

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF083119\
 Data File : BF116694.D
 Acq On : 31 Aug 2019 12:56
 Operator : HP/JU
 Sample : K4618-07 20X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-20-22

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-BF083019.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	5.451	564	572	578	rBV	113995	106858	4.67%	0.346%
2	6.463	740	744	750	rBV	128330	120279	5.26%	0.389%
3	6.610	766	769	772	rBV	148312	116120	5.08%	0.376%
4	6.845	805	809	812	rBV	825161	628887	27.50%	2.036%
5	6.998	832	835	839	rBV	100555	84638	3.70%	0.274%
6	7.398	898	903	908	rBV	87377	74644	3.26%	0.242%
7	8.128	1023	1027	1030	rBV	1101654	874366	38.23%	2.831%
8	9.198	1206	1209	1212	rBV	156778	114832	5.02%	0.372%
9	9.880	1321	1325	1328	rBV	1224442	980943	42.89%	3.176%
10	10.657	1454	1457	1462	rBV3	60101	58181	2.54%	0.188%
11	11.233	1547	1555	1558	rBV5	42956	57246	2.50%	0.185%
12	11.363	1573	1577	1579	rBV	1077452	1010633	44.19%	3.272%
13	11.380	1579	1580	1583	rVV	124578	89803	3.93%	0.291%
14	11.863	1658	1662	1664	rVV	144868	130500	5.71%	0.423%
15	11.886	1664	1666	1670	rVB	201910	171934	7.52%	0.557%
16	11.933	1671	1674	1677	rBV	89172	82596	3.61%	0.267%
17	11.968	1677	1680	1683	rBV3	71099	70782	3.09%	0.229%
18	12.227	1721	1724	1728	rVB	53628	50931	2.23%	0.165%
19	12.304	1732	1737	1740	rBV	144839	141584	6.19%	0.458%
20	12.333	1740	1742	1744	rBV	114656	96694	4.23%	0.313%
21	12.357	1744	1746	1750	rVB	91133	76751	3.36%	0.249%
22	12.410	1751	1755	1758	rBV	130525	150563	6.58%	0.487%
23	12.451	1758	1762	1766	rVB2	116605	166577	7.28%	0.539%
24	12.492	1766	1769	1773	rBV	100655	101764	4.45%	0.329%
25	12.568	1779	1782	1785	rBV2	154266	147155	6.43%	0.476%
26	12.686	1800	1802	1806	rVB2	74201	66996	2.93%	0.217%
27	12.727	1806	1809	1811	rBV3	56559	60429	2.64%	0.196%
28	12.751	1811	1813	1816	rVB	71104	54651	2.39%	0.177%
29	12.798	1816	1821	1823	rBV	435490	417608	18.26%	1.352%
30	12.821	1823	1825	1828	rVB2	131052	106582	4.66%	0.345%
31	12.857	1828	1831	1834	rVB2	96173	106908	4.67%	0.346%
32	12.904	1834	1839	1842	rBV4	59752	100941	4.41%	0.327%
33	12.933	1842	1844	1853	rVB3	191600	267375	11.69%	0.866%
34	13.015	1854	1858	1865	rBV3	137700	212387	9.29%	0.688%

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Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.068	1865	1867	1869	rBV2	62350	56953	2.49%	0.184%
36	13.098	1869	1872	1874	rBV3	65865	78363	3.43%	0.254%
37	13.121	1874	1876	1880	rVB	247167	239672	10.48%	0.776%
38	13.157	1880	1882	1884	rBV2	47491	47980	2.10%	0.155%
39	13.192	1884	1888	1890	rBV2	252279	250157	10.94%	0.810%
40	13.227	1890	1894	1897	rBV	507046	466613	20.40%	1.511%
41	13.257	1897	1899	1902	rVV	57557	70804	3.10%	0.229%
42	13.286	1902	1904	1908	rVB2	61193	57655	2.52%	0.187%
43	13.321	1908	1910	1912	rVB	102033	68786	3.01%	0.223%
44	13.351	1912	1915	1920	rBV4	102142	144531	6.32%	0.468%
45	13.427	1926	1928	1933	rVB4	72782	115963	5.07%	0.375%
46	13.480	1933	1937	1939	rBV3	83954	106695	4.66%	0.345%
47	13.527	1941	1945	1947	rBV2	233271	292000	12.77%	0.945%
48	13.557	1947	1950	1955	rVB	315052	446226	19.51%	1.445%
49	13.610	1955	1959	1961	rBV3	173887	254788	11.14%	0.825%
50	13.633	1961	1963	1964	rBV	153551	117152	5.12%	0.379%
51	13.698	1972	1974	1977	rVB	95077	74734	3.27%	0.242%
52	13.745	1977	1982	1985	rBV4	156245	300595	13.14%	0.973%
53	13.815	1991	1994	1996	rBV2	48966	54718	2.39%	0.177%
54	13.845	1996	1999	2002	rVV3	123308	137715	6.02%	0.446%
55	13.933	2006	2014	2016	rBV3	172272	351707	15.38%	1.139%
56	13.992	2016	2024	2027	rVV2	1183502	2287144	100.00%	7.405%
57	14.021	2027	2029	2031	rVV	1354701	1084992	47.44%	3.513%
58	14.045	2031	2033	2037	rVV	184547	223287	9.76%	0.723%
59	14.080	2037	2039	2042	rVB2	222305	174086	7.61%	0.564%
60	14.162	2051	2053	2059	rVB4	163595	188455	8.24%	0.610%
61	14.210	2059	2061	2063	rBV2	56523	49924	2.18%	0.162%
62	14.280	2069	2073	2076	rBV4	105440	139453	6.10%	0.452%
63	14.345	2081	2084	2086	rBV	335490	393647	17.21%	1.275%
64	14.386	2086	2091	2093	rVV	1268442	1701641	74.40%	5.510%
65	14.415	2093	2096	2099	rVV	988021	897677	39.25%	2.907%
66	14.468	2099	2105	2108	rVV5	393507	650761	28.45%	2.107%
67	14.504	2108	2111	2113	rVV	225320	233065	10.19%	0.755%
68	14.527	2113	2115	2118	rVV	251723	230763	10.09%	0.747%
69	14.574	2120	2123	2126	rVV	198278	201696	8.82%	0.653%
70	14.621	2129	2131	2134	rBV3	65702	69153	3.02%	0.224%
71	14.668	2138	2139	2142	rVV2	64408	55381	2.42%	0.179%

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72	14.715	2143	2147	2153	rVV	349673	679067	29.69%	2.199%
73	14.768	2153	2156	2158	rVV2	486154	516624	22.59%	1.673%
74	14.798	2158	2161	2165	rVB2	358675	433312	18.95%	1.403%
75	14.874	2171	2174	2177	rVB2	173754	176459	7.72%	0.571%
76	14.927	2179	2183	2189	rVB3	336962	504600	22.06%	1.634%
77	15.027	2195	2200	2206	rVV	471002	623306	27.25%	2.018%
78	15.109	2210	2214	2220	rVB3	186508	389996	17.05%	1.263%
79	15.327	2247	2251	2256	rVB	845163	1002750	43.84%	3.247%
80	15.386	2256	2261	2268	rVB	606813	798304	34.90%	2.585%
81	15.451	2268	2272	2275	rBV	654477	774665	33.87%	2.508%
82	15.486	2275	2278	2284	rVB4	215399	403944	17.66%	1.308%
83	15.621	2297	2301	2304	rBV3	136081	236220	10.33%	0.765%
84	15.768	2322	2326	2330	rBV	418673	607437	26.56%	1.967%
85	15.809	2330	2333	2341	rVB	499118	625583	27.35%	2.026%
86	15.886	2341	2346	2349	rBV2	186082	312821	13.68%	1.013%
87	15.921	2349	2352	2356	rVB2	163589	203695	8.91%	0.660%
88	15.968	2357	2360	2363	rVB2	66108	85955	3.76%	0.278%
89	16.051	2370	2374	2377	rVB2	93417	110699	4.84%	0.358%
90	16.151	2388	2391	2394	rBV2	69129	76652	3.35%	0.248%
91	16.256	2405	2409	2413	rBV2	165663	240956	10.54%	0.780%
92	16.709	2482	2486	2490	rVB2	91199	139784	6.11%	0.453%
93	16.898	2513	2518	2525	rVB2	279939	618506	27.04%	2.003%
94	17.074	2544	2548	2552	rVB	101371	158239	6.92%	0.512%
95	17.127	2552	2557	2563	rBV	114475	194484	8.50%	0.630%
96	17.333	2587	2592	2601	rVB	299861	640263	27.99%	2.073%
97	17.703	2648	2655	2657	rBV3	102093	220272	9.63%	0.713%
98	17.821	2671	2675	2680	rBV5	46214	87154	3.81%	0.282%
99	17.986	2699	2703	2714	rVB5	72650	164280	7.18%	0.532%
100	18.098	2716	2722	2732	rVB	175407	444681	19.44%	1.440%

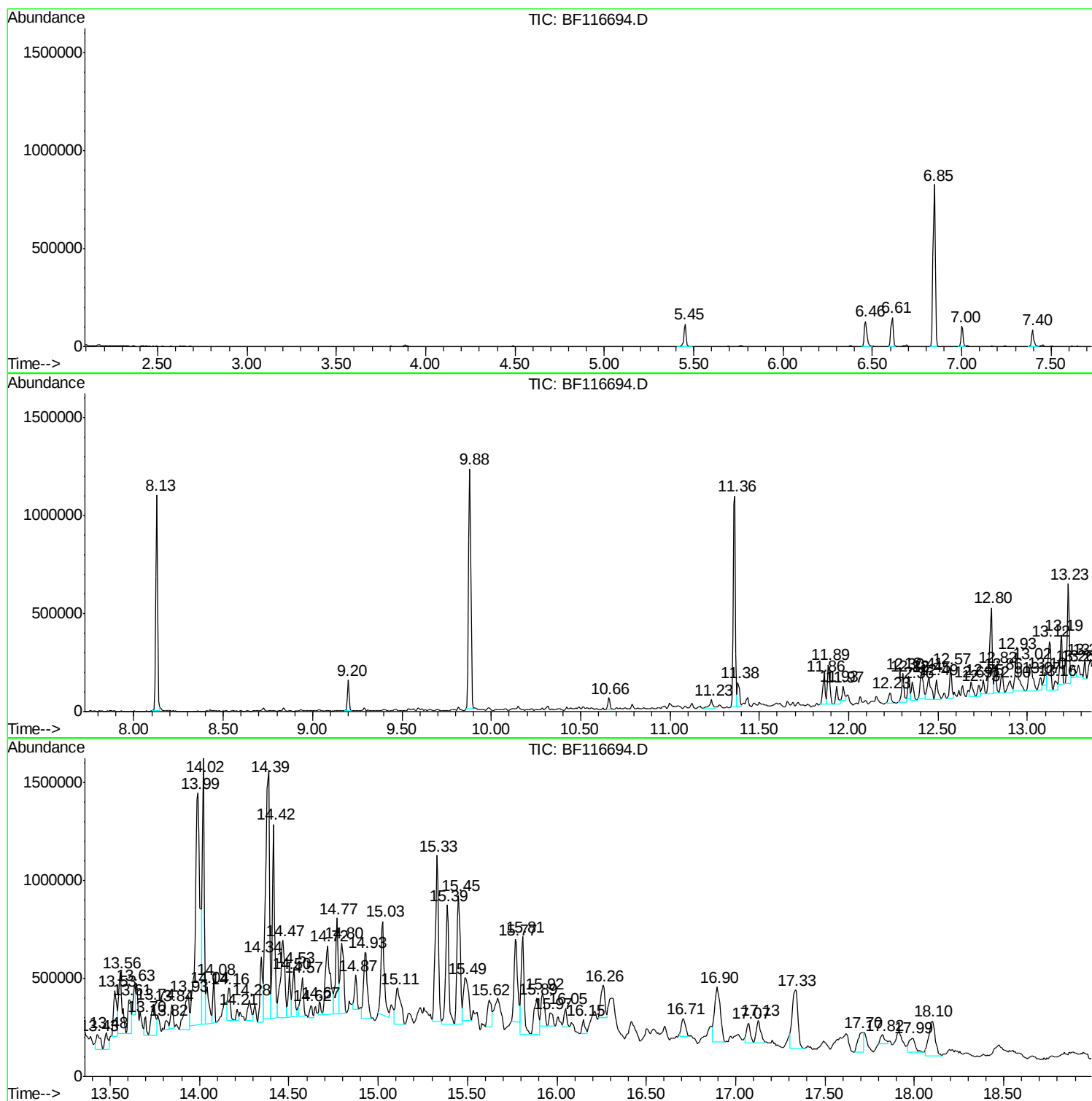
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Instrument :
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ClientSampleId :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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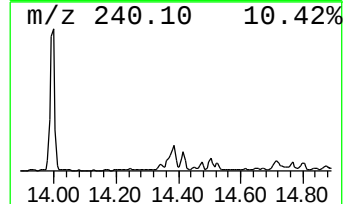
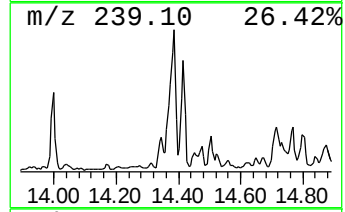
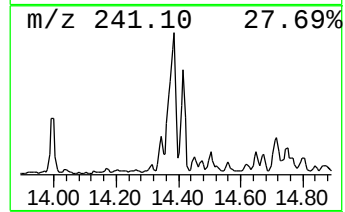
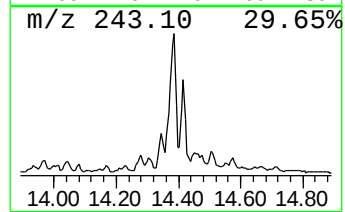
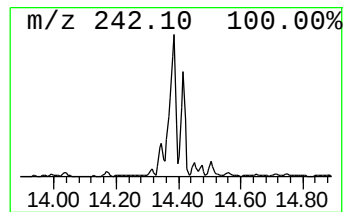
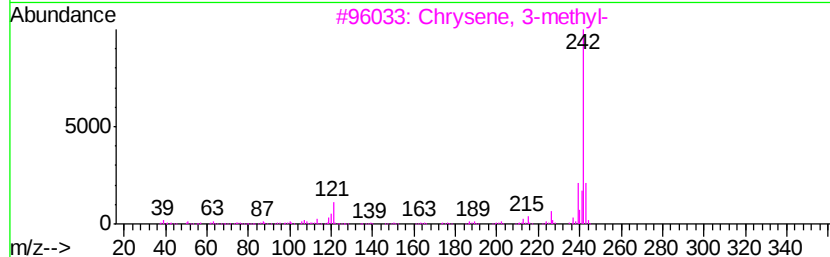
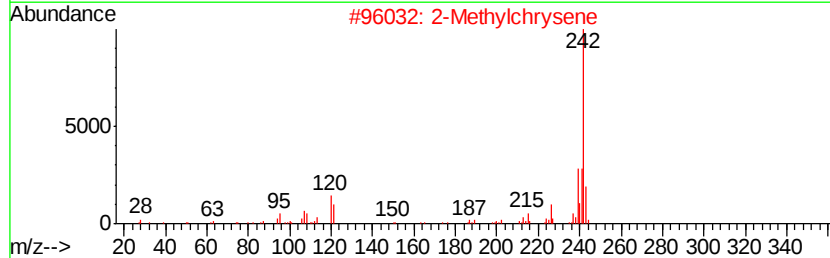
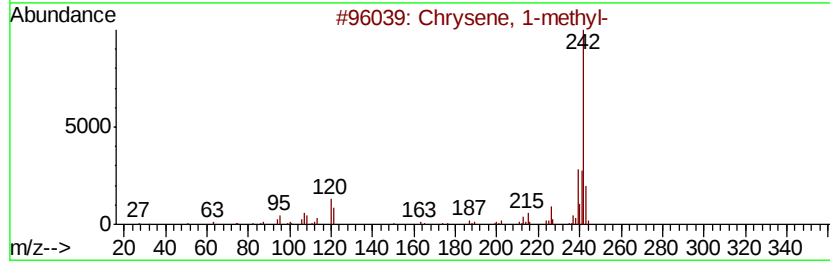
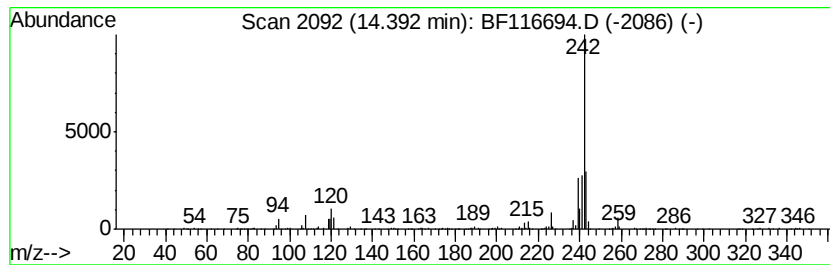
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Chrysene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.39	14.88 ng	1701640	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	96
2		2-Methylchrysene	242	C19H14	003351-32-4	96
3		Chrysene, 3-methyl-	242	C19H14	003351-31-3	95
4		Benz[<i>a</i>]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
5		Triphenylene, 2-methyl-	242	C19H14	001705-84-6	95



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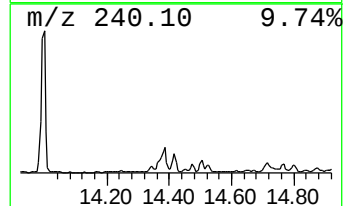
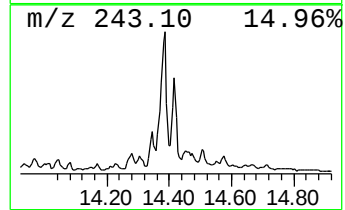
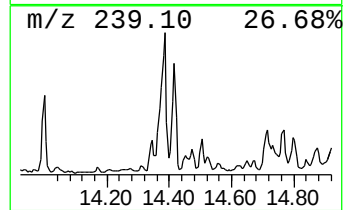
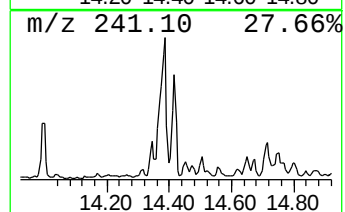
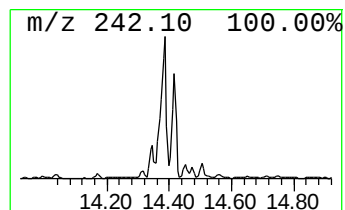
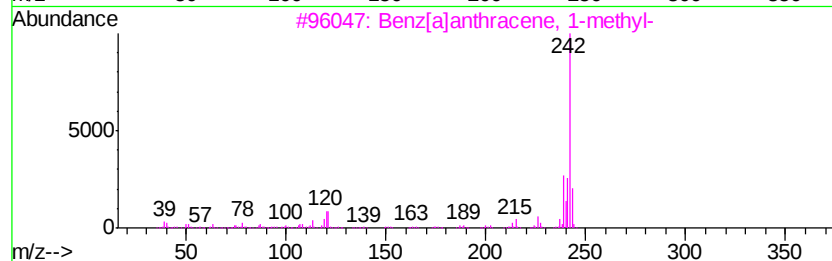
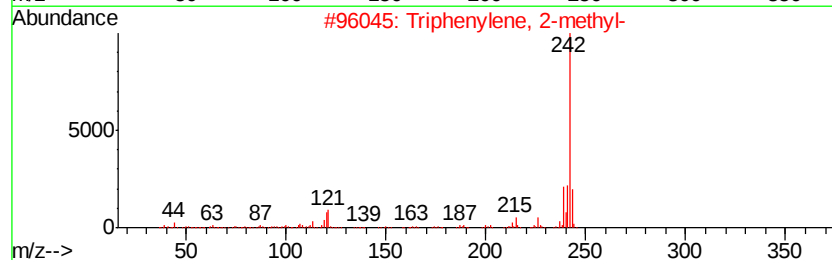
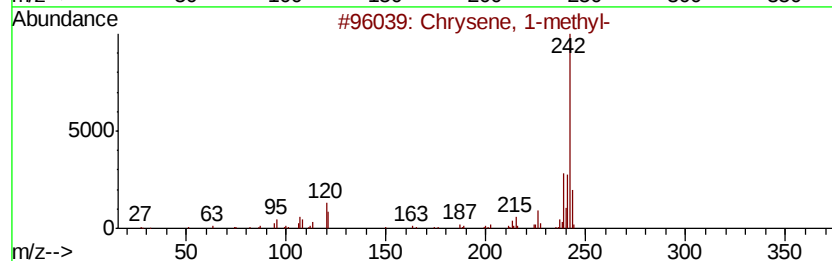
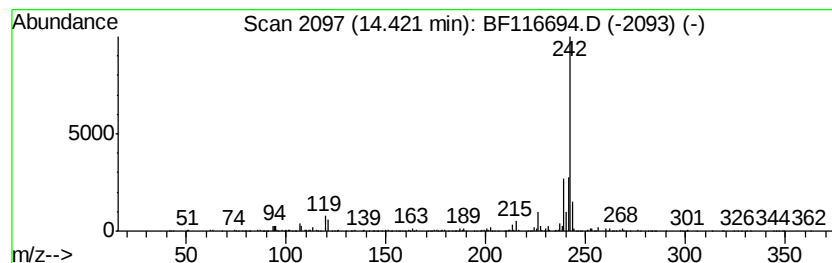
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TIC Integration Parameters: LSCINT.P

Peak Number 2 Triphenylene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.42	7.85 ng	897677	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	96
2		Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
3		Benz[<i>a</i>]anthracene, 1-methyl-	242	C19H14	002498-77-3	93
4		Benz[<i>a</i>]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
5		Chrysene, 5-methyl-	242	C19H14	003697-24-3	81



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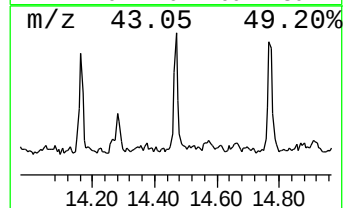
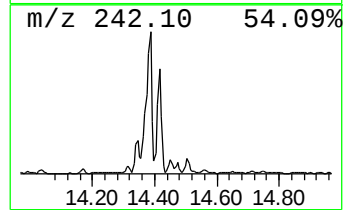
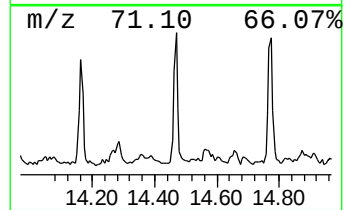
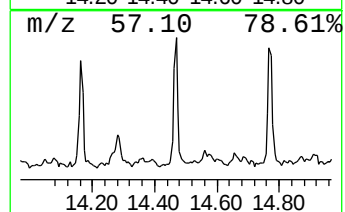
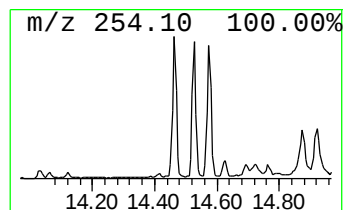
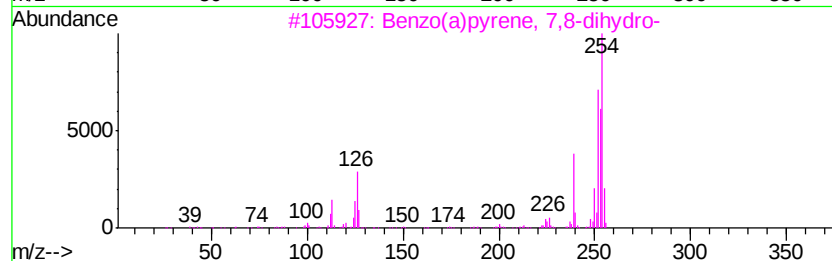
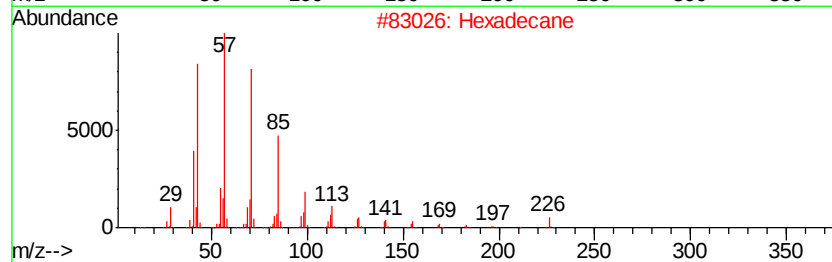
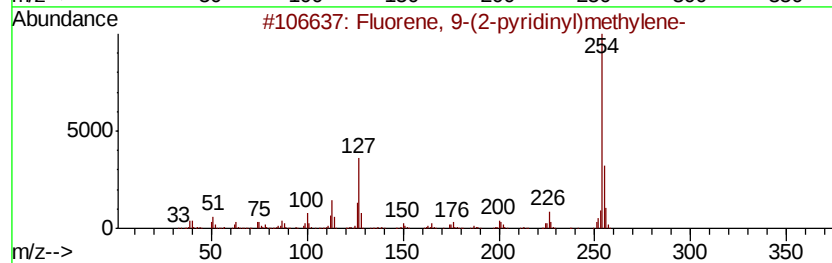
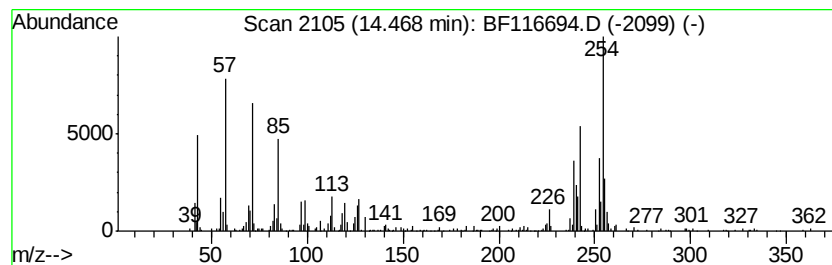
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 TIC Integration Parameters: LSCINT.P

 Peak Number 3 unknown14.47 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.47	5.69 ng	650761	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Fluorene, 9-(2-pyridinyl)methylene-	255	C19H13N	002871-27-4	49
2		Hexadecane	226	C16H34	000544-76-3	45
3		Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	38
4		Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	30
5		2,2'-Binaphthalene	254	C20H14	000612-78-2	30



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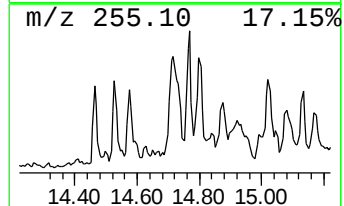
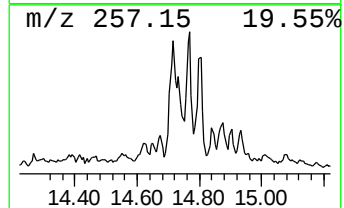
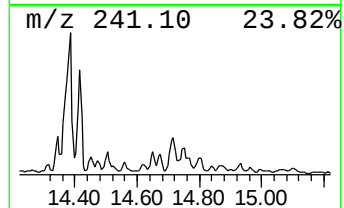
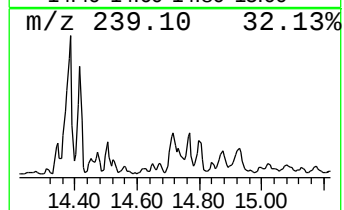
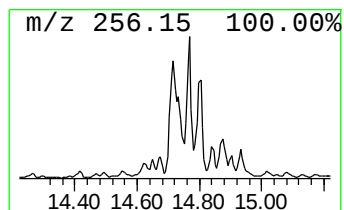
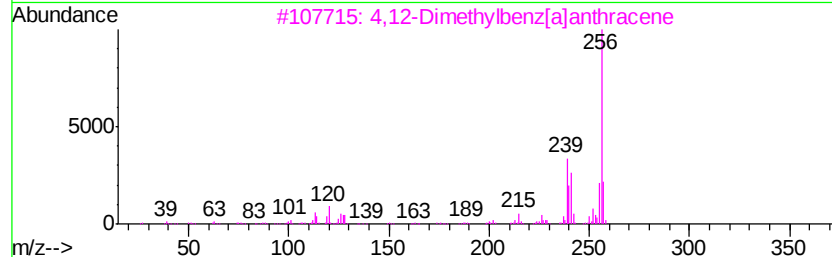
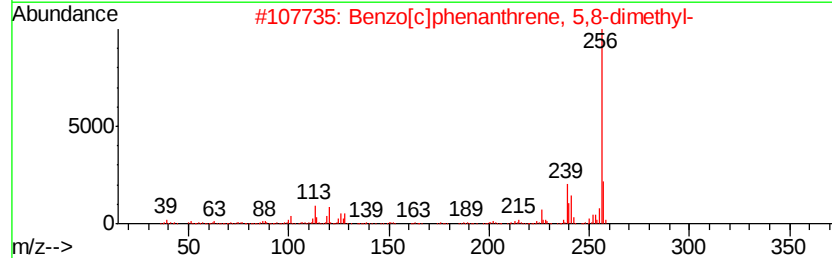
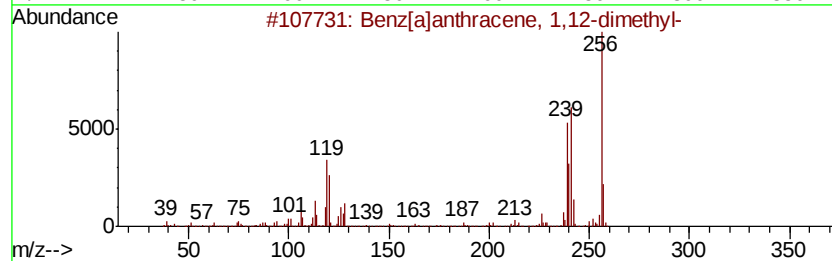
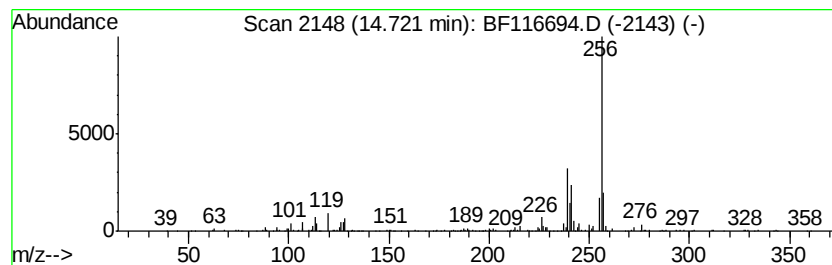
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Benz[a]anthracene, 1,12-dim... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.72	5.94 ng	679067	Chrysene-d12	14.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz[a]anthracene, 1,12-dimethyl-	256	C20H16	000313-74-6	95
2		Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	93
3		4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	93
4		Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	93
5		5,12-Dimethylbenz[a]anthracene	256	C20H16	021297-22-3	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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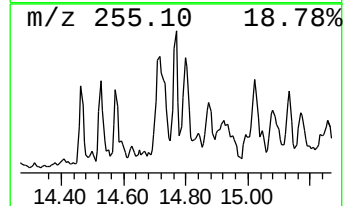
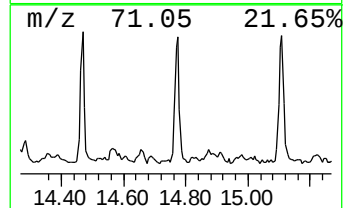
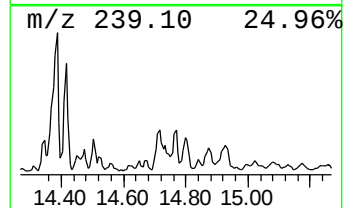
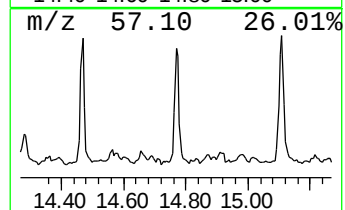
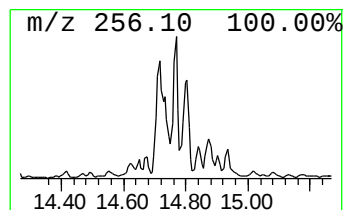
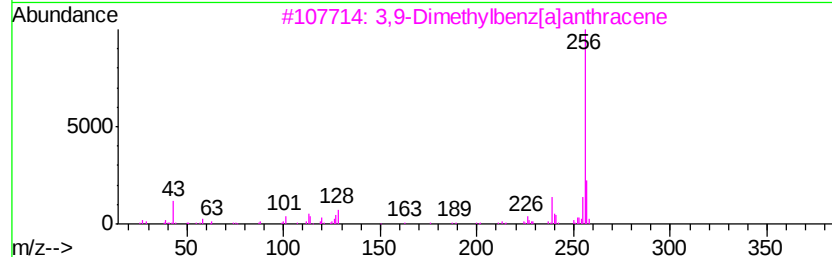
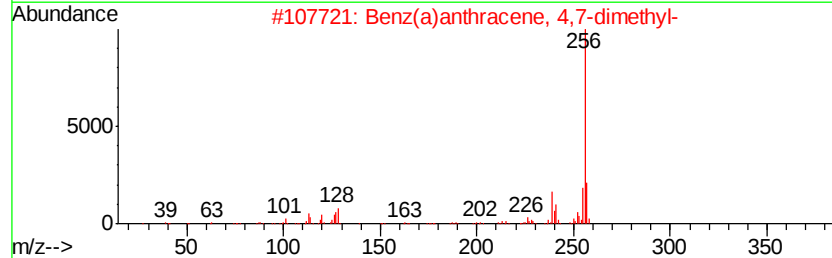
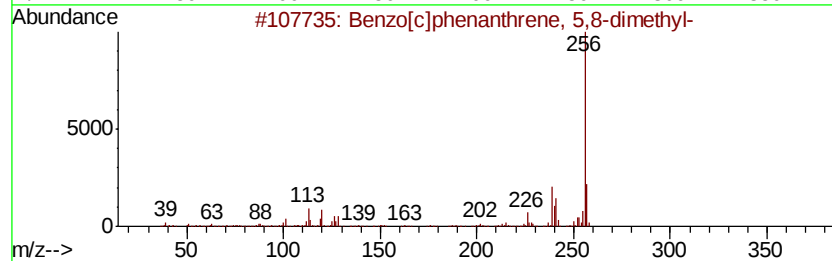
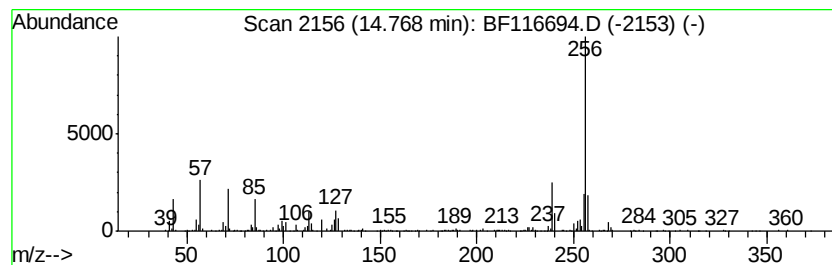
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Benzo[c]phenanthrene, 5,8-d... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.77	13.34 ng	516624	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	93
2		Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	93
3		3,9-Dimethylbenz[a]anthracene	256	C20H16	000316-51-8	91
4		5,12-Dimethylbenz[a]anthracene	256	C20H16	021297-22-3	81
5		Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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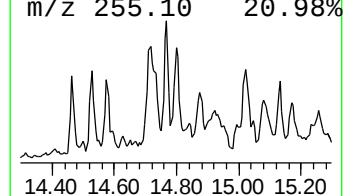
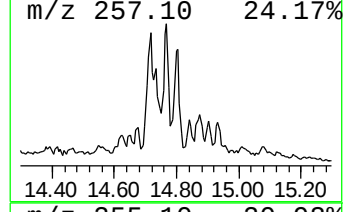
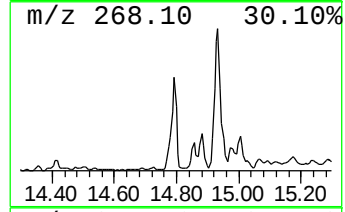
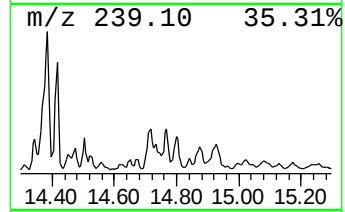
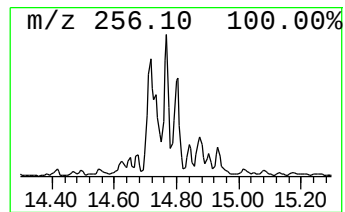
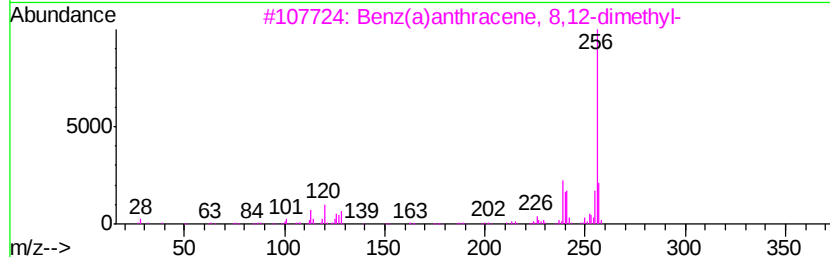
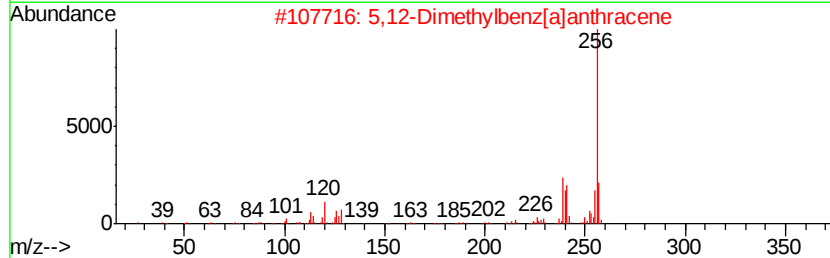
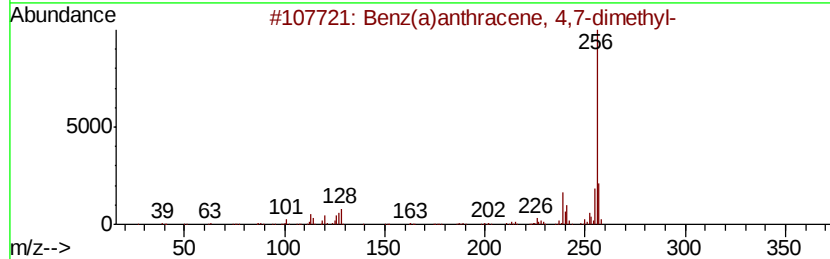
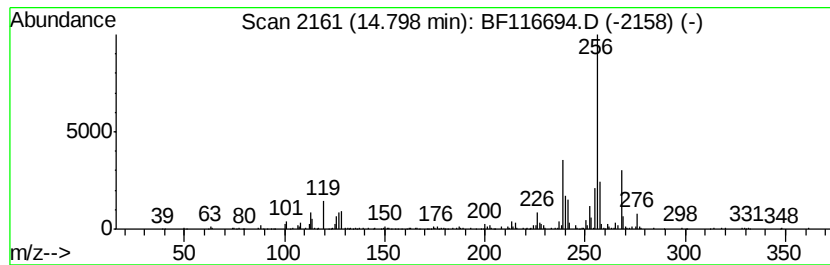
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Benz(a)anthracene, 4,7-dime... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.80	11.19 ng	433312	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	93
2		5,12-Dimethylbenz[a]anthracene	256	C20H16	021297-22-3	93
3		Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	93
4		Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	91
5		4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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Acq On : 31 Aug 2019 12:56
Operator : HP/JU
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Misc :
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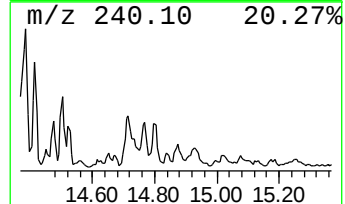
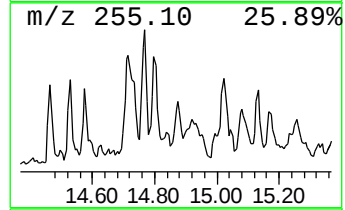
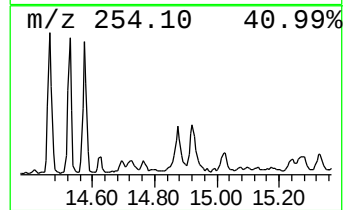
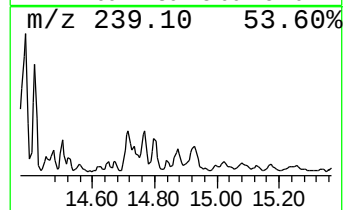
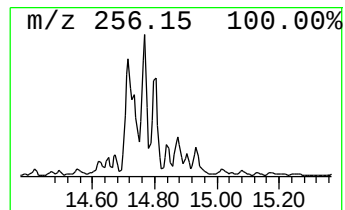
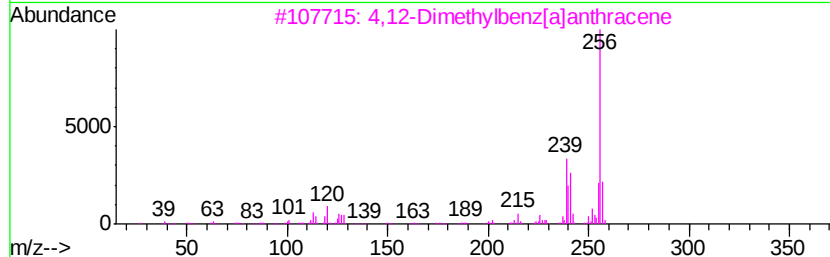
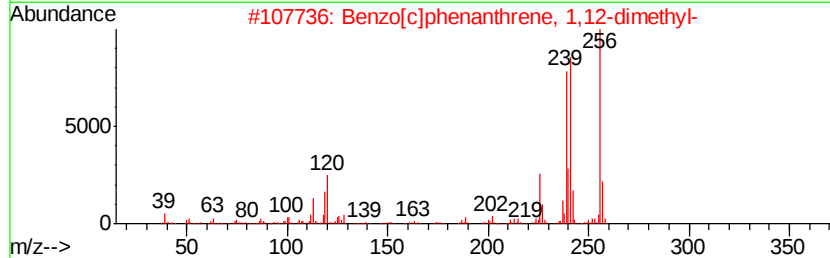
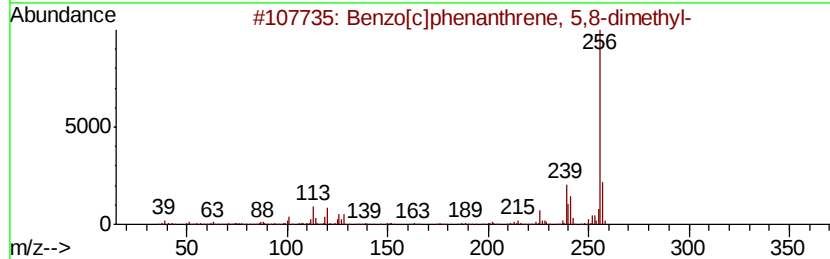
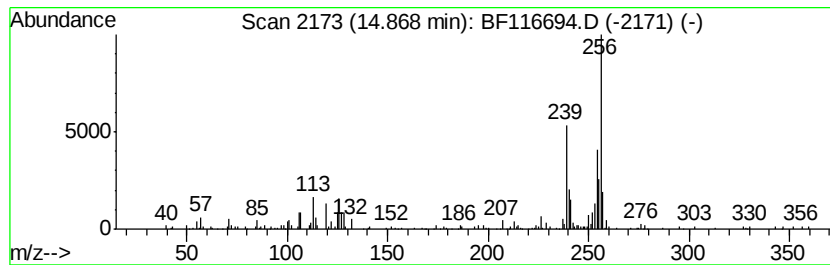
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Benzo[c]phenanthrene, 1,12-... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	4.56 ng	176459	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	86
2		Benzo[c]phenanthrene, 1,12-dimet...	256	C20H16	004076-43-1	83
3		4,12-Dimethylbenz[alanthracene	256	C20H16	035187-19-0	78
4		Benz[alanthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	78
5		Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	70



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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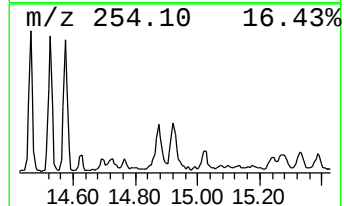
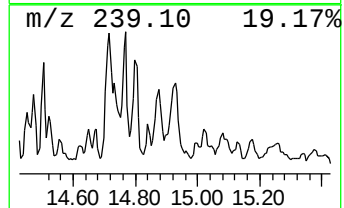
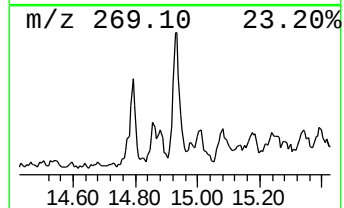
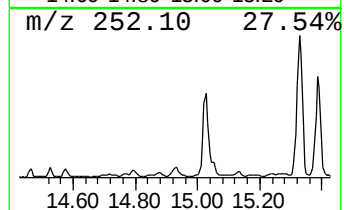
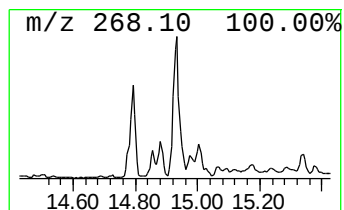
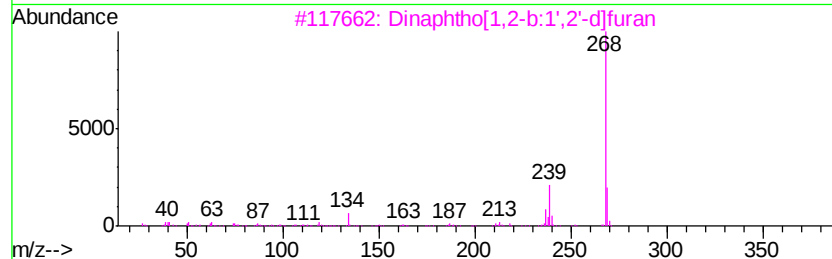
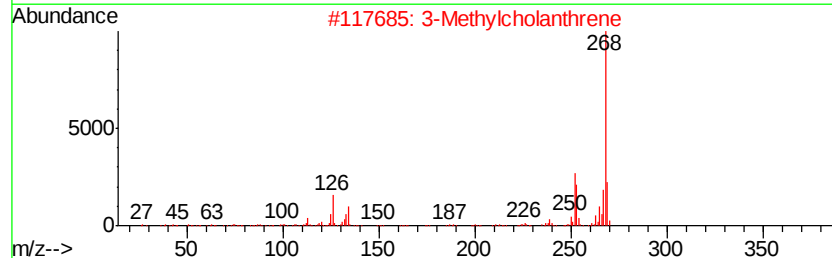
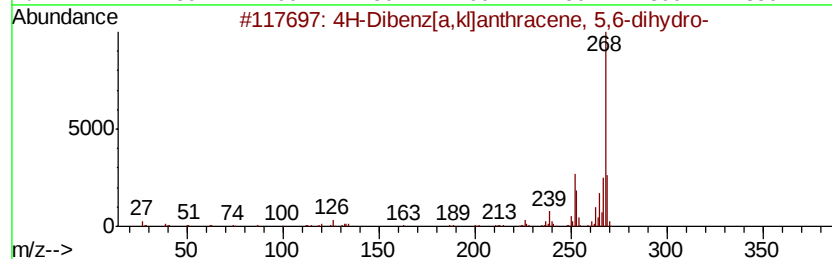
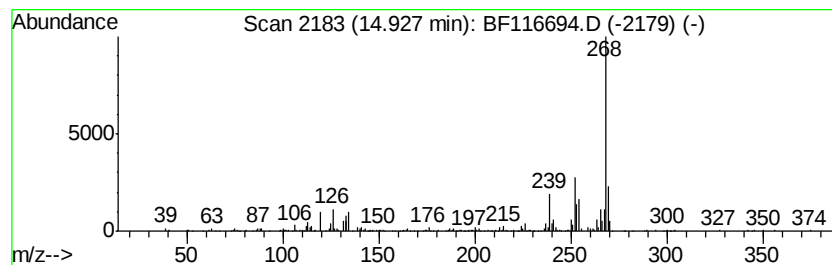
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 4H-Dibenz[a,k]anthracene, ... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.93	13.03 ng	504600	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Dibenz[a,k]anthracene, 5,6-d...	268	C21H16	007198-87-0	76
2		3-Methylcholanthrene	268	C21H16	000056-49-5	62
3		Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	60
4		9,10-Dihydro-8-methylbenzo[a]pyrene	268	C21H16	089524-72-1	58
5		Naphthalene, 1,1'-methylenebis-	268	C21H16	000607-50-1	58



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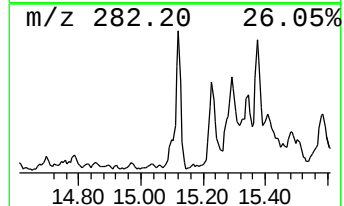
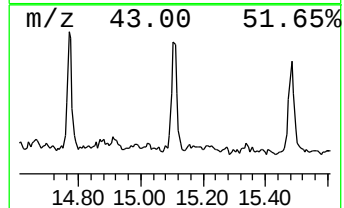
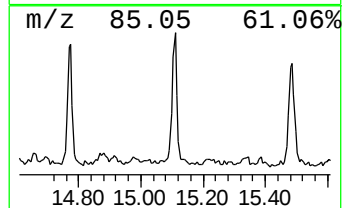
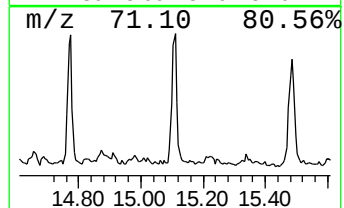
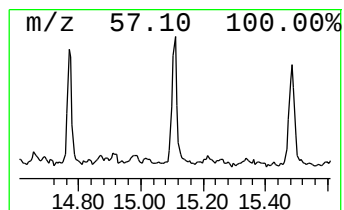
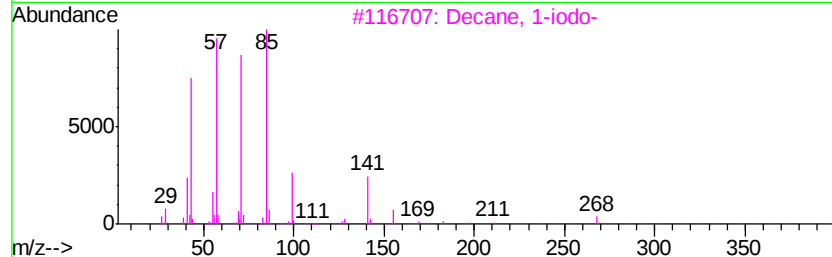
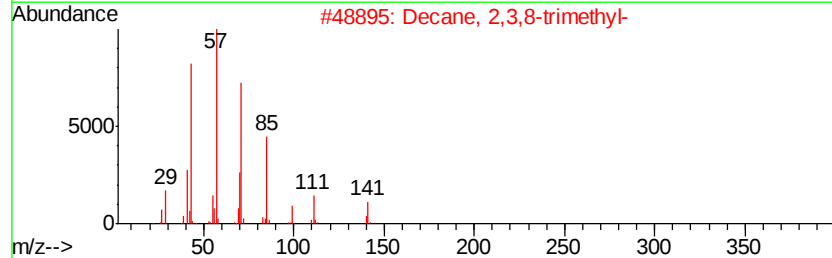
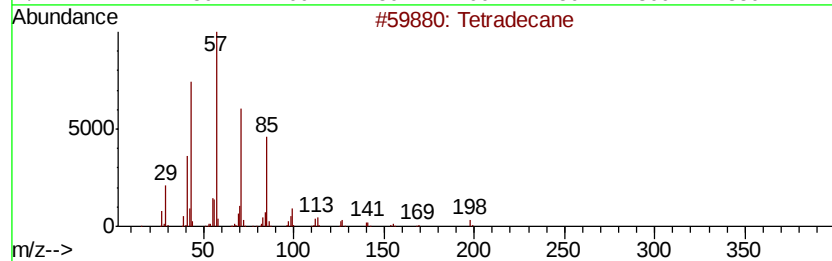
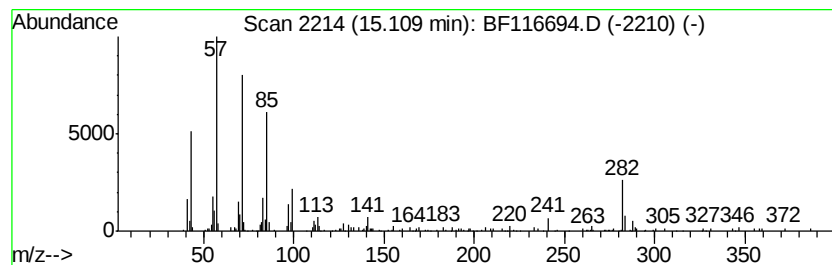
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Tetradecane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.11	10.07 ng	389996	Perylene-d12	15.45
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Tetradecane	198 C14H30	000629-59-4 59
2		Decane, 2,3,8-trimethyl-	184 C13H28	062238-14-6 59
3		Decane, 1-iodo-	268 C10H21I	002050-77-3 53
4		Undecane, 2,9-dimethyl-	184 C13H28	017301-26-7 53
5		Decane, 5-propyl-	184 C13H28	017312-62-8 52



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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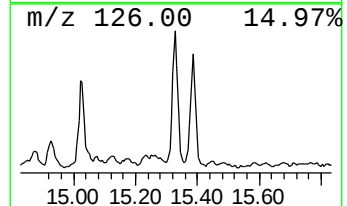
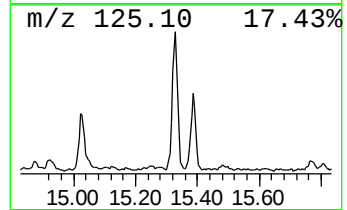
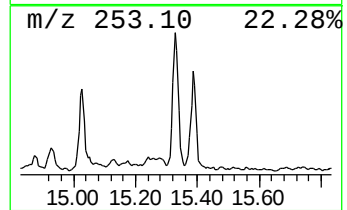
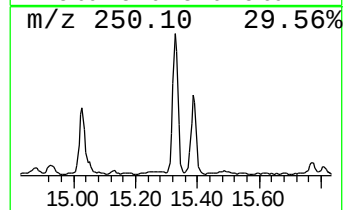
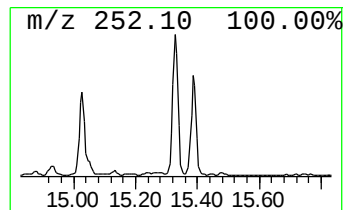
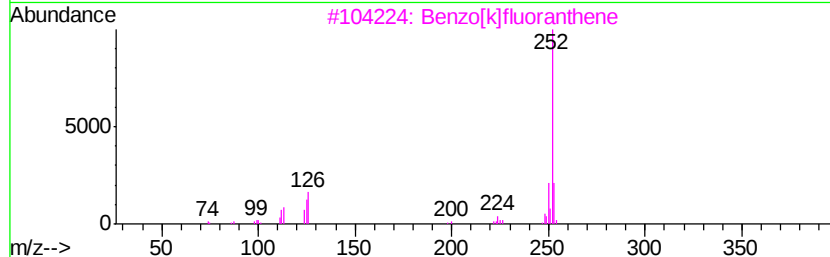
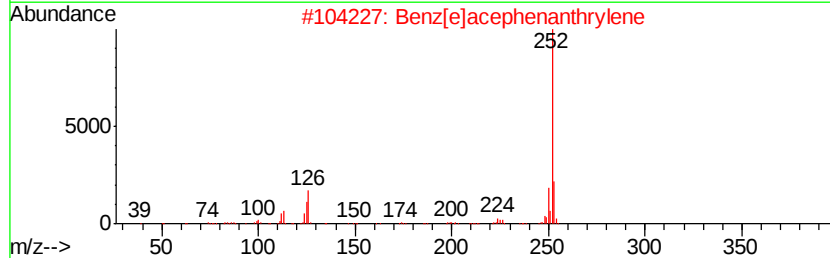
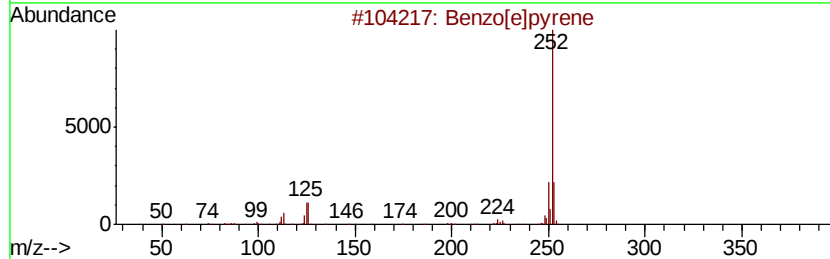
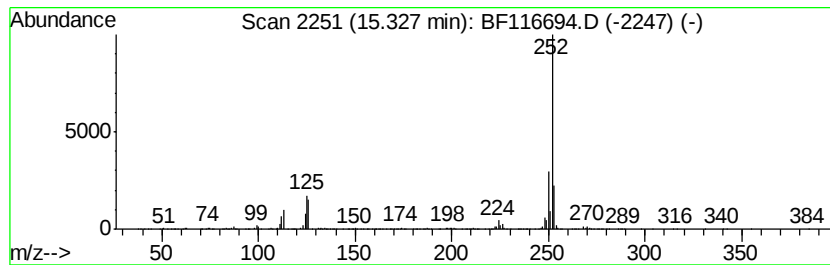
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	25.89 ng	1002750	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	98
3		Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
4		Perylene	252	C20H12	000198-55-0	96
5		Benzo[a]pyrene	252	C20H12	000050-32-8	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116694.D
Acq On : 31 Aug 2019 12:56
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

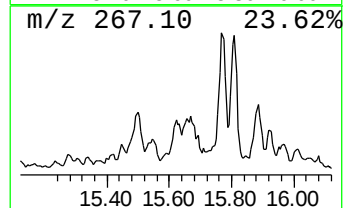
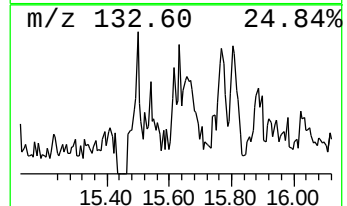
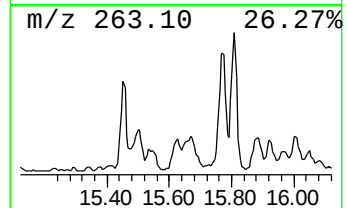
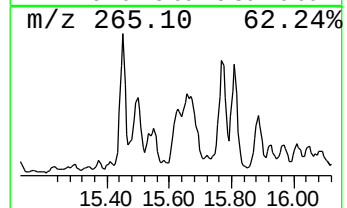
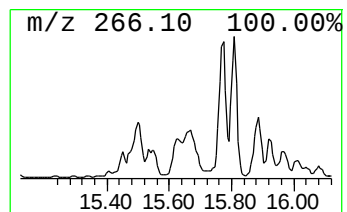
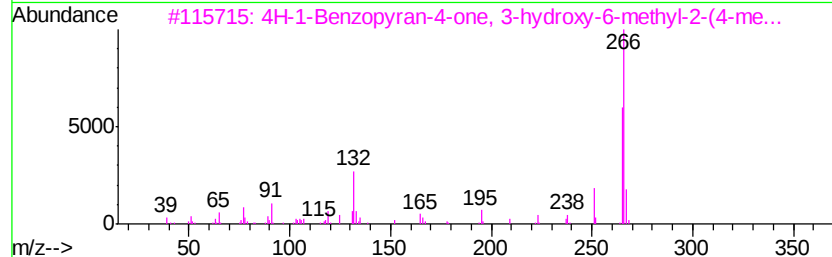
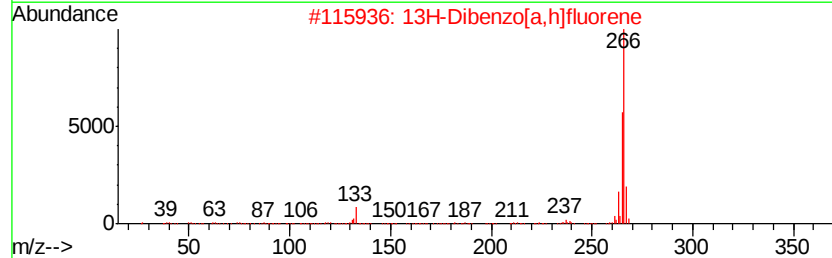
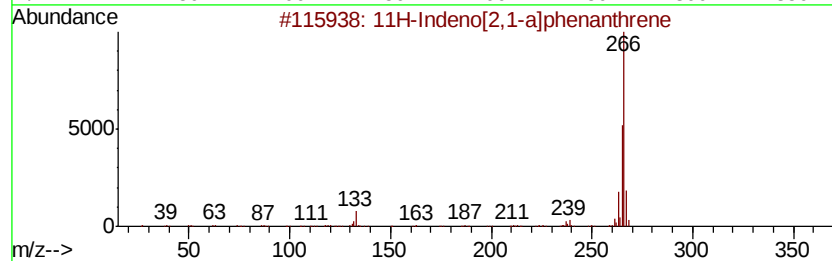
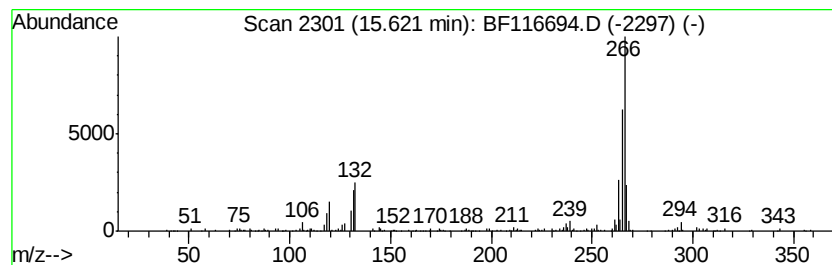
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ClientSampleId :
SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 11H-Indeno[2,1-a]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.62	6.10 ng	236220	Perylene-d12	15.45		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	64
2		13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	64
3		4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	58
4		Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	50
5		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116694.D
Acq On : 31 Aug 2019 12:56
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
SB-4-20-22

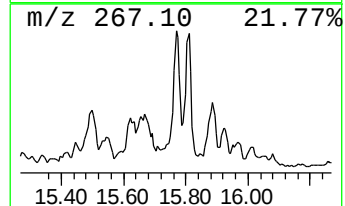
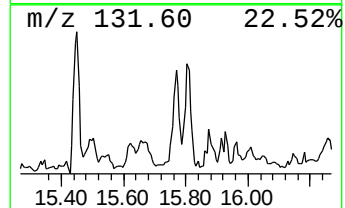
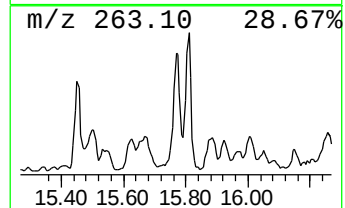
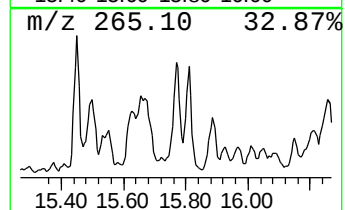
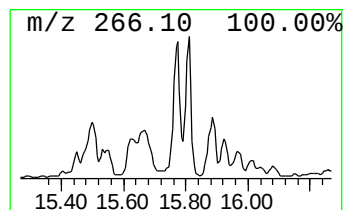
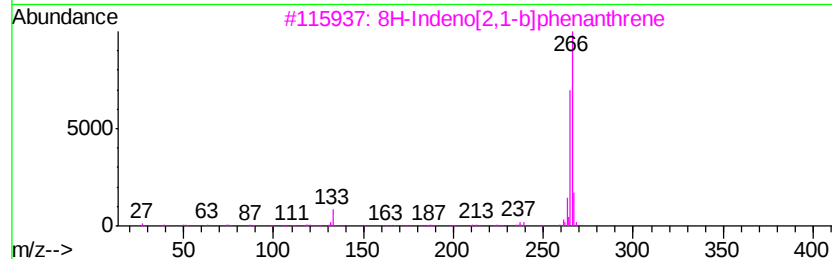
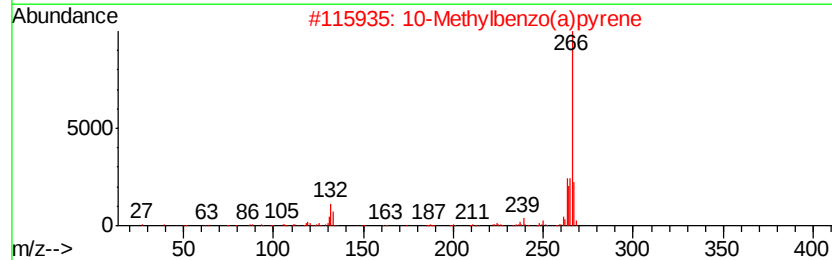
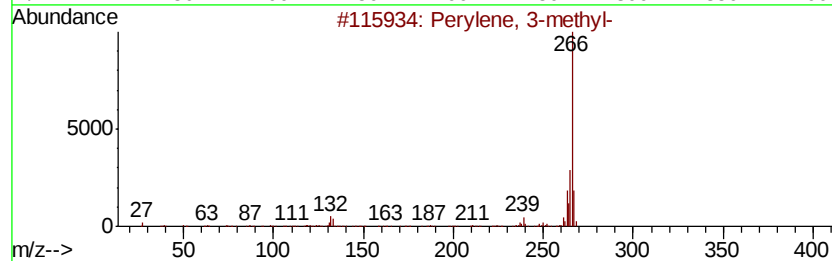
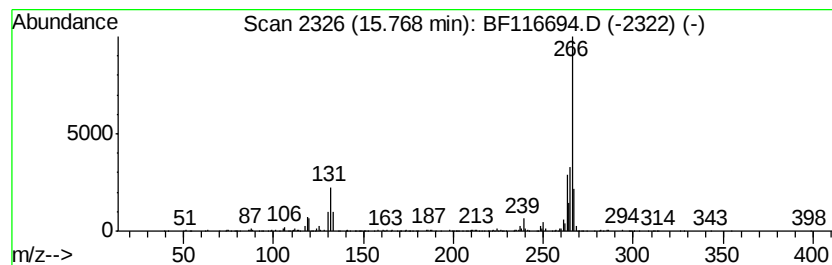
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Perylene, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.77	15.68 ng	607437	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene, 3-methyl-	266	C21H14	024471-47-4	94
2		10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	93
3		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	70
4		13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	64
5		Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116694.D
Acq On : 31 Aug 2019 12:56
Operator : HP/JU
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Misc :
ALS Vial : 8 Sample Multiplier: 1

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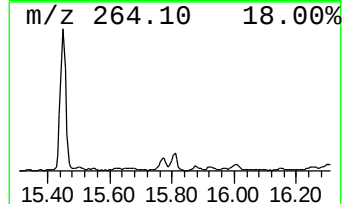
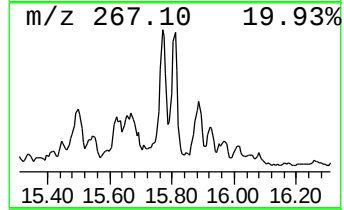
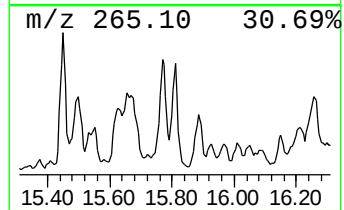
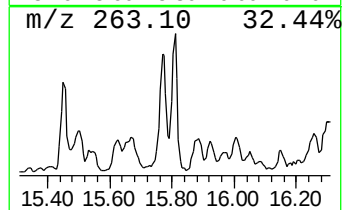
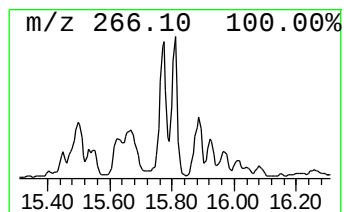
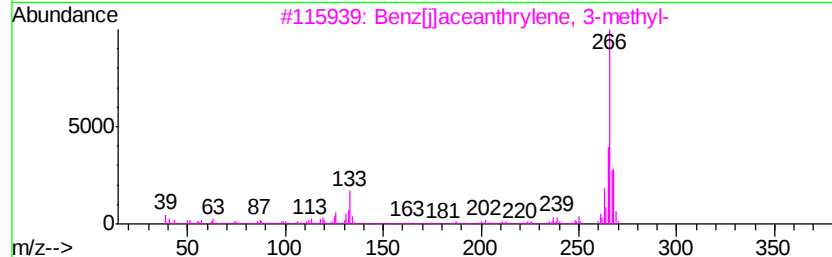
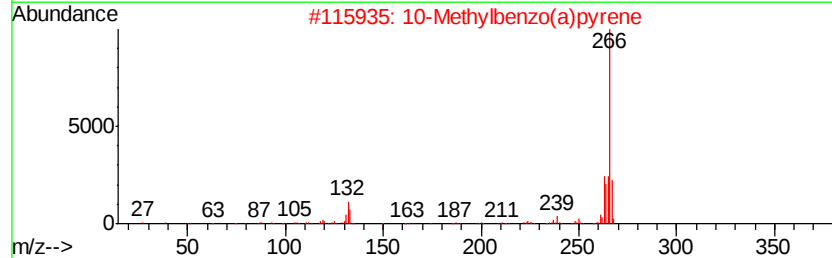
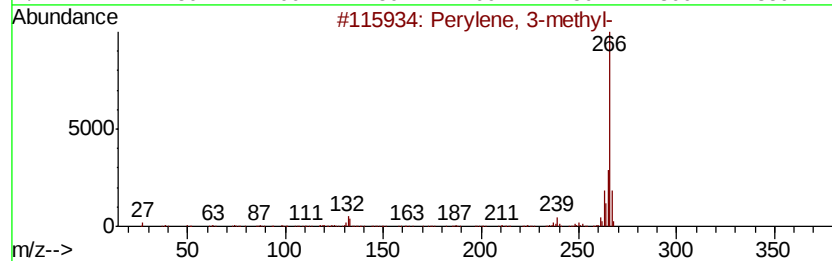
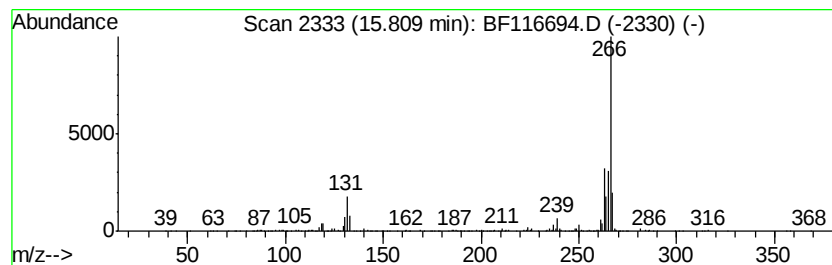
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 10-Methylbenzo(a)pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.81	16.15 ng	625583	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene, 3-methyl-	266	C21H14	024471-47-4	89
2		10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	86
3		Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	60
4		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	53
5		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	52



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
 Data File : BF116694.D
 Acq On : 31 Aug 2019 12:56
 Operator : HP/JU
 Sample : K4618-07 20X
 Misc :
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Instrument :
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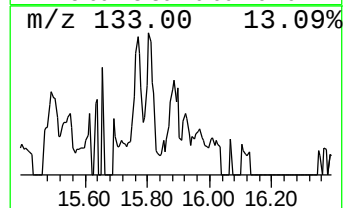
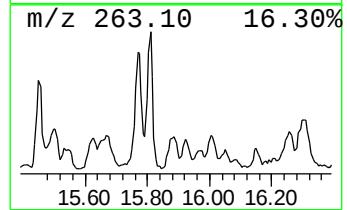
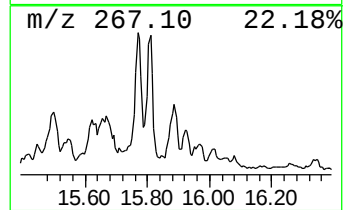
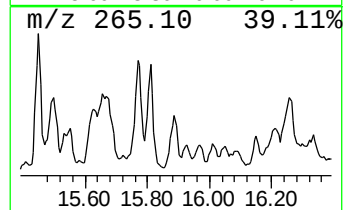
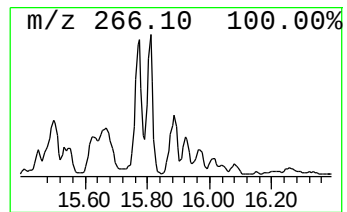
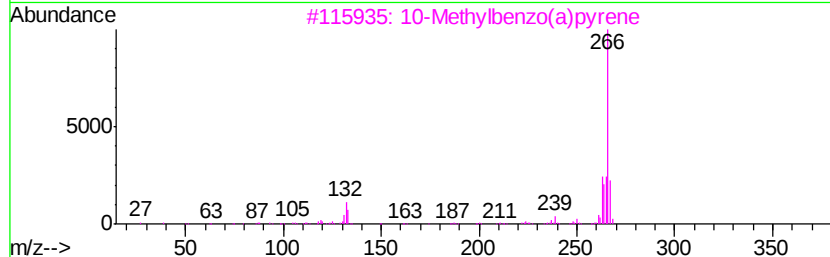
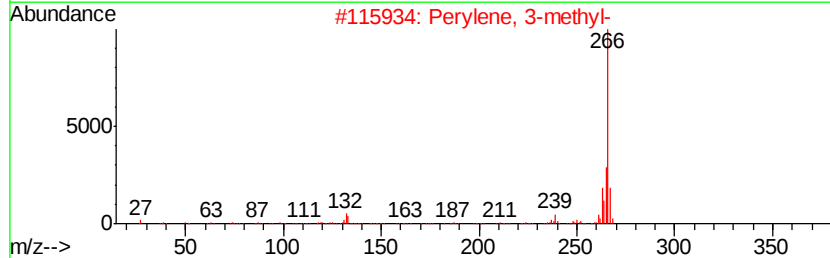
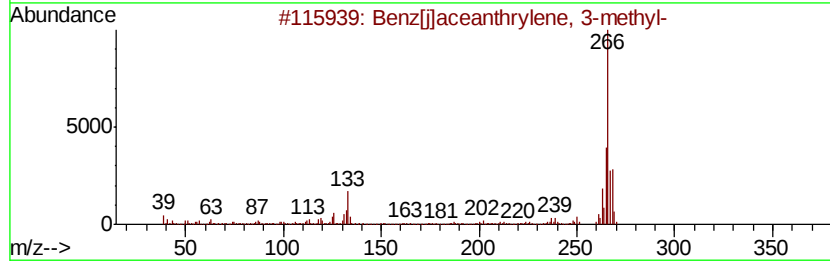
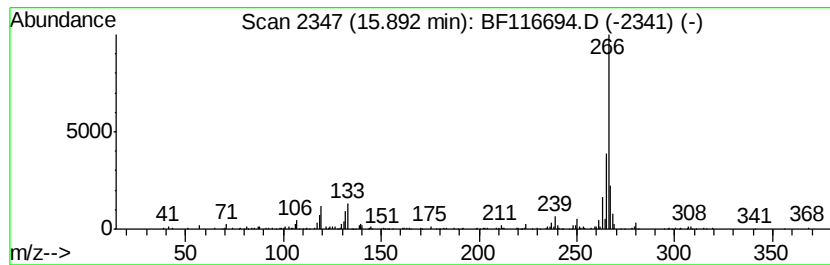
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

 Peak Number 14 Benz[j]aceanthrylene, 3-met... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.89	8.08 ng	312821	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	91
2		Perylene, 3-methyl-	266	C21H14	024471-47-4	87
3		10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	76
4		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	76
5		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	70



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

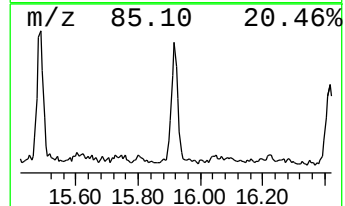
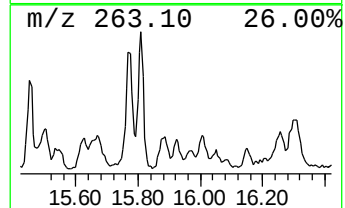
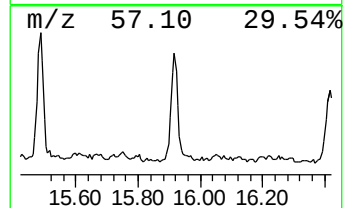
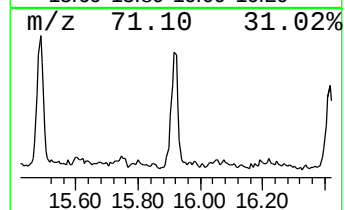
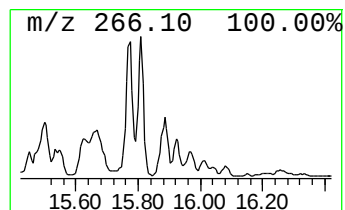
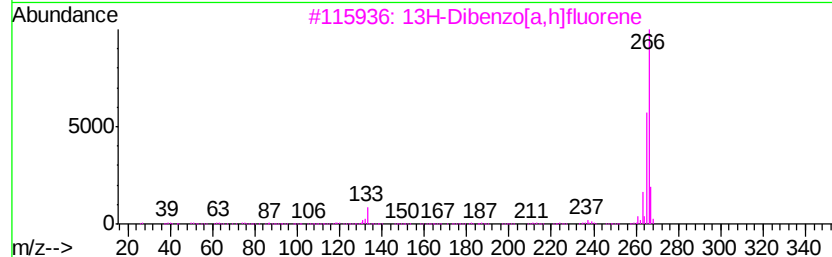
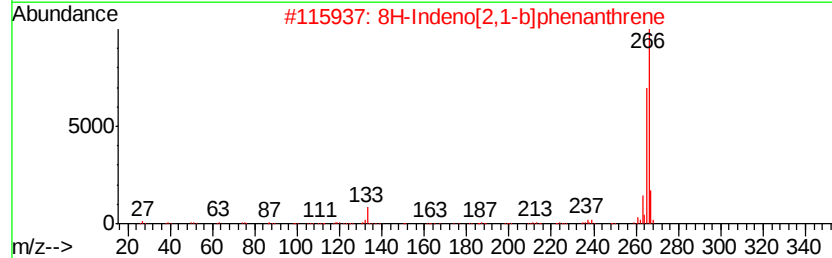
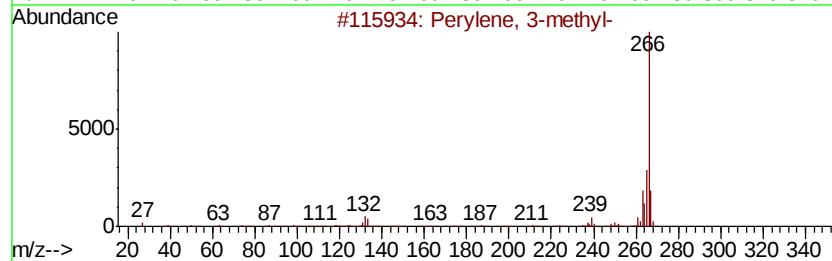
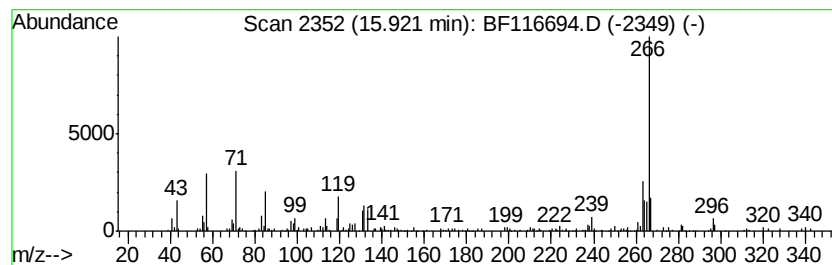
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 8H-Indeno[2,1-b]phenanthrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.92	5.26 ng	203695	Perylene-d12	15.45		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Perylene, 3-methyl-	266	C21H14	024471-47-4	60
2		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	58
3		13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	52
4		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	52
5		9-Trifluoromethyl-5,6,7,8-tetra...	266	C12H9F3N4	1000301-28-5	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
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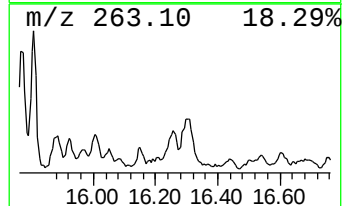
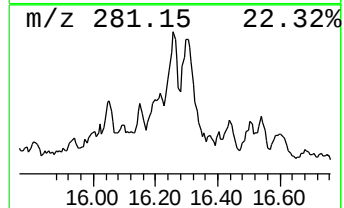
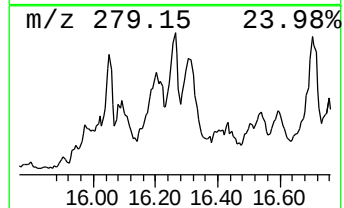
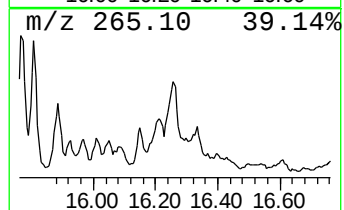
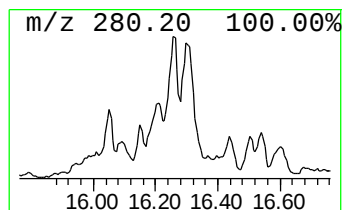
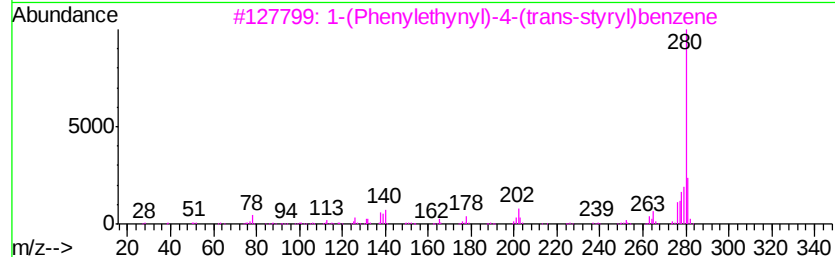
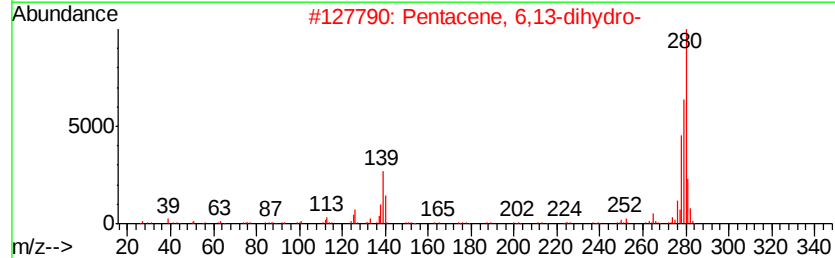
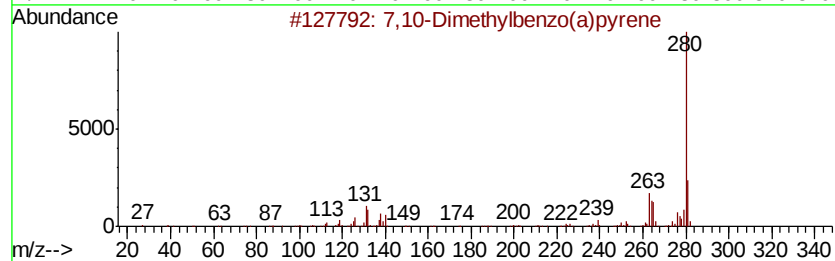
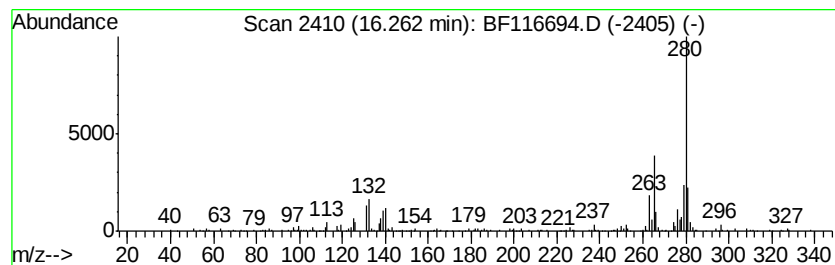
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 7,10-Dimethylbenzo(a)pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.		
16.26	6.22 ng	240956	Perylene-d12	15.45		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		7,10-Dimethylbenzo(a)pyrene	280	C22H16	063104-33-6	92
2		Pentacene, 6,13-dihydro-	280	C22H16	013579-08-3	64
3		1-(Phenylethynyl)-4-(trans-styryl)-	280	C22H16	173035-17-1	60
4		Naphthalene, 1,7-diphenyl-	280	C22H16	000970-06-9	60
5		Benzo[h]naphtho[1,2-c]cinoline	280	C20H12N2	000213-51-4	60



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116694.D
Acq On : 31 Aug 2019 12:56
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4-20-22

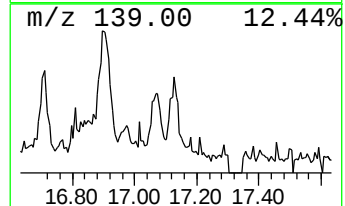
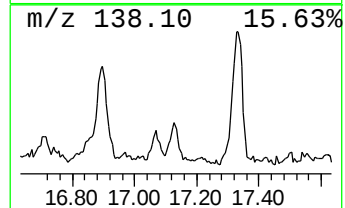
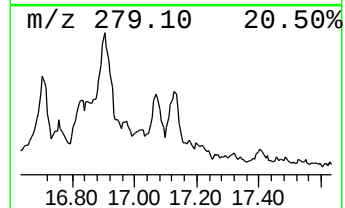
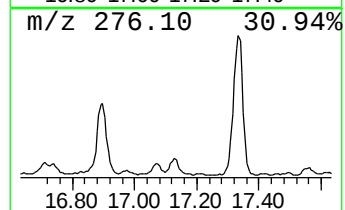
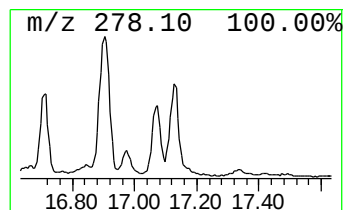
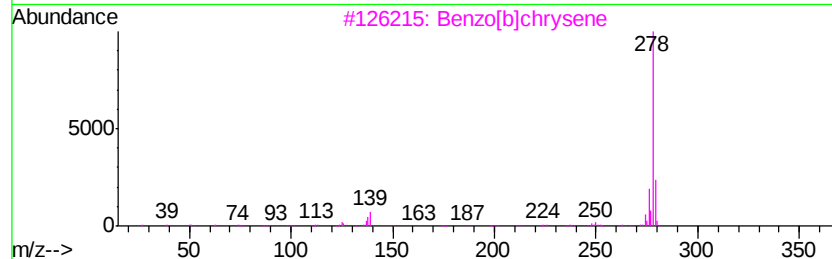
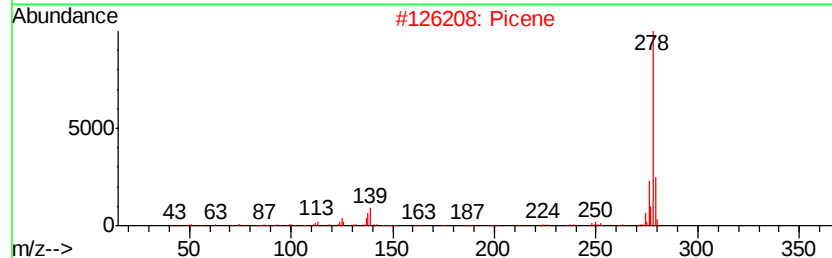
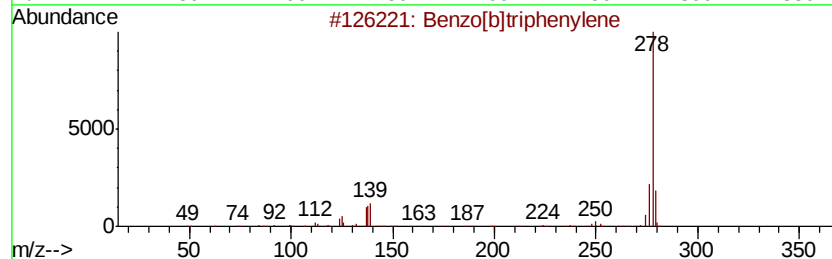
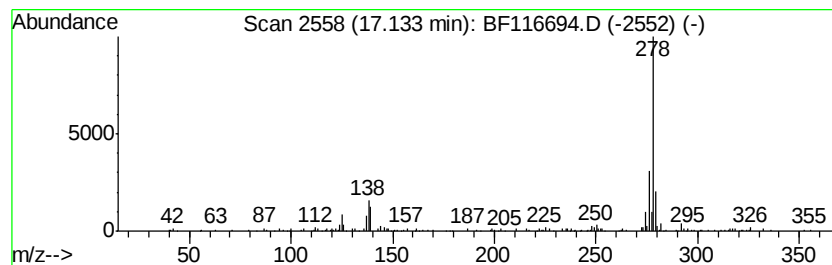
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Benzo[b]triphenylene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.13	5.02 ng	194484	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2		Picene	278	C22H14	000213-46-7	93
3		Benzo[b]chrysene	278	C22H14	000214-17-5	86
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	86
5		Vanadium, (.eta.5-2,4-cyclopenta...	278	C17H23V	126948-97-8	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116694.D
Acq On : 31 Aug 2019 12:56
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4-20-22

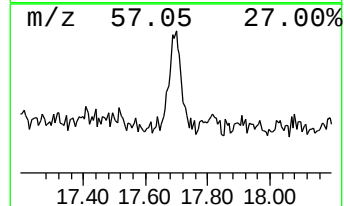
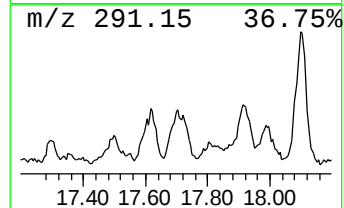
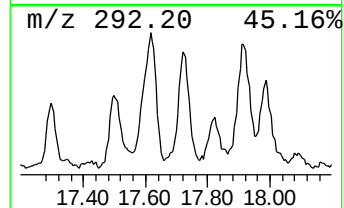
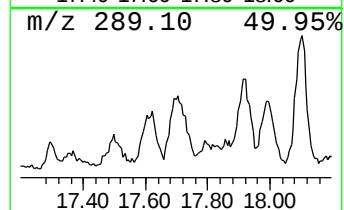
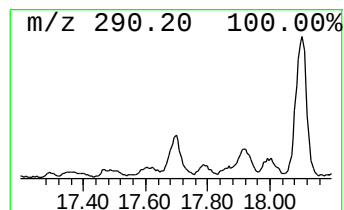
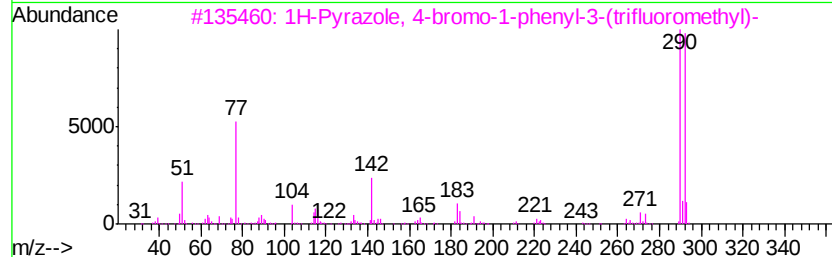
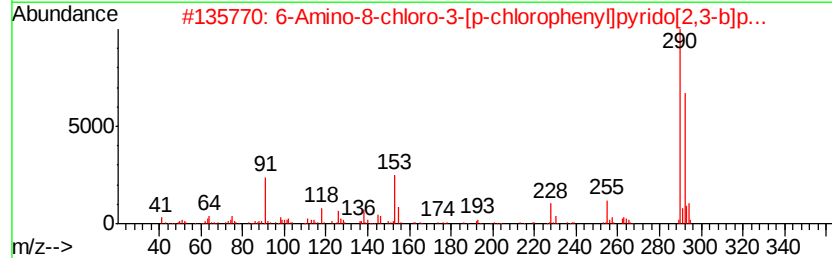
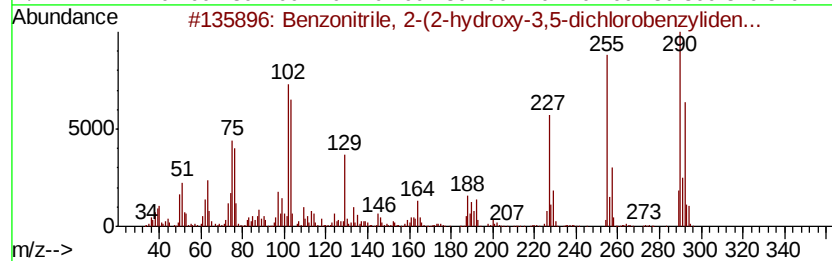
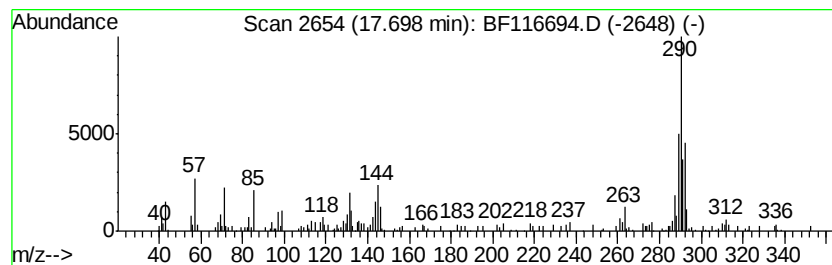
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzonitrile, 2-(2-hydroxy-... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.70	5.69 ng	220272	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzonitrile, 2-(2-hydroxy-3,5-d...	290	C14H8Cl2N2O	316133-55-8	86
2		6-Amino-8-chloro-3-[p-chlorophen...	290	C13H8Cl2N4	028649-00-5	43
3		1H-Pyrazole, 4-bromo-1-phenyl-3-...	290	C10H6BrF3N2	1000327-39-4	43
4		Benzo[gh]perylene, 4-methyl-	290	C23H14	019224-38-5	38
5		3-Bromo-2,5,6-trimethoxybenzoic ...	290	C10H11BrO5	101460-22-4	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116694.D
Acq On : 31 Aug 2019 12:56
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4-20-22

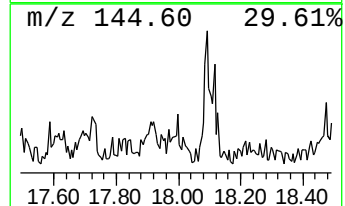
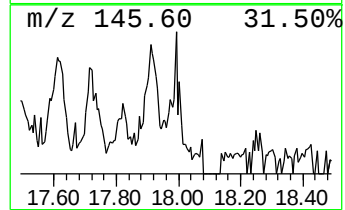
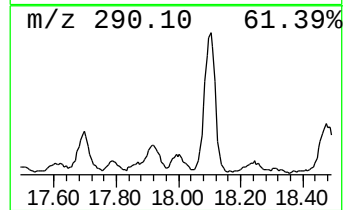
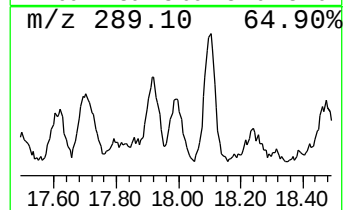
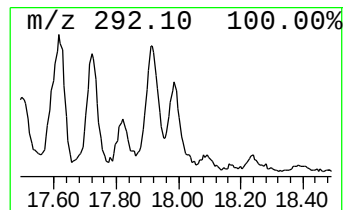
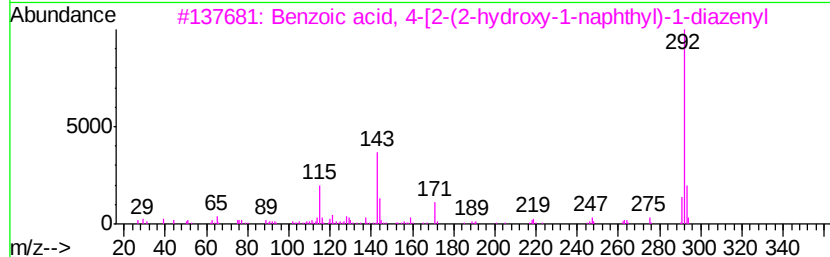
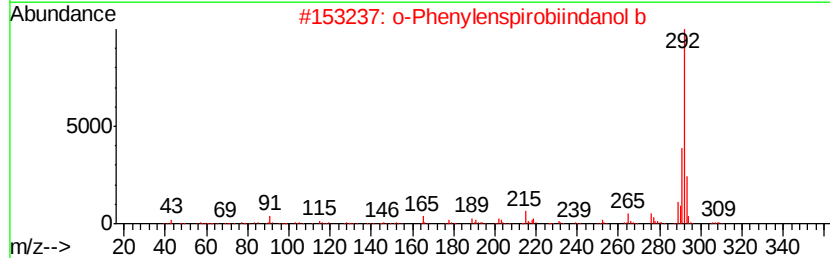
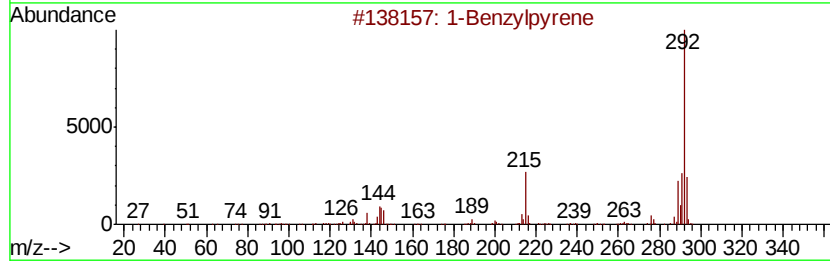
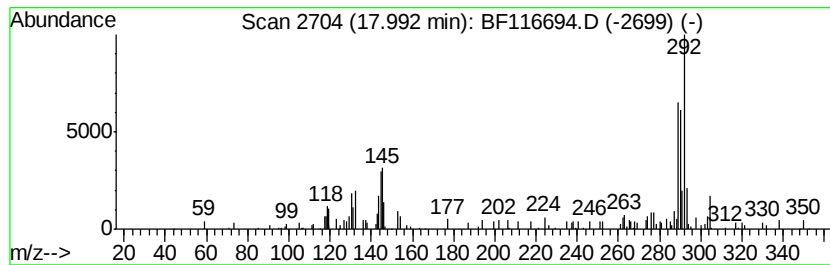
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 unknown17.99 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	4.24 ng	164280	Perylene-d12	15.45

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Benzylpyrene	292	C23H16	042211-34-7	37
2			o-Phenylenspirobiindanol b	310	C23H18O	155919-26-9	35
3			Benzoic acid, 4-[2-(2-hydroxy-1-...	292	C17H12N2O3	1000197-03-1	32
4			Androstane-3,17-diol, (3.beta.,5...	292	C19H32O2	000571-20-0	30
5			Aniline, p,p'-(m-phenylenedioxy)di-	292	C18H16N2O2	002479-46-1	27



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\
Data File : BF116694.D
Acq On : 31 Aug 2019 12:56
Operator : HP/JU
Sample : K4618-07 20X
Misc :
ALS Vial : 8 Sample Multiplier: 1

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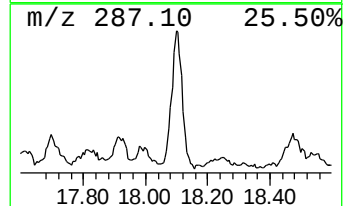
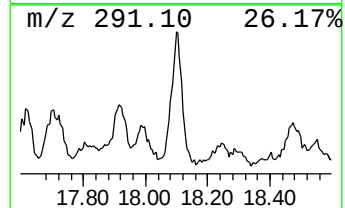
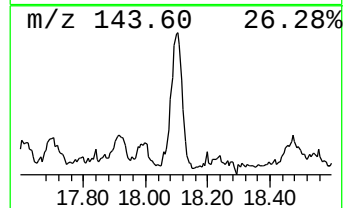
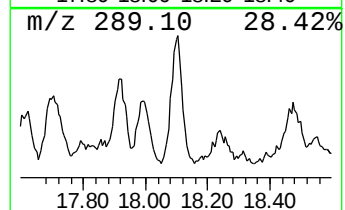
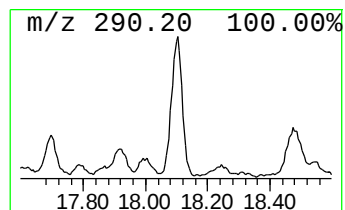
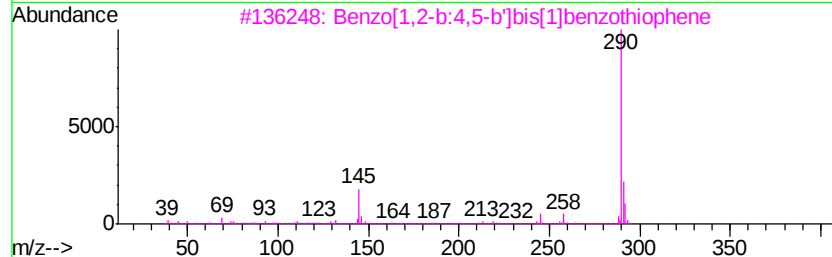
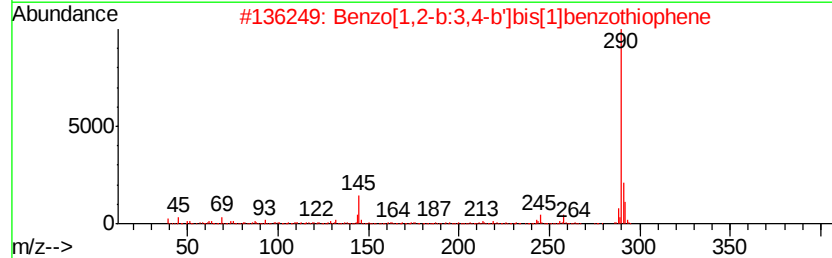
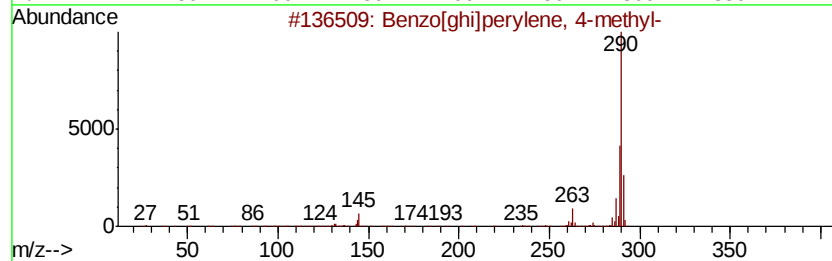
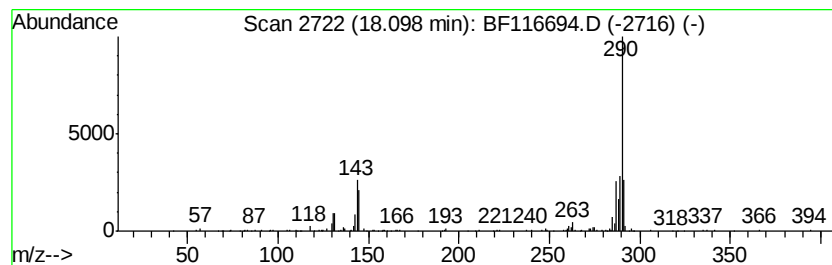
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[ghi]perylene, 4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	11.48 ng	444681	Perylene-d12	15.45

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	74
2		Benzo[1,2-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000198-89-0	50
3		Benzo[1,2-b:4,5-b']bis[1]benzoth...	290	C18H10S2	000241-34-9	47
4		(4-Nitrophenyl)diphenylamine	290	C18H14N2O2	004316-57-8	38
5		10-Hexyl-9-anthracenecarbaldehyde	290	C21H22O	165663-08-1	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF083119\
 Data File : BF116694.D
 Acq On : 31 Aug 2019 12:56
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 Sample : K4618-07 20X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4-20-22

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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
Chrysene, 1-methyl-	14.39	14.9	ng	1701640	5	14.00	2287140	20.0
Triphenylene, 2-m...	14.42	7.8	ng	897677	5	14.00	2287140	20.0
unknown14.47	14.47	5.7	ng	650761	5	14.00	2287140	20.0
Benz[a]anthracene...	14.72	5.9	ng	679067	5	14.00	2287140	20.0
Benzo[c]phenanthr...	14.77	13.3	ng	516624	6	15.45	774665	20.0
Benz(a)anthracene...	14.80	11.2	ng	433312	6	15.45	774665	20.0
Benzo[c]phenanthr...	14.87	4.6	ng	176459	6	15.45	774665	20.0
4H-Dibenz[a,k]an...	14.93	13.0	ng	504600	6	15.45	774665	20.0
Tetradecane	15.11	10.1	ng	389996	6	15.45	774665	20.0
Benzo[e]pyrene	15.33	25.9	ng	1002750	6	15.45	774665	20.0
11H-Indeno[2,1-a]...	15.62	6.1	ng	236220	6	15.45	774665	20.0
Perylene, 3-methyl-	15.77	15.7	ng	607437	6	15.45	774665	20.0
10-Methylbenzo(a)...	15.81	16.1	ng	625583	6	15.45	774665	20.0
Benz[j]aceanthryl...	15.89	8.1	ng	312821	6	15.45	774665	20.0
8H-Indeno[2,1-b]p...	15.92	5.3	ng	203695	6	15.45	774665	20.0
7,10-Dimethylbenz...	16.26	6.2	ng	240956	6	15.45	774665	20.0
Benzo[b]triphenylene	17.13	5.0	ng	194484	6	15.45	774665	20.0
Benzonitrile, 2-(...	17.70	5.7	ng	220272	6	15.45	774665	20.0
unknown17.99	17.99	4.2	ng	164280	6	15.45	774665	20.0
Benzo[ghi]perylene...	18.10	11.5	ng	444681	6	15.45	774665	20.0