

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
 Data File : BF087381.D
 Acq On : 25 May 2016 20:10
 Operator : UM/SJ
 Sample : H3211-13
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TA-1330+60(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	1.644	4	5	38	rVB	3214892	5749555	100.00%	11.447%
2	4.753	274	277	290	rBV	83480	196312	3.41%	0.391%
3	5.416	332	335	355	rBV	1481876	2813541	48.93%	5.602%
4	7.062	477	479	486	rBV	2059977	3156348	54.90%	6.284%
5	7.176	486	489	500	rVB	2078524	3172247	55.17%	6.316%
6	7.519	516	519	524	rBV	582642	778330	13.54%	1.550%
7	7.747	536	539	542	rBV	1367578	2106076	36.63%	4.193%
8	8.433	595	599	601	rBV	1513027	2012526	35.00%	4.007%
9	8.765	625	628	633	rBV	39122	70001	1.22%	0.139%
10	9.542	693	696	699	rBV	715870	975025	16.96%	1.941%
11	11.325	849	852	855	rBV	2468143	3184651	55.39%	6.341%
12	12.011	910	912	915	rBV	296528	446920	7.77%	0.890%
13	12.148	921	924	928	rBV	254571	388485	6.76%	0.773%
14	12.376	941	944	951	rBV2	658810	1029431	17.90%	2.050%
15	12.799	977	981	985	rVB3	19632	57988	1.01%	0.115%
16	13.222	1015	1018	1020	rBV	109464	164829	2.87%	0.328%
17	13.268	1020	1022	1026	rVB	43878	70406	1.22%	0.140%
18	13.576	1044	1049	1051	rBV3	48896	129364	2.25%	0.258%
19	13.668	1054	1057	1060	rBV	1292033	1725368	30.01%	3.435%
20	13.897	1070	1077	1079	rVB3	33328	67955	1.18%	0.135%
21	13.988	1082	1085	1089	rBV	133883	268715	4.67%	0.535%
22	14.388	1118	1120	1124	rVV4	31918	83631	1.45%	0.167%
23	14.719	1146	1149	1151	rBV	77166	93503	1.63%	0.186%
24	14.765	1151	1153	1155	rVV	527263	783607	13.63%	1.560%
25	14.811	1155	1157	1160	rVB	354638	451889	7.86%	0.900%
26	14.891	1161	1164	1167	rBV	247968	306145	5.32%	0.610%
27	15.394	1206	1208	1209	rBV	54785	59024	1.03%	0.118%
28	15.565	1220	1223	1225	rBV	92590	125062	2.18%	0.249%
29	15.600	1225	1226	1229	rVV	122404	149643	2.60%	0.298%
30	15.668	1230	1232	1234	rVV	57548	85652	1.49%	0.171%
31	15.714	1234	1236	1238	rVV	158560	229062	3.98%	0.456%
32	15.760	1238	1240	1245	rVB2	117282	196722	3.42%	0.392%
33	15.908	1251	1253	1257	rVV3	27010	58229	1.01%	0.116%
34	16.011	1257	1262	1264	rVV3	77799	163488	2.84%	0.326%

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35	16.057	1264	1266	1270	rVB2	64021	97721	1.70%	0.195%
36	16.217	1278	1280	1283	rBV2	27057	61394	1.07%	0.122%
37	16.365	1289	1293	1295	rBV	142276	221382	3.85%	0.441%
38	16.411	1295	1297	1298	rVV	57196	82972	1.44%	0.165%
39	16.480	1301	1303	1306	rVB	127963	159555	2.78%	0.318%
40	16.571	1306	1311	1313	rBV	1472638	1650165	28.70%	3.285%
41	16.674	1317	1320	1321	rBV2	55747	86498	1.50%	0.172%
42	16.697	1321	1322	1326	rVB	139072	197344	3.43%	0.393%
43	16.765	1326	1328	1330	rBV2	65997	112854	1.96%	0.225%
44	16.880	1335	1338	1340	rVV	1103593	1646075	28.63%	3.277%
45	16.960	1340	1345	1346	rVV3	49062	103670	1.80%	0.206%
46	16.994	1346	1348	1350	rVB	61729	78840	1.37%	0.157%
47	17.063	1351	1354	1355	rBV	87625	118287	2.06%	0.236%
48	17.131	1356	1360	1362	rVV	1618893	2256345	39.24%	4.492%
49	17.188	1362	1365	1369	rVV2	101452	208070	3.62%	0.414%
50	17.303	1372	1375	1377	rBV2	125336	296404	5.16%	0.590%
51	17.337	1377	1378	1381	rVB	204654	196556	3.42%	0.391%
52	17.428	1384	1386	1387	rVV	110900	133266	2.32%	0.265%
53	17.474	1387	1390	1393	rVV2	180919	318138	5.53%	0.633%
54	17.588	1395	1400	1402	rVV2	119515	231821	4.03%	0.462%
55	17.623	1402	1403	1406	rVB2	79407	81100	1.41%	0.161%
56	17.794	1414	1418	1420	rBV2	71098	122613	2.13%	0.244%
57	17.851	1420	1423	1424	rBV3	42654	83419	1.45%	0.166%
58	18.011	1435	1437	1440	rVV	172078	207072	3.60%	0.412%
59	18.137	1446	1448	1450	rVV2	125893	244567	4.25%	0.487%
60	18.206	1452	1454	1455	rVV	110299	141075	2.45%	0.281%
61	18.240	1455	1457	1459	rVB	85839	123208	2.14%	0.245%
62	18.286	1459	1461	1463	rBV	151255	185552	3.23%	0.369%
63	18.331	1463	1465	1467	rBV	44711	62036	1.08%	0.124%
64	18.388	1468	1470	1473	rVV3	76112	135199	2.35%	0.269%
65	18.457	1473	1476	1478	rVV2	962151	1862649	32.40%	3.709%
66	18.503	1478	1480	1482	rVV	791666	959683	16.69%	1.911%
67	18.537	1482	1483	1485	rVV2	55748	68459	1.19%	0.136%
68	18.594	1485	1488	1490	rVV2	62143	96806	1.68%	0.193%
69	18.628	1490	1491	1493	rVV2	35504	64422	1.12%	0.128%
70	18.663	1493	1494	1499	rVV2	140923	230647	4.01%	0.459%
71	18.743	1499	1501	1503	rVV	72120	109540	1.91%	0.218%

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72	18.788	1503	1505	1507	rVB2	64269	105646	1.84%	0.210%
73	18.926	1515	1517	1518	rBV	62544	88781	1.54%	0.177%
74	18.971	1518	1521	1523	rVV	187418	287067	4.99%	0.572%
75	19.006	1523	1524	1526	rVV	68166	84003	1.46%	0.167%
76	19.086	1529	1531	1532	rVB	73563	83092	1.45%	0.165%
77	19.120	1532	1534	1537	rBV3	75204	203963	3.55%	0.406%
78	19.383	1555	1557	1561	rVB3	59465	95871	1.67%	0.191%
79	19.566	1571	1573	1575	rVB	98428	118039	2.05%	0.235%
80	19.737	1585	1588	1593	rBV	808036	1783578	31.02%	3.551%
81	19.840	1595	1597	1600	rVB2	218959	255827	4.45%	0.509%
82	20.023	1611	1613	1616	rBV	495067	566074	9.85%	1.127%
83	20.080	1616	1618	1621	rBV	630244	704571	12.25%	1.403%
84	20.137	1621	1623	1624	rBV	432642	459283	7.99%	0.914%
85	21.360	1727	1730	1734	rBV	308961	535730	9.32%	1.067%
86	21.497	1740	1742	1744	rBV	70386	121007	2.10%	0.241%
87	21.714	1758	1761	1766	rVB	204996	348230	6.06%	0.693%

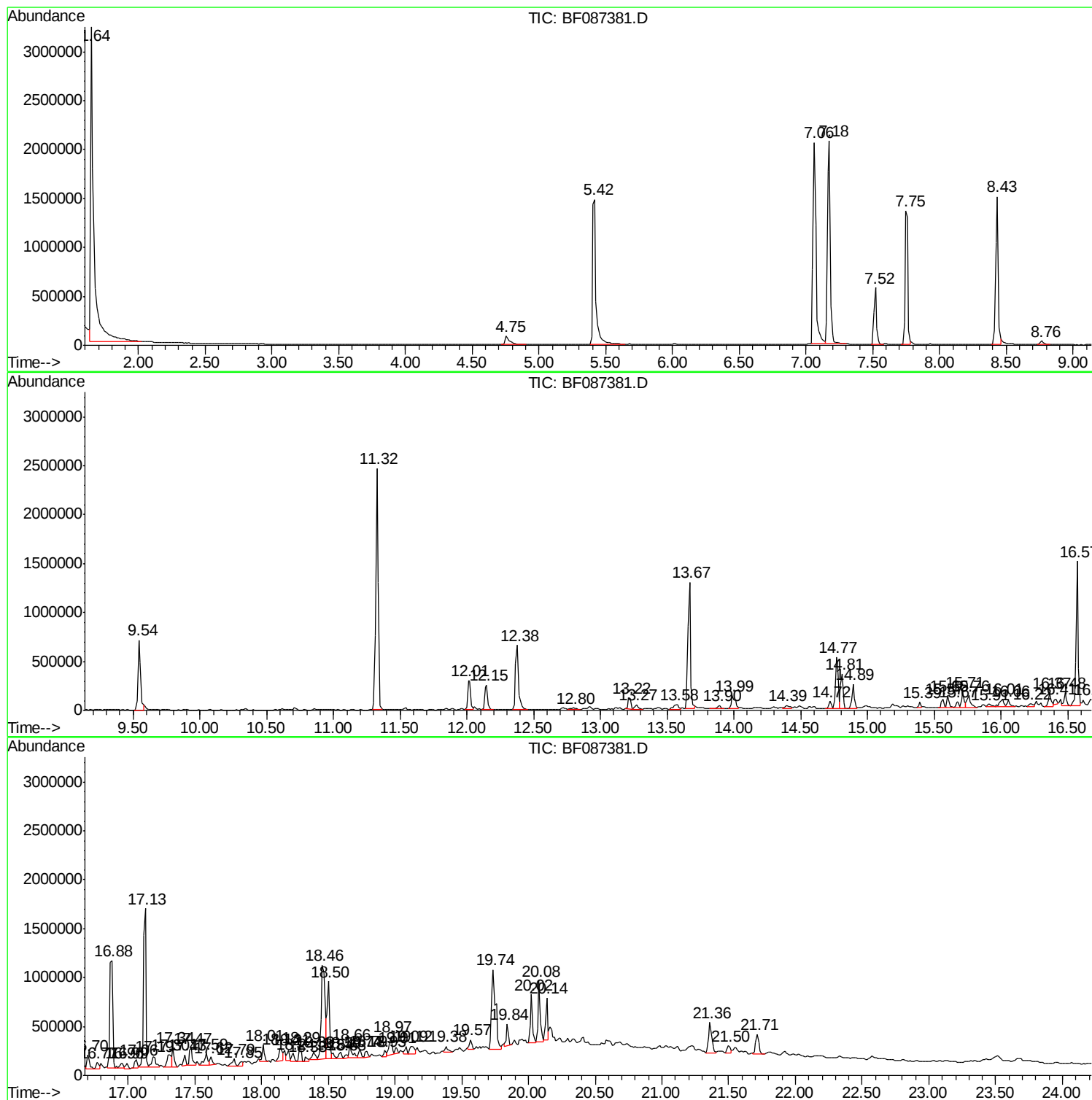
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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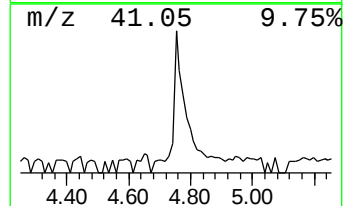
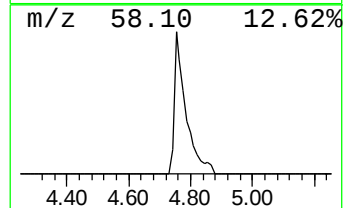
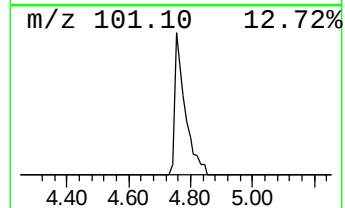
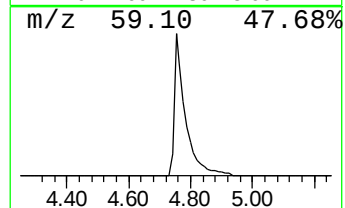
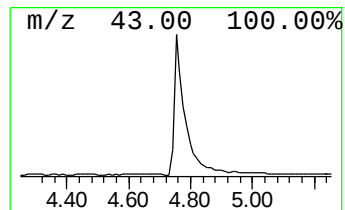
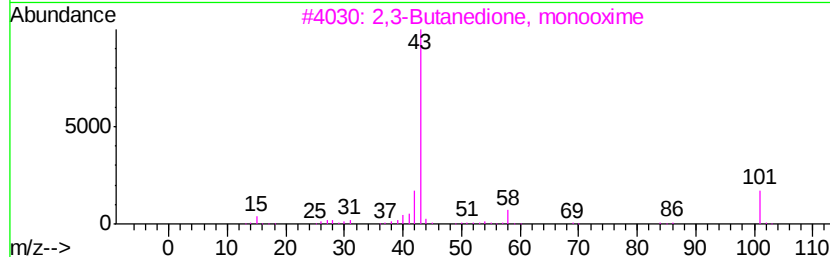
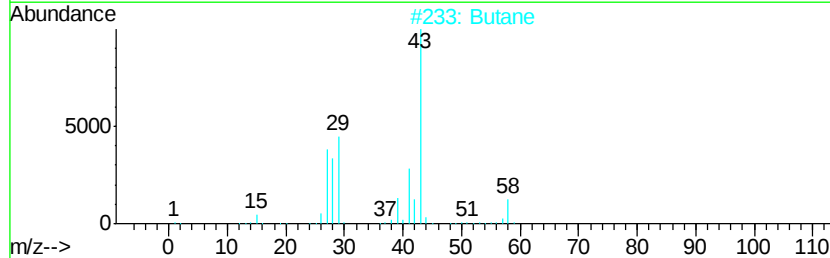
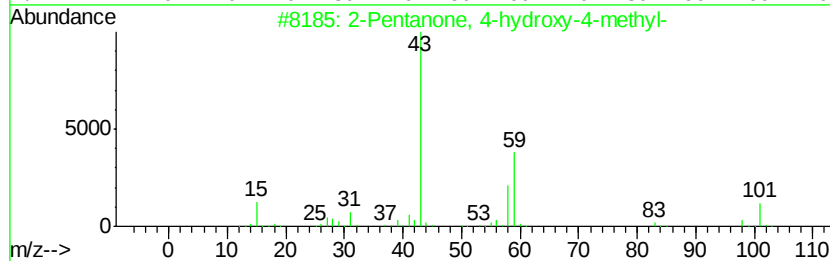
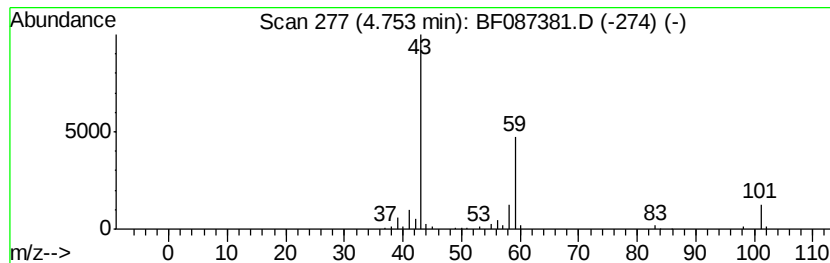
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.75	5.04 ng	196312	1,4-Dichlorobenzene-d4	7.52

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50	
2	Butane	58	C4H10	000106-97-8	9	
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9	
4	2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9	
5	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	9	



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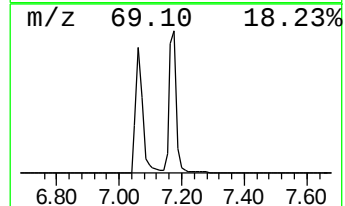
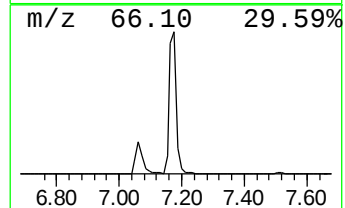
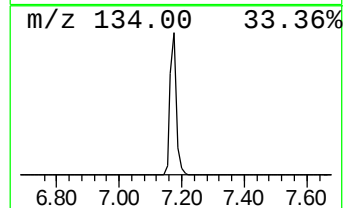
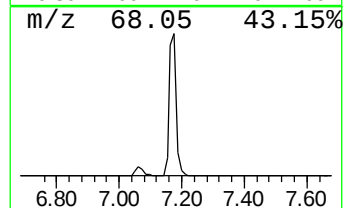
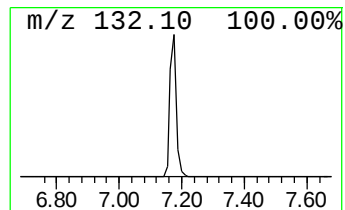
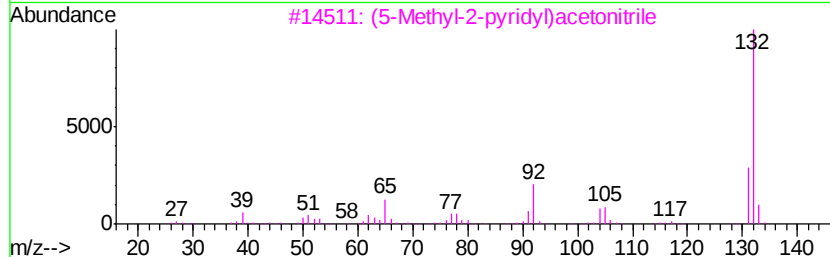
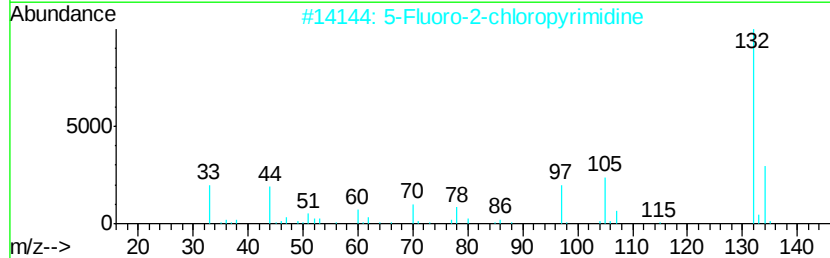
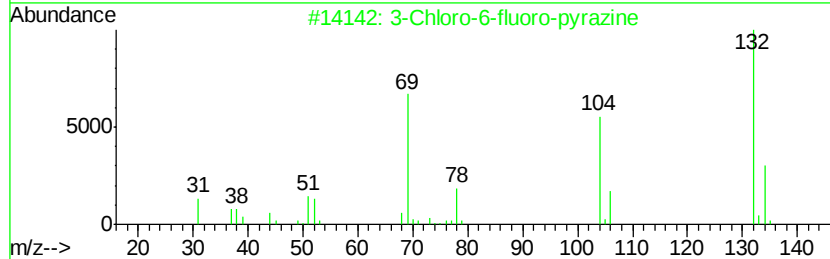
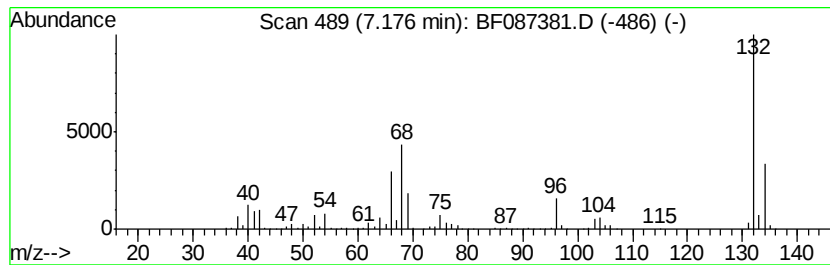
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 unknown7.18 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.18	81.51 ng	3172250	1,4-Dichlorobenzene-d4	7.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3		(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	10
4		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5		Xenon	132	Xe	007440-63-3	9



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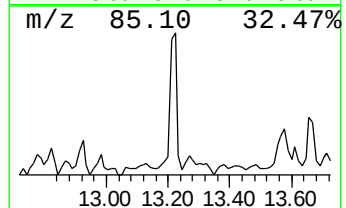
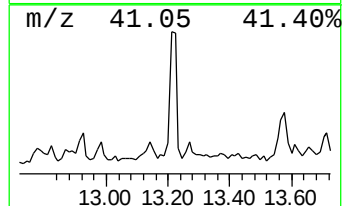
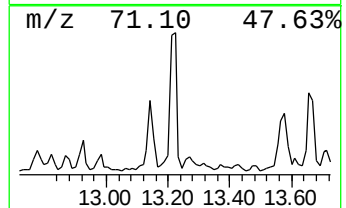
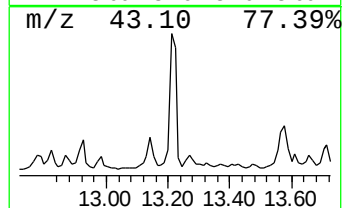
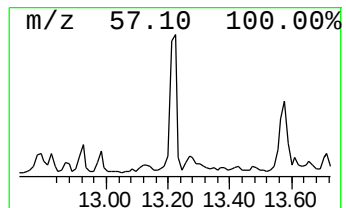
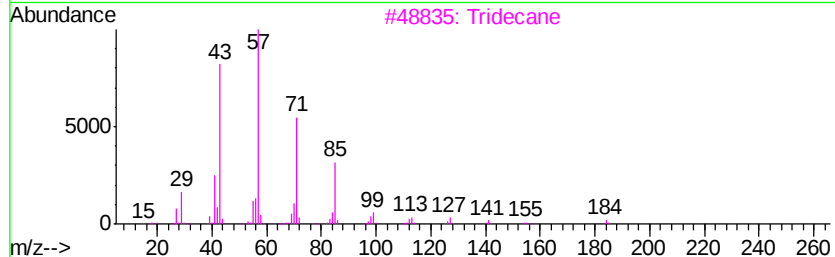
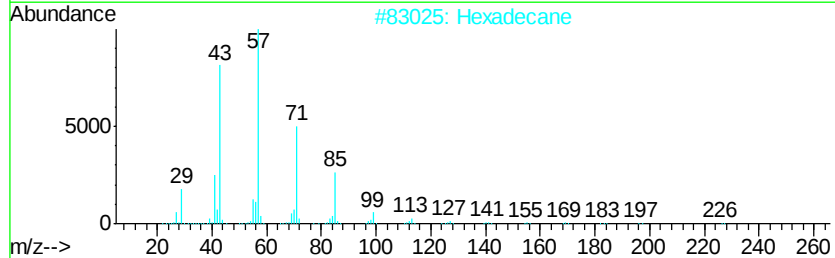
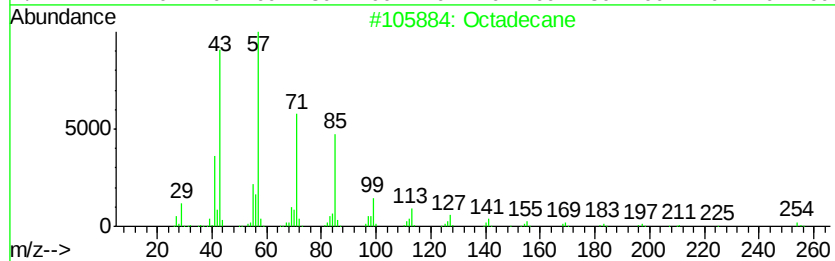
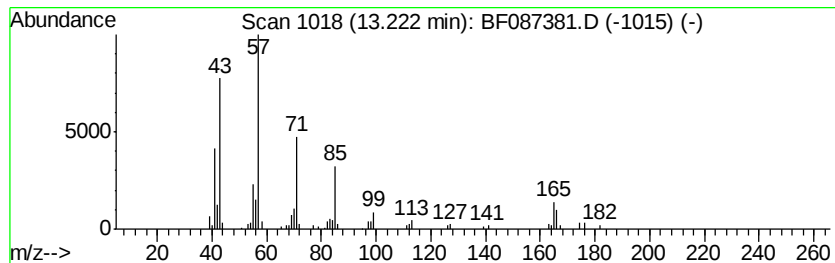
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Octadecane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	3.20 ng	164829	Acenaphthene-d10	12.38

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane		254	C18H38	000593-45-3	72
2	Hexadecane		226	C16H34	000544-76-3	68
3	Tridecane		184	C13H28	000629-50-5	64
4	Dodecane, 2-methyl-6-propyl-		226	C16H34	055045-08-4	58
5	Tridecane, 2-methyl-		198	C14H30	001560-96-9	58



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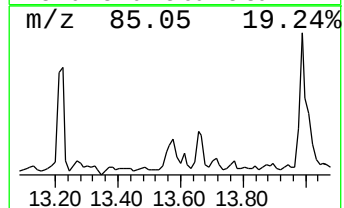
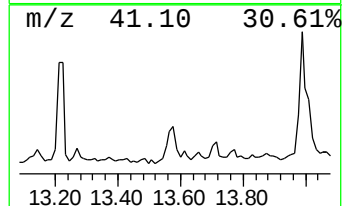
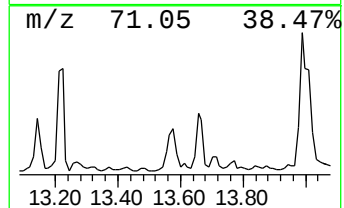
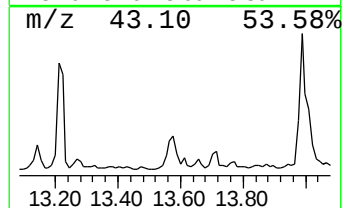
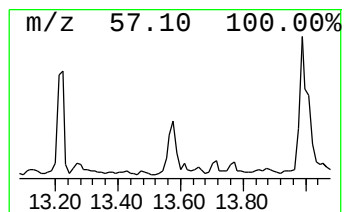
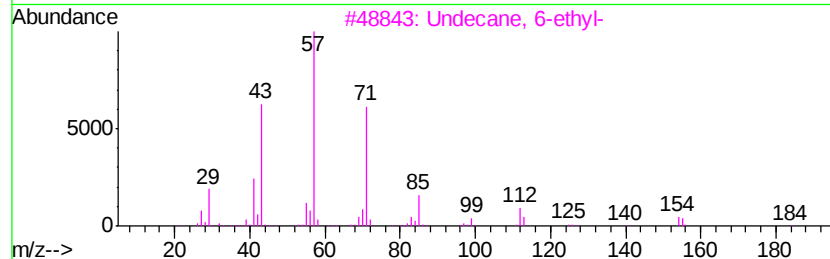
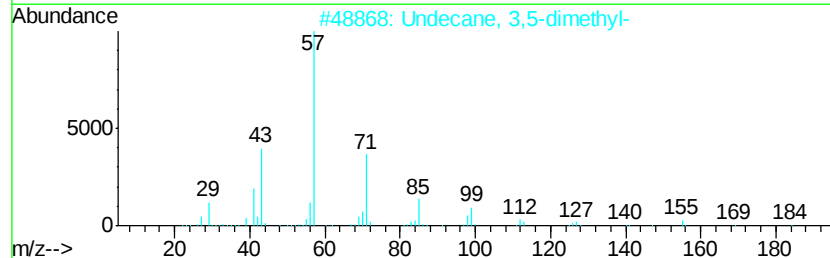
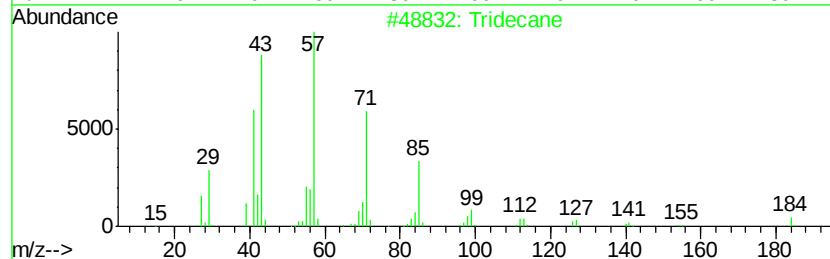
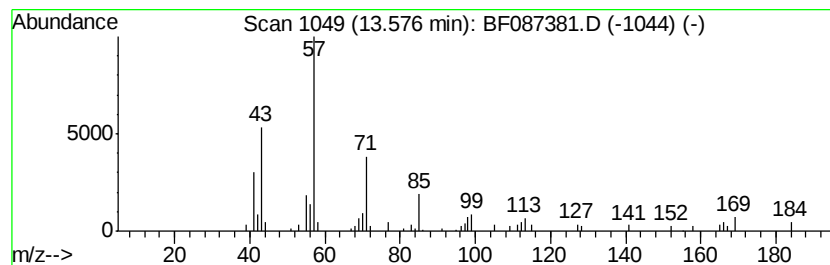
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Tridecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	3.30 ng	129364	Phenanthrene-d10	14.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	76
2	Undecane, 3,5-dimethyl-	184	C13H28	017312-81-1	59
3	Undecane, 6-ethyl-	184	C13H28	017312-60-6	59
4	Tridecane, 6-methyl-	198	C14H30	013287-21-3	58
5	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1000309-19-2	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TA-1330+60(0-4)

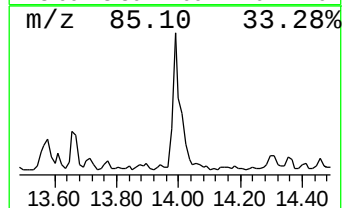
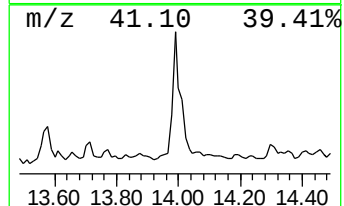
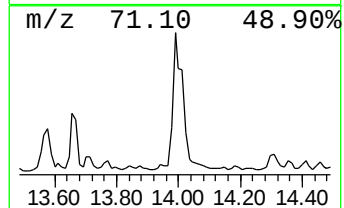
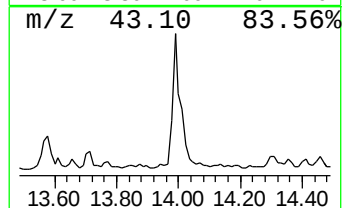
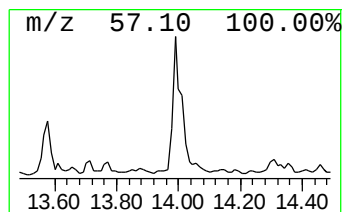
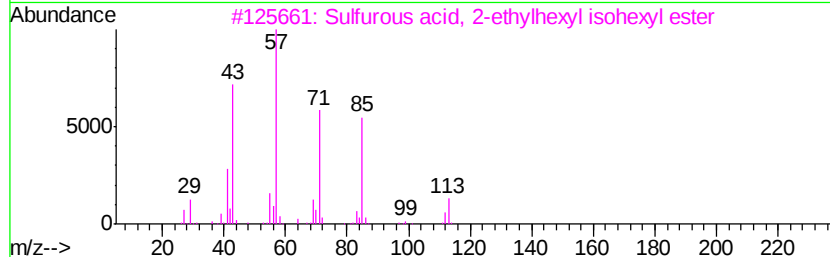
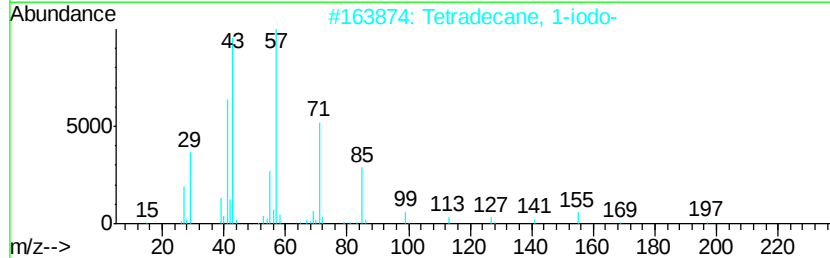
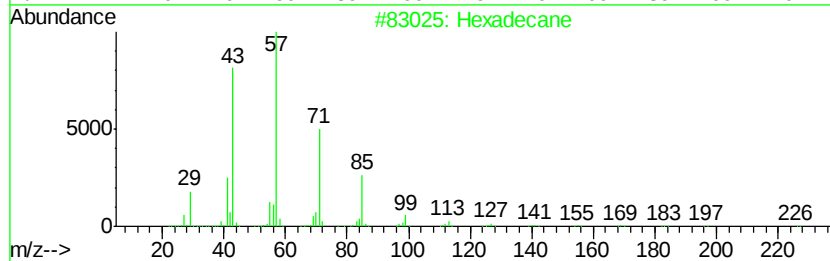
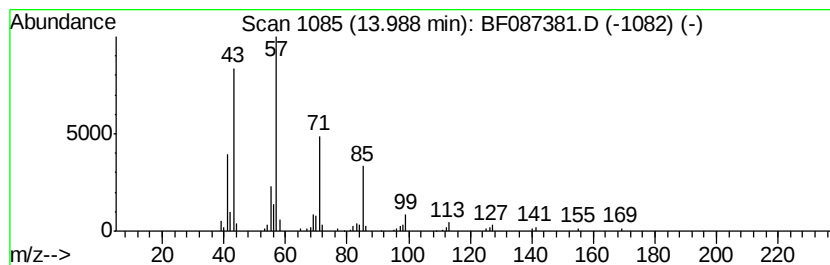
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Hexadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.99	6.86 ng	268715	Phenanthrene-d10	14.77

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane		226	C16H34	000544-76-3	91
2	Tetradecane, 1-iodo-		324	C14H29I	019218-94-1	87
3	Sulfurous acid, 2-ethylhexyl iso...		278	C14H30O3S	1000309-19-0	86
4	Decane, 6-ethyl-2-methyl-		184	C13H28	062108-21-8	83
5	Decane, 3-bromo-		220	C10H21Br	030571-71-2	80



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
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Instrument :
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ClientSampleId :
TA-1330+60(0-4)

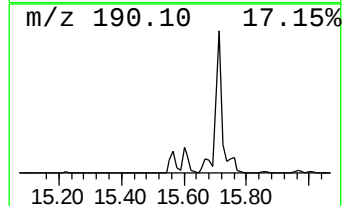
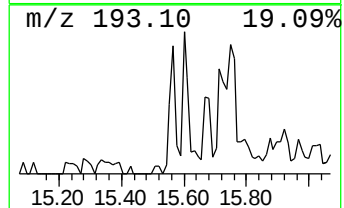
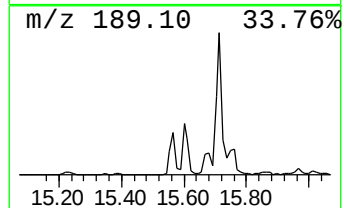
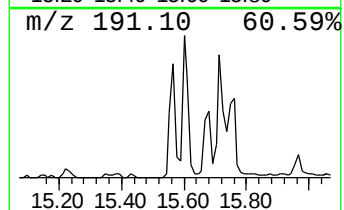
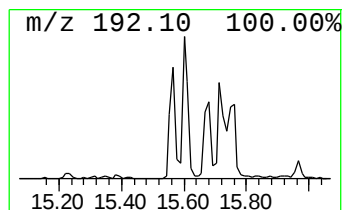
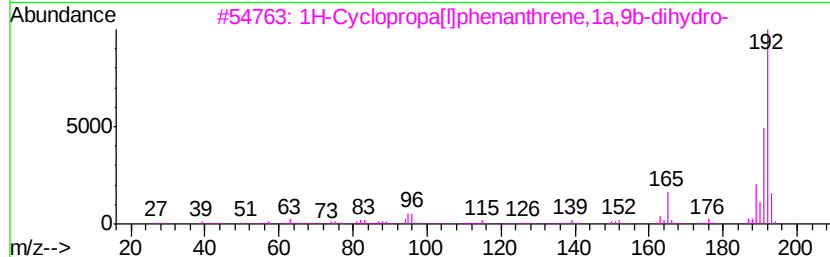
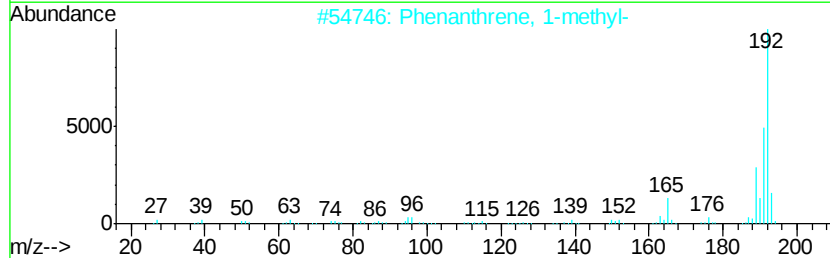
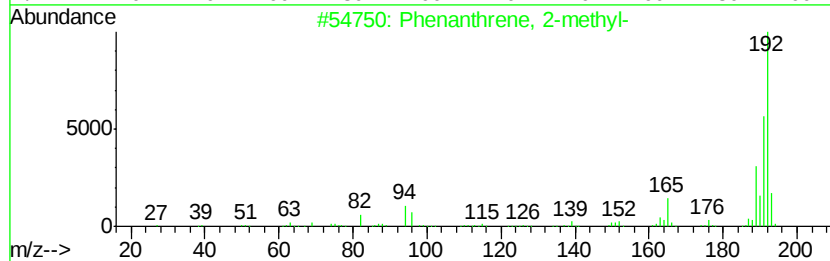
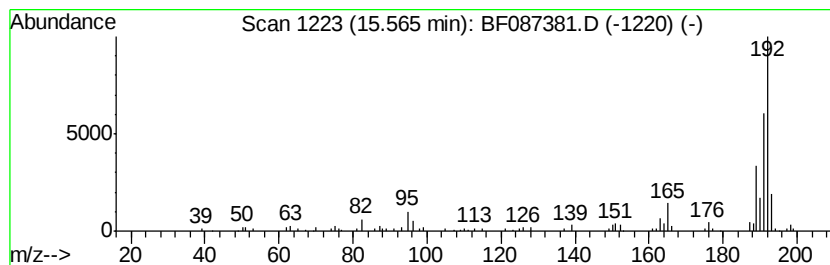
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.57	3.19 ng	125062	Phenanthrene-d10	14.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TA-1330+60(0-4)

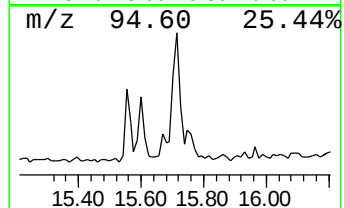
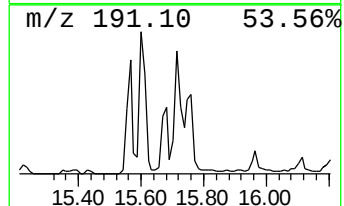
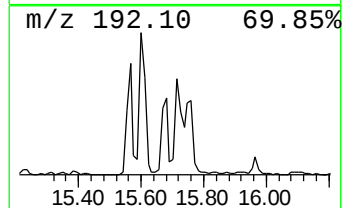
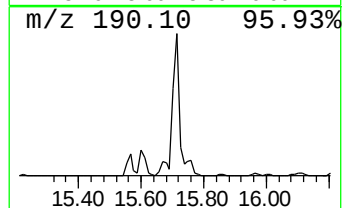
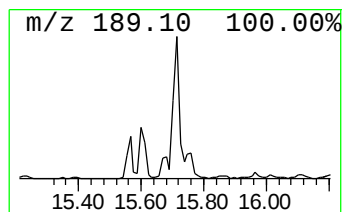
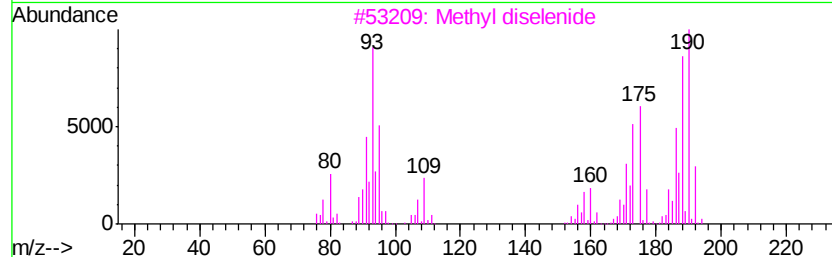
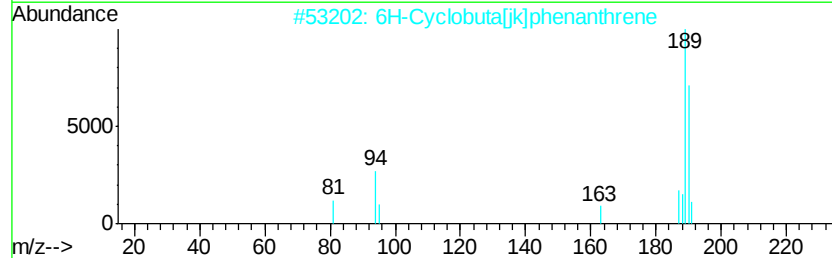
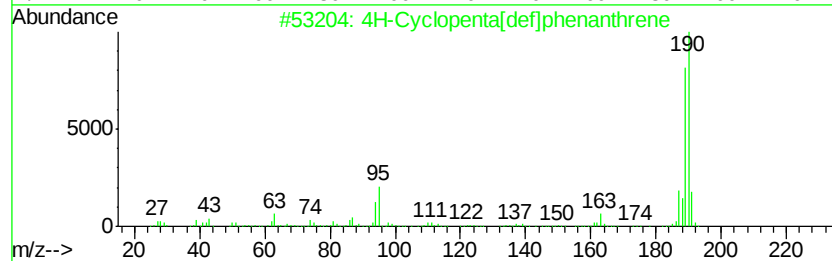
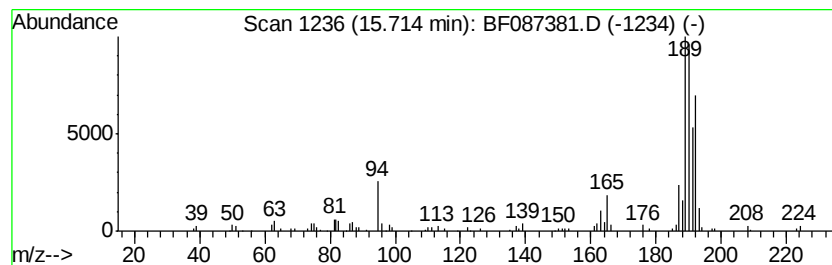
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.71	5.85 ng	229062	Phenanthrene-d10	14.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	58
3	Methyl diselenide	190	C2H6Se2	007101-31-7	45
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	35



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TA-1330+60(0-4)

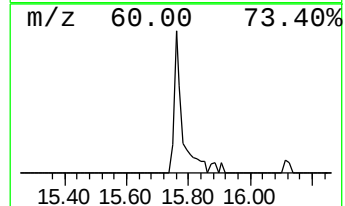
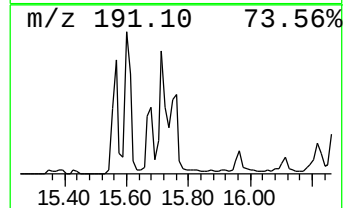
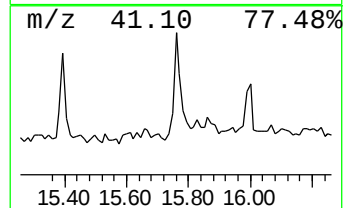
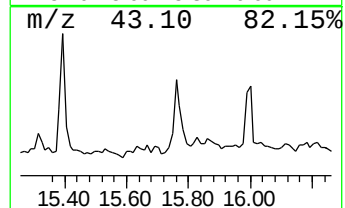
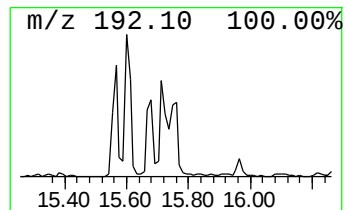
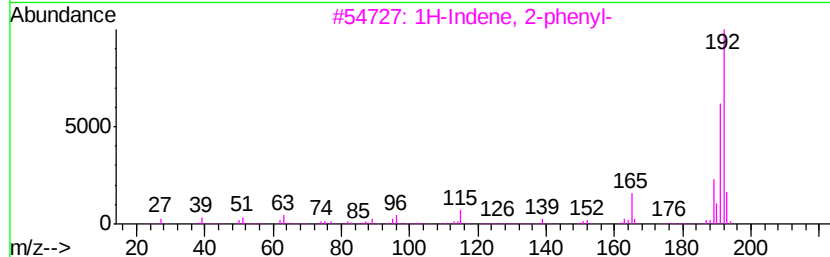
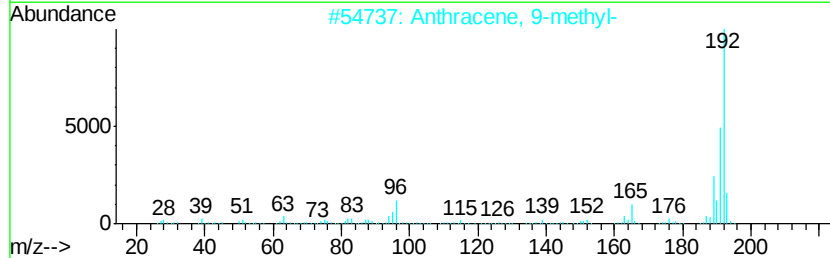
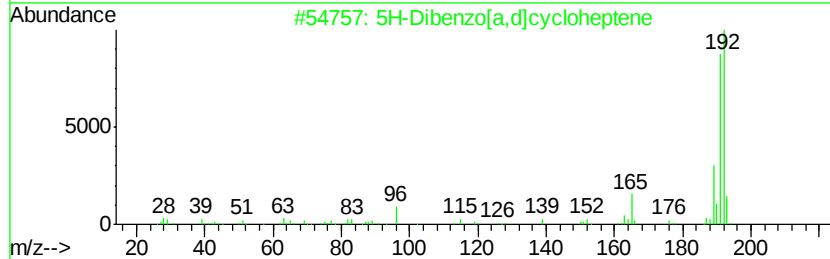
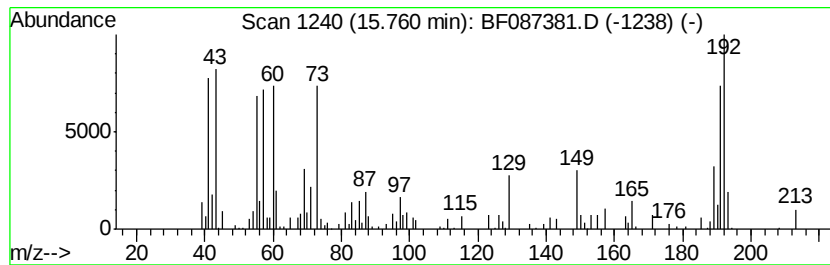
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 unknown15.76 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.76	5.02 ng	196722	Phenanthrene-d10	14.77

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46
2			Anthracene, 9-methyl-	192	C15H12	000779-02-2	46
3			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	46
4			Anthracene, 2-methyl-	192	C15H12	000613-12-7	45
5			Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	41



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TA-1330+60(0-4)

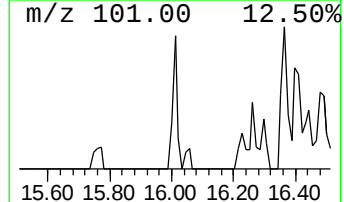
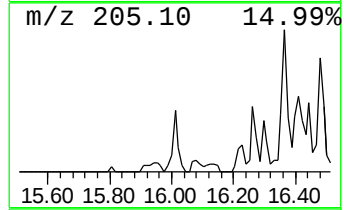
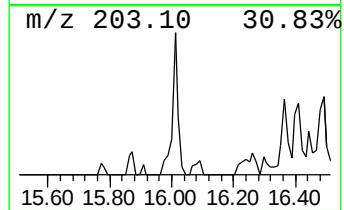
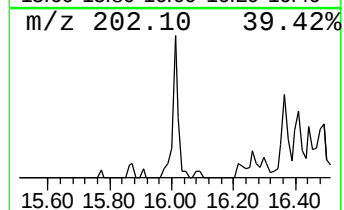
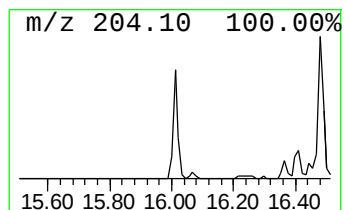
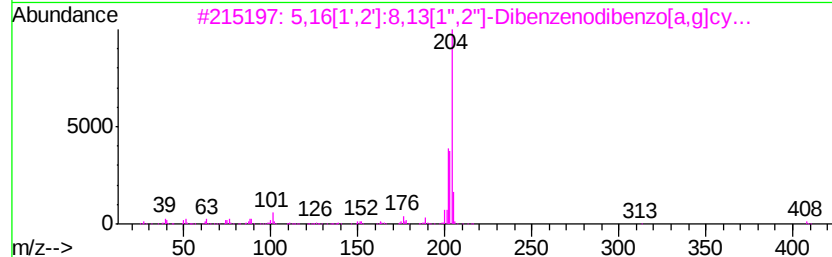
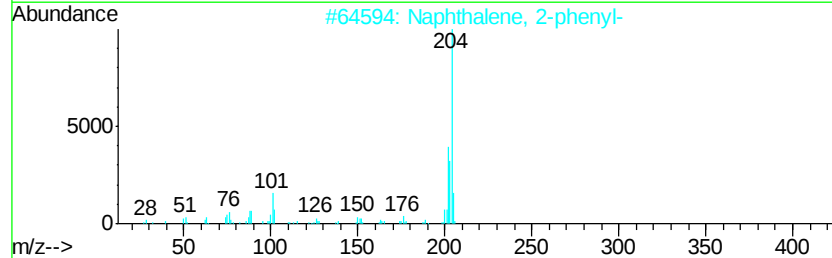
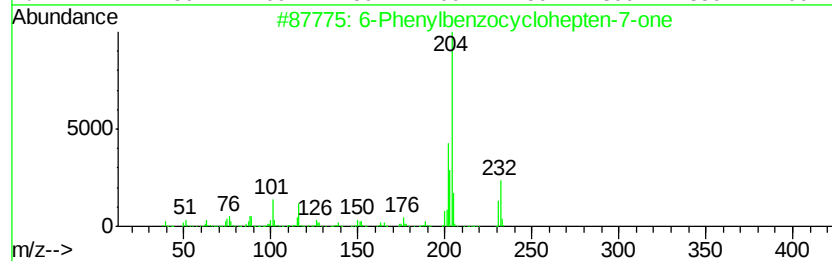
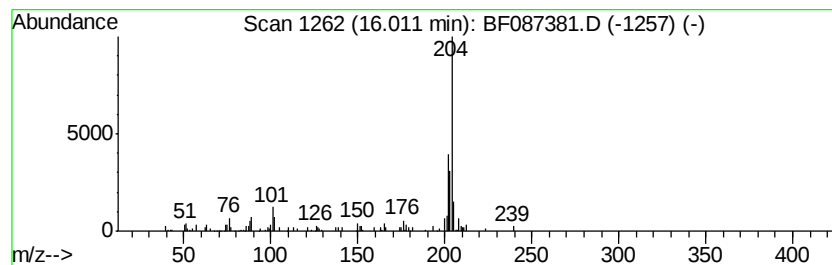
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 6-Phenylbenzocyclohepten-7-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.01	4.17 ng	163488	Phenanthrene-d10	14.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3		5,16[1',2':8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
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Misc :
ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :
TA-1330+60(0-4)

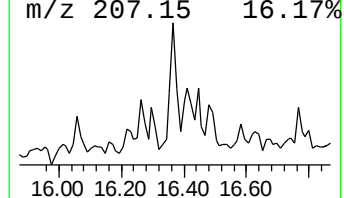
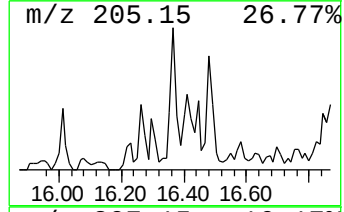
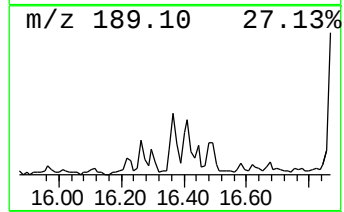
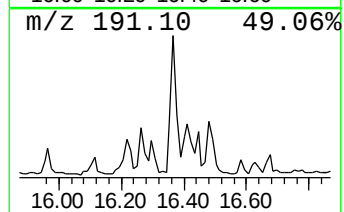
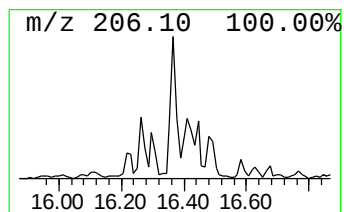
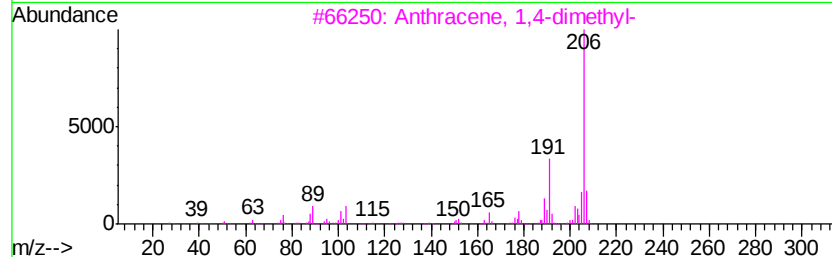
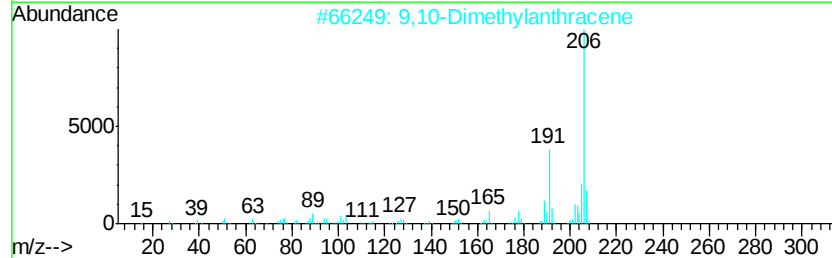
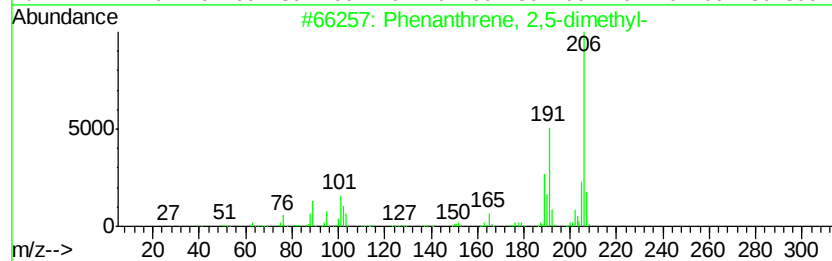
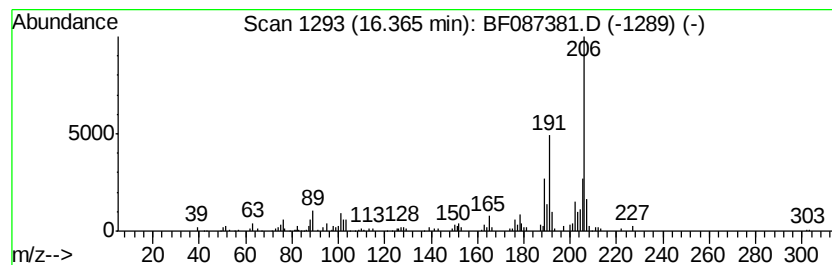
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.37	5.65 ng	221382	Phenanthrene-d10	14.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2		9,10-Dimethylantracene	206	C16H14	000781-43-1	94
3		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
4		di-p-Tolylacetylene	206	C16H14	002789-88-0	87
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TA-1330+60(0-4)

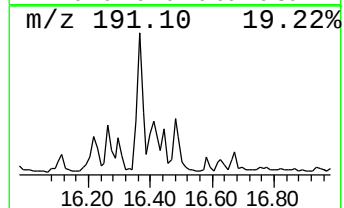
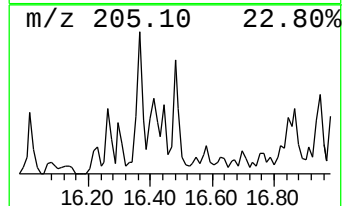
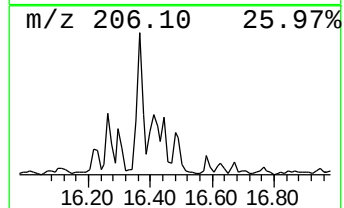
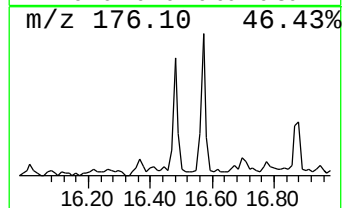
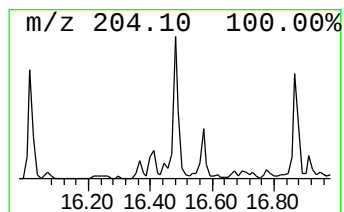
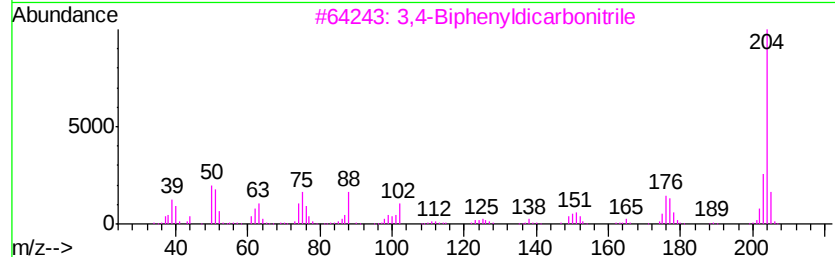
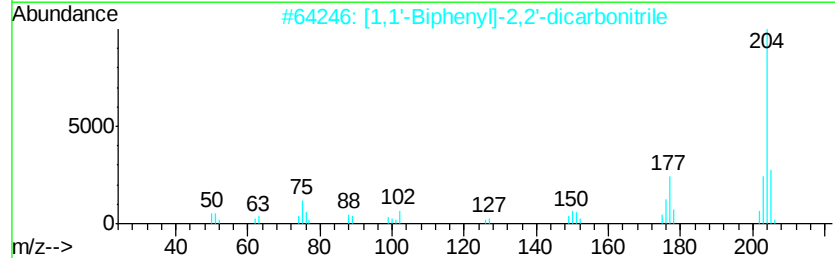
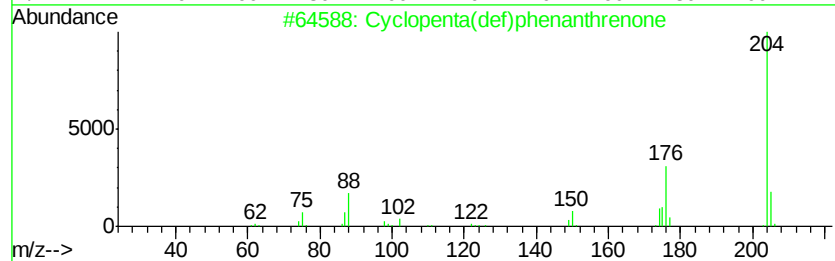
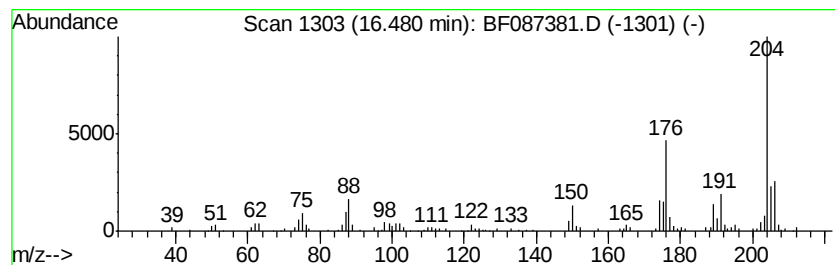
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.48	4.07 ng	159555	Phenanthrene-d10	14.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	76
2		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
3		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	40
4		1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38
5		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
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Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

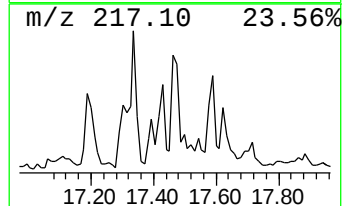
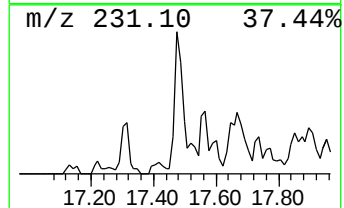
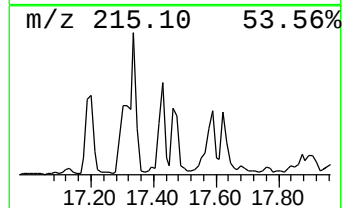
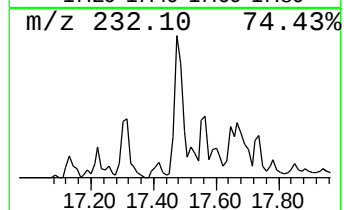
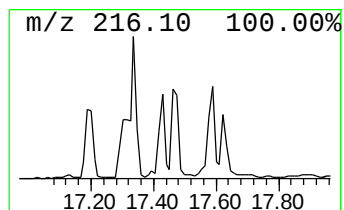
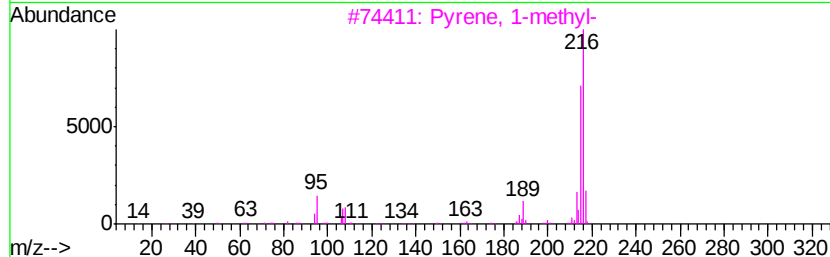
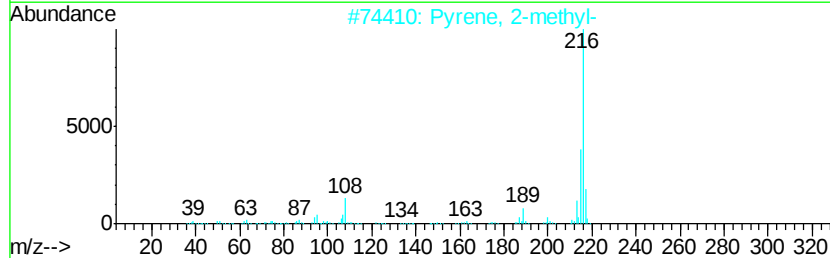
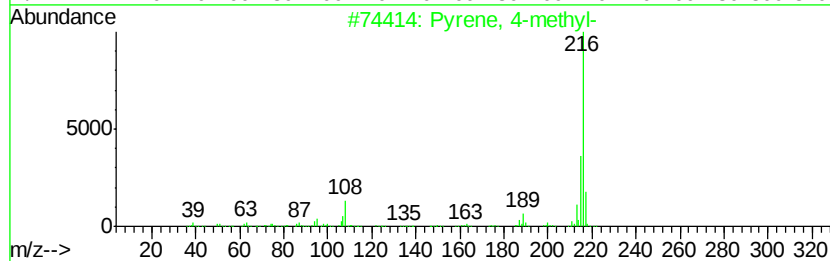
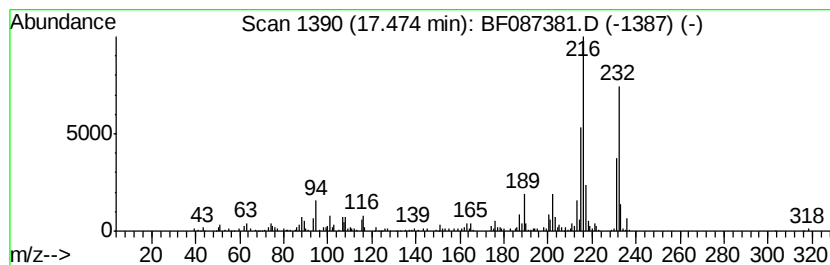
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ClientSampleId :
TA-1330+60(0-4)

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 Pyrene, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.47	3.42 ng	318138	Chrysene-d12	18.47
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Pyrene, 4-methyl-	216 C17H12	003353-12-6 70
2		Pyrene, 2-methyl-	216 C17H12	003442-78-2 70
3		Pyrene, 1-methyl-	216 C17H12	002381-21-7 55
4		Azulene, 4,8-dimethyl-6-phenyl-	232 C18H16	042758-88-3 52
5		1-Pyrenemethanol	232 C17H12O	024463-15-8 46



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TA-1330+60(0-4)

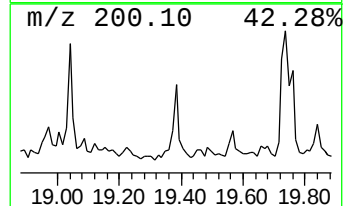
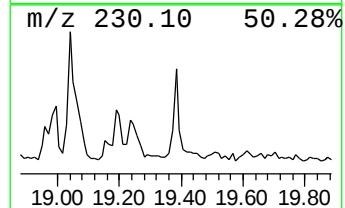
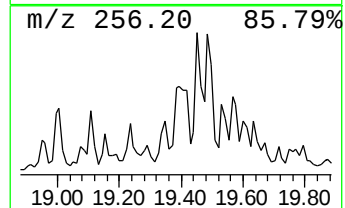
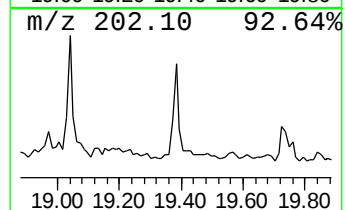
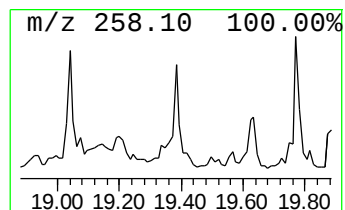
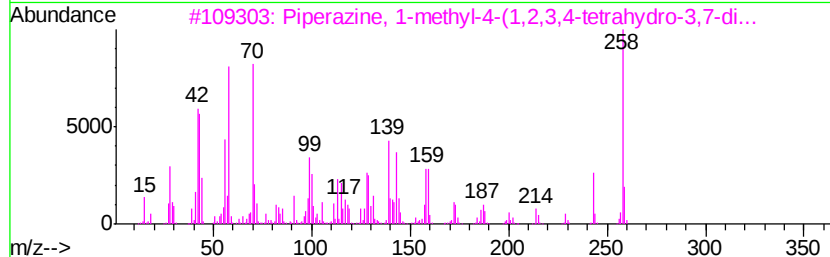
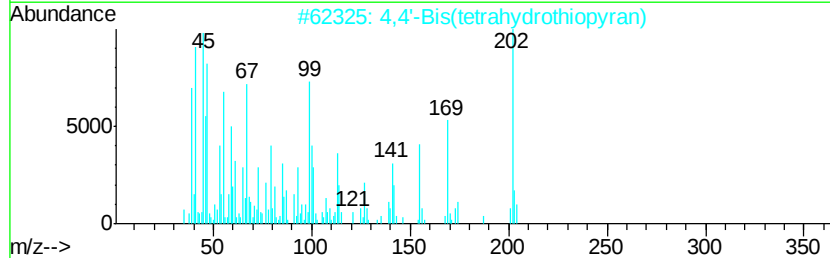
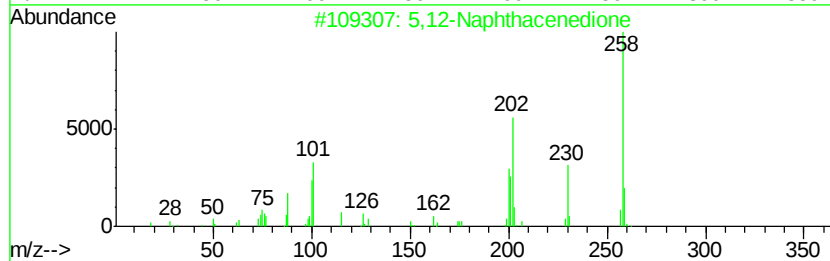
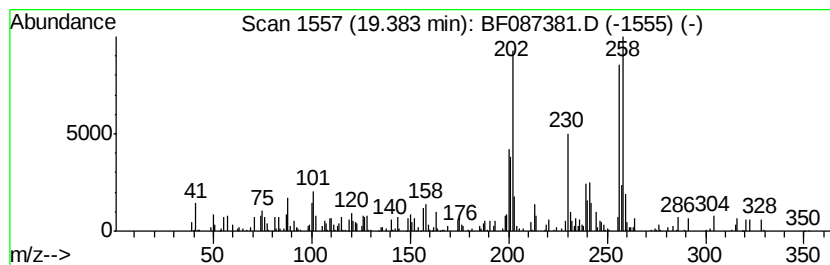
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 5,12-Naphthacenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.38	4.17 ng	95871	Perylene-d12	20.14

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	90
2		4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	90
3		Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	90
4		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	55
5		4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	51



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
Sample : H3211-13
Misc :
ALS Vial : 16 Sample Multiplier: 1

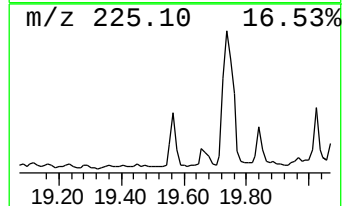
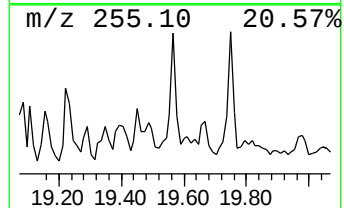
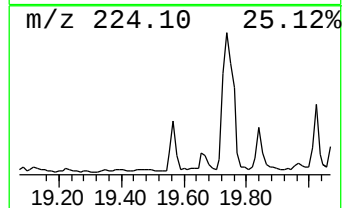
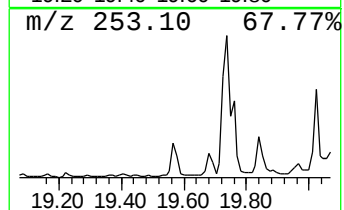
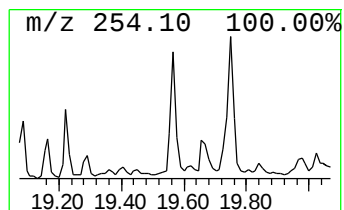
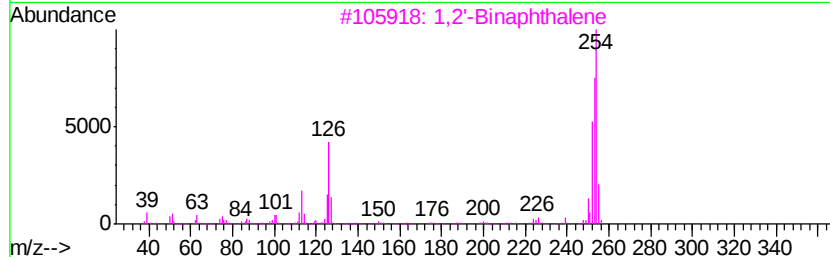
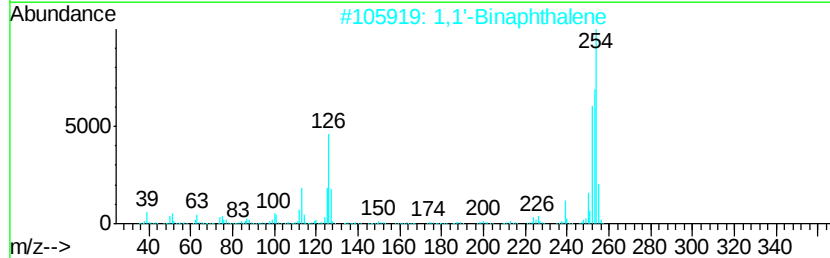
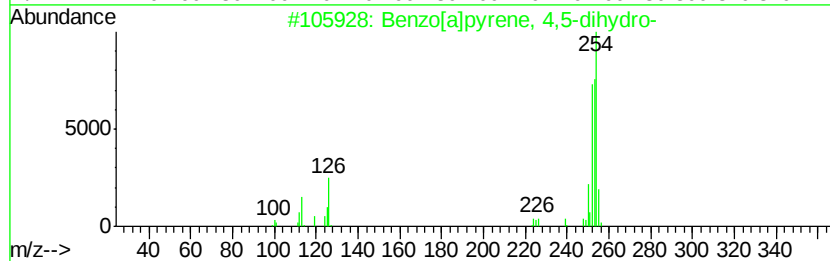
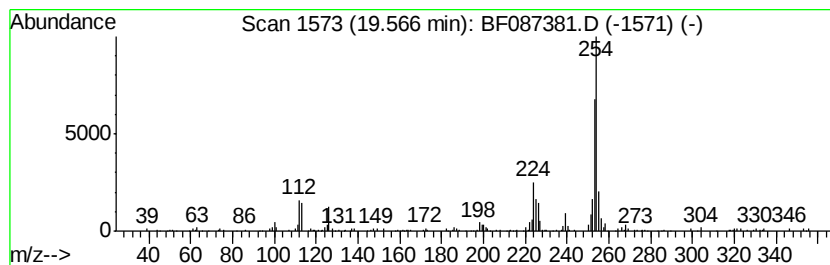
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Benzo[a]pyrene, 4,5-dihydro- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.57	5.14 ng	118039	Perylene-d12	20.14
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Benzo[a]pyrene, 4,5-dihydro-	254 C20H14	057652-66-1 68
2		1,1'-Binaphthalene	254 C20H14	000604-53-5 68
3		1,2'-Binaphthalene	254 C20H14	004325-74-0 64
4		Benzo(a)pyrene, 7,8-dihydro-	254 C20H14	017573-23-8 64
5		Anthracene, 9-phenyl-	254 C20H14	000602-55-1 64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
Data File : BF087381.D
Acq On : 25 May 2016 20:10
Operator : UM/SJ
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Misc :
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Instrument :
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ClientSampleId :
TA-1330+60(0-4)

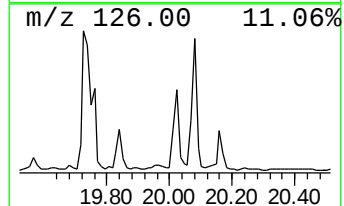
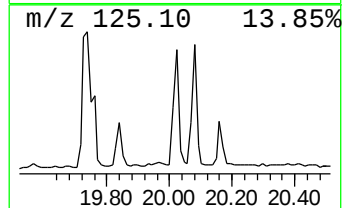
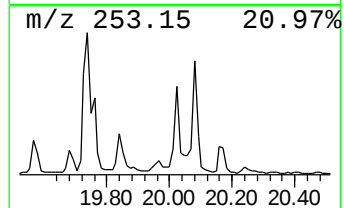
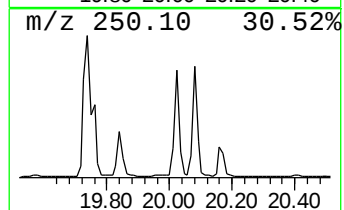
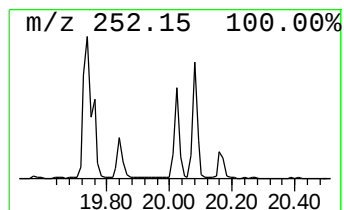
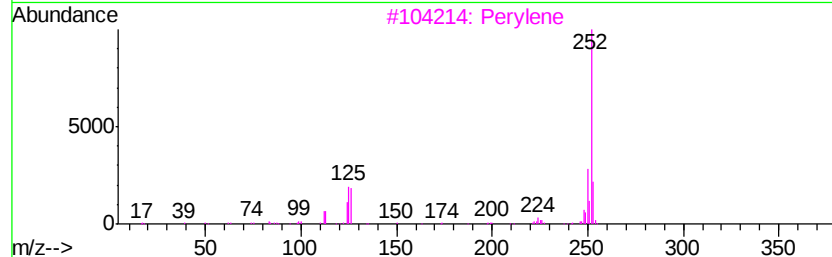
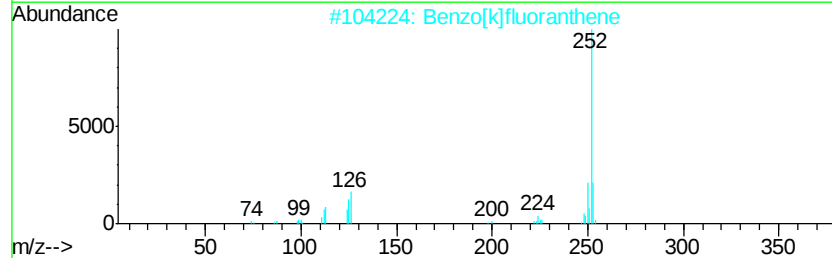
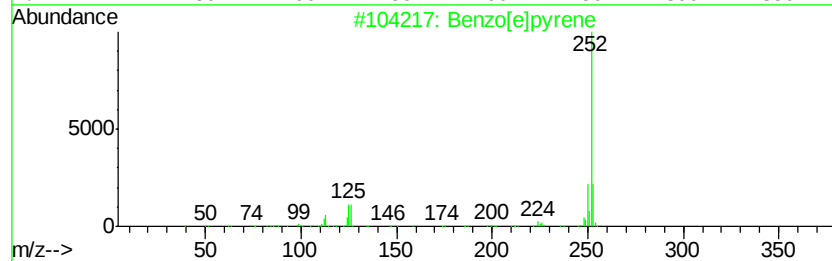
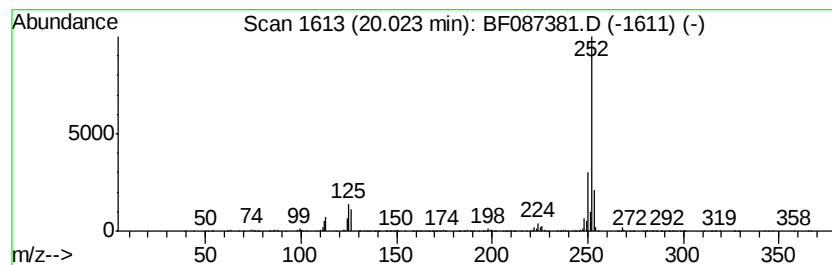
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.02	24.65 ng	566074	Perylene-d12	20.14

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3		Perylene	252	C20H12	000198-55-0	95
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	90
5		Benzo[a]pyrene	252	C20H12	000050-32-8	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052516\
 Data File : BF087381.D
 Acq On : 25 May 2016 20:10
 Operator : UM/SJ
 Sample : H3211-13
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TA-1330+60(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
2-Pentanone, 4-hy...	4.75	5.0	ng	196312	1	7.52	778330	20.0
unknown7.18	7.18	81.5	ng	3172250	1	7.52	778330	20.0
Octadecane	13.22	3.2	ng	164829	3	12.38	1029430	20.0
Tridecane	13.58	3.3	ng	129364	4	14.77	783607	20.0
Hexadecane	13.99	6.9	ng	268715	4	14.77	783607	20.0
Phenanthrene, 2-m...	15.57	3.2	ng	125062	4	14.77	783607	20.0
4H-Cyclopenta[def...	15.71	5.8	ng	229062	4	14.77	783607	20.0
unknown15.76	15.76	5.0	ng	196722	4	14.77	783607	20.0
6-Phenylbenzocycl...	16.01	4.2	ng	163488	4	14.77	783607	20.0
Phenanthrene, 2,5...	16.37	5.7	ng	221382	4	14.77	783607	20.0
Cyclopenta(def)ph...	16.48	4.1	ng	159555	4	14.77	783607	20.0
Pyrene, 4-methyl-	17.47	3.4	ng	318138	5	18.47	1862650	20.0
5,12-Naphthacened...	19.38	4.2	ng	95871	6	20.14	459283	20.0
Benzo[a]pyrene, 4...	19.57	5.1	ng	118039	6	20.14	459283	20.0
Benzo[e]pyrene	20.02	24.6	ng	566074	6	20.14	459283	20.0