

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102919\
 Data File : BF117608.D
 Acq On : 29 Oct 2019 23:53
 Operator : JU
 Sample : K5576-14 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-3

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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	5.369	555	558	577	rBV	56455	115248	6.42%	0.613%
2	6.398	730	733	744	rBV	59992	124713	6.94%	0.664%
3	6.510	749	752	760	rBV	112847	142602	7.94%	0.759%
4	6.728	786	789	806	rVB	190071	187279	10.43%	0.997%
5	6.887	812	816	826	rBV	94600	109387	6.09%	0.582%
6	7.304	884	887	907	rBV	30946	69873	3.89%	0.372%
7	8.010	1004	1007	1015	rBV	197436	222700	12.40%	1.185%
8	9.081	1186	1189	1200	rBV	129942	132624	7.38%	0.706%
9	9.492	1255	1259	1265	rVB2	16607	26274	1.46%	0.140%
10	9.622	1278	1281	1290	rBV	248329	251402	14.00%	1.338%
11	9.763	1301	1305	1308	rBV	232721	215312	11.99%	1.146%
12	9.792	1308	1310	1318	rVB	23929	25390	1.41%	0.135%
13	9.969	1335	1340	1344	rBV4	16850	21396	1.19%	0.114%
14	10.310	1395	1398	1405	rVB3	27511	39742	2.21%	0.212%
15	10.557	1437	1440	1450	rVB2	60119	85789	4.78%	0.457%
16	10.675	1454	1460	1462	rBV3	20858	27773	1.55%	0.148%
17	10.863	1487	1492	1495	rBV3	19117	23867	1.33%	0.127%
18	11.010	1515	1517	1523	rVB4	28899	34653	1.93%	0.184%
19	11.069	1523	1527	1530	rVV3	25193	33948	1.89%	0.181%
20	11.104	1530	1533	1536	rVV2	26976	33392	1.86%	0.178%
21	11.145	1538	1540	1546	rVB	23197	25397	1.41%	0.135%
22	11.251	1554	1558	1559	rBV	240953	206637	11.50%	1.100%
23	11.275	1559	1562	1565	rVV	457849	399017	22.21%	2.124%
24	11.327	1568	1571	1576	rVV	339313	333899	18.59%	1.777%
25	11.375	1577	1579	1584	rVB3	22062	26637	1.48%	0.142%
26	11.492	1593	1599	1604	rBV	88389	127233	7.08%	0.677%
27	11.539	1604	1607	1609	rVB3	30429	28796	1.60%	0.153%
28	11.751	1640	1643	1646	rBV	114235	106017	5.90%	0.564%
29	11.780	1646	1648	1653	rVV	166423	149340	8.31%	0.795%
30	11.827	1653	1656	1659	rVV	98823	92879	5.17%	0.494%
31	11.863	1659	1662	1665	rVV	180022	215368	11.99%	1.146%
32	11.886	1665	1666	1671	rVB	100622	70939	3.95%	0.378%
33	11.939	1671	1675	1678	rBV4	22996	34426	1.92%	0.183%
34	12.045	1689	1693	1698	rVB2	103828	101244	5.64%	0.539%

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 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.092	1698	1701	1704	rBV2	84019	81430	4.53%	0.433%
36	12.192	1714	1718	1722	rBV2	46396	60992	3.40%	0.325%
37	12.227	1722	1724	1726	rVV	75965	56636	3.15%	0.301%
38	12.257	1726	1729	1731	rVB	46430	43964	2.45%	0.234%
39	12.304	1733	1737	1739	rBV	162075	166573	9.27%	0.887%
40	12.339	1739	1743	1745	rVV3	82634	107973	6.01%	0.575%
41	12.363	1745	1747	1749	rVV2	65275	57127	3.18%	0.304%
42	12.404	1749	1754	1757	rVV2	107710	134231	7.47%	0.714%
43	12.474	1761	1766	1769	rBV	1724768	1704031	94.86%	9.070%
44	12.510	1769	1772	1774	rVV	43659	46511	2.59%	0.248%
45	12.533	1774	1776	1779	rVV2	40986	35475	1.97%	0.189%
46	12.563	1779	1781	1786	rVV	135200	119342	6.64%	0.635%
47	12.616	1787	1790	1793	rVV	99139	99610	5.55%	0.530%
48	12.645	1793	1795	1798	rVB2	31922	33881	1.89%	0.180%
49	12.704	1798	1805	1809	rBV2	1539888	1796363	100.00%	9.561%
50	12.751	1809	1813	1817	rVB2	113980	143852	8.01%	0.766%
51	12.827	1819	1826	1829	rBV2	230062	314357	17.50%	1.673%
52	12.863	1829	1832	1836	rVB2	88666	104869	5.84%	0.558%
53	12.921	1836	1842	1846	rBV2	178138	320583	17.85%	1.706%
54	12.998	1852	1855	1858	rBV4	139962	218373	12.16%	1.162%
55	13.027	1858	1860	1863	rVB	275069	214341	11.93%	1.141%
56	13.069	1864	1867	1868	rBV2	30917	29073	1.62%	0.155%
57	13.092	1868	1871	1873	rVV	146237	120890	6.73%	0.643%
58	13.127	1873	1877	1882	rVV2	216229	279848	15.58%	1.489%
59	13.186	1884	1887	1890	rBV4	45147	49763	2.77%	0.265%
60	13.221	1890	1893	1896	rVV	136303	115563	6.43%	0.615%
61	13.251	1896	1898	1902	rVV2	115359	131534	7.32%	0.700%
62	13.304	1904	1907	1910	rVB	181691	150751	8.39%	0.802%
63	13.398	1921	1923	1926	rBV2	39692	29956	1.67%	0.159%
64	13.427	1926	1928	1930	rBV2	33363	29562	1.65%	0.157%
65	13.451	1930	1932	1934	rVB2	34607	27703	1.54%	0.147%
66	13.545	1945	1948	1954	rVB	257820	241282	13.43%	1.284%
67	13.598	1955	1957	1961	rVB2	35637	40252	2.24%	0.214%
68	13.651	1961	1966	1968	rBV2	232644	288438	16.06%	1.535%
69	13.668	1968	1969	1972	rVB	163646	114794	6.39%	0.611%
70	13.704	1972	1975	1976	rBV	131106	121534	6.77%	0.647%
71	13.757	1981	1984	1990	rVB2	237259	287581	16.01%	1.531%

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72	13.816	1992	1994	1998	rVB	48847	44995	2.50%	0.239%
73	13.898	2000	2008	2011	rBV2	924441	1479300	82.35%	7.874%
74	13.933	2011	2014	2017	rVB	879528	781134	43.48%	4.158%
75	14.004	2024	2026	2029	rBV	81922	66218	3.69%	0.352%
76	14.057	2033	2035	2041	rVB4	89340	115434	6.43%	0.614%
77	14.251	2065	2068	2069	rBV	52819	47703	2.66%	0.254%
78	14.286	2069	2074	2078	rVV	181708	235300	13.10%	1.252%
79	14.321	2078	2080	2082	rVB	75790	53962	3.00%	0.287%
80	14.345	2082	2084	2086	rBV	67457	74828	4.17%	0.398%
81	14.386	2089	2091	2093	rBV2	34315	31960	1.78%	0.170%
82	14.416	2093	2096	2098	rBV	73543	77904	4.34%	0.415%
83	14.474	2104	2106	2110	rVB3	61079	69785	3.88%	0.371%
84	14.615	2127	2130	2137	rBV6	67493	132339	7.37%	0.704%
85	14.780	2155	2158	2161	rVB	90738	94367	5.25%	0.502%
86	14.933	2179	2184	2186	rBV	606029	856084	47.66%	4.556%
87	14.957	2186	2188	2193	rVV2	561733	583838	32.50%	3.107%
88	15.033	2197	2201	2205	rBV	142991	150022	8.35%	0.798%
89	15.110	2212	2214	2216	rBV3	30841	31062	1.73%	0.165%
90	15.221	2229	2233	2239	rVB	312001	361782	20.14%	1.926%
91	15.286	2239	2244	2250	rVV	347457	496132	27.62%	2.641%
92	15.339	2250	2253	2256	rVV	105136	128799	7.17%	0.686%
93	15.368	2256	2258	2264	rVB2	105914	144612	8.05%	0.770%
94	15.721	2313	2318	2322	rVB	165122	217569	12.11%	1.158%
95	15.886	2342	2346	2351	rVB2	26175	39916	2.22%	0.212%
96	16.604	2464	2468	2472	rVB3	25278	39936	2.22%	0.213%
97	16.757	2486	2494	2501	rVB2	158144	346694	19.30%	1.845%
98	16.909	2515	2520	2526	rBV	36862	69730	3.88%	0.371%
99	16.968	2528	2530	2536	rVB4	22292	36199	2.02%	0.193%
100	17.186	2562	2567	2578	rVB2	104646	220441	12.27%	1.173%

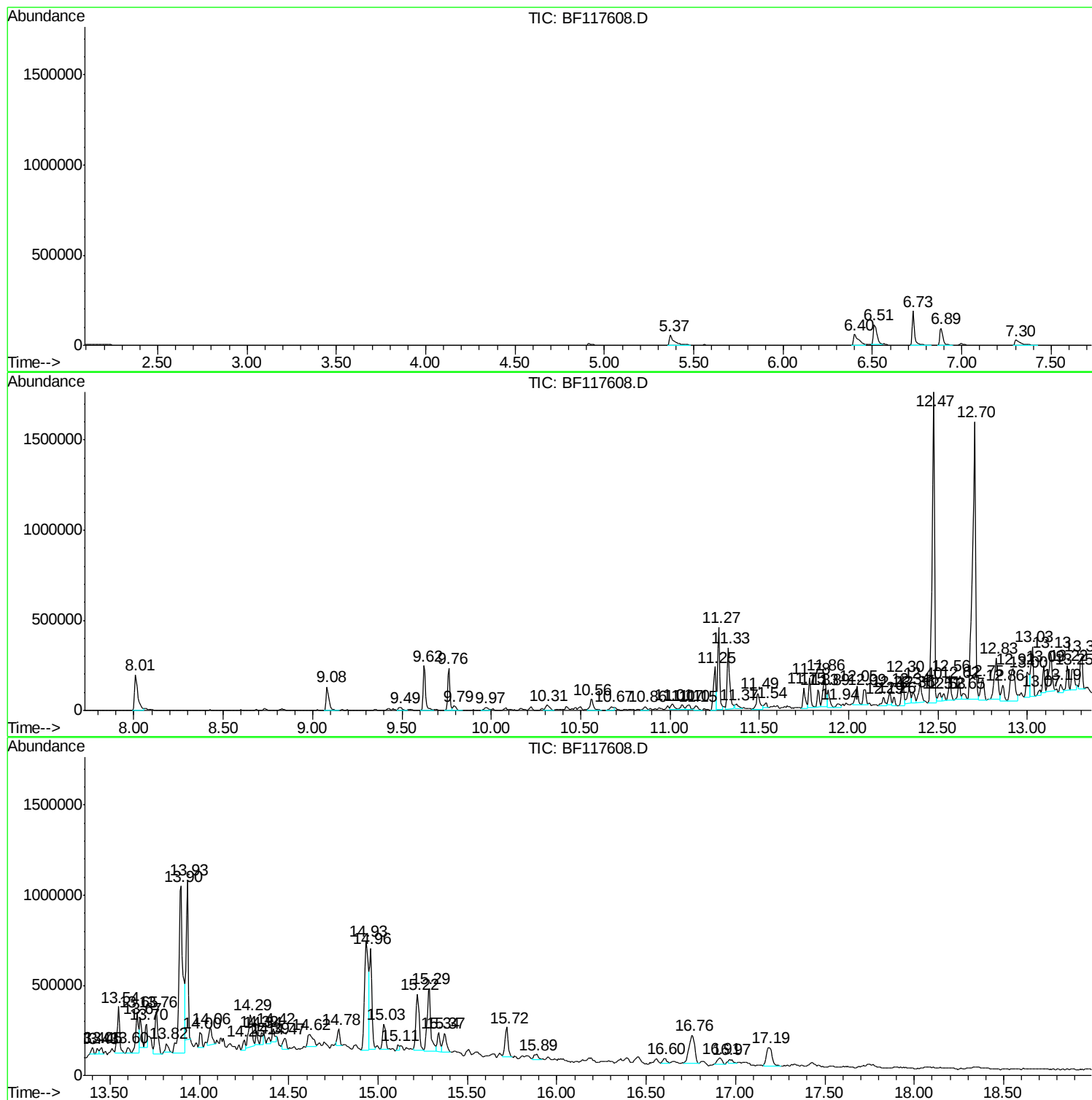
Sum of corrected areas: 18788276

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.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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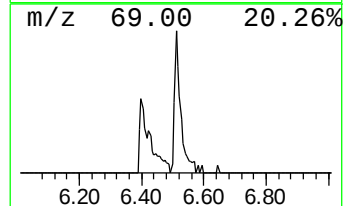
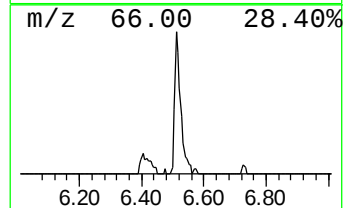
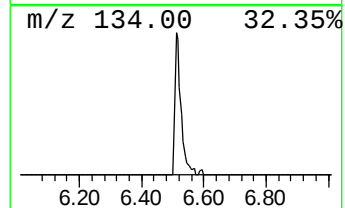
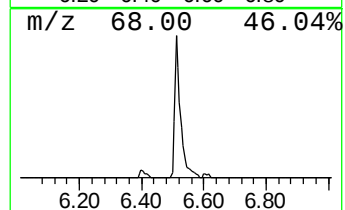
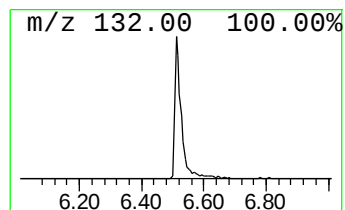
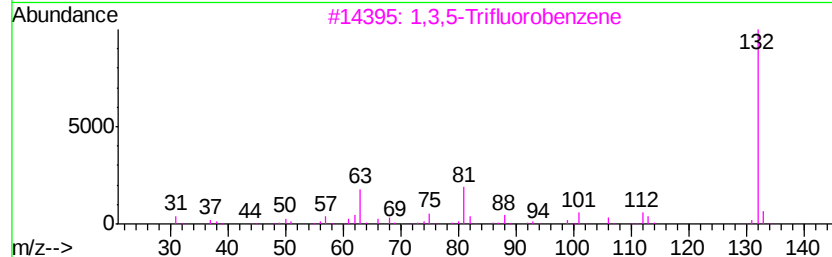
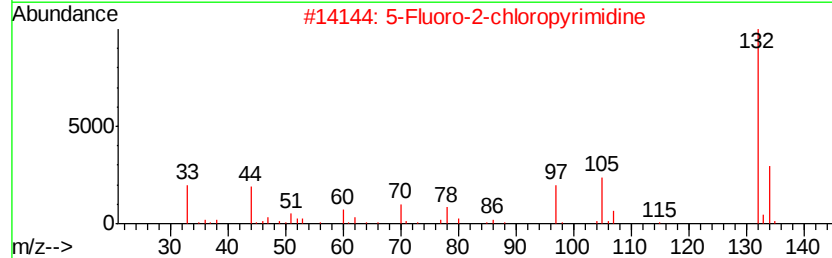
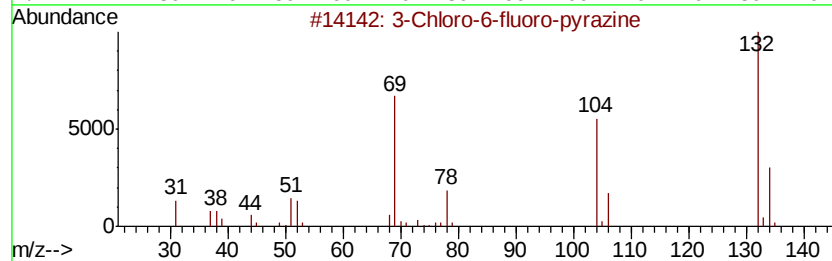
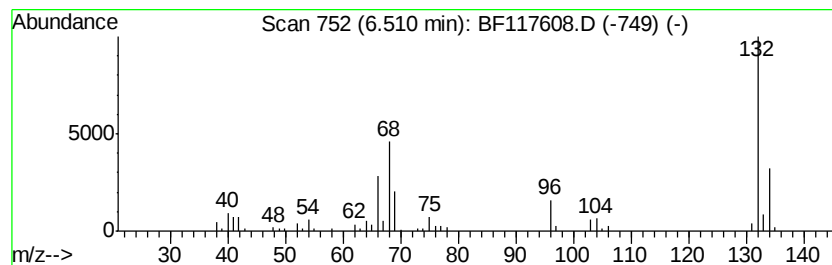
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.51 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.51	15.23 ng	142602	1,4-Dichlorobenzene-d4	6.73

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	27
3		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	12
4		1H-Indazole, 7-methyl-	132	C8H8N2	1000316-00-7	10
5		1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10



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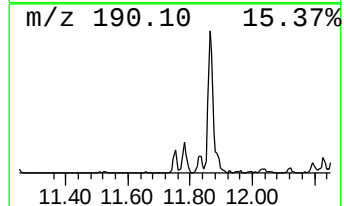
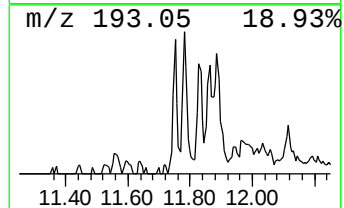
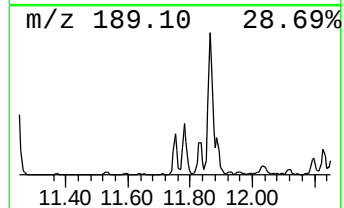
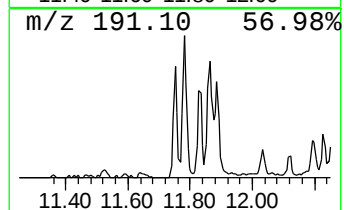
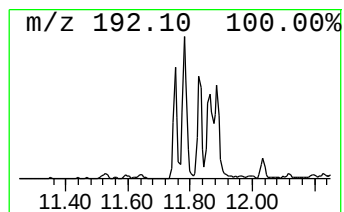
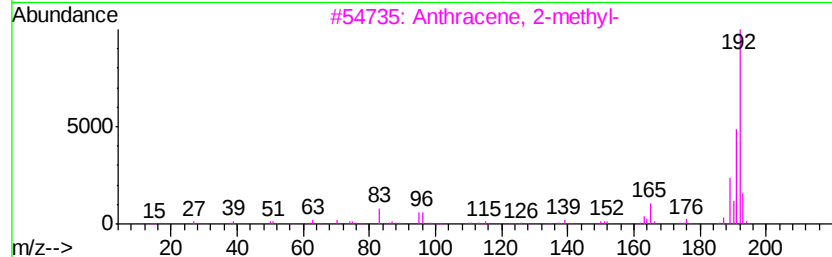
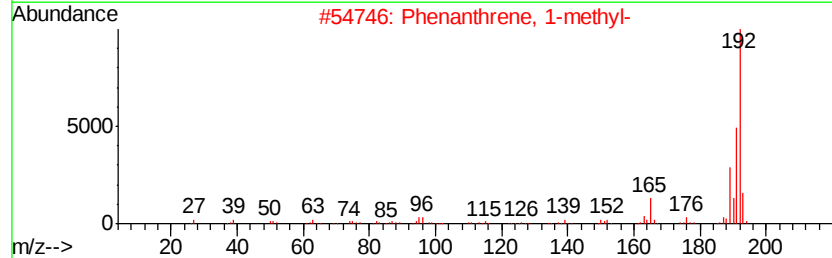
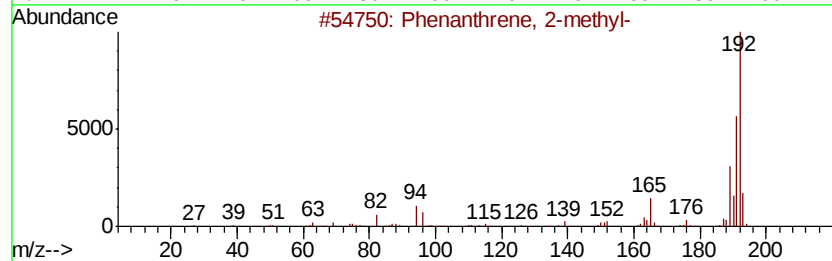
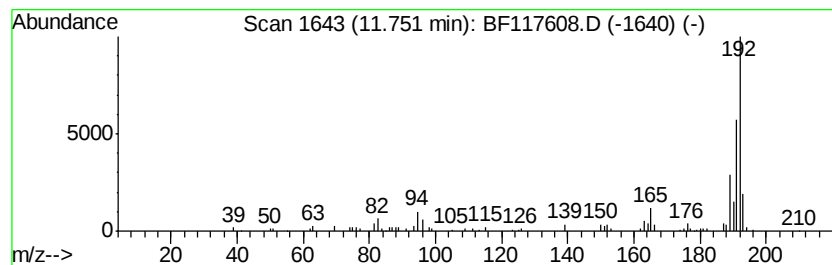
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	10.26 ng	106017	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93



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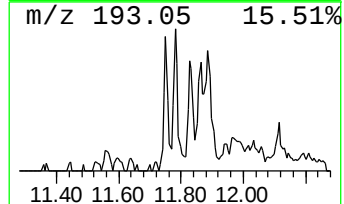
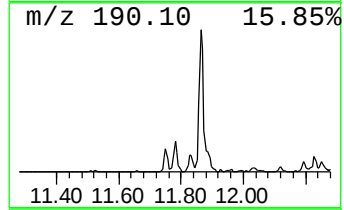
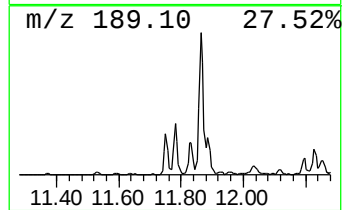
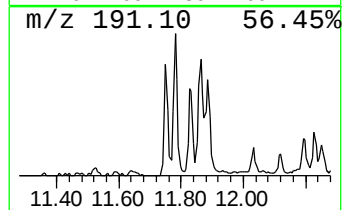
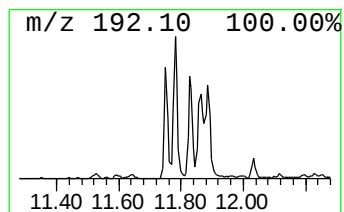
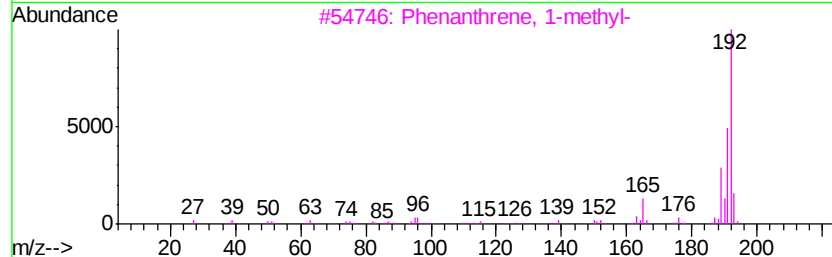
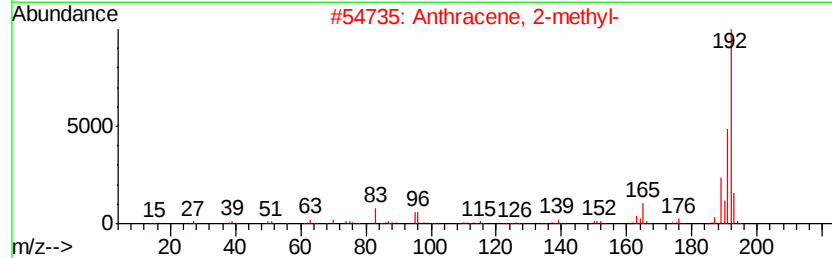
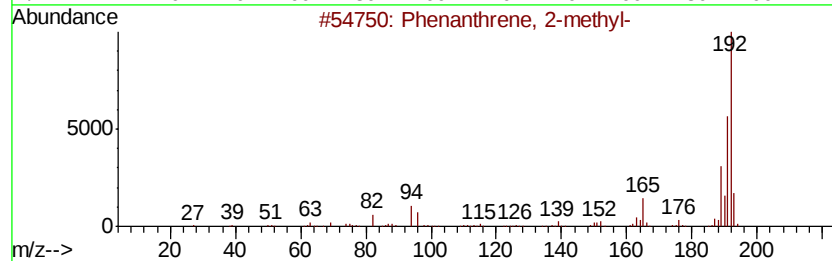
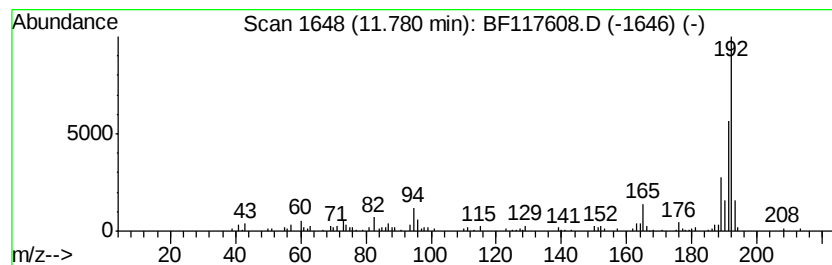
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TIC Integration Parameters: LSCINT.P

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	14.45 ng	149340	Phenanthrene-d10	11.25

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	95
5		1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
Acq On : 29 Oct 2019 23:53
Operator : JU
Sample : K5576-14 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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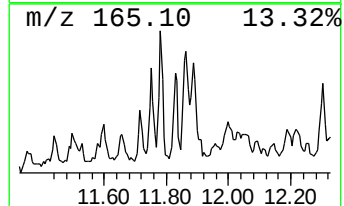
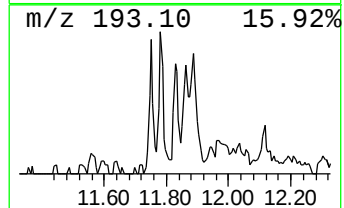
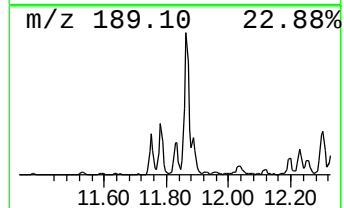
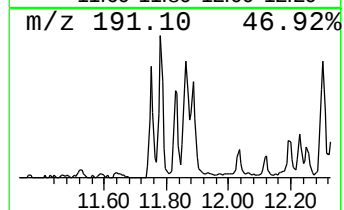
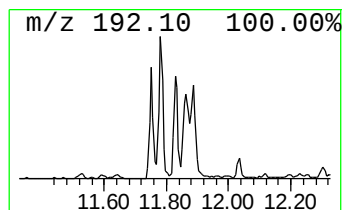
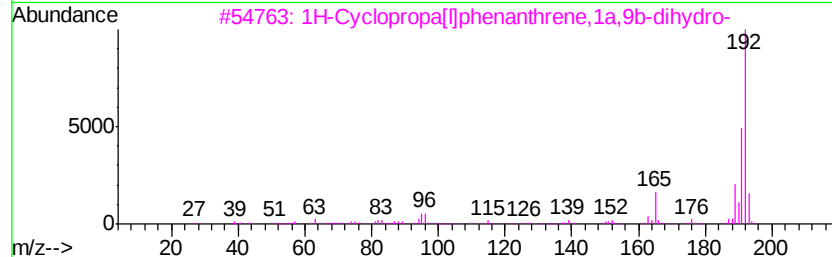
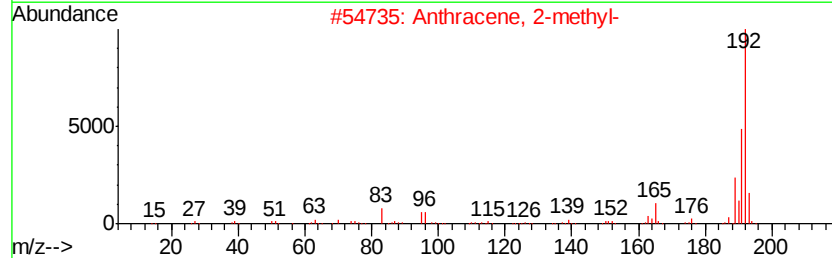
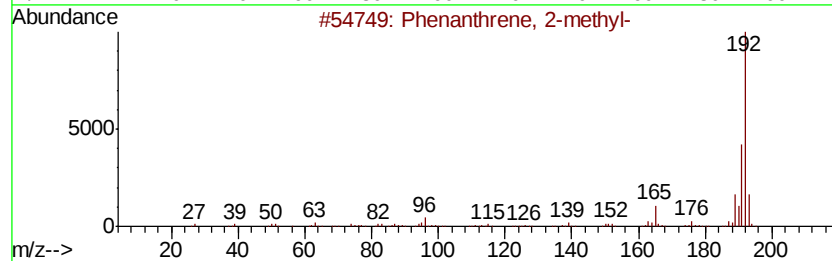
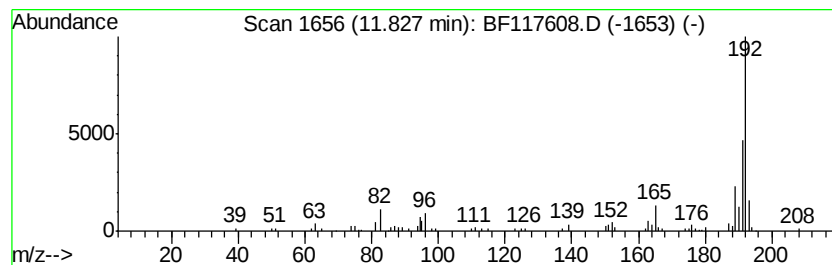
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	8.99 ng	92879	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5		Anthracene, 1-methyl-	192	C15H12	000610-48-0	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
Acq On : 29 Oct 2019 23:53
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Sample : K5576-14 5X
Misc :
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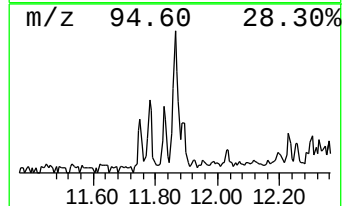
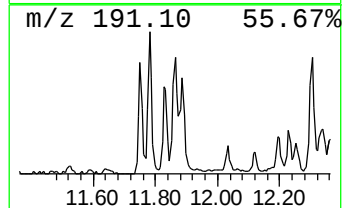
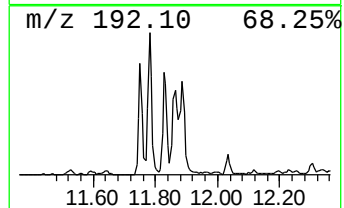
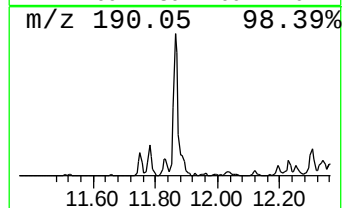
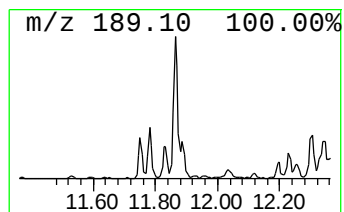
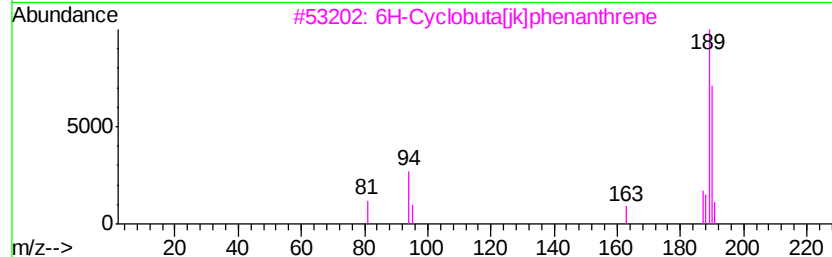
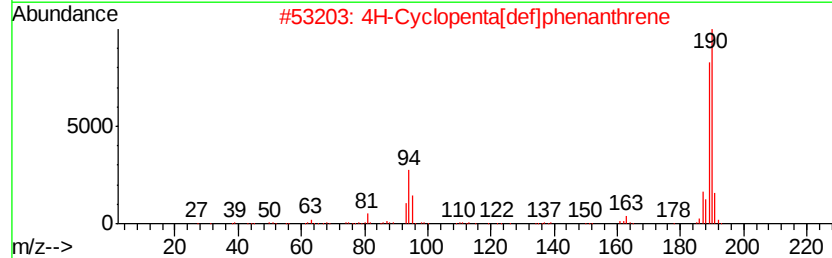
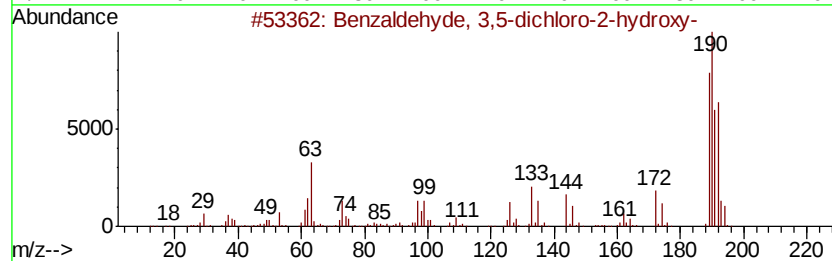
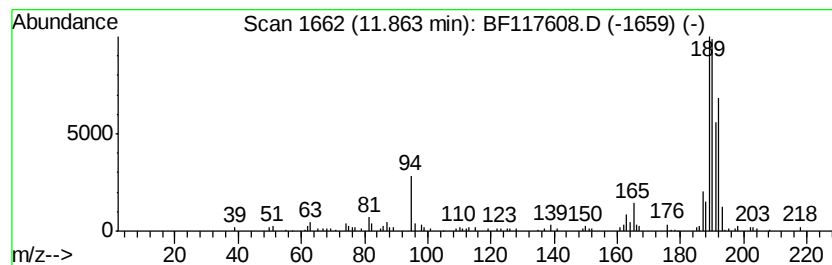
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ClientSampleId :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.86	20.85 ng	215368	Phenanthrene-d10	11.25	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	6H-Cyclobuta[f]kphenanthrene	190	C15H10	083469-43-6	58
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	43
5	Methyl diselenide	190	C2H6Se2	007101-31-7	41



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
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Sample : K5576-14 5X
Misc :
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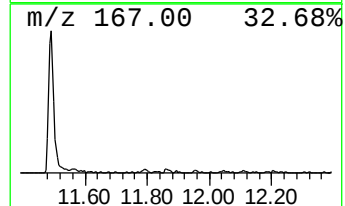
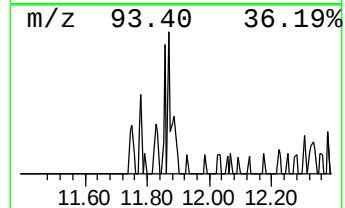
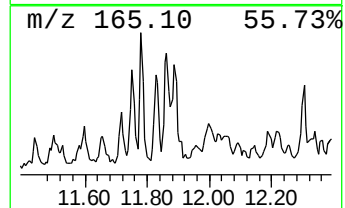
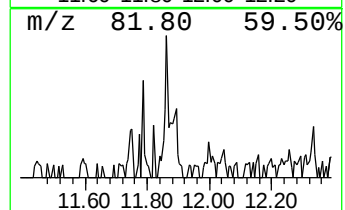
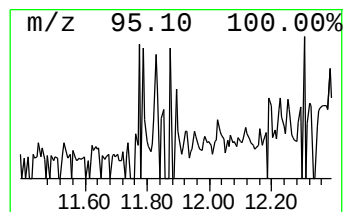
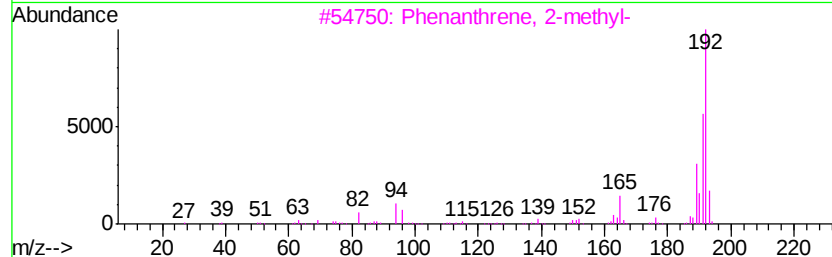
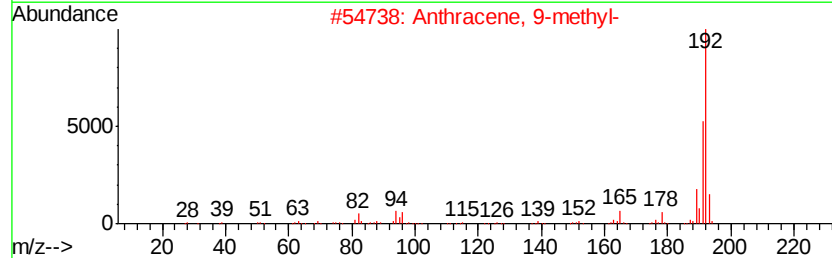
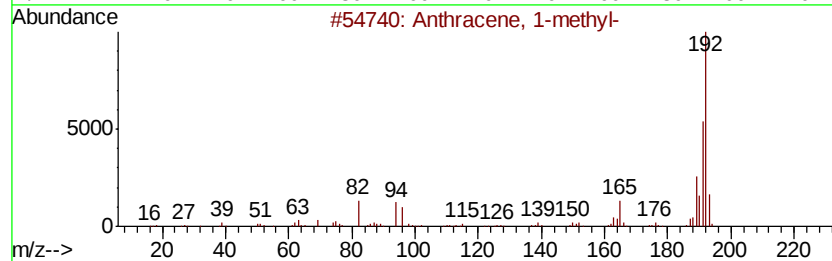
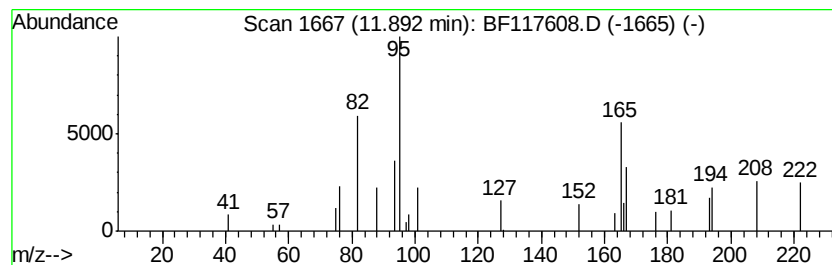
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ClientSampleId :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Anthracene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.89	6.87 ng	70939	Phenanthrene-d10		11.25
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	76
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	76



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
Acq On : 29 Oct 2019 23:53
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Misc :
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Instrument :
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ClientSampleId :
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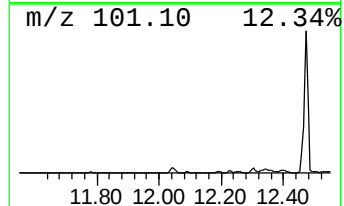
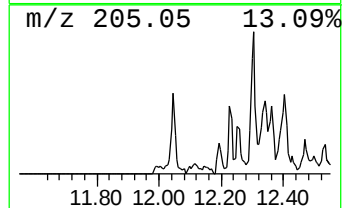
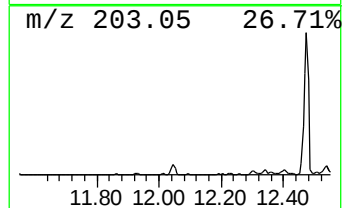
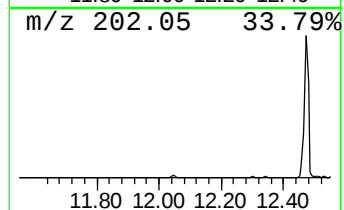
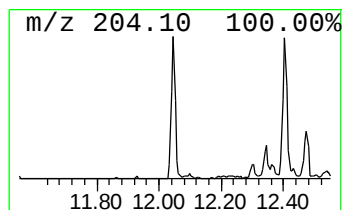
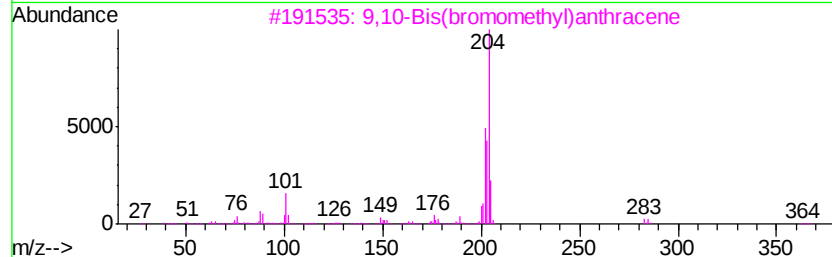
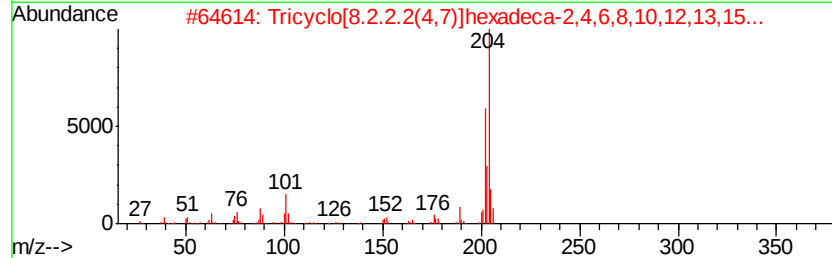
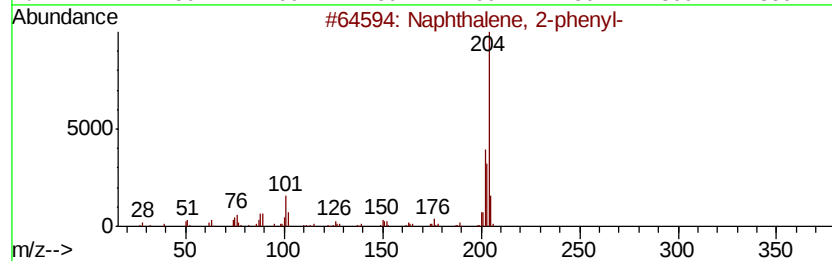
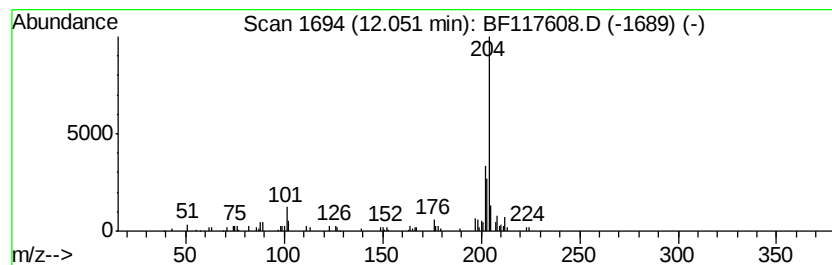
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	9.80 ng	101244	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
2		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
3		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
4		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
5		6-Cyanophenanthridine	204	C14H8N2	002176-28-5	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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ALS Vial : 29 Sample Multiplier: 1

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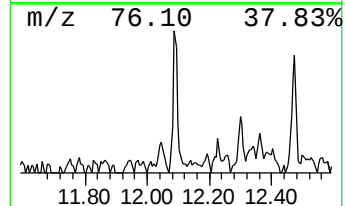
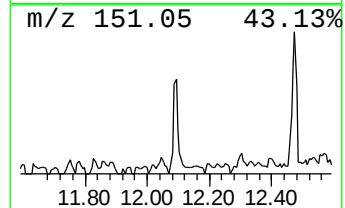
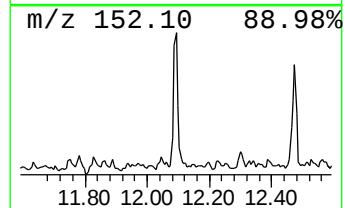
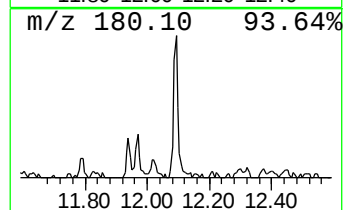
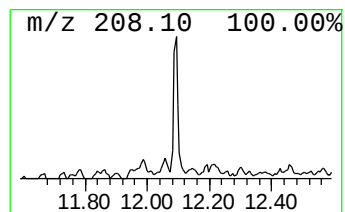
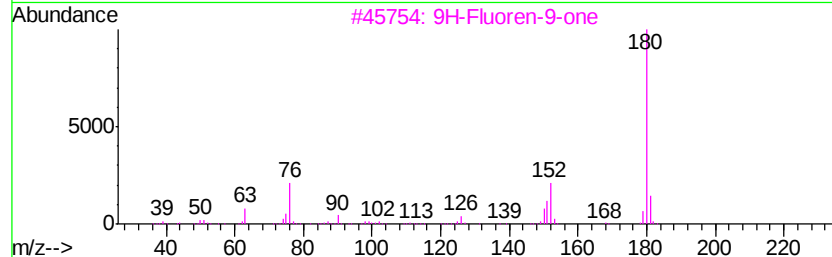
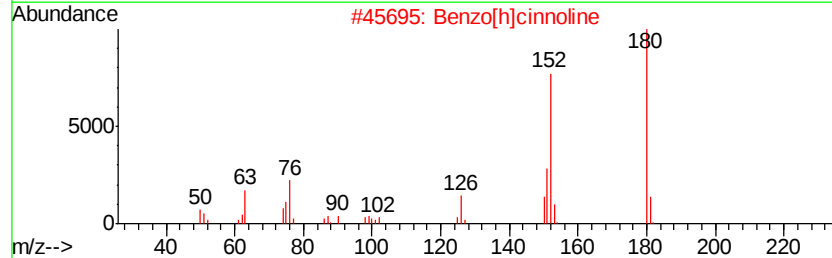
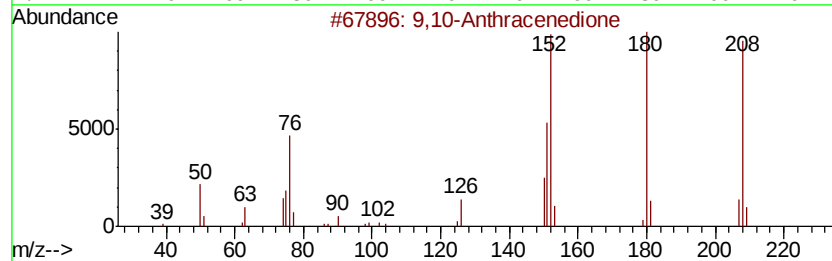
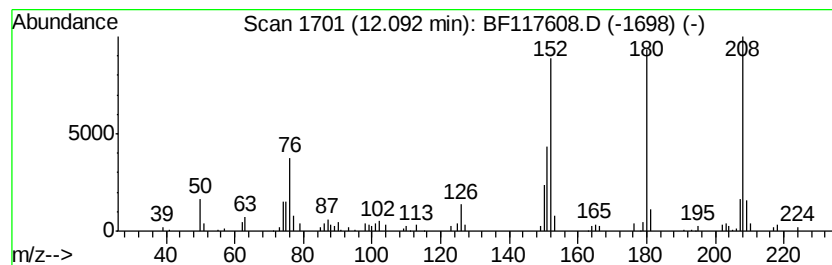
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.09	7.88 ng	81430	Phenanthrene-d10		11.25

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione			208	C14H8O2	000084-65-1	99
2	Benzo[h]cinnoline			180	C12H8N2	000230-31-9	78
3	9H-Fluoren-9-one			180	C13H8O	000486-25-9	64
4	1,4-Anthracenedione			208	C14H8O2	000635-12-1	50
5	Benzo[c]cinnoline			180	C12H8N2	000230-17-1	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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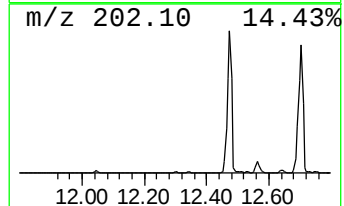
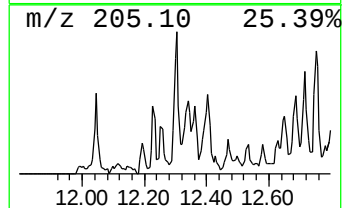
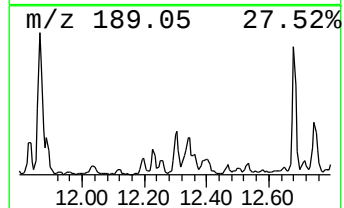
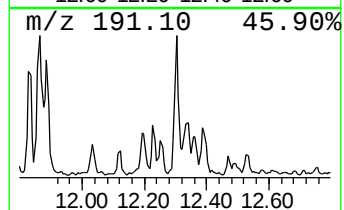
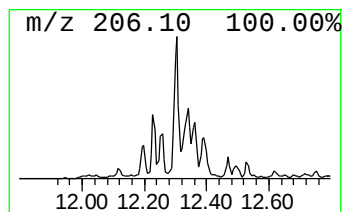
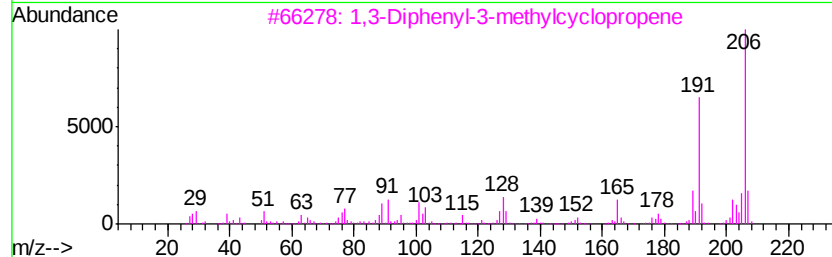
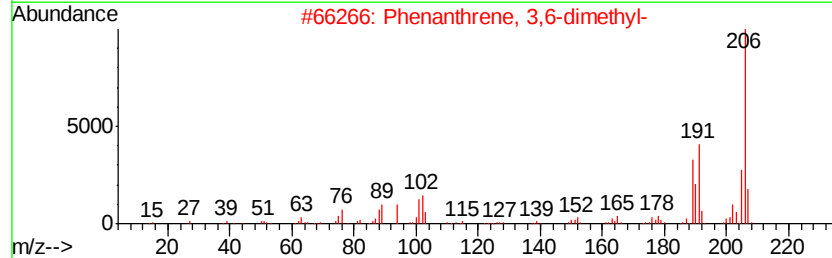
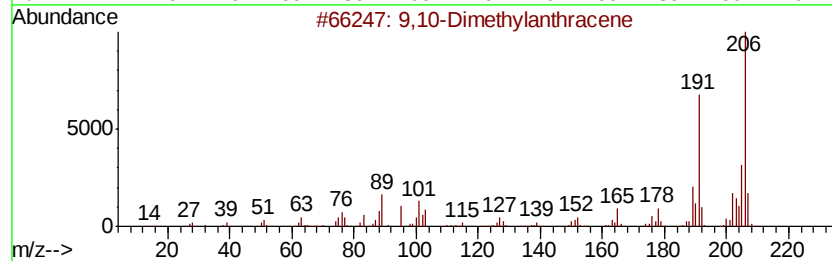
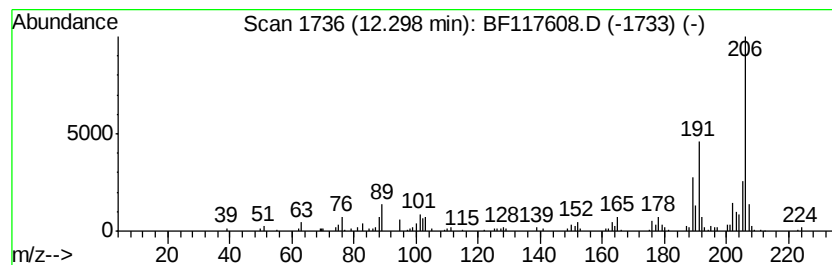
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 9,10-Dimethylantracene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	16.12 ng	166573	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Dimethylantracene	206	C16H14	000781-43-1	95
2		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3		1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	93
4		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
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Sample : K5576-14 5X
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ALS Vial : 29 Sample Multiplier: 1

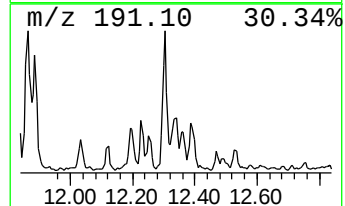
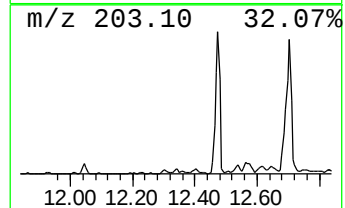
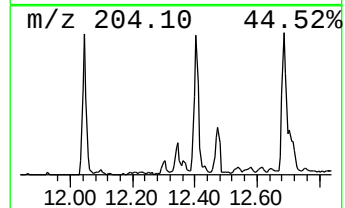
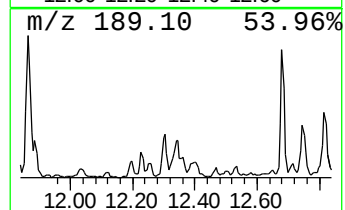
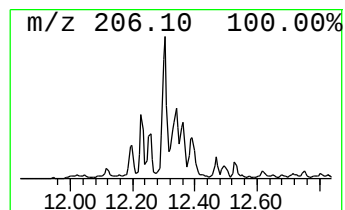
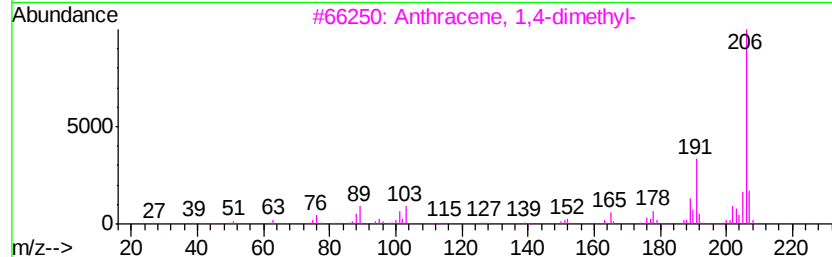
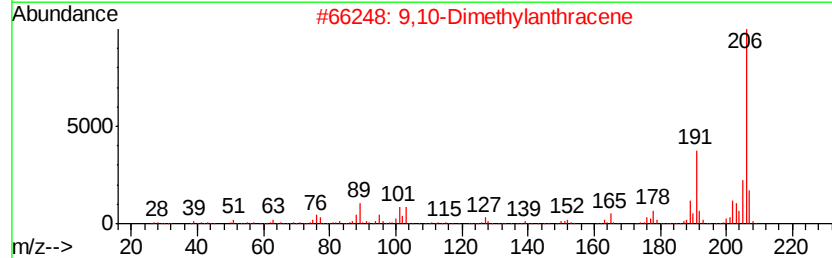
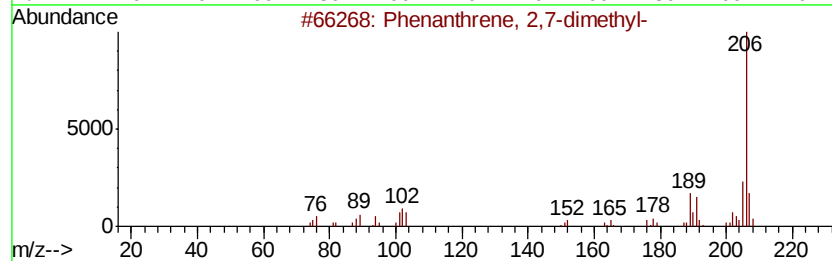
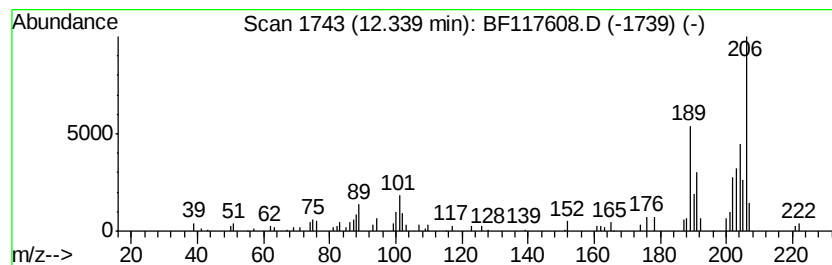
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ClientSampleId :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 2,7-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.34	10.45 ng	107973	Phenanthrene-d10	11.25	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	64
2	9,10-Dimethylantracene	206	C16H14	000781-43-1	49
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	45
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	45
5	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	45



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
Acq On : 29 Oct 2019 23:53
Operator : JU
Sample : K5576-14 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CSA-2-1-3

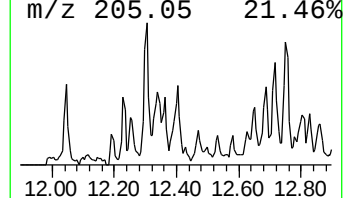
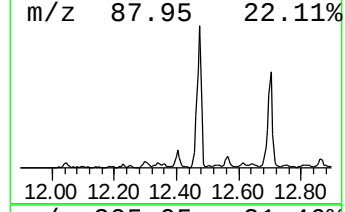
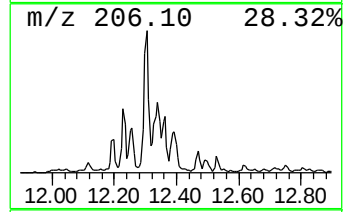
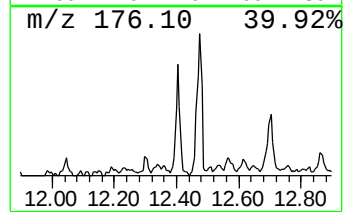
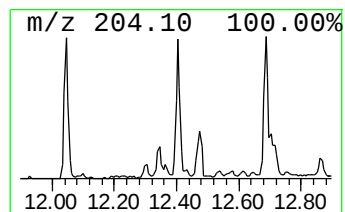
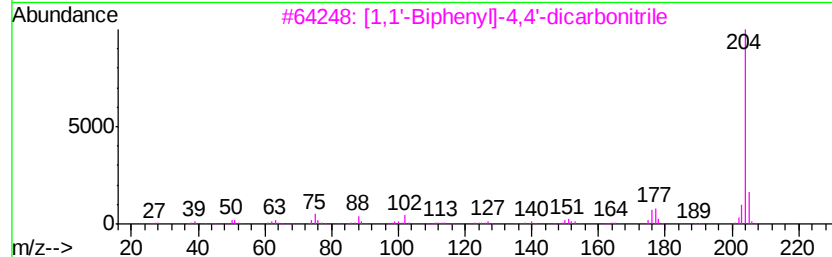
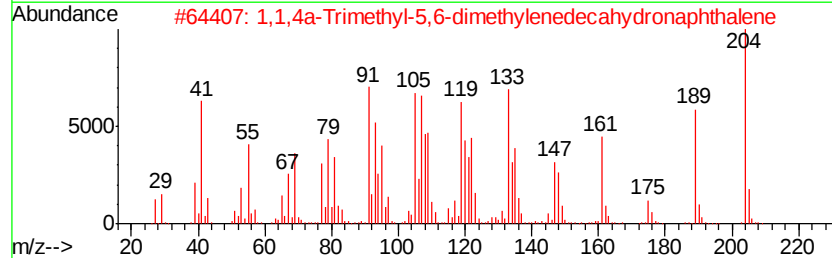
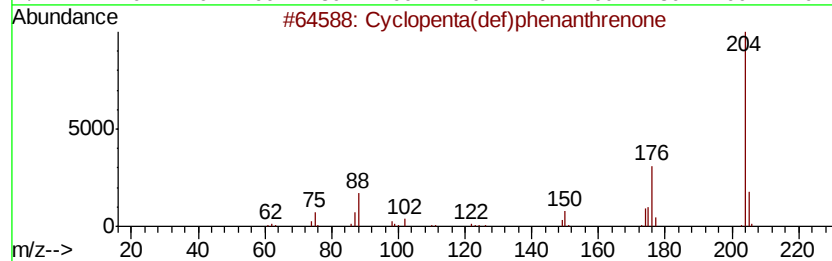
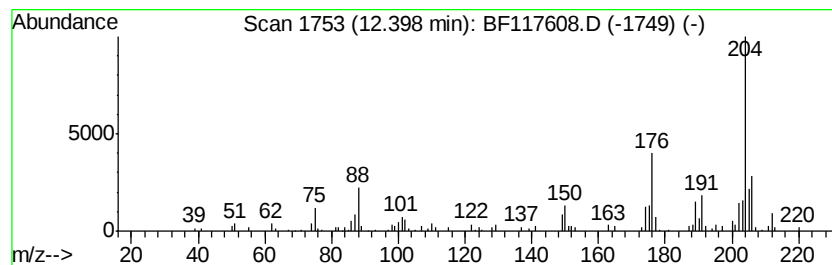
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	12.99 ng	134231	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2		1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	86
3		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4		1,4-Naphthalenedione, 2-hydroxy-...	204	C11H8O4	005257-83-0	47
5		4-Methyl-6,7-methylenedioxycoumarin	204	C11H8O4	015071-04-2	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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Sample : K5576-14 5X
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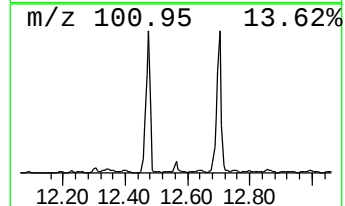
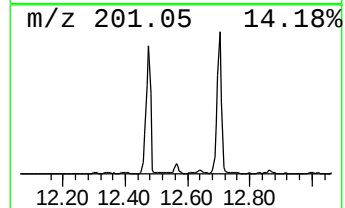
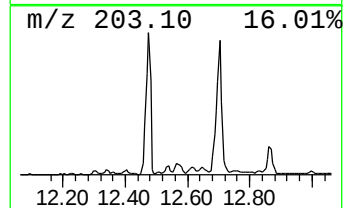
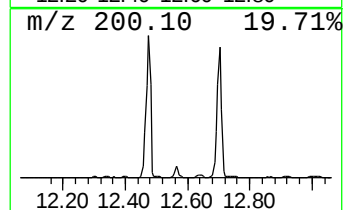
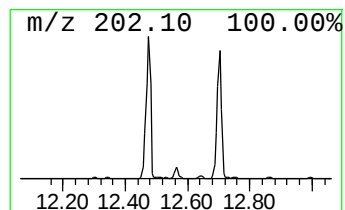
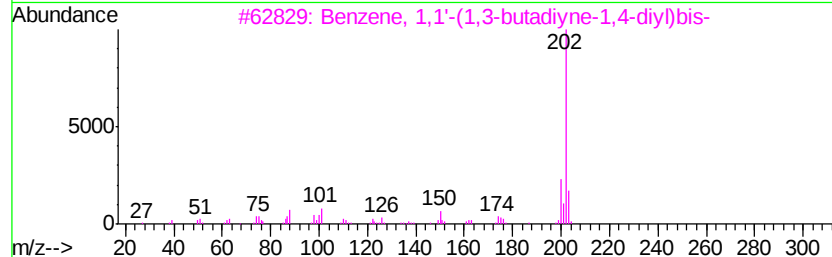
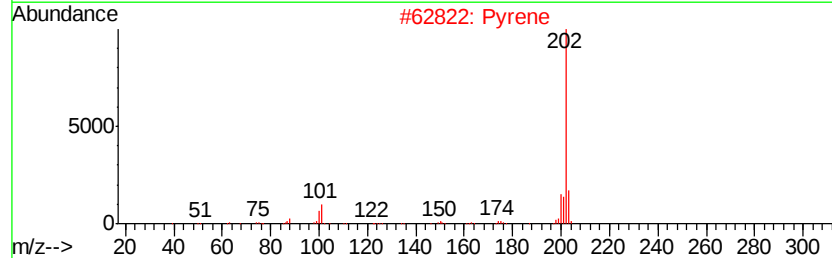
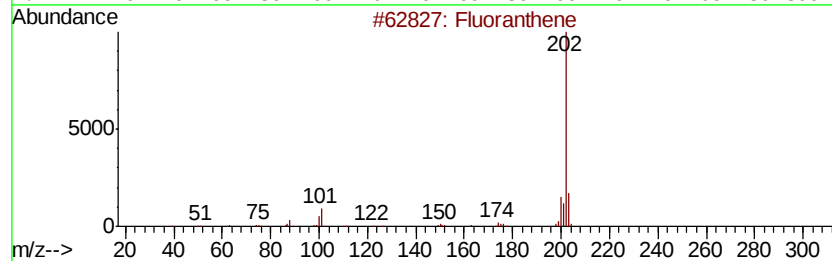
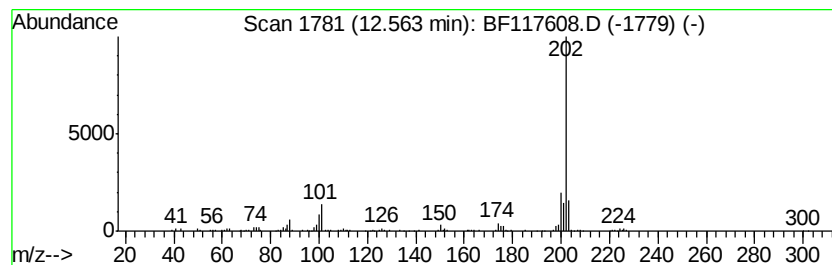
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.56	11.55 ng	119342	Phenanthrene-d10	11.25	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	93
2	Pyrene	202	C16H10	000129-00-0	87
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	64
4	7H-Furo[3,2-g][1]benzopyran-7-on...	202	C11H6O4	002009-24-7	40
5	l-Leucyl-l-leucine, N,N'-dimethy...	528	C29H56N2O6	1000328-59-7	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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Sample : K5576-14 5X
Misc :
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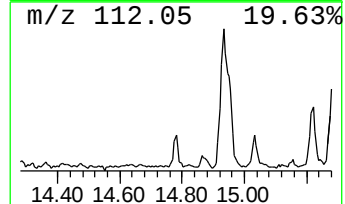
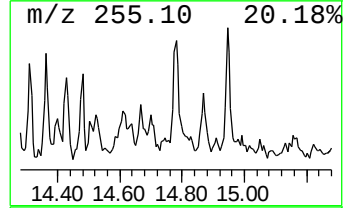
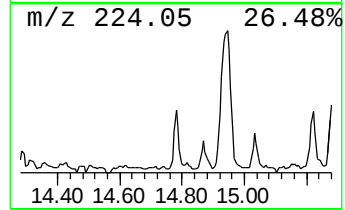
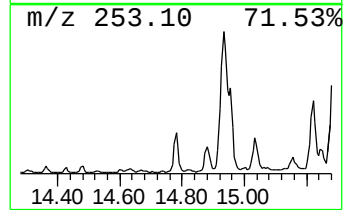
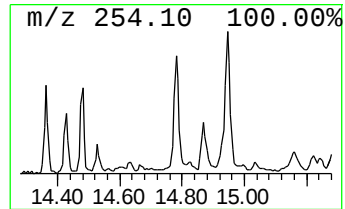
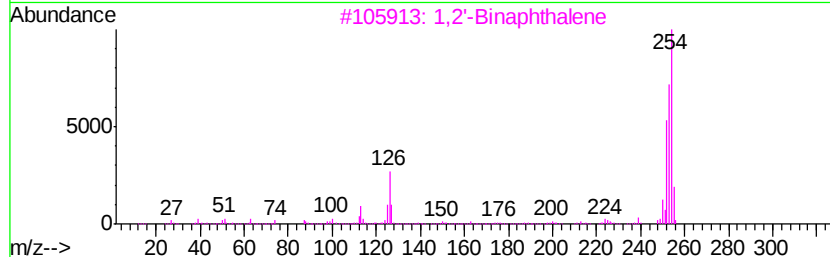
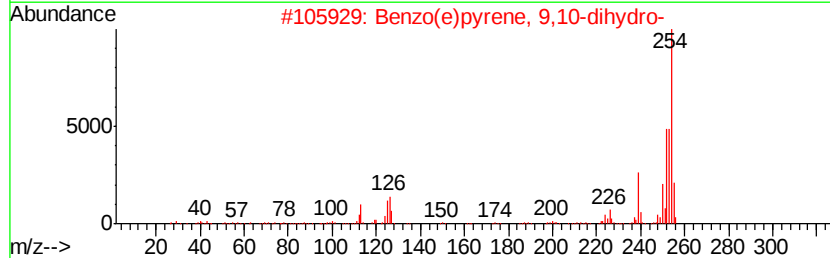
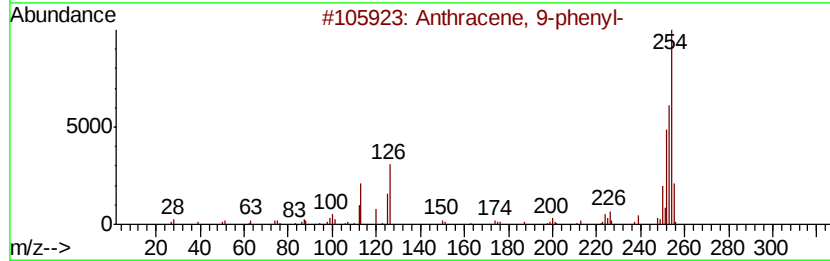
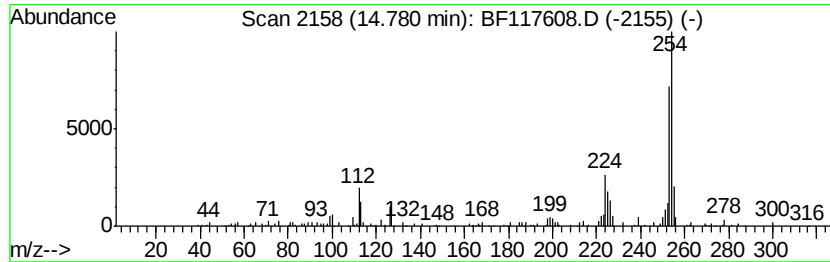
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Anthracene, 9-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.78	14.65 ng	94367	Perylene-d12	15.34	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	72
2	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	64
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	62
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	62
5	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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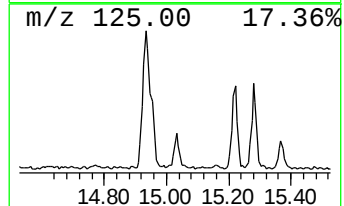
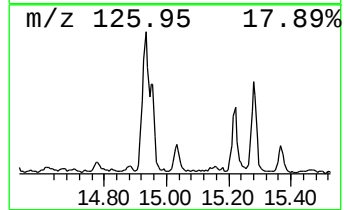
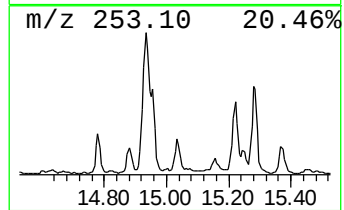
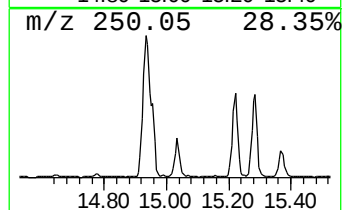
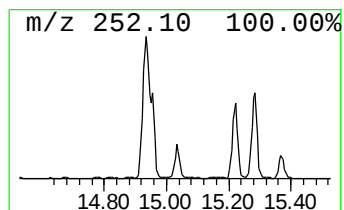
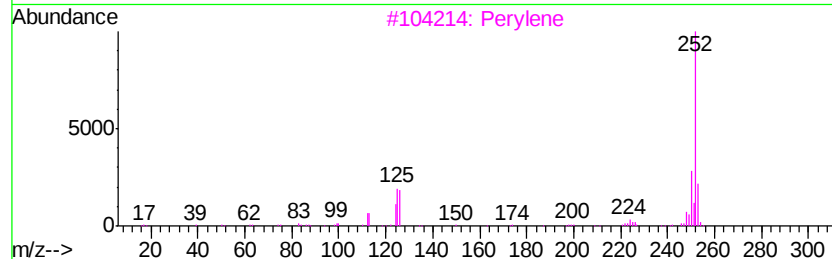
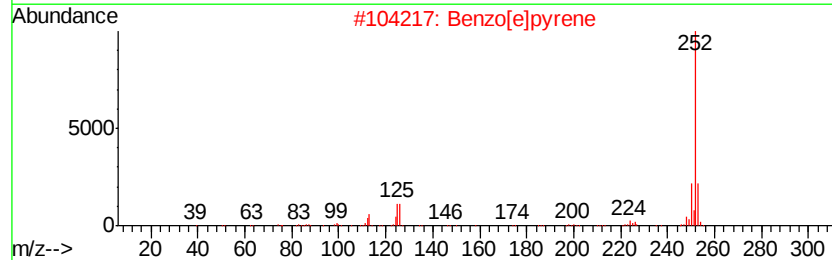
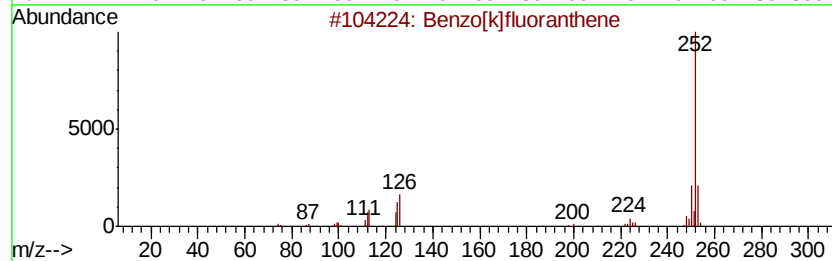
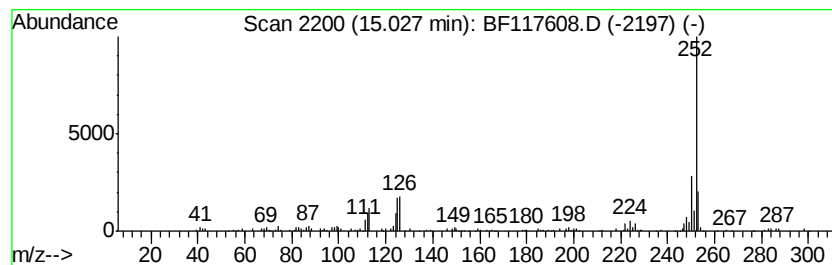
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	23.30 ng	150022	Perylene-d12	15.34

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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ALS Vial : 29 Sample Multiplier: 1

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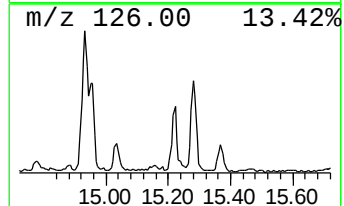
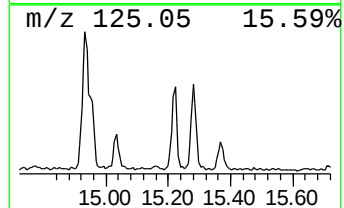
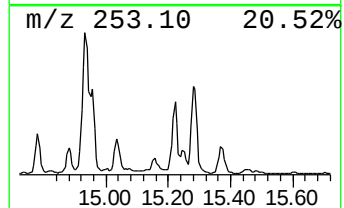
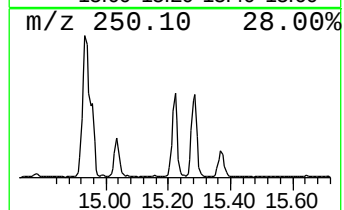
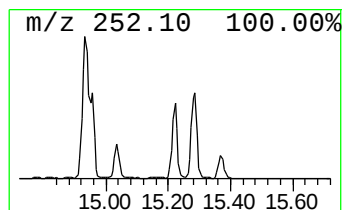
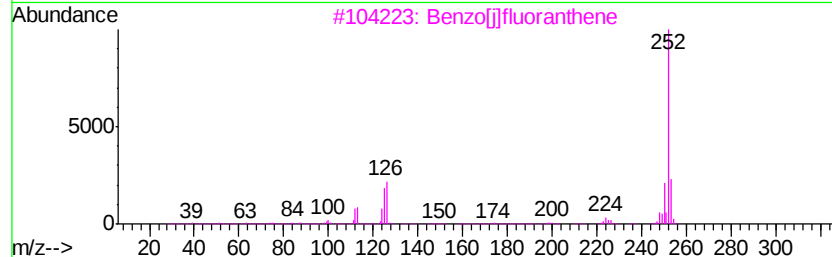
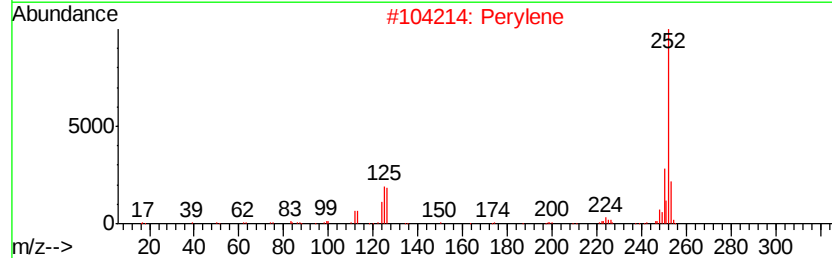
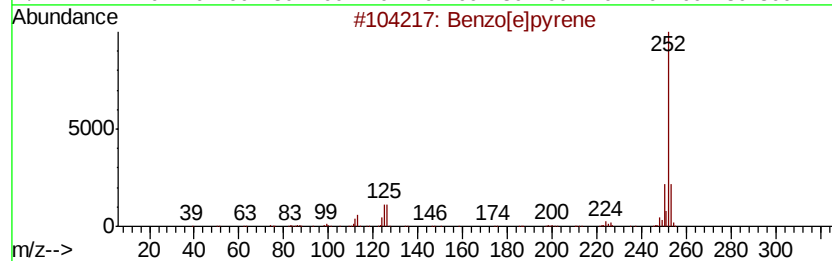
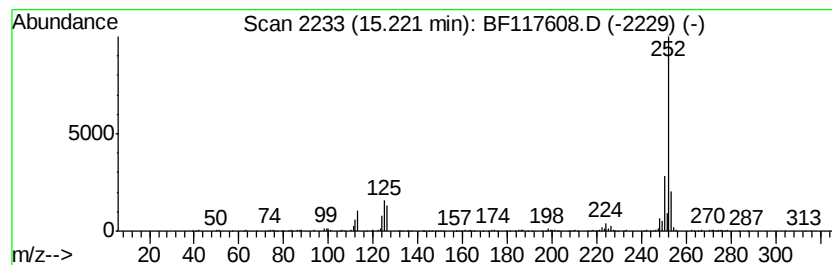
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.22	56.18 ng	361782	Perylene-d12	15.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[el]pyrene	252	C20H12	000192-97-2	99
2		Perylene	252	C20H12	000198-55-0	99
3		Benzo[i]fluoranthene	252	C20H12	000205-82-3	95
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	93
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93



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Misc :
ALS Vial : 29 Sample Multiplier: 1

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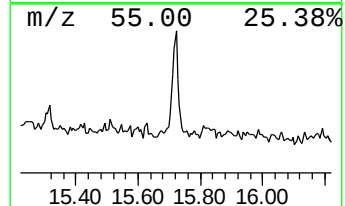
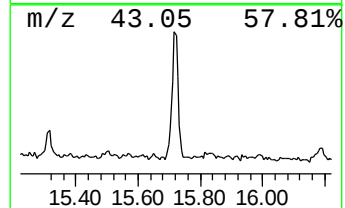
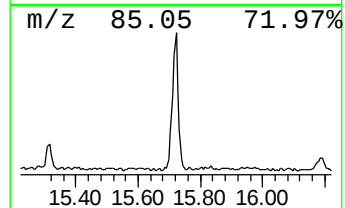
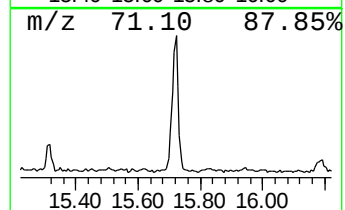
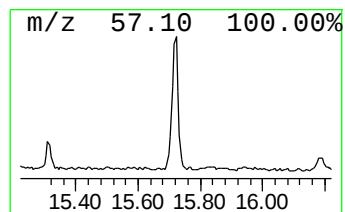
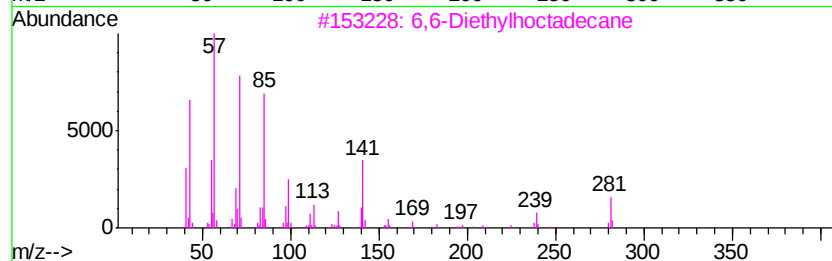
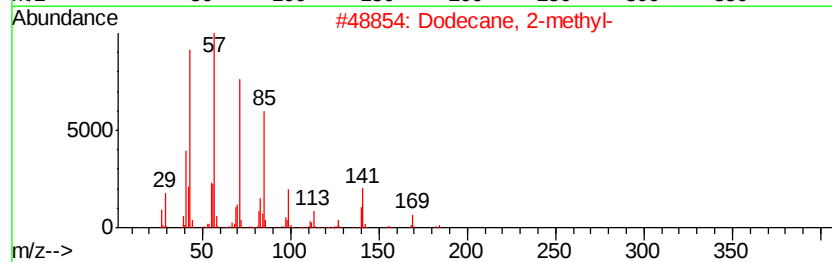
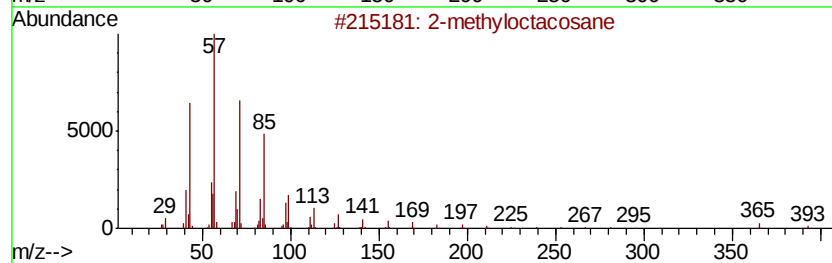
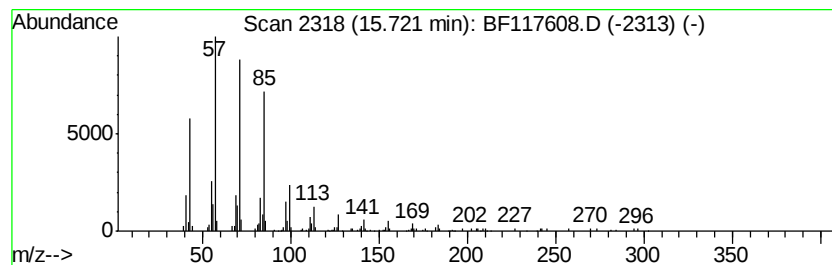
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 2-methyloctacosane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.72	33.78 ng	217569	Perylene-d12	15.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-methyloctacosane	408	C29H60	1000376-72-8	91
2		Dodecane, 2-methyl-	184	C13H28	001560-97-0	90
3		6,6-Diethyloctadecane	310	C22H46	1000360-41-8	90
4		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	89
5		Hexacosane	366	C26H54	000630-01-3	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
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Operator : JU
Sample : K5576-14 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

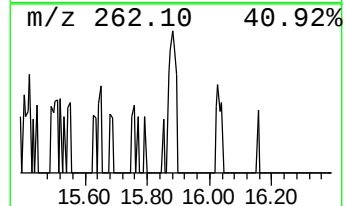
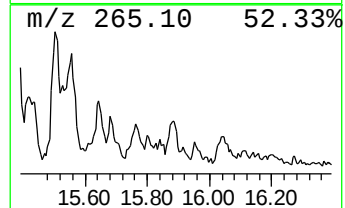
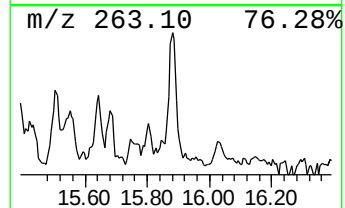
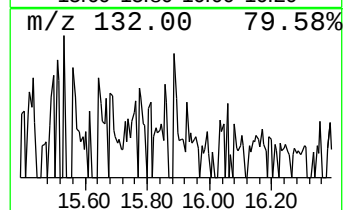
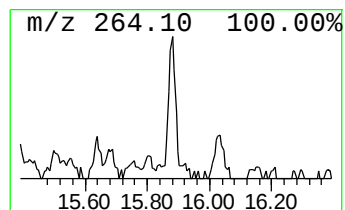
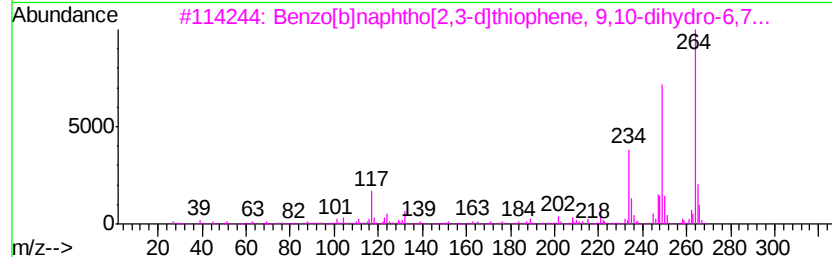
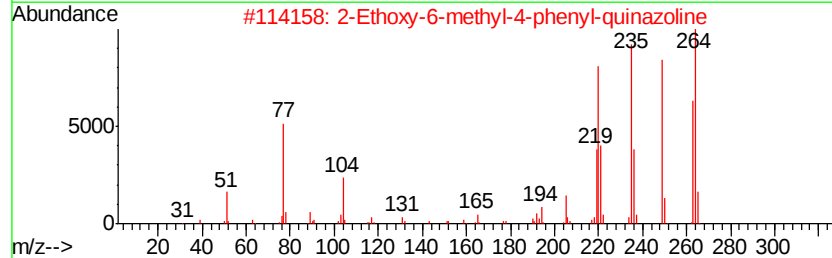
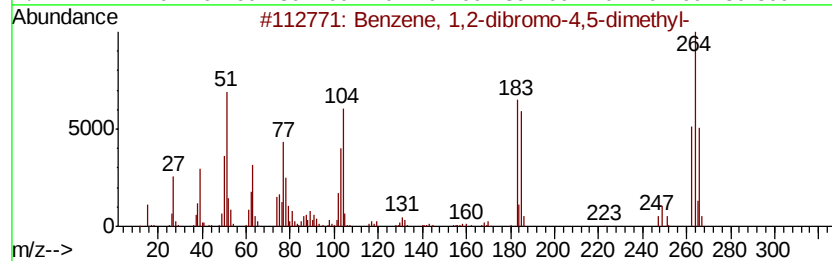
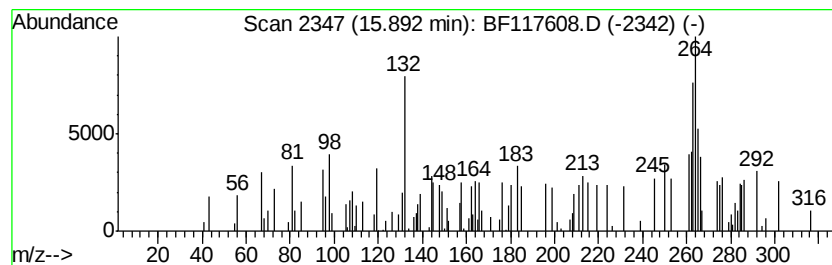
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 unknown15.89 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.89	6.20 ng	39916	Perylene-d12	15.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2-dibromo-4,5-dimethyl-	262	C8H8Br2	024932-48-7	22
2			2-Ethoxy-6-methyl-4-phenyl-quina...	264	C17H16N2O	1000318-42-5	22
3			Benzo[b]naphtho[2,3-d]thiophene,...	264	C18H16S	024964-02-1	18
4			2-(2-Methyl-1H-benzimidazol-5-y...	264	C15H12N4O	1000322-07-9	12
5			Quinoline, 2-[2-(4-chlorophenyl)]...	265	C17H12ClN	005392-19-8	12



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
Acq On : 29 Oct 2019 23:53
Operator : JU
Sample : K5576-14 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

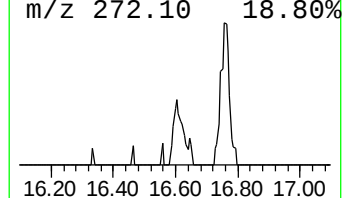
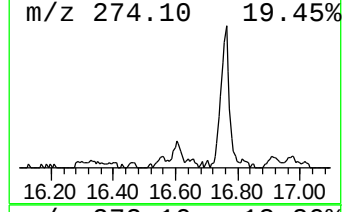
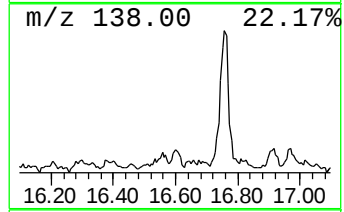
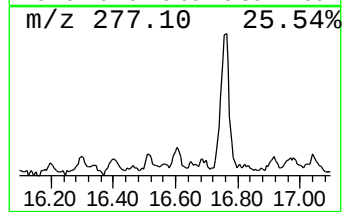
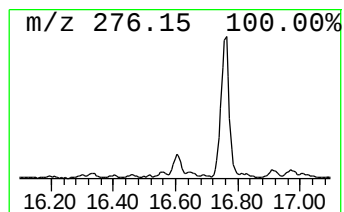
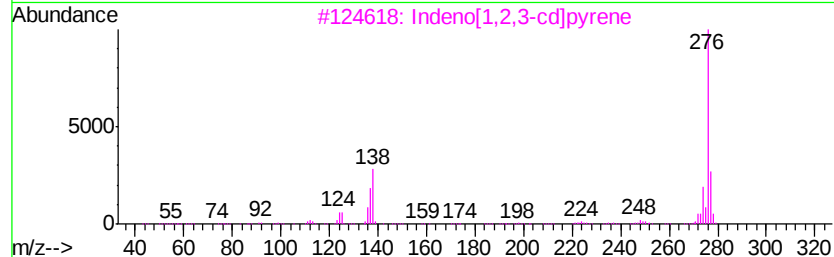
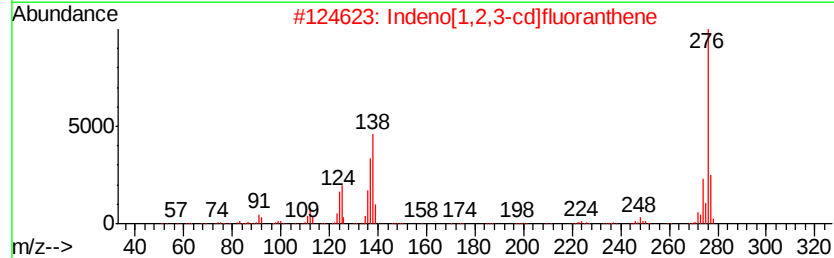
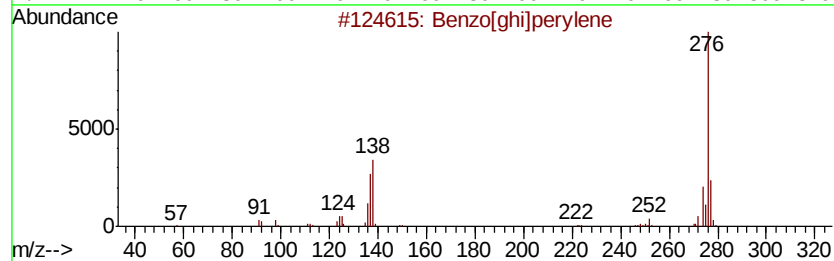
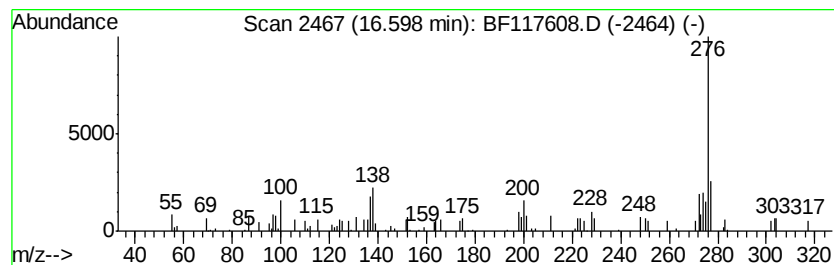
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Indeno[1,2,3-cd]fluoranthene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.60	6.20 ng	39936	Perylene-d12	15.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[ghi]perylene	276	C22H12	000191-24-2	64
2			Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	64
3			Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	58
4			Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	58
5			Benzofuro[3,2-d]pyrimidine, 4-me...	276	C17H12N2O2	312265-36-4	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117608.D
Acq On : 29 Oct 2019 23:53
Operator : JU
Sample : K5576-14 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-3

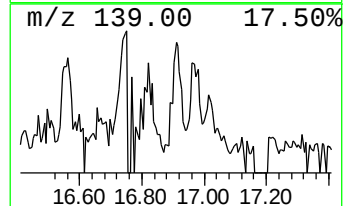
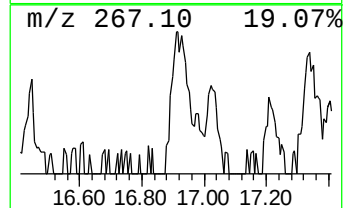
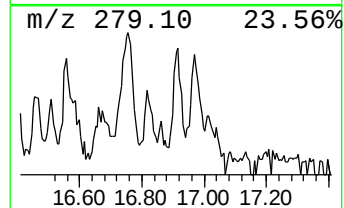
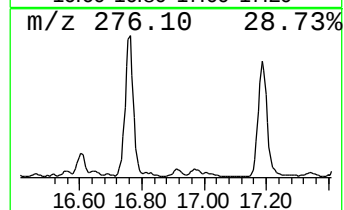
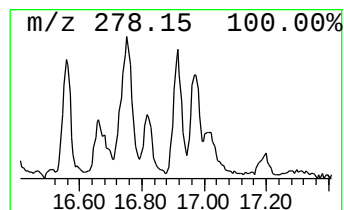
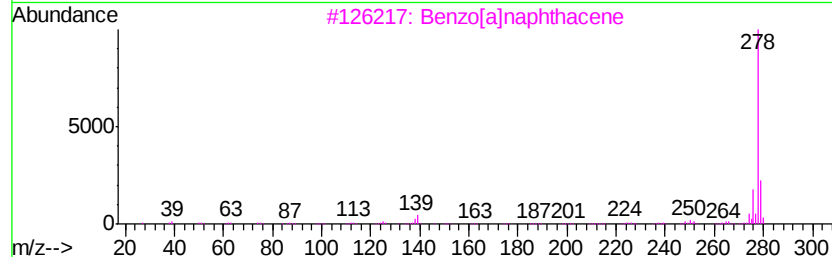
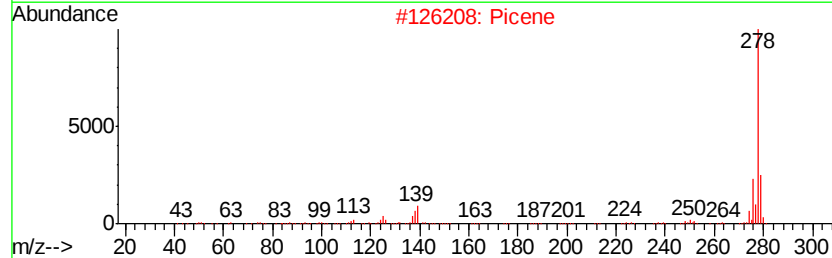
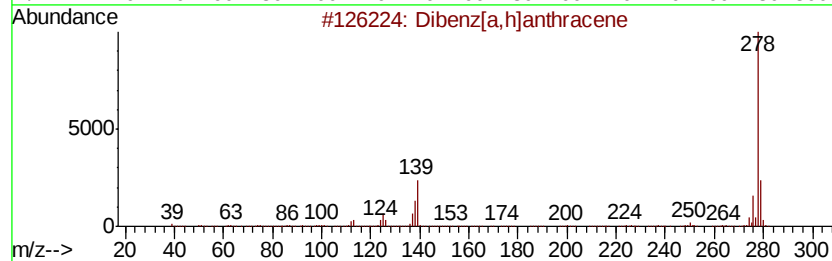
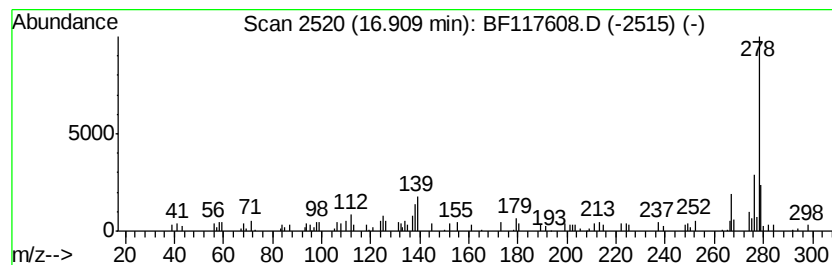
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Picene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.91	10.83 ng	69730	Perylene-d12	15.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
2		Picene	278	C22H14	000213-46-7	91
3		Benzo[a]naphthacene	278	C22H14	000226-88-0	70
4		Benzo[b]triphenylene	278	C22H14	000215-58-7	60
5		Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	60



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102919\
 Data File : BF117608.D
 Acq On : 29 Oct 2019 23:53
 Operator : JU
 Sample : K5576-14 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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
unknown6.51	6.51	15.2	ng	142602	1	6.73	187279	20.0
Phenanthrene, 1-m...	11.75	10.3	ng	106017	4	11.25	206637	20.0
Phenanthrene, 2-m...	11.78	14.4	ng	149340	4	11.25	206637	20.0
Anthracene, 2-met...	11.83	9.0	ng	92879	4	11.25	206637	20.0
Benzaldehyde, 3,5...	11.86	20.9	ng	215368	4	11.25	206637	20.0
Anthracene, 1-met...	11.89	6.9	ng	70939	4	11.25	206637	20.0
Naphthalene, 2-ph...	12.05	9.8	ng	101244	4	11.25	206637	20.0
9,10-Anthracenedione	12.09	7.9	ng	81430	4	11.25	206637	20.0
9,10-Dimethylanthe...	12.30	16.1	ng	166573	4	11.25	206637	20.0
Phenanthrene, 2,7...	12.34	10.4	ng	107973	4	11.25	206637	20.0
Cyclopenta(def)ph...	12.40	13.0	ng	134231	4	11.25	206637	20.0
Benzene, 1,1'-(1,...	12.56	11.6	ng	119342	4	11.25	206637	20.0
Anthracene, 9-phe...	14.78	14.7	ng	94367	6	15.34	128799	20.0
Benzo[e]pyrene	15.03	23.3	ng	150022	6	15.34	128799	20.0
Perylene	15.22	56.2	ng	361782	6	15.34	128799	20.0
2-methyloctacosane	15.72	33.8	ng	217569	6	15.34	128799	20.0
unknown15.89	15.89	6.2	ng	39916	6	15.34	128799	20.0
Indeno[1,2,3-cd]f...	16.60	6.2	ng	39936	6	15.34	128799	20.0
Picene	16.91	10.8	ng	69730	6	15.34	128799	20.0