

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
 Data File : BF118312.D
 Acq On : 26 Dec 2019 13:13
 Operator : JU
 Sample : K6414-08
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-02

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-BF122419.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	5.045	499	503	513	rVB	346074	411029	6.78%	0.577%
2	5.463	570	574	594	rBV	2262971	2257062	37.24%	3.171%
3	6.481	742	747	764	rBV	2556348	2469860	40.75%	3.470%
4	6.616	766	770	774	rBV	2975909	2579522	42.56%	3.624%
5	6.845	806	809	817	rBV	743919	671149	11.07%	0.943%
6	7.004	832	836	849	rBV	2424277	1989091	32.82%	2.795%
7	7.410	901	905	918	rBV	1507123	1471122	24.27%	2.067%
8	8.133	1025	1028	1030	rBV	1097460	905117	14.93%	1.272%
9	8.157	1030	1032	1039	rVB	611553	496840	8.20%	0.698%
10	8.851	1146	1150	1156	rBV	404607	330177	5.45%	0.464%
11	8.951	1163	1167	1176	rVB	340361	318548	5.26%	0.448%
12	9.210	1207	1211	1215	rBV	3296667	3023383	49.89%	4.248%
13	9.316	1226	1229	1233	rBV	110060	93248	1.54%	0.131%
14	9.410	1242	1245	1251	rVB	80143	85488	1.41%	0.120%
15	9.486	1251	1258	1262	rBV2	200242	265300	4.38%	0.373%
16	9.551	1266	1269	1272	rVV	306582	299786	4.95%	0.421%
17	9.580	1272	1274	1276	rVV	183435	152684	2.52%	0.215%
18	9.604	1276	1278	1283	rVV	203347	186169	3.07%	0.262%
19	9.669	1286	1289	1295	rBV	149916	172304	2.84%	0.242%
20	9.898	1321	1328	1330	rBV	1268975	1208540	19.94%	1.698%
21	9.928	1330	1333	1337	rVB	871826	707433	11.67%	0.994%
22	10.098	1359	1362	1366	rVV	648845	646011	10.66%	0.908%
23	10.139	1366	1369	1373	rVB	112169	106954	1.76%	0.150%
24	10.210	1378	1381	1384	rBV	91825	92987	1.53%	0.131%
25	10.245	1384	1387	1393	rVB	91430	86426	1.43%	0.121%
26	10.304	1393	1397	1399	rBV	90682	103351	1.71%	0.145%
27	10.445	1417	1421	1426	rBV	978556	830919	13.71%	1.167%
28	10.604	1445	1448	1453	rVB	263513	249802	4.12%	0.351%
29	10.686	1458	1462	1467	rVV	2666937	2577187	42.52%	3.621%
30	10.810	1478	1483	1489	rVB5	70779	104906	1.73%	0.147%
31	10.998	1508	1515	1517	rBV3	187313	291247	4.81%	0.409%
32	11.122	1531	1536	1538	rBV3	137859	155999	2.57%	0.219%
33	11.145	1538	1540	1545	rVV2	138422	169546	2.80%	0.238%
34	11.198	1545	1549	1552	rVV	558844	532184	8.78%	0.748%

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 Integrator: RTE
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 Sampling : 1
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If leading or trailing edge < 100 prefer < Baseline drop else tangent >
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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.233	1552	1555	1561	rVV2	139204	216998	3.58%	0.305%
36	11.286	1561	1564	1569	rVB	433243	398269	6.57%	0.560%
37	11.392	1578	1582	1583	rBV	1226506	1187224	19.59%	1.668%
38	11.422	1583	1587	1590	rVV	6403210	6060407	100.00%	8.515%
39	11.469	1590	1595	1598	rVV	1950337	1690214	27.89%	2.375%
40	11.504	1598	1601	1606	rVB3	95924	124735	2.06%	0.175%
41	11.622	1616	1621	1629	rBV	775653	826819	13.64%	1.162%
42	11.680	1629	1631	1636	rVV4	89196	89105	1.47%	0.125%
43	11.722	1636	1638	1643	rVB3	150797	183384	3.03%	0.258%
44	11.892	1662	1667	1669	rBV	722592	642462	10.60%	0.903%
45	11.921	1669	1672	1676	rVV	1086799	1100351	18.16%	1.546%
46	11.969	1676	1680	1683	rVV	334541	298870	4.93%	0.420%
47	12.004	1683	1686	1689	rVV	792173	913855	15.08%	1.284%
48	12.027	1689	1690	1694	rVB	423365	249737	4.12%	0.351%
49	12.074	1695	1698	1700	rBV2	84606	93293	1.54%	0.131%
50	12.186	1714	1717	1720	rVV	435148	344785	5.69%	0.484%
51	12.216	1720	1722	1727	rVB	297685	280153	4.62%	0.394%
52	12.339	1737	1743	1746	rBV4	135640	176565	2.91%	0.248%
53	12.369	1746	1748	1750	rVV	143281	107089	1.77%	0.150%
54	12.392	1750	1752	1755	rVB	128978	103608	1.71%	0.146%
55	12.445	1755	1761	1763	rBV	285522	308063	5.08%	0.433%
56	12.480	1763	1767	1769	rVV3	152611	224942	3.71%	0.316%
57	12.533	1773	1776	1781	rVB	268819	290429	4.79%	0.408%
58	12.616	1785	1790	1793	rBV	4972457	4598476	75.88%	6.461%
59	12.674	1798	1800	1802	rVB	120062	93180	1.54%	0.131%
60	12.698	1802	1804	1808	rBV2	120894	135816	2.24%	0.191%
61	12.757	1808	1814	1818	rVB3	137159	192389	3.17%	0.270%
62	12.845	1822	1829	1832	rBV2	3500969	3892781	64.23%	5.469%
63	12.886	1834	1836	1841	rVB2	203559	220459	3.64%	0.310%
64	12.980	1844	1852	1855	rBV	3996253	3624772	59.81%	5.093%
65	13.057	1860	1865	1869	rBV3	213903	395938	6.53%	0.556%
66	13.145	1876	1880	1881	rBV2	208214	230760	3.81%	0.324%
67	13.168	1881	1884	1887	rVV	374048	366345	6.04%	0.515%
68	13.233	1892	1895	1897	rVV	141992	115934	1.91%	0.163%
69	13.274	1897	1902	1905	rVV2	283012	355225	5.86%	0.499%
70	13.363	1914	1917	1920	rBV	125816	114295	1.89%	0.161%
71	13.398	1920	1923	1926	rBV3	144046	153279	2.53%	0.215%

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72	13.551	1945	1949	1954	rBV6	116700	206762	3.41%	0.291%
73	13.680	1968	1971	1975	rBV	442632	382790	6.32%	0.538%
74	13.786	1986	1989	1992	rBV2	333961	360978	5.96%	0.507%
75	13.815	1992	1994	1997	rVV	253941	229494	3.79%	0.322%
76	13.845	1997	1999	2000	rVV	159769	155683	2.57%	0.219%
77	13.886	2001	2006	2014	rVB2	506748	938413	15.48%	1.318%
78	14.039	2024	2032	2035	rBV2	1939523	2950152	48.68%	4.145%
79	14.068	2035	2037	2045	rVB	1516075	1299941	21.45%	1.826%
80	14.151	2048	2051	2053	rVB	122569	98688	1.63%	0.139%
81	14.192	2056	2058	2063	rVV4	131452	196178	3.24%	0.276%
82	14.233	2063	2065	2067	rVV	109917	100319	1.66%	0.141%
83	14.268	2067	2071	2074	rVB2	131070	166955	2.75%	0.235%
84	14.392	2089	2092	2094	rBV3	114001	110968	1.83%	0.156%
85	14.433	2096	2099	2101	rVV	261616	253589	4.18%	0.356%
86	14.463	2101	2104	2107	rVB	141004	107159	1.77%	0.151%
87	14.504	2107	2111	2114	rBV2	162198	215328	3.55%	0.303%
88	14.745	2150	2152	2155	rBV	78006	90502	1.49%	0.127%
89	14.810	2160	2163	2167	rVV2	123414	141533	2.34%	0.199%
90	14.927	2180	2183	2190	rVB2	111864	177128	2.92%	0.249%
91	15.098	2207	2212	2215	rBV	1063912	1730130	28.55%	2.431%
92	15.151	2219	2221	2227	rVB3	144776	182350	3.01%	0.256%
93	15.204	2227	2230	2234	rBV	195761	200309	3.31%	0.281%
94	15.404	2260	2264	2270	rVB	573927	712758	11.76%	1.001%
95	15.468	2270	2275	2279	rBV	815813	974282	16.08%	1.369%
96	15.527	2281	2285	2289	rBV	831898	1130982	18.66%	1.589%
97	15.980	2357	2362	2366	rBV2	121597	178496	2.95%	0.251%
98	17.027	2534	2540	2547	rVB2	372945	749036	12.36%	1.052%
99	17.209	2566	2571	2575	rVB	86238	146117	2.41%	0.205%
100	17.480	2611	2617	2627	rVB	272071	544926	8.99%	0.766%

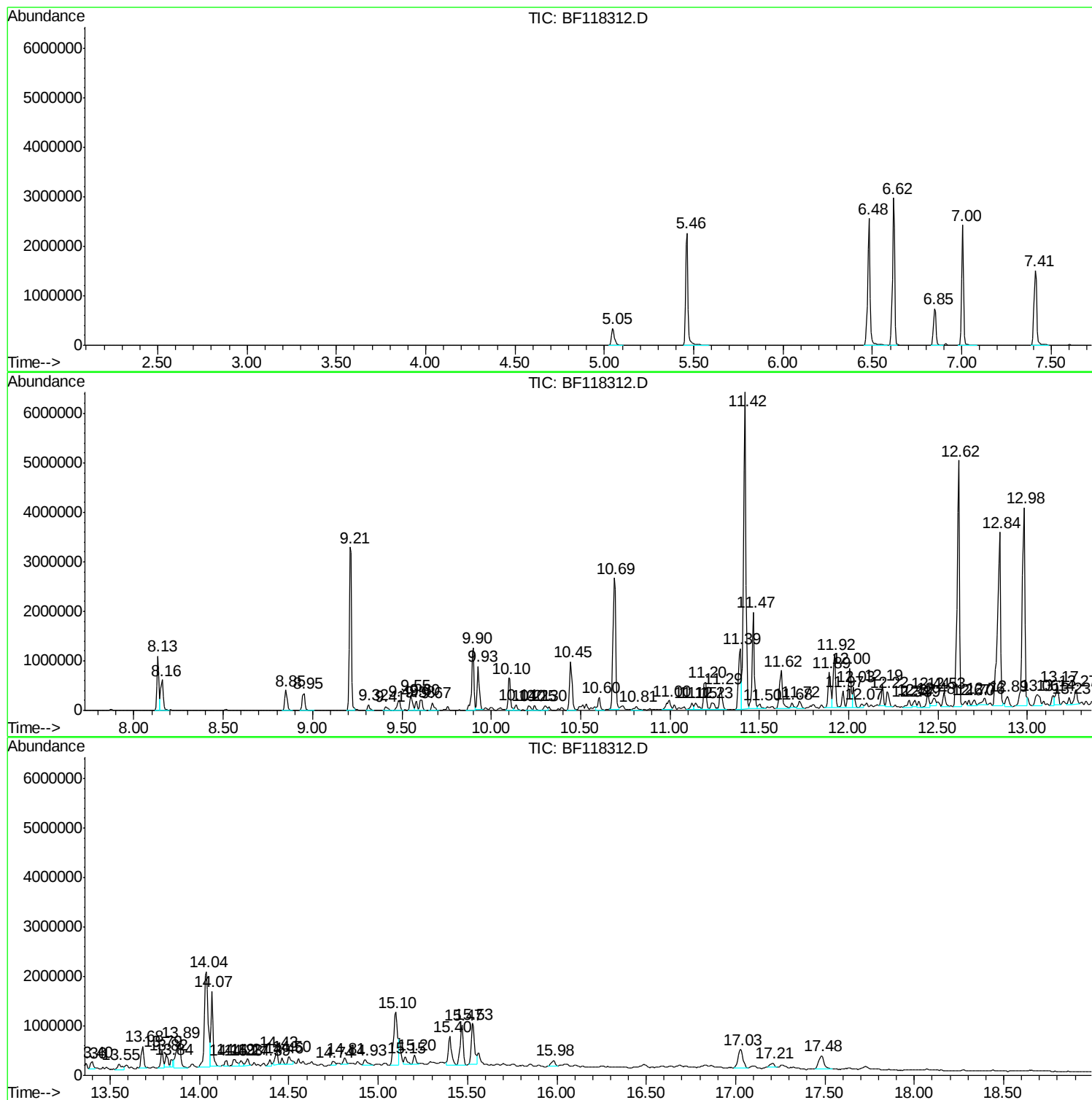
Sum of corrected areas: 71174323

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Instrument :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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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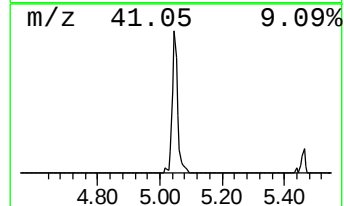
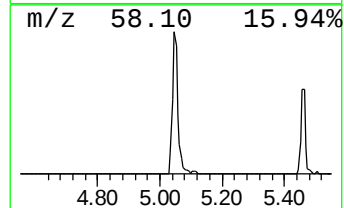
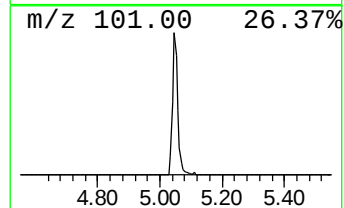
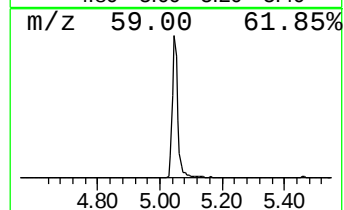
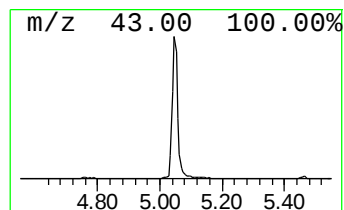
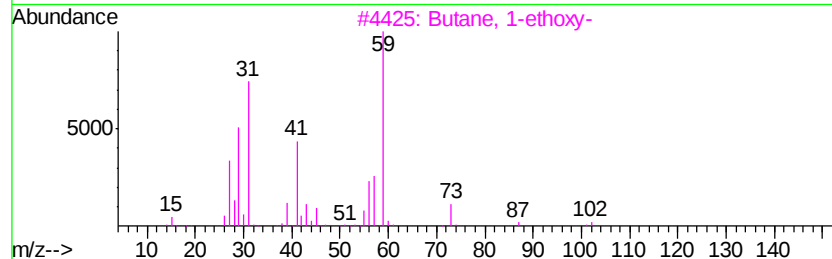
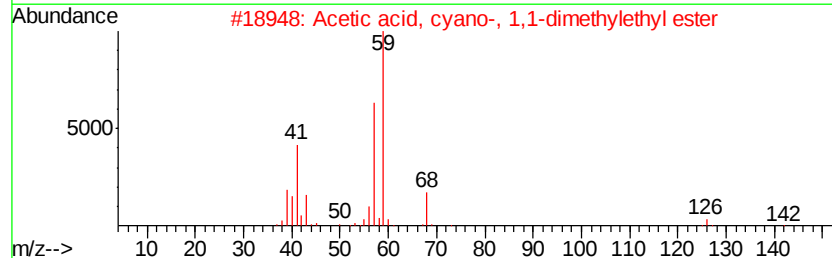
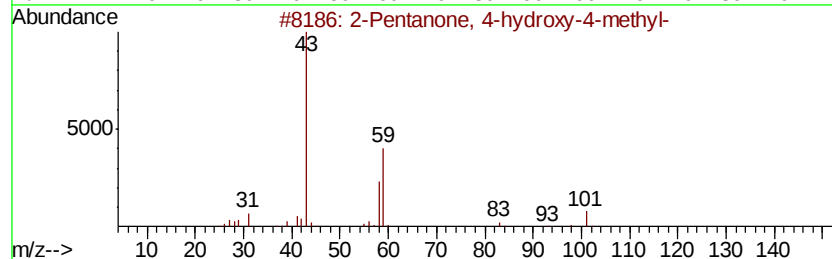
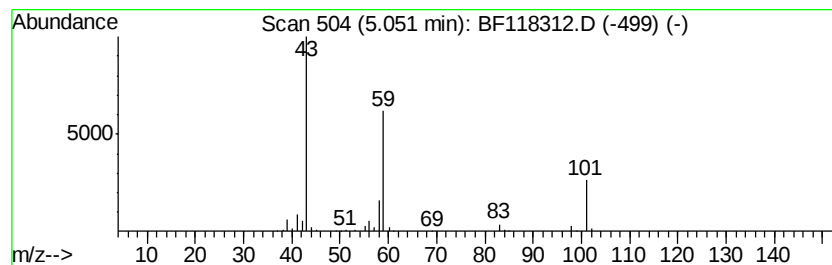
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.05	12.25 ng	411029	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2		Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	17
3		Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
4		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5		5-Hexen-2-one	98	C6H10O	000109-49-9	9



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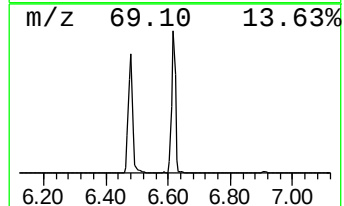
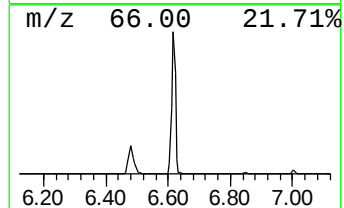
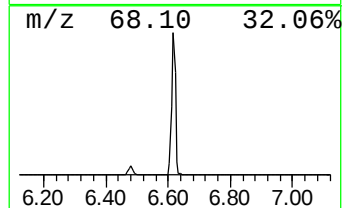
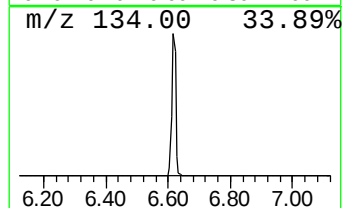
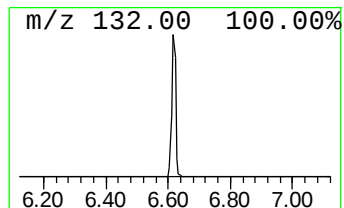
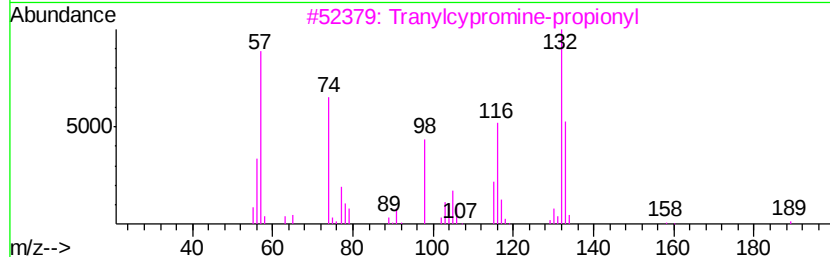
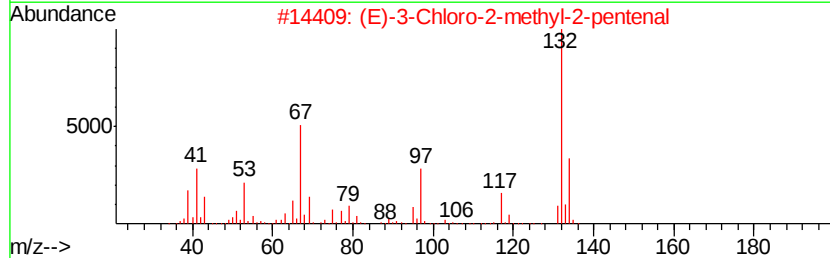
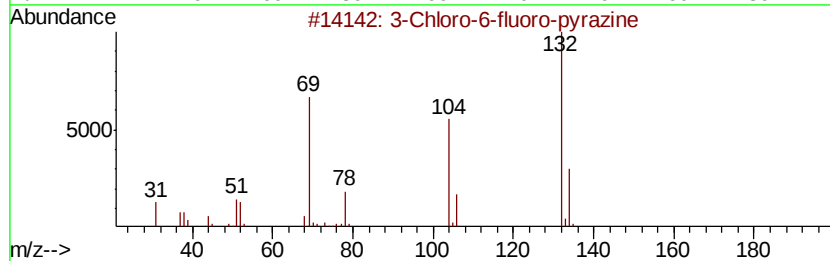
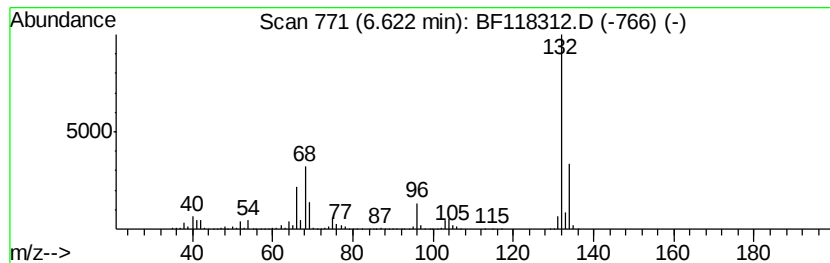
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	76.87 ng	2579520	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3		Tranvlcypropane-propionyl	189	C12H15NO	1000123-86-3	12
4		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9



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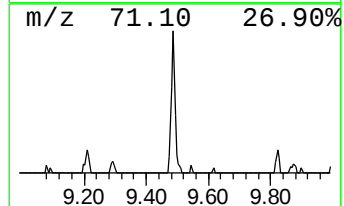
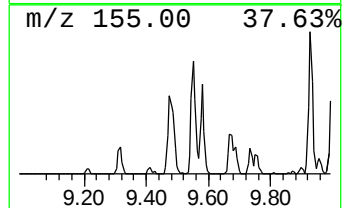
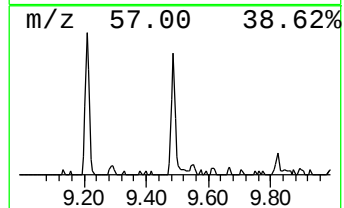
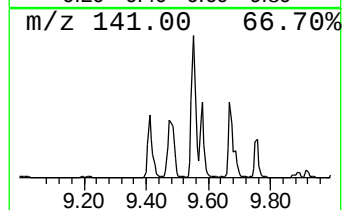
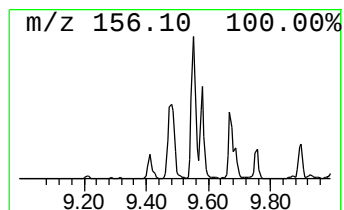
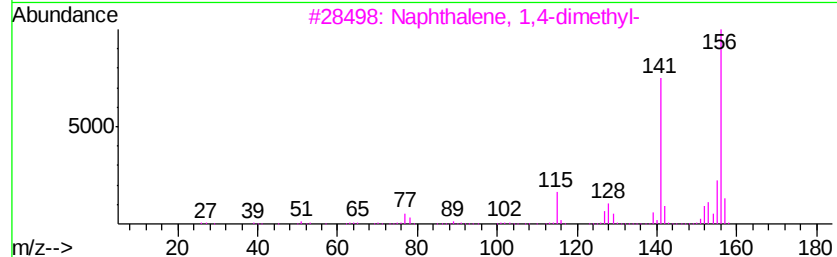
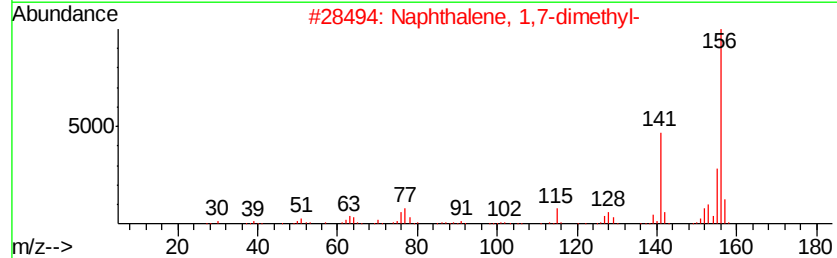
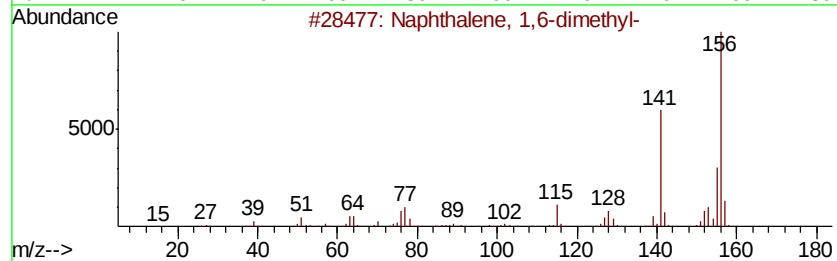
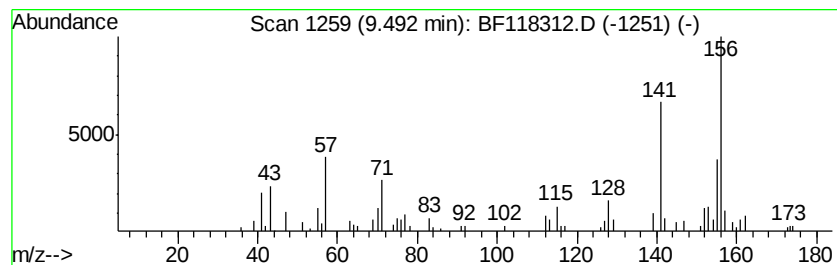
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Naphthalene, 1,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.49	4.39 ng	265300	Acenaphthene-d10	9.90
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 97
2		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 96
3		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 96
4		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 96
5		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 96



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Operator : JU
Sample : K6414-08
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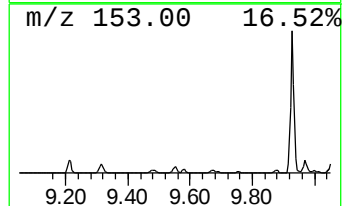
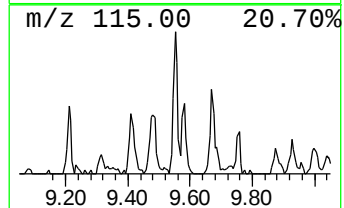
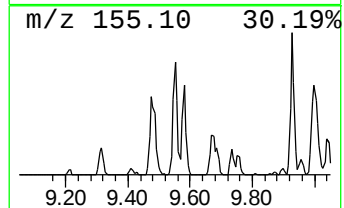
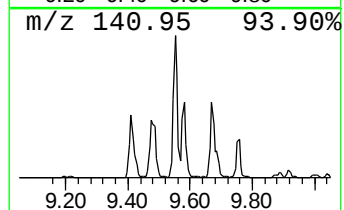
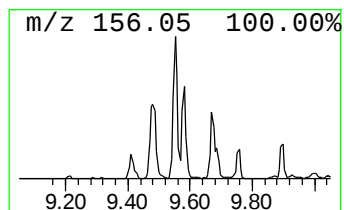
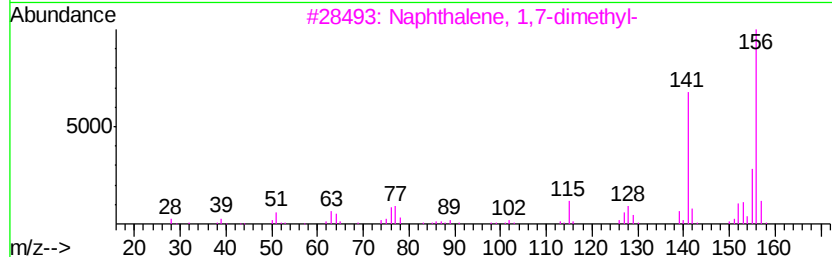
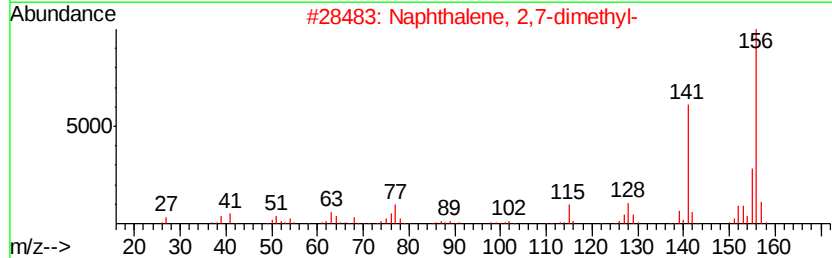
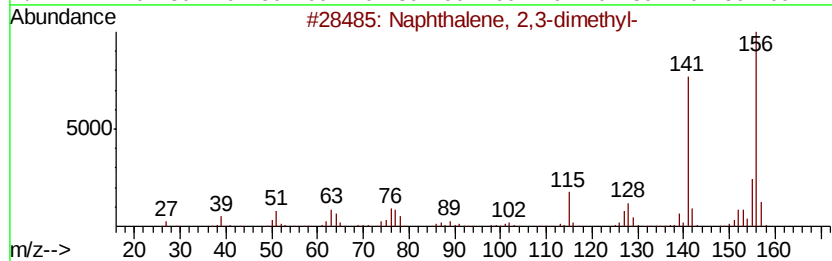
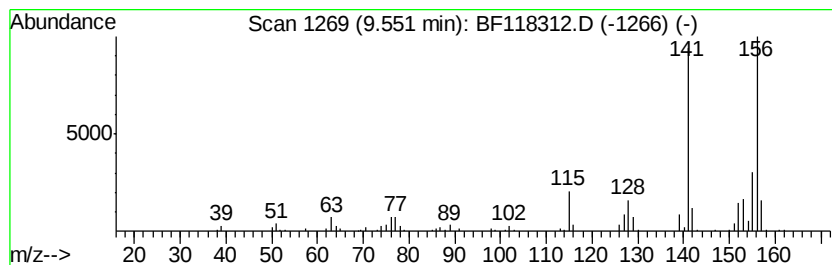
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.55	4.96 ng	299786	Acenaphthene-d10	9.90
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 97
2		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 97
3		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 96
4		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 96
5		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 96



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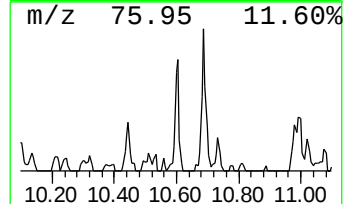
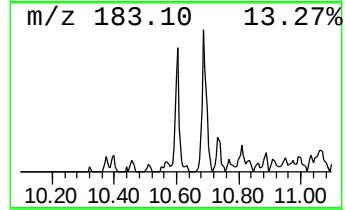
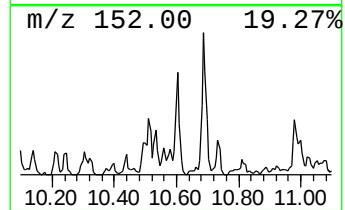
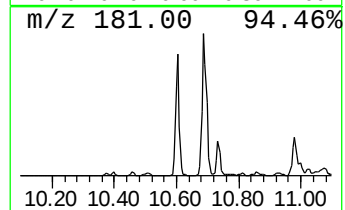
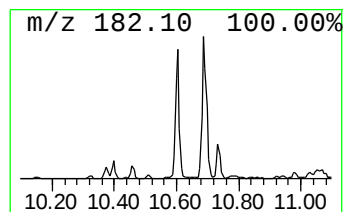
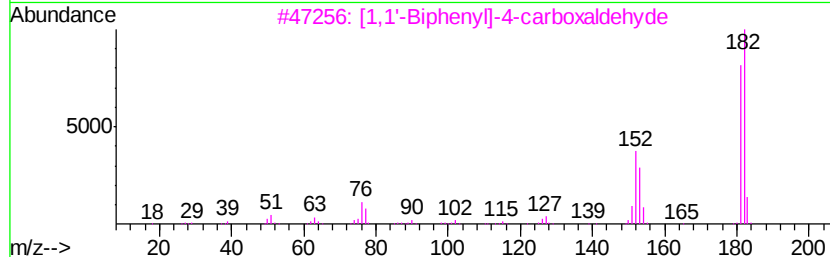
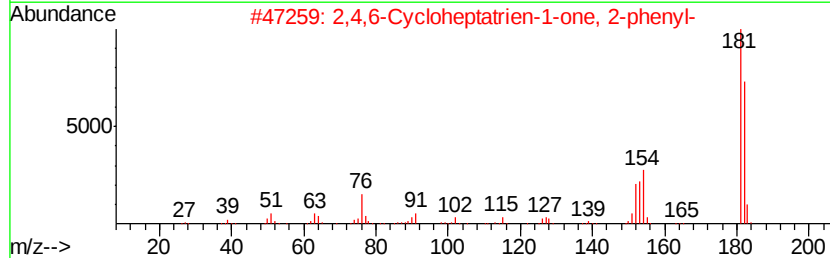
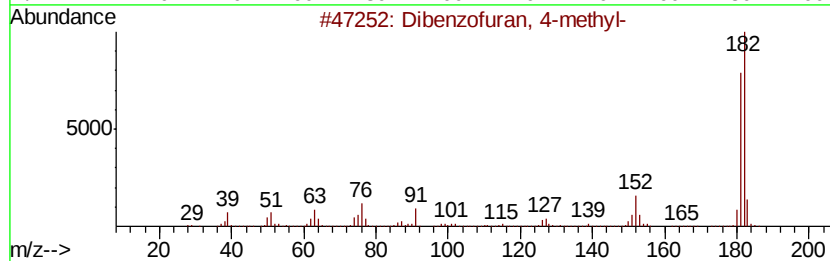
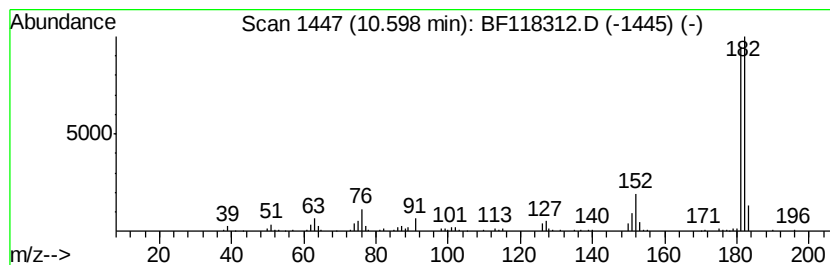
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Dibenzofuran, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.60	4.13 ng	249802	Acenaphthene-d10	9.90
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Dibenzofuran, 4-methyl-	182 C13H10O	007320-53-8 90
2		2,4,6-Cycloheptatrien-1-one, 2-p...	182 C13H10O	014562-09-5 86
3		[1,1'-Biphenyl]-4-carboxaldehyd	182 C13H10O	003218-36-8 80
4		9H-Fluoren-9-ol	182 C13H10O	001689-64-1 78
5		Norharmene, N-methyl-	182 C12H10N2	1000374-78-6 72



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
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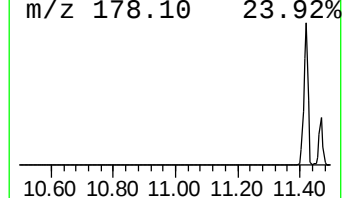
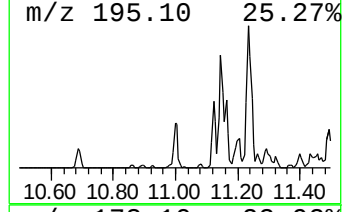
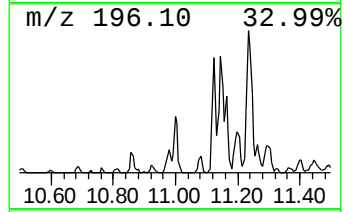
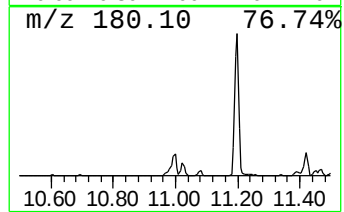
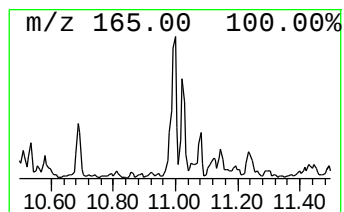
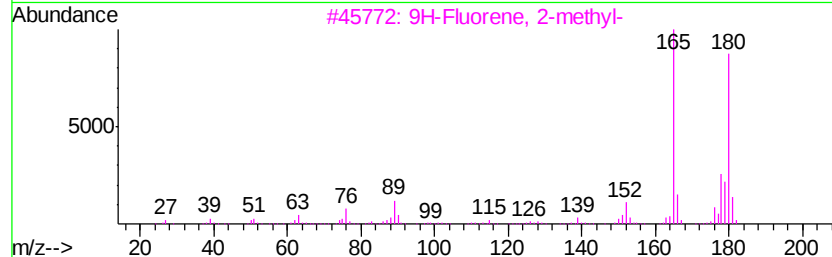
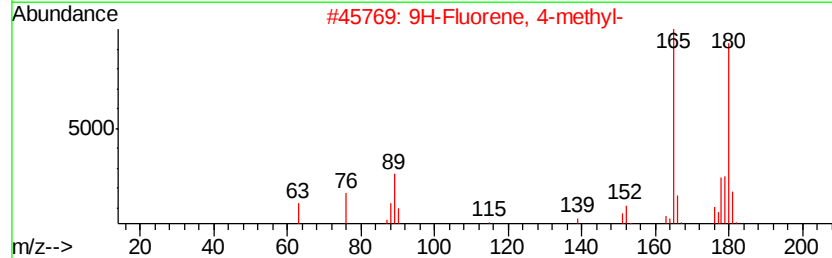
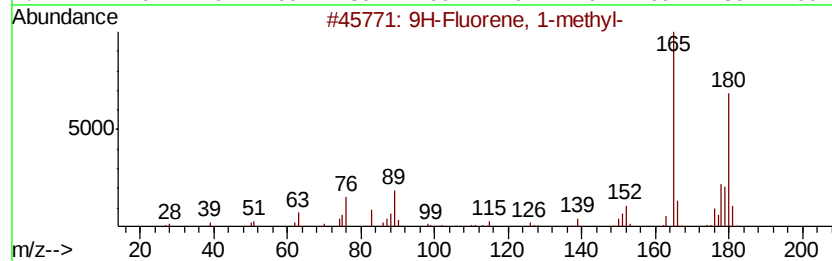
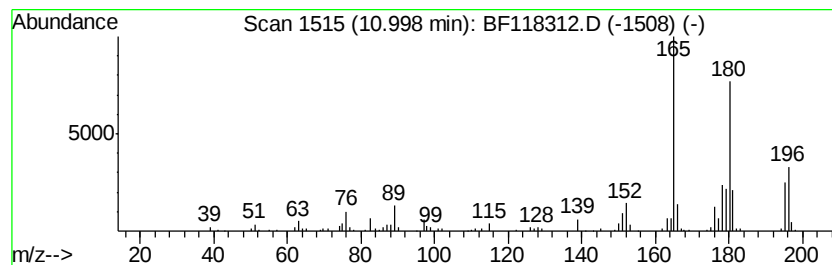
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD		R.T.		
11.00	4.91 ng	291247	Phenanthrene-d10		11.39		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2			9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	86
3			9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	86
4			9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86
5			4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
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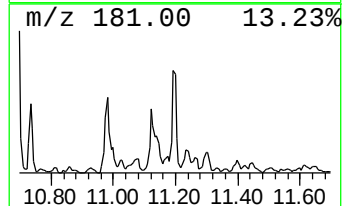
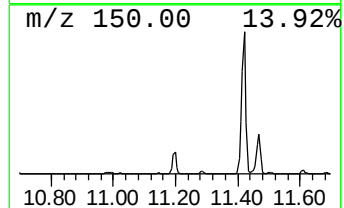
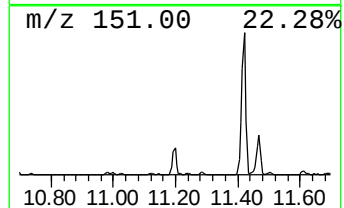
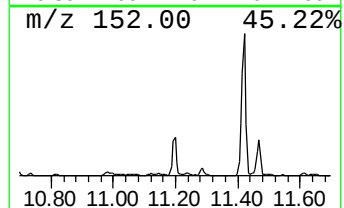
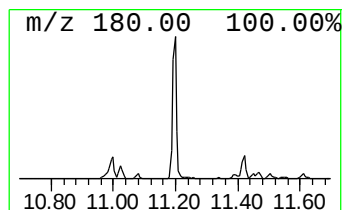
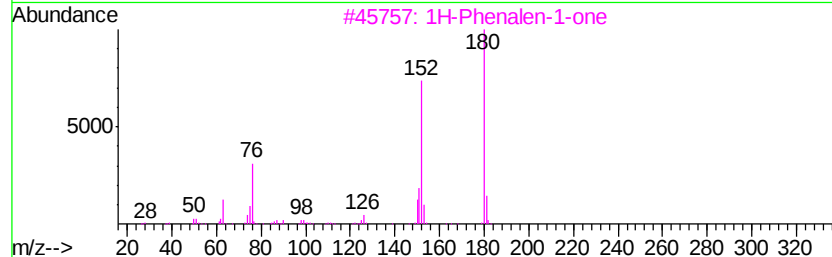
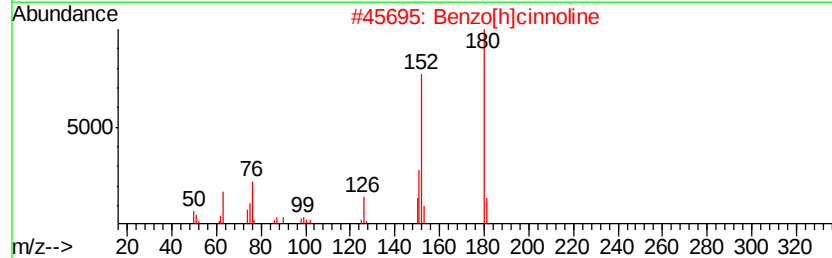
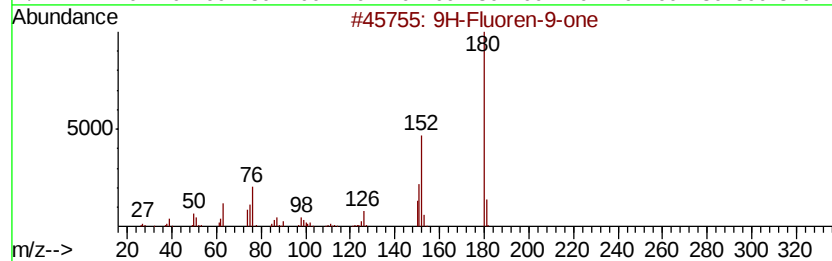
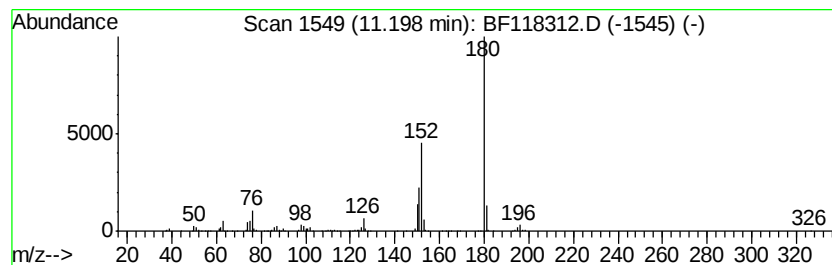
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 9H-Fluoren-9-one Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	8.97 ng	532184	Phenanthrene-d10	11.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	78
4		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	50
5		Phenazine	180	C12H8N2	000092-82-0	43



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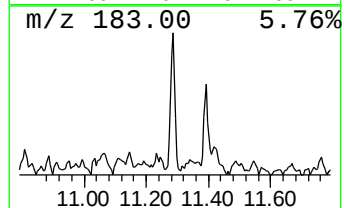
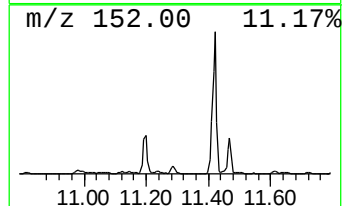
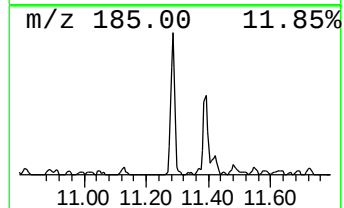
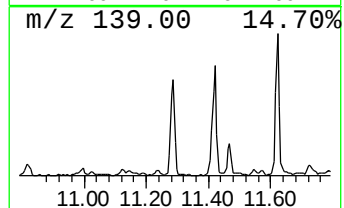
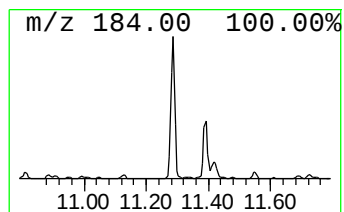
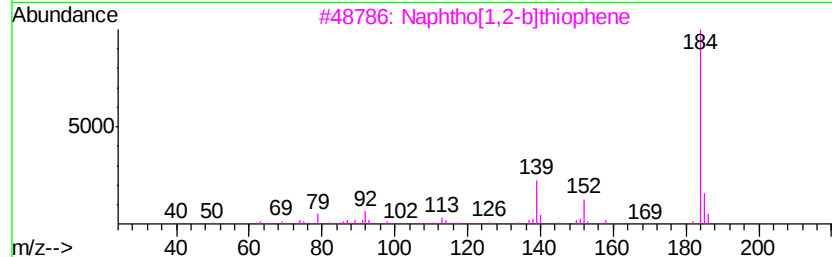
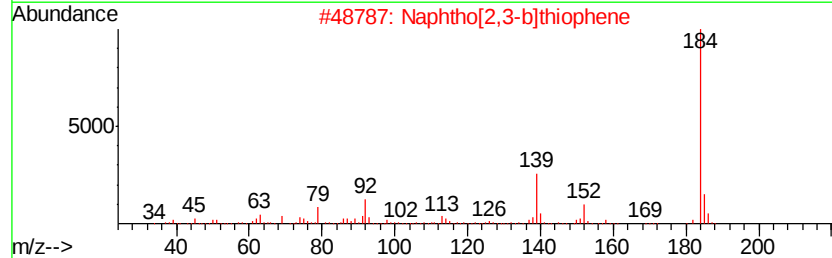
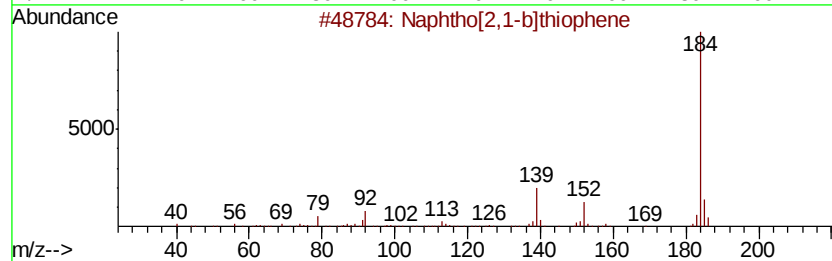
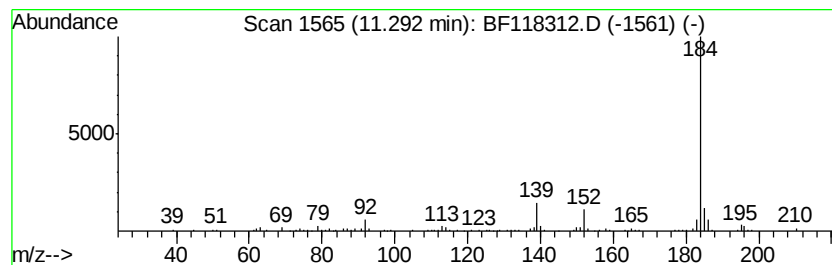
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Naphtho[2,1-b]thiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	6.71 ng	398269	Phenanthrene-d10	11.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4		Dibenzothiophene	184	C12H8S	000132-65-0	95
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
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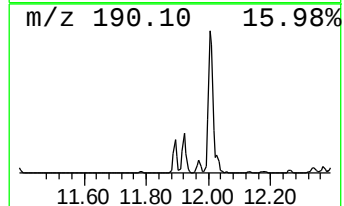
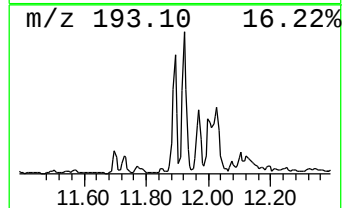
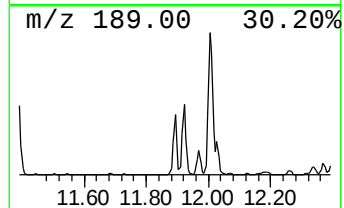
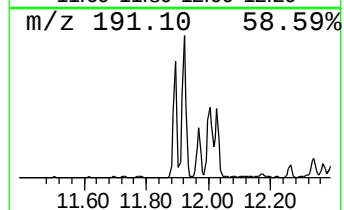
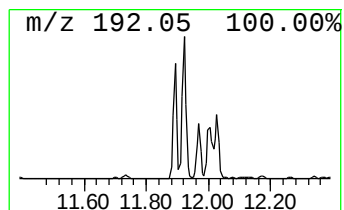
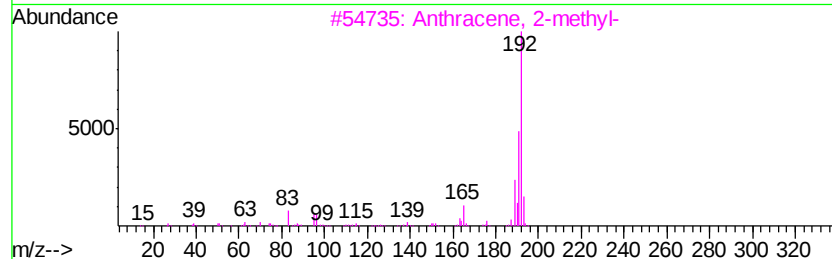
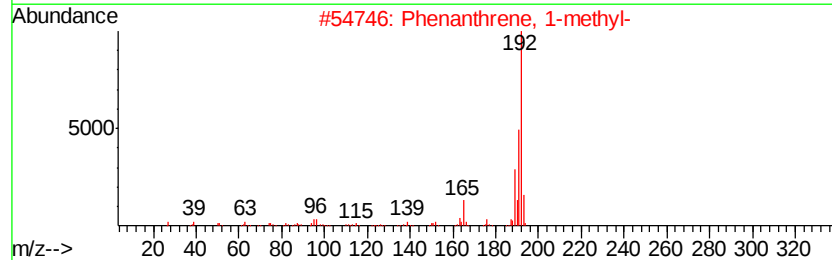
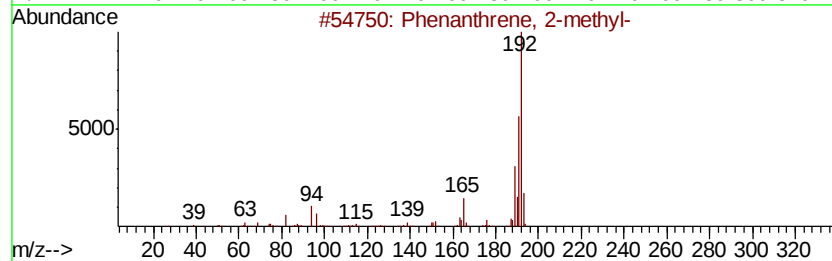
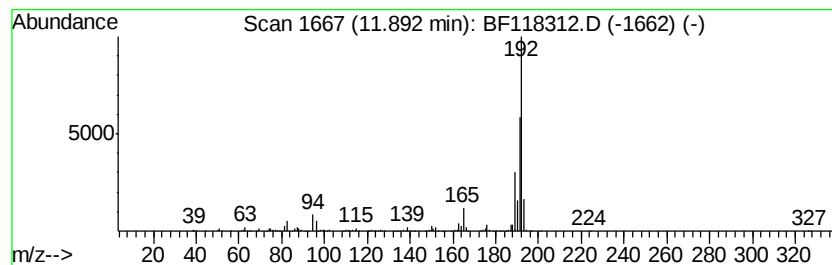
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	10.82 ng	642462	Phenanthrene-d10	11.39

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	93
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5		Anthracene, 1-methyl-	192	C15H12	000610-48-0	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
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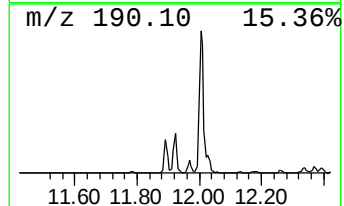
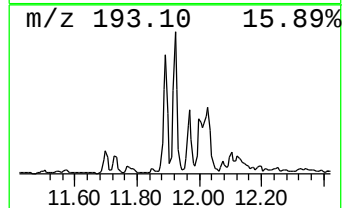
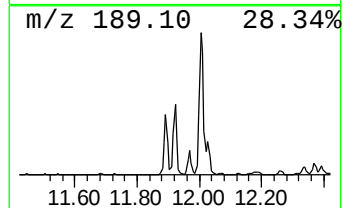
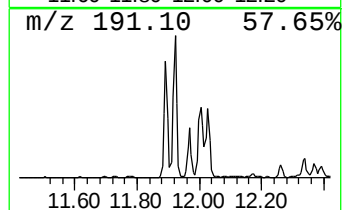
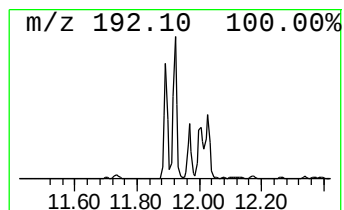
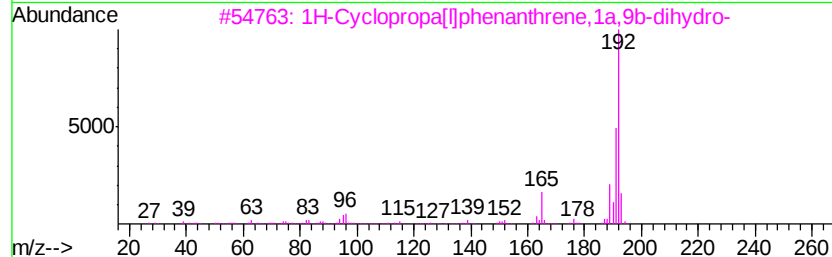
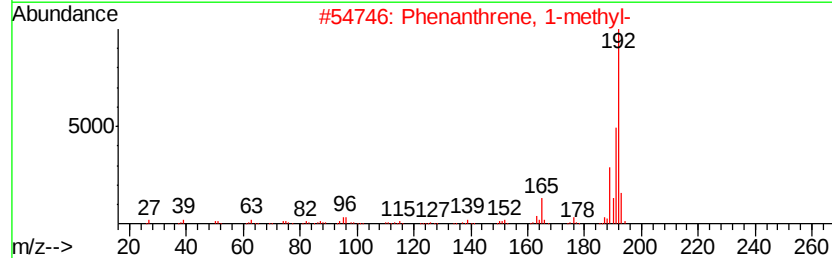
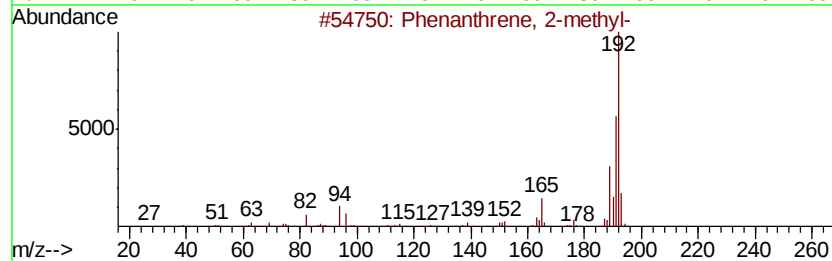
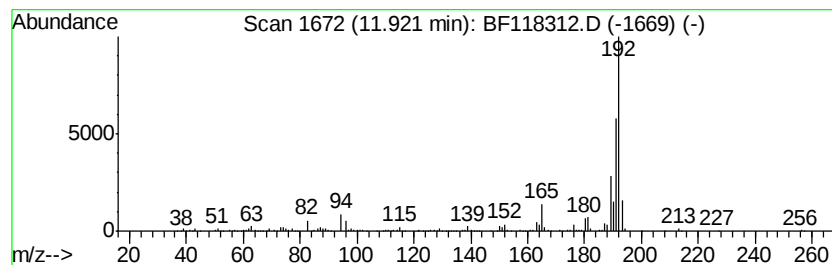
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	18.54 ng	1100350	Phenanthrene-d10	11.39

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	97
3		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
Data File : BF118312.D
Acq On : 26 Dec 2019 13:13
Operator : JU
Sample : K6414-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
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ClientSampleId :
K183-WC-02

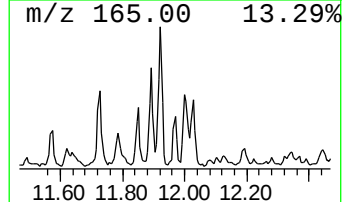
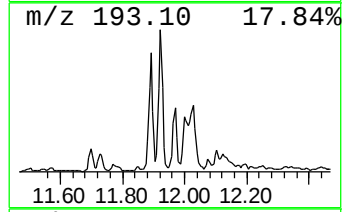
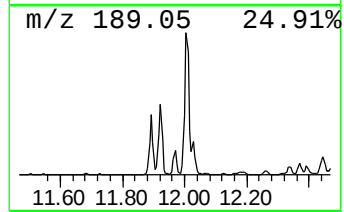
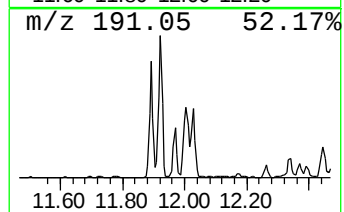
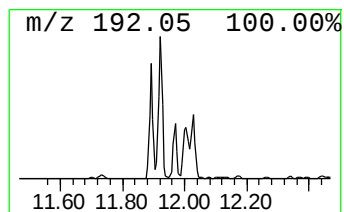
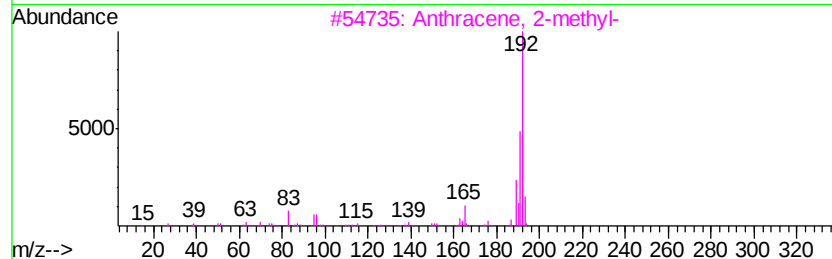
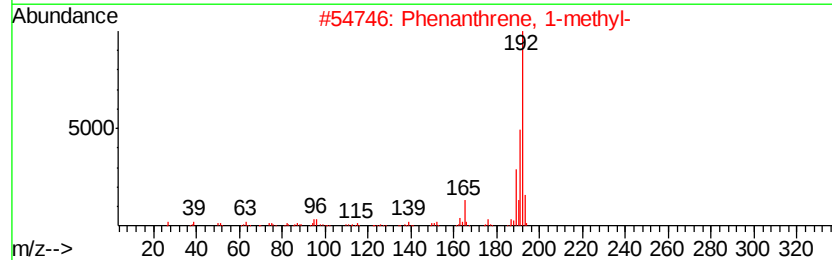
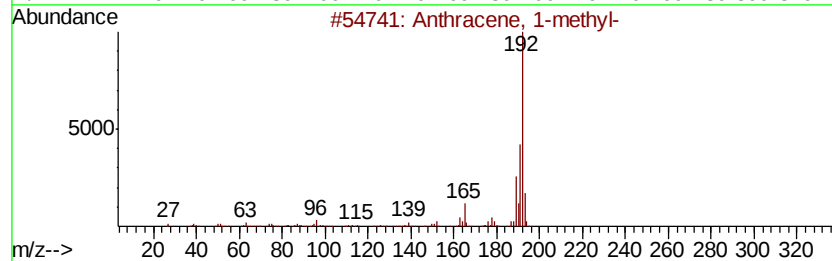
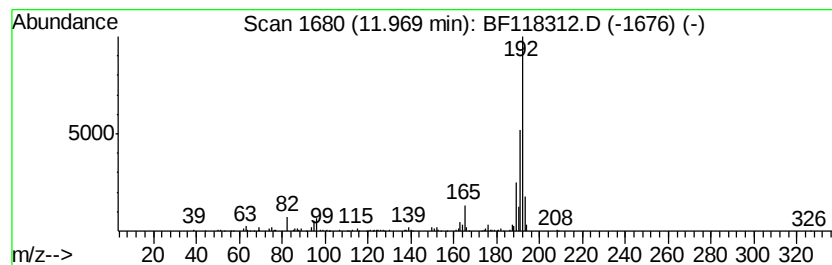
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Anthracene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	5.03 ng	298870	Phenanthrene-d10	11.39

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
Data File : BF118312.D
Acq On : 26 Dec 2019 13:13
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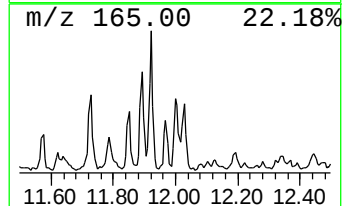
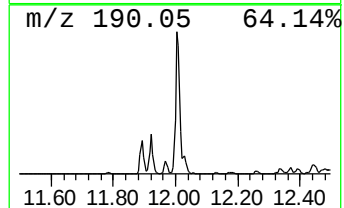
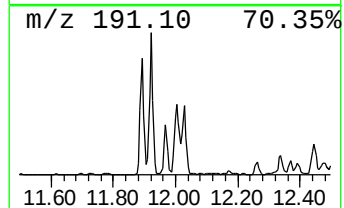
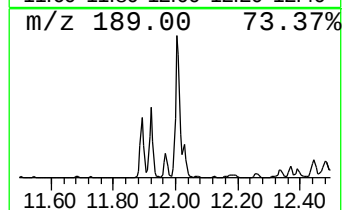
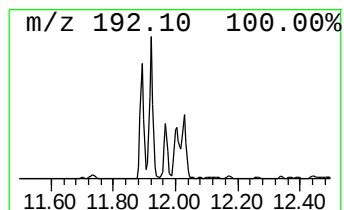
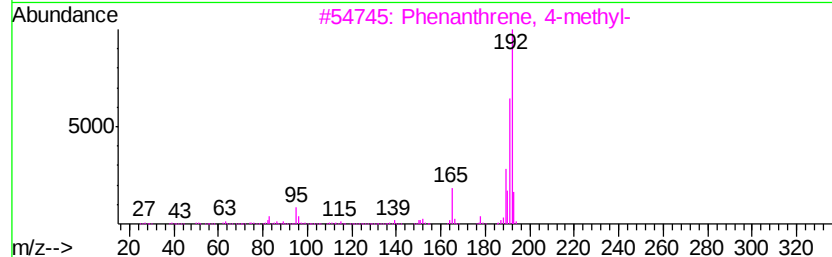
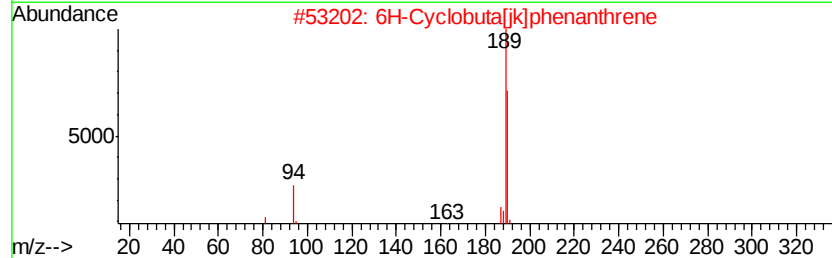
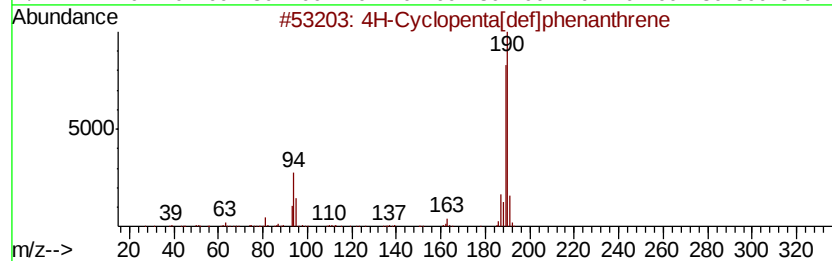
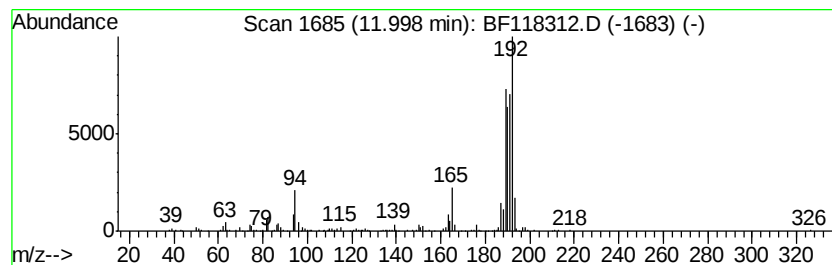
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	15.39 ng	913855	Phenanthrene-d10	11.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2		6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	58
3		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
4		3,5-Dichlorobenzoic acid	190	C7H4Cl2O2	000051-36-5	27
5		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
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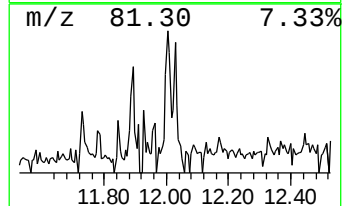
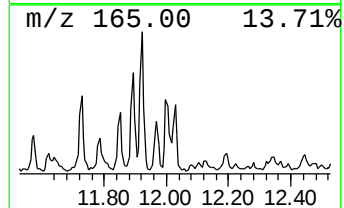
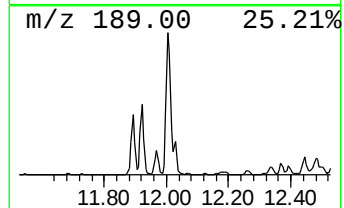
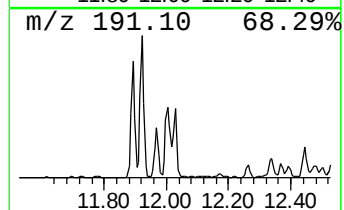
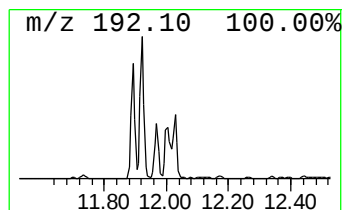
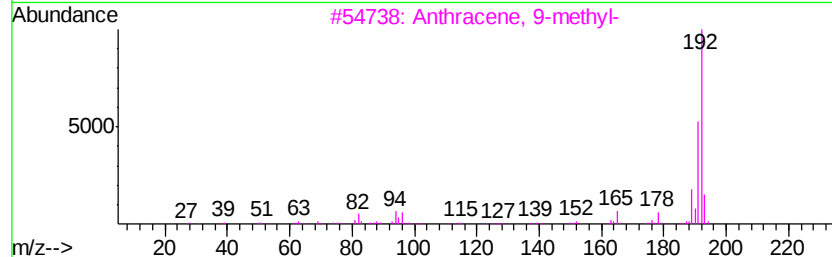
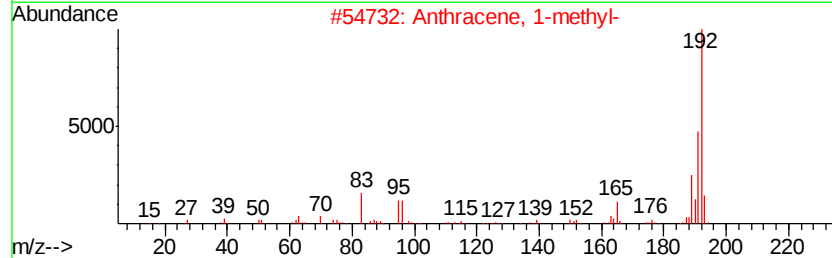
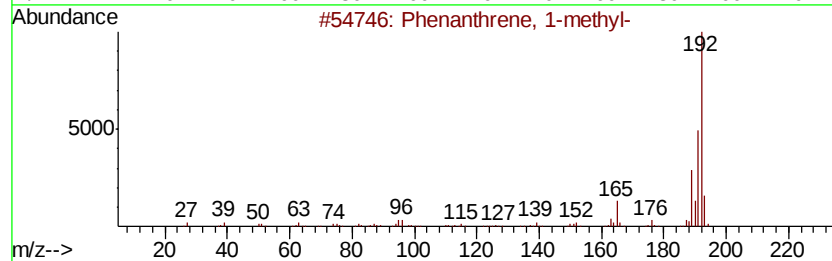
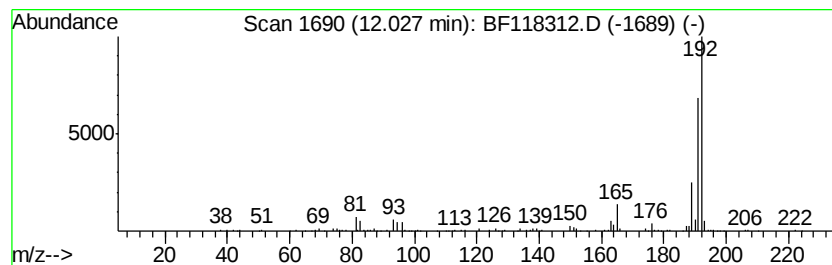
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Anthracene, 9-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	4.21 ng	249737	Phenanthrene-d10	11.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	74
2		Anthracene, 1-methyl-	192	C15H12	000610-48-0	74
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	74
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	72
5		Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
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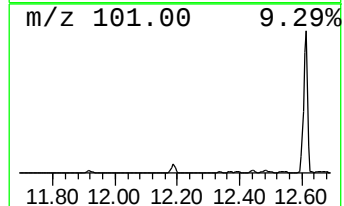
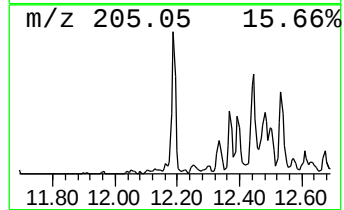
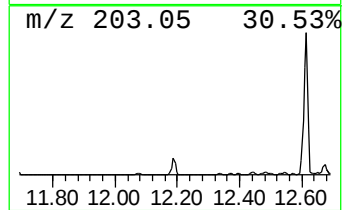
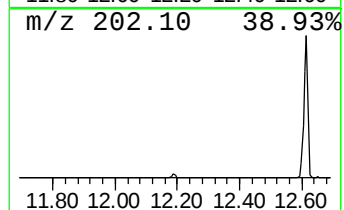
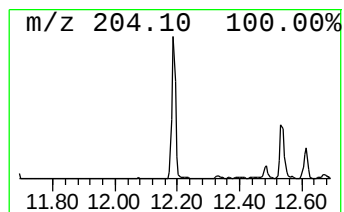
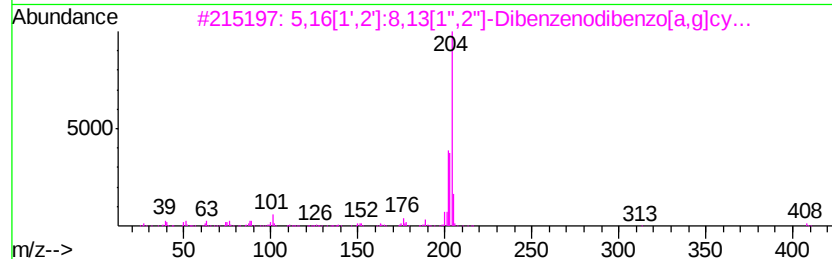
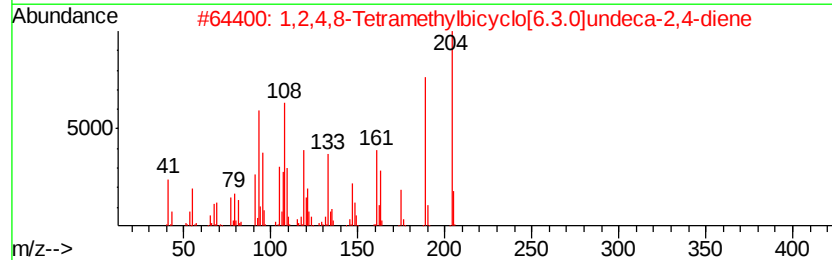
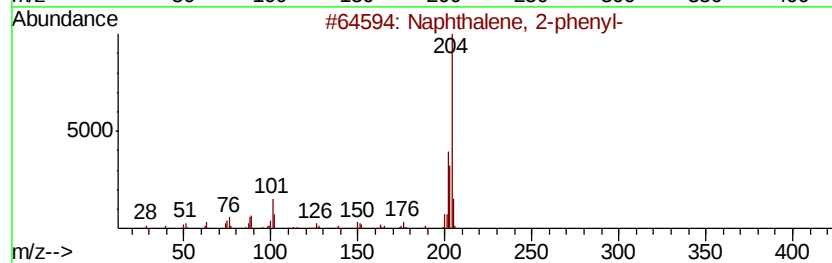
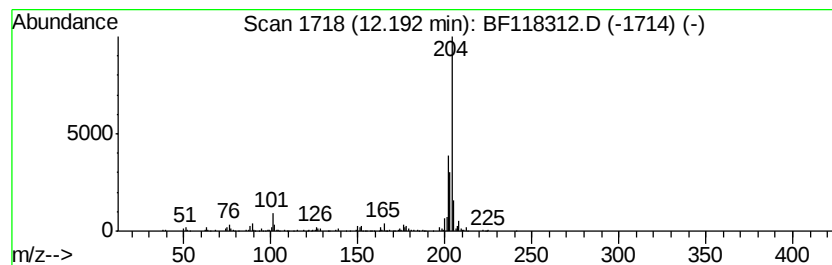
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	5.81 ng	344785	Phenanthrene-d10	11.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2		1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
3		5,16[1',2']8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
Data File : BF118312.D
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ClientSampleId :
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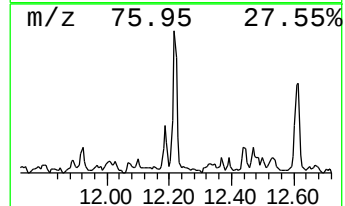
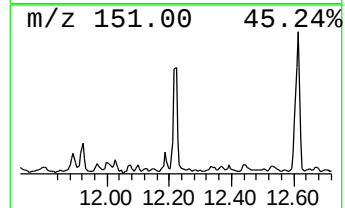
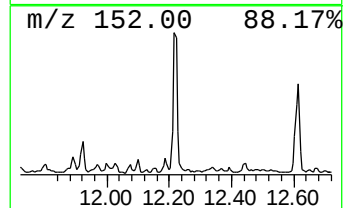
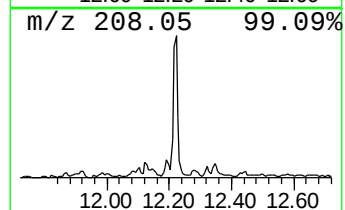
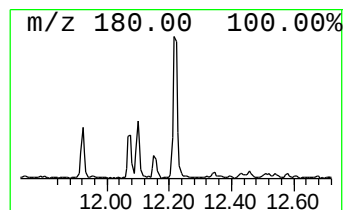
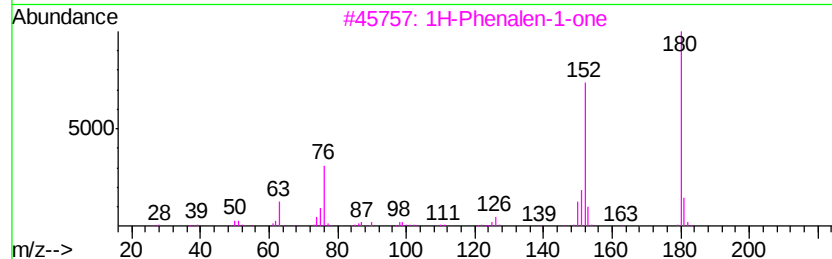
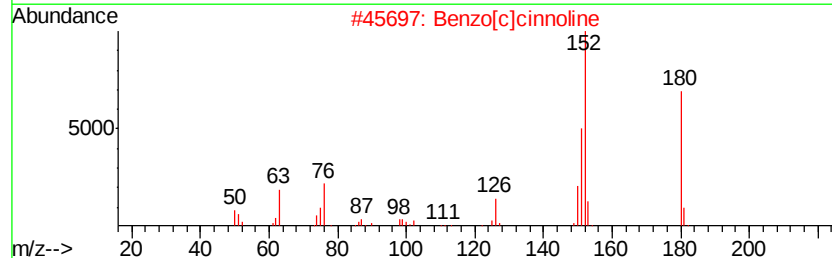
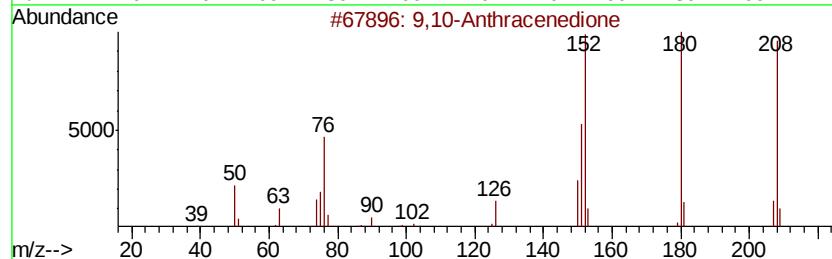
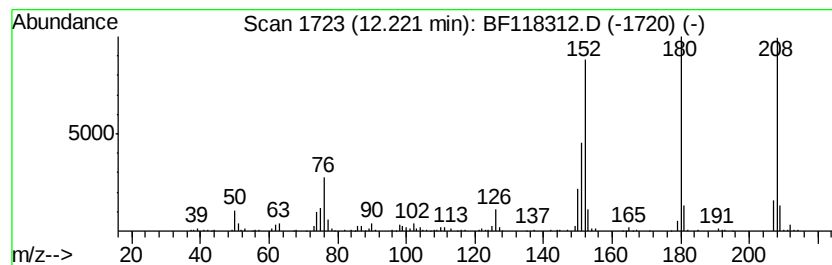
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	4.72 ng	280153	Phenanthrene-d10	11.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5		1,4-Anthracenedione	208	C14H8O2	000635-12-1	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
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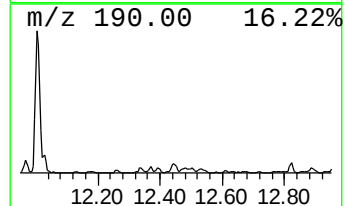
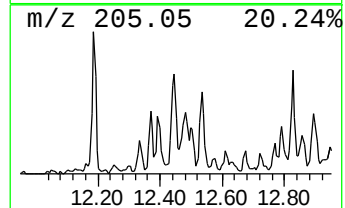
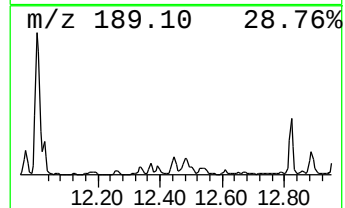
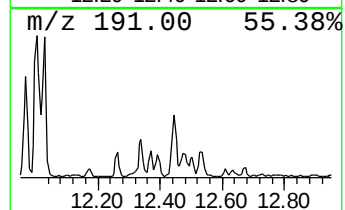
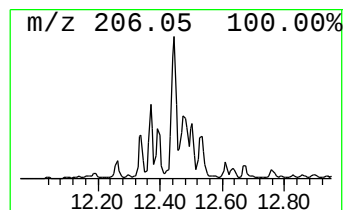
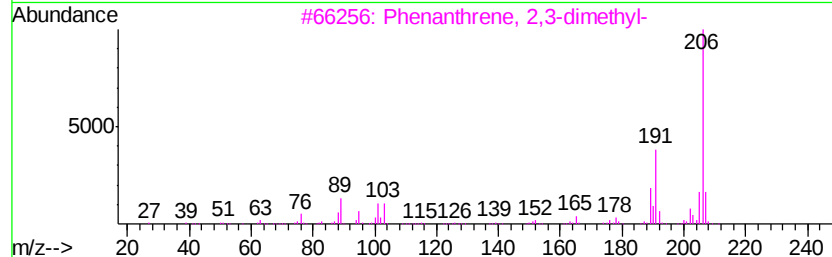
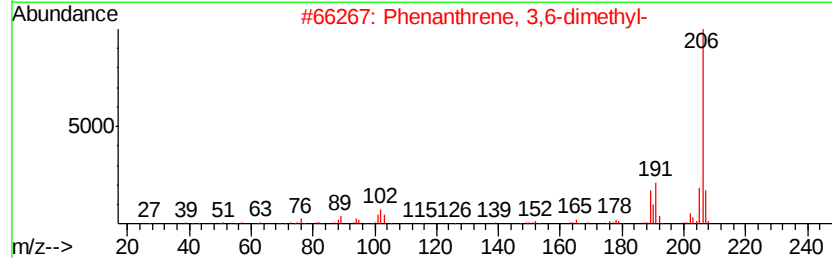
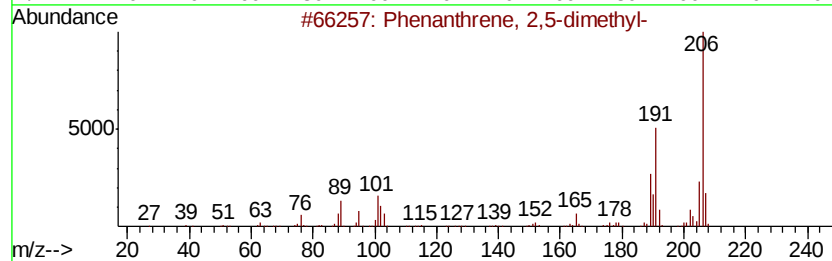
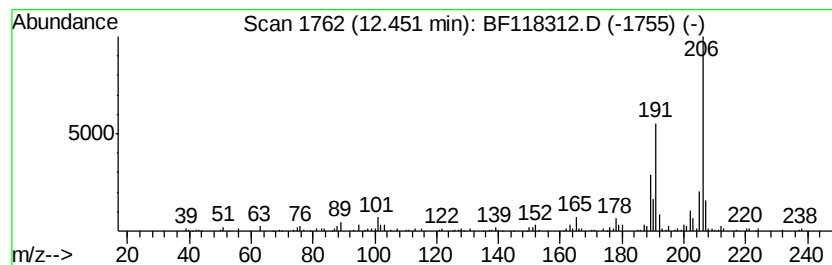
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.45	5.19 ng	308063	Phenanthrene-d10		11.39
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	9,10-Dimethylantracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
Data File : BF118312.D
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Operator : JU
Sample : K6414-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
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ClientSampleId :
K183-WC-02

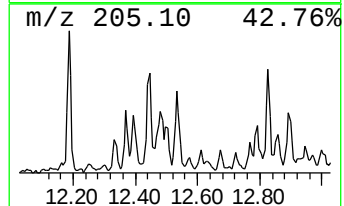
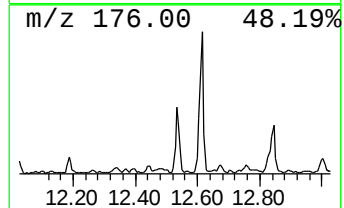
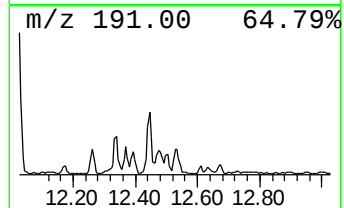
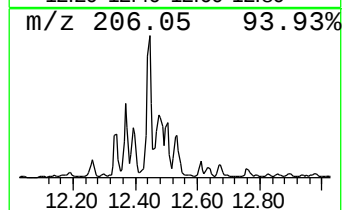
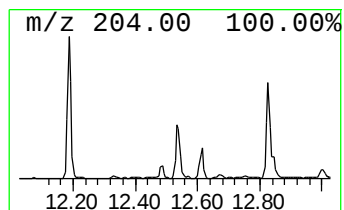
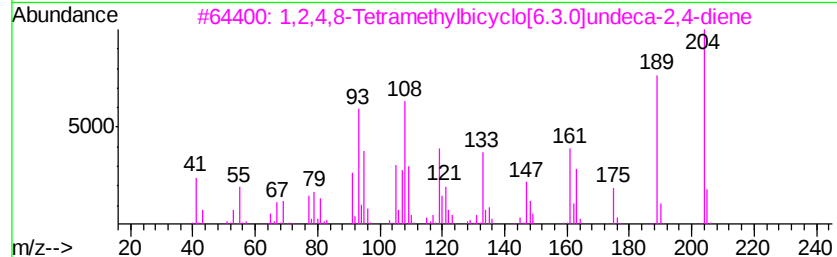
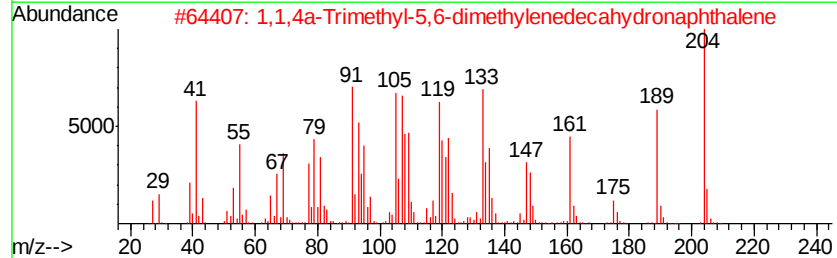
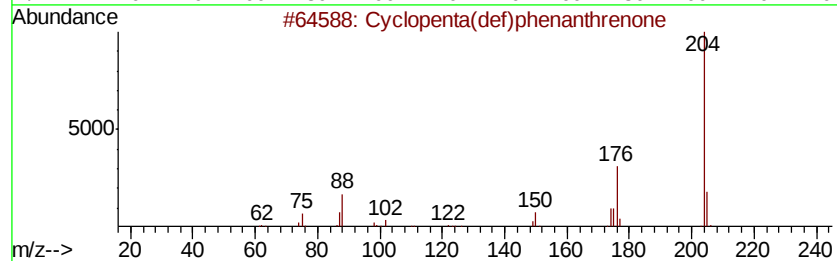
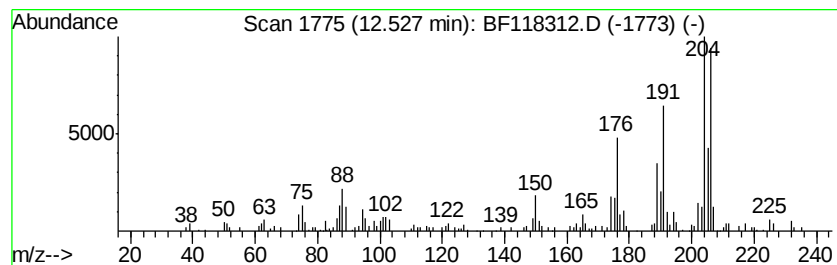
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	4.89 ng	290429	Phenanthrene-d10	11.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	86
2		1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	42
3		1,2,4,8-Tetramethylbicyclo[6.3.0]...	204	C15H24	137235-51-9	41
4		L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	38
5		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
Data File : BF118312.D
Acq On : 26 Dec 2019 13:13
Operator : JU
Sample : K6414-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

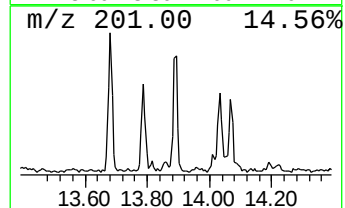
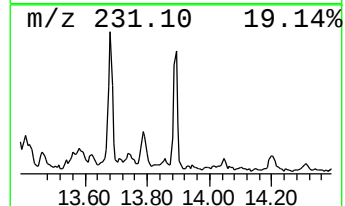
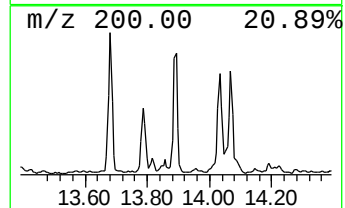
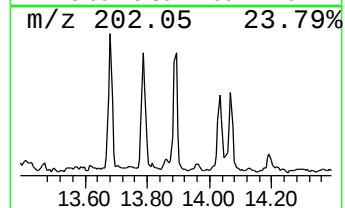
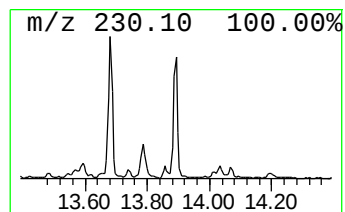
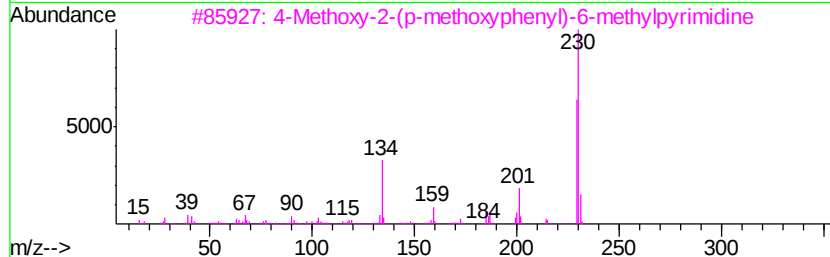
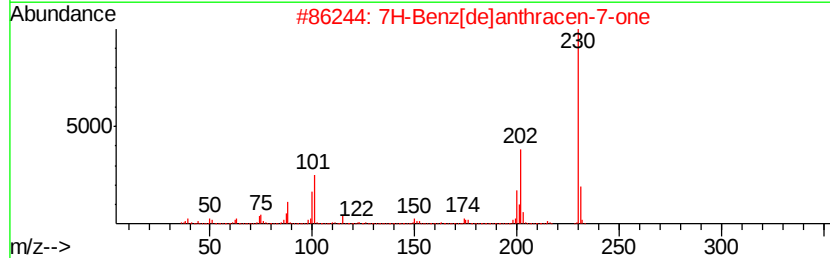
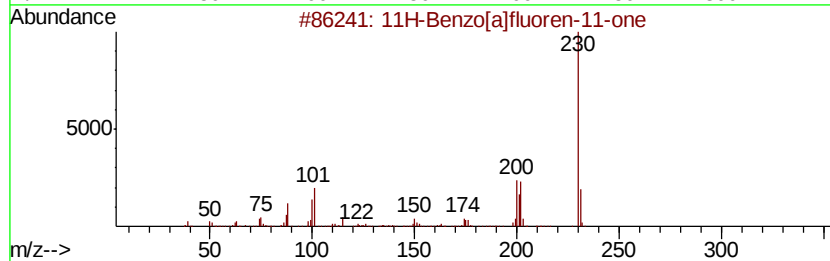
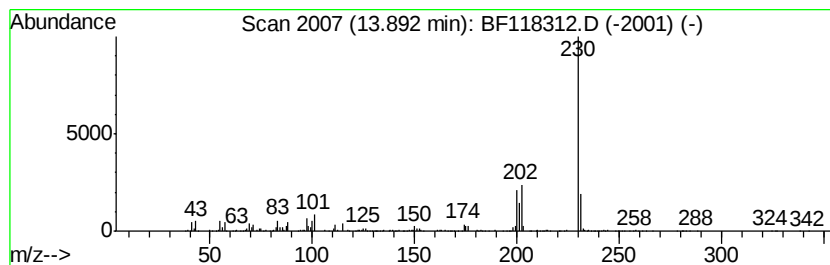
Instrument :
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ClientSampleId :
K183-WC-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 11H-Benzo[a]fluoren-11-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.89	6.36 ng	938413	Chrysene-d12	14.04		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	87
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
3		4-Methoxy-2-(p-methoxyphenyl)-6-...	230	C13H14N2O2	063896-93-5	53
4		o-Terphenyl	230	C18H14	000084-15-1	53
5		Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\
Data File : BF118312.D
Acq On : 26 Dec 2019 13:13
Operator : JU
Sample : K6414-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
K183-WC-02

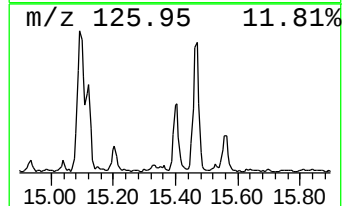
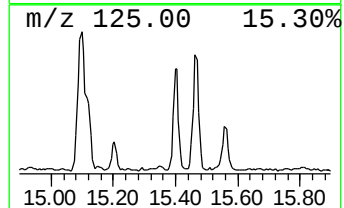
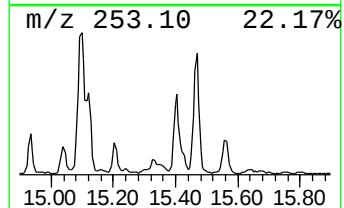
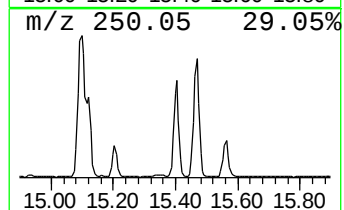
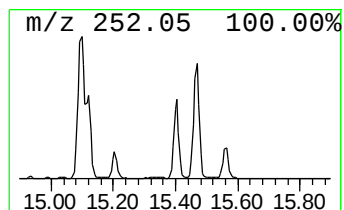
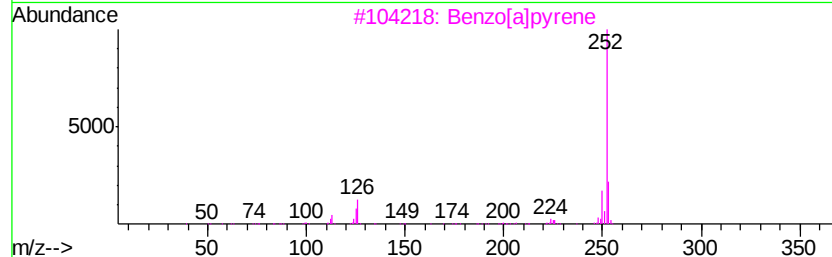
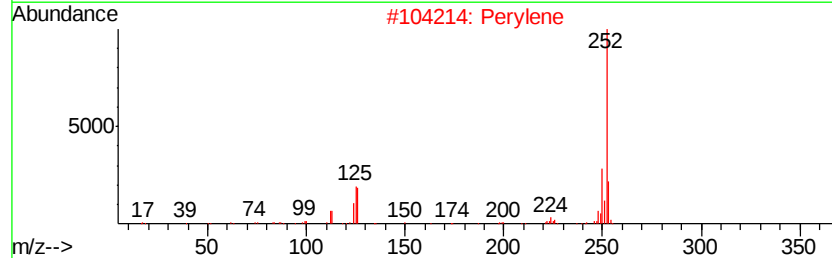
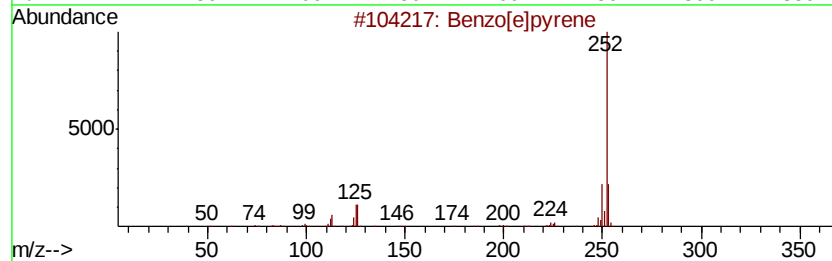
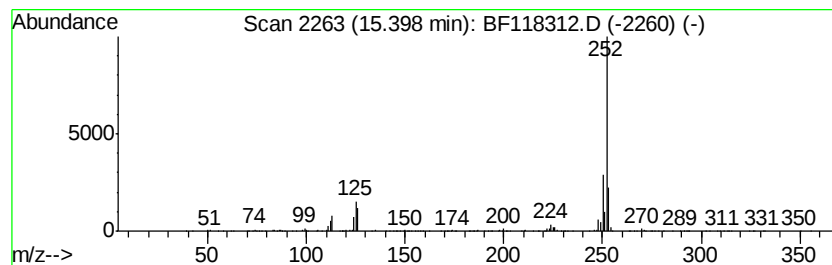
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.40	12.60 ng	712758	Perylene-d12	15.53

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Perylene	252	C20H12	000198-55-0	96
3		Benzo[a]pyrene	252	C20H12	000050-32-8	96
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	94
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF122619\
 Data File : BF118312.D
 Acq On : 26 Dec 2019 13:13
 Operator : JU
 Sample : K6414-08
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K183-WC-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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
2-Pentanone, 4-hy...	5.05	12.3	ng	411029	1	6.85	671149	20.0
unknown6.62	6.62	76.9	ng	2579520	1	6.85	671149	20.0
Naphthalene, 1,6-...	9.49	4.4	ng	265300	3	9.90	1208540	20.0
Naphthalene, 2,3-...	9.55	5.0	ng	299786	3	9.90	1208540	20.0
Dibenzofuran, 4-m...	10.60	4.1	ng	249802	3	9.90	1208540	20.0
9H-Fluorene, 1-me...	11.00	4.9	ng	291247	4	11.39	1187220	20.0
9H-Fluoren-9-one	11.20	9.0	ng	532184	4	11.39	1187220	20.0
Naphtho[2,1-b]thi...	11.29	6.7	ng	398269	4	11.39	1187220	20.0
Phenanthrene, 2-m...	11.89	10.8	ng	642462	4	11.39	1187220	20.0
Phenanthrene, 1-m...	11.92	18.5	ng	1100350	4	11.39	1187220	20.0
Anthracene, 1-met...	11.97	5.0	ng	298870	4	11.39	1187220	20.0
4H-Cyclopenta[def...	12.00	15.4	ng	913855	4	11.39	1187220	20.0
Anthracene, 9-met...	12.03	4.2	ng	249737	4	11.39	1187220	20.0
Naphthalene, 2-ph...	12.19	5.8	ng	344785	4	11.39	1187220	20.0
9,10-Anthracenedione	12.22	4.7	ng	280153	4	11.39	1187220	20.0
Phenanthrene, 2,5...	12.45	5.2	ng	308063	4	11.39	1187220	20.0
Cyclopenta(def)ph...	12.53	4.9	ng	290429	4	11.39	1187220	20.0
11H-Benzo[a]fluor...	13.89	6.4	ng	938413	5	14.04	2950150	20.0
Benzo[e]pyrene	15.40	12.6	ng	712758	6	15.53	1130980	20.0