

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
 Data File : BF119742.D
 Acq On : 4 Apr 2020 3:59
 Operator : MA/SJ
 Sample : L2129-41
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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	5.034	497	501	509	rVB	149106	211613	2.15%	0.148%
2	5.428	562	568	571	rBV	6233679	6664299	67.68%	4.654%
3	6.086	676	680	683	rBV	395712	342812	3.48%	0.239%
4	6.439	733	740	743	rBV	5367930	6627748	67.31%	4.628%
5	6.804	798	802	805	rBV	1506364	1165912	11.84%	0.814%
6	6.963	824	829	832	rBV	5828030	5223902	53.05%	3.648%
7	7.369	892	898	901	rBV	4071778	4431216	45.00%	3.094%
8	8.086	1015	1020	1023	rBV	1806678	1537415	15.61%	1.074%
9	9.169	1198	1204	1207	rBV	7451460	7205856	73.18%	5.032%
10	9.557	1267	1270	1274	rVV	760428	674810	6.85%	0.471%
11	9.704	1292	1295	1299	rVB	397928	301994	3.07%	0.211%
12	9.845	1312	1319	1322	rBV	1940712	1659811	16.86%	1.159%
13	9.874	1322	1324	1328	rVB	376344	311043	3.16%	0.217%
14	10.045	1350	1353	1357	rBV	303652	260958	2.65%	0.182%
15	10.392	1408	1412	1417	rVB	358768	341126	3.46%	0.238%
16	10.551	1436	1439	1445	rVB	206316	205944	2.09%	0.144%
17	10.633	1448	1453	1457	rVV	4114881	4393504	44.62%	3.068%
18	10.757	1469	1474	1481	rVB4	195688	208473	2.12%	0.146%
19	10.939	1499	1505	1508	rBV4	148999	247217	2.51%	0.173%
20	11.069	1522	1527	1529	rBV2	168333	205559	2.09%	0.144%
21	11.092	1529	1531	1535	rVV2	179786	188838	1.92%	0.132%
22	11.133	1535	1538	1542	rVV	400221	376450	3.82%	0.263%
23	11.180	1542	1546	1552	rVV5	171231	326760	3.32%	0.228%
24	11.227	1552	1554	1560	rVB	401362	362347	3.68%	0.253%
25	11.333	1566	1572	1574	rBV	1548186	1705379	17.32%	1.191%
26	11.363	1574	1577	1580	rVV	6523278	6013421	61.07%	4.199%
27	11.410	1580	1585	1587	rVV	968306	862331	8.76%	0.602%
28	11.439	1587	1590	1593	rVV2	170431	156872	1.59%	0.110%
29	11.563	1605	1611	1613	rBV	550782	569159	5.78%	0.397%
30	11.627	1619	1622	1625	rVV	379369	296704	3.01%	0.207%
31	11.663	1625	1628	1634	rVB3	239200	219424	2.23%	0.153%
32	11.833	1652	1657	1660	rBV	1280302	1254135	12.74%	0.876%
33	11.863	1660	1662	1667	rVB	2364806	2013285	20.45%	1.406%
34	11.910	1667	1670	1673	rBV	364874	301851	3.07%	0.211%

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 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.945	1673	1676	1679	rBV2	1560398	1738069	17.65%	1.214%
36	11.968	1679	1680	1684	rVB	1020765	659266	6.70%	0.460%
37	12.133	1705	1708	1710	rBV	1168820	993051	10.08%	0.693%
38	12.157	1710	1712	1715	rVB	1300018	939556	9.54%	0.656%
39	12.204	1718	1720	1725	rBV	172037	152217	1.55%	0.106%
40	12.280	1727	1733	1736	rBV	445953	498207	5.06%	0.348%
41	12.310	1736	1738	1740	rBV	282743	195942	1.99%	0.137%
42	12.333	1740	1742	1745	rVB	252421	217085	2.20%	0.152%
43	12.386	1747	1751	1754	rBV2	731002	847939	8.61%	0.592%
44	12.421	1754	1757	1760	rBV2	324368	386305	3.92%	0.270%
45	12.474	1763	1766	1771	rVB	835563	867596	8.81%	0.606%
46	12.563	1774	1781	1784	rBV	7195490	8699630	88.35%	6.075%
47	12.598	1784	1787	1788	rBV2	174144	174690	1.77%	0.122%
48	12.651	1793	1796	1798	rBV2	351626	325887	3.31%	0.228%
49	12.686	1798	1802	1809	rVB4	330571	575774	5.85%	0.402%
50	12.792	1813	1820	1823	rBV2	7575565	9847101	100.00%	6.876%
51	12.827	1823	1826	1831	rVB2	435526	569215	5.78%	0.397%
52	12.898	1834	1838	1839	rBV	536442	510309	5.18%	0.356%
53	12.927	1839	1843	1849	rVB	5548434	5651376	57.39%	3.946%
54	12.998	1849	1855	1858	rBV2	742774	1198111	12.17%	0.837%
55	13.080	1866	1869	1871	rBV2	489970	591163	6.00%	0.413%
56	13.104	1871	1873	1876	rVB	927727	850476	8.64%	0.594%
57	13.174	1876	1885	1887	rBV2	506718	837931	8.51%	0.585%
58	13.210	1887	1891	1894	rBV2	1157430	1171259	11.89%	0.818%
59	13.268	1898	1901	1904	rBV2	171152	167236	1.70%	0.117%
60	13.304	1904	1907	1909	rBV	665526	586729	5.96%	0.410%
61	13.333	1909	1912	1915	rBV	673308	617581	6.27%	0.431%
62	13.404	1922	1924	1926	rBV2	195218	203790	2.07%	0.142%
63	13.610	1956	1959	1964	rVB	986837	940813	9.55%	0.657%
64	13.721	1974	1978	1981	rVV2	973484	1395769	14.17%	0.975%
65	13.757	1981	1984	1985	rVV	1152726	1224439	12.43%	0.855%
66	13.774	1985	1987	1992	rVV2	1040388	1431491	14.54%	1.000%
67	13.821	1992	1995	2002	rVB	1695290	1746062	17.73%	1.219%
68	13.974	2014	2021	2024	rVV2	3861965	6314183	64.12%	4.409%
69	14.009	2024	2027	2032	rVV	4407244	4310010	43.77%	3.010%
70	14.086	2037	2040	2042	rVB	327099	267137	2.71%	0.187%
71	14.145	2047	2050	2051	rVV2	292166	285347	2.90%	0.199%

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72	14.198	2055	2059	2062	rVV2	339054	468443	4.76%	0.327%
73	14.233	2062	2065	2067	rVB	255267	232586	2.36%	0.162%
74	14.327	2079	2081	2083	rBV2	182760	170859	1.74%	0.119%
75	14.362	2083	2087	2090	rVV	839045	836734	8.50%	0.584%
76	14.398	2090	2093	2096	rVB2	705701	659897	6.70%	0.461%
77	14.451	2097	2102	2106	rBV4	600385	883717	8.97%	0.617%
78	14.486	2106	2108	2110	rVV	421170	334855	3.40%	0.234%
79	14.509	2110	2112	2115	rVB	370890	303665	3.08%	0.212%
80	14.557	2118	2120	2123	rVB	240043	190819	1.94%	0.133%
81	14.662	2135	2138	2141	rBV3	281280	299733	3.04%	0.209%
82	14.751	2150	2153	2155	rBV2	245431	265177	2.69%	0.185%
83	14.851	2164	2170	2172	rBV2	446799	817955	8.31%	0.571%
84	15.021	2192	2199	2201	rBV	3343187	5292505	53.75%	3.696%
85	15.086	2208	2210	2212	rBV	200240	160183	1.63%	0.112%
86	15.115	2212	2215	2219	rVB	638742	600441	6.10%	0.419%
87	15.315	2243	2249	2254	rVV	2214157	3043054	30.90%	2.125%
88	15.380	2254	2260	2264	rVB	2887951	3937027	39.98%	2.749%
89	15.433	2265	2269	2272	rBV	864407	1185986	12.04%	0.828%
90	15.468	2272	2275	2281	rVB2	953008	1257967	12.77%	0.878%
91	15.903	2345	2349	2353	rBV3	174263	243829	2.48%	0.170%
92	15.951	2354	2357	2360	rVV4	144491	205015	2.08%	0.143%
93	15.980	2360	2362	2368	rVB3	124766	182783	1.86%	0.128%
94	16.545	2455	2458	2469	rVB10	213359	523637	5.32%	0.366%
95	16.692	2478	2483	2486	rBV3	223435	459472	4.67%	0.321%
96	16.886	2509	2516	2524	rVB2	1280917	2545688	25.85%	1.778%
97	17.050	2539	2544	2548	rBV	228732	439455	4.46%	0.307%
98	17.109	2549	2554	2558	rVV2	219741	395412	4.02%	0.276%
99	17.321	2582	2590	2598	rVB	964165	2016123	20.47%	1.408%
100	17.539	2622	2627	2633	rBV	203066	391205	3.97%	0.273%

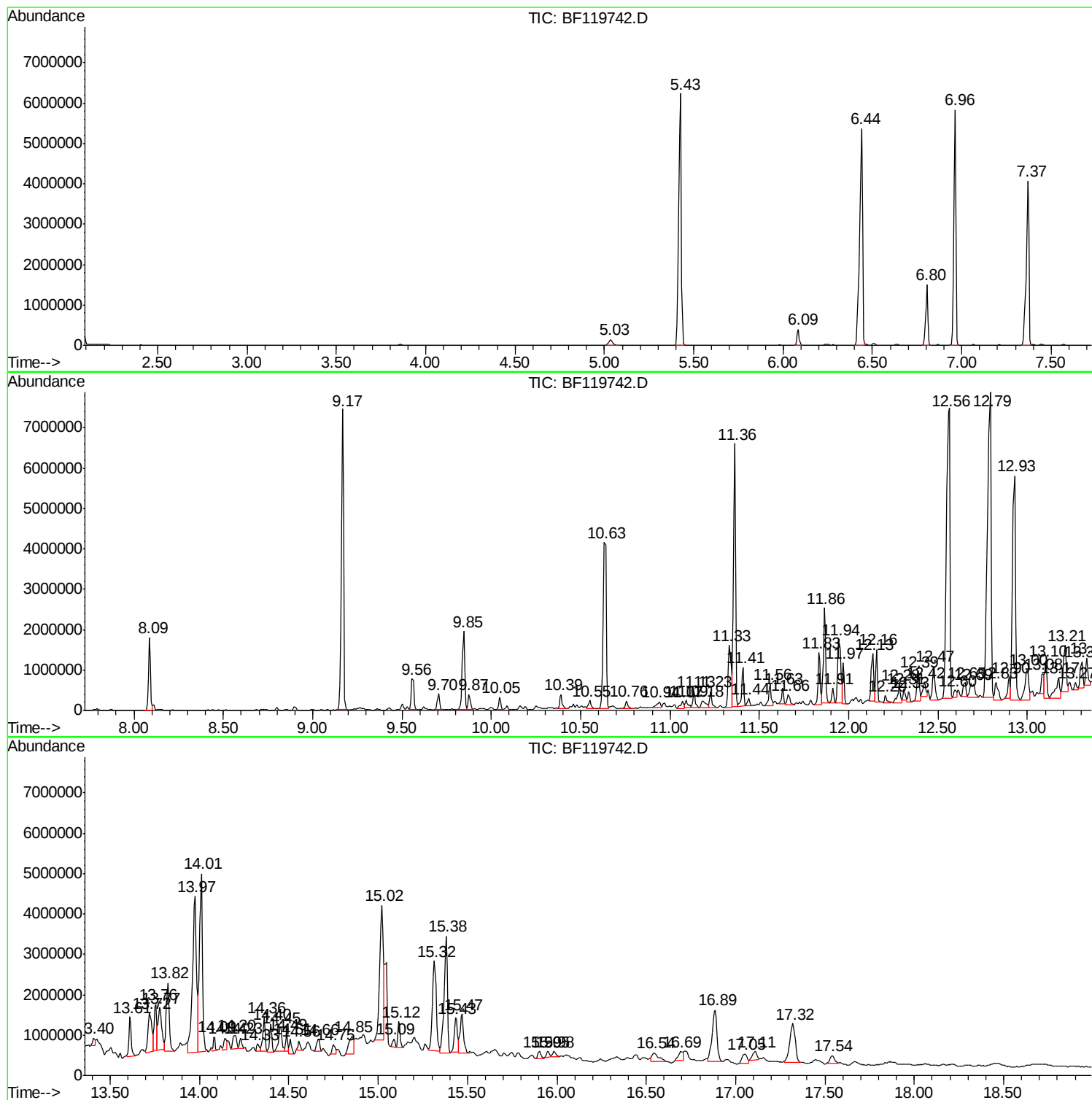
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Instrument :
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ClientSampled :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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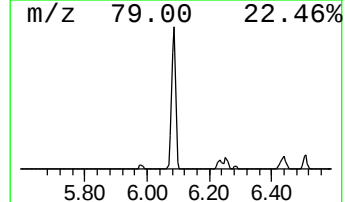
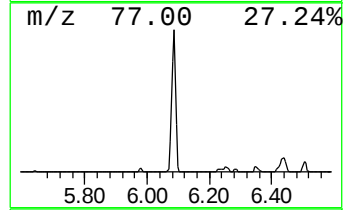
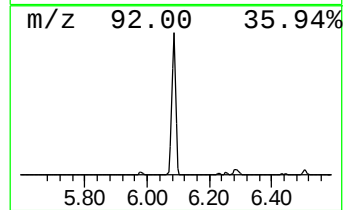
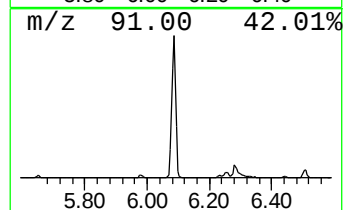
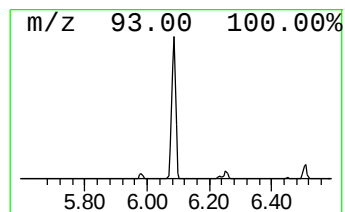
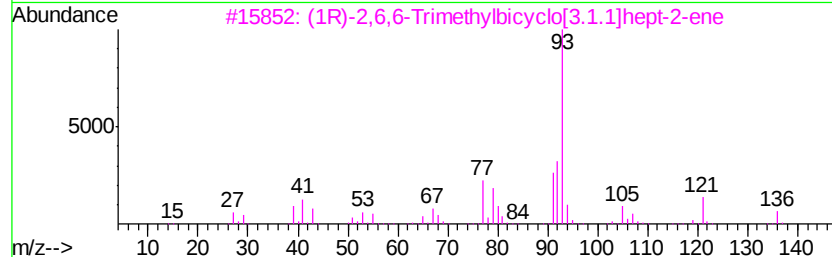
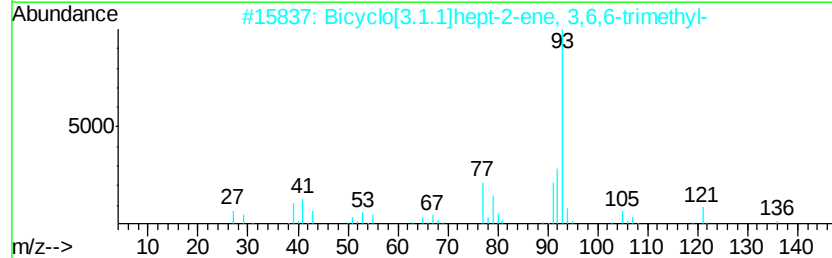
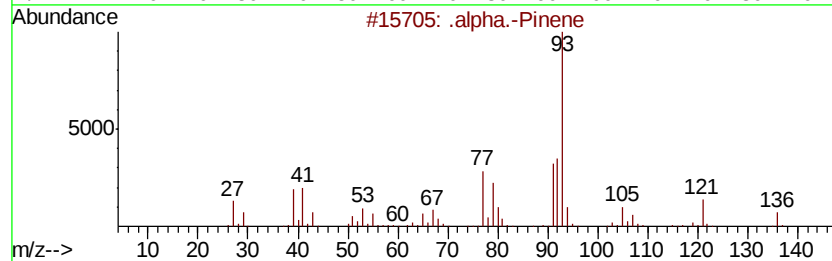
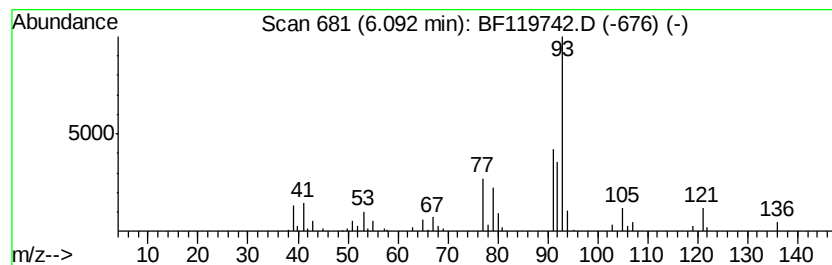
Instrument :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 .alpha.-Pinene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
6.09	5.88 ng	342812	1,4-Dichlorobenzene-d4	6.80	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	95
2	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	94
3	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	136	C10H16	007785-70-8	91
4	(+)-3-Carene	136	C10H16	000498-15-7	91
5	3-Carene	136	C10H16	013466-78-9	90



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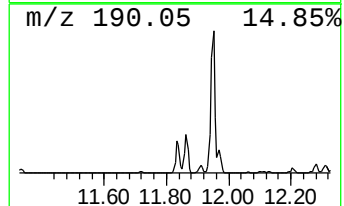
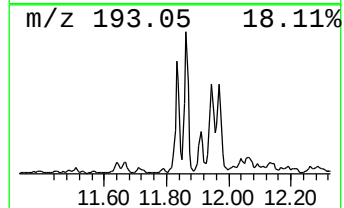
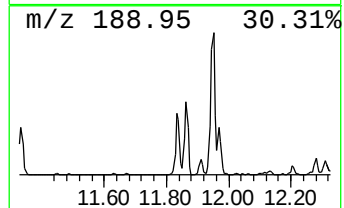
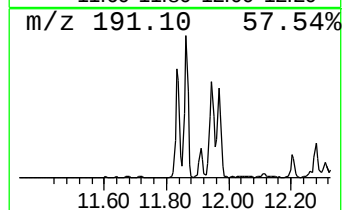
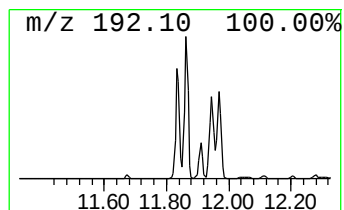
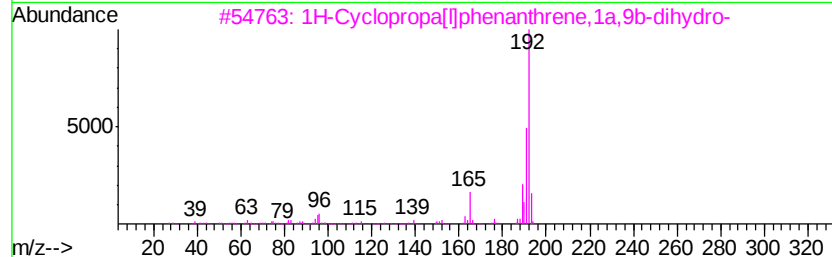
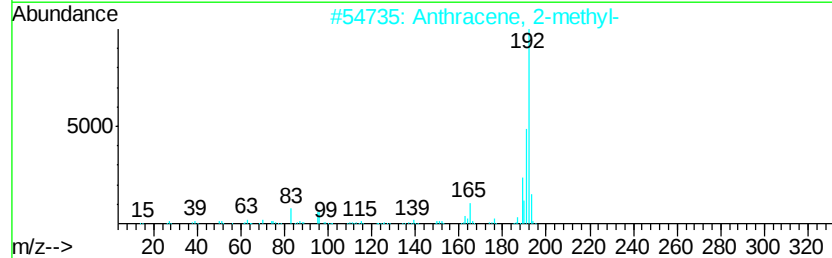
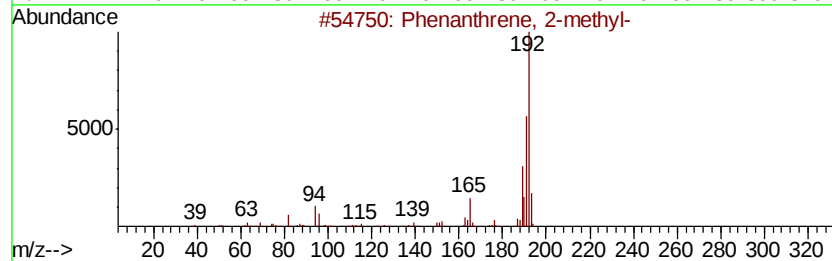
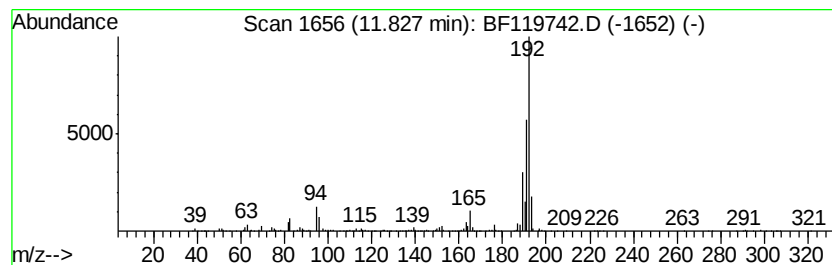
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.83	14.71 ng	1254140	Phenanthrene-d10	11.33	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93



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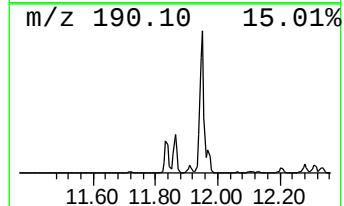
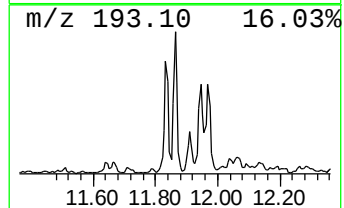
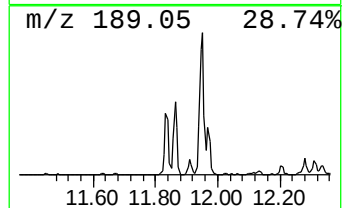
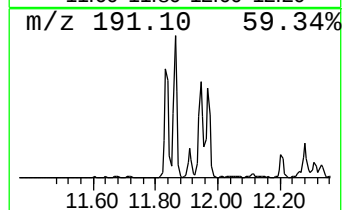
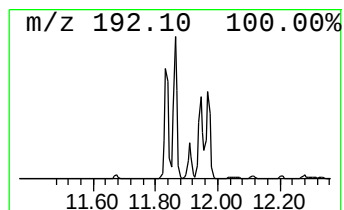
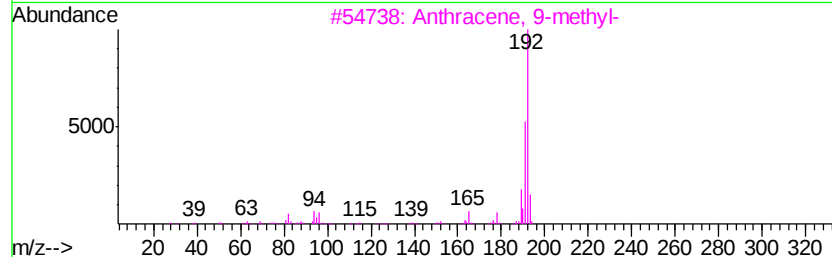
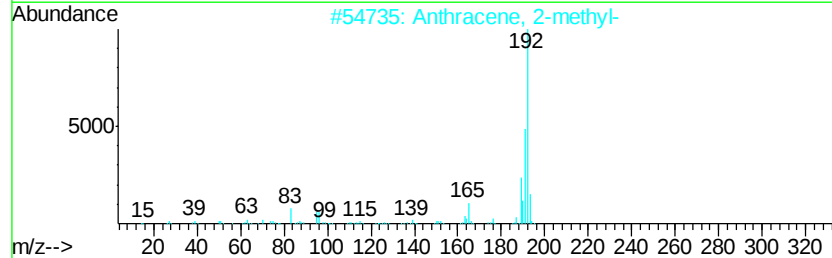
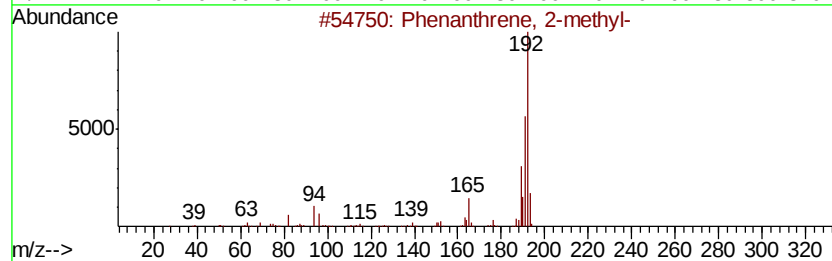
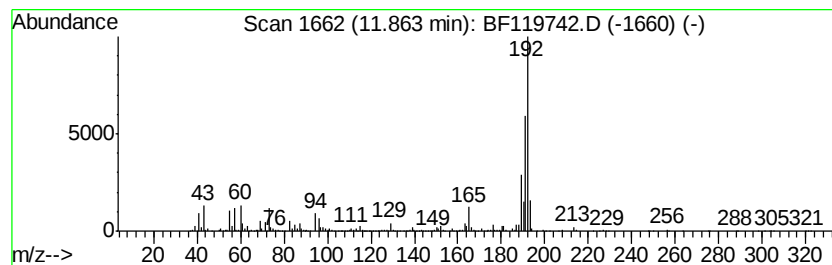
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TIC Integration Parameters: LSCINT.P

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.86	23.61 ng	2013290	Phenanthrene-d10		11.33	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
Data File : BF119742.D
Acq On : 4 Apr 2020 3:59
Operator : MA/SJ
Sample : L2129-41
Misc :
ALS Vial : 31 Sample Multiplier: 1

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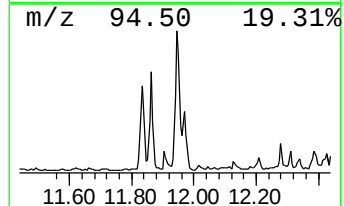
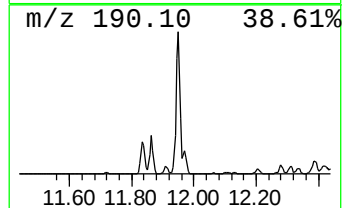
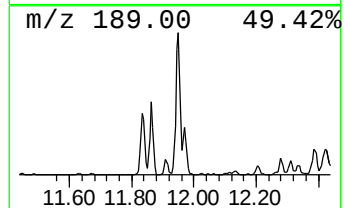
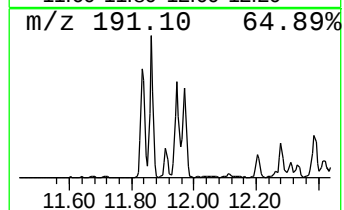
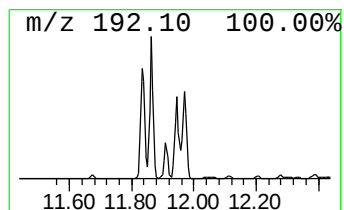
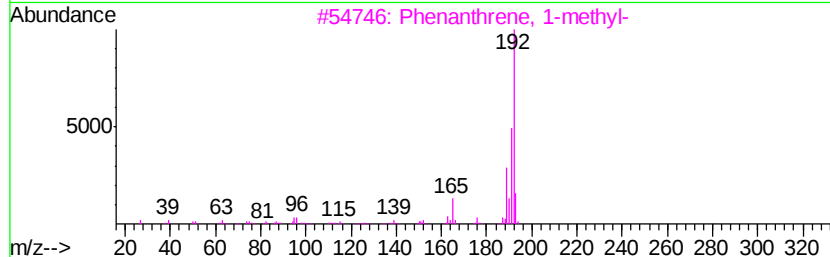
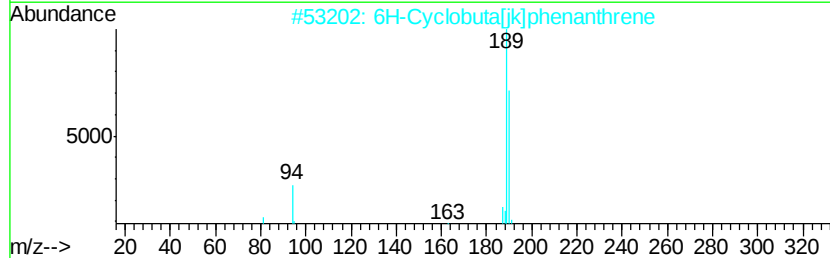
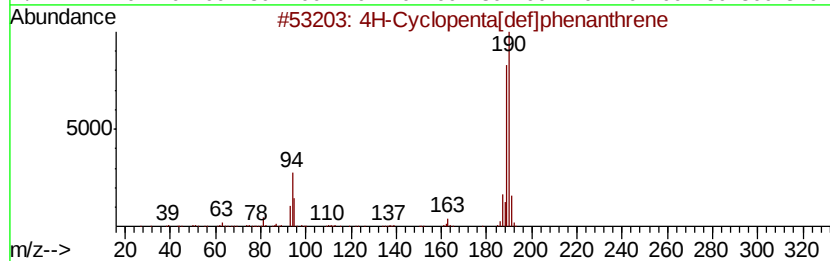
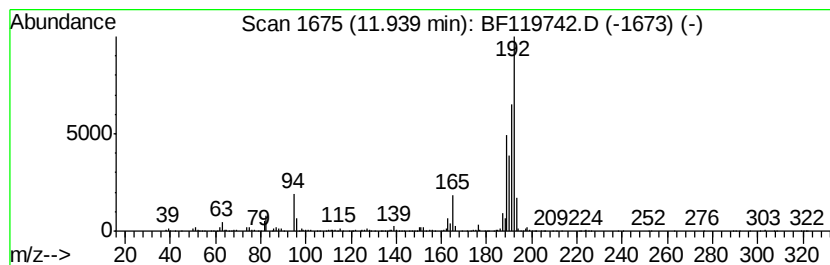
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	20.38 ng	1738070	Phenanthrene-d10	11.33

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	49
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
5		Anthracene, 1-methyl-	192	C15H12	000610-48-0	42



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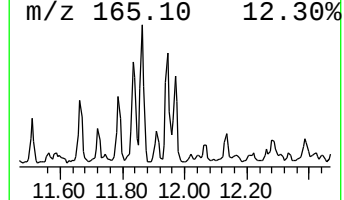
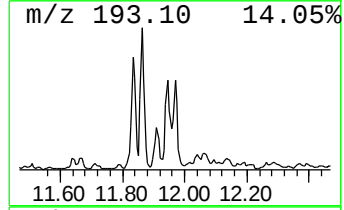
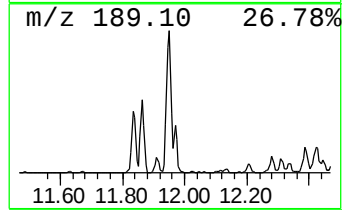
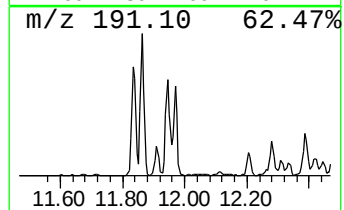
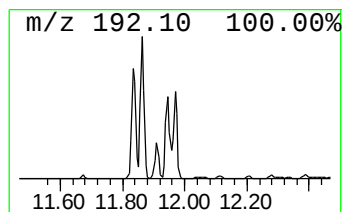
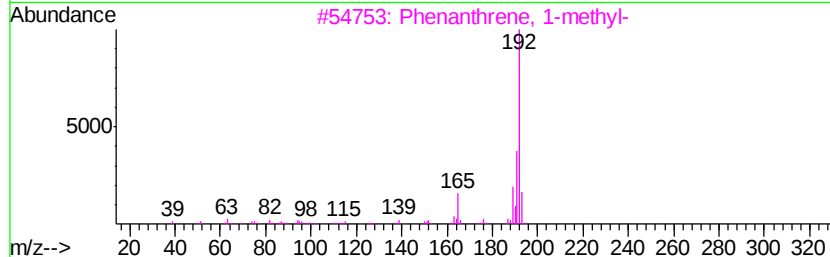
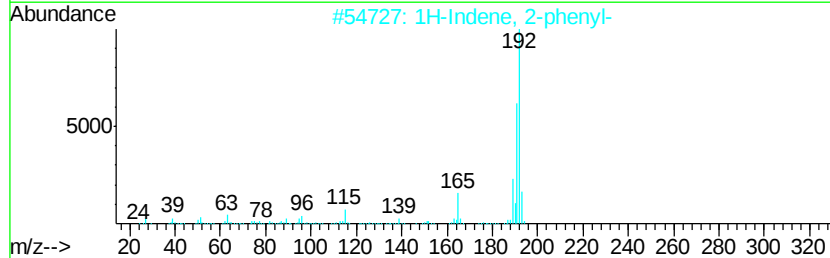
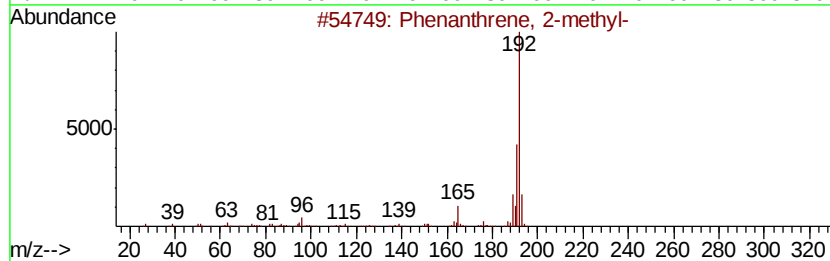
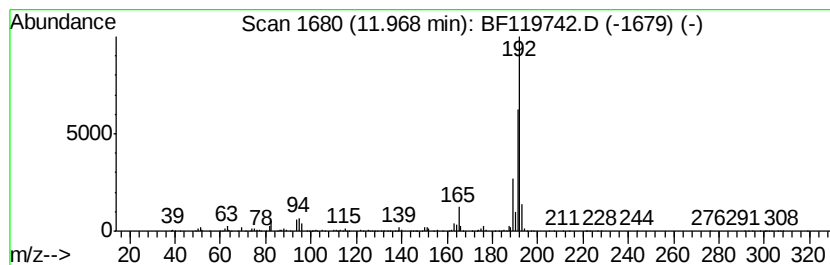
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 1H-Indene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	7.73 ng	659266	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
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ClientSampleId :
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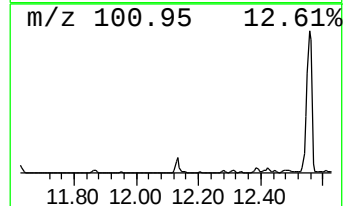
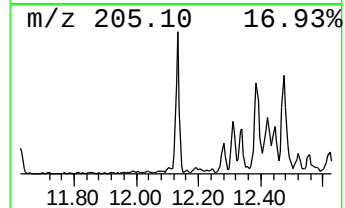
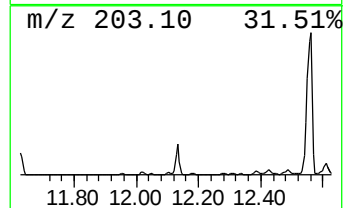
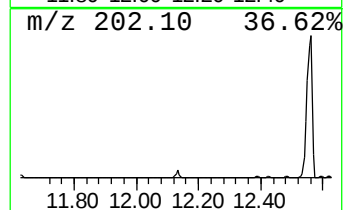
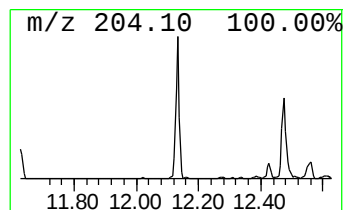
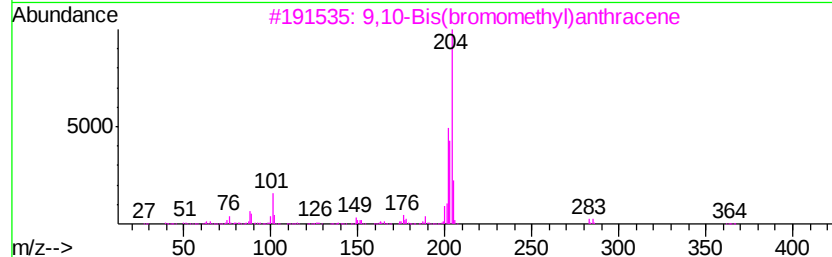
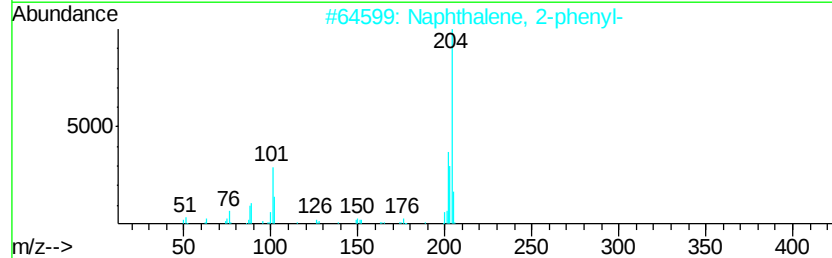
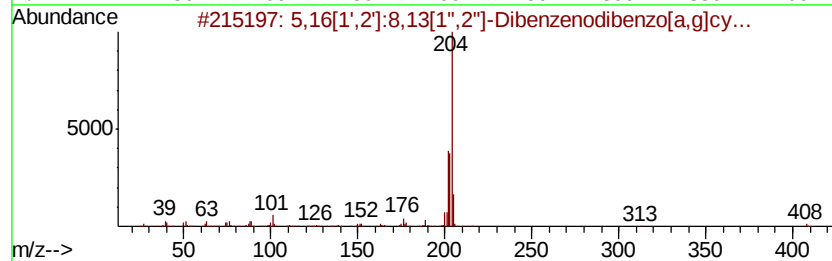
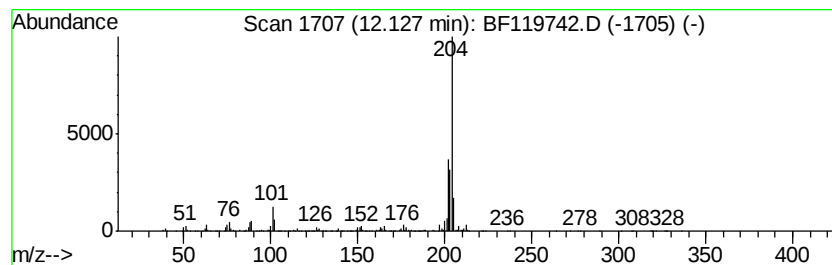
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	11.65 ng	993051	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
4		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49
5		Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	47



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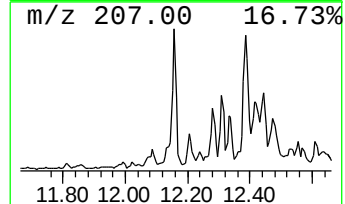
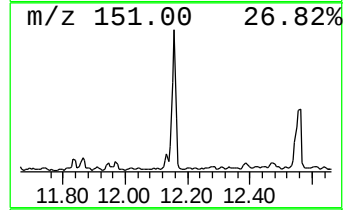
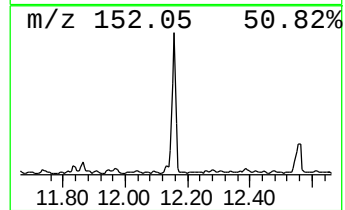
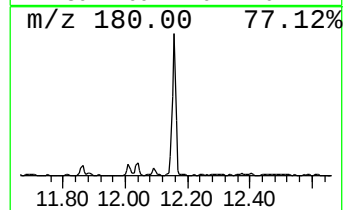
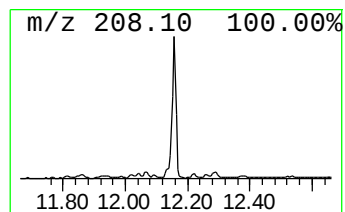
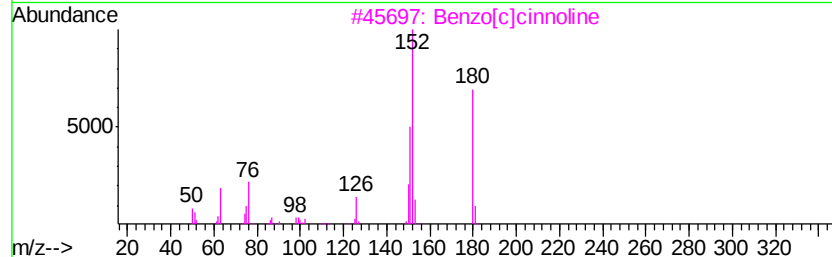
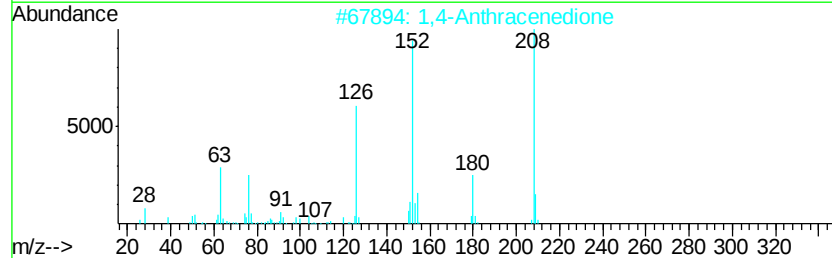
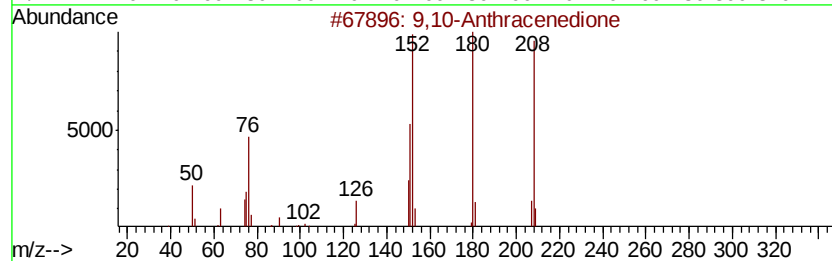
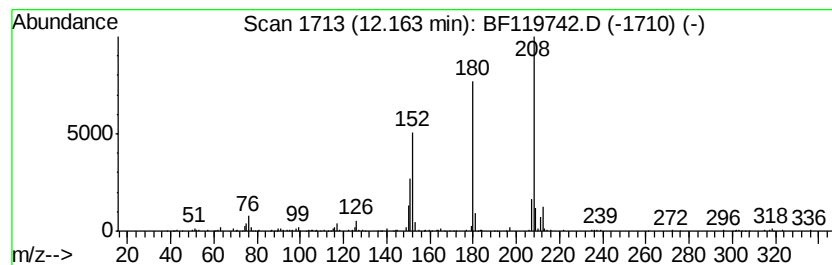
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	11.02 ng	939556	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	1,4-Anthracenedione	208	C14H8O2	000635-12-1	64
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	52



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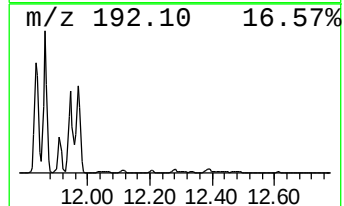
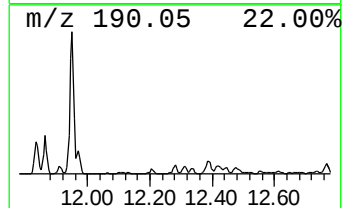
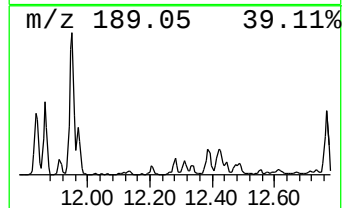
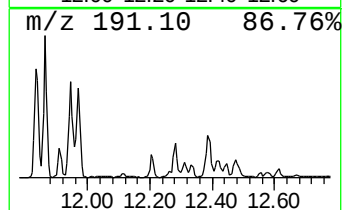
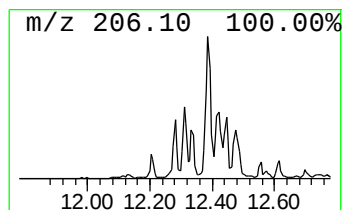
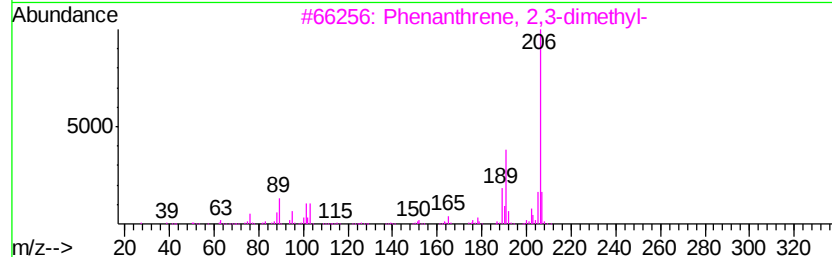
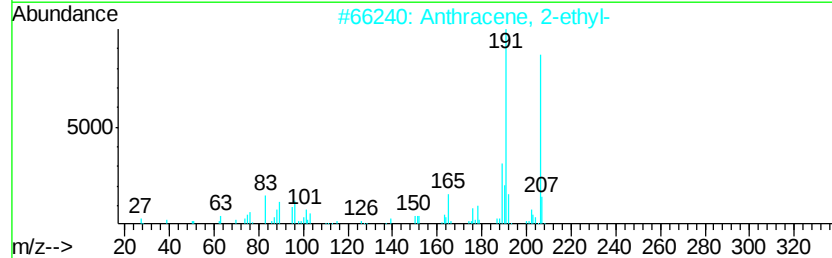
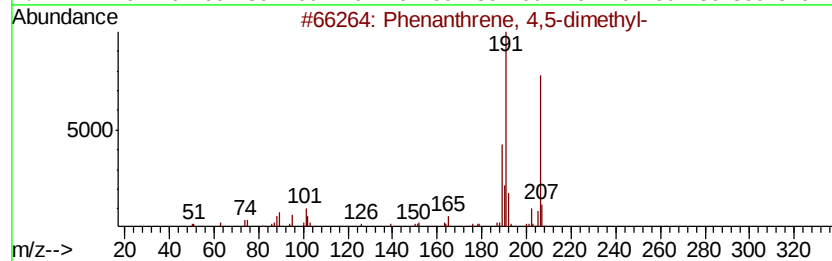
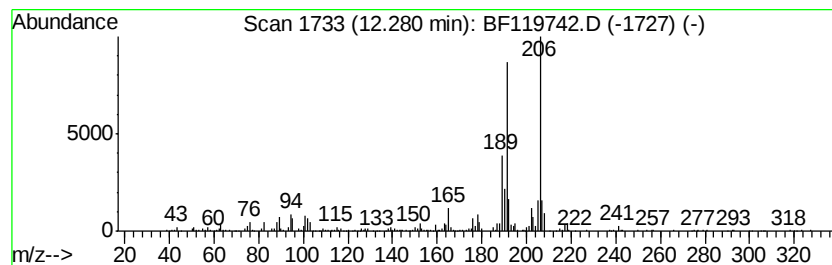
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Phenanthrene, 4,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	5.84 ng	498207	Phenanthrene-d10	11.33

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	96
2		Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4		1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	81
5		9,10-Dimethylantracene	206	C16H14	000781-43-1	68



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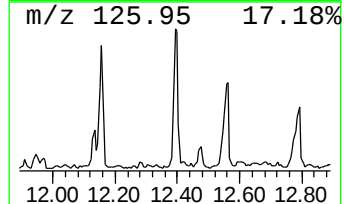
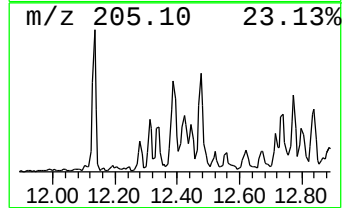
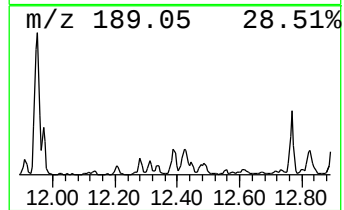
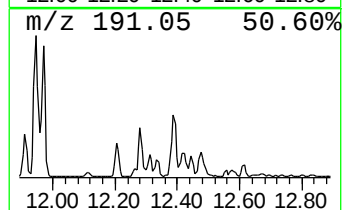
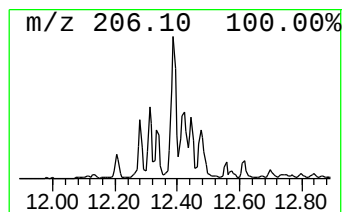
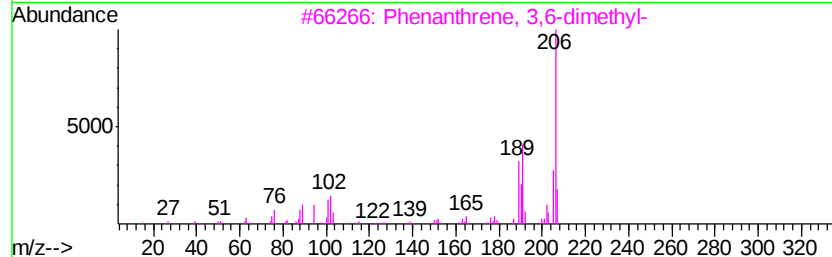
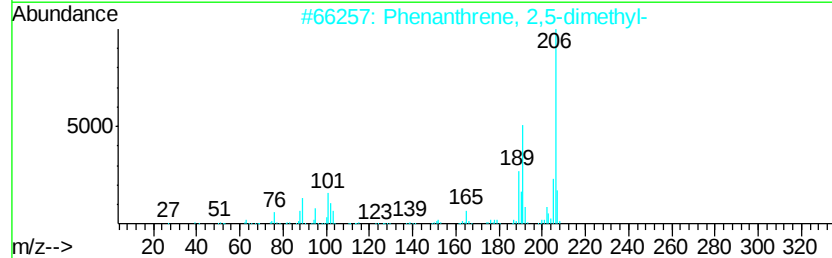
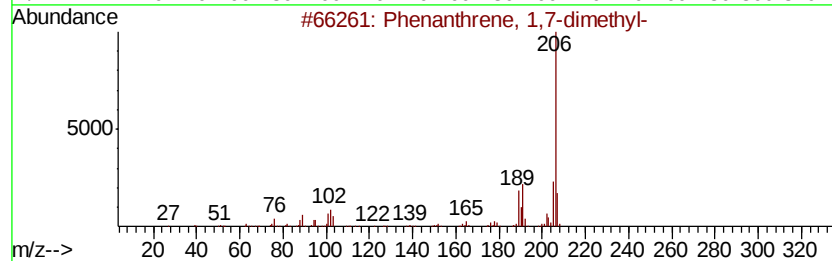
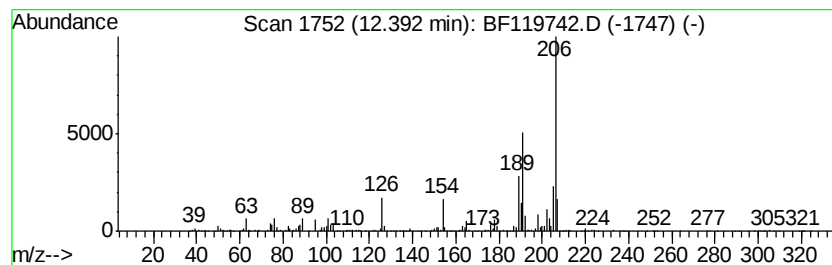
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 1,7-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	9.94 ng	847939	Phenanthrene-d10	11.33

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
2			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	86



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Misc :
ALS Vial : 31 Sample Multiplier: 1

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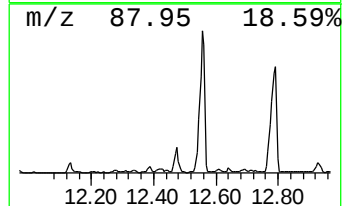
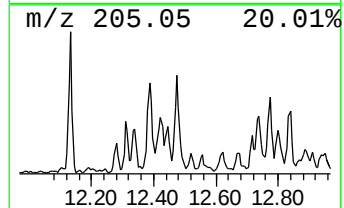
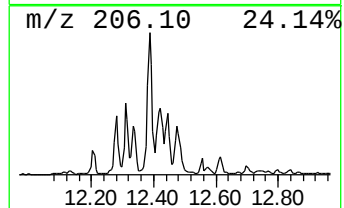
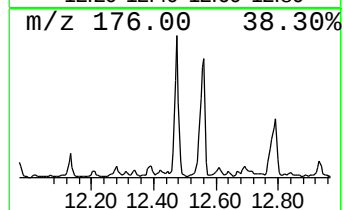
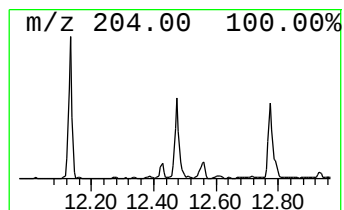
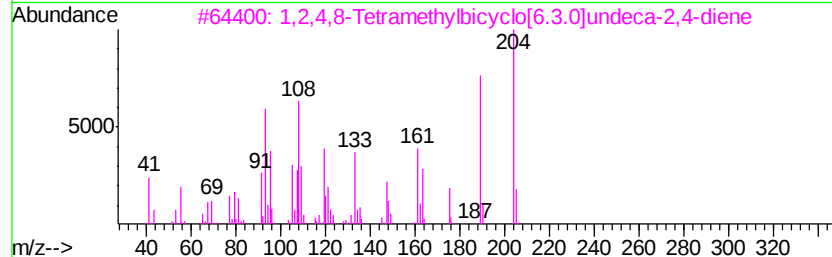
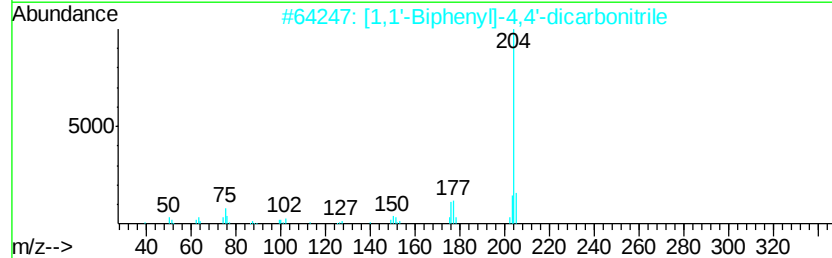
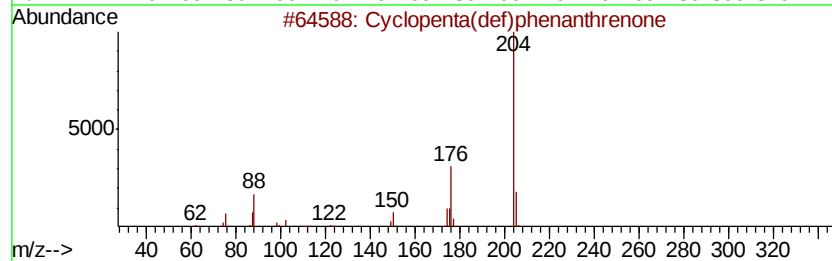
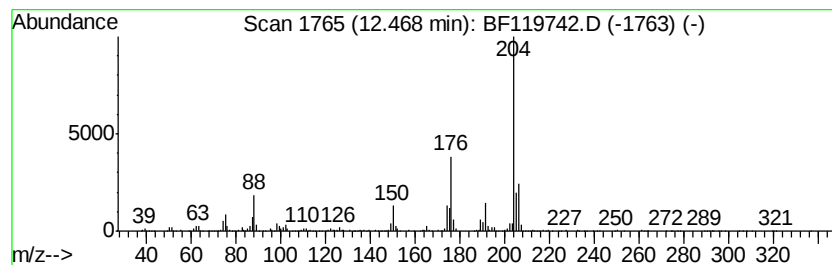
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	10.17 ng	867596	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
3		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	49
4		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47
5		Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
Data File : BF119742.D
Acq On : 4 Apr 2020 3:59
Operator : MA/SJ
Sample : L2129-41
Misc :
ALS Vial : 31 Sample Multiplier: 1

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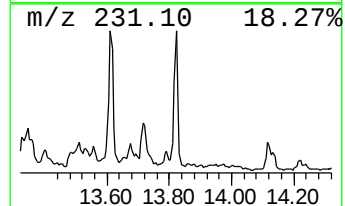
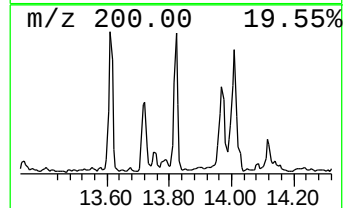
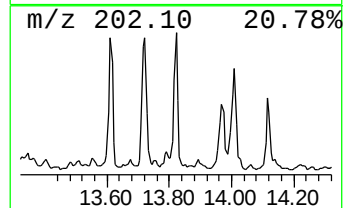
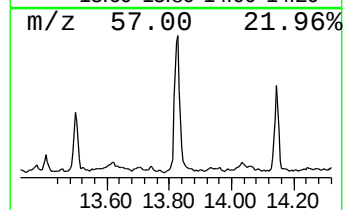
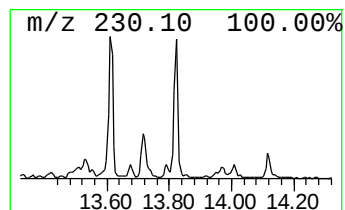
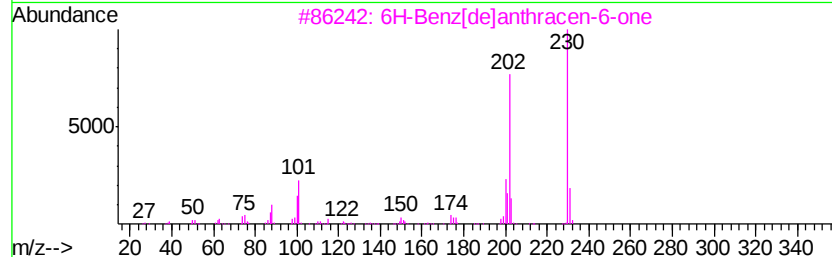
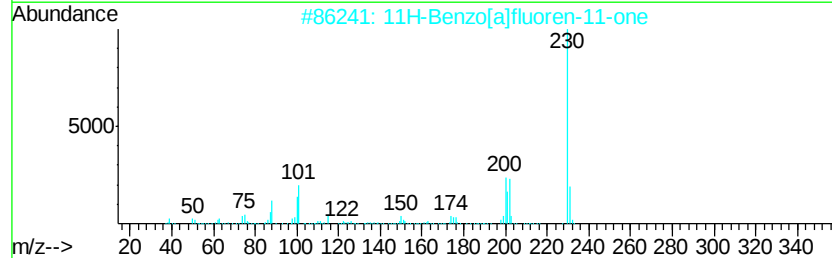
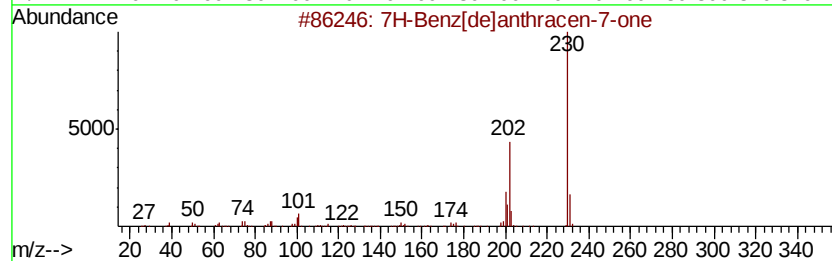
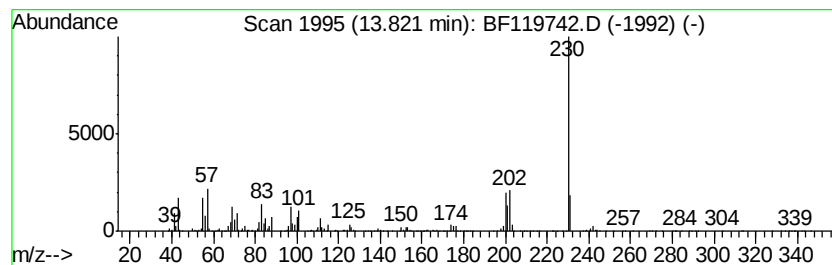
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 7H-Benz[de]anthracen-7-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	5.53 ng	1746060	Chrysene-d12	13.98

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76
2		11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	74
3		6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	53
4		o-Terphenyl	230	C18H14	000084-15-1	52
5		1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	50



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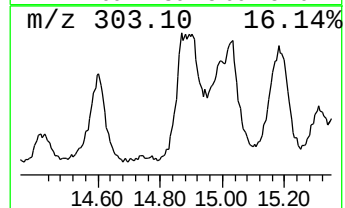
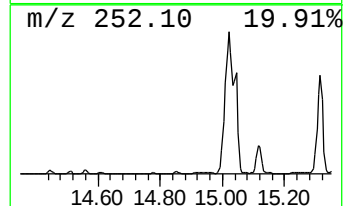
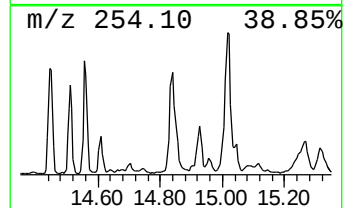
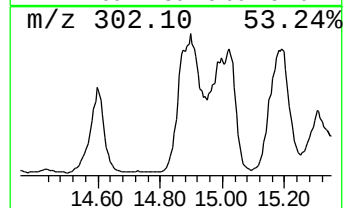
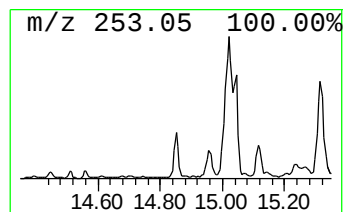
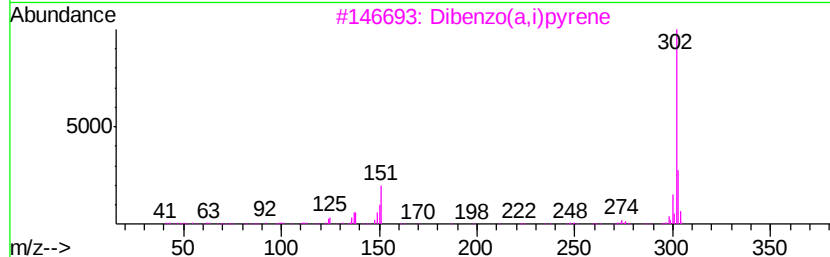
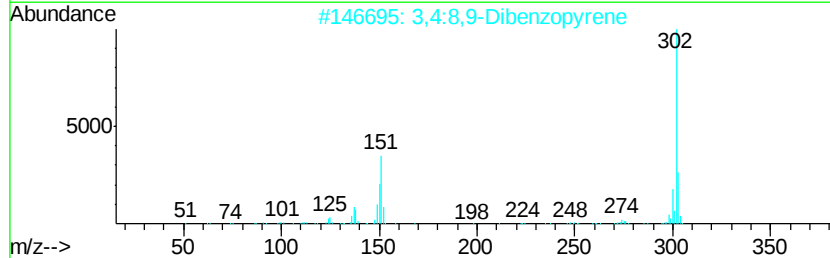
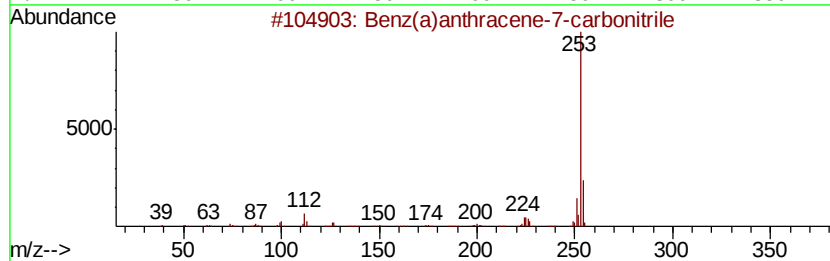
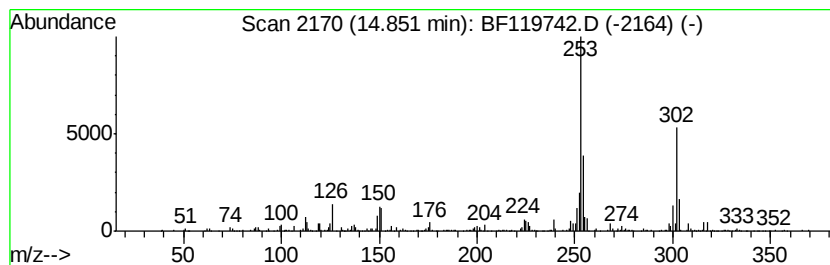
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Benz(a)anthracene-7-carboni... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.85	13.79 ng	817955	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	86
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	55
3		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	53
4		7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	49
5		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	46



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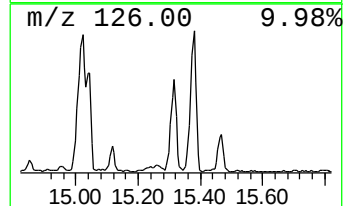
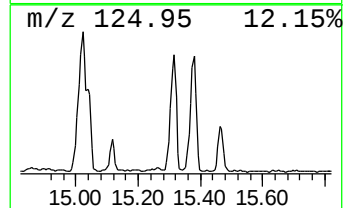
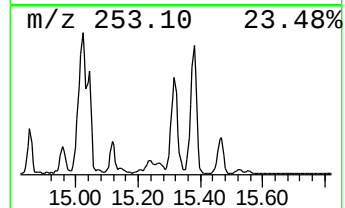
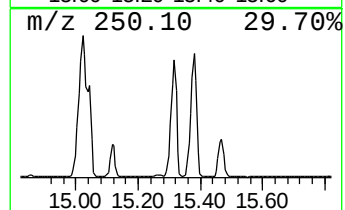
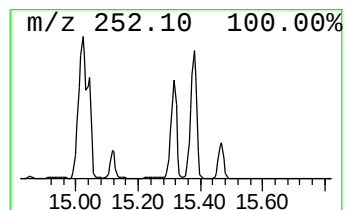
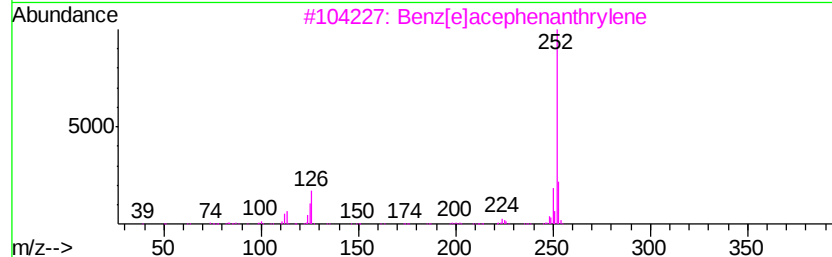
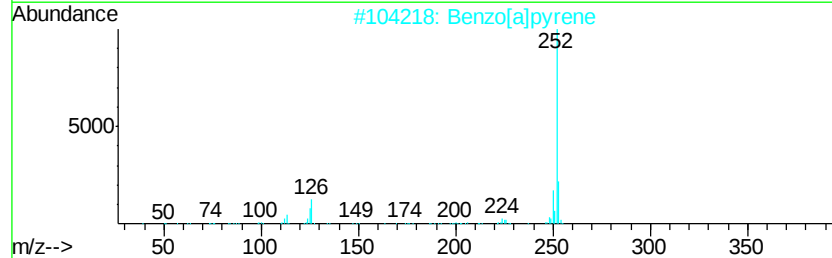
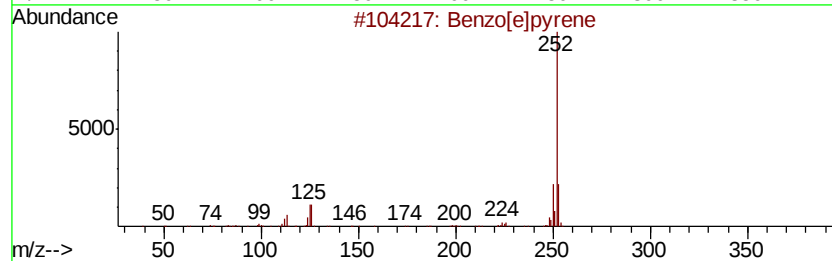
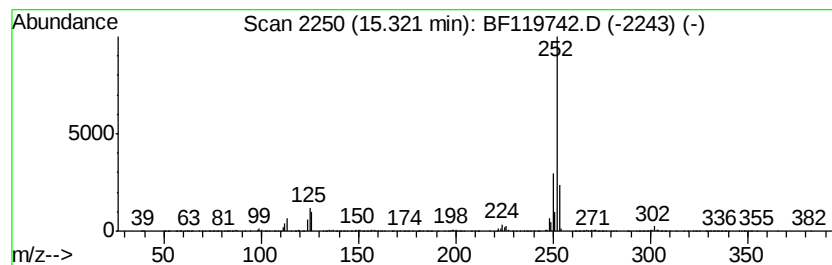
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	51.32 ng	3043050	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2		Benzo[a]pyrene	252	C20H12	000050-32-8	93
3		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	90
4		Benzo[i]fluoranthene	252	C20H12	000205-82-3	90
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
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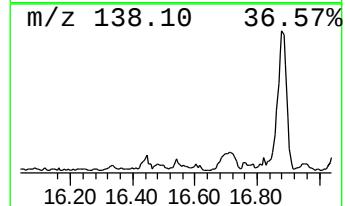
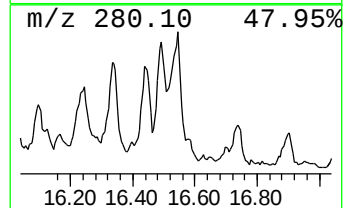
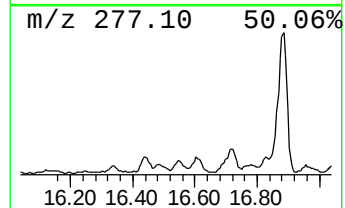
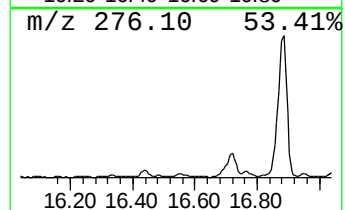
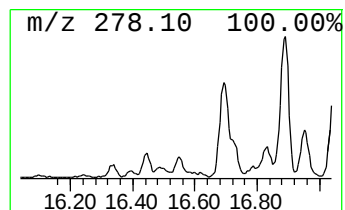
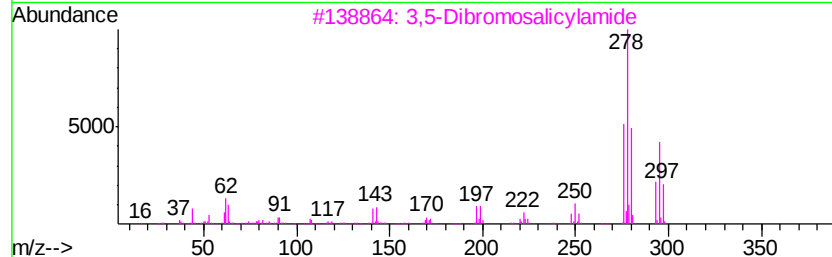
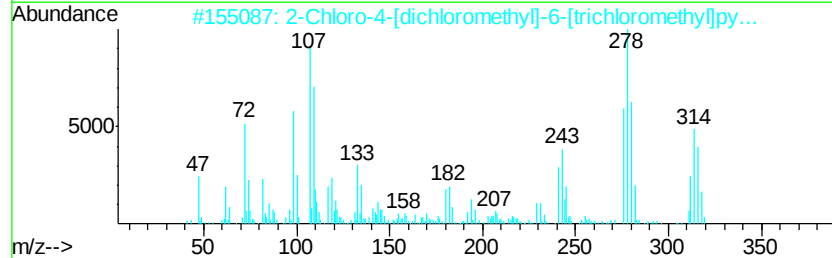
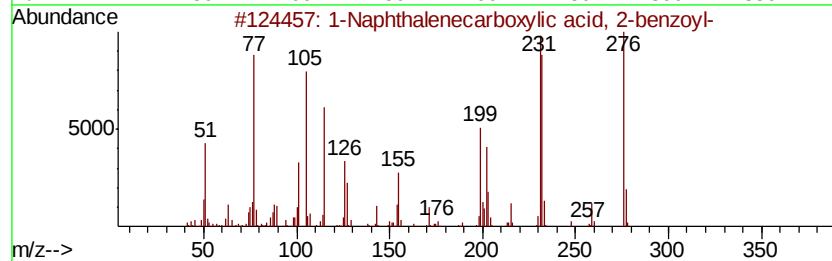
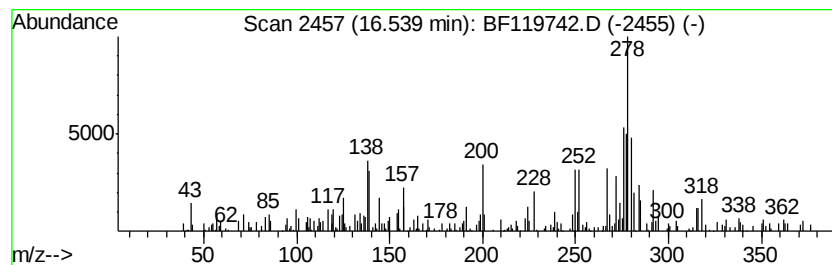
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 1-Naphthalenecarboxylic aci... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.54	8.83 ng	523637	Perylene-d12	15.43	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	56
2	2-Chloro-4-[dichloromethyl]-6-[t...	312	C6H2Cl6N2	1000254-14-7	43
3	3,5-Dibromosalicyclamide	293	C7H5Br2NO2	017892-25-0	43
4	2-Chloro-4,6-bis(2-thienyl)pvrin...	278	C12H7ClN2S2	124959-36-0	27
5	Benzenamine, 2-fluoro-5-nitro-N-...	278	C13H8ClFN2O2	304478-89-5	25



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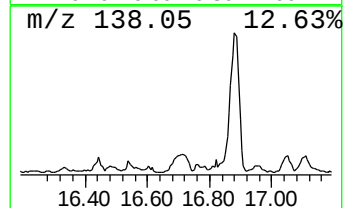
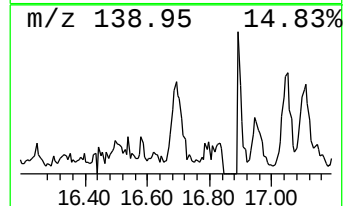
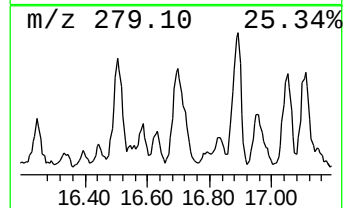
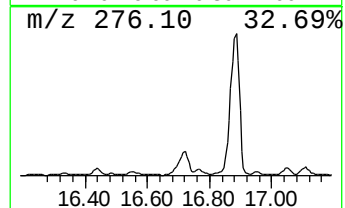
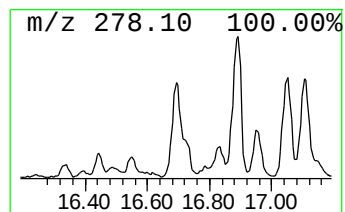
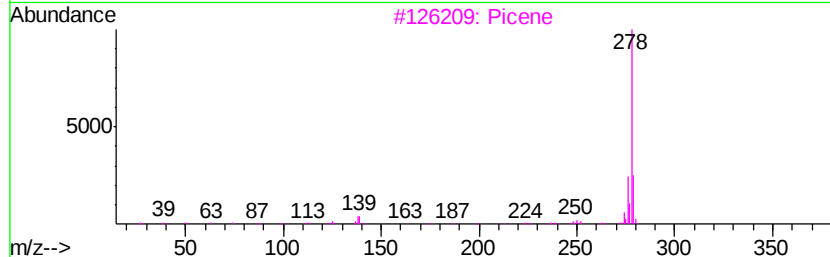
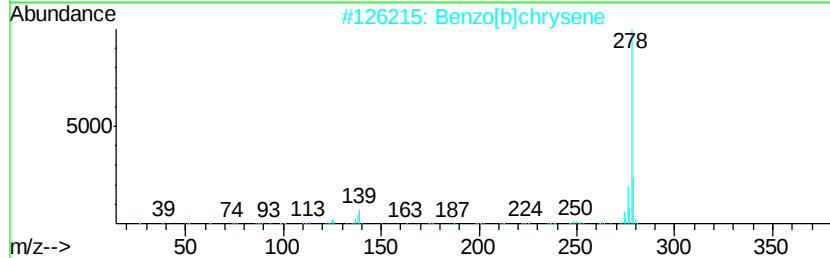
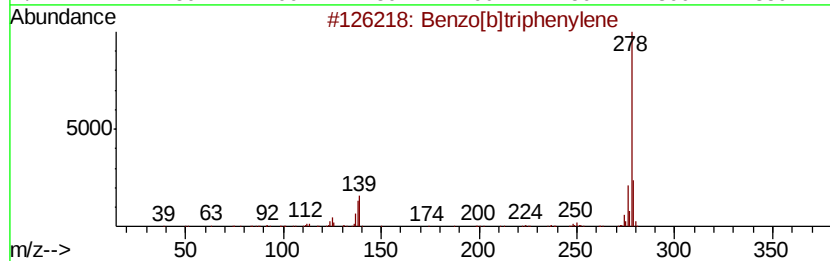
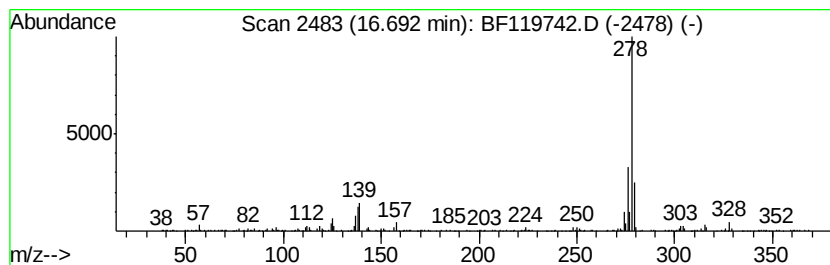
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Benzo[b]triphenylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.69	7.75 ng	459472	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2		Benzo[b]chrysene	278	C22H14	000214-17-5	94
3		Picene	278	C22H14	000213-46-7	94
4		Pentaphene	278	C22H14	000222-93-5	93
5		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90



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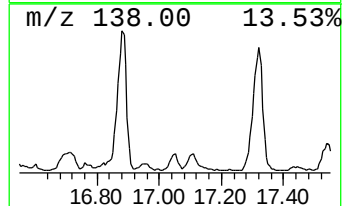
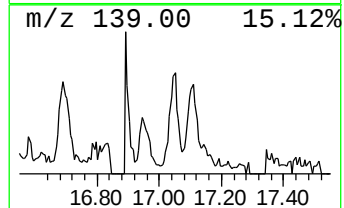
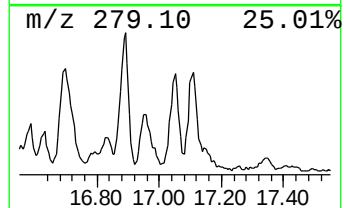
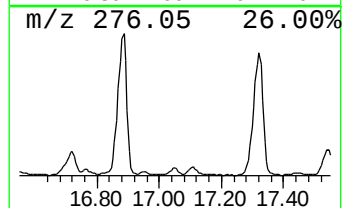
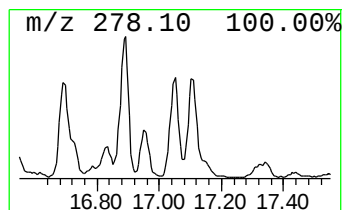
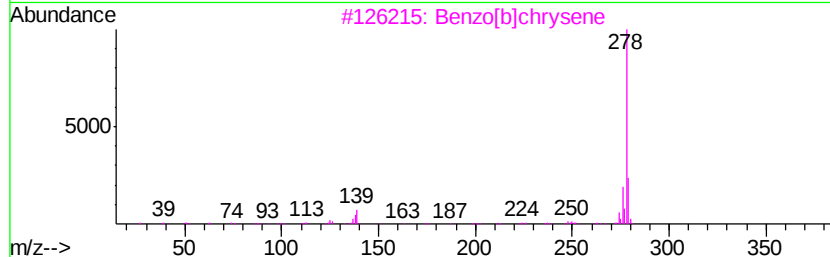
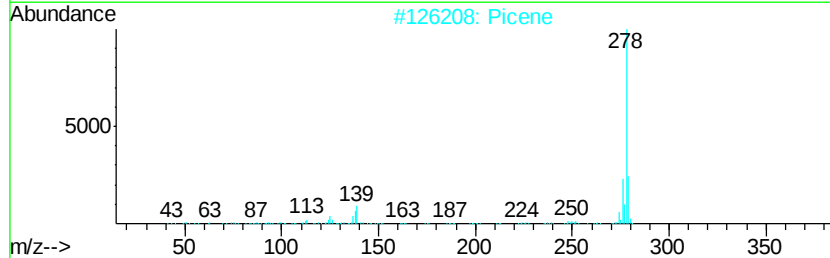
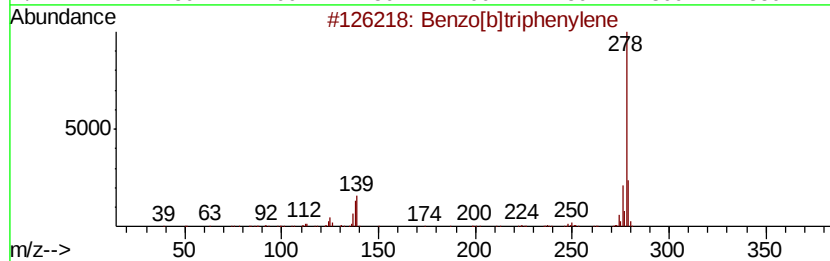
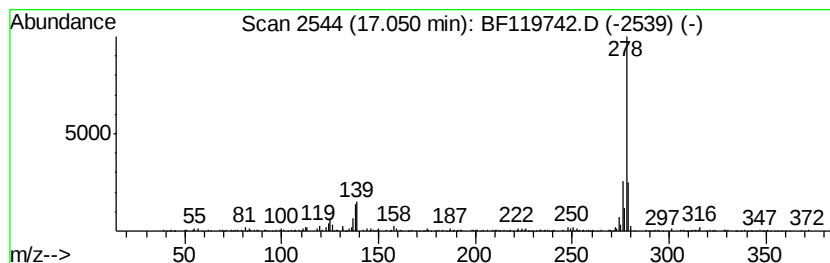
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 Picene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.05	7.41 ng	439455	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2		Picene	278	C22H14	000213-46-7	93
3		Benzo[b]chrysene	278	C22H14	000214-17-5	93
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	91
5		Pyrene, 1-phenyl-	278	C22H14	005101-27-9	86



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TP-3

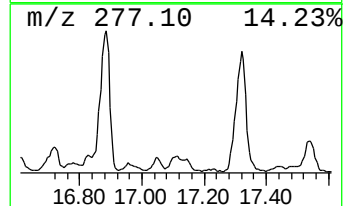
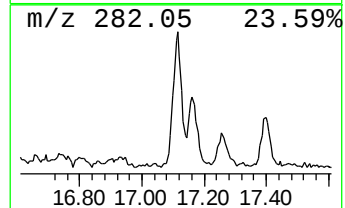
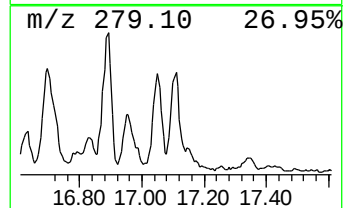
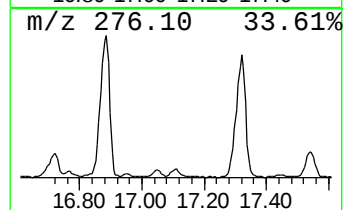
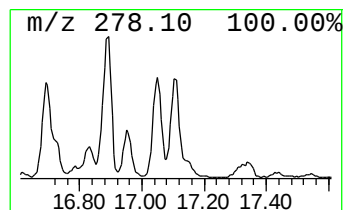
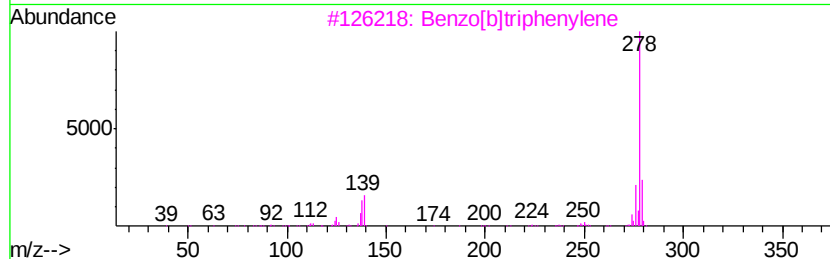
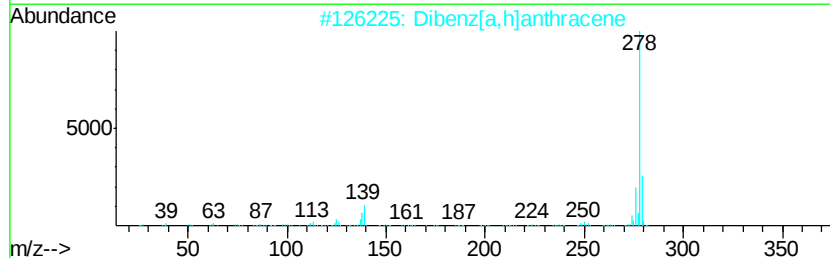
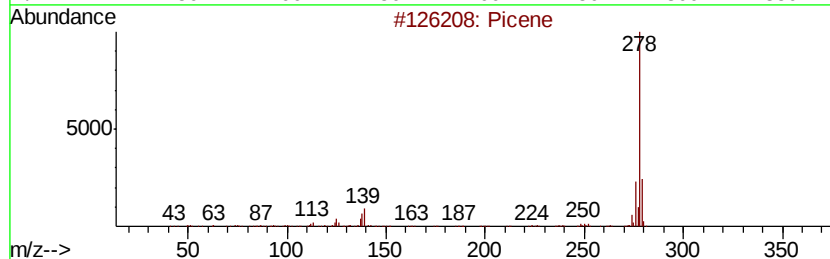
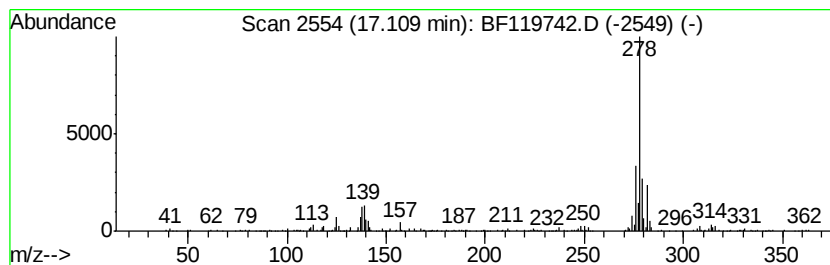
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[a]naphthacene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.11	6.67 ng	395412	Perylene-d12	15.43

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Picene	278	C22H14	000213-46-7	96
2			Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
3			Benzo[b]triphenylene	278	C22H14	000215-58-7	95
4			Benzo[a]naphthacene	278	C22H14	000226-88-0	86
5			Pentacene	278	C22H14	000135-48-8	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040320\
Data File : BF119742.D
Acq On : 4 Apr 2020 3:59
Operator : MA/SJ
Sample : L2129-41
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

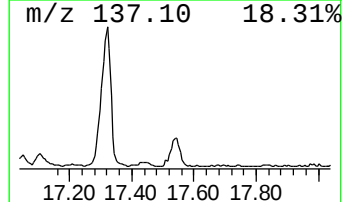
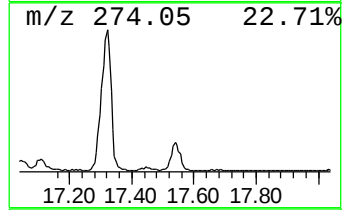
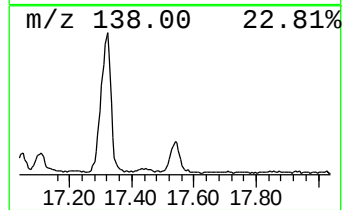
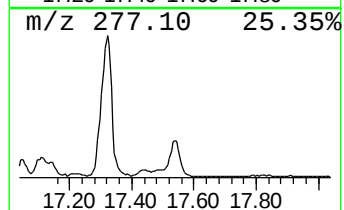
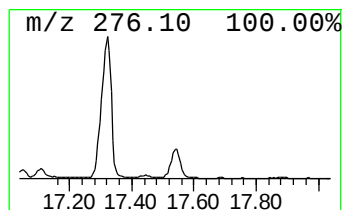
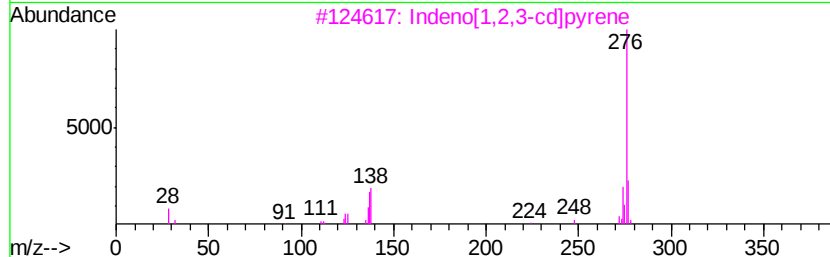
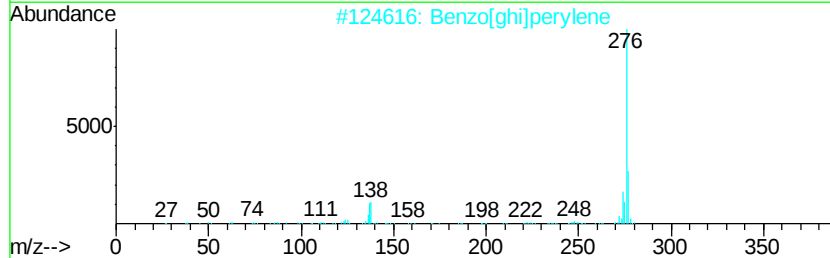
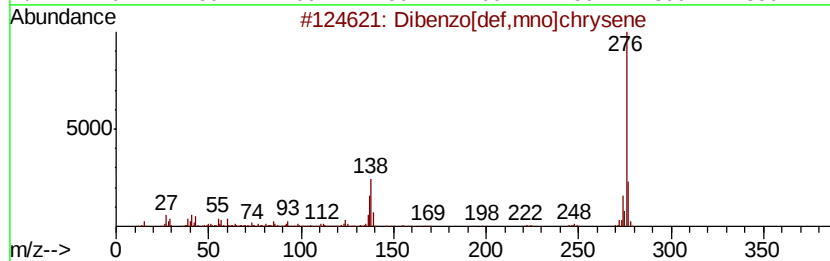
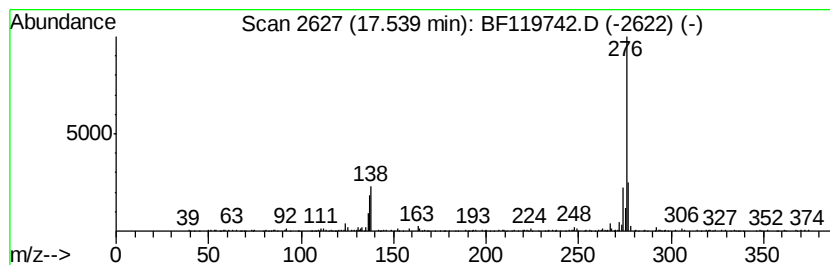
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	6.60 ng	391205	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	87
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	64
5		1H-Cyclopenta[4,5]pyrido[1,2-a]b...	276	C17H16N4	329707-31-5	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040320\
 Data File : BF119742.D
 Acq On : 4 Apr 2020 3:59
 Operator : MA/SJ
 Sample : L2129-41
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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
.alpha.-Pinene	6.09	5.9	ng	342812	1	6.80	1165910	20.0
Phenanthrene, 2-m...	11.83	14.7	ng	1254140	4	11.33	1705380	20.0
Anthracene, 2-met...	11.86	23.6	ng	2013290	4	11.33	1705380	20.0
4H-Cyclopenta[def...	11.94	20.4	ng	1738070	4	11.33	1705380	20.0
1H-Indene, 2-phenyl-	11.97	7.7	ng	659266	4	11.33	1705380	20.0
5,16[1',2']:8,13[...	12.13	11.7	ng	993051	4	11.33	1705380	20.0
9,10-Anthracenedione	12.16	11.0	ng	939556	4	11.33	1705380	20.0
Phenanthrene, 4,5...	12.28	5.8	ng	498207	4	11.33	1705380	20.0
Phenanthrene, 1,7...	12.39	9.9	ng	847939	4	11.33	1705380	20.0
Cyclopenta(def)ph...	12.47	10.2	ng	867596	4	11.33	1705380	20.0
7H-Benz[de]anthra...	13.82	5.5	ng	1746060	5	13.98	6314180	20.0
Benz(a)anthracene...	14.85	13.8	ng	817955	6	15.43	1185990	20.0
Benzo[e]pyrene	15.32	51.3	ng	3043050	6	15.43	1185990	20.0
1-Naphthalenecarb...	16.54	8.8	ng	523637	6	15.43	1185990	20.0
Benzo[b]triphenylene	16.69	7.8	ng	459472	6	15.43	1185990	20.0
Picene	17.05	7.4	ng	439455	6	15.43	1185990	20.0
Benzo[a]naphthacene	17.11	6.7	ng	395412	6	15.43	1185990	20.0
Dibenzo[def,mno]c...	17.54	6.6	ng	391205	6	15.43	1185990	20.0