

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\
 Data File : BF076833.D
 Acq On : 13 Jan 2015 7:02
 Operator : IZ / TP
 Sample : G1030-02
 Misc : S
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP1-SS-2(4-6)

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-BF010915.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	1.487	33	35	45	rBV	72105	118662	2.90%	0.245%
2	4.241	274	276	285	rBV	94718	198273	4.85%	0.410%
3	5.167	354	357	368	rBB	355645	640920	15.68%	1.324%
4	7.487	556	560	565	rBV	400405	646678	15.82%	1.336%
5	7.579	565	568	572	rVB	412238	686290	16.79%	1.418%
6	8.082	609	612	616	rBB	119153	193690	4.74%	0.400%
7	8.402	637	640	644	rBV	281357	486590	11.90%	1.005%
8	9.373	722	725	729	rBV	268995	411601	10.07%	0.850%
9	10.996	863	867	869	rBV	162878	292151	7.15%	0.603%
10	11.042	869	871	874	rVB	164253	234011	5.72%	0.483%
11	12.699	1012	1016	1019	rVB	71467	114692	2.81%	0.237%
12	12.917	1031	1035	1038	rVB	58057	94457	2.31%	0.195%
13	13.648	1095	1099	1102	rBV	374276	645354	15.78%	1.333%
14	14.700	1189	1191	1195	rVB	66984	103718	2.54%	0.214%
15	15.134	1225	1229	1232	rVB	182027	296102	7.24%	0.612%
16	15.202	1232	1235	1239	rBB	310198	462851	11.32%	0.956%
17	15.625	1269	1272	1275	rBV	170283	254187	6.22%	0.525%
18	16.323	1330	1333	1336	rBV	389817	509720	12.47%	1.053%
19	16.711	1364	1367	1369	rBV	141680	159908	3.91%	0.330%
20	16.768	1369	1372	1376	rBV2	372214	599910	14.67%	1.239%
21	17.294	1415	1418	1420	rBV	71326	106286	2.60%	0.220%
22	17.580	1440	1443	1445	rVV2	161709	211468	5.17%	0.437%
23	17.694	1449	1453	1456	rBV2	163959	262147	6.41%	0.541%
24	17.866	1465	1468	1469	rBV	204930	332302	8.13%	0.686%
25	17.911	1469	1472	1474	rVV	2554661	3894110	95.24%	8.044%
26	17.968	1474	1477	1480	rVB	729407	997213	24.39%	2.060%
27	18.254	1499	1502	1504	rBV	323738	439625	10.75%	0.908%
28	18.346	1508	1510	1512	rBV2	81483	98637	2.41%	0.204%
29	18.597	1529	1532	1534	rBV	294695	354769	8.68%	0.733%
30	18.631	1534	1535	1539	rVV	368519	416950	10.20%	0.861%
31	18.700	1539	1541	1542	rVV	164536	180642	4.42%	0.373%
32	18.734	1542	1544	1546	rVV2	423913	626455	15.32%	1.294%
33	18.769	1546	1547	1550	rVB	173547	198583	4.86%	0.410%
34	19.031	1567	1570	1573	rVB2	253022	425379	10.40%	0.879%

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 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	19.351	1595	1598	1600	rBV2	108961	192543	4.71%	0.398%
36	19.431	1603	1605	1611	rVB3	83617	223764	5.47%	0.462%
37	19.546	1611	1615	1617	rBV	3306388	4088657	100.00%	8.445%
38	19.649	1623	1624	1628	rVB3	57039	95202	2.33%	0.197%
39	19.717	1628	1630	1634	rBV3	129606	214776	5.25%	0.444%
40	19.832	1636	1640	1642	rBV	2966290	4025590	98.46%	8.315%
41	19.900	1644	1646	1648	rVB	141684	159002	3.89%	0.328%
42	19.969	1648	1652	1653	rBV2	97994	127368	3.12%	0.263%
43	20.003	1653	1655	1656	rBV	131577	241667	5.91%	0.499%
44	20.026	1656	1657	1659	rVB	178629	158320	3.87%	0.327%
45	20.072	1659	1661	1664	rBV2	418826	691051	16.90%	1.427%
46	20.129	1664	1666	1668	rVB	155025	198629	4.86%	0.410%
47	20.163	1668	1669	1672	rVB2	95714	102881	2.52%	0.213%
48	20.266	1672	1678	1680	rVB	391460	731291	17.89%	1.511%
49	20.346	1683	1685	1687	rBV	296744	354443	8.67%	0.732%
50	20.392	1687	1689	1694	rBV3	182981	413354	10.11%	0.854%
51	20.494	1694	1698	1700	rVB2	120729	175924	4.30%	0.363%
52	20.597	1703	1707	1709	rVB3	60388	149335	3.65%	0.308%
53	20.643	1709	1711	1715	rBV2	75345	113756	2.78%	0.235%
54	20.780	1718	1723	1724	rBV4	86742	174892	4.28%	0.361%
55	20.803	1724	1725	1728	rVB2	81583	123307	3.02%	0.255%
56	20.860	1728	1730	1731	rBV2	102161	118776	2.91%	0.245%
57	20.906	1731	1734	1737	rVB	199786	317531	7.77%	0.656%
58	21.032	1742	1745	1747	rBV	290867	349099	8.54%	0.721%
59	21.077	1747	1749	1751	rBV2	270784	409969	10.03%	0.847%
60	21.123	1751	1753	1755	rVB2	163362	199382	4.88%	0.412%
61	21.169	1755	1757	1760	rVB	257785	290166	7.10%	0.599%
62	21.249	1760	1764	1767	rBV	82198	123574	3.02%	0.255%
63	21.352	1767	1773	1774	rBV	1581249	2627515	64.26%	5.427%
64	21.386	1774	1776	1778	rVV2	1191392	1846066	45.15%	3.813%
65	21.477	1782	1784	1787	rBV	260411	322773	7.89%	0.667%
66	21.615	1793	1796	1798	rVB2	186500	299928	7.34%	0.620%
67	21.660	1798	1800	1802	rBV	191555	260806	6.38%	0.539%
68	21.797	1809	1812	1814	rVB2	52771	113751	2.78%	0.235%
69	21.855	1814	1817	1818	rBV	226868	341704	8.36%	0.706%
70	21.889	1818	1820	1823	rVB	129871	142777	3.49%	0.295%
71	21.957	1823	1826	1827	rBV2	95383	180033	4.40%	0.372%

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72	21.992	1827	1829	1830	rVV2	96884	181772	4.45%	0.375%
73	22.060	1833	1835	1837	rVB2	81962	99296	2.43%	0.205%
74	22.117	1837	1840	1843	rVB	93196	143949	3.52%	0.297%
75	22.243	1847	1851	1853	rBV2	128857	210700	5.15%	0.435%
76	22.449	1864	1869	1871	rVV2	56006	123355	3.02%	0.255%
77	22.632	1881	1885	1890	rBV	1253741	2804447	68.59%	5.793%
78	22.735	1890	1894	1896	rBV2	276058	390935	9.56%	0.808%
79	22.860	1901	1905	1906	rBV	95720	218651	5.35%	0.452%
80	22.929	1909	1911	1914	rVV	624087	901494	22.05%	1.862%
81	22.998	1914	1917	1919	rVB	1129592	1384023	33.85%	2.859%
82	23.055	1919	1922	1923	rBV	231858	322715	7.89%	0.667%
83	23.078	1923	1924	1926	rVV	256281	350613	8.58%	0.724%
84	23.249	1934	1939	1940	rBV4	87617	245407	6.00%	0.507%
85	23.352	1945	1948	1950	rBV2	71606	162744	3.98%	0.336%
86	23.546	1962	1965	1967	rVB	67652	117396	2.87%	0.242%
87	23.660	1972	1975	1980	rVB3	50885	96958	2.37%	0.200%
88	24.015	2003	2006	2011	rVV5	94890	251802	6.16%	0.520%
89	24.106	2011	2014	2017	rVV2	147874	263533	6.45%	0.544%
90	24.232	2020	2025	2029	rVB2	525859	955275	23.36%	1.973%
91	24.358	2034	2036	2038	rBV	125053	224667	5.49%	0.464%
92	24.403	2038	2040	2042	rVB	88114	128507	3.14%	0.265%
93	24.541	2048	2052	2055	rBV	404245	679238	16.61%	1.403%
94	24.701	2062	2066	2069	rBV2	116964	251685	6.16%	0.520%
95	25.066	2096	2098	2104	rVB	37235	94725	2.32%	0.196%
96	25.203	2104	2110	2117	rBV5	67814	337749	8.26%	0.698%
97	26.106	2184	2189	2194	rBV2	111982	307645	7.52%	0.635%
98	26.221	2194	2199	2203	rBV2	89968	320533	7.84%	0.662%
99	26.907	2252	2259	2267	rVB4	73272	349929	8.56%	0.723%
100	27.044	2268	2271	2275	rVB2	39946	98774	2.42%	0.204%

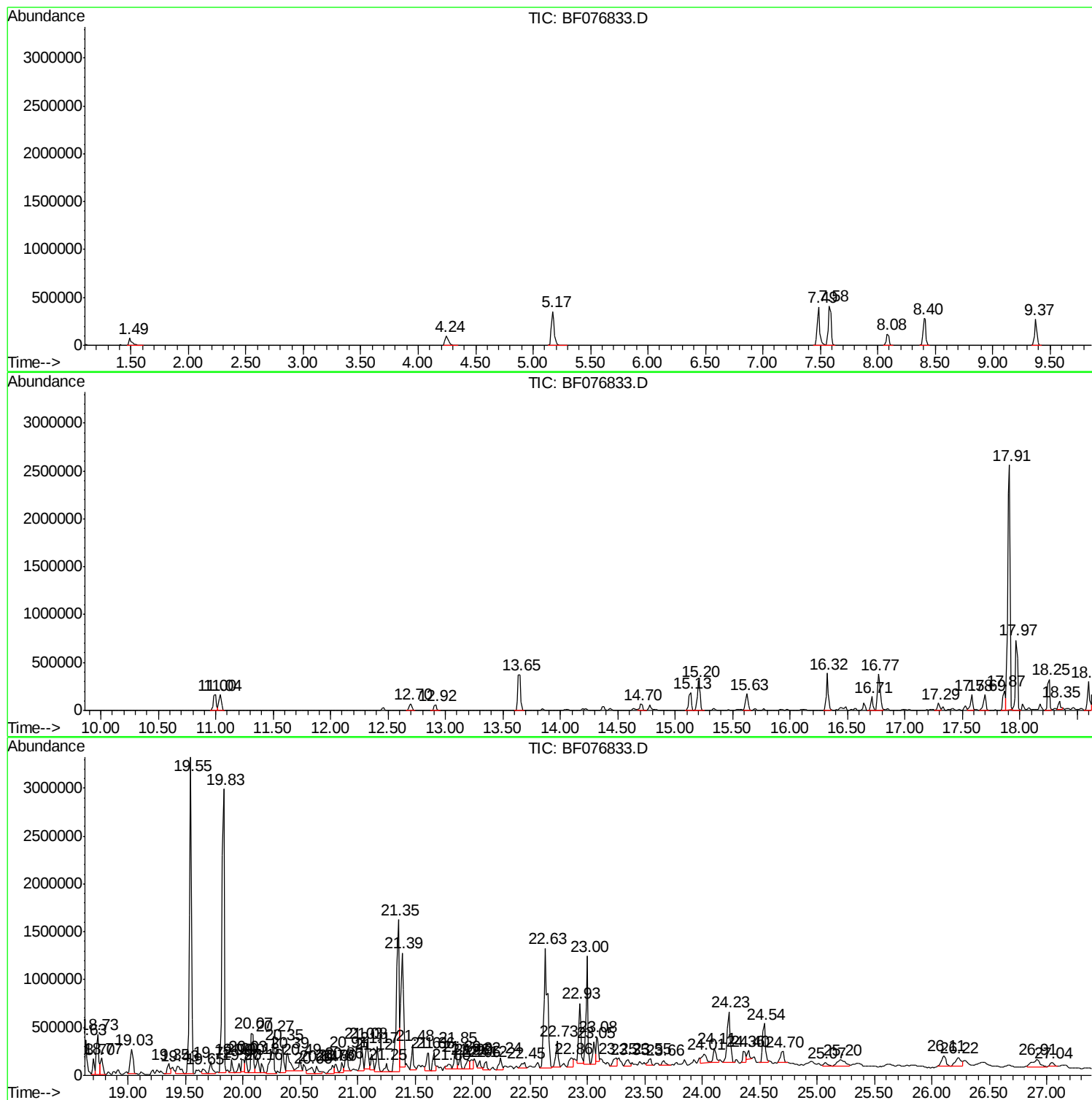
Sum of corrected areas: 48412450

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BNA_F
ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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TP1-SS-2(4-6)

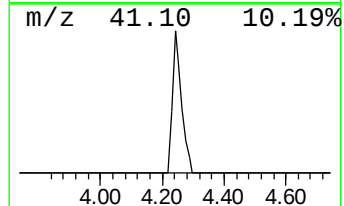
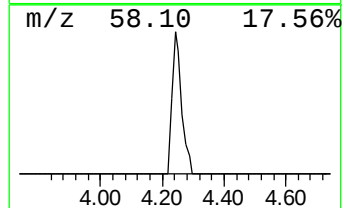
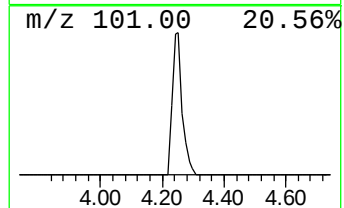
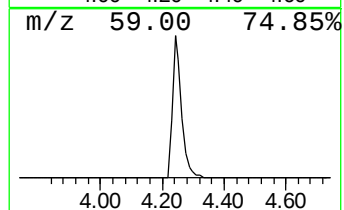
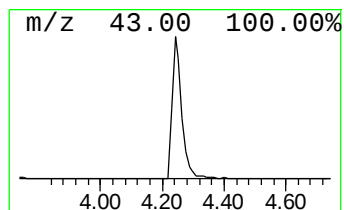
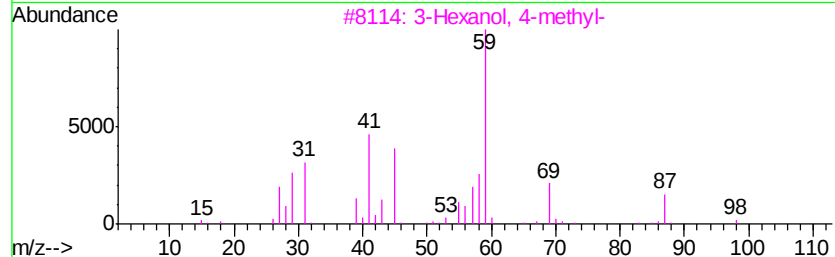
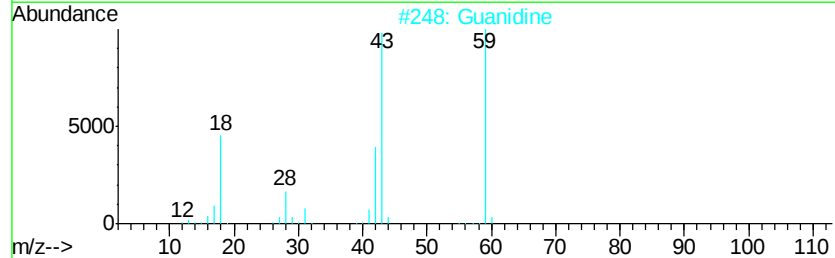
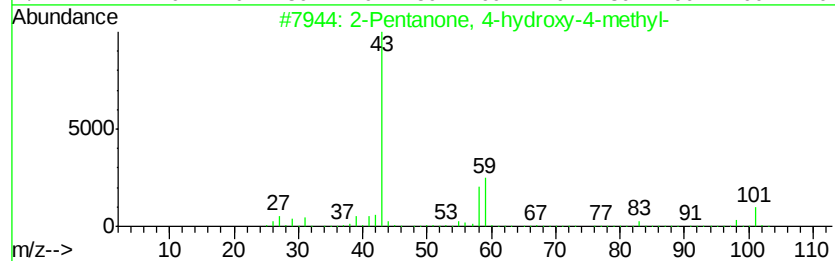
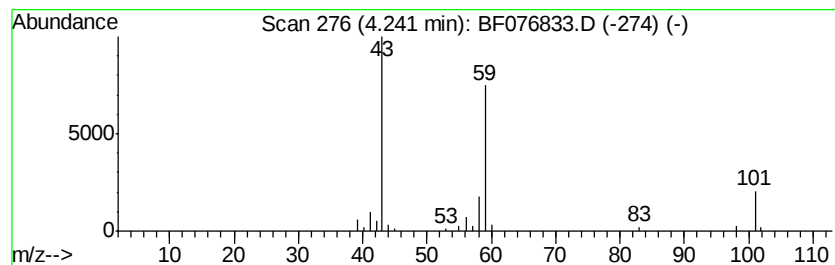
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.24	20.47 ng	198273	1,4-Dichlorobenzene-d4	8.08

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2		Guanidine	59	CH5N3	000113-00-8	50
3		3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	36
4		3-Hexanol	102	C6H14O	000623-37-0	36
5		Acetic acid, cyano-, 1,1-dimethyl-	141	C7H11NO2	001116-98-9	28



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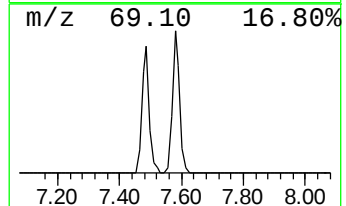
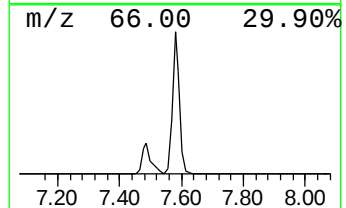
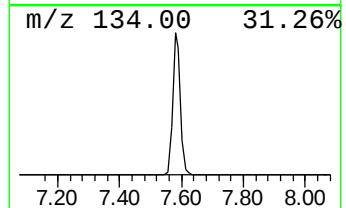
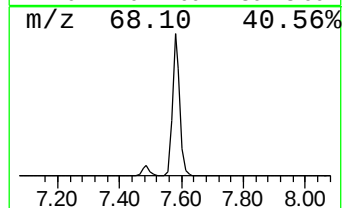
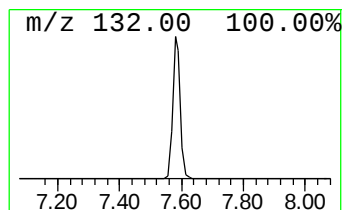
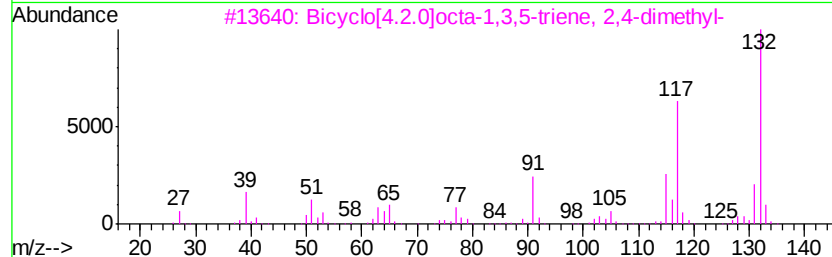
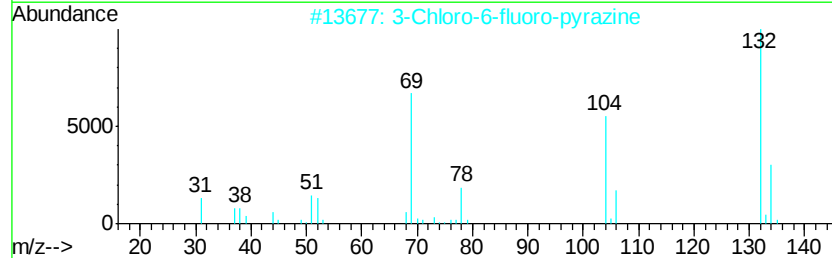
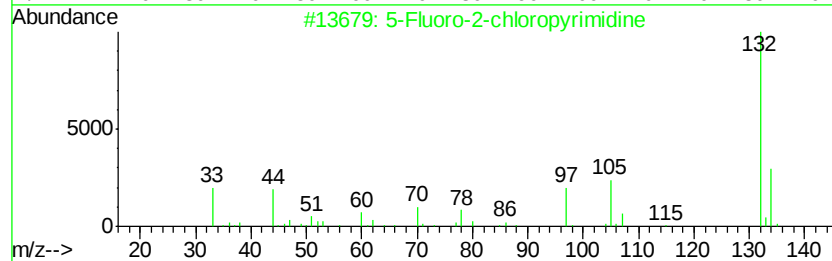
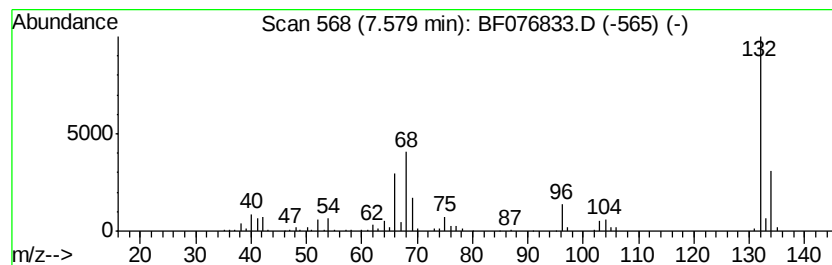
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown7.58 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.58	70.86 ng	686290	1,4-Dichlorobenzene-d4	8.08

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	27
2		3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
3		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4		1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	9
5		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9



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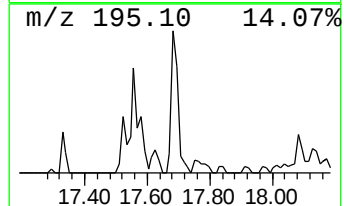
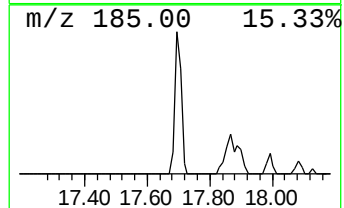
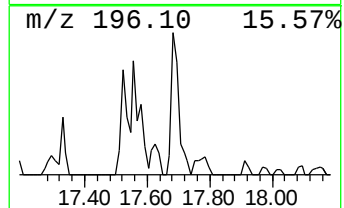
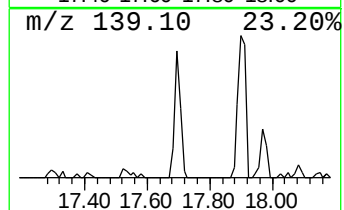
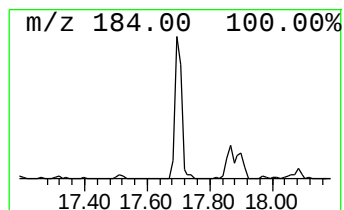
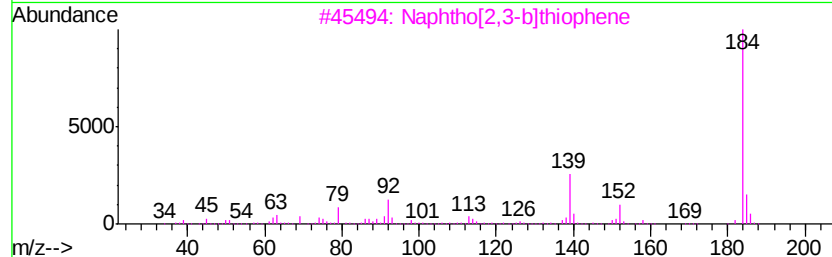
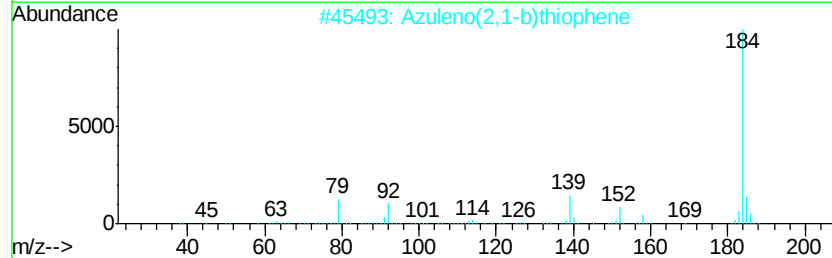
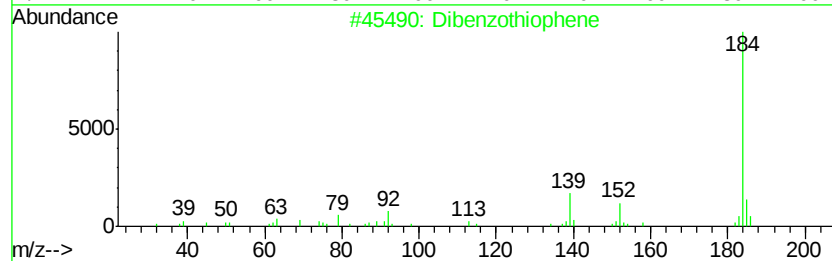
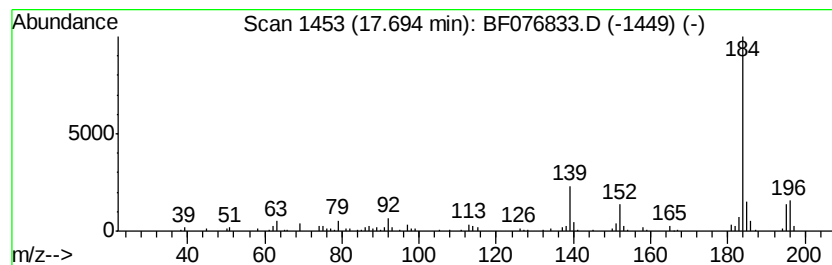
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Dibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.69	15.78 ng	262147	Phenanthrene-d10	17.87

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dibenzothiophene	184	C12H8S	000132-65-0	95
2		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
3		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
4		Naphthalene, 2-ethenvyl-6-methoxy-	184	C13H12O	063444-51-9	52
5		Benzene, 1-methyl-3-phenoxy-	184	C13H12O	003586-14-9	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
Operator : IZ / TP
Sample : G1030-02
Misc : S
ALS Vial : 26 Sample Multiplier: 1

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ClientSampleId :
TP1-SS-2(4-6)

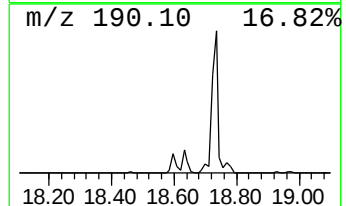
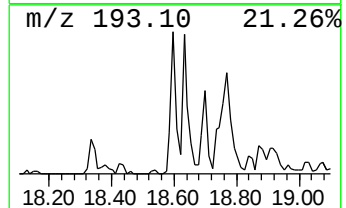
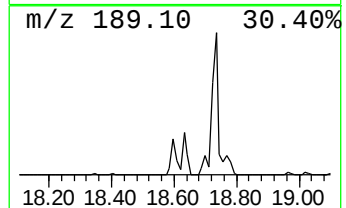
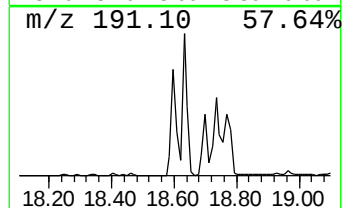
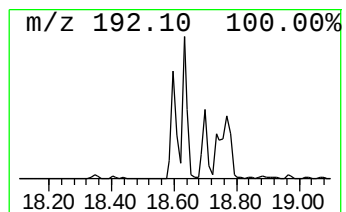
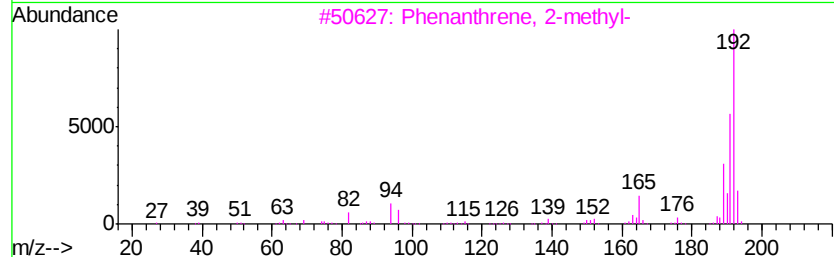
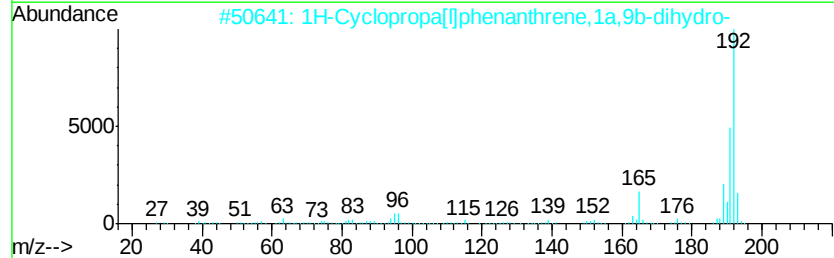
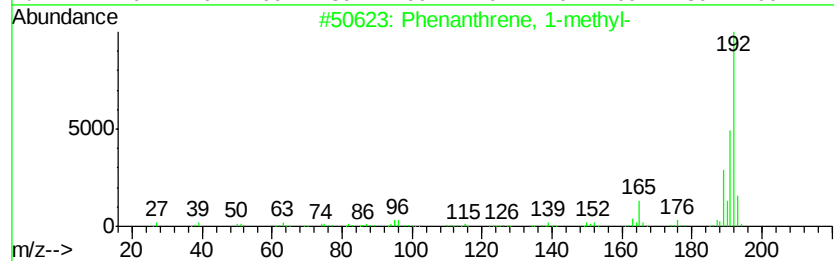
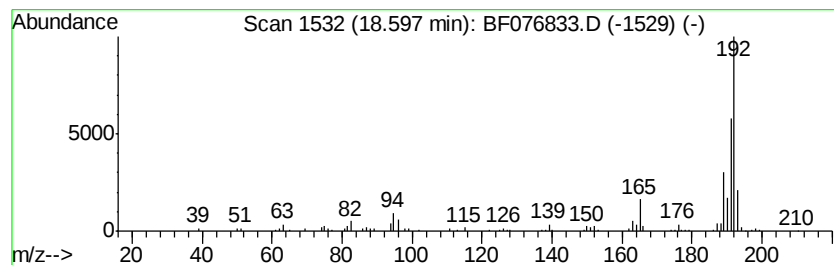
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	21.35 ng	354769	Phenanthrene-d10	17.87

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
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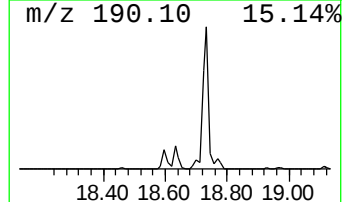
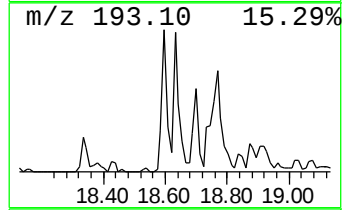
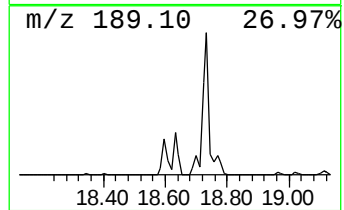
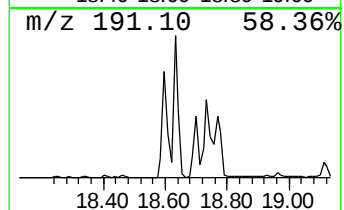
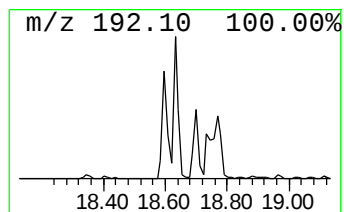
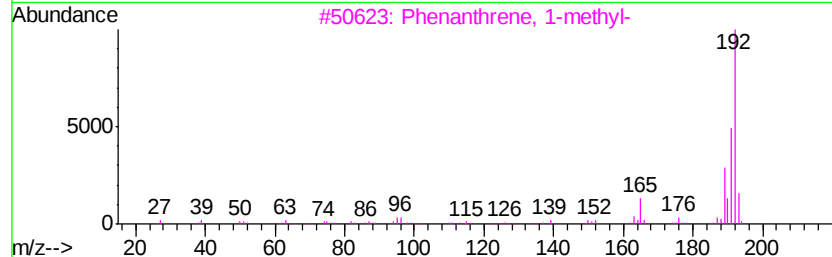
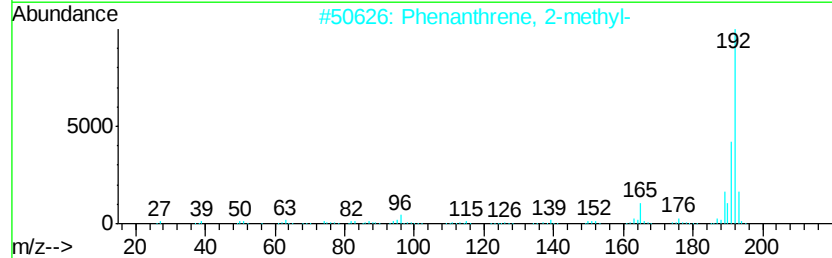
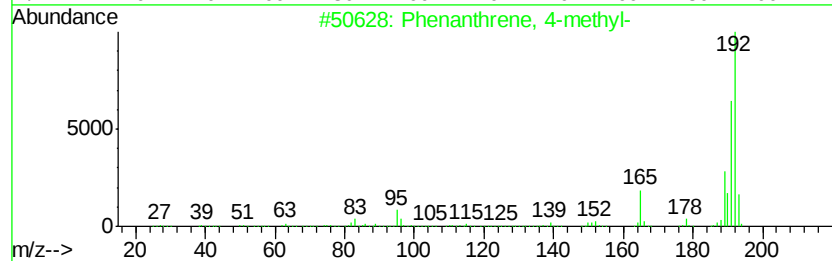
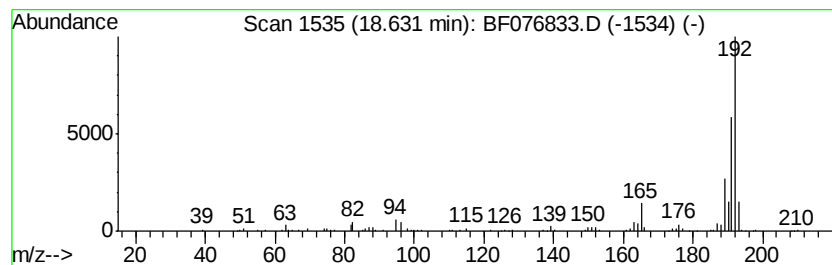
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Phenanthrene, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.63	25.09 ng	416950	Phenanthrene-d10	17.87	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
Operator : IZ / TP
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ALS Vial : 26 Sample Multiplier: 1

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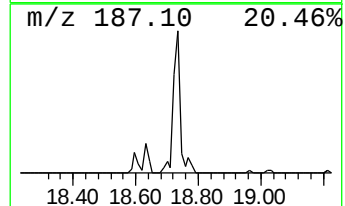
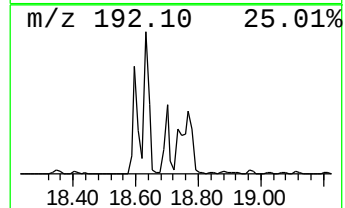
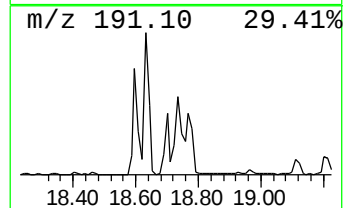
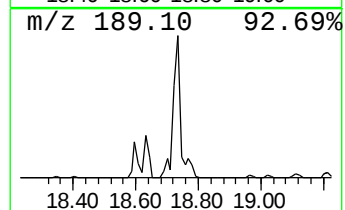
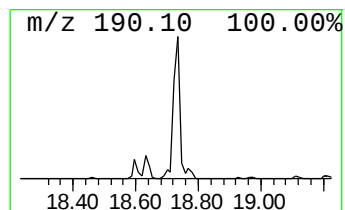
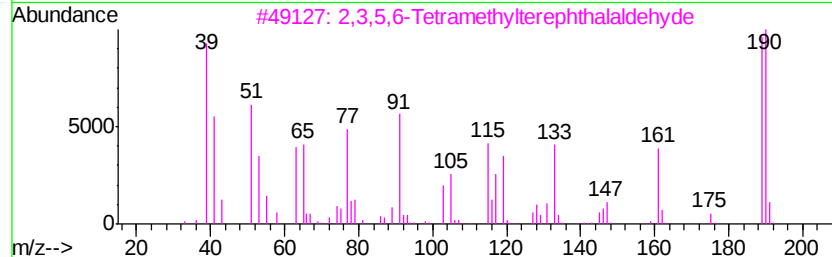
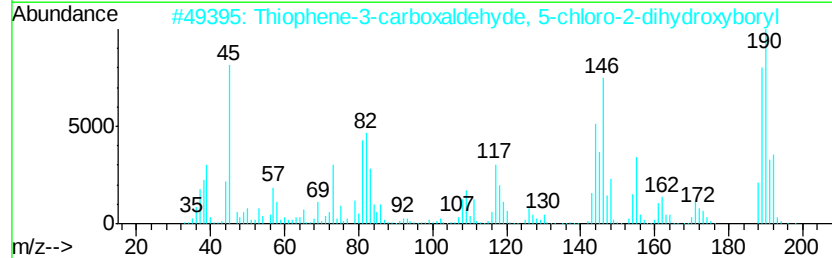
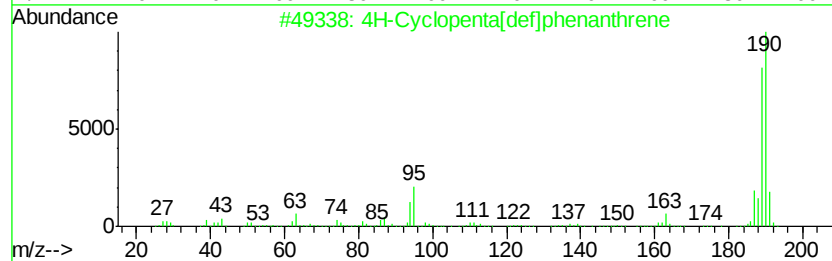
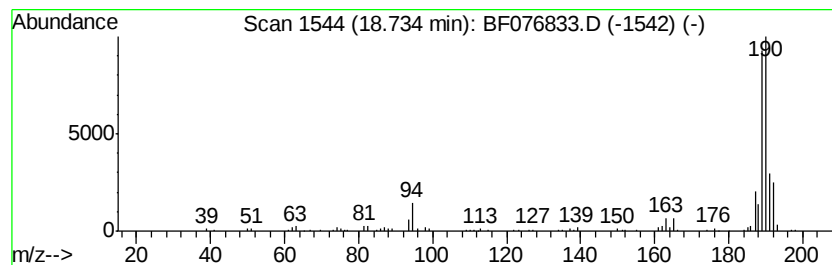
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.73	37.70 ng	626455	Phenanthrene-d10	17.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
2		Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3		2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4		1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	23
5		Methyl diselenide	190	C2H6Se2	007101-31-7	12



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Operator : IZ / TP
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ClientSampleId :
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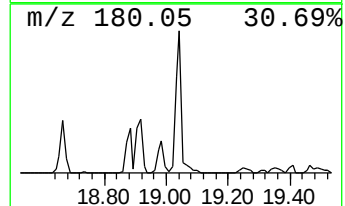
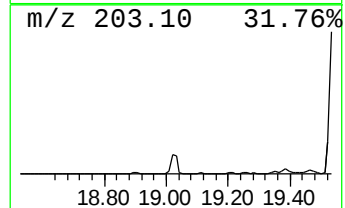
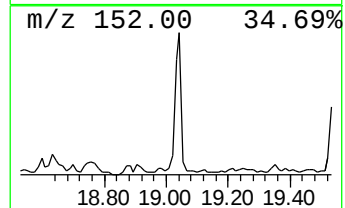
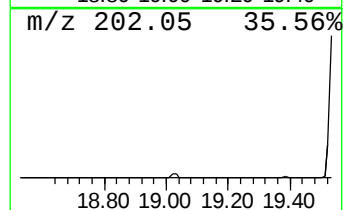
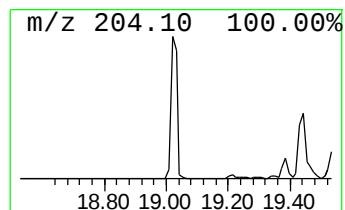
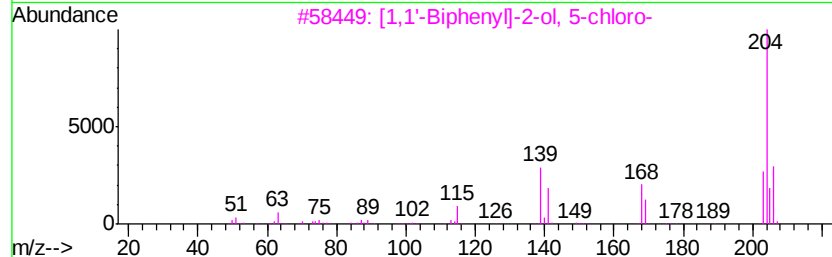
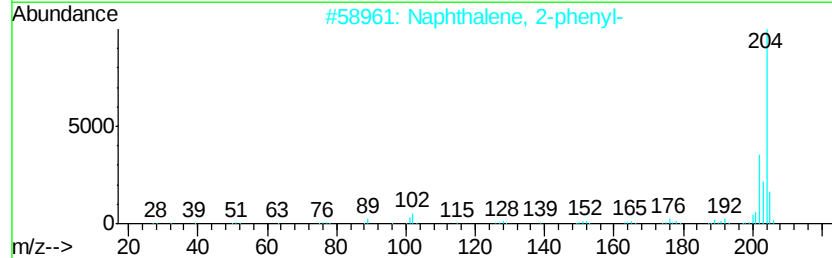
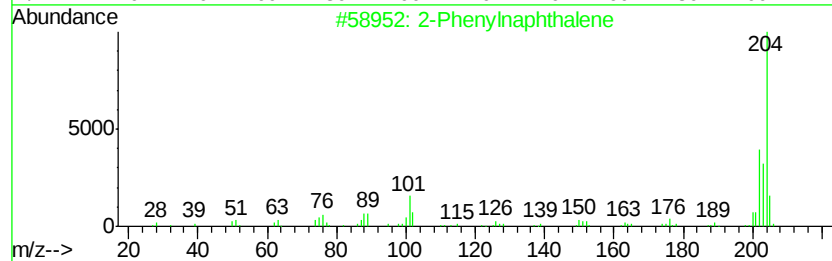
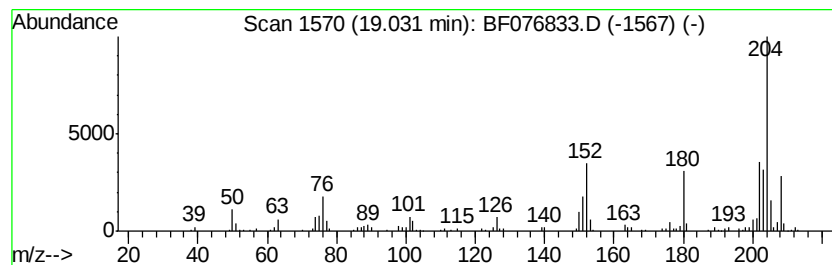
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 2-Phenylnaphthalene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	25.60 ng	425379	Phenanthrene-d10	17.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Phenylnaphthalene	204	C16H12	035465-71-5	50
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	50
3		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	43
5		Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	41



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Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
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ALS Vial : 26 Sample Multiplier: 1

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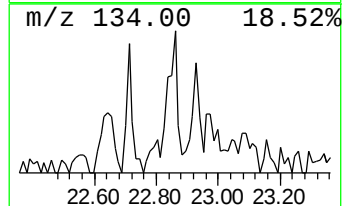
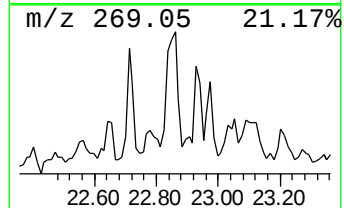
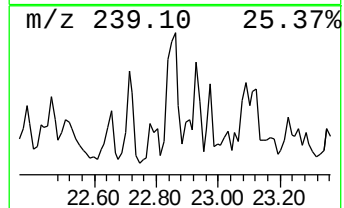
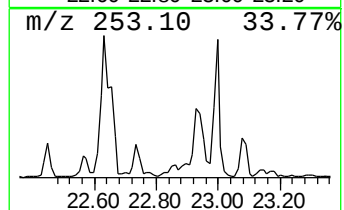
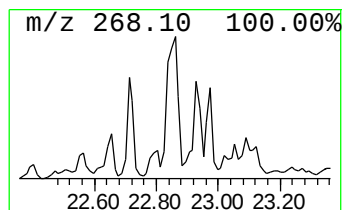
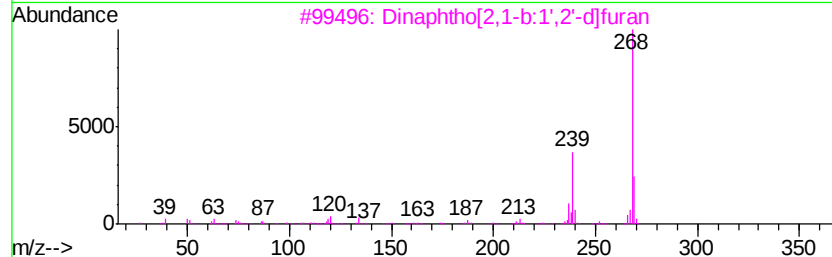
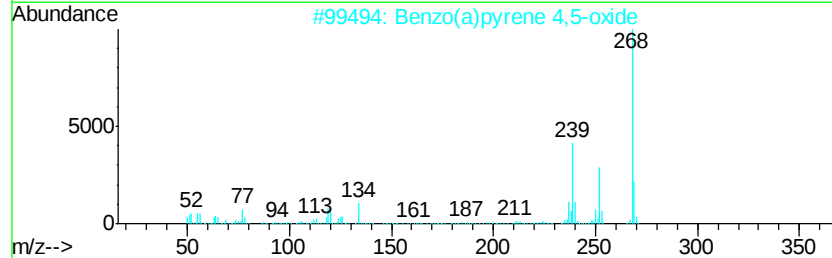
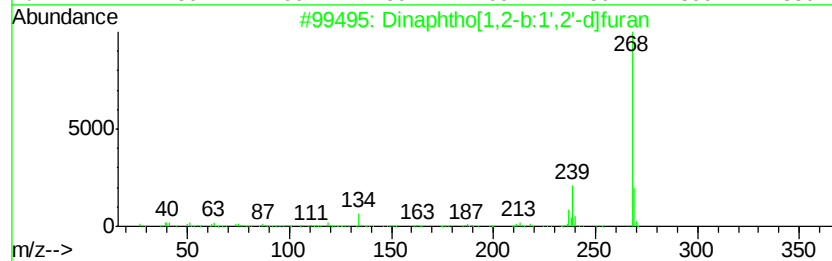
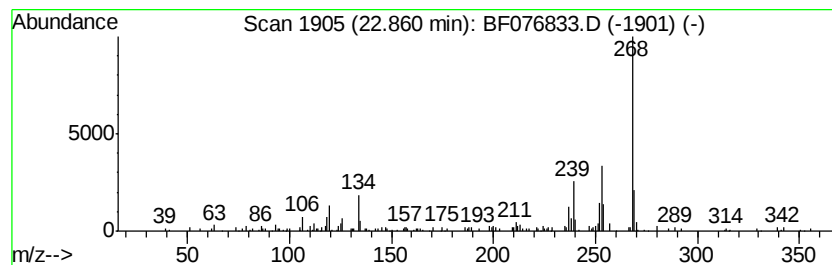
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.86	13.55 ng	218651	Perylene-d12	23.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	93
2		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	83
3		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	76
4		4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	62
5		trans-4,4'-Dimethoxychalcone	268	C17H16O3	041564-67-4	59



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
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Operator : IZ / TP
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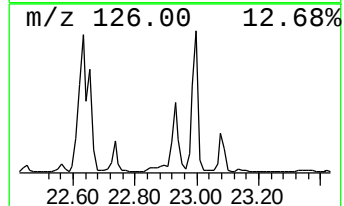
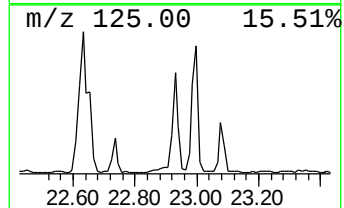
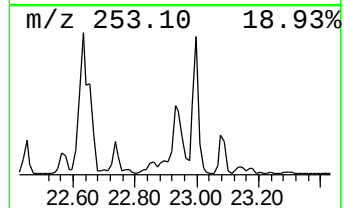
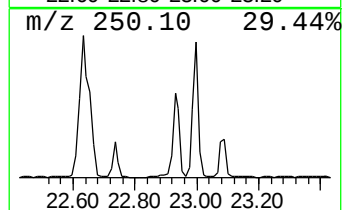
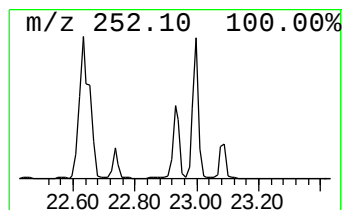
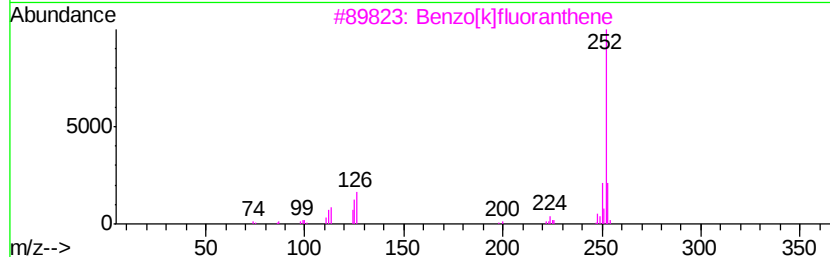
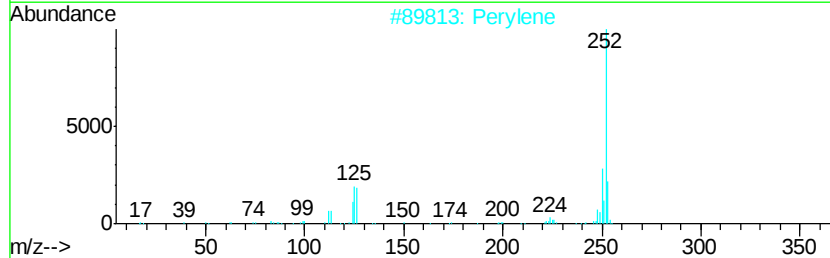
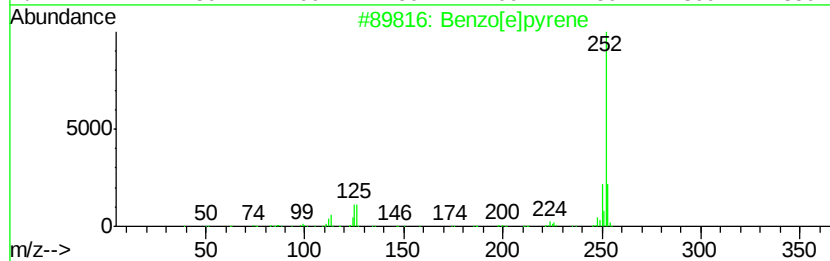
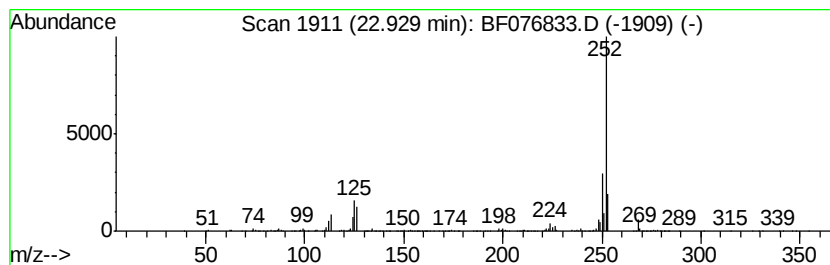
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.93	55.87 ng	901494	Perylene-d12	23.05

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	97
2			Perylene	252	C20H12	000198-55-0	95
3			Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
4			Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	93
5			Benzo[a]pyrene	252	C20H12	000050-32-8	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\
Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
Operator : IZ / TP
Sample : G1030-02
Misc : S
ALS Vial : 26 Sample Multiplier: 1

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ClientSampleId :
TP1-SS-2(4-6)

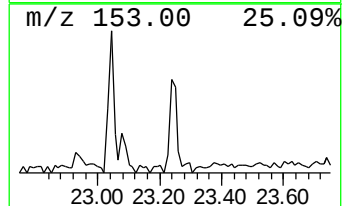
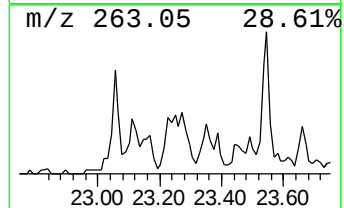
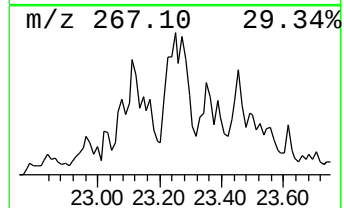
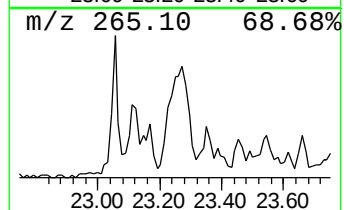
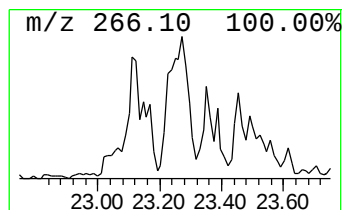
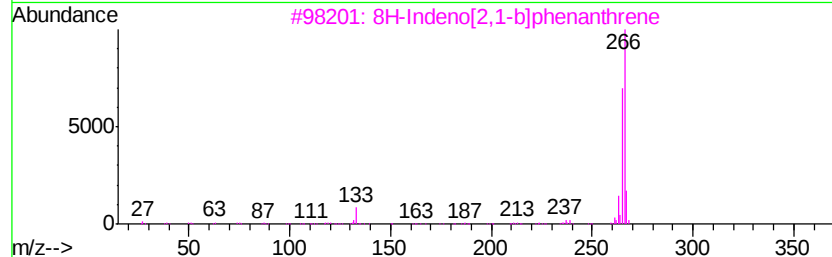
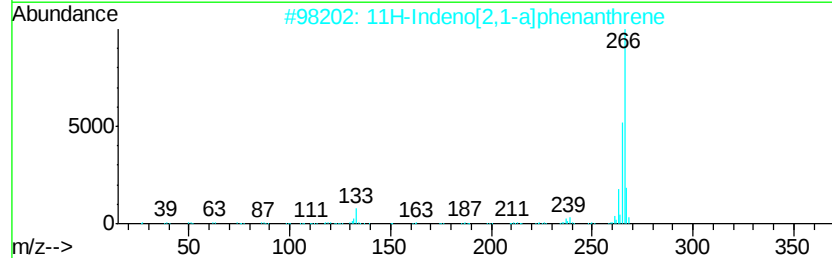
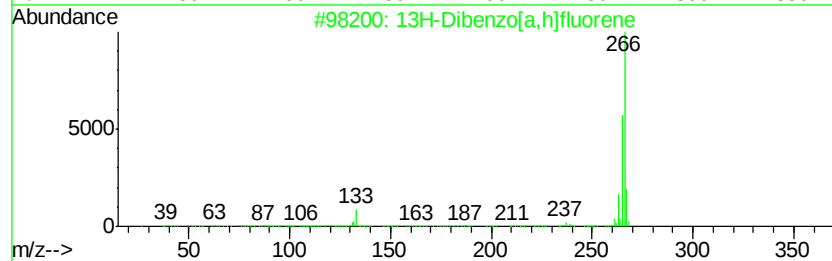
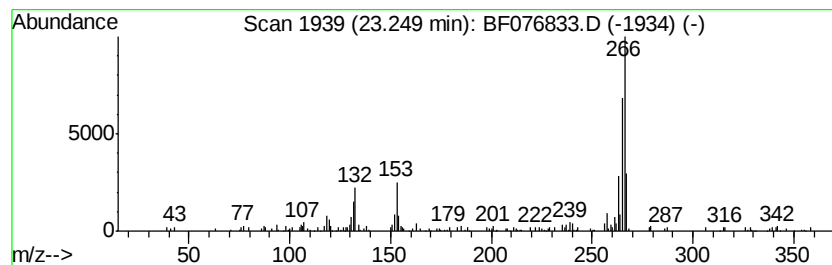
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 13H-Dibenzo[a,h]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.25	15.21 ng	245407	Perylene-d12	23.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	58
2		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	58
3		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	50
4		Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	49
5		4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	42



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
Operator : IZ / TP
Sample : G1030-02
Misc : S
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP1-SS-2(4-6)

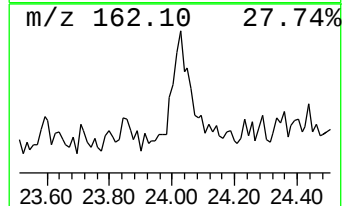
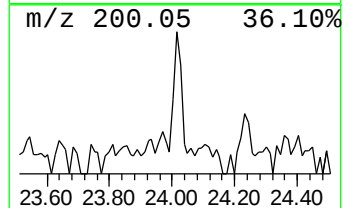
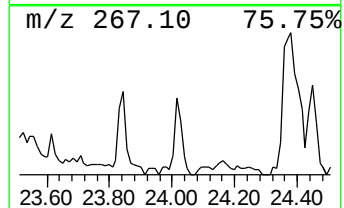
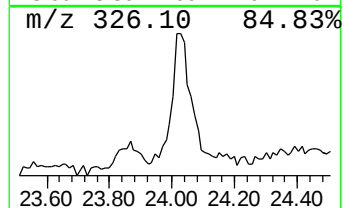
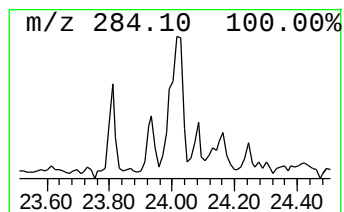
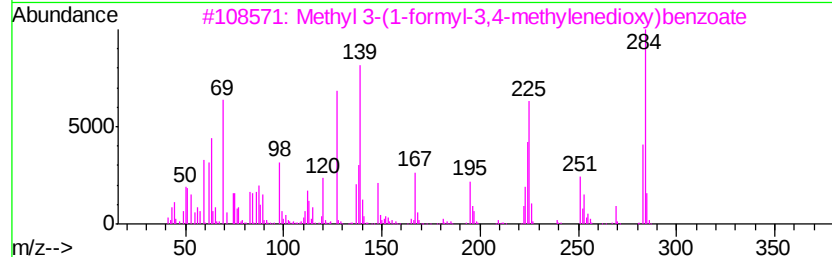
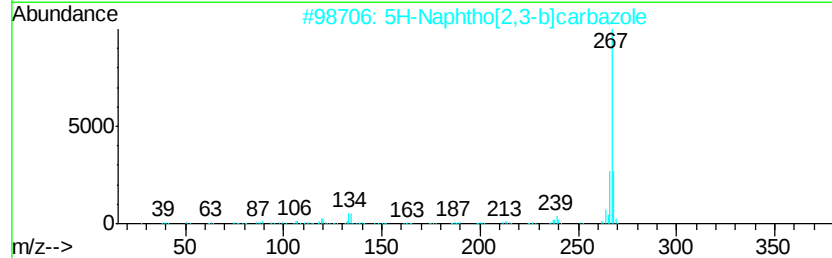
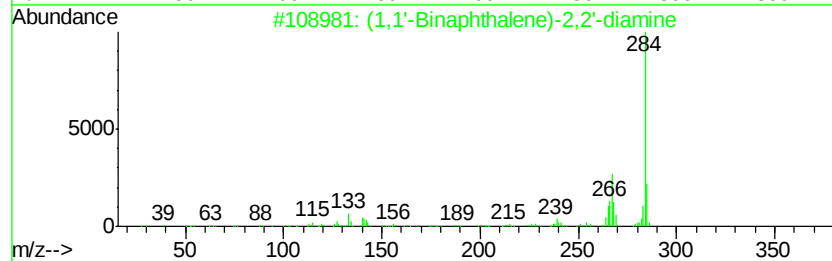
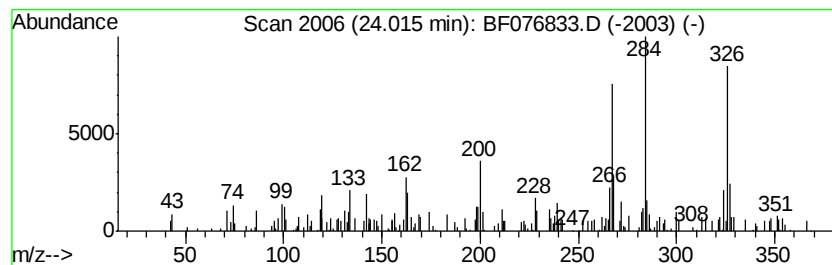
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 unknown24.01 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.01	15.61 ng	251802	Perylene-d12	23.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(1,1'-Binaphthalene)-2,2'-diamine	284	C20H16N2	004488-22-6	46
2		5H-Naphtho[2,3-b]carbazole	267	C20H13N	000248-96-4	35
3		Methyl 3-(1-formyl-3,4-methylene...	284	C16H12O5	1000111-65-9	25
4		Propanenitrile, N-[4-[3-(4-chlor...	324	C19H17ClN2O	1000267-73-6	20
5		.alpha. Bicyclo-octan(1-6,2-3)cy...	326	C22H30O2	033495-95-3	18



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\
Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
Operator : IZ / TP
Sample : G1030-02
Misc : S
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP1-SS-2(4-6)

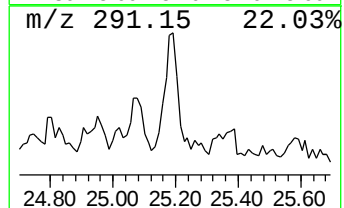
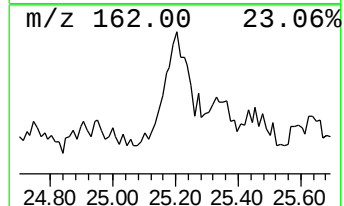
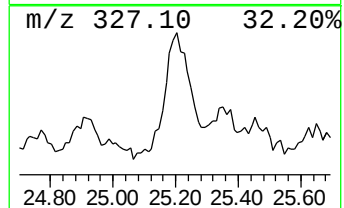
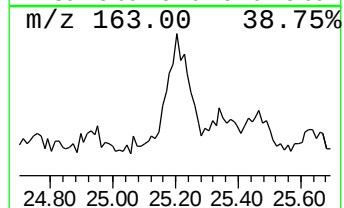
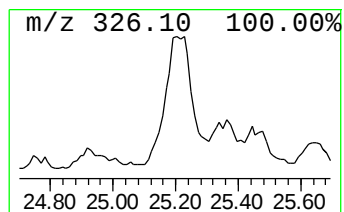
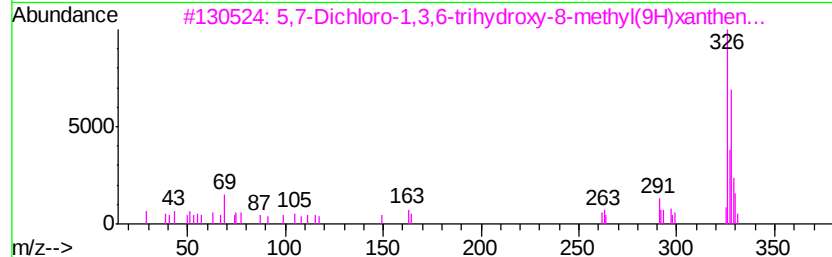
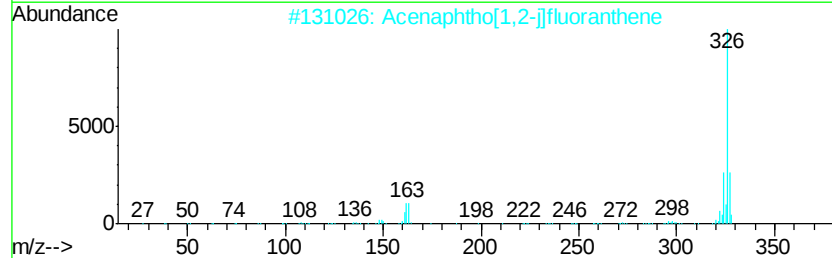
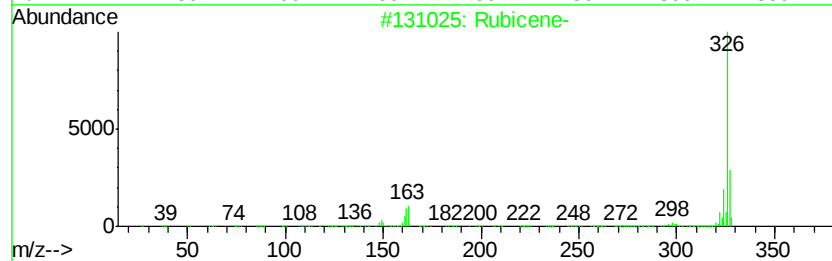
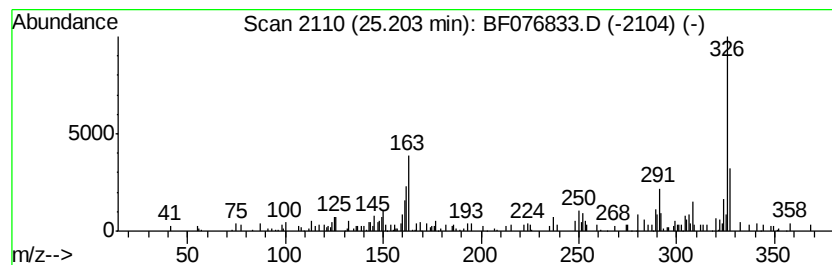
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Rubicene- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.20	20.93 ng	337749	Perylene-d12	23.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Rubicene-	326	C26H14	000197-61-5	70
2		Acenaphtho[1,2-ij]fluoranthene	326	C26H14	000193-21-5	55
3		5,7-Dichloro-1,3,6-trihydroxy-8-...	326	C14H8Cl2O5	1000075-80-6	46
4		Benzene, 1,3-bis(4-phenyl-1,3-butadienyl)-	326	C26H14	037902-13-9	45
5		Bis(pentamethylcyclopentadienyl)...	326	C20H30Fe	012126-50-0	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
Operator : IZ / TP
Sample : G1030-02
Misc : S
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP1-SS-2(4-6)

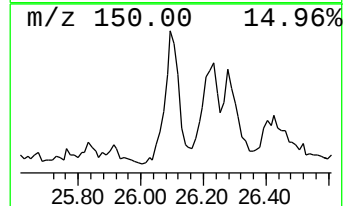
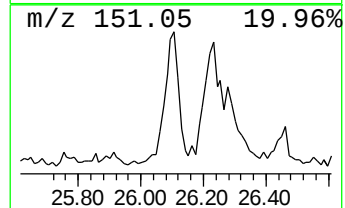
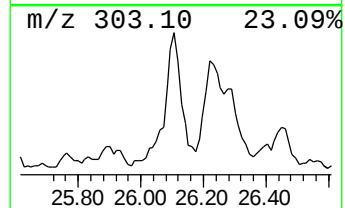
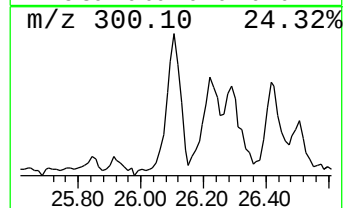
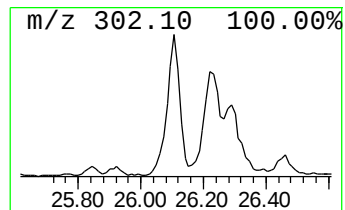
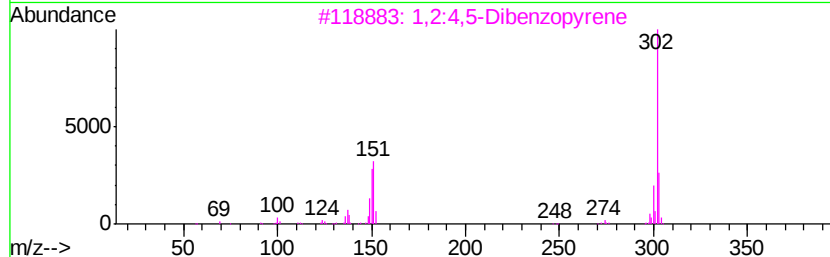
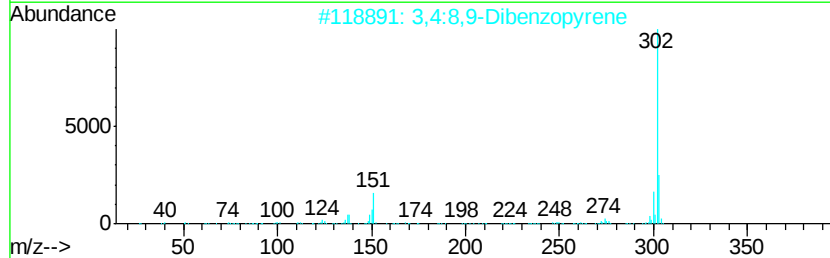
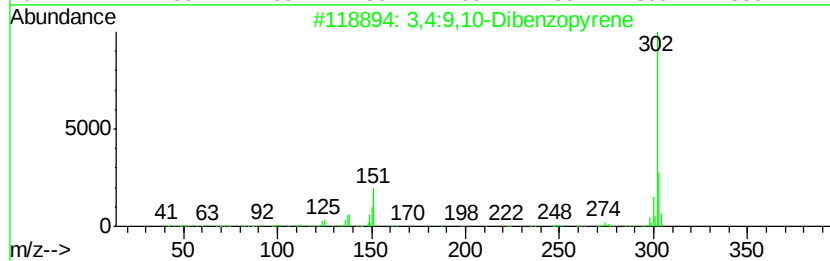
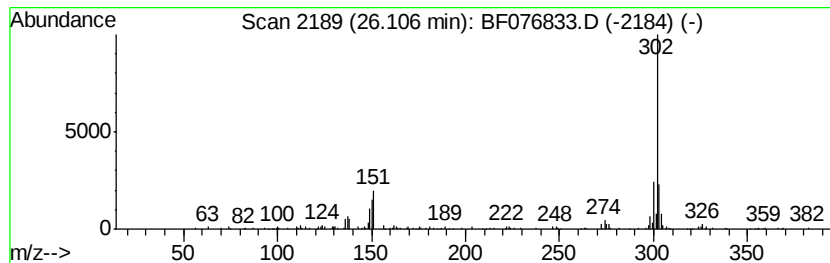
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 3,4:9,10-Dibenzopyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.11	19.07 ng	307645	Perylene-d12	23.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	96
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	95
3		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93
4		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	91
5		Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	72



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
Data File : BF076833.D
Acq On : 13 Jan 2015 7:02
Operator : IZ / TP
Sample : G1030-02
Misc : S
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP1-SS-2(4-6)

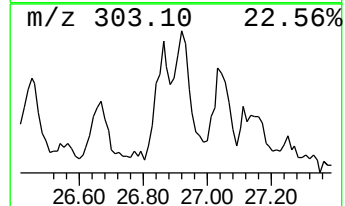
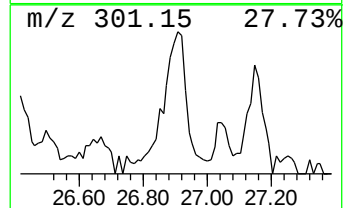
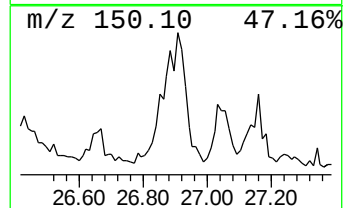
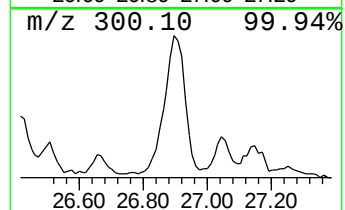
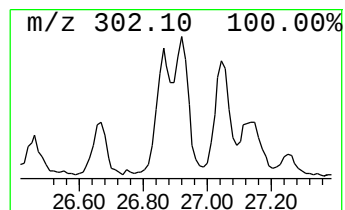
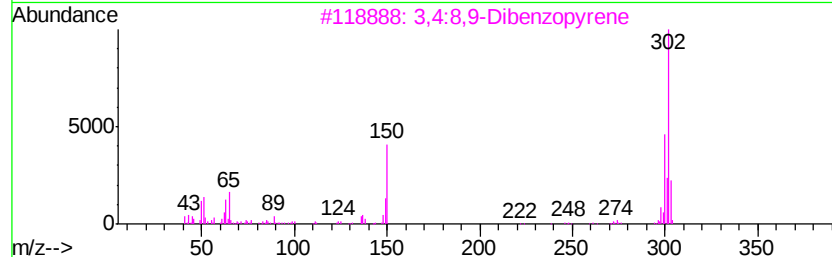
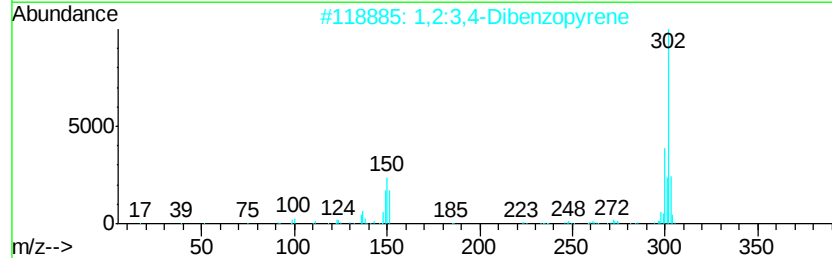
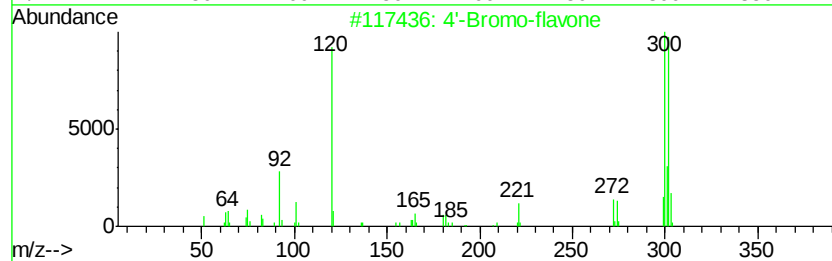
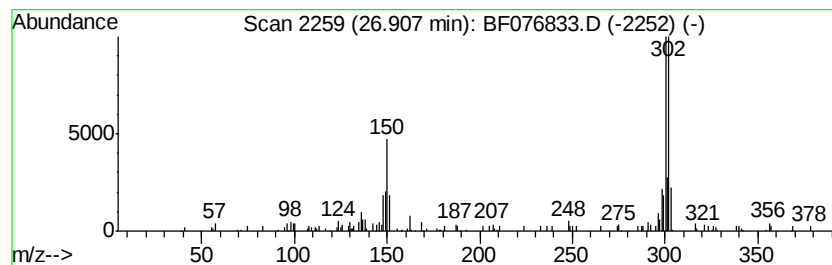
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 4'-Bromo-flavone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.91	21.69 ng	349929	Perylene-d12	23.05

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4'-Bromo-flavone	300	C15H9BrO2	020525-20-6	52
2		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	46
3		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	46
4		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	46
5		Coronene	300	C24H12	000191-07-1	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011215\
 Data File : BF076833.D
 Acq On : 13 Jan 2015 7:02
 Operator : IZ / TP
 Sample : G1030-02
 Misc : S
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP1-SS-2(4-6)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.24	20.5	ng	198273	1	8.08	193690	20.0
unknown7.58	7.58	70.9	ng	686290	1	8.08	193690	20.0
Dibenzothiophene	17.69	15.8	ng	262147	4	17.87	332302	20.0
Phenanthrene, 1-m...	18.60	21.4	ng	354769	4	17.87	332302	20.0
Phenanthrene, 4-m...	18.63	25.1	ng	416950	4	17.87	332302	20.0
4H-Cyclopenta[def...	18.73	37.7	ng	626455	4	17.87	332302	20.0
2-Phenylnaphthalene	19.03	25.6	ng	425379	4	17.87	332302	20.0
Dinaphtho[1,2-b:1...	22.86	13.6	ng	218651	6	23.05	322715	20.0
Benzo[e]pyrene	22.93	55.9	ng	901494	6	23.05	322715	20.0
13H-Dibenzo[a,h]f...	23.25	15.2	ng	245407	6	23.05	322715	20.0
unknown24.01	24.01	15.6	ng	251802	6	23.05	322715	20.0
Rubicene-	25.20	20.9	ng	337749	6	23.05	322715	20.0
3,4:9,10-Dibenzop...	26.11	19.1	ng	307645	6	23.05	322715	20.0
4'-Bromo-flavone	26.91	21.7	ng	349929	6	23.05	322715	20.0