

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
 Data File : BF117234.D
 Acq On : 24 Sep 2019 23:40
 Operator : JU
 Sample : K4668-12 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-092319

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-BF091319.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	5.434	566	569	582	rBV	222833	250152	20.05%	1.556%
2	6.451	739	742	757	rBV	263010	301503	24.16%	1.875%
3	6.586	761	765	772	rVV	354460	310934	24.92%	1.934%
4	6.810	800	803	813	rBV	170601	154605	12.39%	0.961%
5	6.969	827	830	845	rBV	267903	233818	18.74%	1.454%
6	7.375	896	899	915	rBV	152126	176234	14.12%	1.096%
7	8.092	1018	1021	1024	rBV	204000	207982	16.67%	1.293%
8	8.116	1024	1025	1032	rVB	97161	68446	5.49%	0.426%
9	8.810	1140	1143	1150	rBV	59316	59480	4.77%	0.370%
10	8.910	1155	1160	1168	rVB	53410	60166	4.82%	0.374%
11	9.169	1200	1204	1210	rBV	409128	361084	28.94%	2.245%
12	9.439	1244	1250	1254	rBV	38666	53429	4.28%	0.332%
13	9.510	1258	1262	1264	rVV	57268	63693	5.10%	0.396%
14	9.533	1264	1266	1268	rVV	40721	34644	2.78%	0.215%
15	9.563	1268	1271	1275	rVV	35769	40361	3.23%	0.251%
16	9.627	1279	1282	1290	rVB	28514	35030	2.81%	0.218%
17	9.710	1293	1296	1300	rBV	32946	28547	2.29%	0.178%
18	9.845	1312	1319	1322	rBV	275059	260006	20.84%	1.617%
19	9.880	1322	1325	1329	rVB	207287	166742	13.36%	1.037%
20	10.051	1351	1354	1358	rVV	178117	165854	13.29%	1.031%
21	10.092	1358	1361	1367	rVV	28000	32944	2.64%	0.205%
22	10.398	1409	1413	1419	rBV	312900	299601	24.01%	1.863%
23	10.551	1437	1439	1443	rVB	54577	49778	3.99%	0.310%
24	10.639	1450	1454	1459	rBV	230335	237285	19.02%	1.476%
25	10.763	1470	1475	1481	rVB6	28878	47334	3.79%	0.294%
26	10.945	1500	1506	1509	rBV2	59833	81015	6.49%	0.504%
27	11.074	1523	1528	1529	rBV3	21864	28593	2.29%	0.178%
28	11.192	1542	1548	1551	rVV4	43266	57236	4.59%	0.356%
29	11.233	1551	1555	1562	rVB	96070	101845	8.16%	0.633%
30	11.333	1569	1572	1574	rBV	219536	227979	18.27%	1.418%
31	11.363	1574	1577	1580	rVV	1360467	1247696	100.00%	7.759%
32	11.410	1582	1585	1589	rVV	406275	376584	30.18%	2.342%
33	11.445	1589	1591	1597	rVV2	33993	49503	3.97%	0.308%
34	11.568	1609	1612	1619	rVV	119609	141338	11.33%	0.879%

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Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.621	1619	1621	1624	rVV2	35347	37172	2.98%	0.231%
36	11.668	1626	1629	1634	rVB3	23420	34667	2.78%	0.216%
37	11.721	1634	1638	1641	rBV	224517	176480	14.14%	1.097%
38	11.833	1654	1657	1660	rBV	134780	133599	10.71%	0.831%
39	11.863	1660	1662	1668	rVV	195111	188272	15.09%	1.171%
40	11.915	1668	1671	1673	rVV	75129	73504	5.89%	0.457%
41	11.951	1673	1677	1679	rVV	243355	257066	20.60%	1.599%
42	11.968	1679	1680	1685	rVV	91131	67045	5.37%	0.417%
43	12.027	1685	1690	1695	rVB5	21418	39959	3.20%	0.248%
44	12.127	1704	1707	1711	rBV	80729	77690	6.23%	0.483%
45	12.310	1735	1738	1740	rBV	35512	30916	2.48%	0.192%
46	12.386	1746	1751	1752	rBV	71627	75482	6.05%	0.469%
47	12.410	1752	1755	1757	rVV	684763	689382	55.25%	4.287%
48	12.433	1757	1759	1764	rVV	968037	814011	65.24%	5.062%
49	12.480	1764	1767	1770	rVB3	27543	34335	2.75%	0.214%
50	12.515	1770	1773	1775	rVB	96147	80072	6.42%	0.498%
51	12.557	1775	1780	1783	rBV	1129620	1017046	81.51%	6.325%
52	12.698	1801	1804	1808	rBV2	40253	42765	3.43%	0.266%
53	12.786	1811	1819	1824	rBV2	796452	991899	79.50%	6.168%
54	12.827	1824	1826	1831	rVB2	57434	64222	5.15%	0.399%
55	12.915	1835	1841	1844	rBV2	423084	407664	32.67%	2.535%
56	12.939	1844	1845	1850	rVB	40988	37525	3.01%	0.233%
57	12.998	1850	1855	1858	rBV3	63172	116672	9.35%	0.726%
58	13.080	1866	1869	1871	rBV3	61505	85006	6.81%	0.529%
59	13.110	1871	1874	1877	rVB	175587	172737	13.84%	1.074%
60	13.145	1877	1880	1881	rBV3	28311	29132	2.33%	0.181%
61	13.174	1881	1885	1888	rVV	174479	169068	13.55%	1.051%
62	13.210	1888	1891	1894	rVV2	86642	104668	8.39%	0.651%
63	13.304	1904	1907	1909	rBV	38426	36814	2.95%	0.229%
64	13.339	1909	1913	1915	rBV2	39047	48223	3.86%	0.300%
65	13.486	1935	1938	1940	rBV2	30216	33479	2.68%	0.208%
66	13.527	1943	1945	1948	rVV2	37349	40876	3.28%	0.254%
67	13.592	1952	1956	1958	rBV3	31191	40966	3.28%	0.255%
68	13.621	1959	1961	1964	rVB4	25995	26835	2.15%	0.167%
69	13.727	1975	1979	1981	rBV	67966	69443	5.57%	0.432%
70	13.751	1981	1983	1985	rVB	59796	43195	3.46%	0.269%
71	13.774	1985	1987	1989	rBV	29709	29308	2.35%	0.182%

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72	13.898	2005	2008	2013	rVB3	27972	41802	3.35%	0.260%
73	13.974	2013	2021	2024	rBV2	514536	792597	63.52%	4.929%
74	14.004	2024	2026	2034	rVB	391778	358345	28.72%	2.228%
75	14.086	2037	2040	2042	rVV	59415	51819	4.15%	0.322%
76	14.127	2045	2047	2052	rVV5	41525	44307	3.55%	0.276%
77	14.204	2056	2060	2063	rBV2	43532	58798	4.71%	0.366%
78	14.321	2078	2080	2083	rBV	44027	46987	3.77%	0.292%
79	14.362	2083	2087	2090	rVV	92560	108911	8.73%	0.677%
80	14.398	2090	2093	2096	rVV3	39627	38148	3.06%	0.237%
81	14.433	2096	2099	2102	rVV3	46564	52834	4.23%	0.329%
82	14.462	2102	2104	2106	rVV2	42656	44555	3.57%	0.277%
83	14.486	2106	2108	2110	rVV2	46830	48929	3.92%	0.304%
84	14.509	2110	2112	2116	rVB2	54078	51286	4.11%	0.319%
85	14.733	2148	2150	2154	rVB3	27546	36371	2.92%	0.226%
86	14.856	2168	2171	2177	rVB3	40653	53701	4.30%	0.334%
87	15.015	2193	2198	2201	rBV	249232	378446	30.33%	2.353%
88	15.062	2204	2206	2213	rVB2	55611	67727	5.43%	0.421%
89	15.121	2213	2216	2223	rBV	56257	72435	5.81%	0.450%
90	15.309	2245	2248	2254	rVB	124459	166280	13.33%	1.034%
91	15.374	2255	2259	2264	rVV	212277	278678	22.34%	1.733%
92	15.433	2265	2269	2272	rVV	177051	226946	18.19%	1.411%
93	15.462	2272	2274	2281	rVB2	57456	93758	7.51%	0.583%
94	15.856	2337	2341	2347	rBV2	43997	65727	5.27%	0.409%
95	16.098	2380	2382	2390	rVB8	19510	29748	2.38%	0.185%
96	16.345	2420	2424	2429	rVB4	24077	43636	3.50%	0.271%
97	16.527	2452	2455	2461	rVB6	24331	41600	3.33%	0.259%
98	16.892	2509	2517	2525	rBV	70867	171411	13.74%	1.066%
99	17.321	2584	2590	2602	rBV	46318	108217	8.67%	0.673%
100	17.574	2627	2633	2644	rVB9	23355	78306	6.28%	0.487%

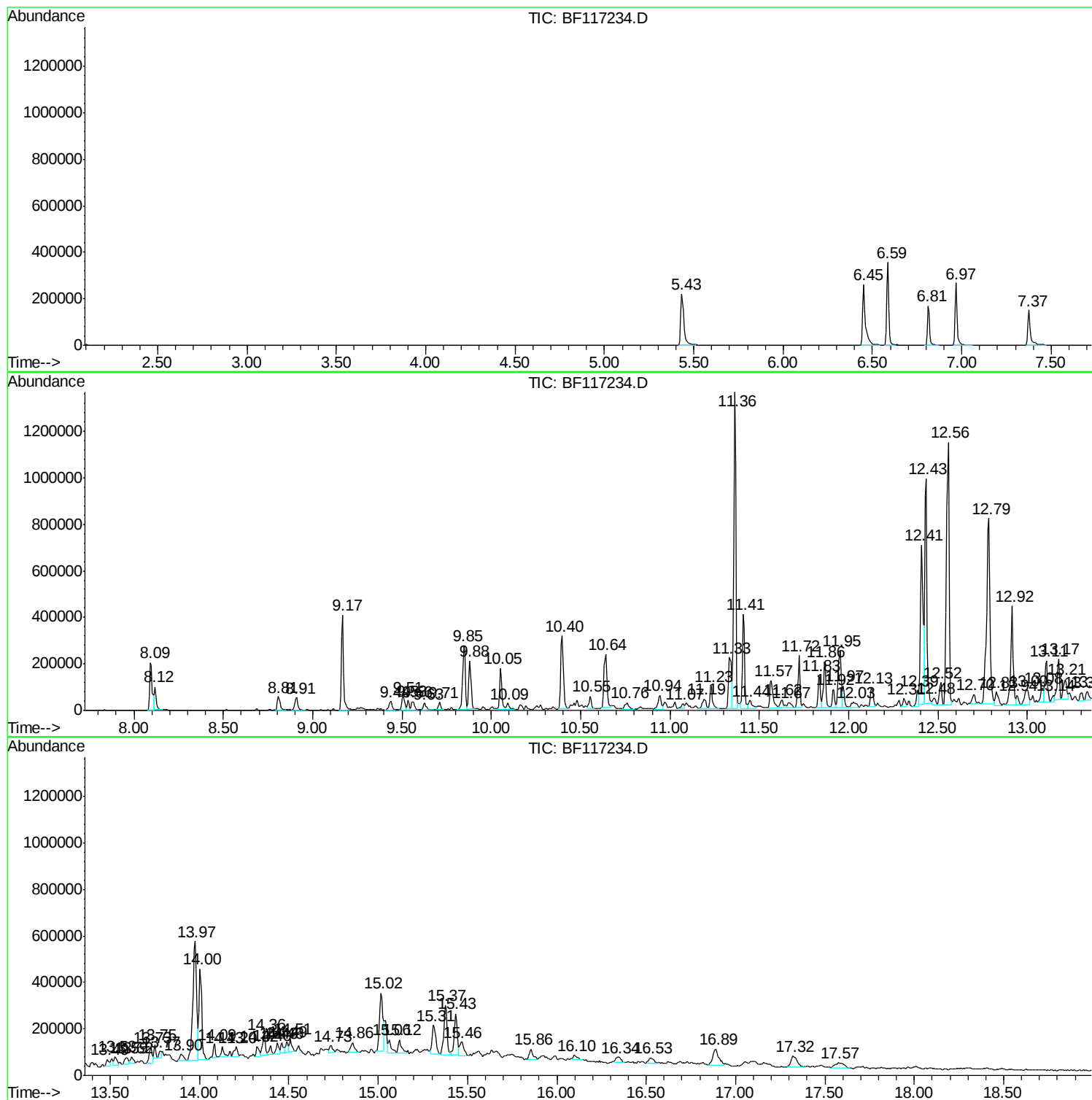
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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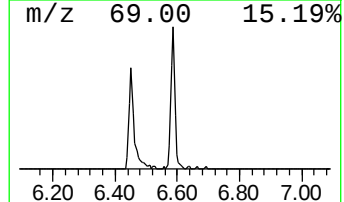
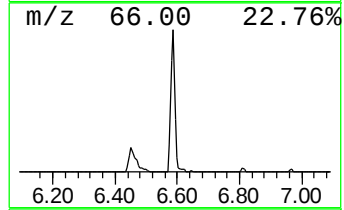
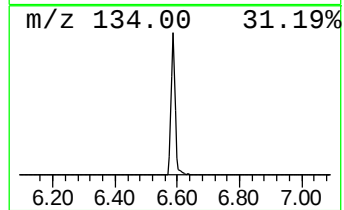
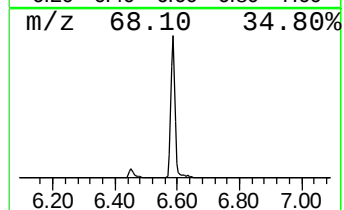
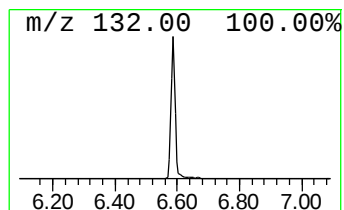
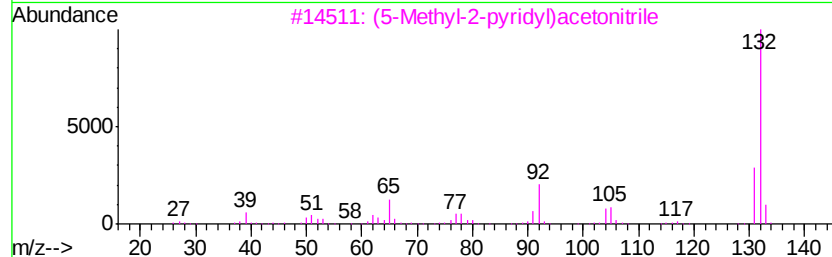
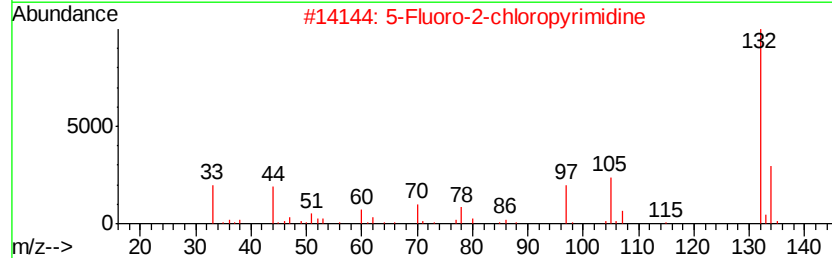
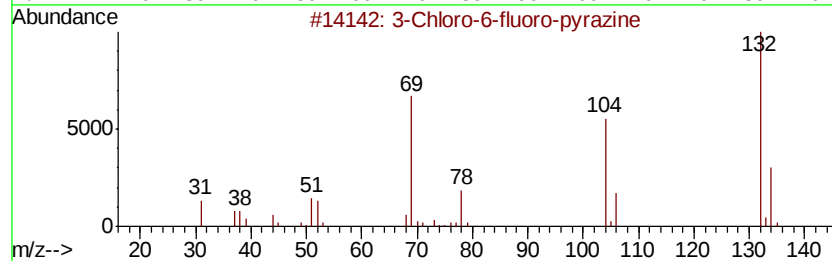
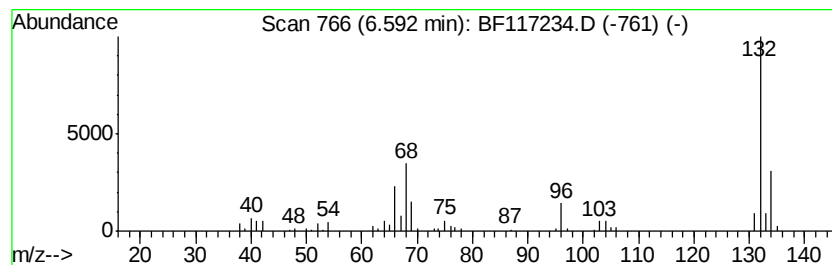
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.59 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	40.22 ng	310934	1,4-Dichlorobenzene-d4	6.81

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3		(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	10
4		Xenon	132	Xe	007440-63-3	9
5		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9



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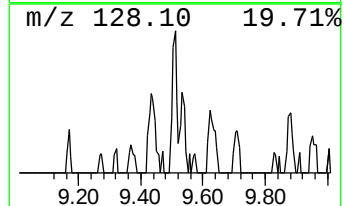
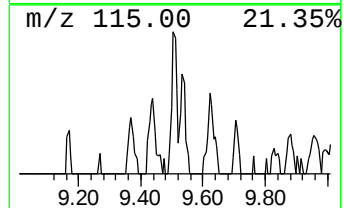
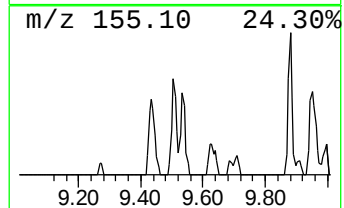
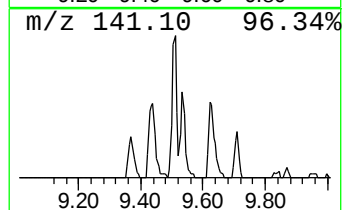
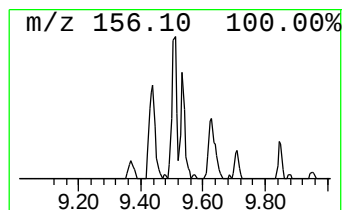
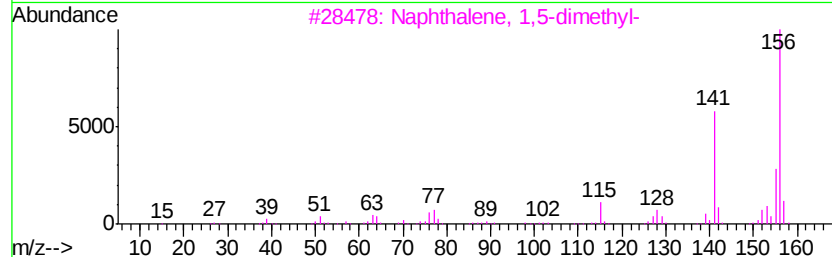
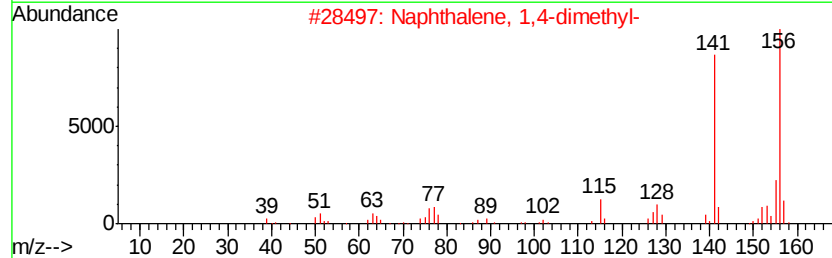
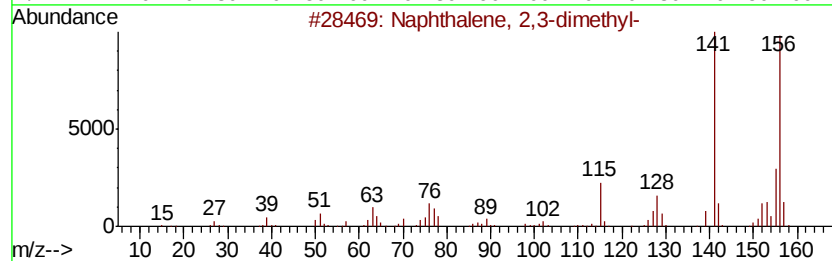
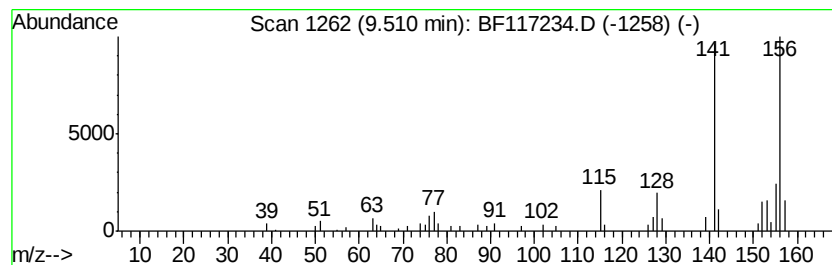
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD		R.T.	
9.51	4.90 ng	63693	Acenaphthene-d10		9.85	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
2		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	94
3		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	94
4		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	94
5		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	94



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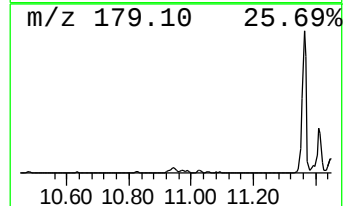
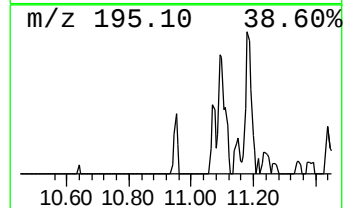
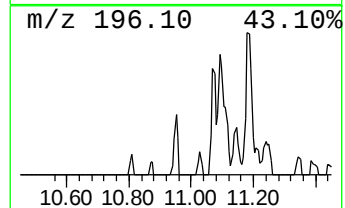
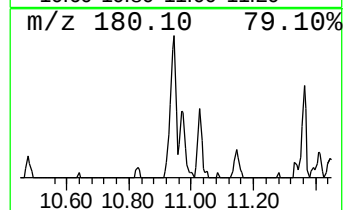
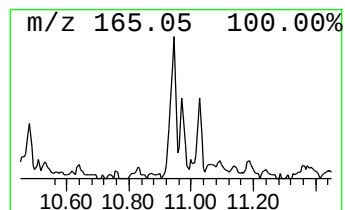
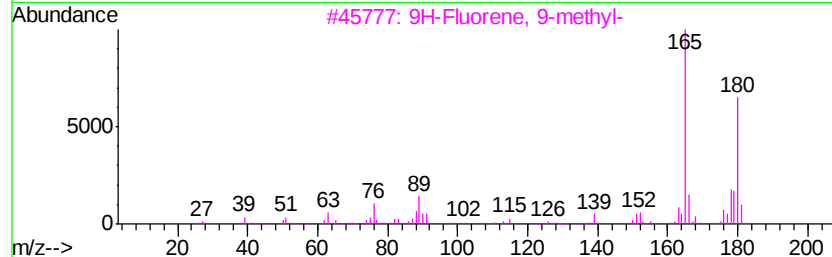
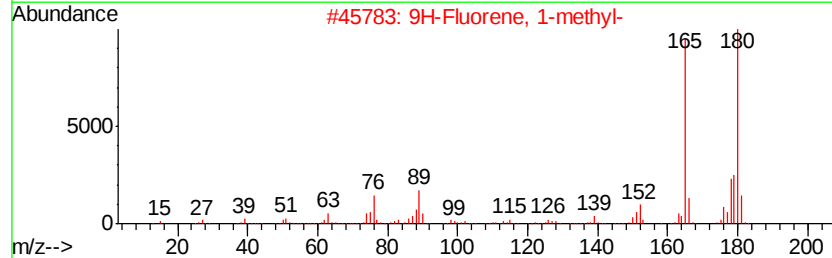
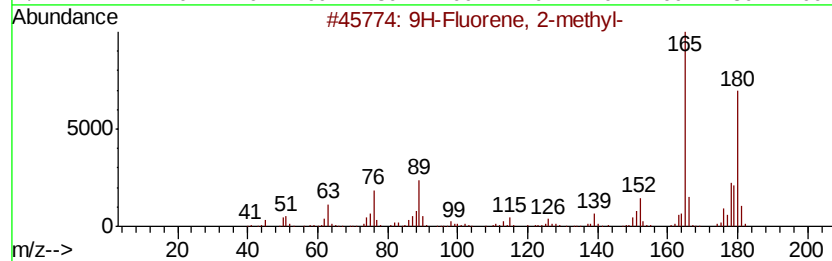
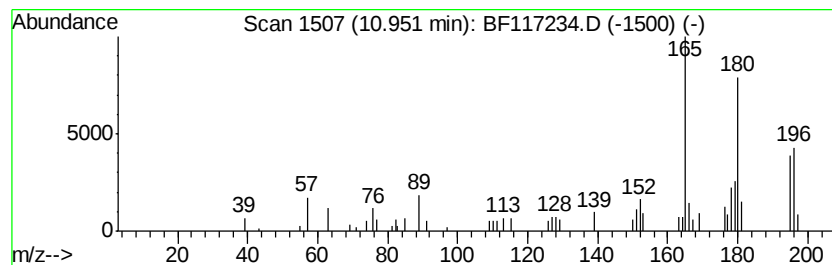
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 9H-Fluorene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	7.11 ng	81015	Phenanthrene-d10	11.33

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2			9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
3			9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	95
4			4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	83
5			(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
Operator : JU
Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

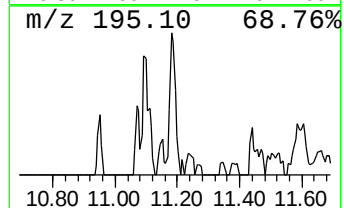
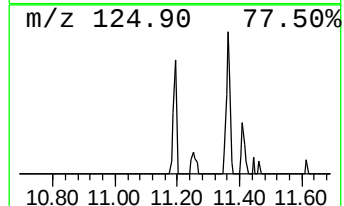
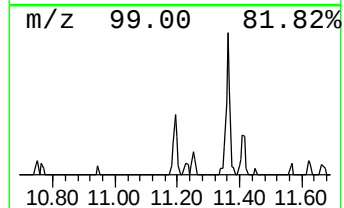
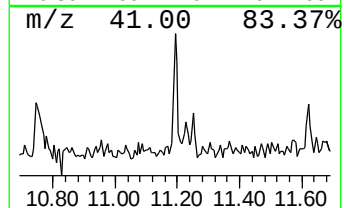
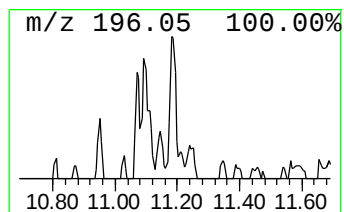
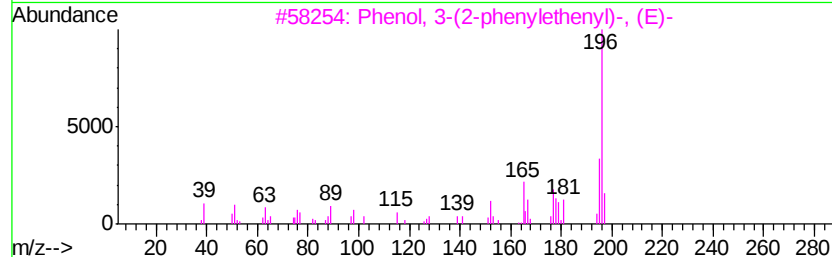
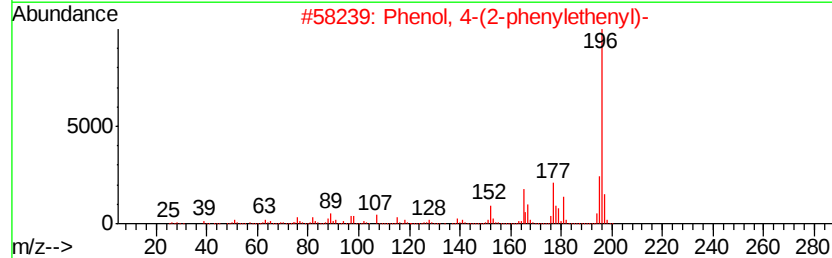
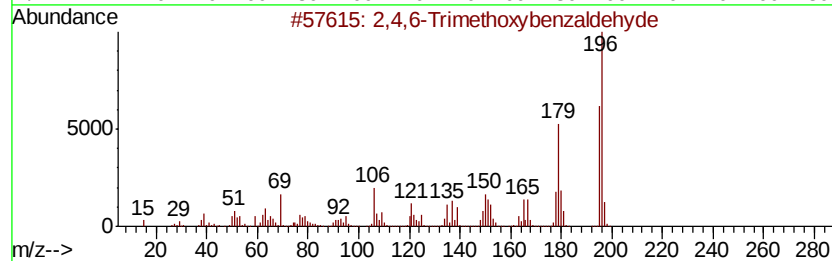
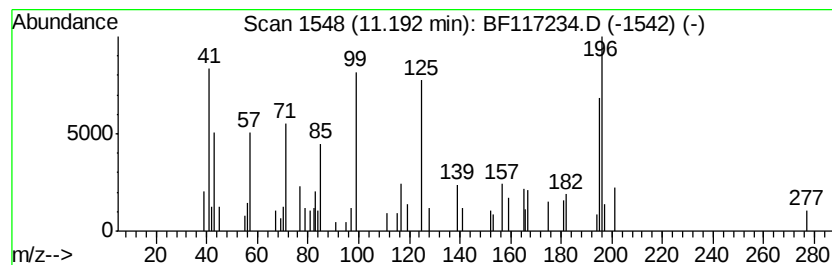
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 unknown11.19 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	5.02 ng	57236	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	22
2		Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	18
3		Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	18
4		Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	18
5		7-Methoxy-piperonylic acid	196	C9H8O5	000526-34-1	18



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
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Misc :
ALS Vial : 22 Sample Multiplier: 1

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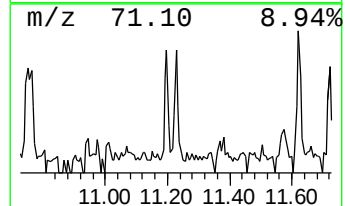
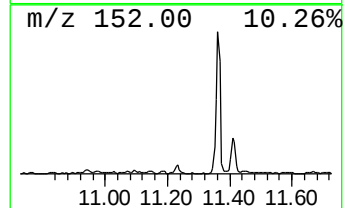
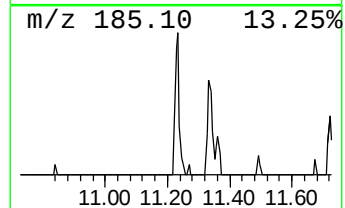
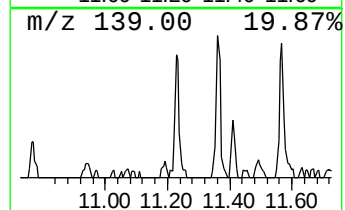
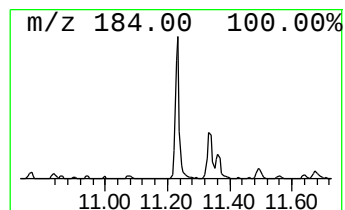
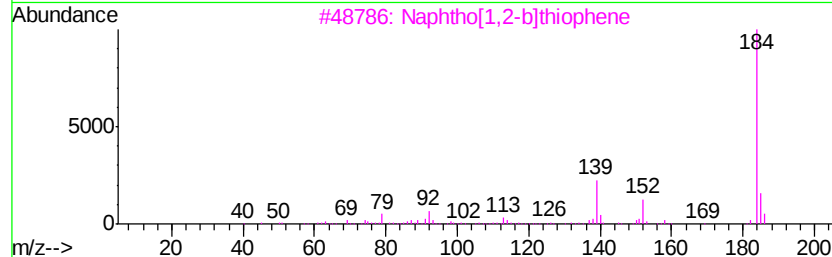
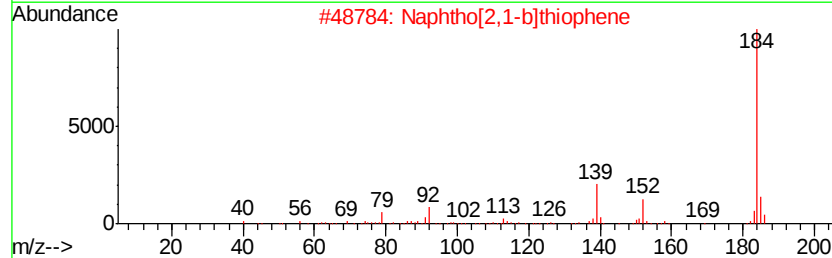
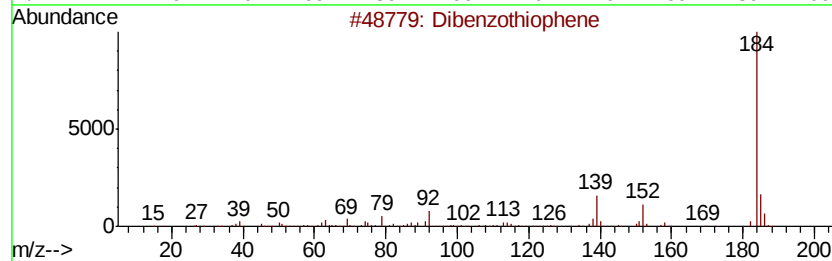
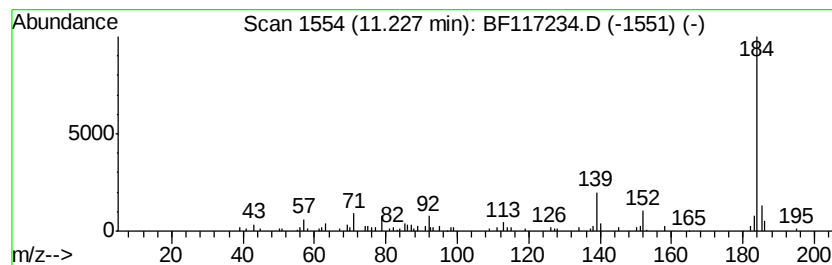
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Dibenzothiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	8.93 ng	101845	Phenanthrene-d10	11.33

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dibenzothiophene	184	C12H8S	000132-65-0	97
2		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
3		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
4		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
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Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

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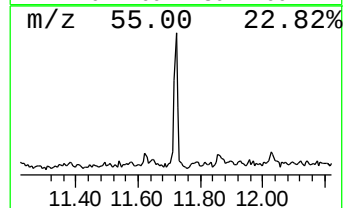
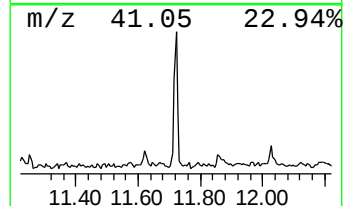
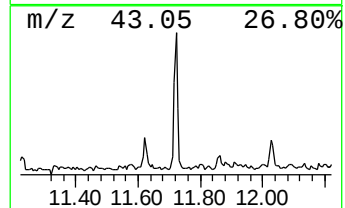
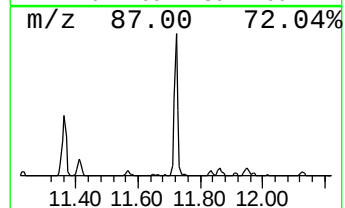
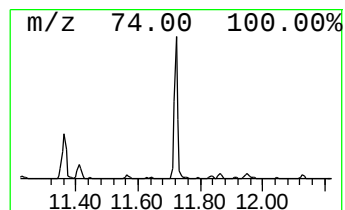
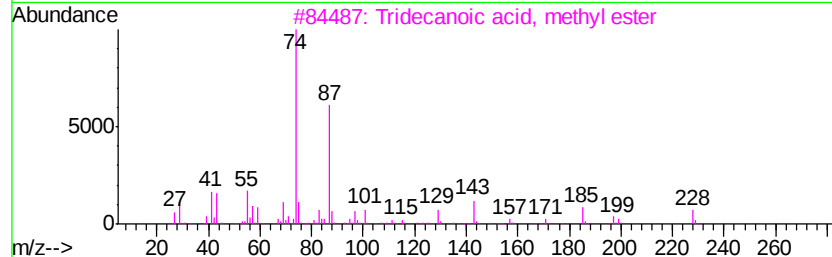
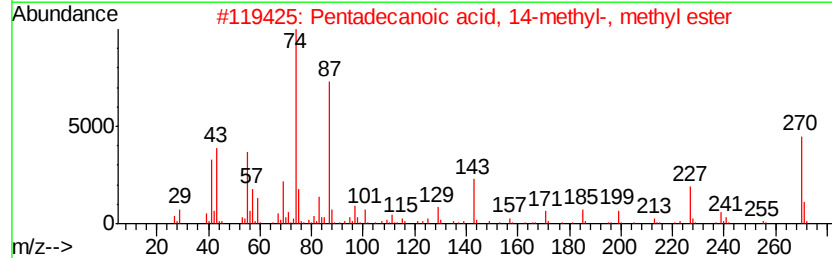
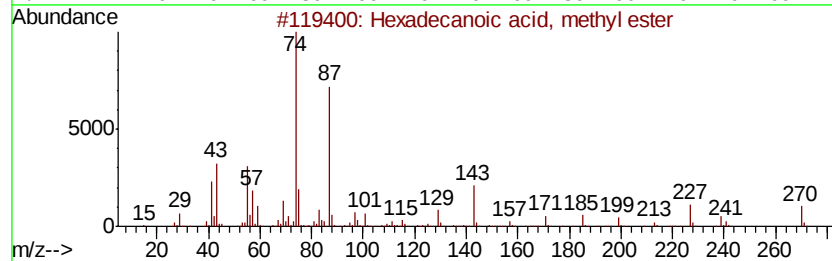
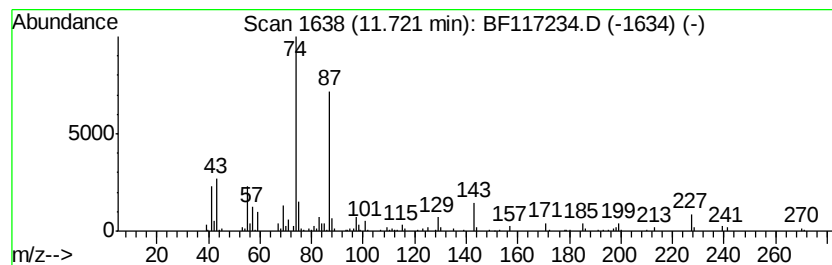
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	15.48 ng	176480	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	96
2		Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	94
3		Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	86
4		Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	86
5		Methyl tetradecanoate	242	C15H30O2	000124-10-7	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
Operator : JU
Sample : K4668-12 2X
Misc :
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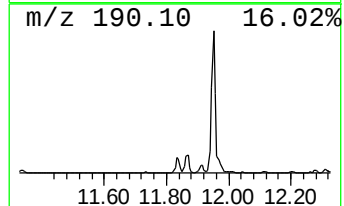
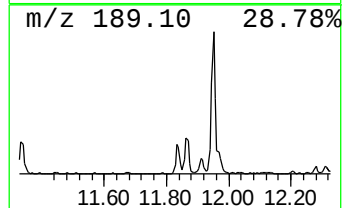
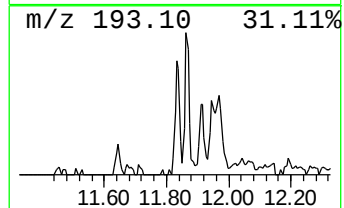
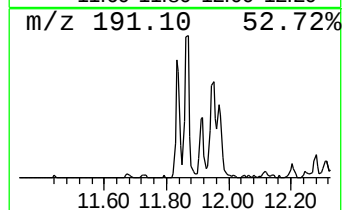
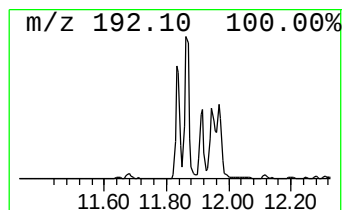
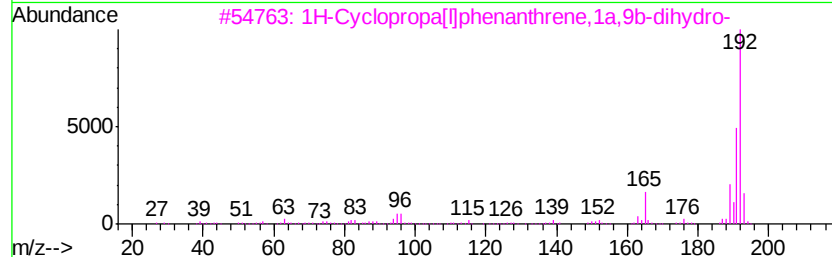
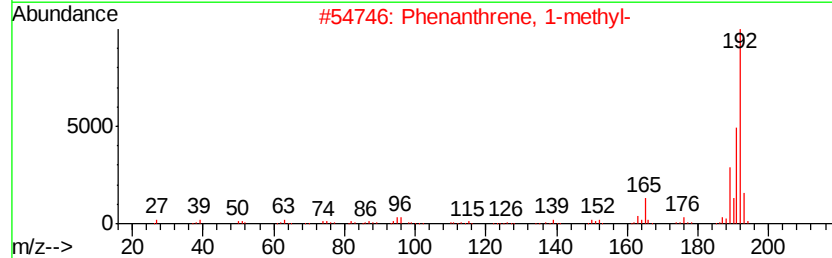
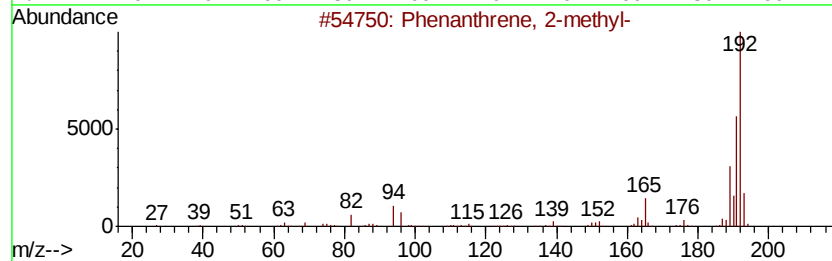
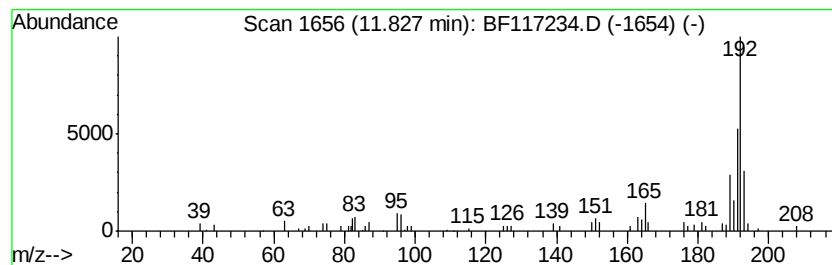
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.83	11.72 ng	133599	Phenanthrene-d10	11.33	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
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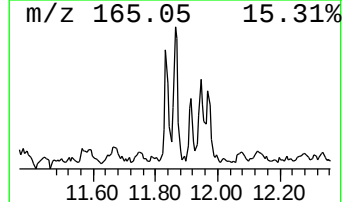
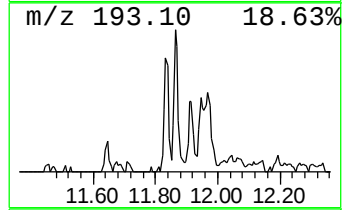
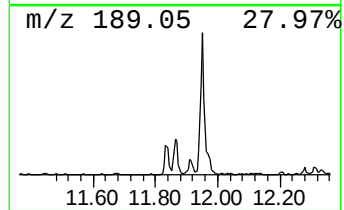
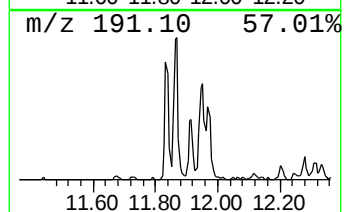
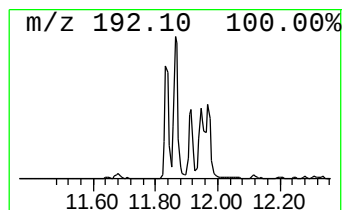
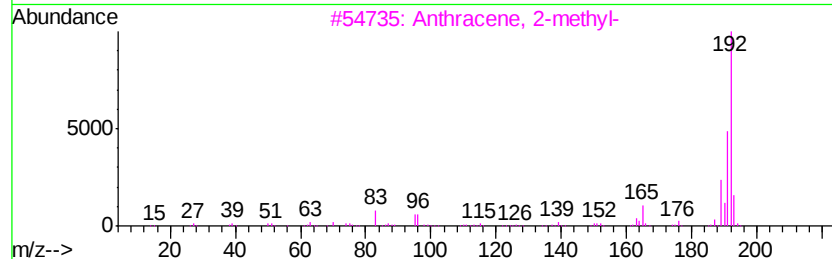
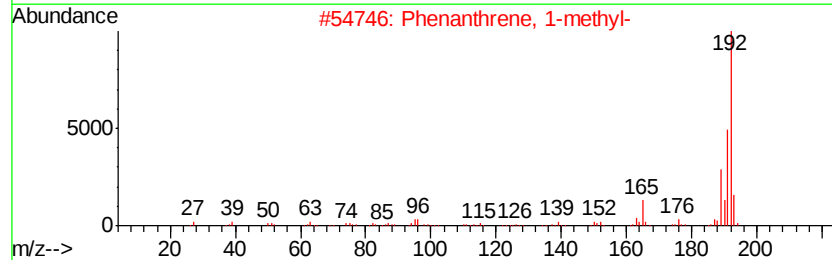
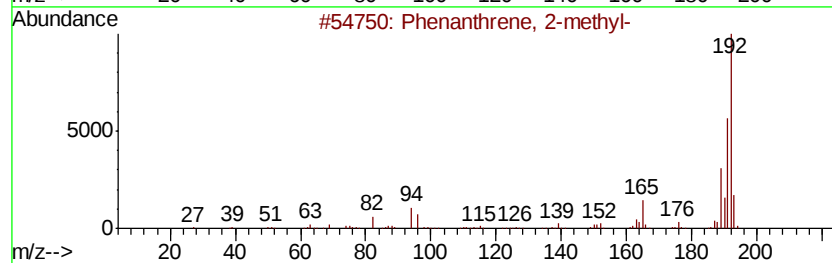
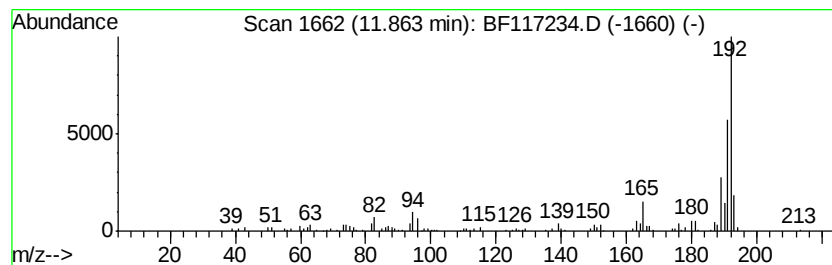
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.86	16.52 ng	188272	Phenanthrene-d10	11.33	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95



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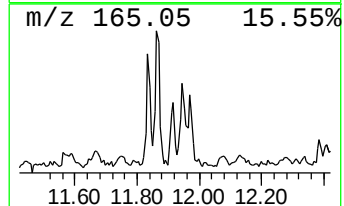
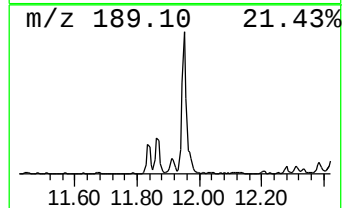
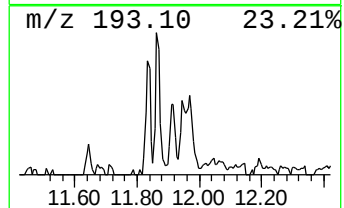
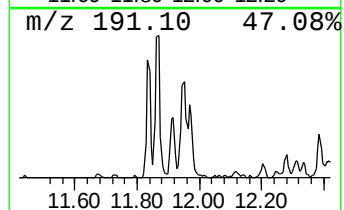
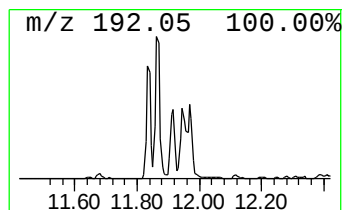
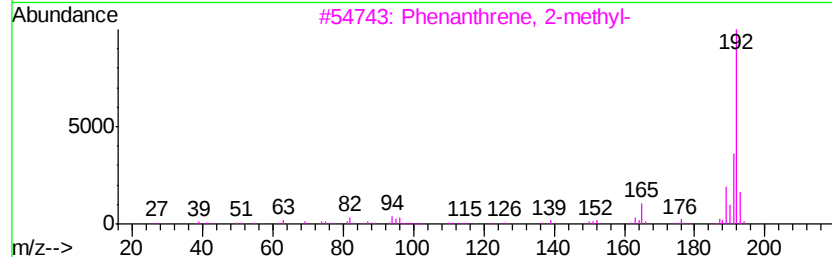
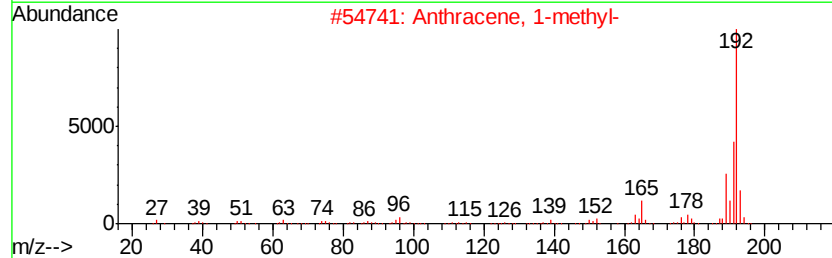
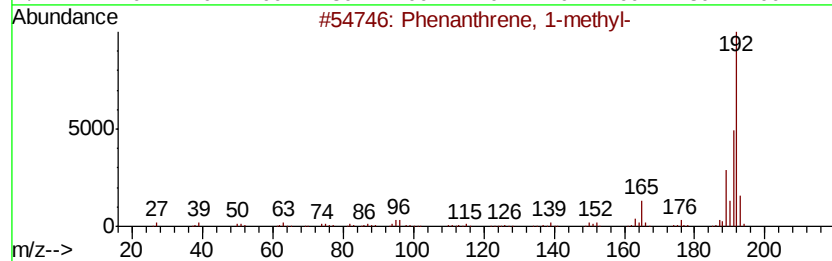
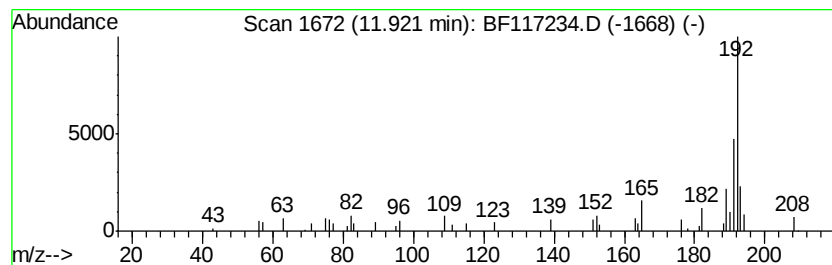
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Anthracene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	6.45 ng	73504	Phenanthrene-d10	11.33

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2			Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4			Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
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 Sample : K4668-12 2X
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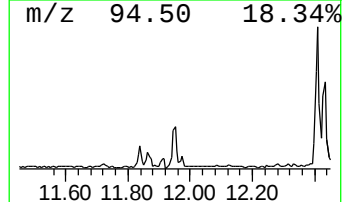
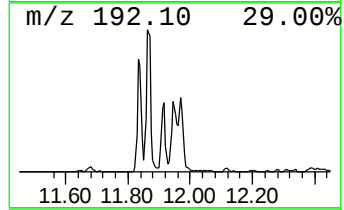
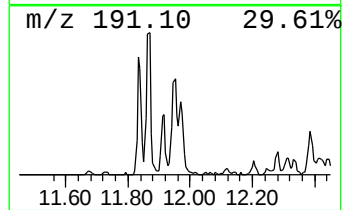
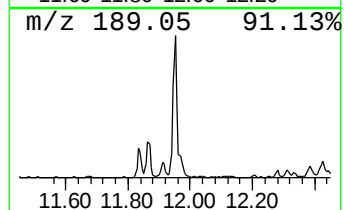
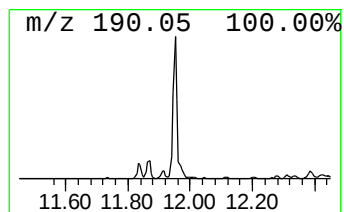
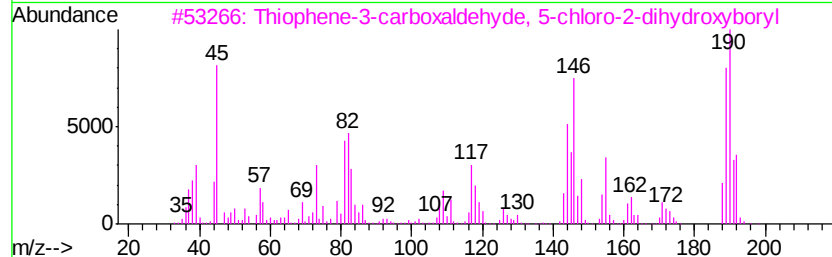
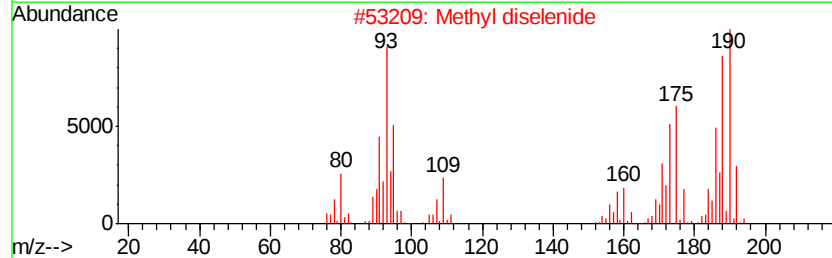
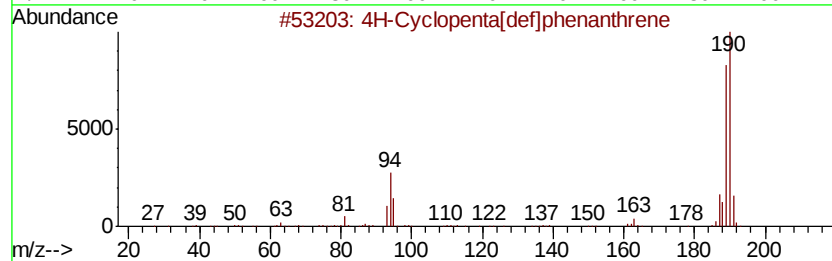
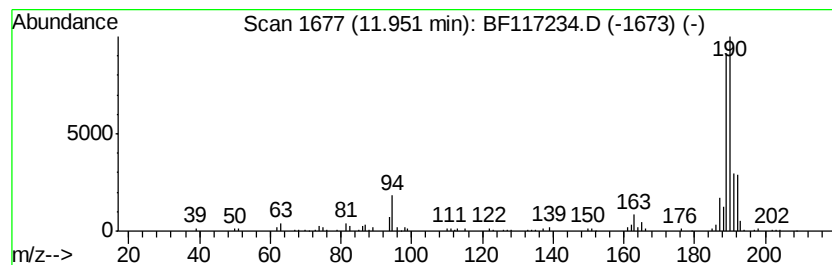
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 ClientSampleId :
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

 Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.95	22.55 ng	257066	Phenanthrene-d10	11.33	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	33



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
Operator : JU
Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

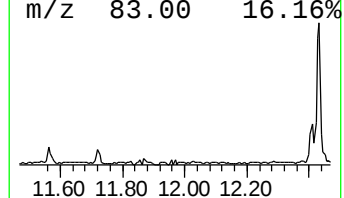
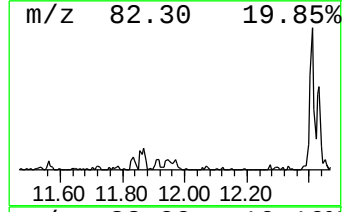
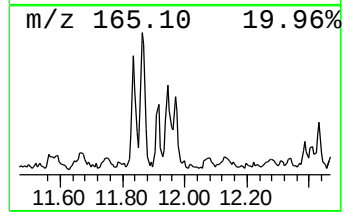
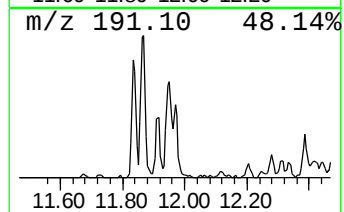
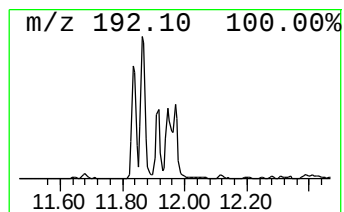
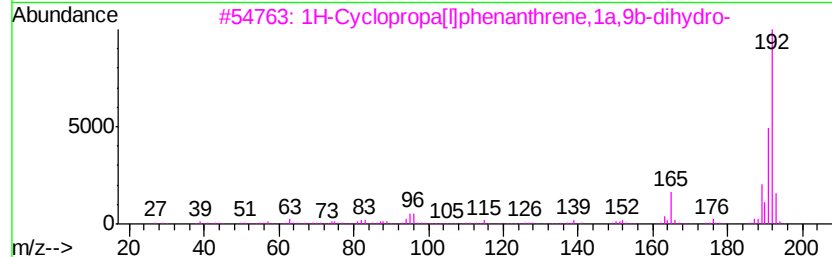
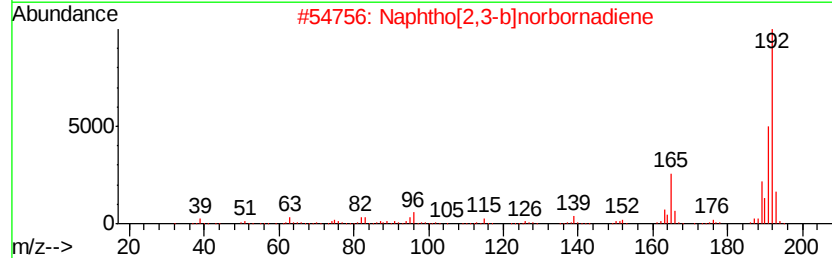
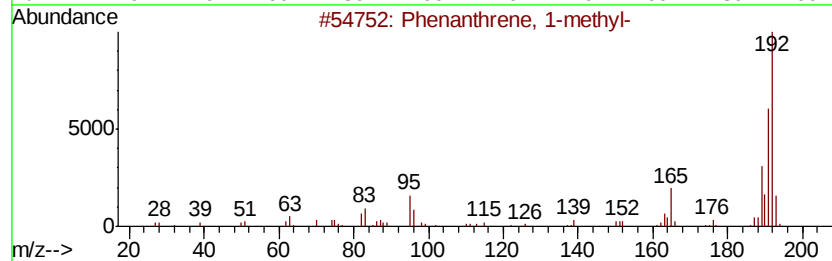
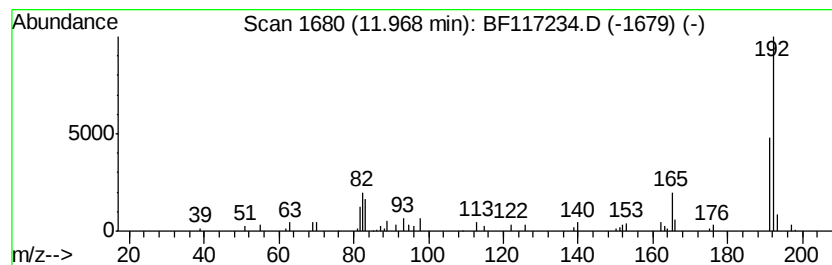
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Naphtho[2,3-b]norbornadiene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	5.88 ng	67045	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	64
2		Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	59
3		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	59
4		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	58
5		1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
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Misc :
ALS Vial : 22 Sample Multiplier: 1

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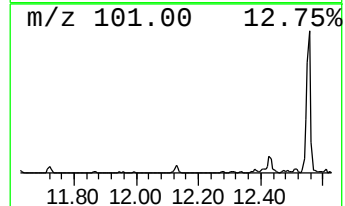
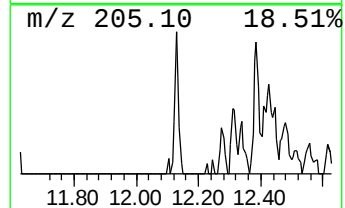
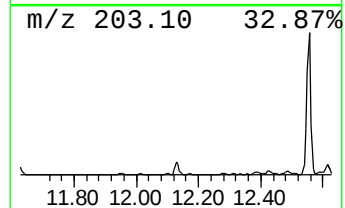
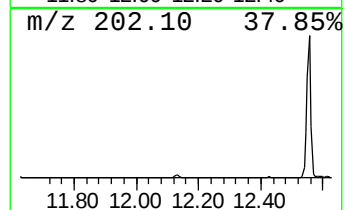
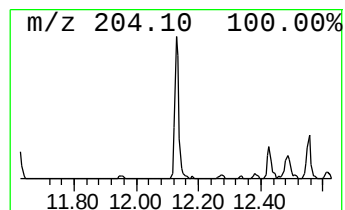
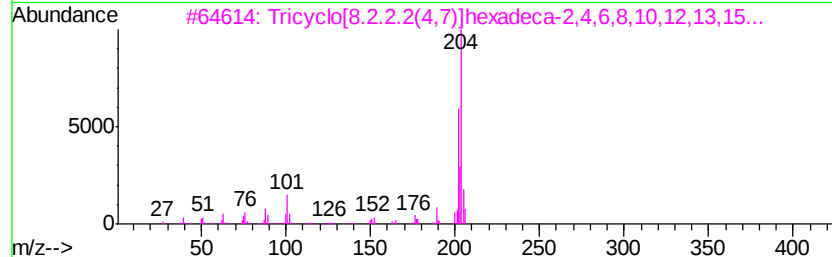
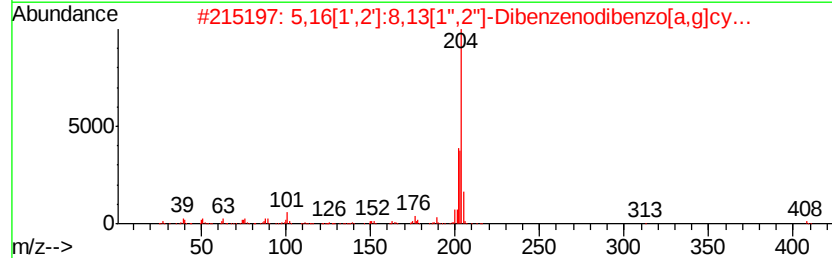
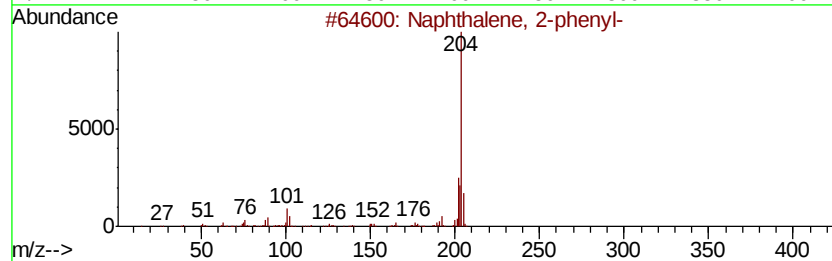
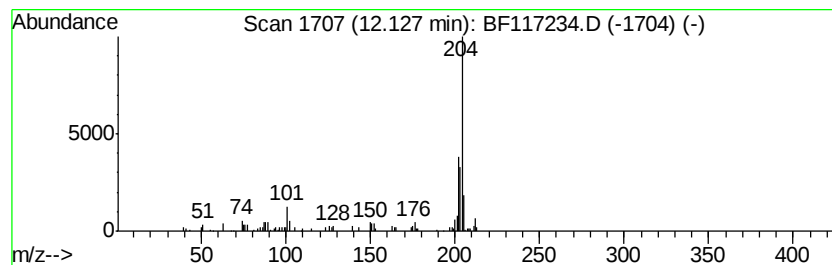
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	6.82 ng	77690	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
2		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
4		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
5		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	52



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
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Operator : JU
Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

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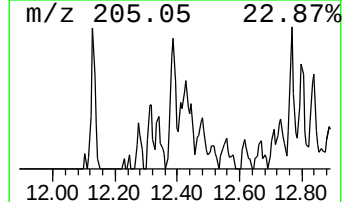
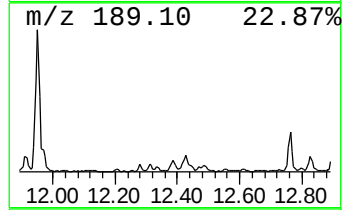
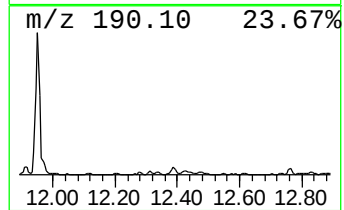
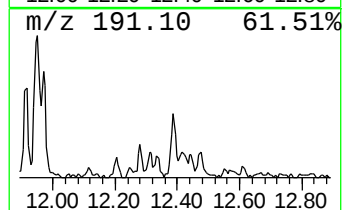
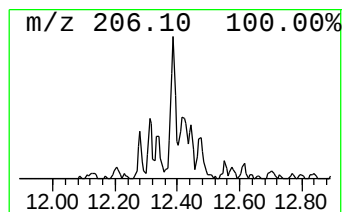
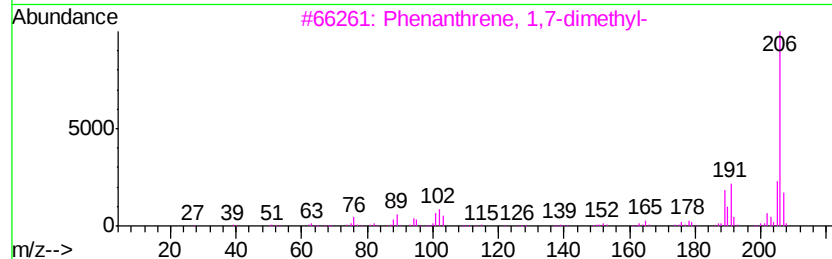
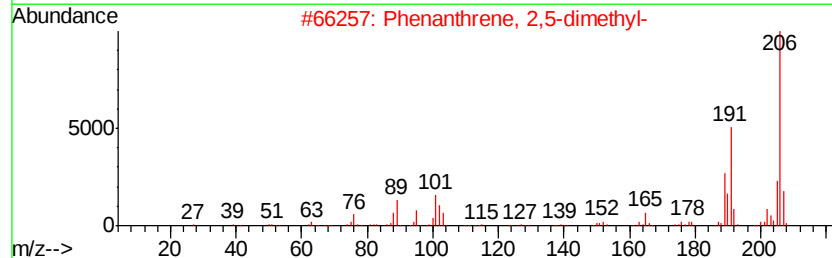
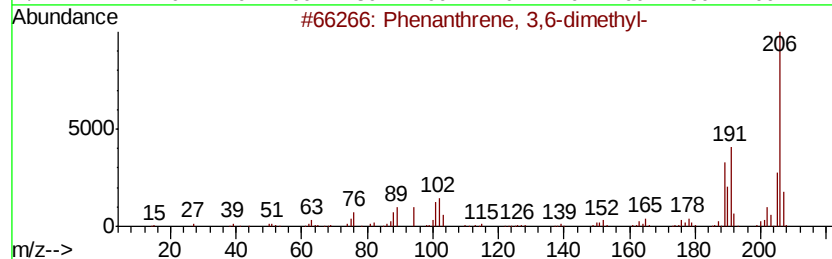
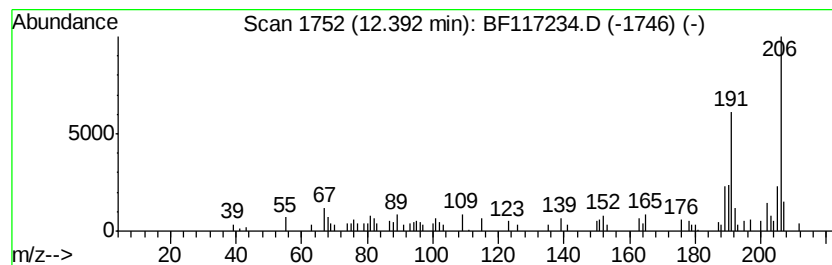
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	6.62 ng	75482	Phenanthrene-d10	11.33

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
3			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
4			Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	83
5			9,10-Dimethylantracene	206	C16H14	000781-43-1	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
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Misc :
ALS Vial : 22 Sample Multiplier: 1

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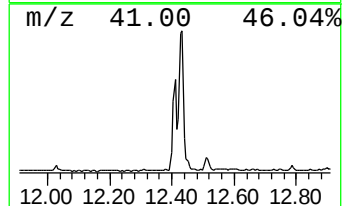
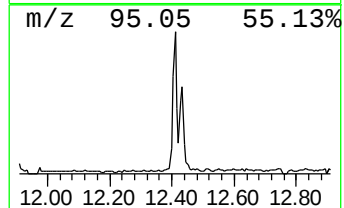
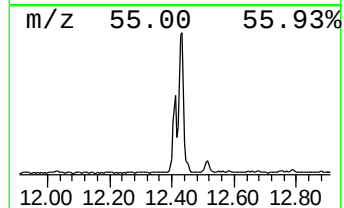
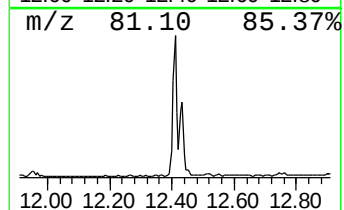
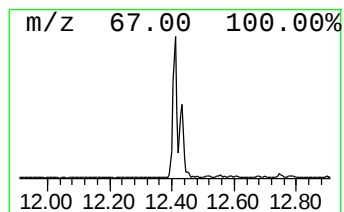
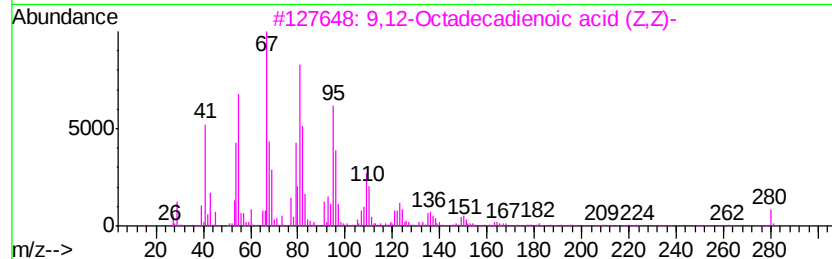
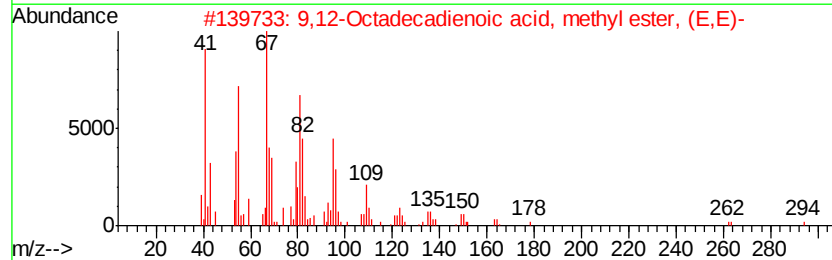
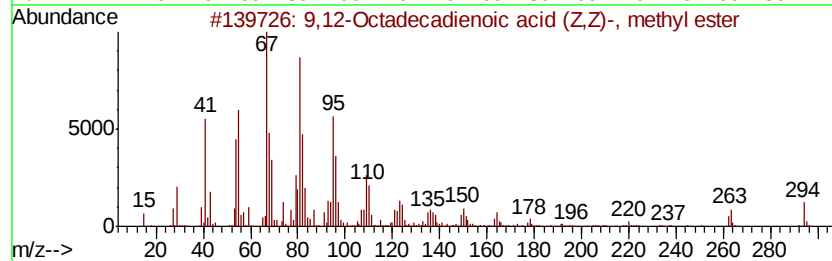
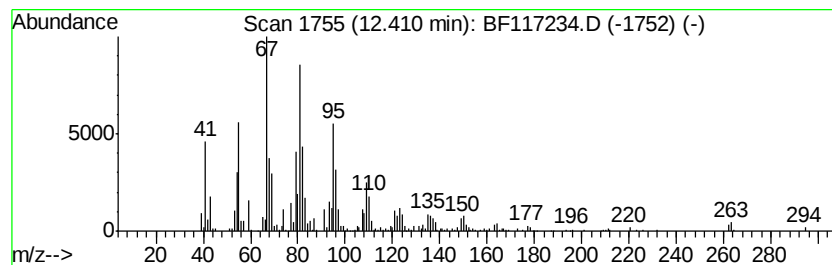
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 9,12-Octadecadienoic acid (... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	60.48 ng	689382	Phenanthrene-d10	11.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
2		9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	96
3		9,12-Octadecadienoic acid (Z,Z)-	280	C18H32O2	000060-33-3	95
4		12,15-Octadecadienoic acid, meth...	294	C19H34O2	057156-97-5	87
5		9,12-Octadecadienoic acid (Z,Z)-...	354	C21H38O4	003443-82-1	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
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Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

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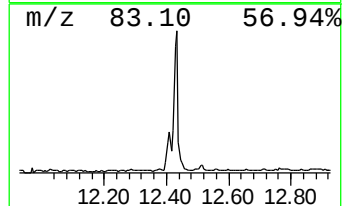
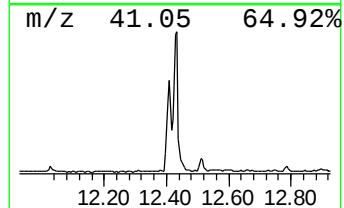
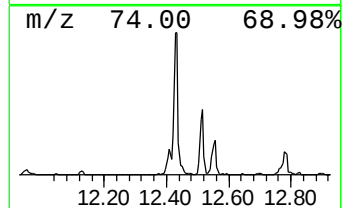
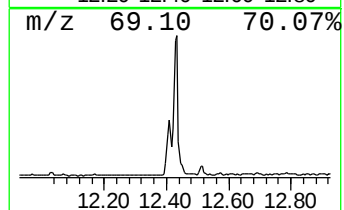
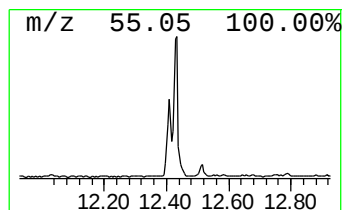
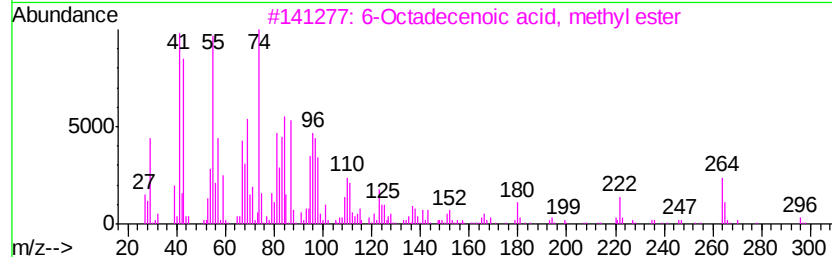
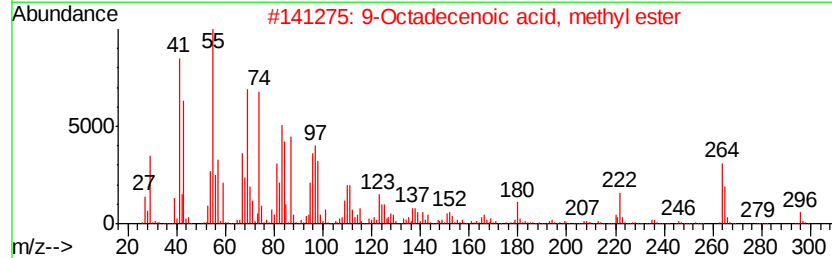
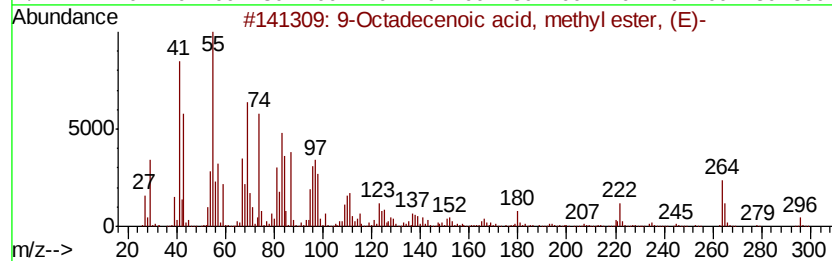
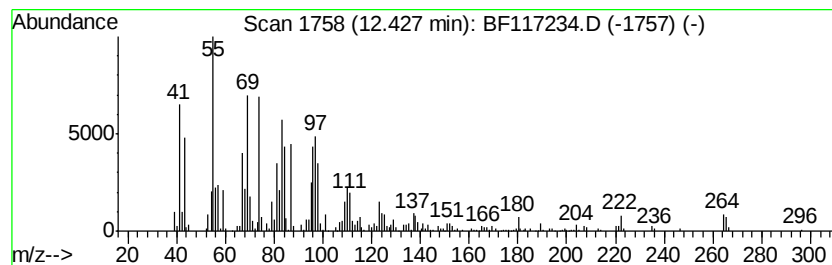
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 9-Octadecenoic acid, methyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	71.41 ng	814011	Phenanthrene-d10	11.33

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9-Octadecenoic acid, methyl este...	296	C19H36O2	001937-62-8	99
2			9-Octadecenoic acid, methyl ester	296	C19H36O2	002462-84-2	99
3			6-Octadecenoic acid, methyl ester	296	C19H36O2	052355-31-4	99
4			6-Octadecenoic acid, methyl este...	296	C19H36O2	002777-58-4	99
5			10-Octadecenoic acid, methyl ester	296	C19H36O2	013481-95-3	99



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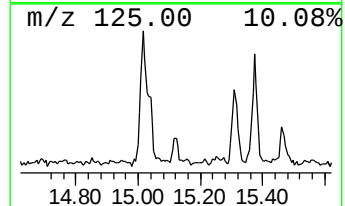
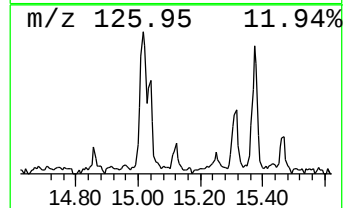
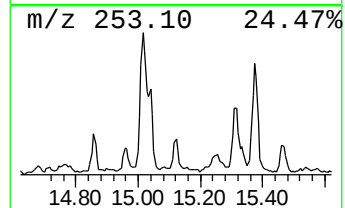
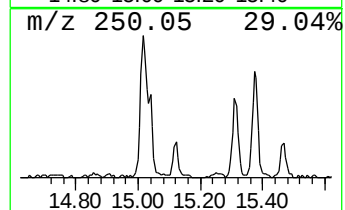
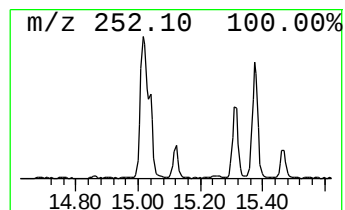
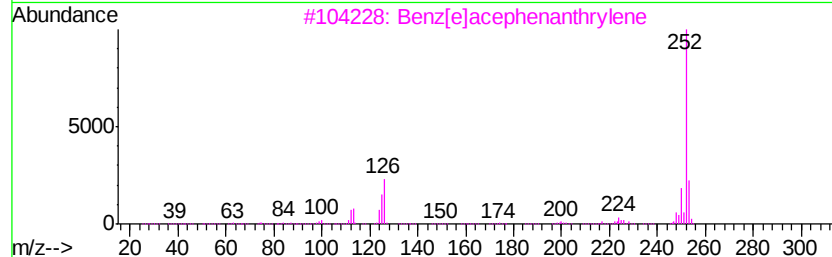
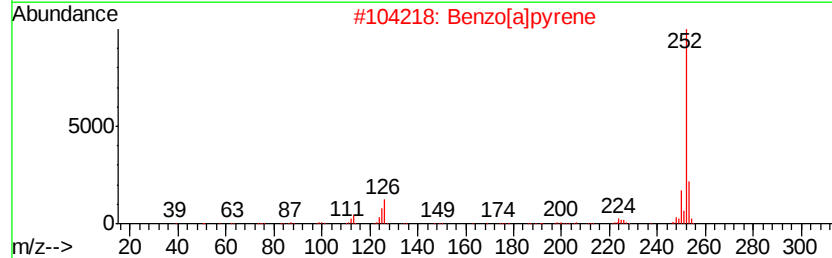
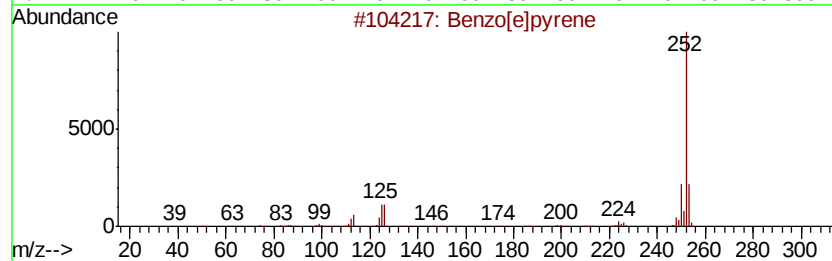
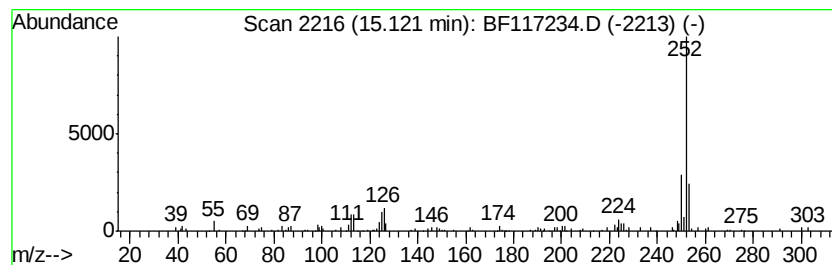
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Benzo[e]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	6.38 ng	72435	Perylene-d12	15.43

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	87
2			Benzo[a]pyrene	252	C20H12	000050-32-8	87
3			Benz[e]acephenanthrylene	252	C20H12	000205-99-2	81
4			Perylene	252	C20H12	000198-55-0	74
5			Benzo[k]fluoranthene	252	C20H12	000207-08-9	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
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ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId :
SU-03-092319

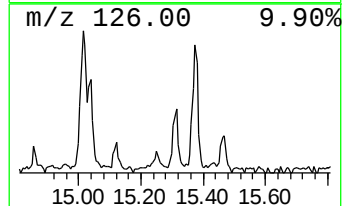
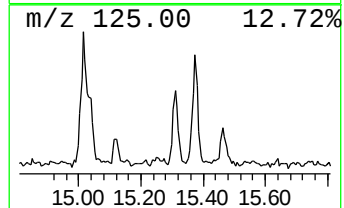
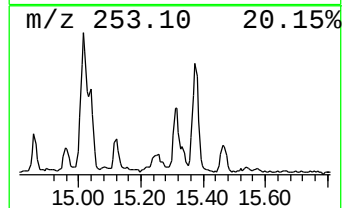
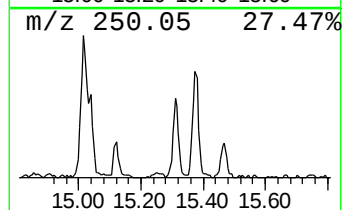
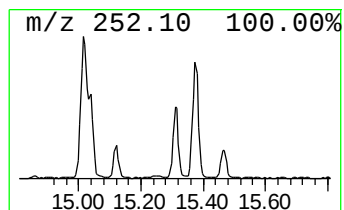
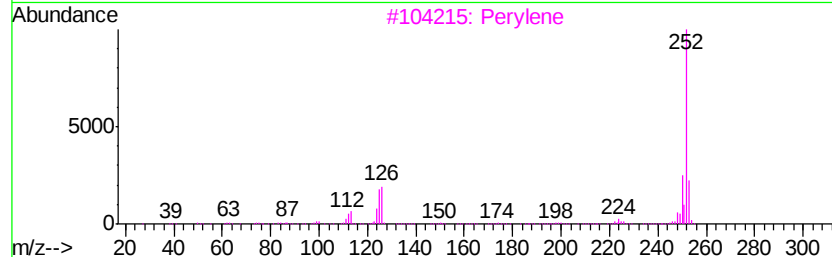
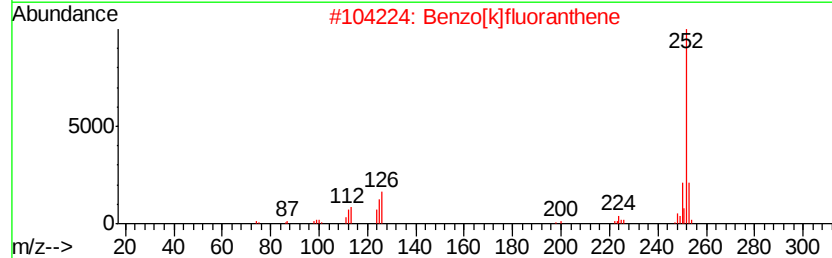
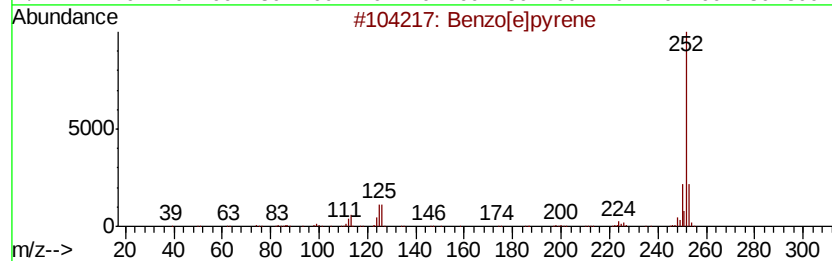
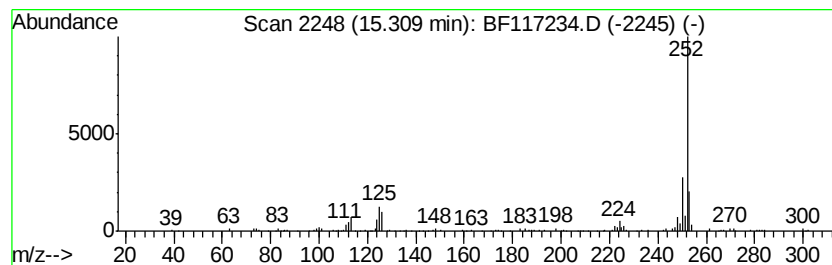
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Perylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.31	14.65 ng	166280	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3		Perylene	252	C20H12	000198-55-0	95
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	93
5		Benzo[a]pyrene	252	C20H12	000050-32-8	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
Operator : JU
Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

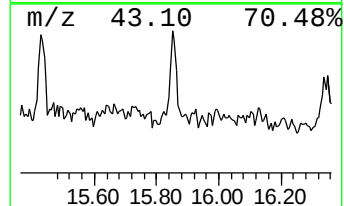
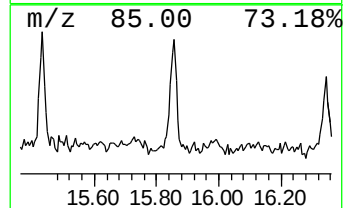
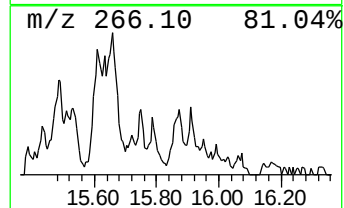
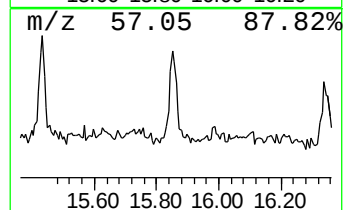
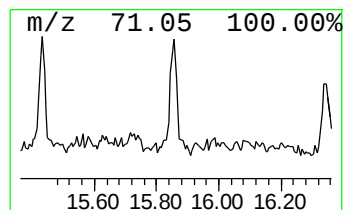
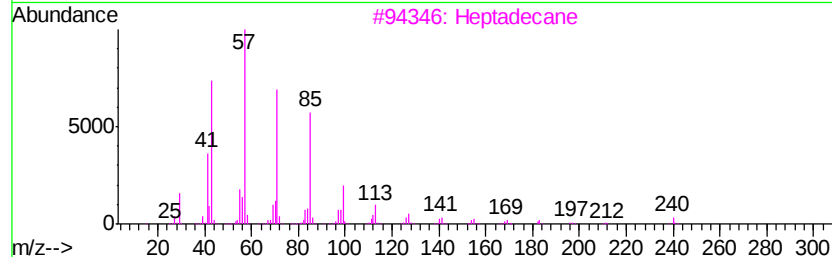
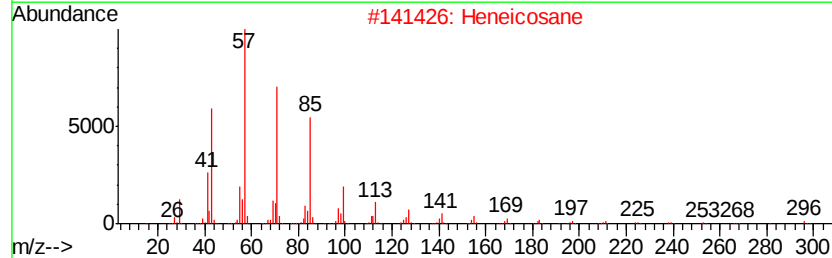
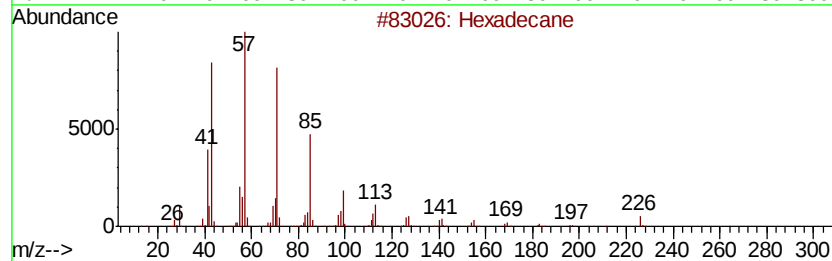
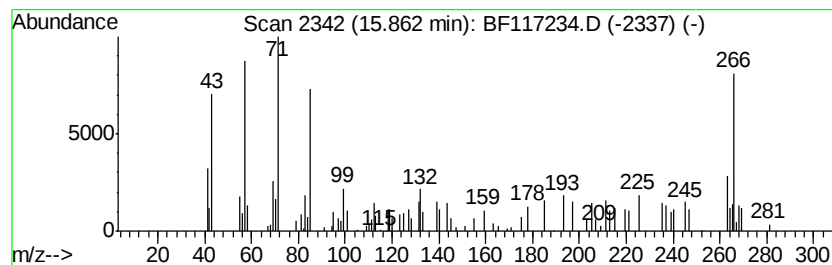
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Hexadecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.86	5.79 ng	65727	Perylene-d12	15.43

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane	226	C16H34	000544-76-3	64
2			Heneicosane	296	C21H44	000629-94-7	58
3			Heptadecane	240	C17H36	000629-78-7	53
4			2-methyloctacosane	408	C29H60	1000376-72-8	53
5			2-Bromotetradecane	276	C14H29Br	074036-95-6	52



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092419\
Data File : BF117234.D
Acq On : 24 Sep 2019 23:40
Operator : JU
Sample : K4668-12 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-092319

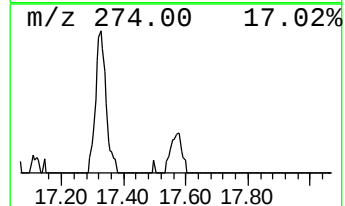
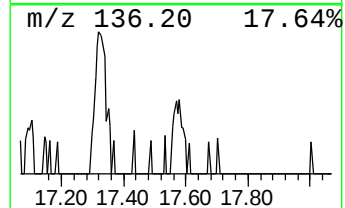
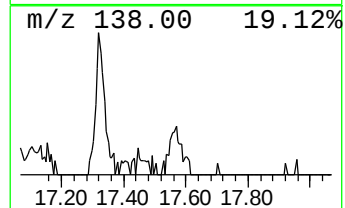
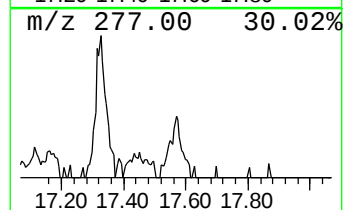
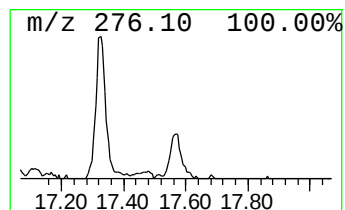
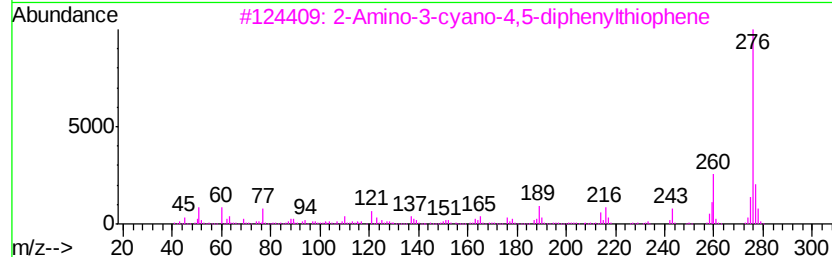
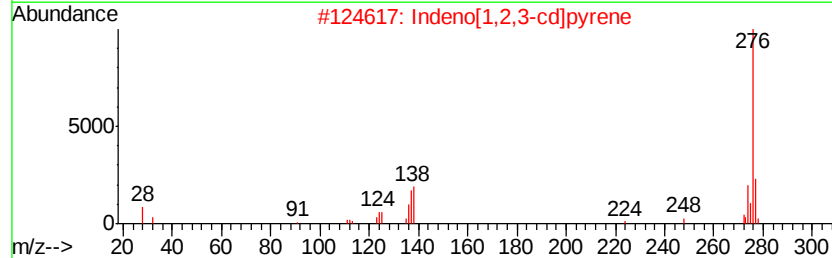
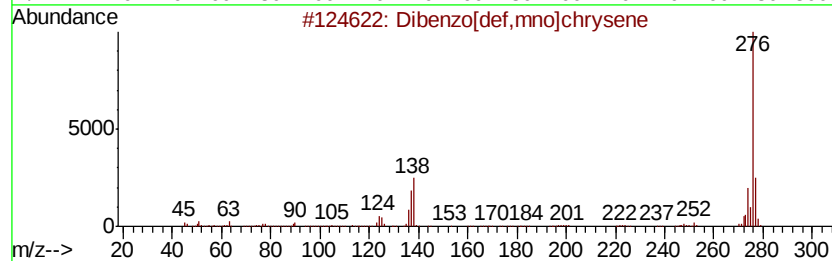
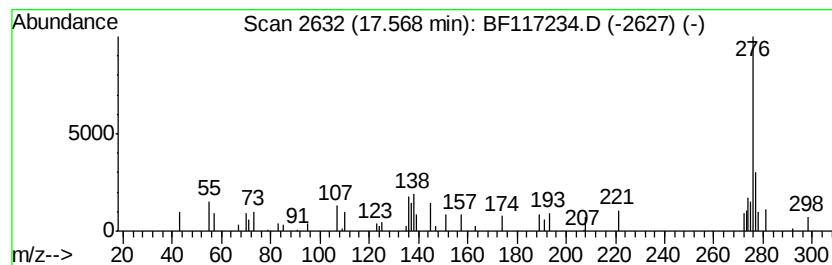
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.57	6.90 ng	78306	Perylene-d12	15.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	59
2		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	59
3		2-Amino-3-cyano-4,5-diphenylthio...	276	C17H12N2S	042160-34-9	58
4		Benzo[ghi]perylene	276	C22H12	000191-24-2	58
5		Benzo[4,5]imidazo[2,1-c][1,2,4]t...	276	C17H16N4	1000302-82-6	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092419\
 Data File : BF117234.D
 Acq On : 24 Sep 2019 23:40
 Operator : JU
 Sample : K4668-12 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-092319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.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
unknown6.59	6.59	40.2	ng	310934	1	6.81	154605	20.0
Naphthalene, 2,3-...	9.51	4.9	ng	63693	3	9.85	260006	20.0
9H-Fluorene, 2-me...	10.95	7.1	ng	81015	4	11.33	227979	20.0
unknown11.19	11.19	5.0	ng	57236	4	11.33	227979	20.0
Dibenzothiophene	11.23	8.9	ng	101845	4	11.33	227979	20.0
Hexadecanoic acid...	11.72	15.5	ng	176480	4	11.33	227979	20.0
Phenanthrene, 2-m...	11.83	11.7	ng	133599	4	11.33	227979	20.0
Phenanthrene, 1-m...	11.86	16.5	ng	188272	4	11.33	227979	20.0
Anthracene, 1-met...	11.92	6.5	ng	73504	4	11.33	227979	20.0
4H-Cyclopenta[def...	11.95	22.6	ng	257066	4	11.33	227979	20.0
Naphtho[2,3-b]nor...	11.97	5.9	ng	67045	4	11.33	227979	20.0
Naphthalene, 2-ph...	12.13	6.8	ng	77690	4	11.33	227979	20.0
Phenanthrene, 3,6...	12.39	6.6	ng	75482	4	11.33	227979	20.0
9,12-Octadecadien...	12.41	60.5	ng	689382	4	11.33	227979	20.0
9-Octadecenoic ac...	12.43	71.4	ng	814011	4	11.33	227979	20.0
Benzo[e]pyrene	15.12	6.4	ng	72435	6	15.43	226946	20.0
Perylene	15.31	14.7	ng	166280	6	15.43	226946	20.0
Hexadecane	15.86	5.8	ng	65727	6	15.43	226946	20.0
Dibenzo[def,mno]c...	17.57	6.9	ng	78306	6	15.43	226946	20.0