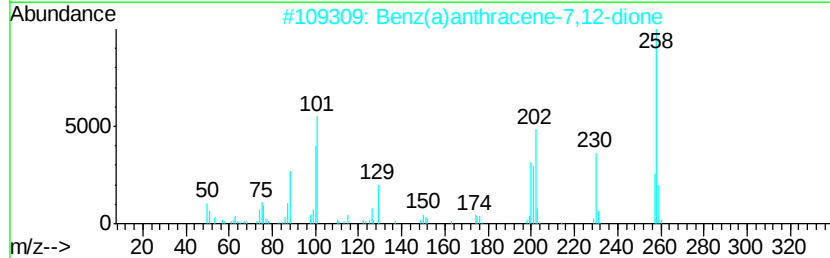
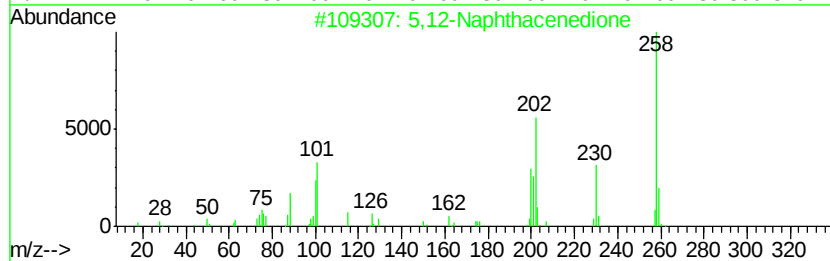
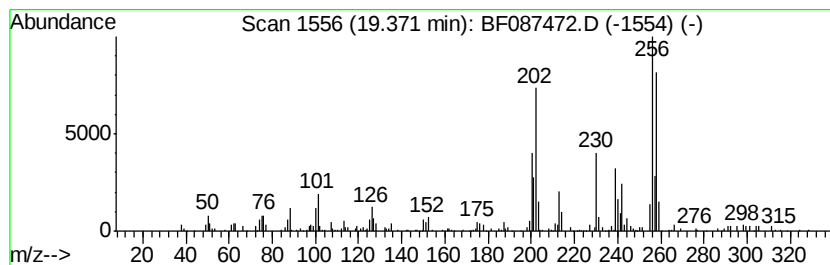
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ClientSampleId :
CHS-STA-1685(0-4)

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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 13 5,12-Naphthacenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.		
19.37	12.79 ng	215765	Perylene-d12	20.13		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	90	
2	Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	64	
3	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	56	
4	Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	56	
5	5-Bromobenzo(b)thiophene-3-carbo...	256	C9H5BrO2S	007312-24-5	43	



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087472.D
Acq On : 28 May 2016 7:45
Operator : UM/SJ
Sample : H3190-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1685(0-4)

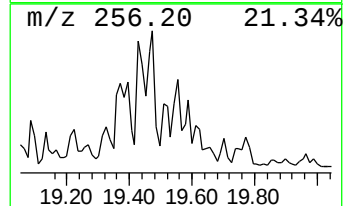
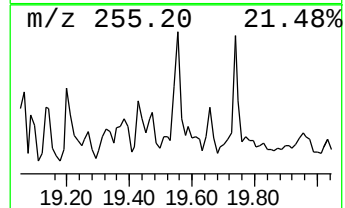
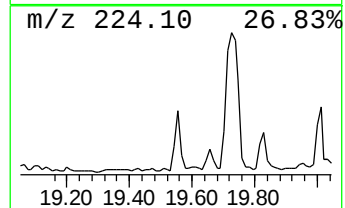
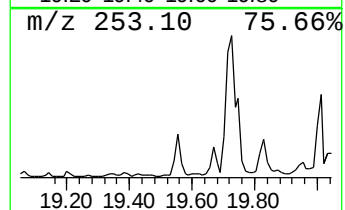
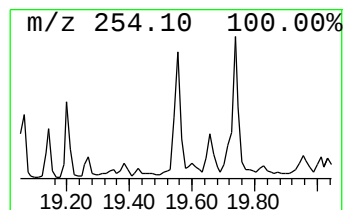
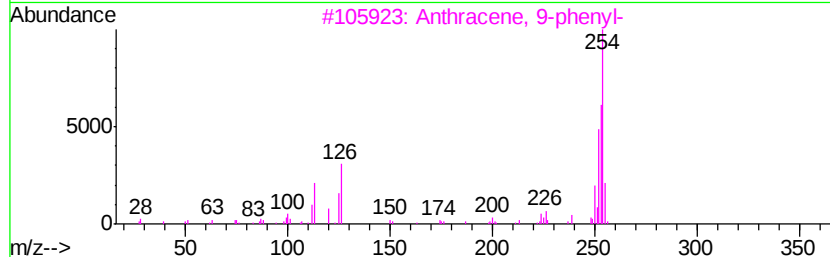
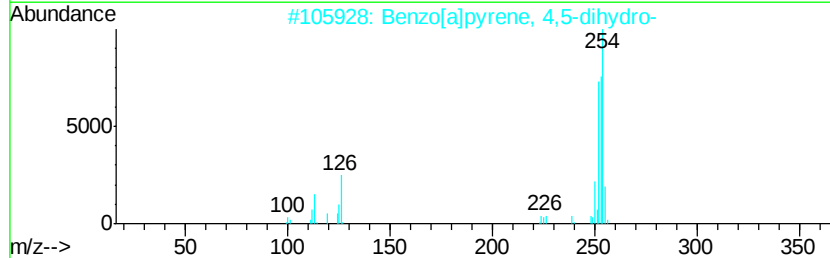
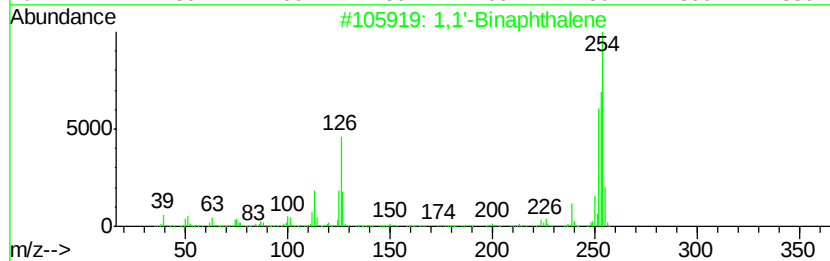
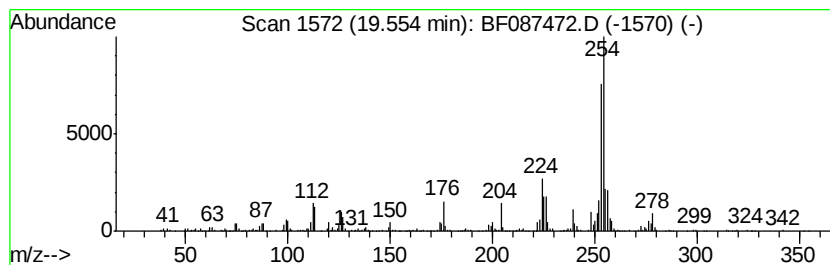
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 1,1'-Binaphthalene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	26.53 ng	447627	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Binaphthalene	254	C20H14	000604-53-5	70
2		Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	64
3		Anthracene, 9-phenyl-	254	C20H14	000602-55-1	62
4		1,2'-Binaphthalene	254	C20H14	004325-74-0	62
5		9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	58



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087472.D
Acq On : 28 May 2016 7:45
Operator : UM/SJ
Sample : H3190-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CHS-STA-1685(0-4)

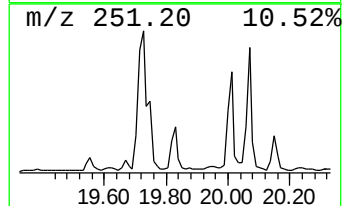
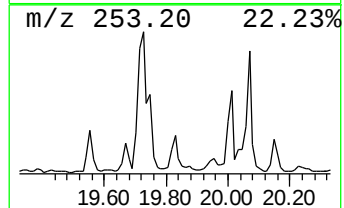
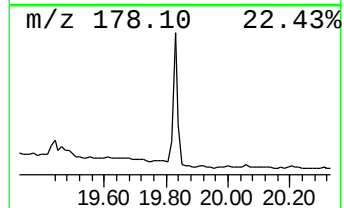
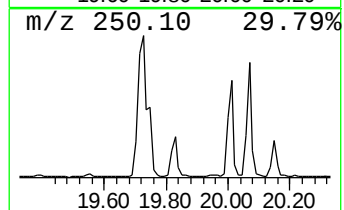
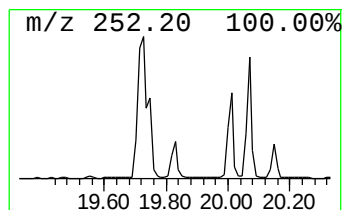
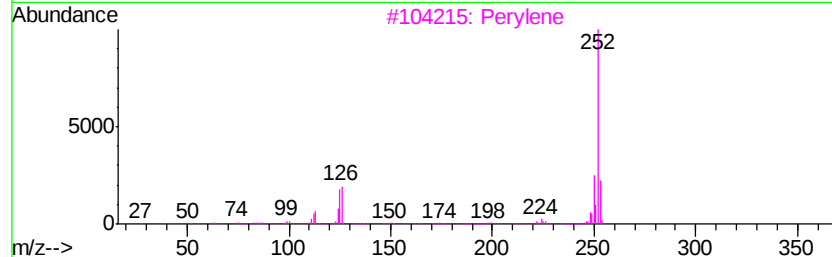
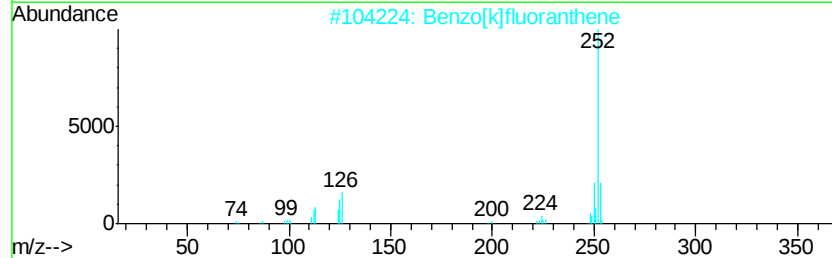
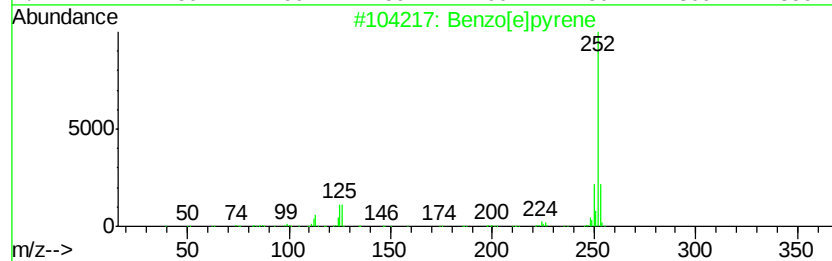
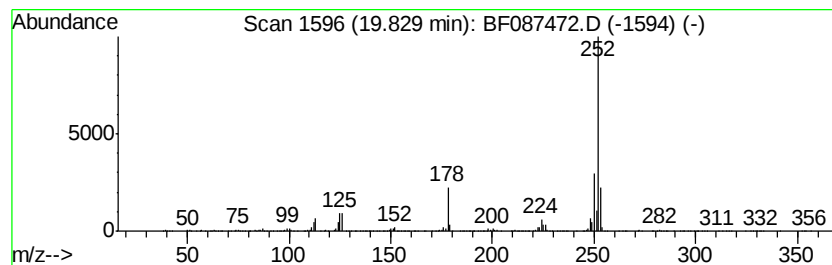
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.83	30.35 ng	511990	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3		Perylene	252	C20H12	000198-55-0	93
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	92
5		Benzo[a]pyrene	252	C20H12	000050-32-8	86



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
Data File : BF087472.D
Acq On : 28 May 2016 7:45
Operator : UM/SJ
Sample : H3190-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CHS-STA-1685(0-4)

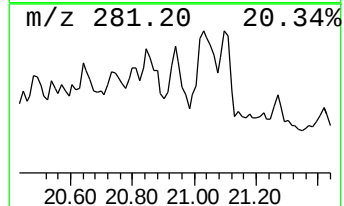
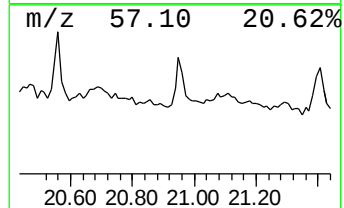
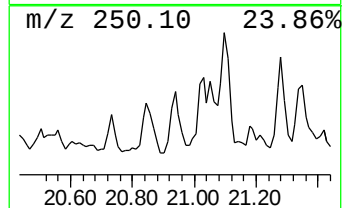
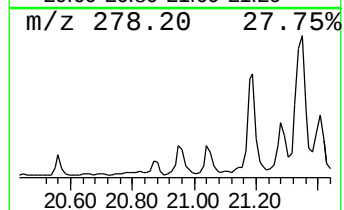
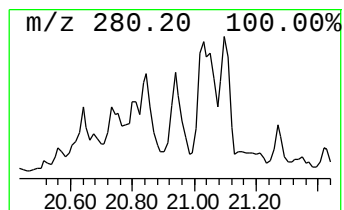
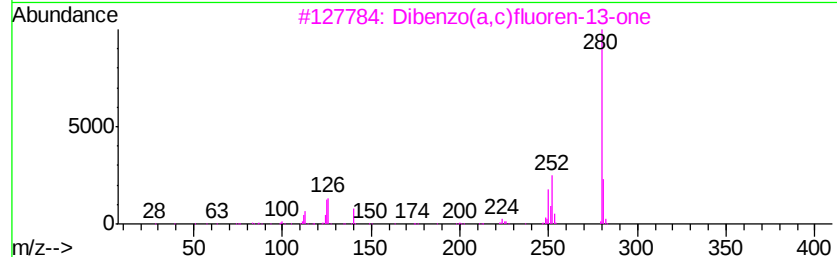
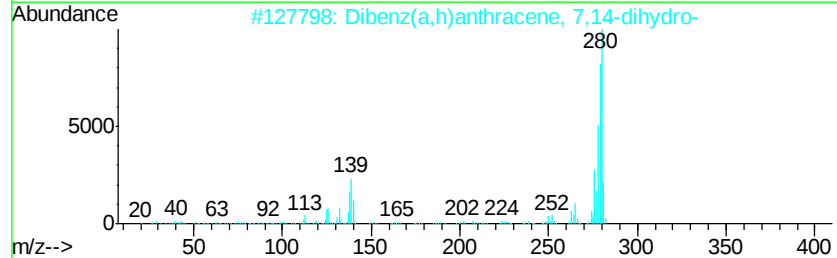
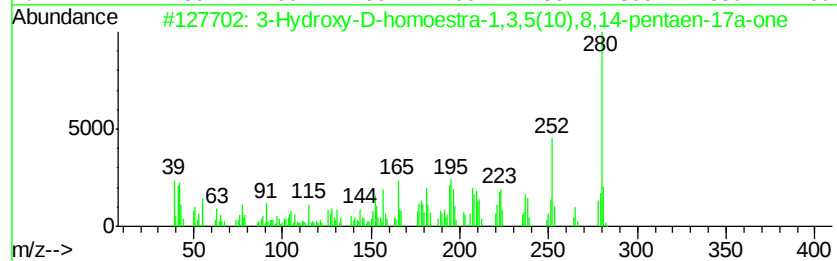
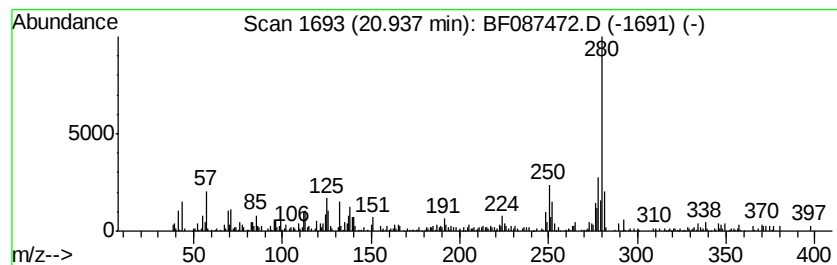
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 3-Hydroxy-D-homoestra-1,3,5... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.94	11.44 ng	192953	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Hydroxy-D-homoestra-1,3,5(10),...	280	C19H20O2	1000215-90-6	78
2		Dibenz(a,h)anthracene, 7,14-dihy...	280	C22H16	057816-08-7	70
3		Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	64
4		Benzo[alphenazine-9,10-dicarboni...	280	C18H8N4	1000276-19-4	55
5		Dibenz[a,j]anthracene-5,6-quinone	308	C22H12O2	052755-66-5	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087472.D
Acq On : 28 May 2016 7:45
Operator : UM/SJ
Sample : H3190-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CHS-STA-1685(0-4)

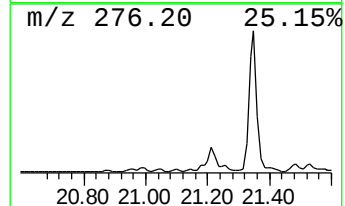
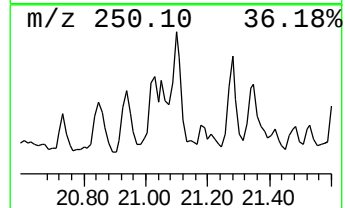
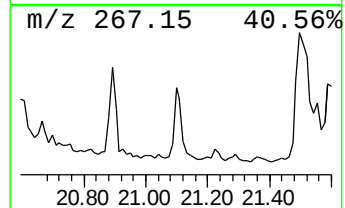
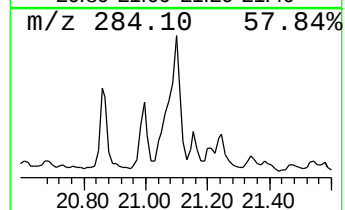
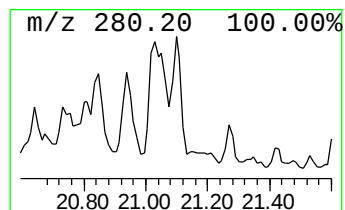
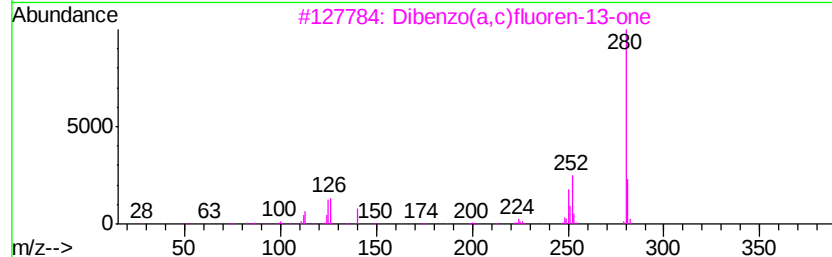
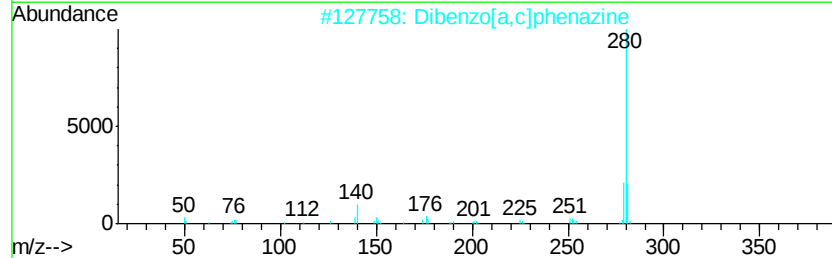
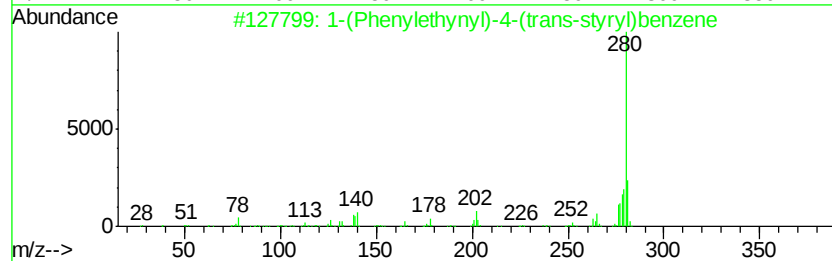
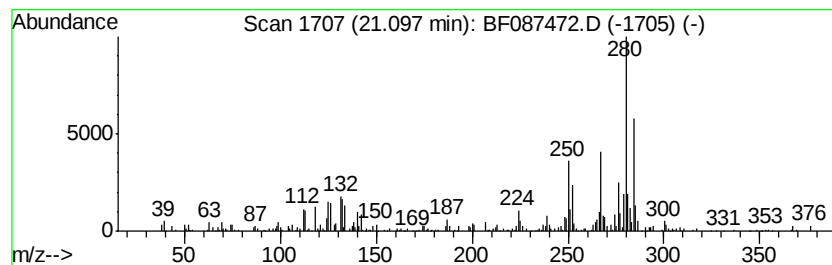
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 unknown21.10 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.10	11.70 ng	197451	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-(Phenylethynyl)-4-(trans-styryl)-	280	C22H16	173035-17-1	46
2		Dibenzo[a,c]phenazine	280	C20H12N2	000215-64-5	42
3		Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	41
4		1H-Indene, 1-(diphenylmethylene)-	280	C22H16	013245-90-4	38
5		Pentacene, 6,13-dihydro-	280	C22H16	013579-08-3	38



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
Data File : BF087472.D
Acq On : 28 May 2016 7:45
Operator : UM/SJ
Sample : H3190-19
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CHS-STA-1685(0-4)

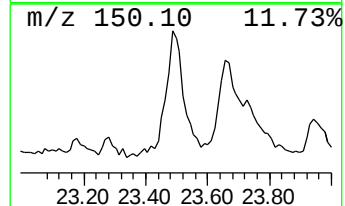
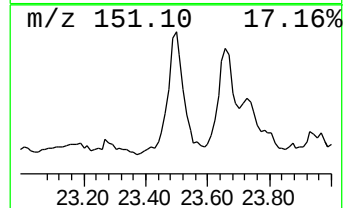
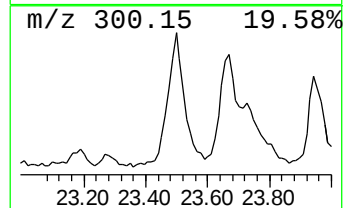
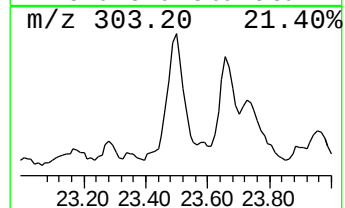
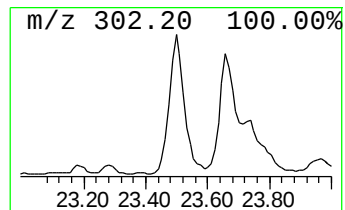
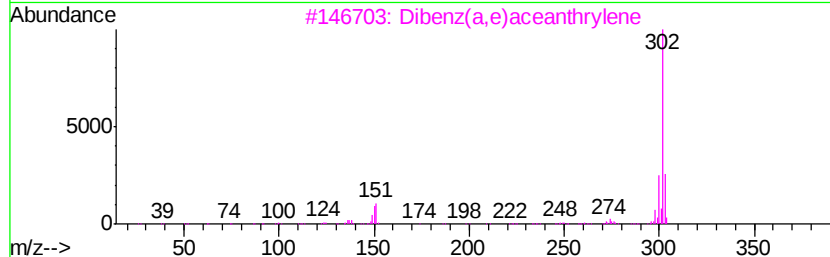
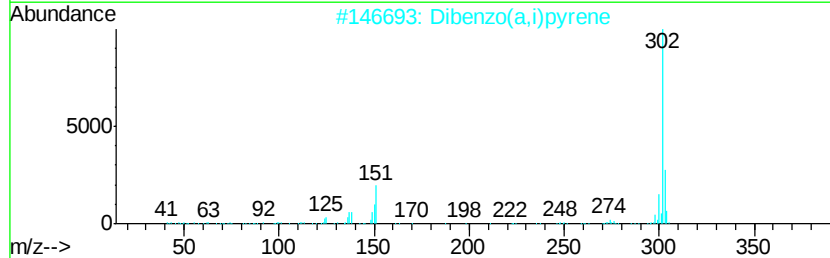
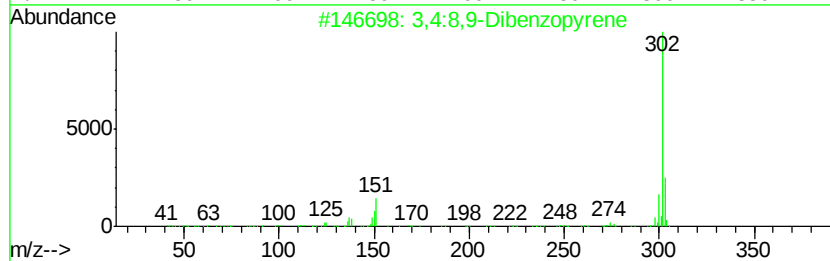
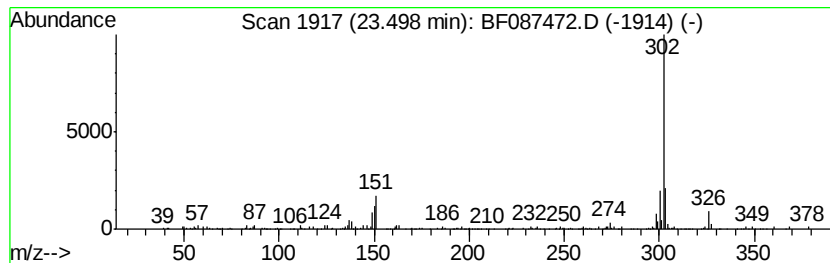
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.50	15.92 ng	268640	Perylene-d12	20.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	93
2		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	89
3		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	86
4		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	76
5		Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052716\
 Data File : BF087472.D
 Acq On : 28 May 2016 7:45
 Operator : UM/SJ
 Sample : H3190-19
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 CHS-STA-1685(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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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3-Methyl-4-(metho...	13.98	12.2	ng	495810	4	14.74	815006	20.0
Phenanthrene, 2-m...	15.53	15.9	ng	647865	4	14.74	815006	20.0
4H-Cyclopenta[def...	15.68	20.7	ng	844511	4	14.74	815006	20.0
1H-Cyclopropa[l]p...	15.73	16.9	ng	690096	4	14.74	815006	20.0
Naphthalene, 2-ph...	15.99	12.7	ng	518927	4	14.74	815006	20.0
9,10-Anthracenedione	16.03	12.0	ng	490302	4	14.74	815006	20.0
9,10-Dimethylanth...	16.34	18.1	ng	739585	4	14.74	815006	20.0
Cyclopenta(def)ph...	16.47	13.7	ng	559672	4	14.74	815006	20.0
5,12-Naphthacened...	19.37	12.8	ng	215765	6	20.13	337429	20.0
1,1'-Binaphthalene	19.55	26.5	ng	447627	6	20.13	337429	20.0
Benzo[e]pyrene	19.83	30.4	ng	511990	6	20.13	337429	20.0
3-Hydroxy-D-homoe...	20.94	11.4	ng	192953	6	20.13	337429	20.0
unknown21.10	21.10	11.7	ng	197451	6	20.13	337429	20.0
3,4:8,9-Dibenzopy...	23.50	15.9	ng	268640	6	20.13	337429	20.0