LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BF073019.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	5.446	568	571	603	rBV	2366002	2714074	85.35%	5.390%
2	6.463	740	744	762	rBV	2478380	3001210	94.38%	5.960%
3	6.592	762	766	785	rVB	3132916	2899257	91.17%	5.758%
4	6.816	801	804	815	rBV	957773	835562	26.28%	1.659%
5	6.975	827	831	849	rBV	2332829	2279508	71.68%	4.527%
6	7.381	896	900	920	rBV	1878327	1886630	59.33%	3.747%
7	8.098	1018	1022	1050	rBV	1079447	1069216	33.62%	2.123%
8	9.169	1200	1204	1216	rBV	3571988	3180013	100.00%	6.315%
9	9.563	1269	1271	1279	rVB	229244	221165	6.95%	0.439%
10	9.845	1316	1319	1323	rBV	1262293	1163420	36.59%	2.311%
11	9.881	1323	1325	1334	rVB	290274	246514	7.75%	0.490%
12	10.063	1351	1356	1359	rBV	70083	82421	2.59%	0.164%
13	10.398	1409	1413	1419	rBV	190081	182408	5.74%	0.362%
14	10.557	1438	1440	1444	rVB2	58811	50685	1.59%	0.101%
15	10.639	1451	1454	1461	rBV	1779208	1786836	56.19%	3.549%
16	10.945	1500	1506	1509	rBV3	65008	89291	2.81%	0.177%
17	10.975	1509	1511	1514	rVV2	61710	58838	1.85%	0.117%
18	11.075	1522	1528	1530	rBV2	57173	93122	2.93%	0.185%
19	11.092	1530	1531	1537	rVV2	47289	50281	1.58%	0.100%
20	11.157	1537	1542	1544	rVV4	35851	52237	1.64%	0.104%
21	11.192	1544	1548	1551	rVV4	90835	109754	3.45%	0.218%
22	11.233	1552	1555	1560	rVB	127668	129118	4.06%	0.256%
23	11.333	1569	1572	1574	rBV	1202057	1074559	33.79%	2.134%
24	11.357	1574	1576	1581	rVV	2120665	1886863	59.34%	3.747%
25	11.410	1581	1585	1590	rVV	608110	646047	20.32%	1.283%
26	11.457	1590	1593	1597	rVV2	56436	95835	3.01%	0.190%
27	11.575	1609	1613	1618	rBV2	185621	242478	7.63%	0.482%
28	11.622	1618	1621	1624	rVV3	62469	76388	2.40%	0.152%
29	11.669	1624	1629	1630	rVV4	40376	63352	1.99%	0.126%
30	11.833	1654	1657	1660	rBV	245069	246934	7.77%	0.490%
31	11.863	1660	1662	1668	rVV	353811	391723	12.32%	0.778%
32	11.916	1668	1671	1673	rVV	143520	132788	4.18%	0.264%
33	11.951	1673	1677	1679	rVV	442396	494629	15.55%	0.982%
34	11.969	1679	1680	1686	rVB	170926	156791	4.93%	0.311%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.022	1686	1689	1692	rBV2	57124	52344	1.65%	0.104%
36	12.127	1704	1707	1712	rBV	192683	178544	5.61%	0.355%
37	12.174	1712	1715	1718	rVB2	94122	80859	2.54%	0.161%
38	12.280	1728	1733	1736	rBV	80249	87653	2.76%	0.174%
39	12.386	1747	1751	1753	rBV	201202	180519	5.68%	0.359%
40	12.410	1753	1755	1756	rVV2	67338	59888	1.88%	0.119%
41	12.486	1763	1768	1770	rBV2	81266	121736	3.83%	0.242%
42	12.551	1775	1779	1783	rBV	2735670	2402684	75.56%	4.772%
43	12.616	1788	1790	1793	rVB2	59366	58317	1.83%	0.116%
44	12.704	1801	1805	1807	rBV2	118043	116369	3.66%	0.231%
45	12.780	1811	1818	1824	rBV2	2197134	2487201	78.21%	4.940%
46	12.827	1824	1826	1831	rVB2	124808	131558	4.14%	0.261%
47	12.916	1834	1841	1844	rBV	2638642	2612559	82.16%	5.188%
48	12.951	1844	1847	1851	rVB	101877	121047	3.81%	0.240%
49	12.992	1851	1854	1855	rBV	124033	142005	4.47%	0.282%
50	13.080	1866	1869	1871	rBV3	92873	118165	3.72%	0.235%
51	13.110	1871	1874	1877	rVB	304879	294346	9.26%	0.585%
52	13.174	1882	1885	1887	rVV	273941	225465	7.09%	0.448%
53	13.210	1887	1891	1898	rVB3	183239	290087	9.12%	0.576%
54	13.269	1898	1901	1904	rVB3	51944	53189	1.67%	0.106%
55	13.304	1904	1907	1910	rBV	111348	104160	3.28%	0.207%
56	13.333	1910	1912	1916	rBV3	98825	106489	3.35%	0.211%
57	13.527	1943	1945	1948	rVV	60716	60728	1.91%	0.121%
58	13.592	1952	1956	1959	rBV3	48816	66868	2.10%	0.133%
59	13.627	1959	1962	1965	rVB	91209	87428	2.75%	0.174%
60	13.727	1974	1979	1981	rBV2	171419	208231	6.55%	0.414%
61	13.751	1981	1983	1986	rVV	205327	204548	6.43%	0.406%
62	13.780	1986	1988	1989	rVV	177915	148772	4.68%	0.295%
63	13.798	1989	1991	1995	rVV3	276139	404420	12.72%	0.803%
64	13.833	1995	1997	2003	rVV	190524	227230	7.15%	0.451%
65	13.898	2003	2008	2012	rVV	60735	109314	3.44%	0.217%
66	13.968	2013	2020	2024	rVV2	1401700	2248110	70.69%	4.465%
67	14.004	2024	2026	2033	rVV	1061961	943486	29.67%	1.874%
68	14.080	2037	2039	2043	rVB	256335	240143	7.55%	0.477%
69	14.139	2047	2049	2053	rVV3	53708	83370	2.62%	0.166%
70	14.180	2053	2056	2057	rVV	75645	76400	2.40%	0.152%
71	14.210	2057	2061	2064	rVB2	103451	139279	4.38%	0.277%

LSC Area Percent Report

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Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.327	2078	2081	2083	rBV	58683	50168	1.58%	0.100%
73	14.363	2083	2087	2090	rVV	188339	210656	6.62%	0.418%
74	14.398	2091	2093	2095	rVV	70665	53625	1.69%	0.106%
75	14.463	2102	2104	2107	rVV	69853	60424	1.90%	0.120%
76	14.492	2107	2109	2110	rVV	77931	60147	1.89%	0.119%
77	14.510	2110	2112	2115	rVB2	121625	112733	3.55%	0.224%
78	14.692	2139	2143	2146	rBV2	97246	137717	4.33%	0.274%
79	14.792	2156	2160	2164	rVB2	63765	96261	3.03%	0.191%
80	14.863	2168	2172	2177	rBV2	98343	136846	4.30%	0.272%
81	14.963	2185	2189	2193	rBV	38953	54081	1.70%	0.107%
82	15.015	2193	2198	2201	rBV	884798	1293324	40.67%	2.569%
83	15.121	2213	2216	2221	rVB	194330	212378	6.68%	0.422%
84	15.210	2227	2231	2232	rBV2	53058	60416	1.90%	0.120%
85	15.251	2236	2238	2244	rVV2	64927	136851	4.30%	0.272%
86	15.315	2245	2249	2255	rVV	468671	616791	19.40%	1.225%
87	15.374	2255	2259	2264	rVV	749580	953374	29.98%	1.893%
88	15.433	2265	2269	2273	rVV	650288	864012	27.17%	1.716%
89	15.468	2273	2275	2285	rVB	214570	292782	9.21%	0.581%
90	15.615	2295	2300	2302	rBV	45086	67928	2.14%	0.135%
91	15.662	2302	2308	2314	rVB2	56530	114787	3.61%	0.228%
92	15.998	2361	2365	2371	rVB2	44657	69361	2.18%	0.138%
93	16.321	2417	2420	2431	rVB5	43510	99110	3.12%	0.197%
94	16.692	2480	2483	2488	rVV2	39524	61136	1.92%	0.121%
95	16.745	2488	2492	2497	rVB	39869	64072	2.01%	0.127%
96	16.898	2511	2518	2527	rBV	323115	657128	20.66%	1.305%
97	17.068	2541	2547	2552	rBV	79859	160984	5.06%	0.320%
98	17.127	2553	2557	2563	rVB2	51731	101086	3.18%	0.201%
99	17.339	2587	2593	2604	rBV	212886	463736	14.58%	0.921%
100	17.598	2632	2637	2647	rVB	56688	127879	4.02%	0.254%

Sum of corrected areas: 50353251

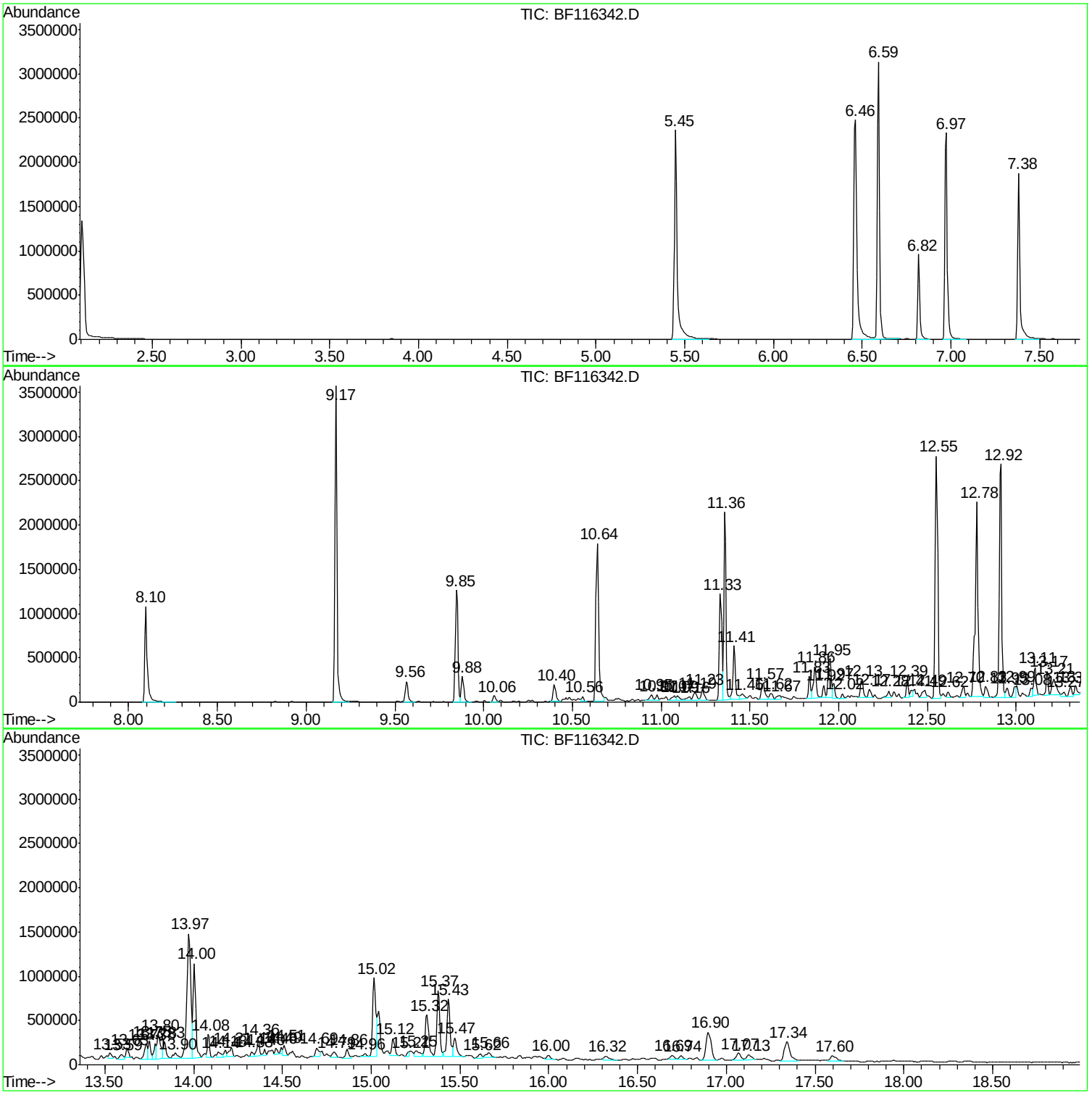
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

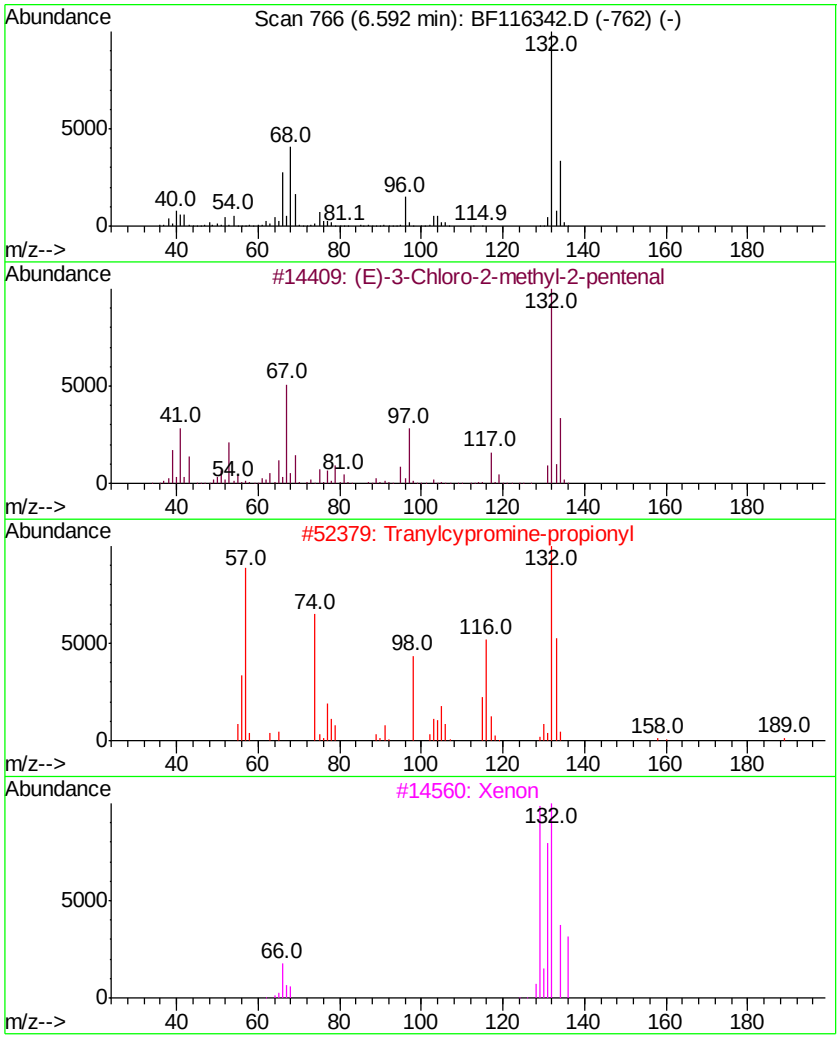
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

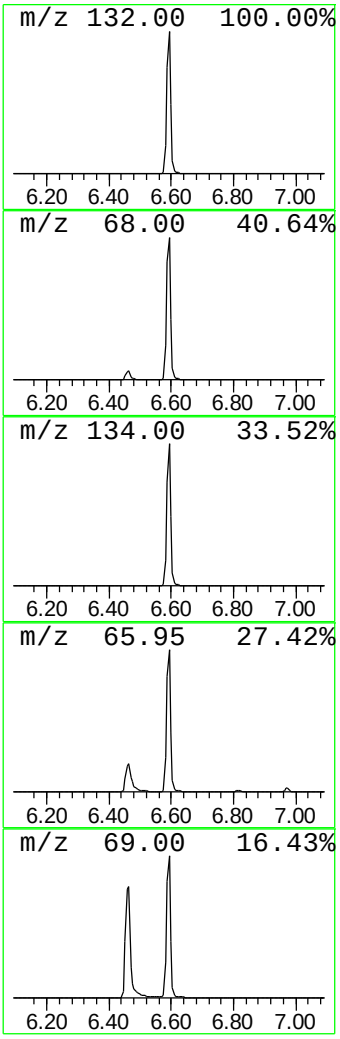
****

Peak Number 1 unknown6.59 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	69.40 ng	2899260	1,4-Dichlorobenzene-d4	6.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	Xenon	132	Xe	007440-63-3	9
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

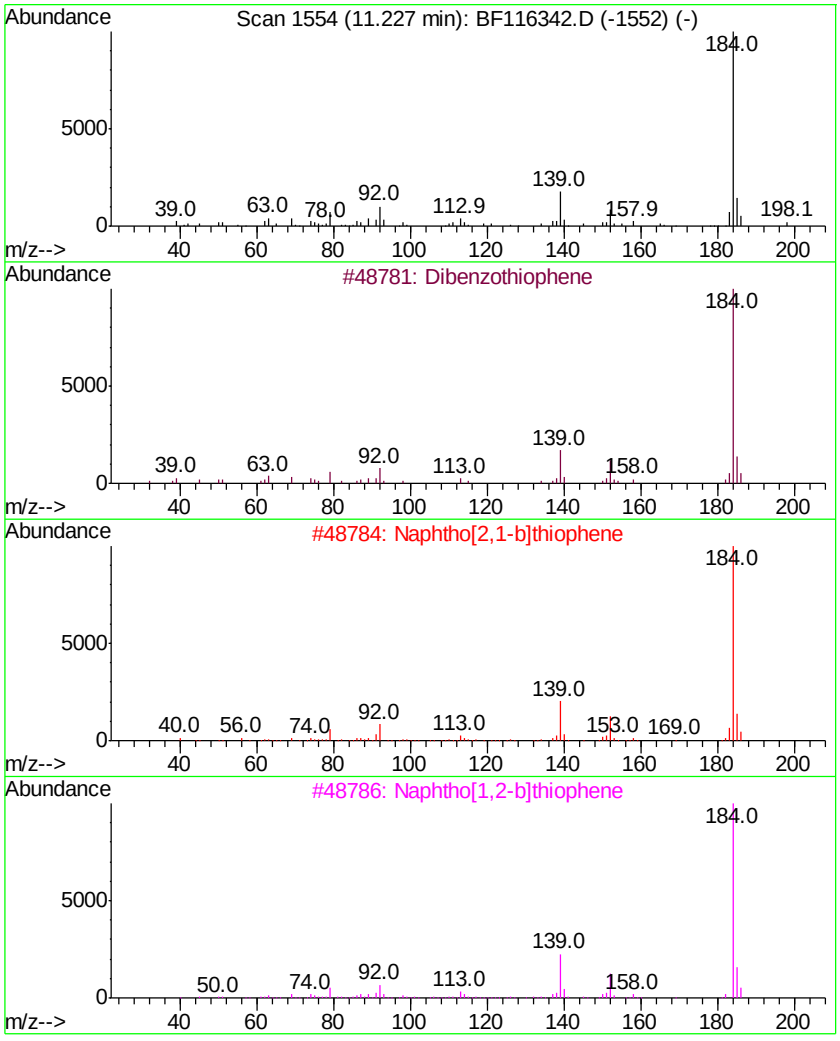
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

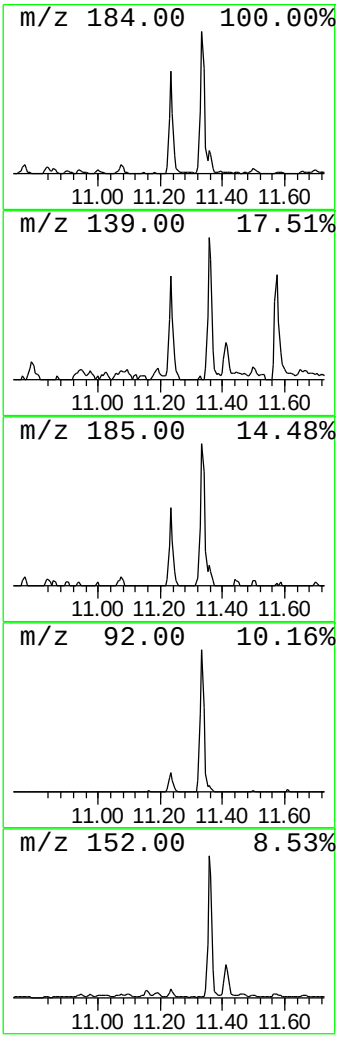
****

Peak Number 3 Dibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	2.40 ng	129118	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
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Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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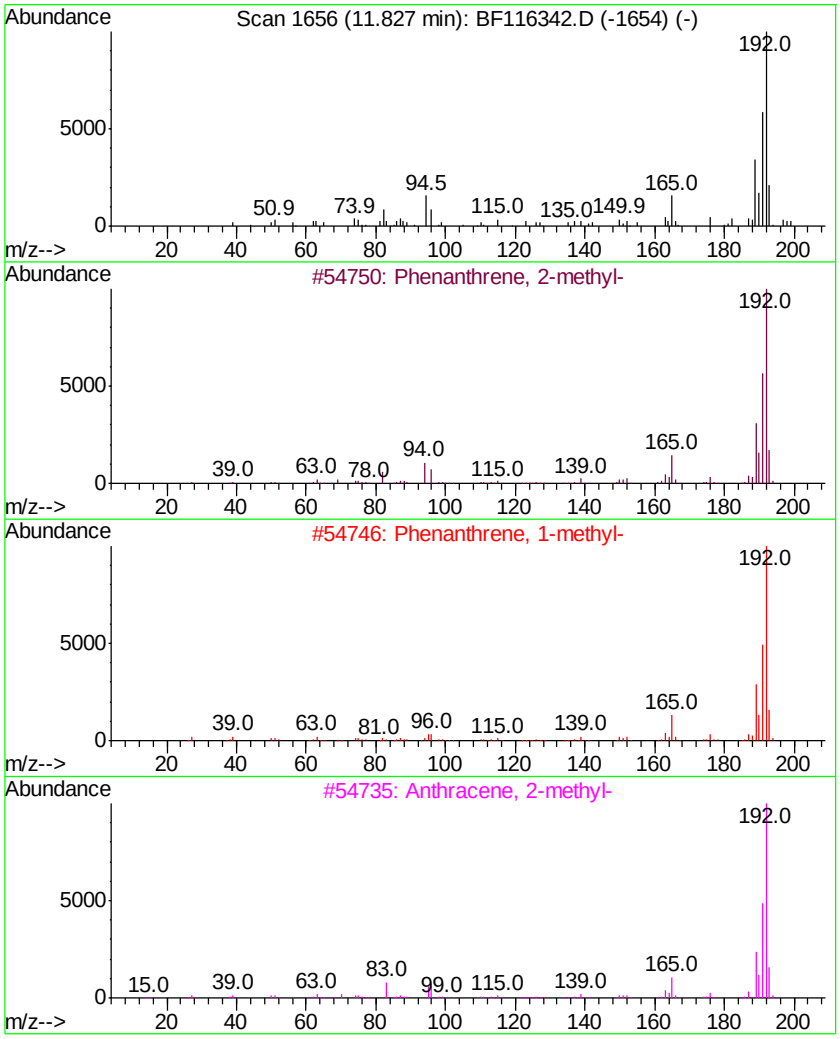
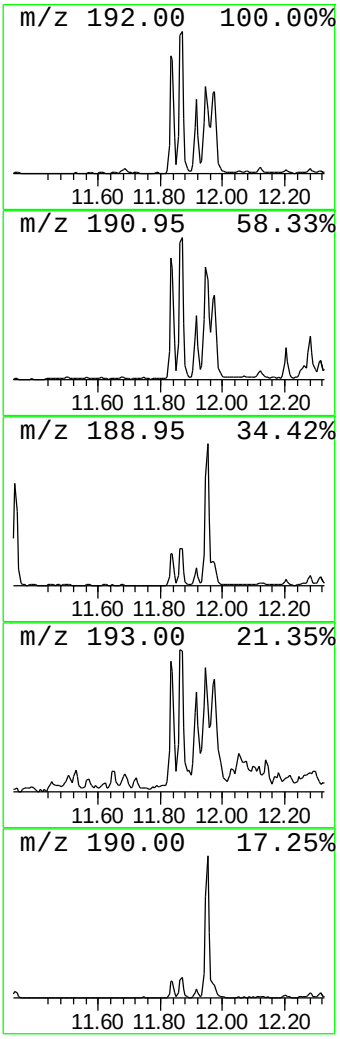
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	4.60 ng	246934	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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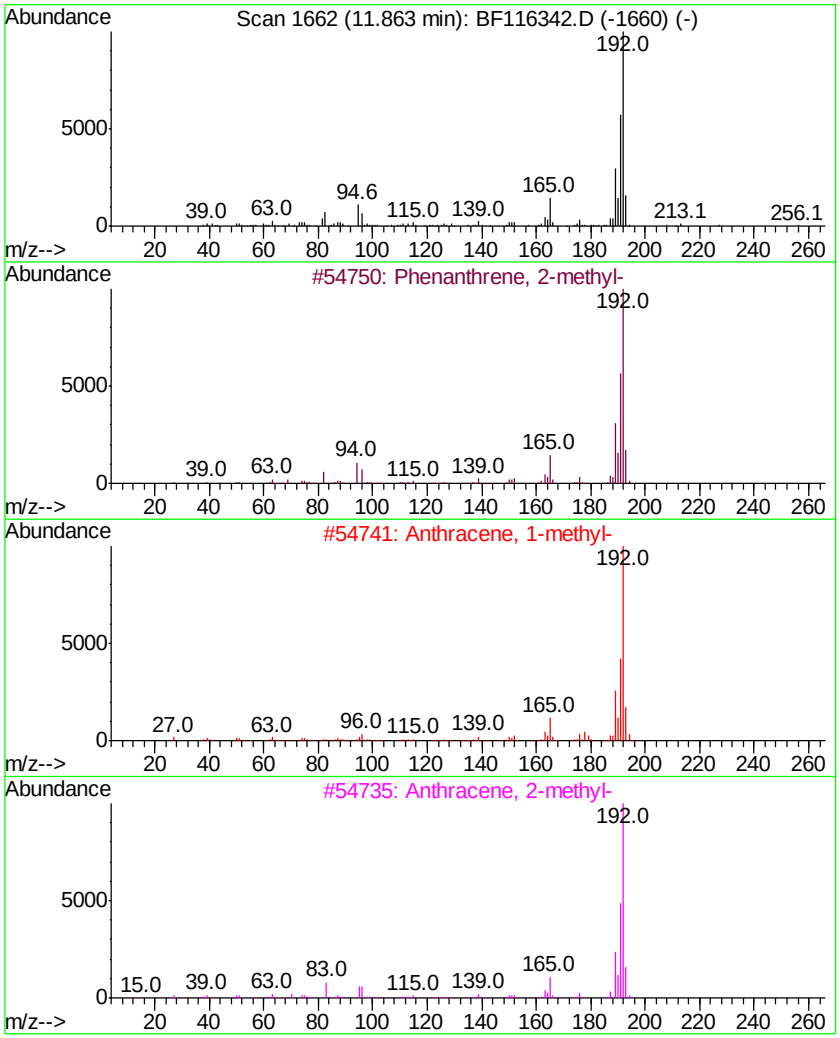
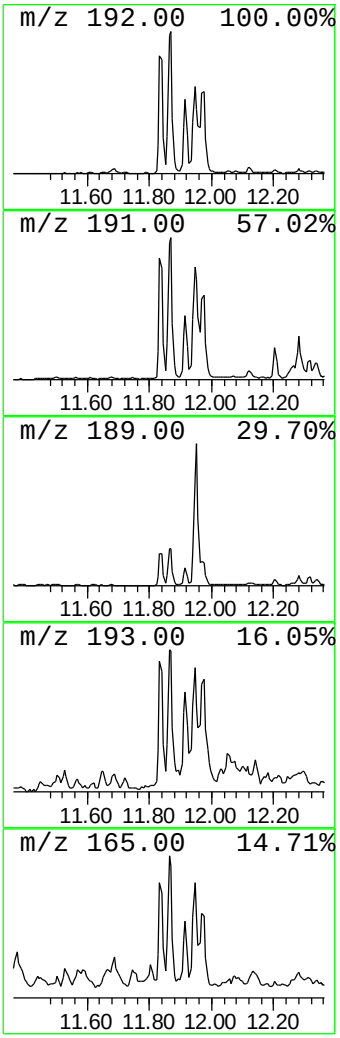
Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	7.29 ng	391723	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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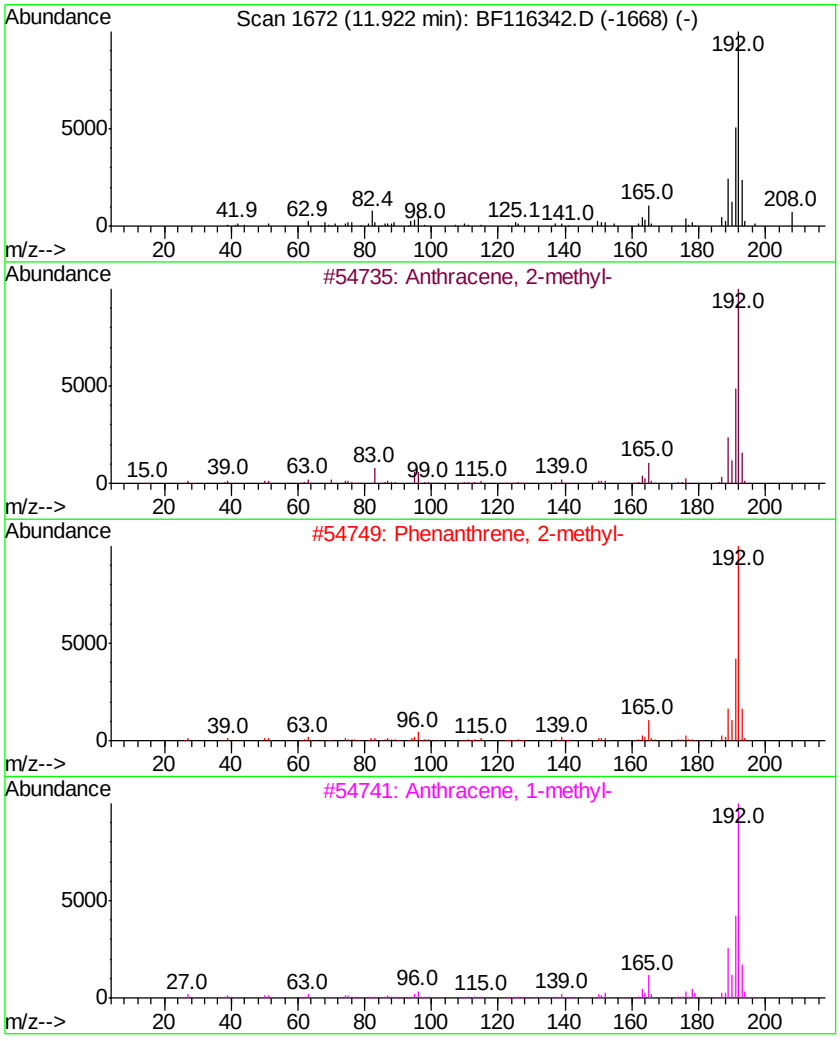
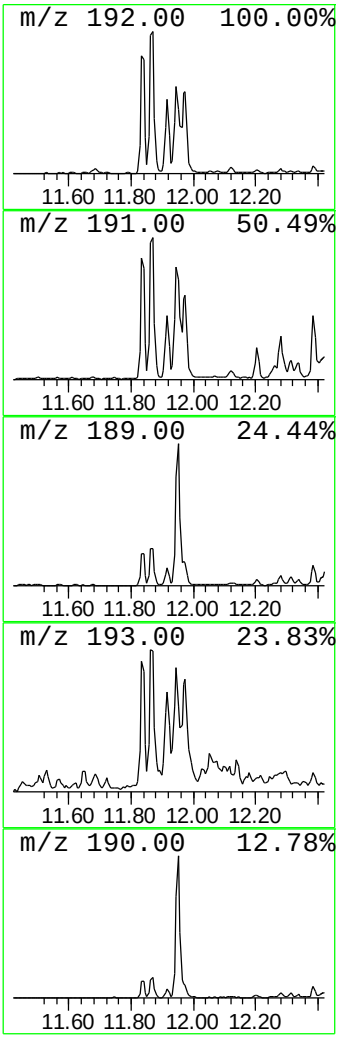
Peak Number 6 Anthracene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	2.47 ng	132788	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94





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Sample : K4228-17
Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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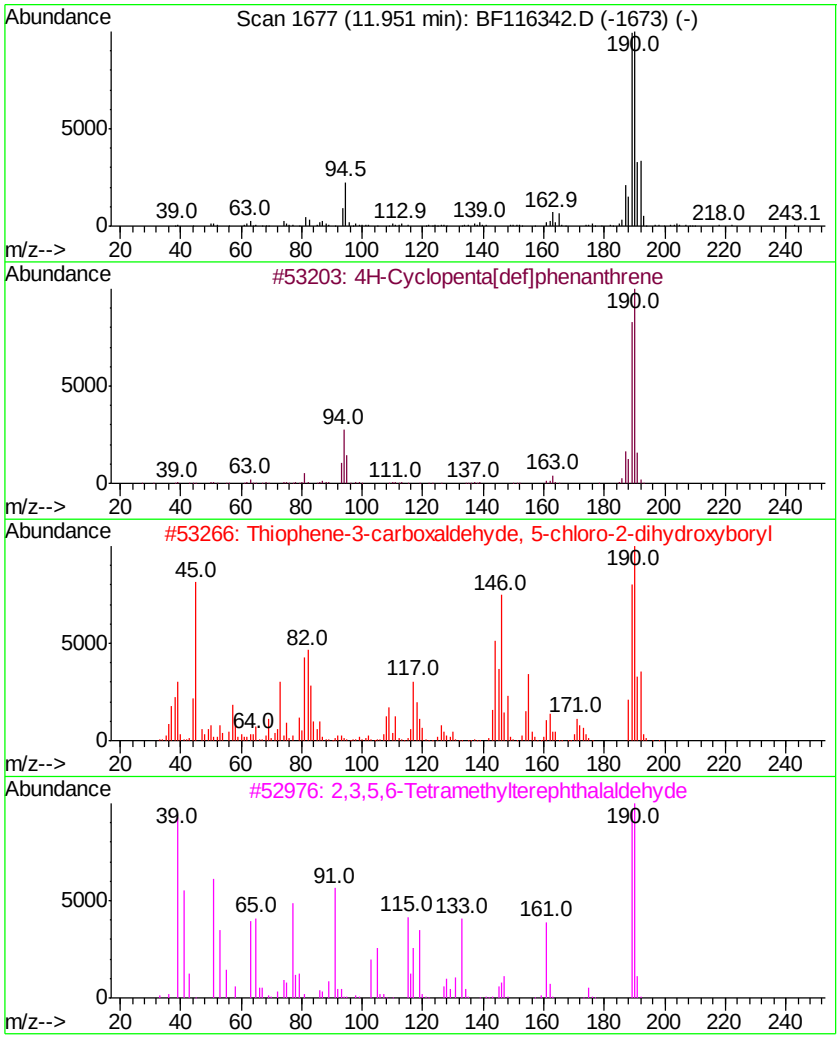
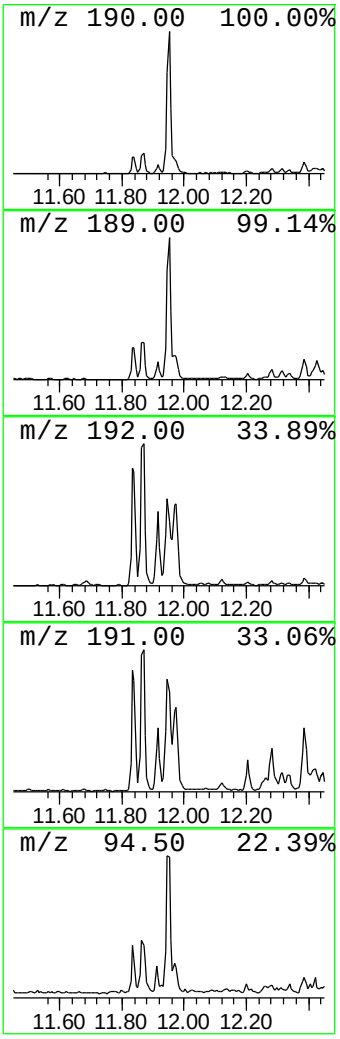
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	9.21 ng	494629	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





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ClientSampleId : 2S-I1-I4-COMP-(1)

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

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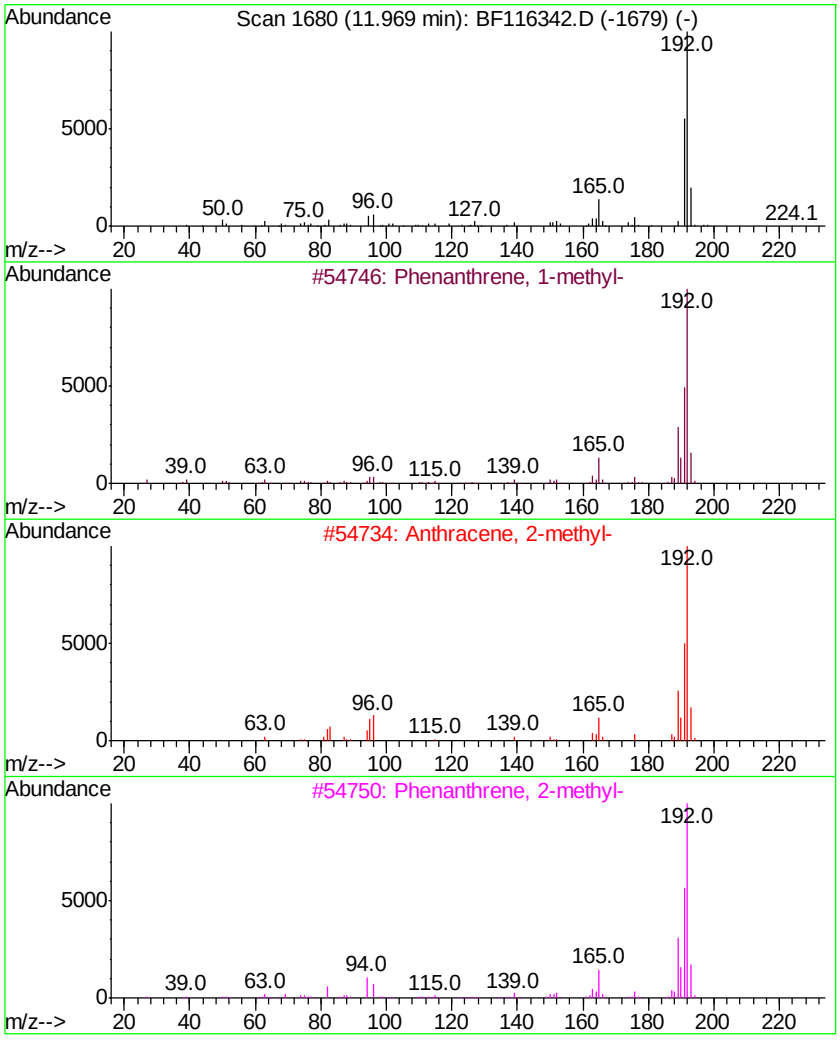
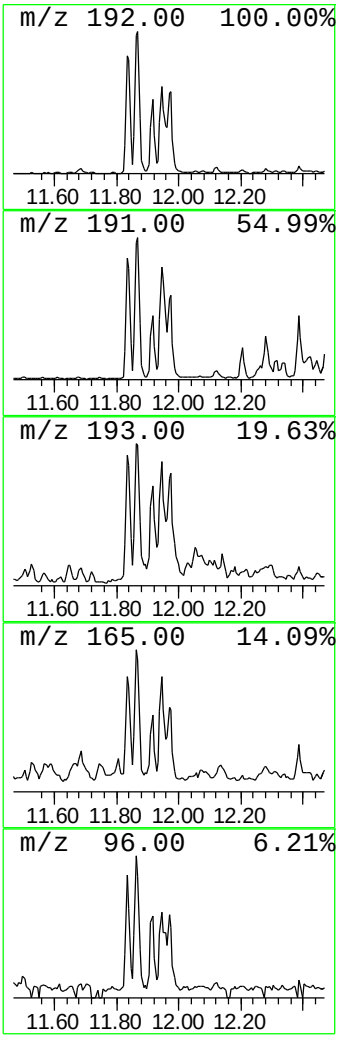
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	2.92 ng	156791	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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

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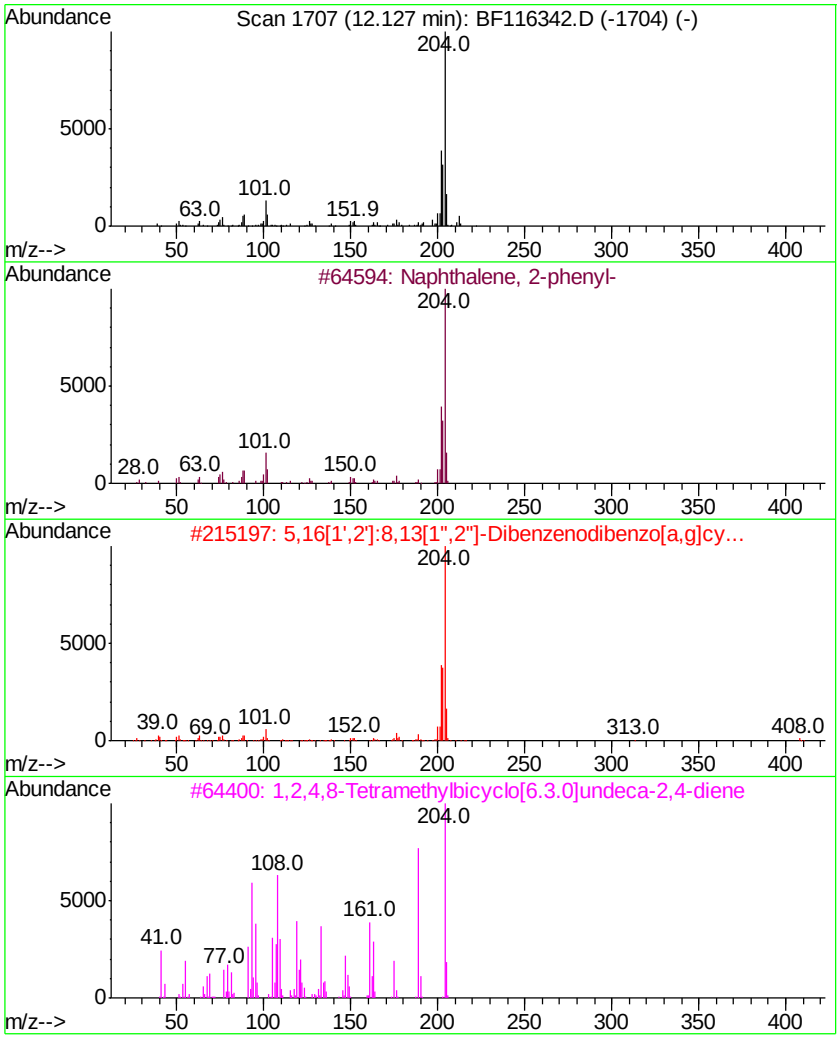
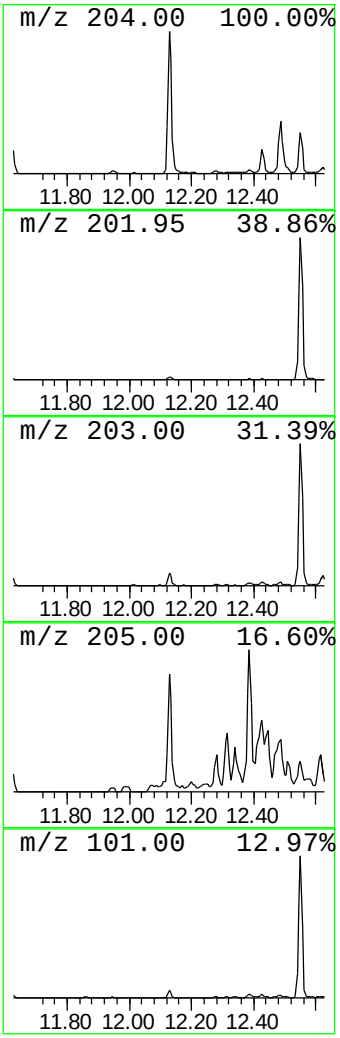
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	3.32 ng	178544	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58





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Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

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TIC Library : C:\DATABASE\NIST11.L
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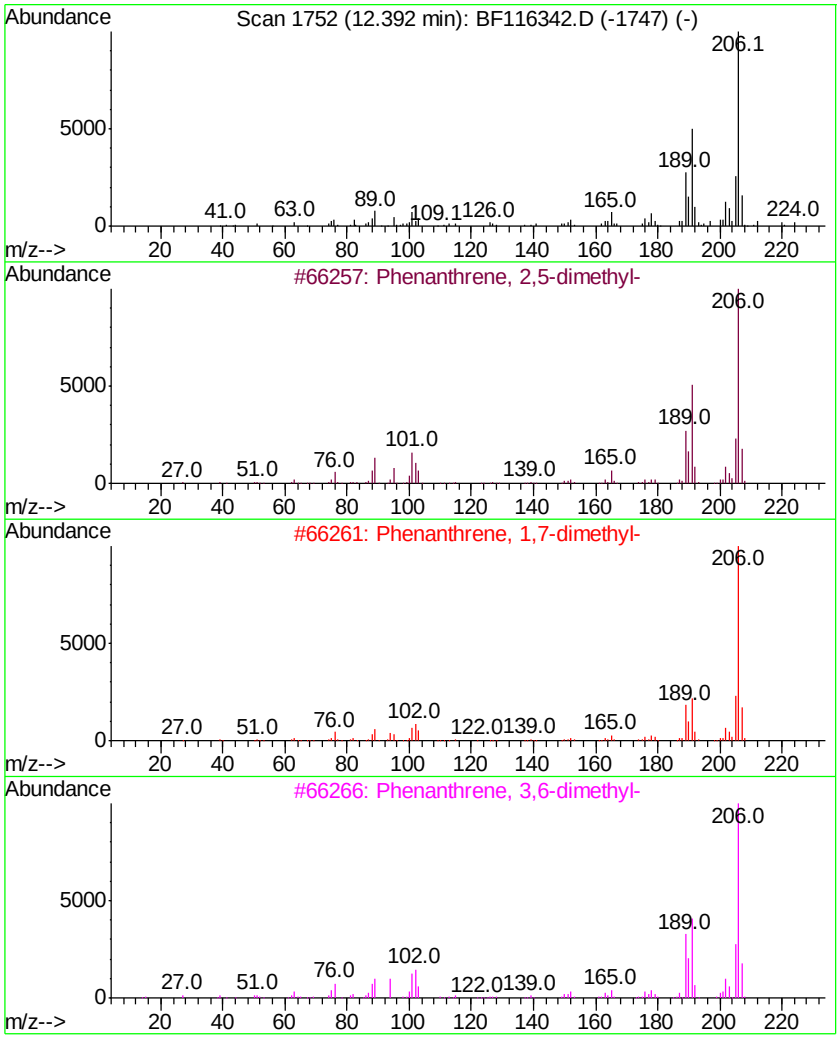
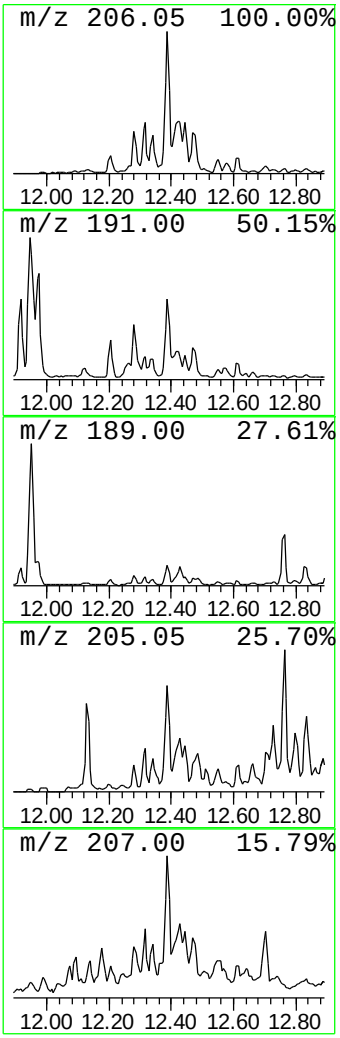
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	3.36 ng	180519	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	91





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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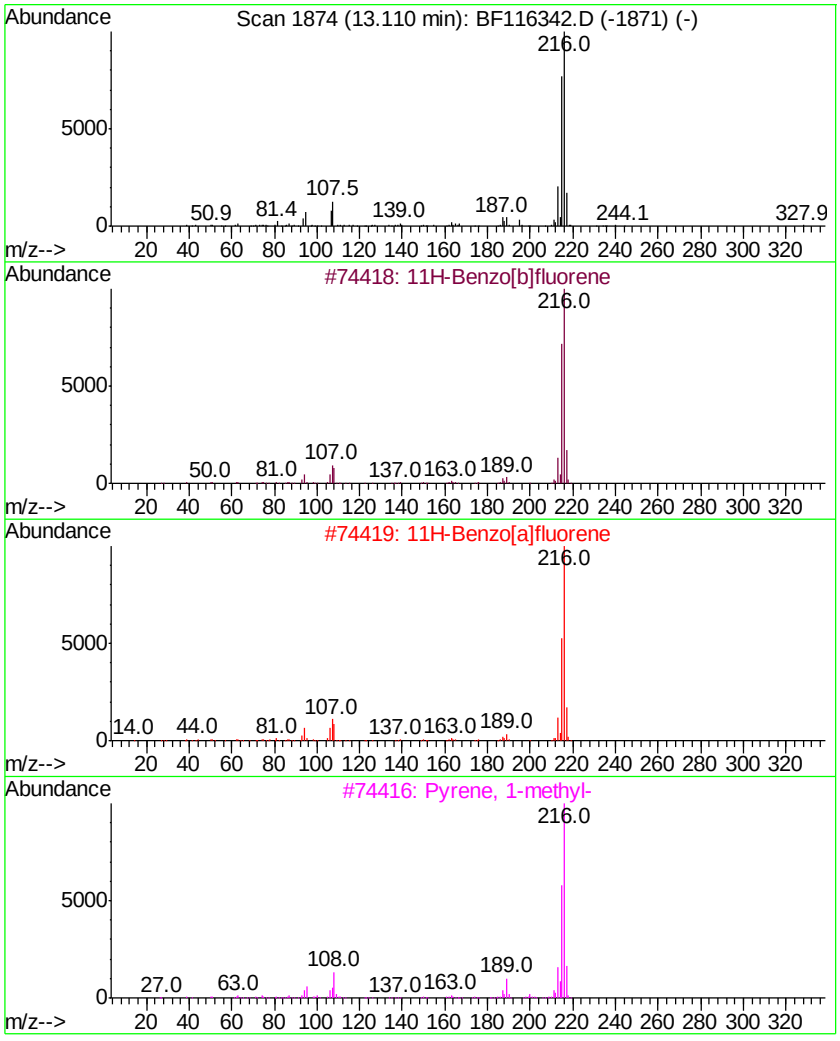
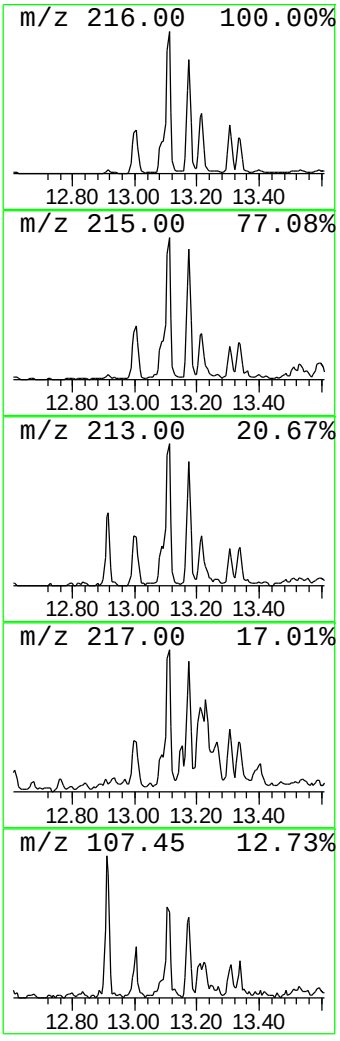
Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	2.62 ng	294346	Chrysene-d12	13.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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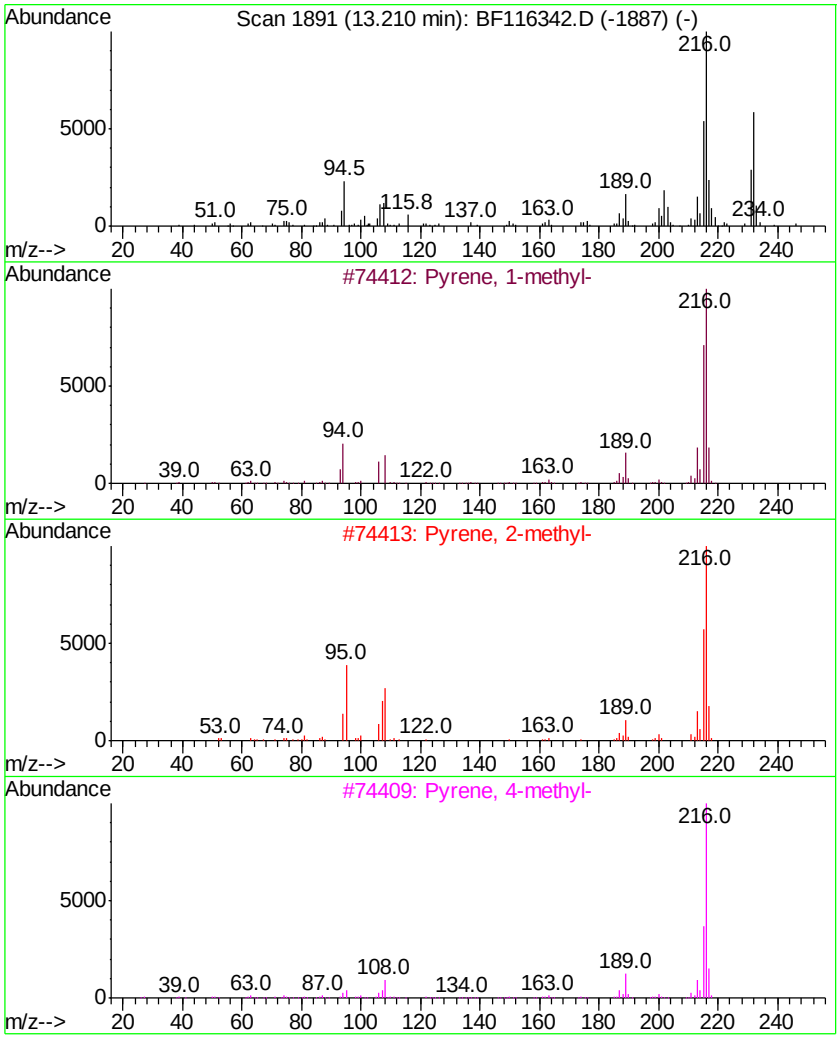
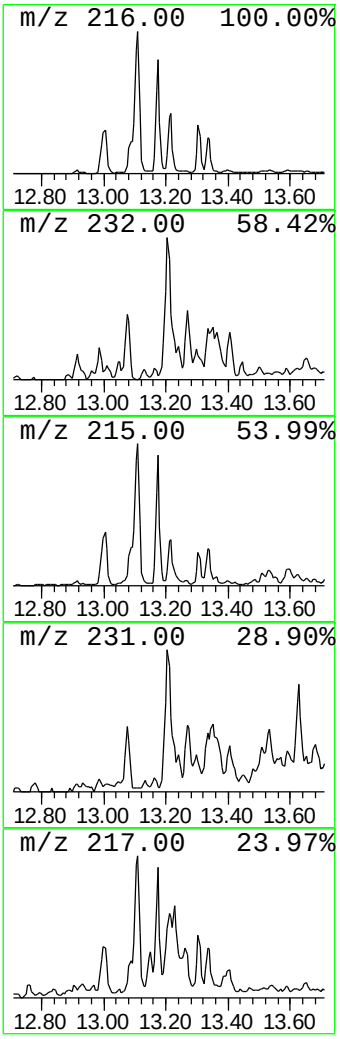
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	2.58 ng	290087	Chrysene-d12	13.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	55
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	49
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	42





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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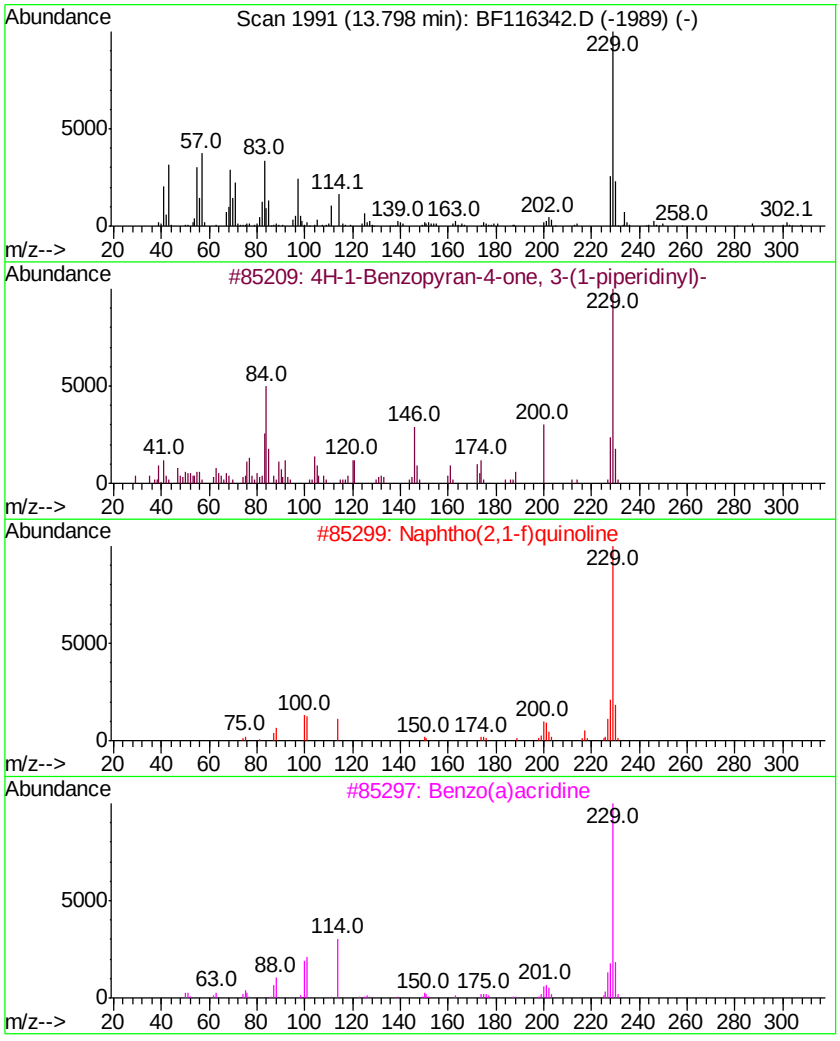
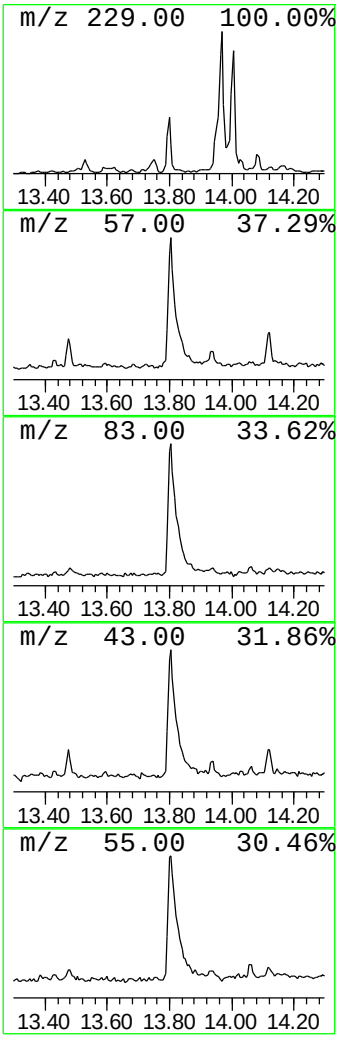
Peak Number 13 4H-1-Benzopyran-4-one, 3-(1... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	3.60 ng	404420	Chrysene-d12	13.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-1-Benzopyran-4-one, 3-(1-pipe...	229	C14H15NO2	040302-79-2	50
2	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	47
3	Benzo(a)acridine	229	C17H11N	000225-11-6	38
4	2-(3-Fluorophenyl)-1,3-benzothia...	229	C13H8FNS	1000298-18-6	37
5	Terephthalic acid, 2-chloroethyl...	368	C20H29ClO4	1000323-94-8	28





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TIC Library : C:\DATABASE\NIST11.L
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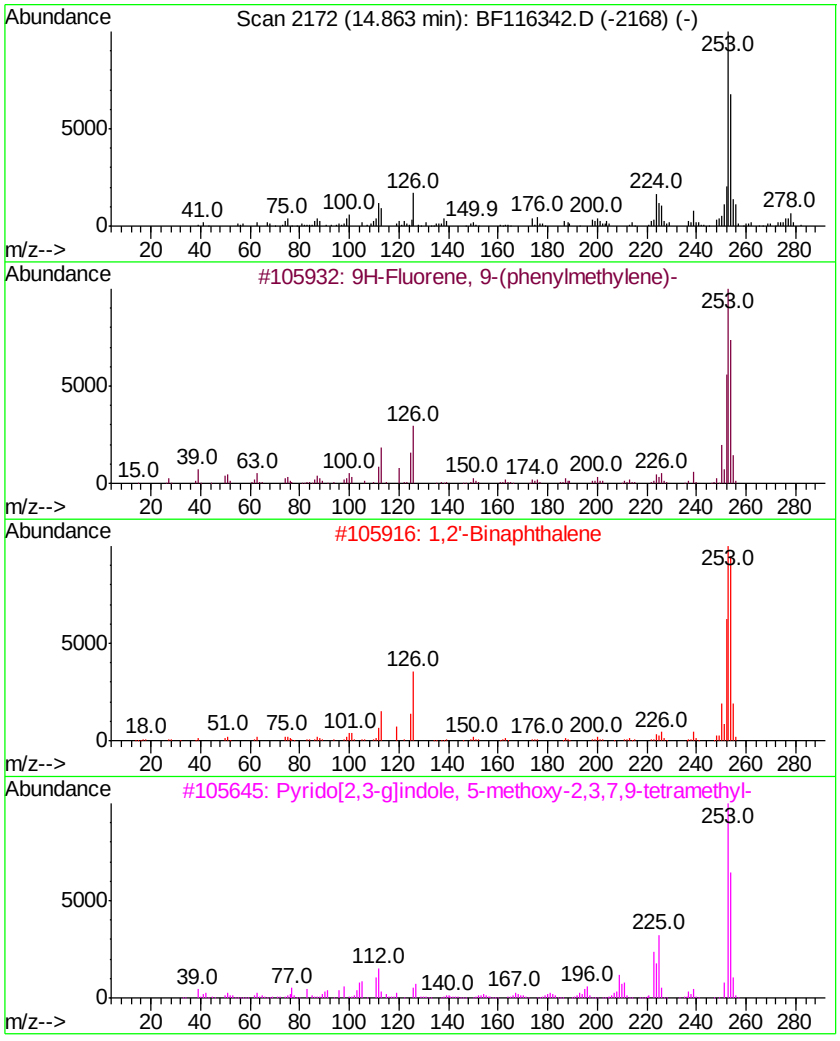
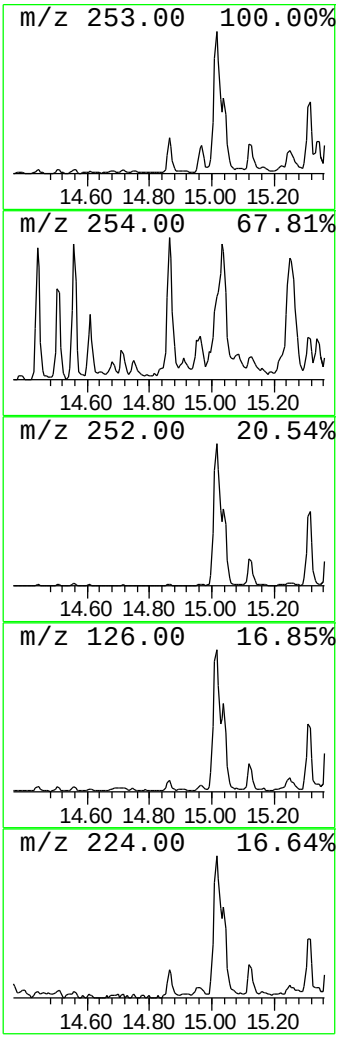
Peak Number 14 9H-Fluorene, 9-(phenylmethy... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	3.17 ng	136846	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	76
2	1,2'-Binaphthalene	254	C20H14	004325-74-0	68
3	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	64
4	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	60
5	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	58





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TIC Library : C:\DATABASE\NIST11.L
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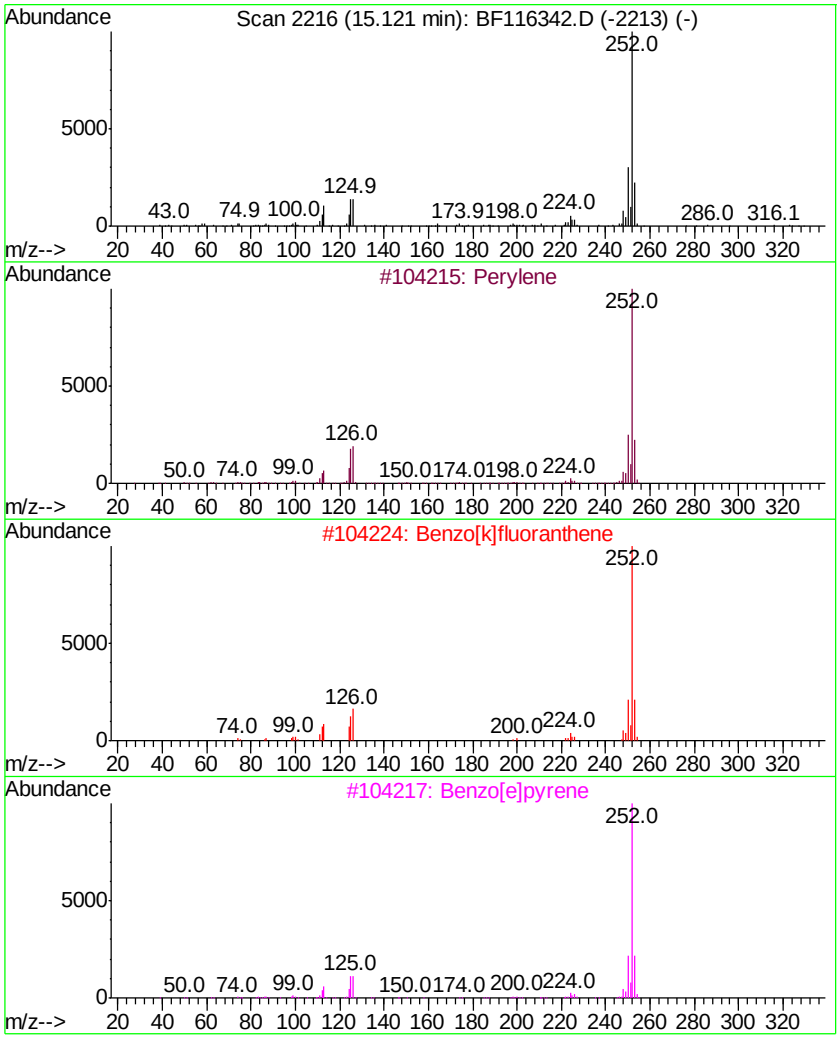
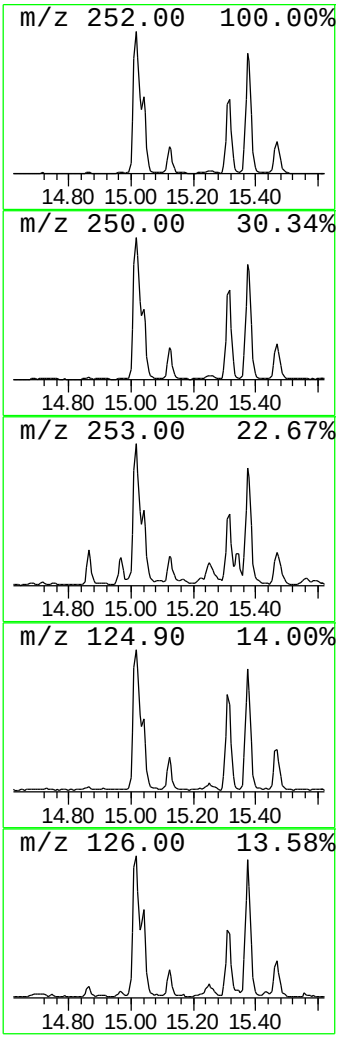
Peak Number 15 Perylene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	4.92 ng	212378	Perylene-d12	15.43

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





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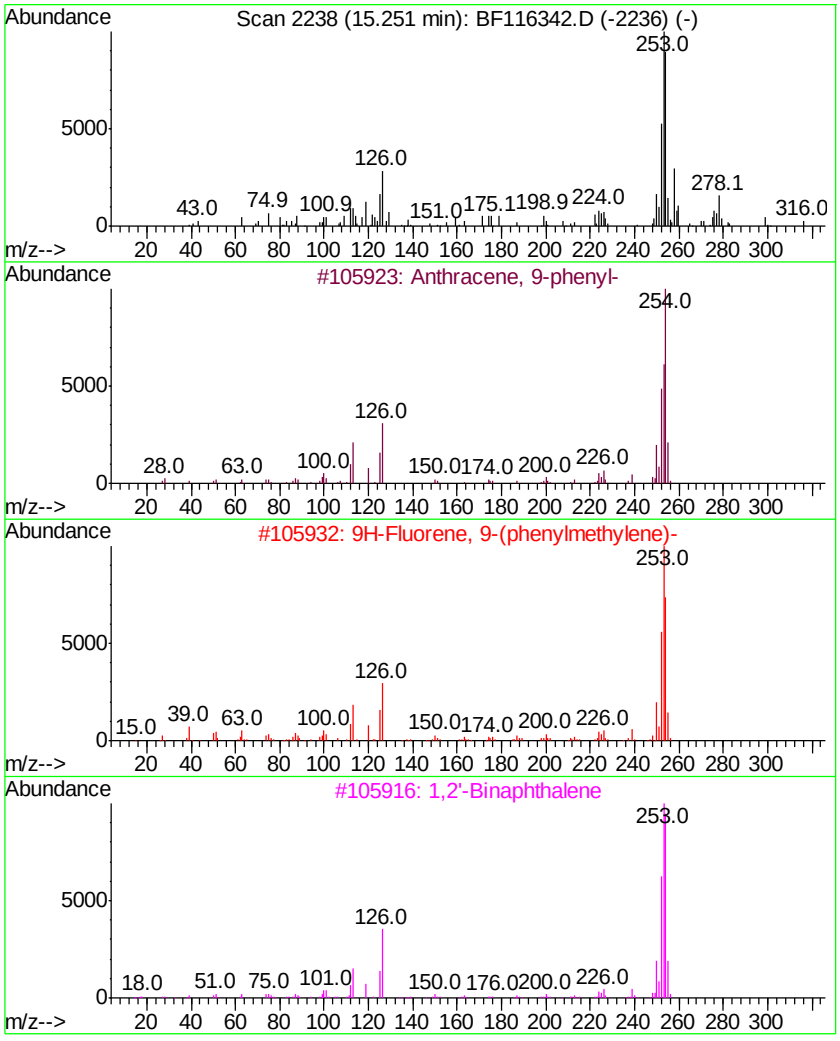
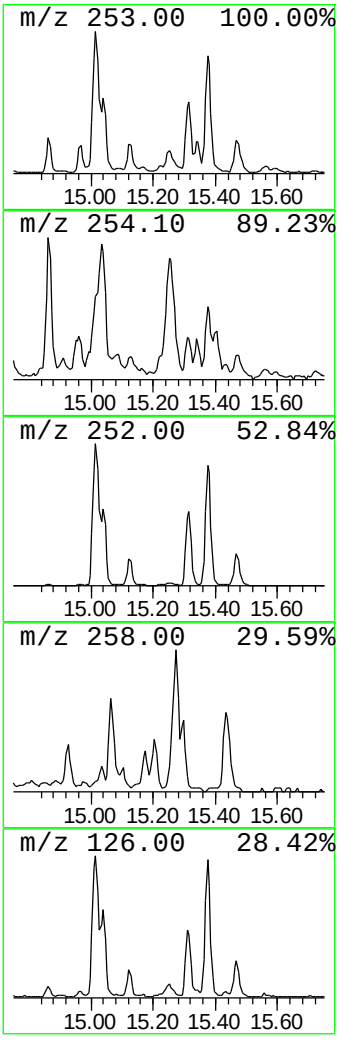
Peak Number 16 Anthracene, 9-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.25	3.17 ng	136851	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	64
2	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	64
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	64
4	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	60
5	1,1'-Binaphthalene	254	C20H14	000604-53-5	53





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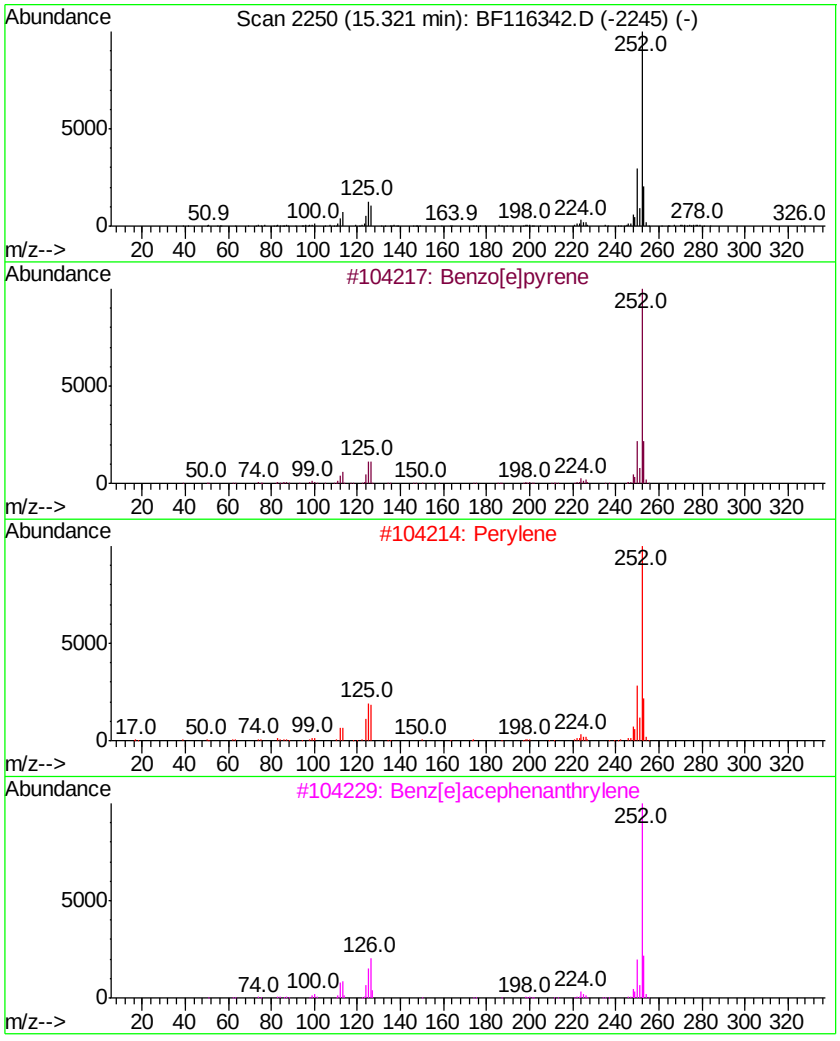
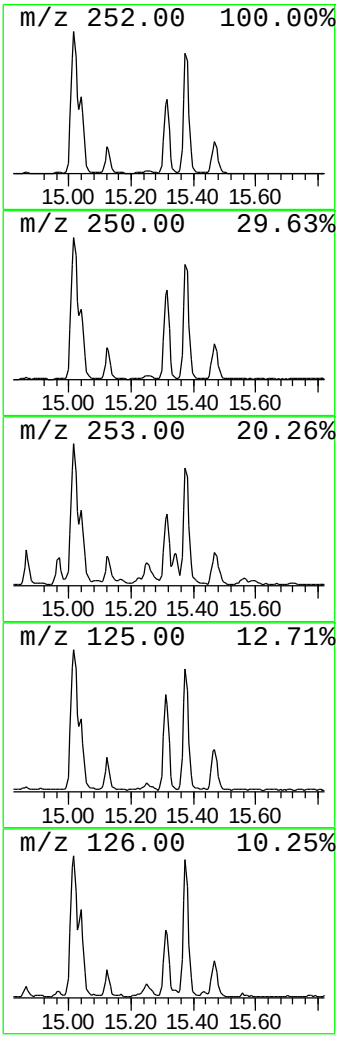
Peak Number 17 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	14.28 ng	616791	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

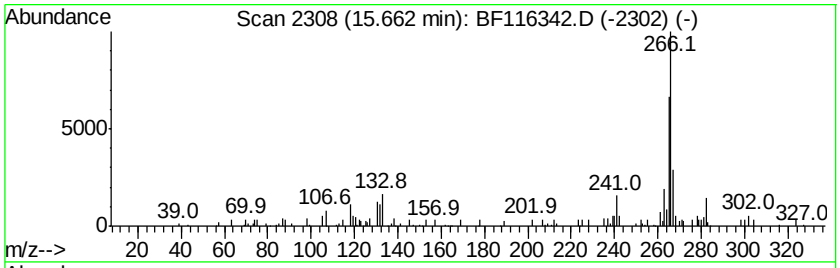
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

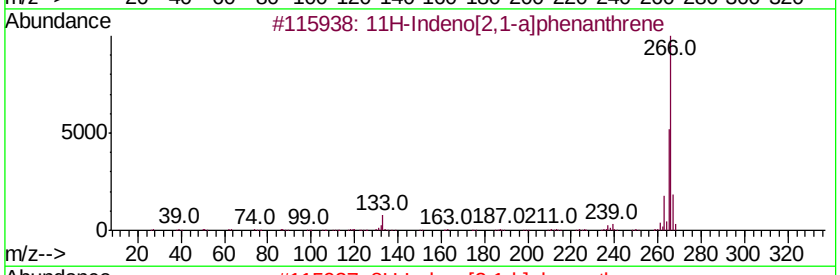
****

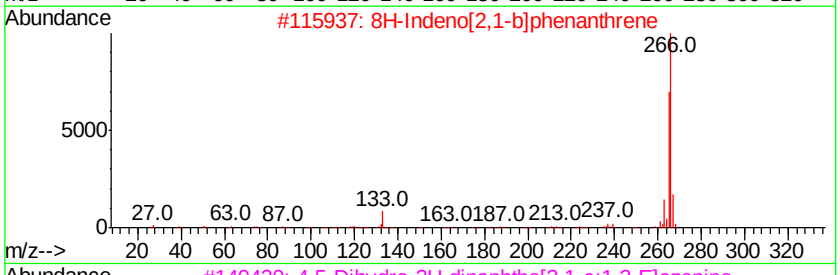
Peak Number 18 8H-Indeno[2,1-b]phenanthrene Concentration Rank 16

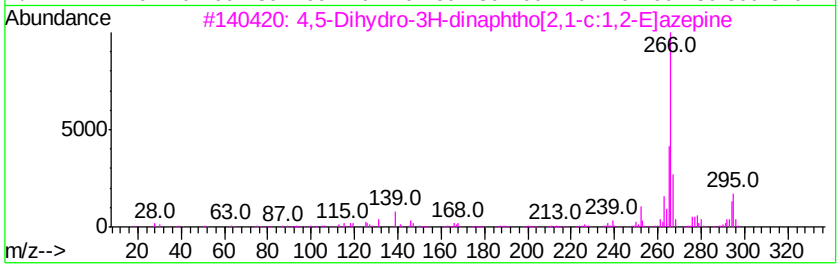
R.T.	EstConc	Area	Relative to ISTD	R.T.
15.66	2.66 ng	114787	Perylene-d12	15.43

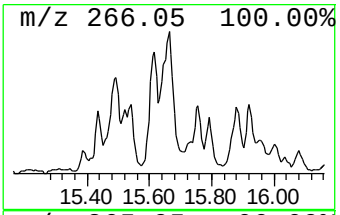
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	70
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	68
3	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	59
4	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	58
5	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	58

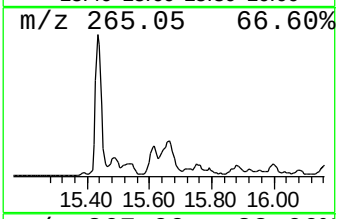


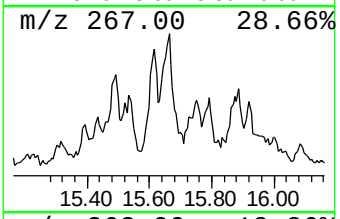


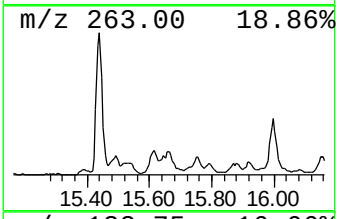


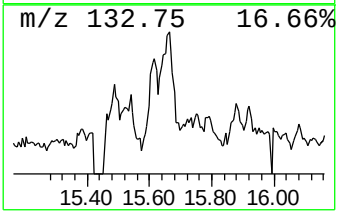












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Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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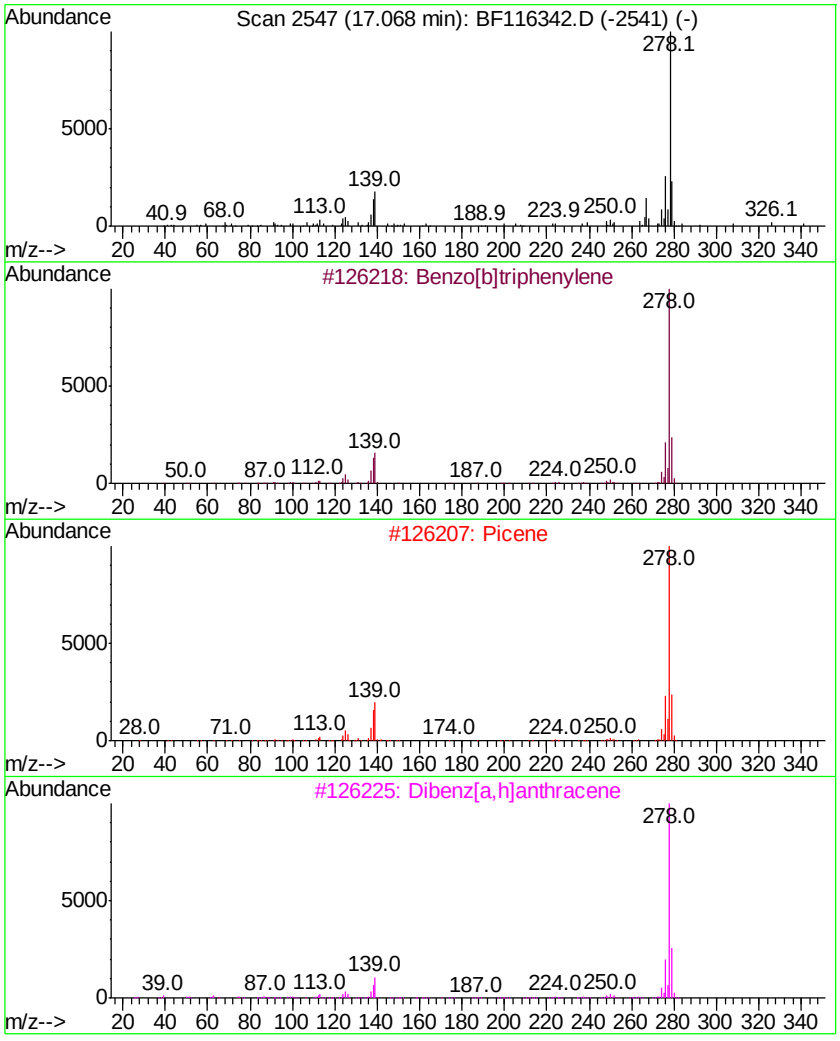
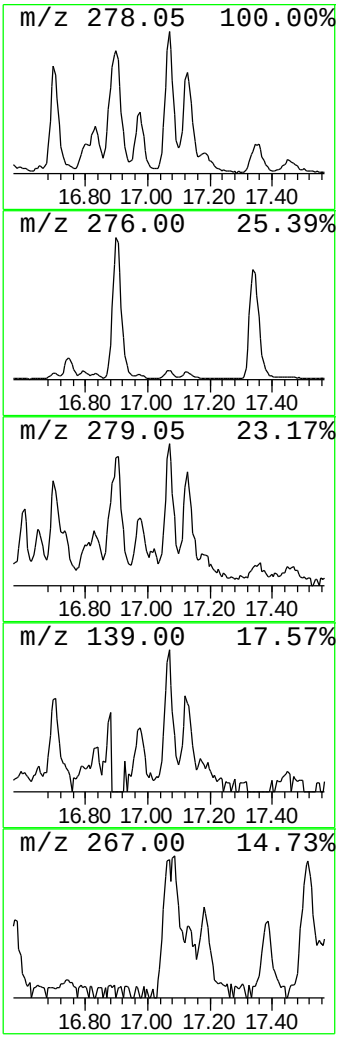
Peak Number 19 Benzo[b]triphenylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.07	3.73 ng	160984	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	Picene	278	C22H14	000213-46-7	95
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	92
4	Pentaphene	278	C22H14	000222-93-5	92
5	Pyrene, 1-phenyl-	278	C22H14	005101-27-9	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

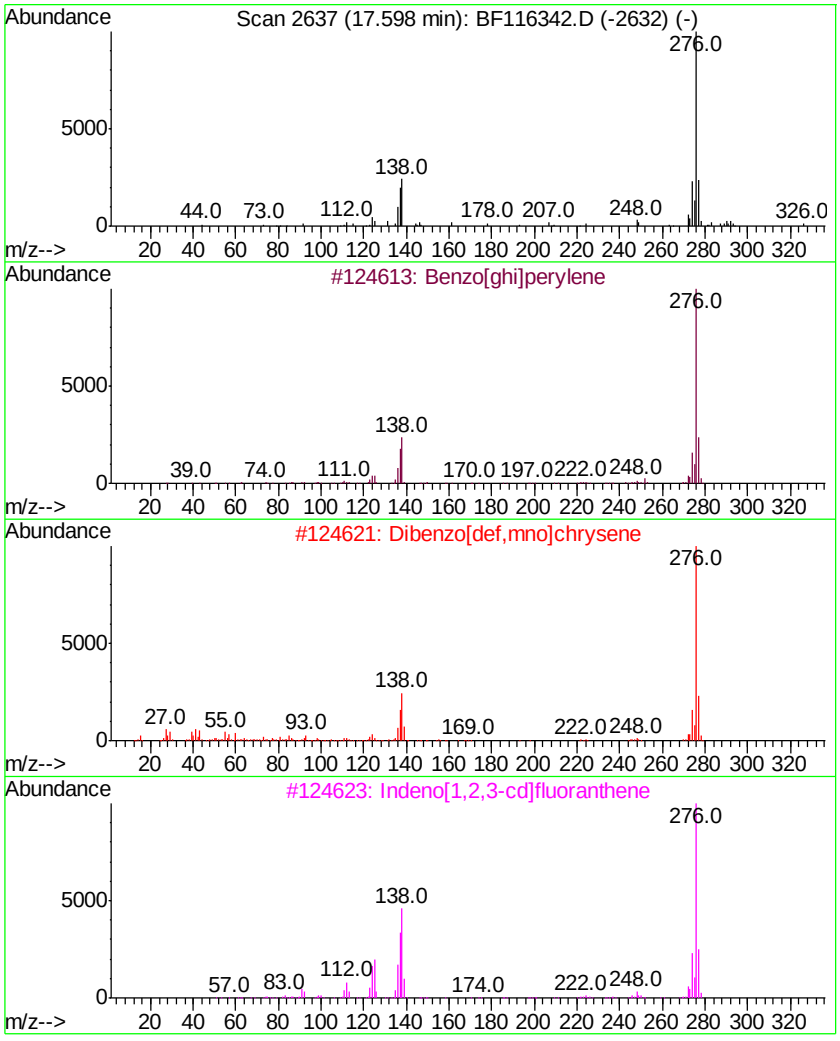
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

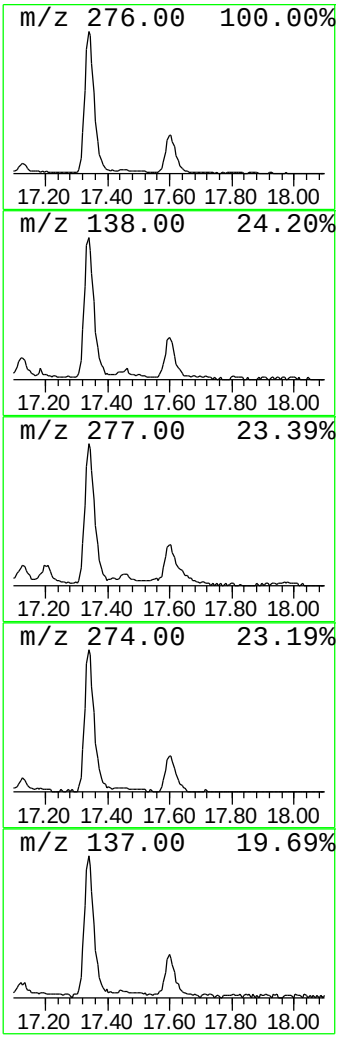
****

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.60	2.96 ng	127879	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
3	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	91
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	46





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF081619\
Data File : BF116342.D
Acq On : 17 Aug 2019 2:34
Operator : HP/JU
Sample : K4228-17
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-I1-I4-COMP-(1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.59	6.59	69.4	ng	2899260	1	6.82	835562	20.0
Dibenzothiophene	11.23	2.4	ng	129118	4	11.33	1074560	20.0
Phenanthrene, 2-m...	11.83	4.6	ng	246934	4	11.33	1074560	20.0
Phenanthrene, 1-m...	11.86	7.3	ng	391723	4	11.33	1074560	20.0
Anthracene, 1-met...	11.92	2.5	ng	132788	4	11.33	1074560	20.0
4H-Cyclopenta[def...	11.95	9.2	ng	494629	4	11.33	1074560	20.0
Anthracene, 2-met...	11.97	2.9	ng	156791	4	11.33	1074560	20.0
Naphthalene, 2-ph...	12.13	3.3	ng	178544	4	11.33	1074560	20.0
Phenanthrene, 2,5...	12.39	3.4	ng	180519	4	11.33	1074560	20.0
11H-Benzo[b]fluorene	13.11	2.6	ng	294346	5	13.98	2248110	20.0
Pyrene, 1-methyl-	13.21	2.6	ng	290087	5	13.98	2248110	20.0
4H-1-Benzopyran-4...	13.80	3.6	ng	404420	5	13.98	2248110	20.0
9H-Fluorene, 9-(p...	14.86	3.2	ng	136846	6	15.43	864012	20.0
Perylene	15.12	4.9	ng	212378	6	15.43	864012	20.0
Anthracene, 9-phe...	15.25	3.2	ng	136851	6	15.43	864012	20.0
Benzo[e]pyrene	15.32	14.3	ng	616791	6	15.43	864012	20.0
8H-Indeno[2,1-b]p...	15.66	2.7	ng	114787	6	15.43	864012	20.0
Benzo[b]triphenylene	17.07	3.7	ng	160984	6	15.43	864012	20.0
Dibenzo[def,mno]c...	17.60	3.0	ng	127879	6	15.43	864012	20.0