

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
 Data File : BF101897.D
 Acq On : 4 Jan 2018 18:08
 Operator : SJ/JU
 Sample : J1033-06 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3(10)

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-BF121417.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	4.987	490	493	509	rBV	30647	72783	2.74%	0.211%
2	5.416	562	566	587	rBV	230883	648746	24.39%	1.882%
3	6.439	737	740	757	rBV	246650	648455	24.38%	1.881%
4	6.557	757	760	780	rVB	485699	778548	29.27%	2.258%
5	6.769	793	796	811	rBV	702583	776837	29.20%	2.253%
6	6.928	819	823	839	rBV	440402	508097	19.10%	1.474%
7	7.357	893	896	913	rBV	192679	400835	15.07%	1.163%
8	8.051	1011	1014	1028	rBV	728320	935101	35.15%	2.712%
9	8.775	1134	1137	1145	rBV	40618	55011	2.07%	0.160%
10	8.874	1150	1154	1161	rVV	46573	58452	2.20%	0.170%
11	9.127	1193	1197	1205	rBV	474172	505730	19.01%	1.467%
12	9.404	1237	1244	1251	rBV	26374	43292	1.63%	0.126%
13	9.469	1251	1255	1258	rVV	55744	65822	2.47%	0.191%
14	9.498	1258	1260	1263	rVV	38767	42104	1.58%	0.122%
15	9.527	1263	1265	1271	rVV	45902	49169	1.85%	0.143%
16	9.592	1271	1276	1282	rVB	28637	45467	1.71%	0.132%
17	9.674	1287	1290	1295	rVB2	39412	43719	1.64%	0.127%
18	9.810	1302	1313	1316	rBV	729049	760490	28.59%	2.206%
19	9.839	1316	1318	1327	rVB	220913	228120	8.58%	0.662%
20	9.922	1327	1332	1335	rBV2	25299	36926	1.39%	0.107%
21	9.963	1335	1339	1344	rVB2	38642	44560	1.68%	0.129%
22	10.021	1344	1349	1353	rBV2	83944	113336	4.26%	0.329%
23	10.216	1377	1382	1385	rBV2	52409	60040	2.26%	0.174%
24	10.363	1400	1407	1412	rBV	161145	175138	6.58%	0.508%
25	10.521	1431	1434	1437	rVB	54941	56409	2.12%	0.164%
26	10.610	1444	1449	1454	rBV2	216744	295731	11.12%	0.858%
27	10.692	1460	1463	1466	rBV2	29531	32823	1.23%	0.095%
28	10.910	1493	1500	1503	rBV2	66327	109039	4.10%	0.316%
29	11.033	1516	1521	1523	rBV2	38517	56684	2.13%	0.164%
30	11.057	1523	1525	1530	rVB2	39138	34494	1.30%	0.100%
31	11.127	1534	1537	1540	rBV	95192	114678	4.31%	0.333%
32	11.198	1546	1549	1555	rVB	142777	148878	5.60%	0.432%
33	11.304	1563	1567	1568	rBV	754282	657315	24.71%	1.906%
34	11.327	1568	1571	1577	rVV	2149953	1965169	73.87%	5.700%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.380	1577	1580	1588	rVB	370538	383366	14.41%	1.112%
36	11.551	1605	1609	1613	rBV2	166053	199089	7.48%	0.577%
37	11.586	1613	1615	1618	rVB	68496	56430	2.12%	0.164%
38	11.633	1618	1623	1626	rBV	77143	100487	3.78%	0.291%
39	11.716	1634	1637	1644	rVB2	61418	84199	3.17%	0.244%
40	11.774	1644	1647	1649	rBV3	32164	40645	1.53%	0.118%
41	11.804	1649	1652	1655	rVV	476590	435646	16.38%	1.264%
42	11.833	1655	1657	1663	rVV	538720	467814	17.59%	1.357%
43	11.886	1663	1666	1668	rVV	131603	118958	4.47%	0.345%
44	11.915	1668	1671	1673	rVV2	527814	551812	20.74%	1.600%
45	11.939	1673	1675	1679	rVV	318763	301770	11.34%	0.875%
46	11.998	1683	1685	1688	rBV3	36859	38626	1.45%	0.112%
47	12.027	1688	1690	1694	rBV2	37245	55743	2.10%	0.162%
48	12.098	1698	1702	1707	rVV	265720	281803	10.59%	0.817%
49	12.157	1709	1712	1717	rVB2	240942	310963	11.69%	0.902%
50	12.245	1724	1727	1730	rBV	128393	97508	3.67%	0.283%
51	12.280	1730	1733	1735	rBV	103667	83311	3.13%	0.242%
52	12.310	1735	1738	1741	rVB2	79972	84405	3.17%	0.245%
53	12.351	1742	1745	1748	rBV	313904	332776	12.51%	0.965%
54	12.392	1748	1752	1754	rVV3	121466	172736	6.49%	0.501%
55	12.410	1754	1755	1758	rVV	70456	48013	1.80%	0.139%
56	12.439	1758	1760	1762	rVV	89315	94522	3.55%	0.274%
57	12.463	1762	1764	1770	rVB2	162249	185536	6.97%	0.538%
58	12.521	1770	1774	1778	rBV	2239861	2211065	83.12%	6.413%
59	12.557	1778	1780	1782	rVB2	61015	45806	1.72%	0.133%
60	12.580	1782	1784	1789	rVB3	92430	94212	3.54%	0.273%
61	12.621	1789	1791	1796	rVB4	33563	46949	1.76%	0.136%
62	12.674	1796	1800	1805	rBV2	219023	277339	10.43%	0.804%
63	12.757	1806	1814	1818	rBV	2414082	2660164	100.00%	7.715%
64	12.804	1818	1822	1826	rVB2	151343	164007	6.17%	0.476%
65	12.880	1832	1835	1838	rBV	603083	543833	20.44%	1.577%
66	12.933	1841	1844	1846	rBV	76604	67453	2.54%	0.196%
67	12.974	1846	1851	1856	rVB2	209680	329205	12.38%	0.955%
68	13.015	1856	1858	1861	rBV3	63876	72032	2.71%	0.209%
69	13.080	1861	1869	1874	rVB2	322083	589171	22.15%	1.709%
70	13.127	1874	1877	1878	rBV2	49153	52449	1.97%	0.152%
71	13.145	1878	1880	1883	rVB	135559	109429	4.11%	0.317%

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72	13.186	1883	1887	1894	rBV2	330909	442996	16.65%	1.285%
73	13.280	1900	1903	1905	rBV	269987	242745	9.13%	0.704%
74	13.310	1905	1908	1917	rVB	247912	315835	11.87%	0.916%
75	13.421	1924	1927	1930	rBV3	45989	64100	2.41%	0.186%
76	13.457	1930	1933	1935	rBV3	46218	45737	1.72%	0.133%
77	13.504	1939	1941	1943	rBV2	44741	42900	1.61%	0.124%
78	13.609	1956	1959	1964	rVB	268921	254430	9.56%	0.738%
79	13.651	1964	1966	1969	rVB	43918	34182	1.28%	0.099%
80	13.721	1970	1978	1982	rBV3	393915	615107	23.12%	1.784%
81	13.757	1982	1984	1986	rBV	211218	200639	7.54%	0.582%
82	13.821	1992	1995	1999	rVB	297933	263640	9.91%	0.765%
83	13.951	2012	2017	2020	rBV2	1520721	2262119	85.04%	6.561%
84	13.986	2020	2023	2028	rVB	1230845	1339850	50.37%	3.886%
85	14.062	2034	2036	2040	rVB	197253	174166	6.55%	0.505%
86	14.127	2045	2047	2051	rVB5	65237	88286	3.32%	0.256%
87	14.198	2057	2059	2064	rVB2	90877	98450	3.70%	0.286%
88	14.304	2075	2077	2079	rVB	65315	49312	1.85%	0.143%
89	14.345	2079	2084	2087	rBV	347462	392238	14.74%	1.138%
90	14.380	2087	2090	2093	rVB	169939	148225	5.57%	0.430%
91	14.415	2093	2096	2099	rBV	183592	191286	7.19%	0.555%
92	14.474	2103	2106	2112	rVB4	153118	244829	9.20%	0.710%
93	15.004	2191	2196	2199	rBV	895820	1302890	48.98%	3.779%
94	15.109	2211	2214	2221	rBV	136340	161183	6.06%	0.467%
95	15.304	2243	2247	2251	rVB	504707	578412	21.74%	1.678%
96	15.368	2254	2258	2263	rVB	748762	889721	33.45%	2.581%
97	15.427	2263	2268	2271	rBV	463495	626221	23.54%	1.816%
98	15.462	2271	2274	2280	rVB2	146180	224144	8.43%	0.650%
99	16.915	2516	2521	2529	rVB	187825	398910	15.00%	1.157%
100	17.362	2593	2597	2611	rVB	177306	428724	16.12%	1.243%

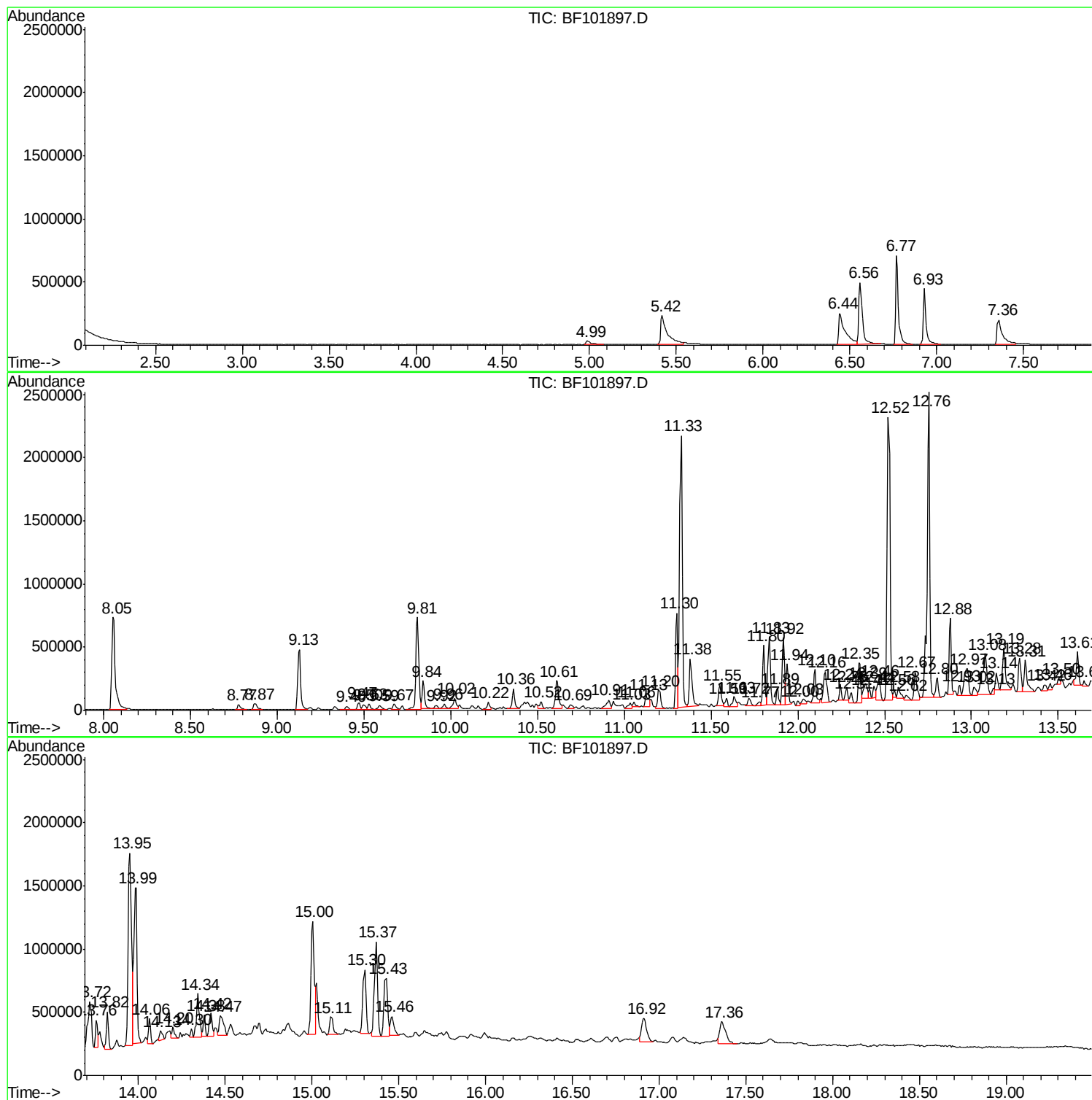
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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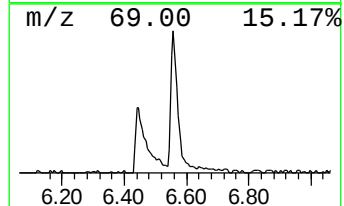
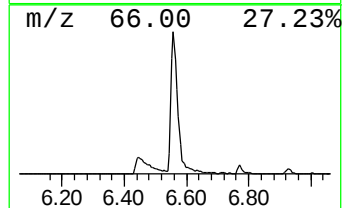
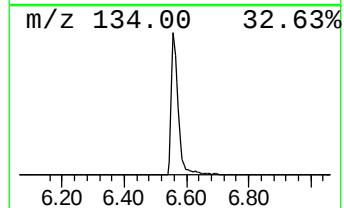
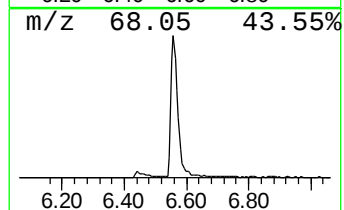
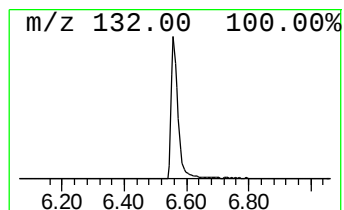
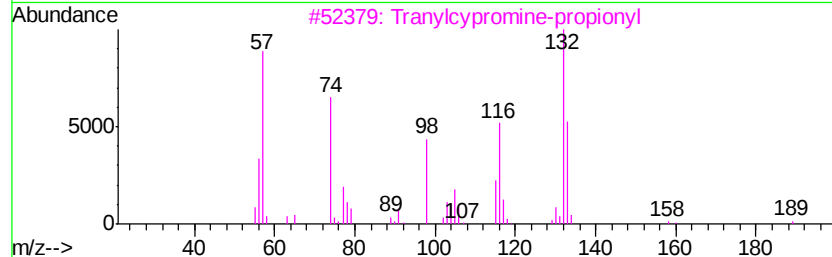
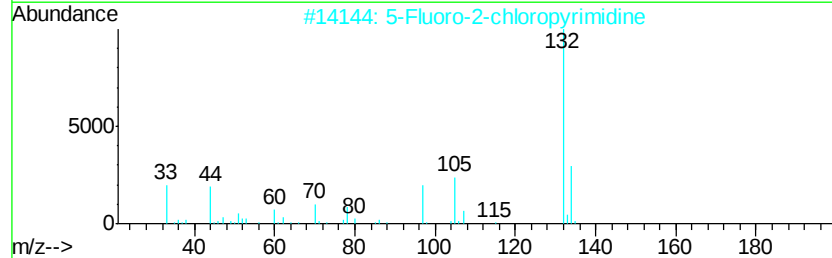
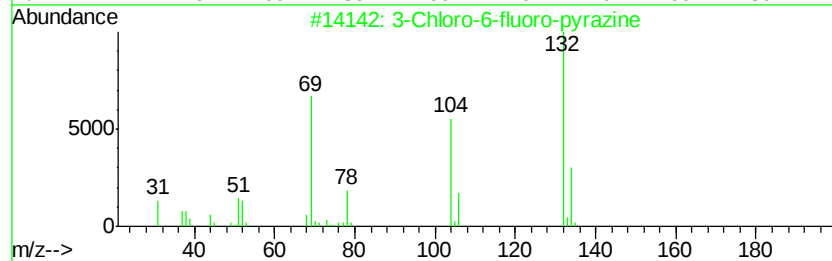
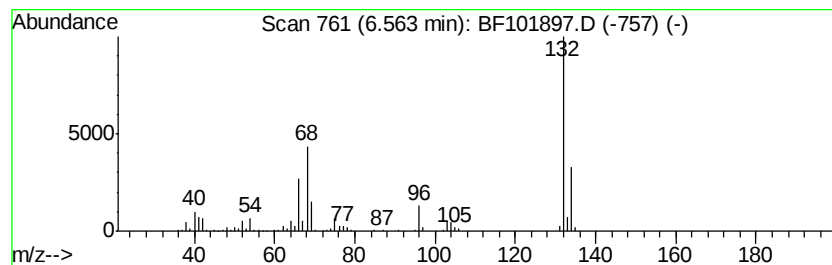
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	20.04 ng	778548	1,4-Dichlorobenzene-d4	6.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3		Tranvlcyproline-propionyl	189	C12H15NO	1000123-86-3	10
4		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5		4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9



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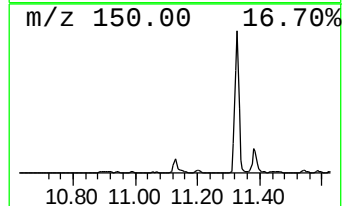
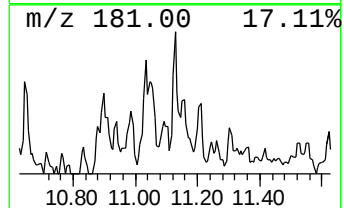
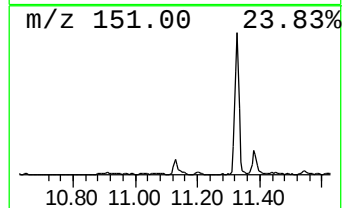
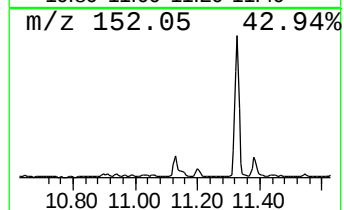
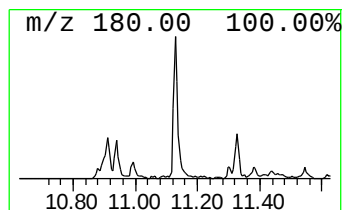
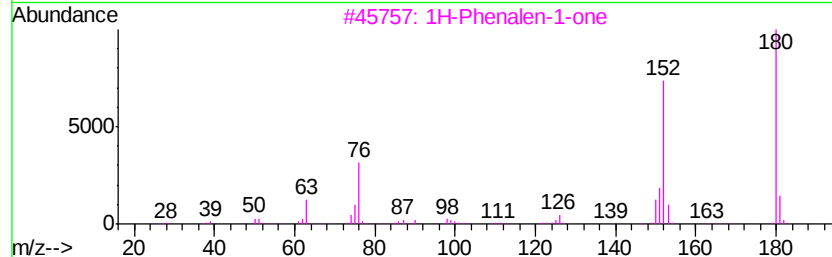
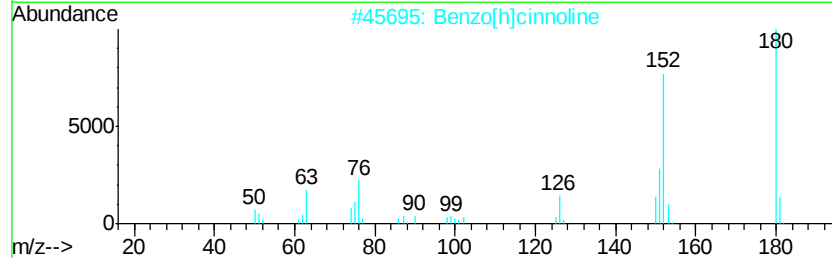
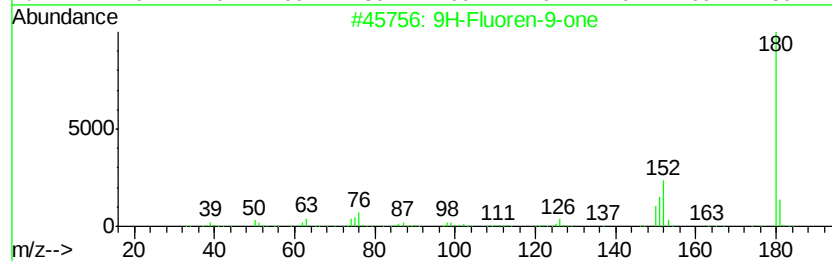
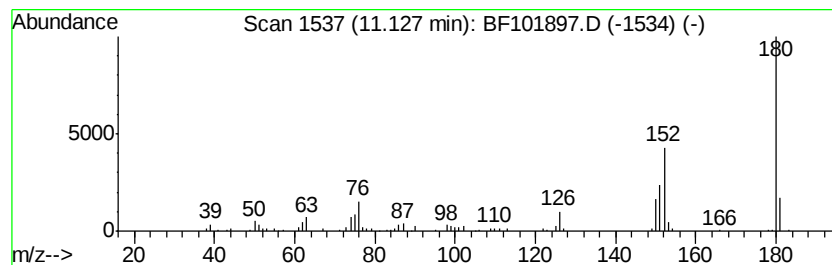
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 9H-Fluoren-9-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	3.49 ng	114678	Phenanthrene-d10	11.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	83
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	72
4		6H-Purine-6-thione, 9-ethyl-1,9-...	180	C7H8N4S	005427-20-3	58
5		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53



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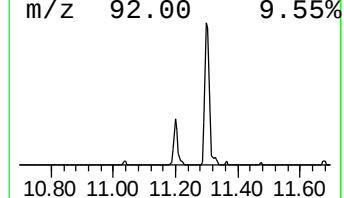
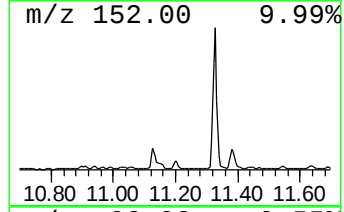
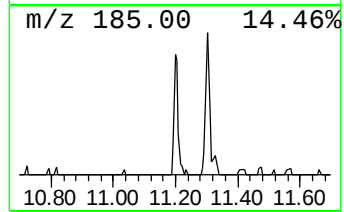
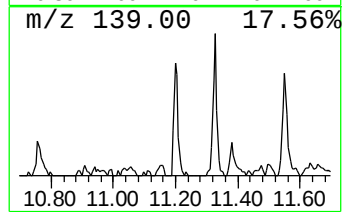
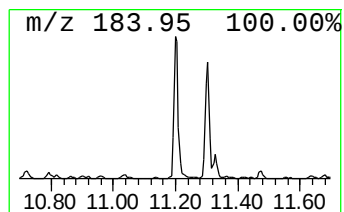
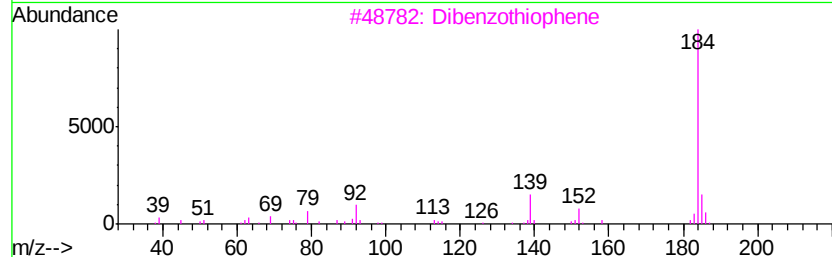
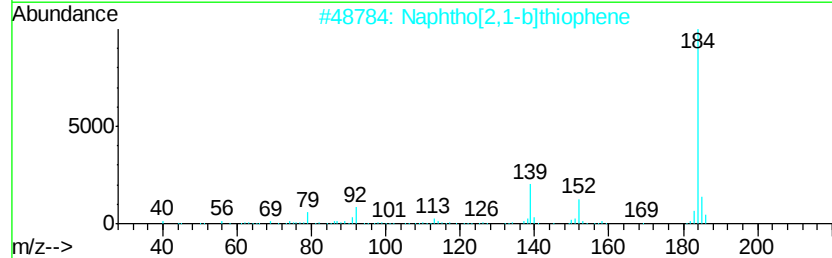
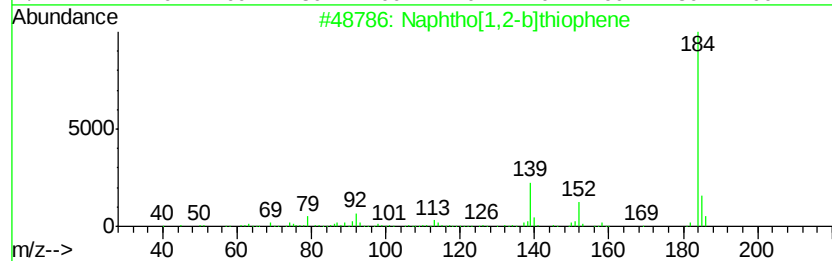
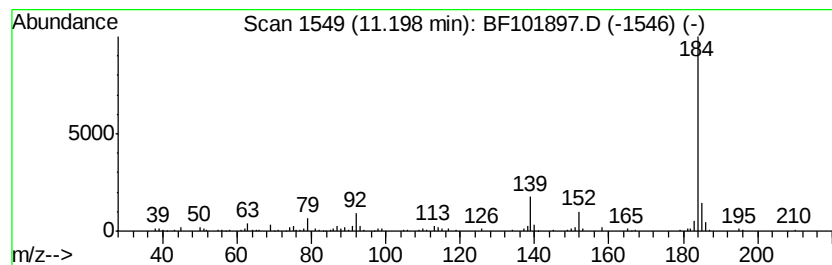
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Naphtho[1,2-b]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	4.53 ng	148878	Phenanthrene-d10	11.30

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3		Dibenzothiophene	184	C12H8S	000132-65-0	96
4		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-3(10)

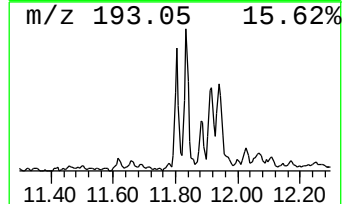
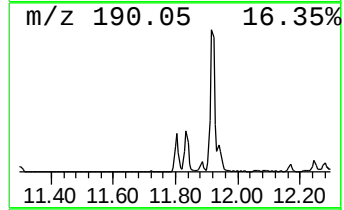
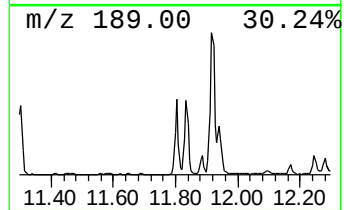
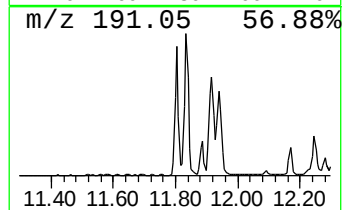
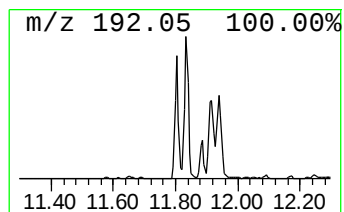
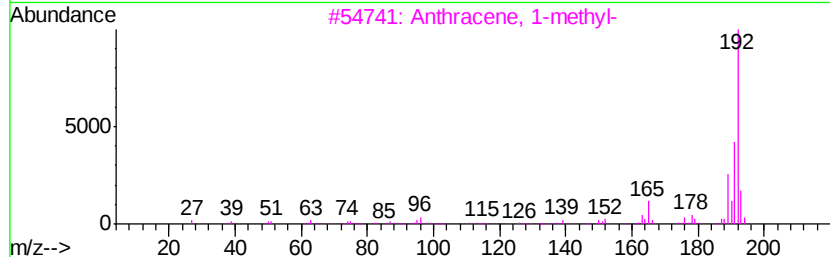
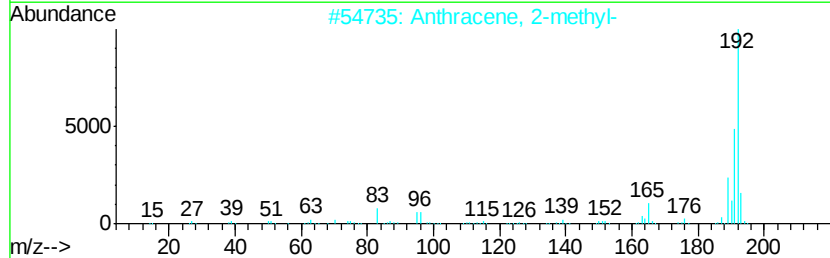
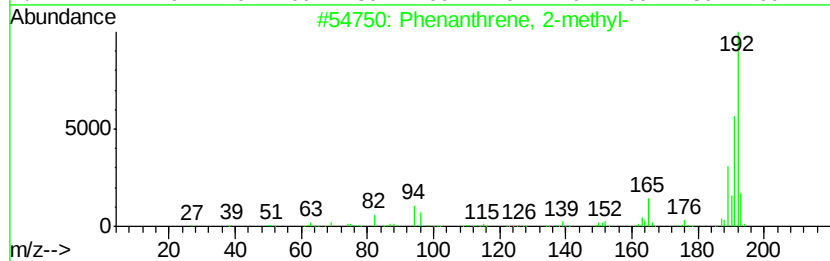
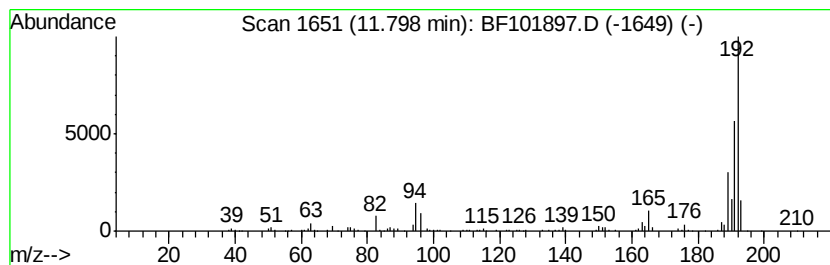
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	13.26 ng	435646	Phenanthrene-d10	11.30

Hit# of	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
Sample : J1033-06 5X
Misc :
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Instrument :
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ClientSampleId :
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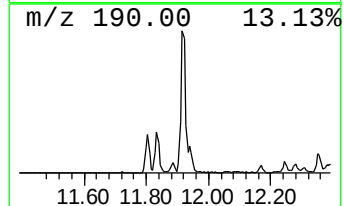
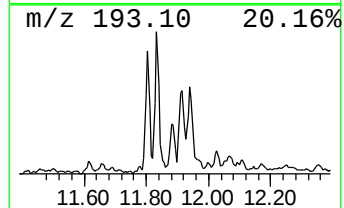
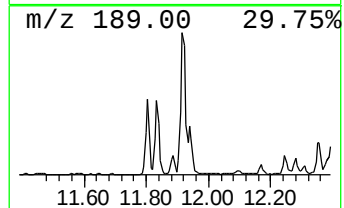
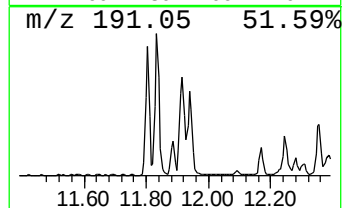
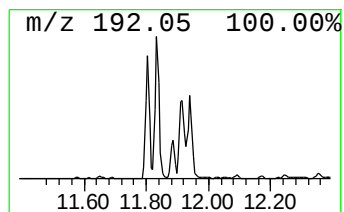
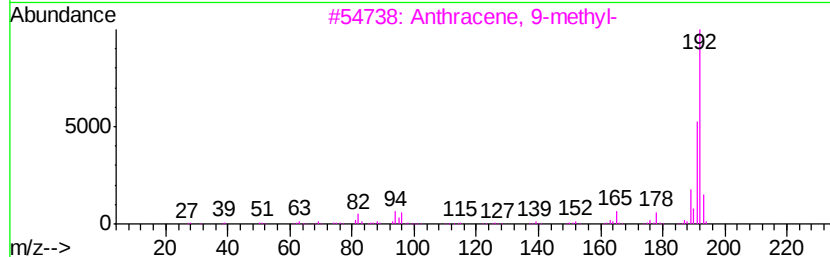
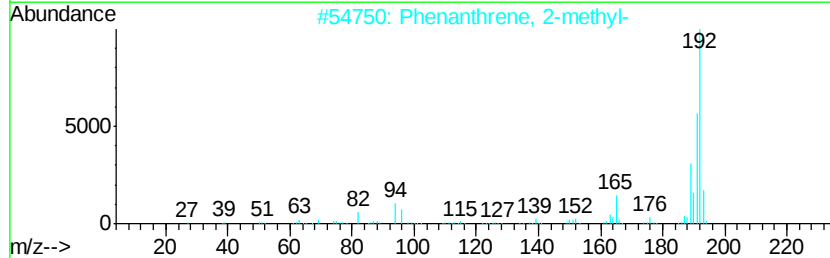
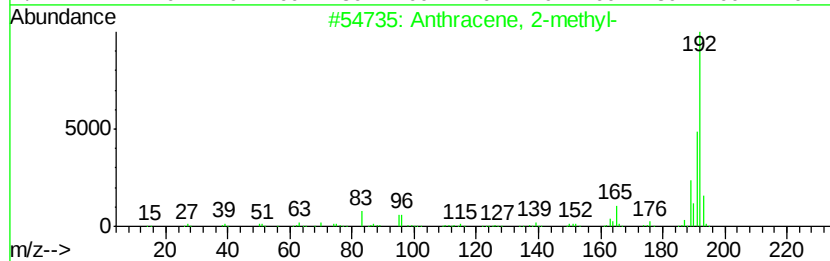
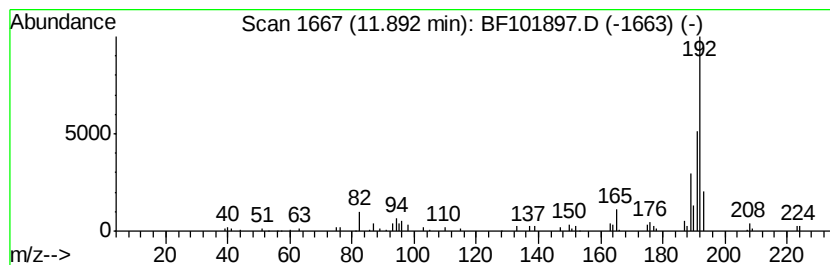
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	3.62 ng	118958	Phenanthrene-d10	11.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

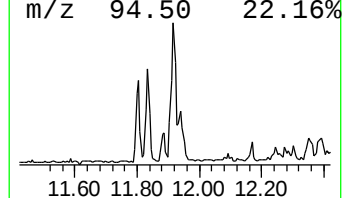
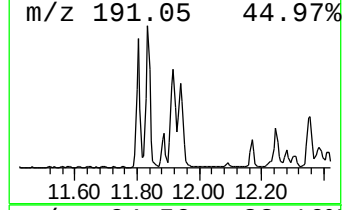
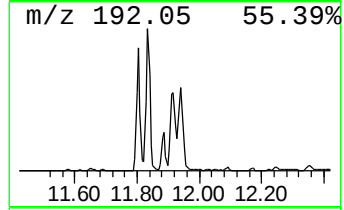
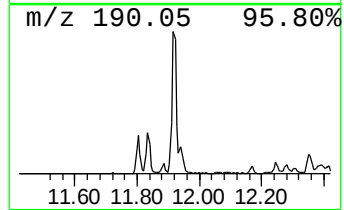
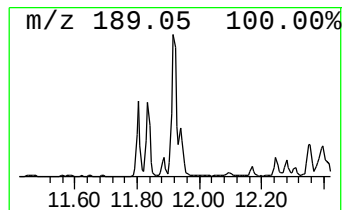
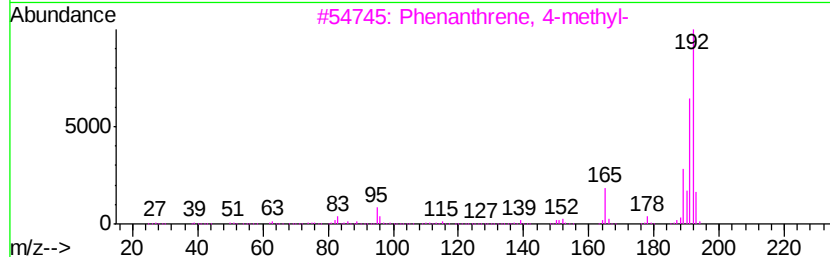
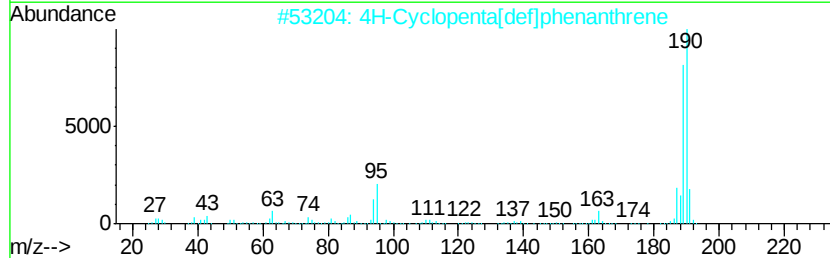
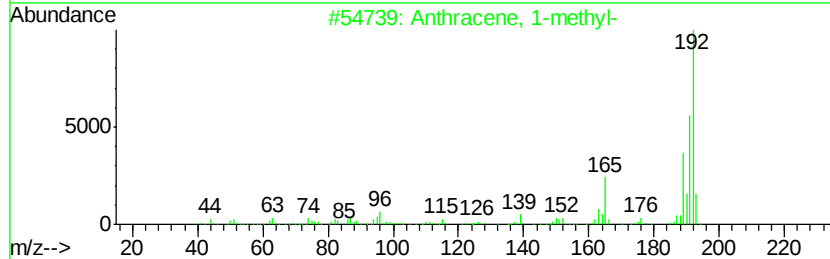
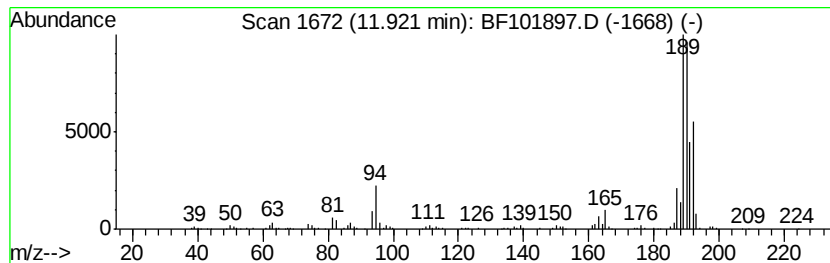
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.92	16.79 ng	551812	Phenanthrene-d10	11.30	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

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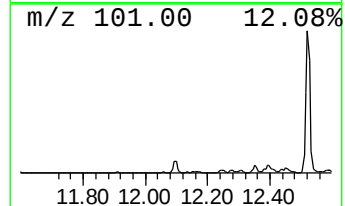
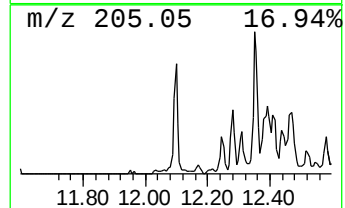
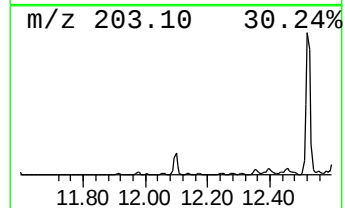
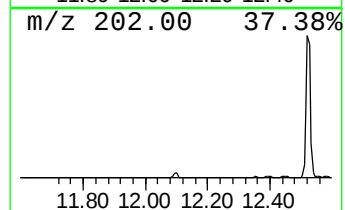
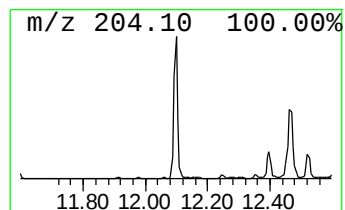
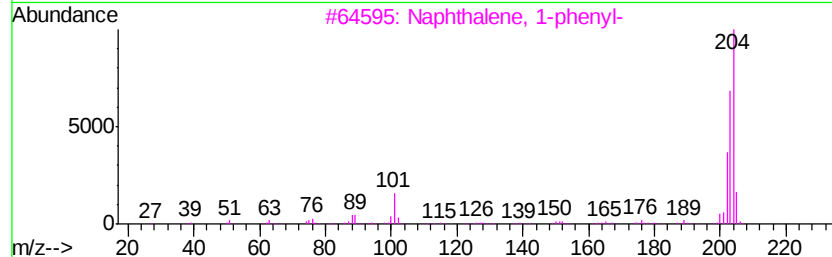
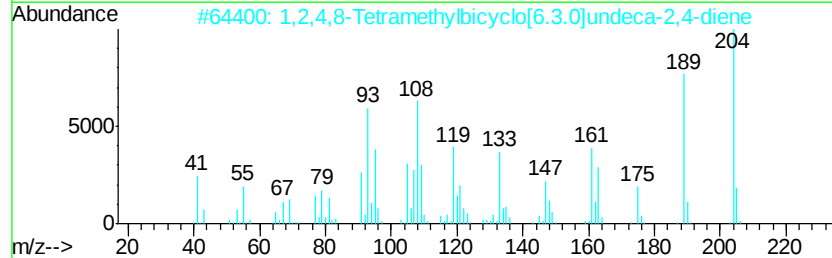
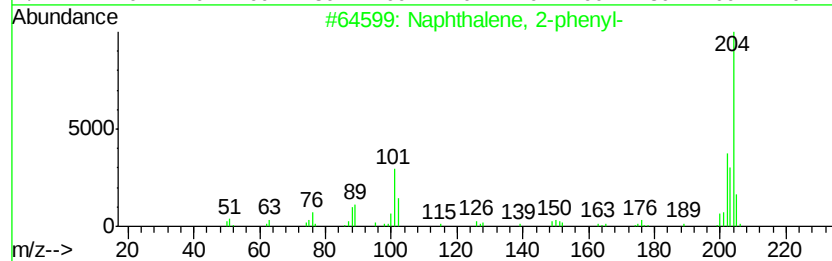
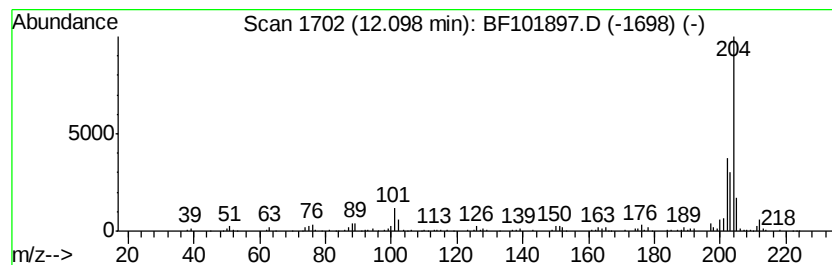
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	8.57 ng	281803	Phenanthrene-d10	11.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	86
3		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene	204	C16H12	006572-60-7	72
5		Pyrazol-5-ol, 3-(3,4-methylenedi-)	204	C10H8N2O3	1000271-76-1	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
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Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

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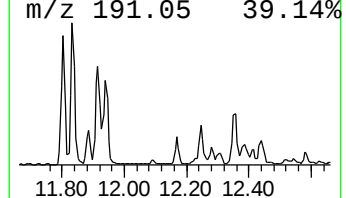
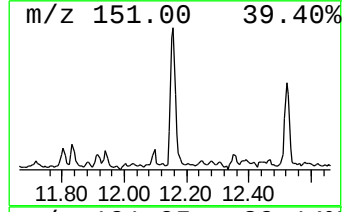
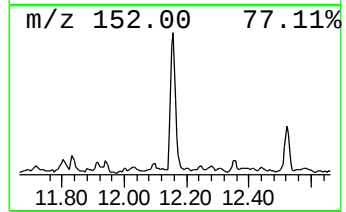
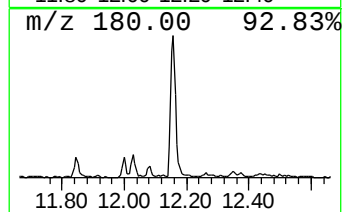
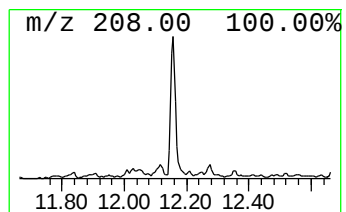
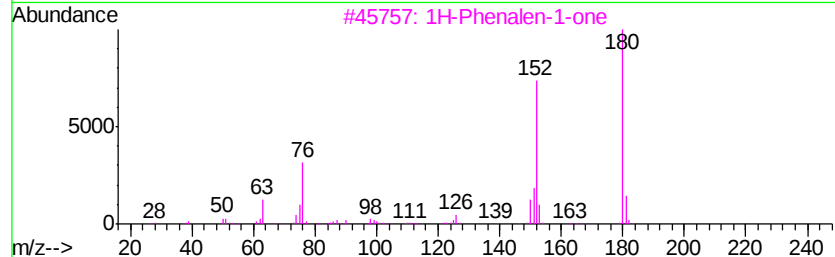
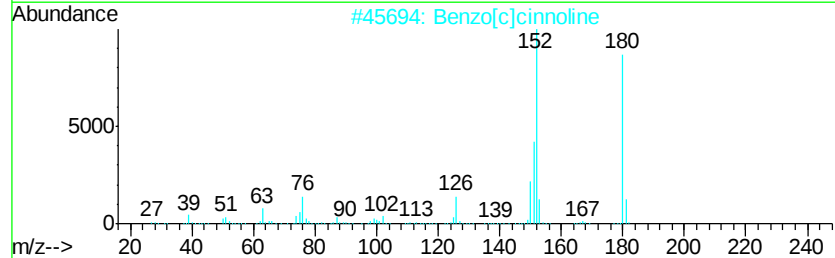
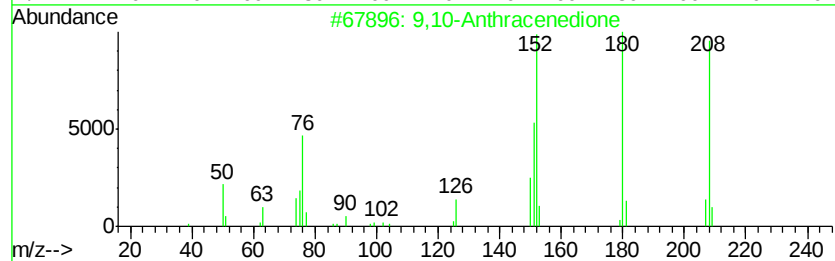
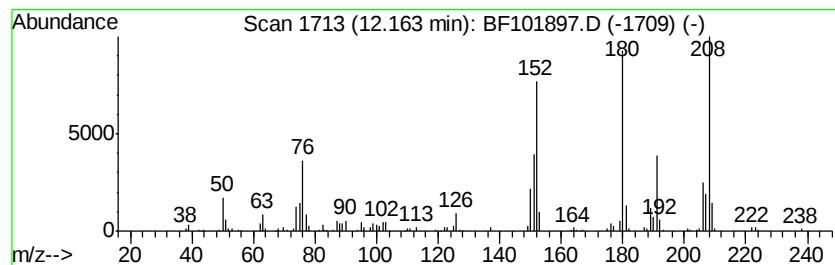
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	9.46 ng	310963	Phenanthrene-d10	11.30

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	86
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4		9H-Fluoren-9-one	180	C13H8O	000486-25-9	58
5		1,4-Anthracenedione	208	C14H8O2	000635-12-1	52



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
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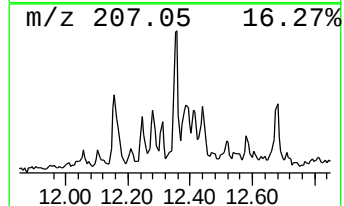
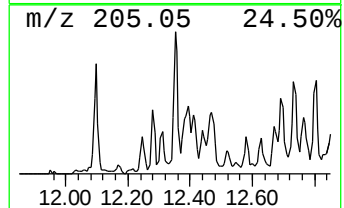
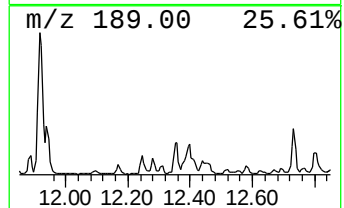
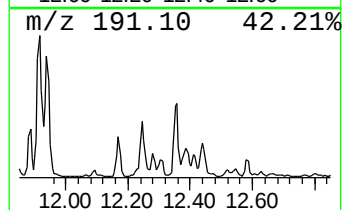
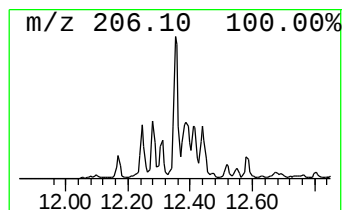
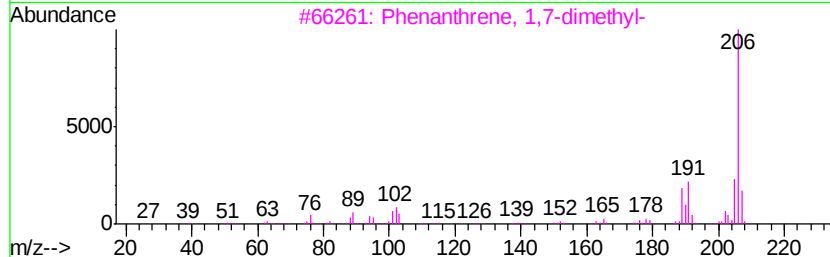
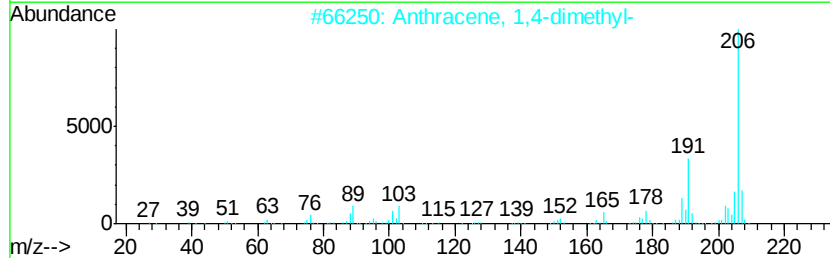
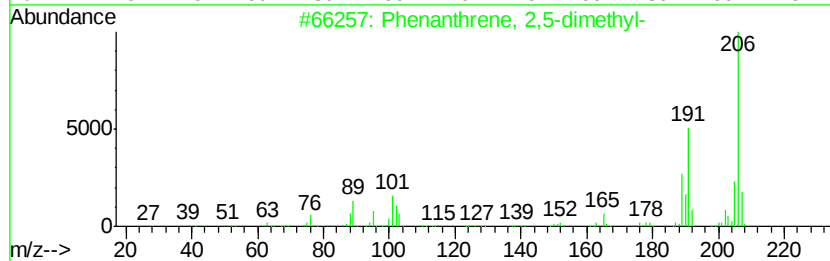
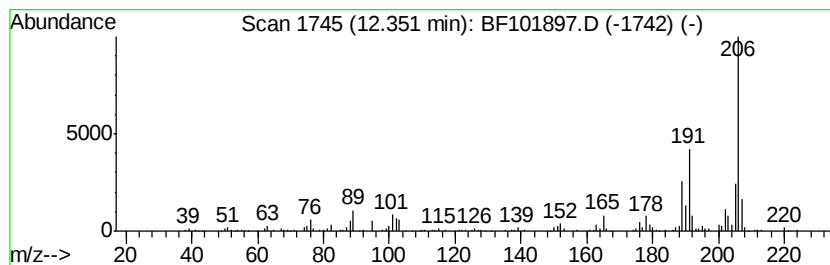
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	10.13 ng	332776	Phenanthrene-d10	11.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	95
3		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4		9,10-Dimethylantracene	206	C16H14	000781-43-1	93
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010418\
Data File : BF101897.D
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Operator : SJ/JU
Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

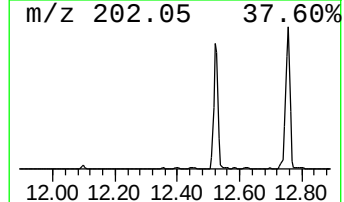
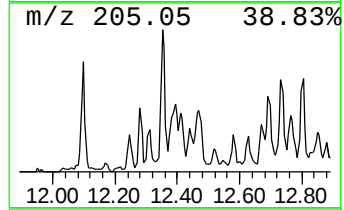
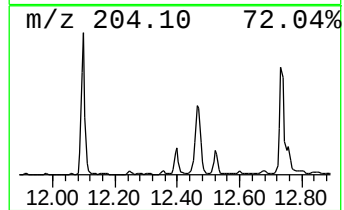
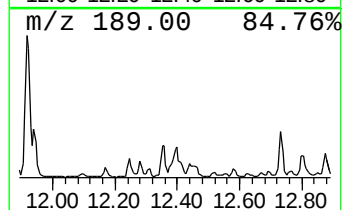
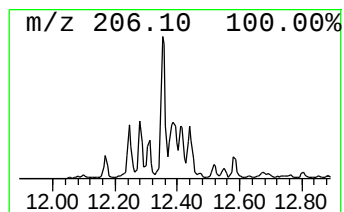
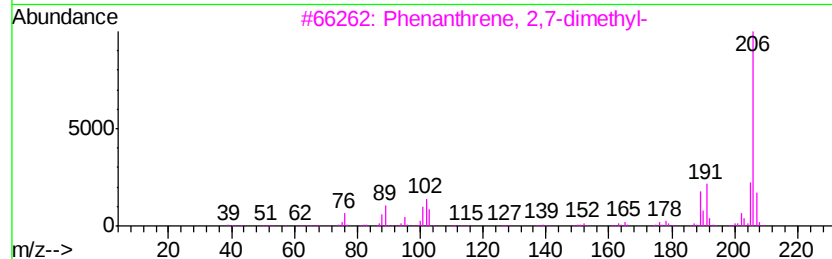
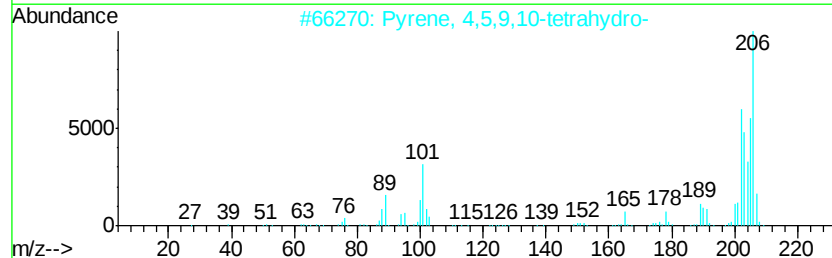
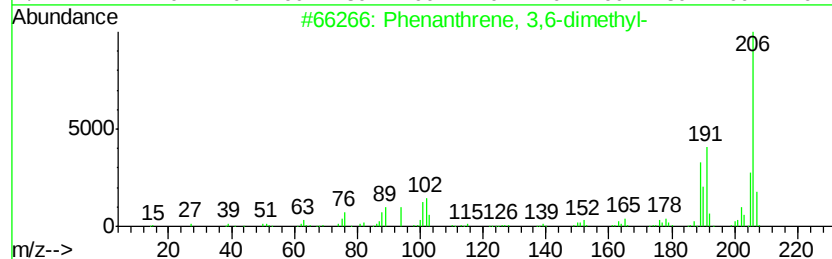
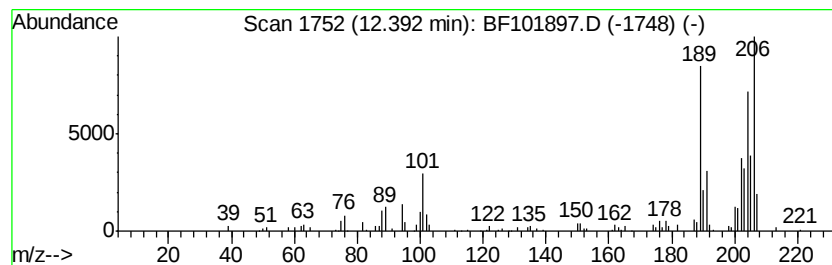
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 unknown12.39 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.39	5.26 ng	172736	Phenanthrene-d10		11.30
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	49
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	46
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38
4	Dibenzo[b,f][1,4]diazocine	206	C14H10N2	000262-92-0	30
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	25



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-3(10)

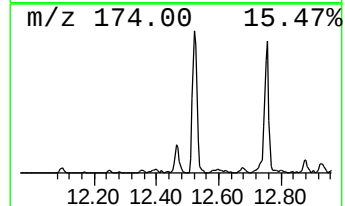
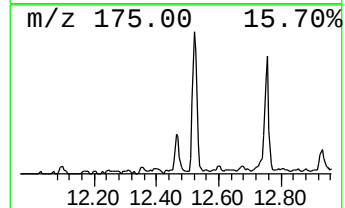
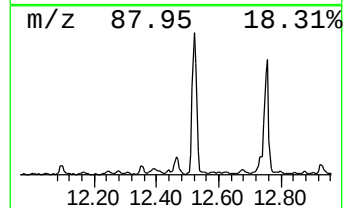
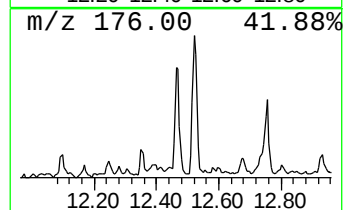
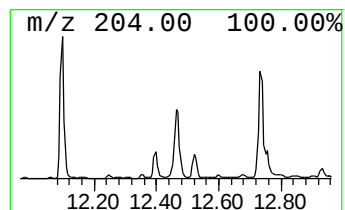
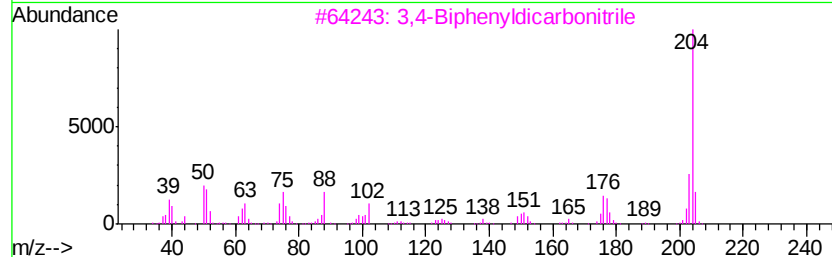
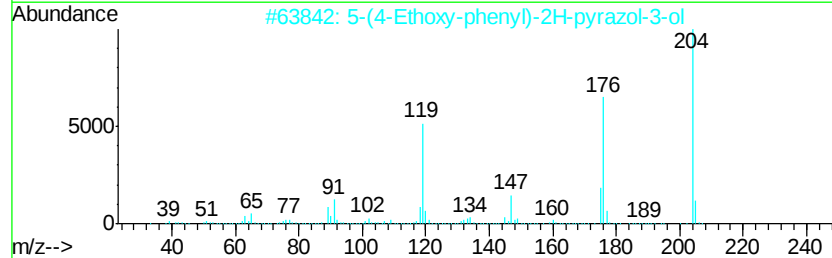
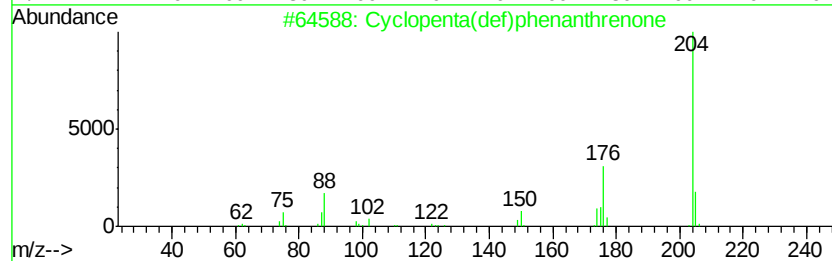
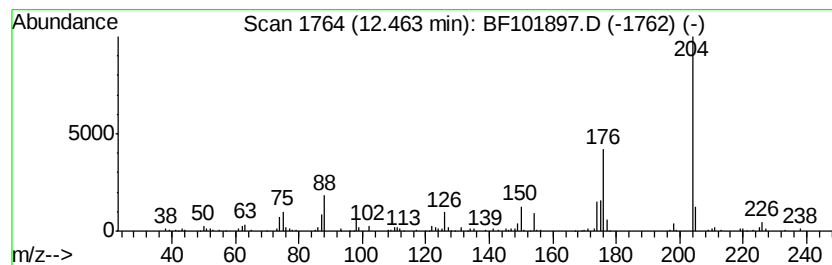
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	5.65 ng	185536	Phenanthrene-d10	11.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	74
2		5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	53
3		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	40
4		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	37
5		1-Ethyl-1,2,3,4-tetrahydro-6,7-m...	219	C12H13NO3	132767-88-5	33



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-3(10)

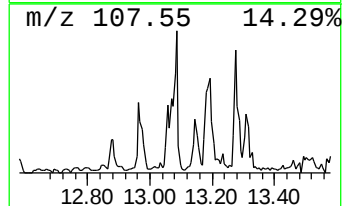
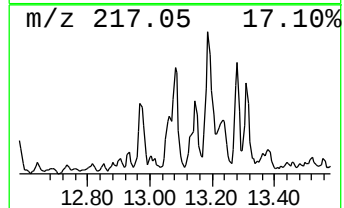
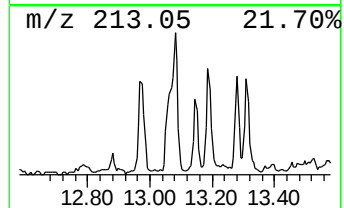
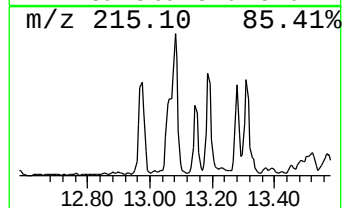
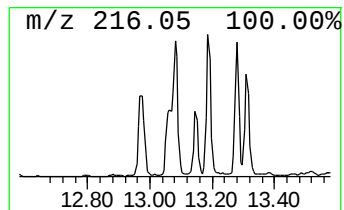
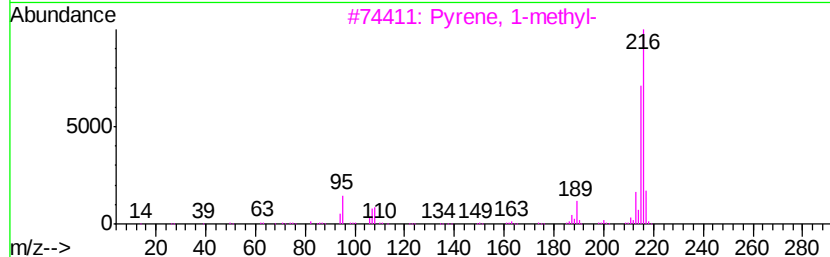
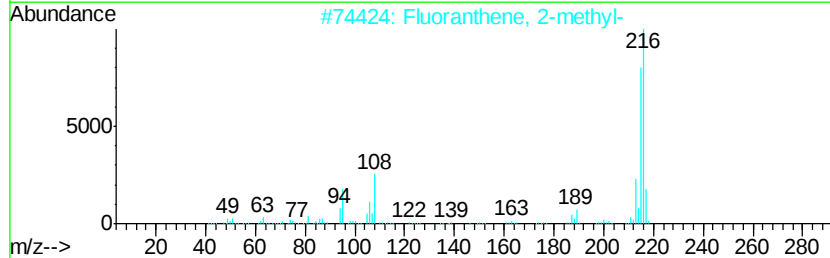
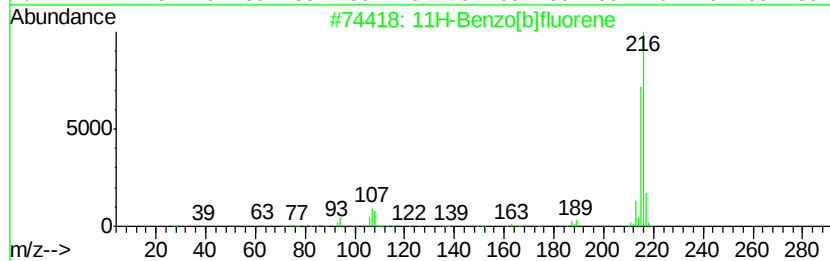
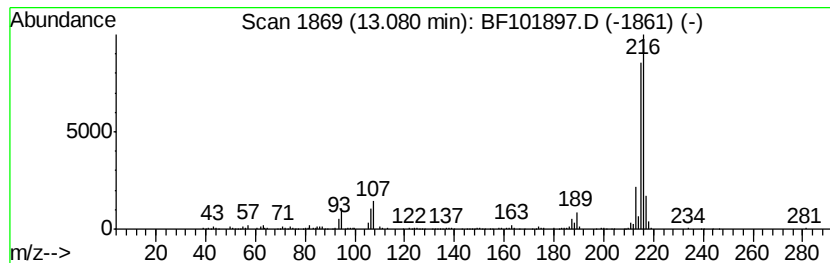
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.08	5.21 ng	589171	Chrysene-d12	13.96

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3		Pvrene, 1-methyl-	216	C17H12	002381-21-7	91
4		Pvrene, 2-methyl-	216	C17H12	003442-78-2	89
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
Sample : J1033-06 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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ClientSampleId :
B-3(10)

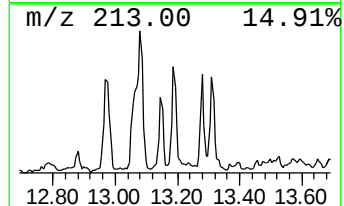
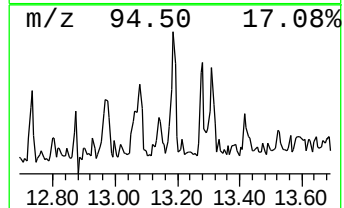
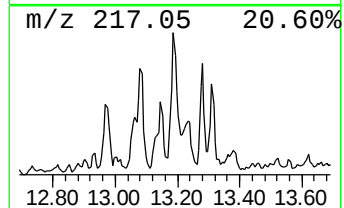
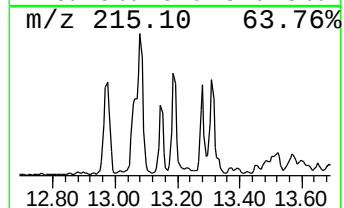
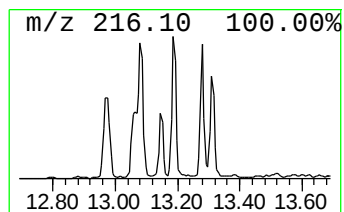
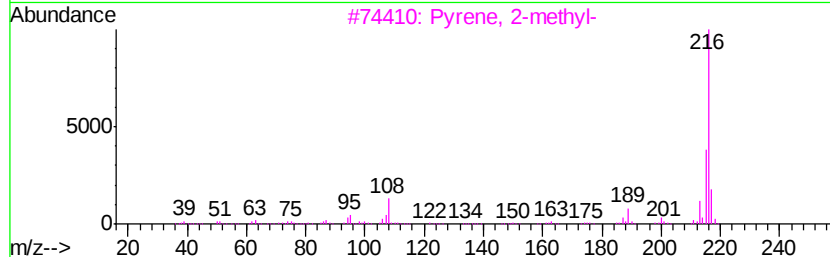
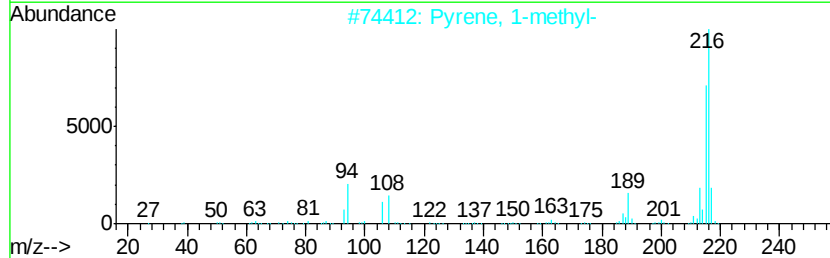
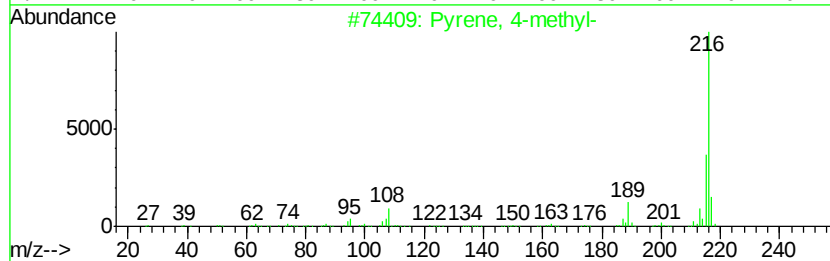
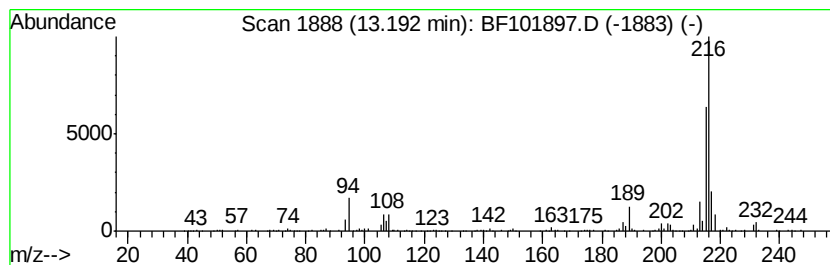
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Pyrene, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	3.92 ng	442996	Chrysene-d12	13.96

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
2		Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3		Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010418\
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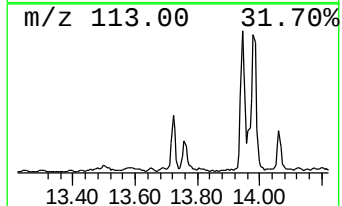
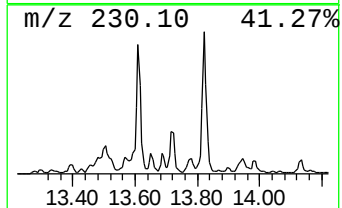
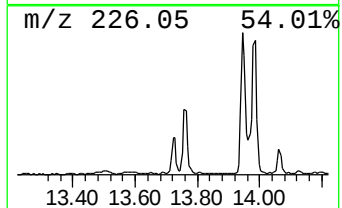
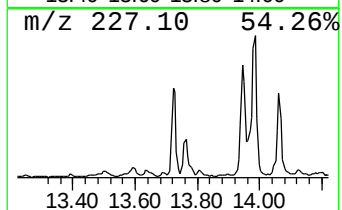
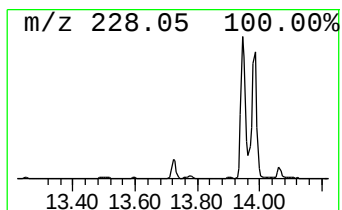
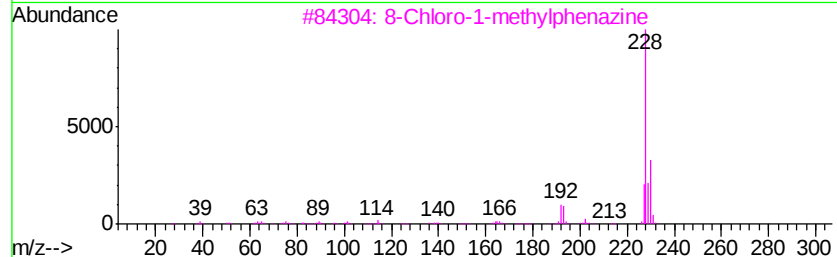
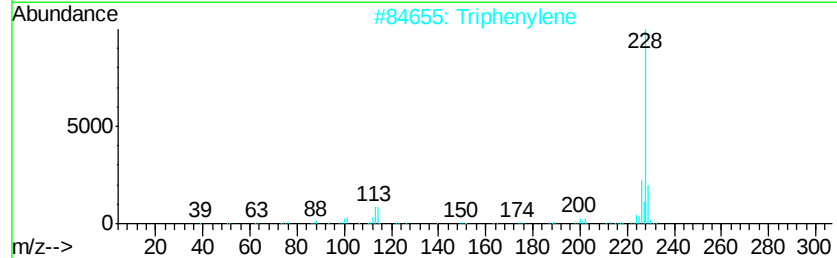
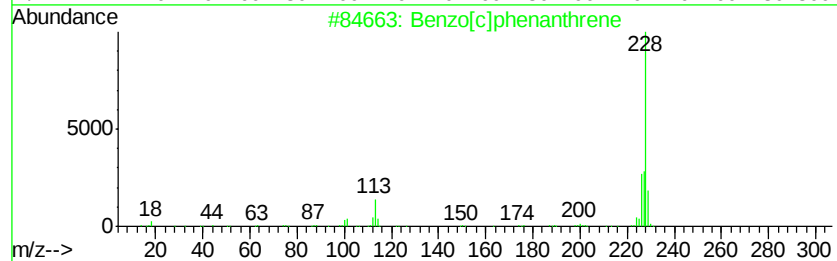
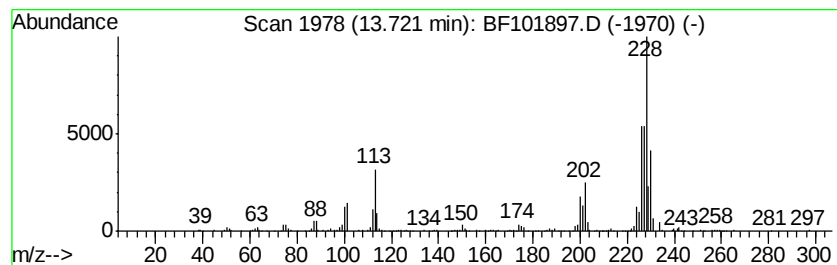
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Benzo[c]phenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.72	5.44 ng	615107	Chrysene-d12	13.96	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
2	Triphenylene	228	C18H12	000217-59-4	50
3	8-Chloro-1-methylphenazine	228	C13H9ClN2	029453-82-5	49
4	Chrysene	228	C18H12	000218-01-9	46
5	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	45



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
Operator : SJ/JU
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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-3(10)

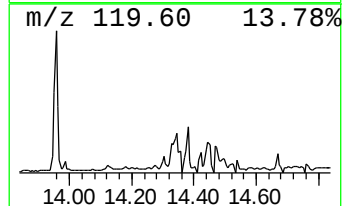
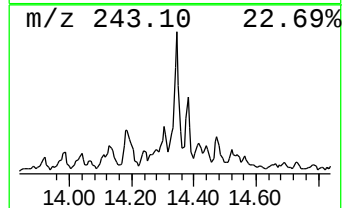
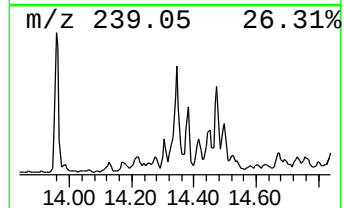
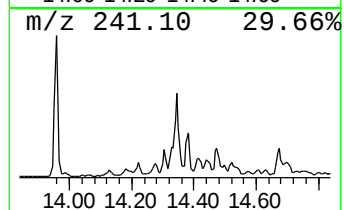
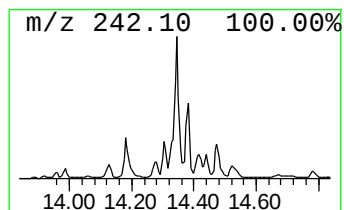
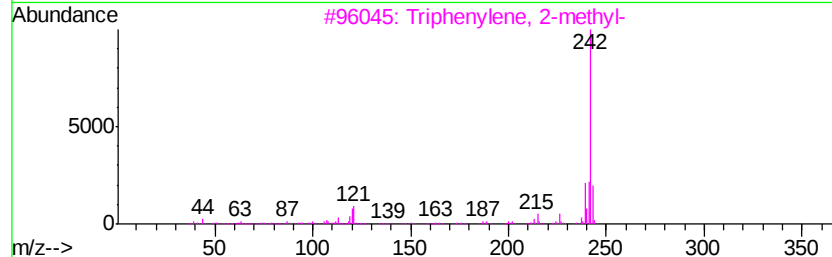
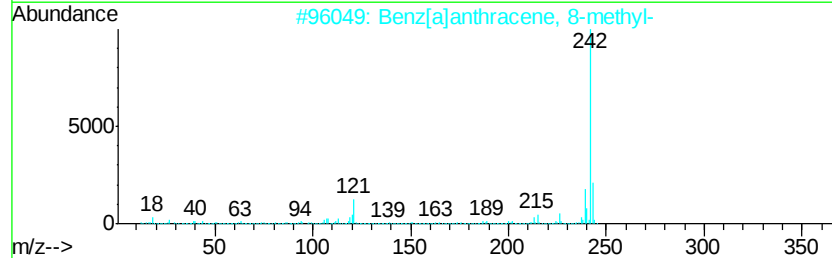
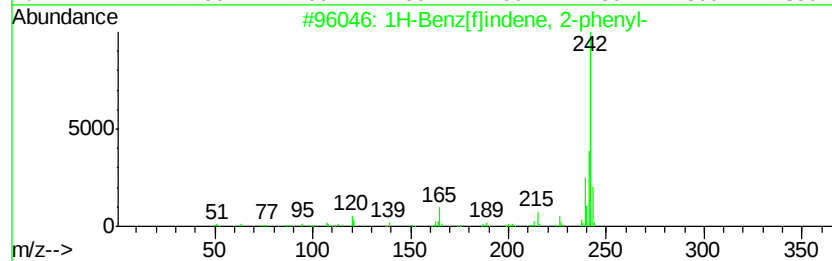
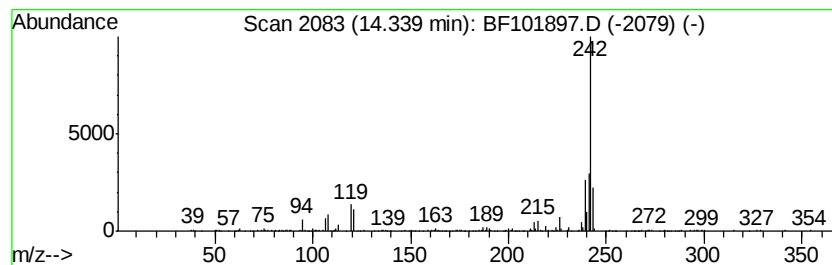
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 1H-Benz[f]indene, 2-phenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.34	3.47 ng	392238	Chrysene-d12	13.96

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	96
2		Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	96
3		Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
4		Chrysene, 3-methyl-	242	C19H14	003351-31-3	95
5		Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010418\
Data File : BF101897.D
Acq On : 4 Jan 2018 18:08
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ALS Vial : 13 Sample Multiplier: 1

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BNA_F
ClientSampleId :
B-3(10)

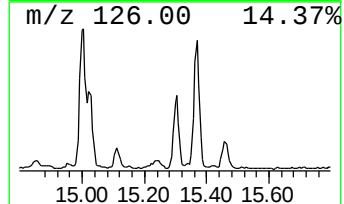
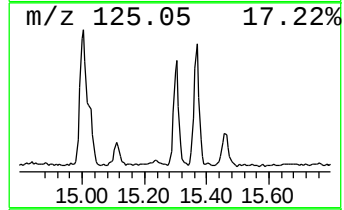
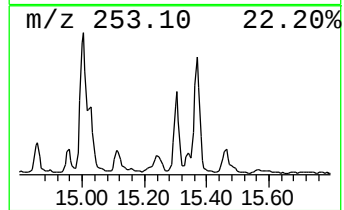
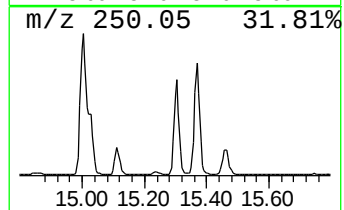
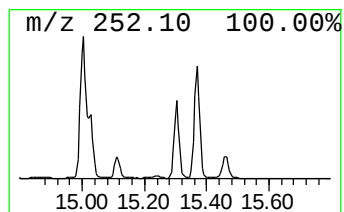
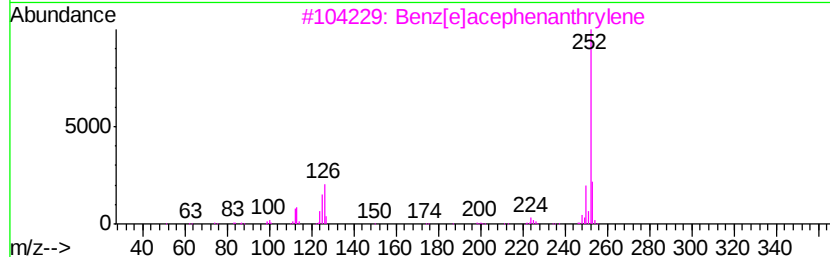
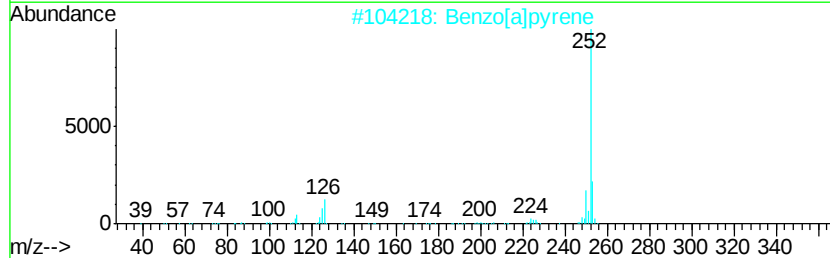
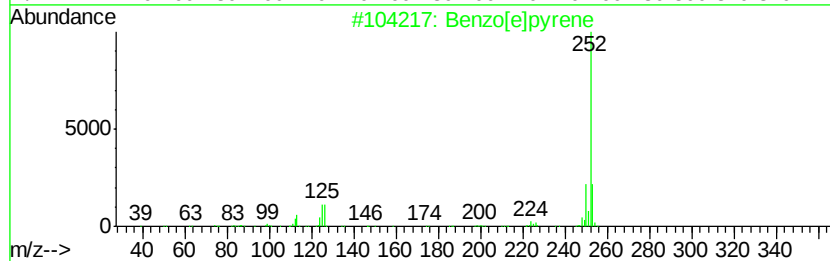
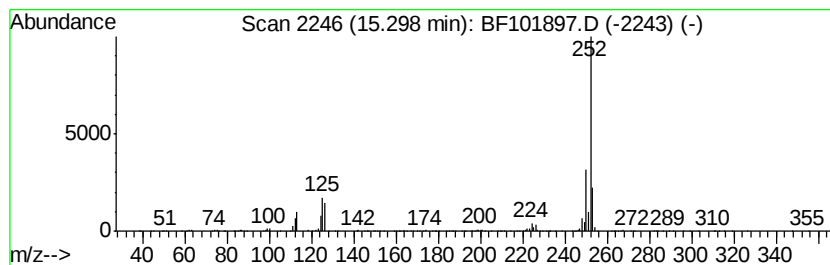
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	18.47 ng	578412	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[a]pyrene	252	C20H12	000050-32-8	96
3		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	95
4		Perylene	252	C20H12	000198-55-0	95
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010418\
 Data File : BF101897.D
 Acq On : 4 Jan 2018 18:08
 Operator : SJ/JU
 Sample : J1033-06 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3(10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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
unknown6.56	6.56	20.0	ng	778548	1	6.77	776837	20.0
9H-Fluoren-9-one	11.13	3.5	ng	114678	4	11.30	657315	20.0
Naphtho[1,2-b]thi...	11.20	4.5	ng	148878	4	11.30	657315	20.0
Phenanthrene, 2-m...	11.80	13.3	ng	435646	4	11.30	657315	20.0
Anthracene, 2-met...	11.89	3.6	ng	118958	4	11.30	657315	20.0
Anthracene, 1-met...	11.92	16.8	ng	551812	4	11.30	657315	20.0
Naphthalene, 2-ph...	12.10	8.6	ng	281803	4	11.30	657315	20.0
9,10-Anthracenedione	12.16	9.5	ng	310963	4	11.30	657315	20.0
Phenanthrene, 2,5...	12.35	10.1	ng	332776	4	11.30	657315	20.0
unknown12.39	12.39	5.3	ng	172736	4	11.30	657315	20.0
Cyclopenta(def)ph...	12.46	5.7	ng	185536	4	11.30	657315	20.0
11H-Benzo[b]fluorene	13.08	5.2	ng	589171	5	13.96	2262120	20.0
Pyrene, 4-methyl-	13.19	3.9	ng	442996	5	13.96	2262120	20.0
Benzo[c]phenanthrene	13.72	5.4	ng	615107	5	13.96	2262120	20.0
1H-Benz[f]indene, ...	14.34	3.5	ng	392238	5	13.96	2262120	20.0
Benzo[e]pyrene	15.30	18.5	ng	578412	6	15.43	626221	20.0