LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115692.D
Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

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-BF071219.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	2.205	15	20	34	rVB	486730	685776	17.50%	0.957%
2	5.510	577	582	585	rBV	3613747	3615818	92.26%	5.048%
3	6.516	747	753	756	rBV	3583839	3827080	97.66%	5.343%
4	6.651	772	776	780	rBV	3686983	3918954	100.00%	5.471%
5	6.716	783	787	792	rVV2	161096	182781	4.66%	0.255%
6	6.881	811	815	819	rBV	1516117	1230993	31.41%	1.718%
7	7.040	838	842	845	rBV	3365347	2921684	74.55%	4.079%
8	7.145	856	860	867	rBV	112099	125967	3.21%	0.176%
9	7.439	904	910	913	rBV	2330789	2492161	63.59%	3.479%
10	7.734	958	960	967	rVB	157033	132619	3.38%	0.185%
11	8.163	1028	1033	1035	rBV	1892506	1579789	40.31%	2.205%
12	8.187	1035	1037	1040	rVB	817259	635867	16.23%	0.888%
13	8.375	1065	1069	1073	rBV	158745	143579	3.66%	0.200%
14	8.434	1076	1079	1086	rVV	148479	146501	3.74%	0.205%
15	8.875	1150	1154	1160	rBV	1369093	1139580	29.08%	1.591%
16	8.975	1167	1171	1175	rBV	1177570	931545	23.77%	1.300%
17	9.239	1209	1216	1219	rBV	4486992	3784001	96.56%	5.283%
18	9.339	1226	1233	1235	rBV	153232	145889	3.72%	0.204%
19	9.504	1254	1261	1265	rBV	477553	646577	16.50%	0.903%
20	9.575	1269	1273	1276	rVV	708052	727788	18.57%	1.016%
21	9.604	1276	1278	1280	rVV	497653	391748	10.00%	0.547%
22	9.628	1280	1282	1290	rVV2	654873	611236	15.60%	0.853%
23	9.692	1290	1293	1302	rVB	311288	363493	9.28%	0.507%
24	9.781	1304	1308	1312	rVB	463727	416582	10.63%	0.582%
25	9.898	1324	1328	1329	rBV	197695	174104	4.44%	0.243%
26	9.922	1329	1332	1335	rVV	1806649	1590772	40.59%	2.221%
27	9.951	1335	1337	1340	rVB2	329301	264505	6.75%	0.369%
28	10.122	1362	1366	1370	rVV	296621	272571	6.96%	0.381%
29	10.163	1370	1373	1376	rVV	205551	170147	4.34%	0.238%
30	10.233	1380	1385	1388	rBV2	163259	196238	5.01%	0.274%
31	10.263	1388	1390	1396	rVB	160649	137516	3.51%	0.192%
32	10.328	1396	1401	1402	rBV2	112696	145907	3.72%	0.204%
33	10.463	1421	1424	1430	rVB	823164	827067	21.10%	1.155%
34	10.533	1430	1436	1437	rBV3	103021	135219	3.45%	0.189%

LSC Area Percent Report

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Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.622	1448	1451	1454	rVB	138298	113032	2.88%	0.158%
36	10.710	1460	1466	1470	rBV	2257517	2266627	57.84%	3.164%
37	10.833	1482	1487	1492	rVB3	120362	142407	3.63%	0.199%
38	11.016	1510	1518	1520	rVV2	316157	408385	10.42%	0.570%
39	11.039	1520	1522	1525	rVV	175202	168456	4.30%	0.235%
40	11.098	1529	1532	1535	rVV	182331	156992	4.01%	0.219%
41	11.163	1541	1543	1548	rVV2	94224	128114	3.27%	0.179%
42	11.210	1548	1551	1555	rVV3	146492	158633	4.05%	0.221%
43	11.298	1563	1566	1571	rVB	279579	265041	6.76%	0.370%
44	11.404	1580	1584	1586	rBV	1382175	1318770	33.65%	1.841%
45	11.433	1586	1589	1592	rVV	3225474	2706950	69.07%	3.779%
46	11.480	1592	1597	1600	rVV	618617	503925	12.86%	0.703%
47	11.698	1631	1634	1637	rVB	166686	135222	3.45%	0.189%
48	11.733	1637	1640	1646	rVB2	208063	216339	5.52%	0.302%
49	11.816	1652	1654	1658	rVB	123642	134289	3.43%	0.187%
50	11.910	1666	1670	1672	rVV	817902	817080	20.85%	1.141%
51	11.933	1672	1674	1678	rVV	1111119	1058897	27.02%	1.478%
52	11.980	1679	1682	1685	rVV	222399	194215	4.96%	0.271%
53	12.022	1685	1689	1691	rVV2	975025	1095501	27.95%	1.529%
54	12.039	1691	1692	1697	rVB	535998	424689	10.84%	0.593%
55	12.198	1716	1719	1722	rBV	373464	323411	8.25%	0.451%
56	12.222	1722	1723	1730	rVB3	136399	144247	3.68%	0.201%
57	12.380	1748	1750	1753	rBV	160522	140802	3.59%	0.197%
58	12.457	1757	1763	1766	rBV	467487	506264	12.92%	0.707%
59	12.492	1766	1769	1772	rVV2	252828	334765	8.54%	0.467%
60	12.539	1775	1777	1783	rBV2	218085	312850	7.98%	0.437%
61	12.622	1787	1791	1794	rVB	2466951	2027895	51.75%	2.831%
62	12.710	1804	1806	1809	rBV	202202	183347	4.68%	0.256%
63	12.769	1814	1816	1824	rVB2	110370	186937	4.77%	0.261%
64	12.851	1824	1830	1833	rBV	2691904	2756091	70.33%	3.848%
65	12.904	1835	1839	1842	rVB2	110202	157267	4.01%	0.220%
66	12.963	1842	1849	1850	rBV2	124515	146021	3.73%	0.204%
67	12.986	1850	1853	1861	rVB	2628644	2547797	65.01%	3.557%
68	13.063	1862	1866	1874	rBV2	300762	455357	11.62%	0.636%
69	13.151	1878	1881	1883	rBV2	231762	287461	7.34%	0.401%
70	13.174	1883	1885	1888	rVB	589176	517741	13.21%	0.723%
71	13.239	1894	1896	1899	rVB	387548	345317	8.81%	0.482%

LSC Area Percent Report

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Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

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

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.280	1899	1903	1906	rBV2	499615	425204	10.85%	0.594%
73	13.374	1916	1919	1921	rBV	343580	267754	6.83%	0.374%
74	13.404	1921	1924	1927	rVB	361995	305321	7.79%	0.426%
75	13.527	1942	1945	1947	rBV	150407	131303	3.35%	0.183%
76	13.657	1964	1967	1969	rBV2	95215	122225	3.12%	0.171%
77	13.680	1969	1971	1976	rVB	199355	231081	5.90%	0.323%
78	13.792	1985	1990	1993	rBV2	217296	351030	8.96%	0.490%
79	13.821	1993	1995	1997	rVB	229488	166785	4.26%	0.233%
80	13.845	1997	1999	2003	rBV2	155004	152081	3.88%	0.212%
81	13.892	2004	2007	2011	rVB	134234	157570	4.02%	0.220%
82	13.933	2011	2014	2016	rBV3	96247	125720	3.21%	0.176%
83	14.039	2026	2032	2036	rBV3	1701574	3036213	77.48%	4.239%
84	14.074	2036	2038	2046	rVB	1173405	1013935	25.87%	1.415%
85	14.398	2090	2093	2095	rVV	142230	166032	4.24%	0.232%
86	14.433	2095	2099	2102	rVV	465705	533633	13.62%	0.745%
87	14.463	2102	2104	2107	rVV	241935	245447	6.26%	0.343%
88	14.510	2108	2112	2114	rVV4	175640	274766	7.01%	0.384%
89	14.557	2117	2120	2122	rVV	248763	257362	6.57%	0.359%
90	14.580	2122	2124	2127	rVV	229141	207446	5.29%	0.290%
91	14.627	2130	2132	2136	rVB	116792	108838	2.78%	0.152%
92	14.821	2162	2165	2167	rBV	149948	139129	3.55%	0.194%
93	15.092	2206	2211	2214	rBV	706982	1102367	28.13%	1.539%
94	15.198	2226	2229	2233	rVB	179395	183857	4.69%	0.257%
95	15.398	2259	2263	2269	rVB	470164	577718	14.74%	0.807%
96	15.457	2269	2273	2279	rBV	657921	849559	21.68%	1.186%
97	15.521	2280	2284	2287	rVV	655577	849168	21.67%	1.185%
98	15.551	2287	2289	2297	rVB3	247248	332917	8.50%	0.465%
99	17.004	2530	2536	2544	rVB2	227154	441683	11.27%	0.617%
100	17.451	2606	2612	2620	rVB	179588	376591	9.61%	0.526%

Sum of corrected areas: 71631923

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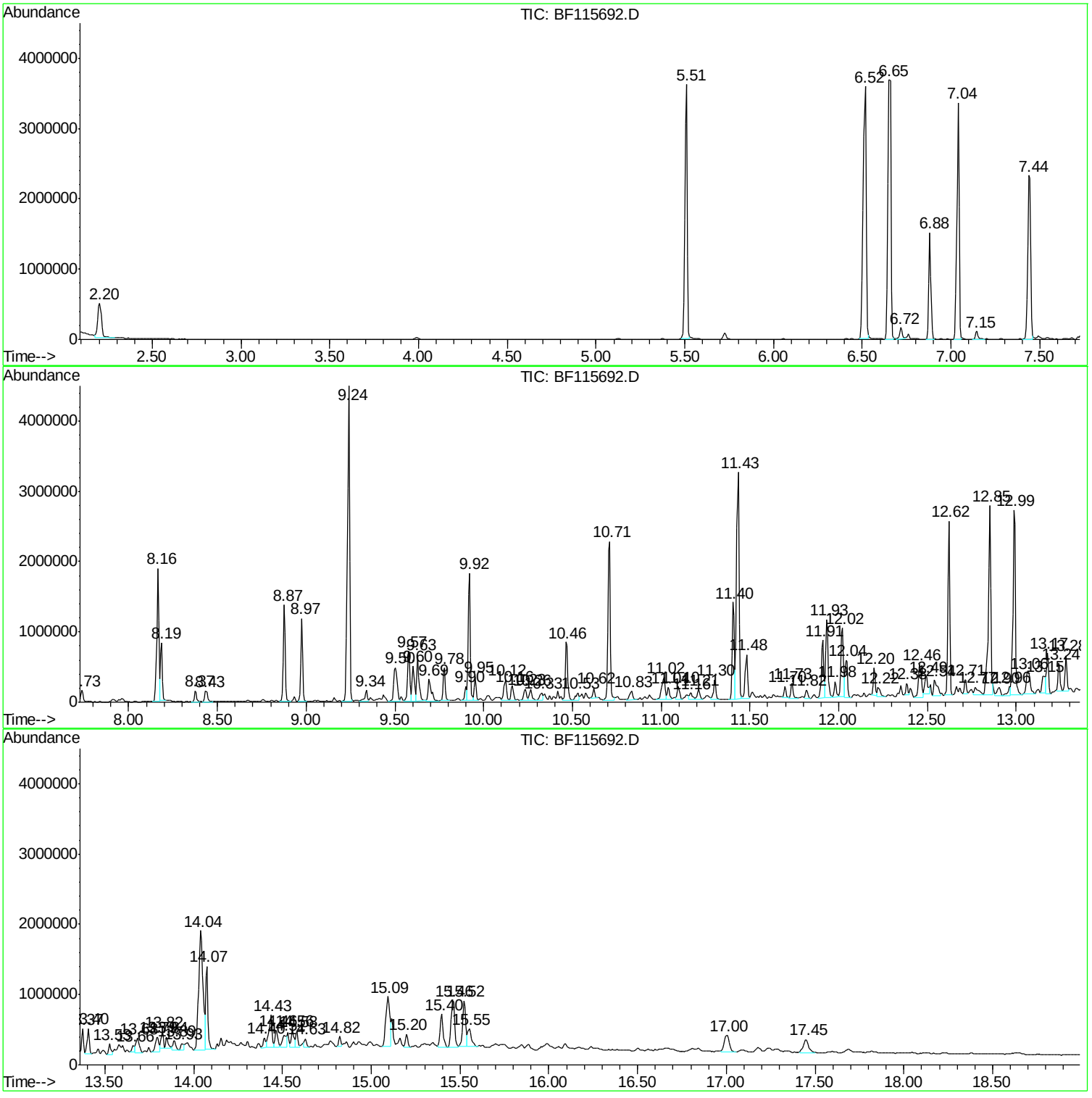
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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\BF071919\
Data File : BF115692.D
Acq On : 20 Jul 2019 00:35
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Misc :
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Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

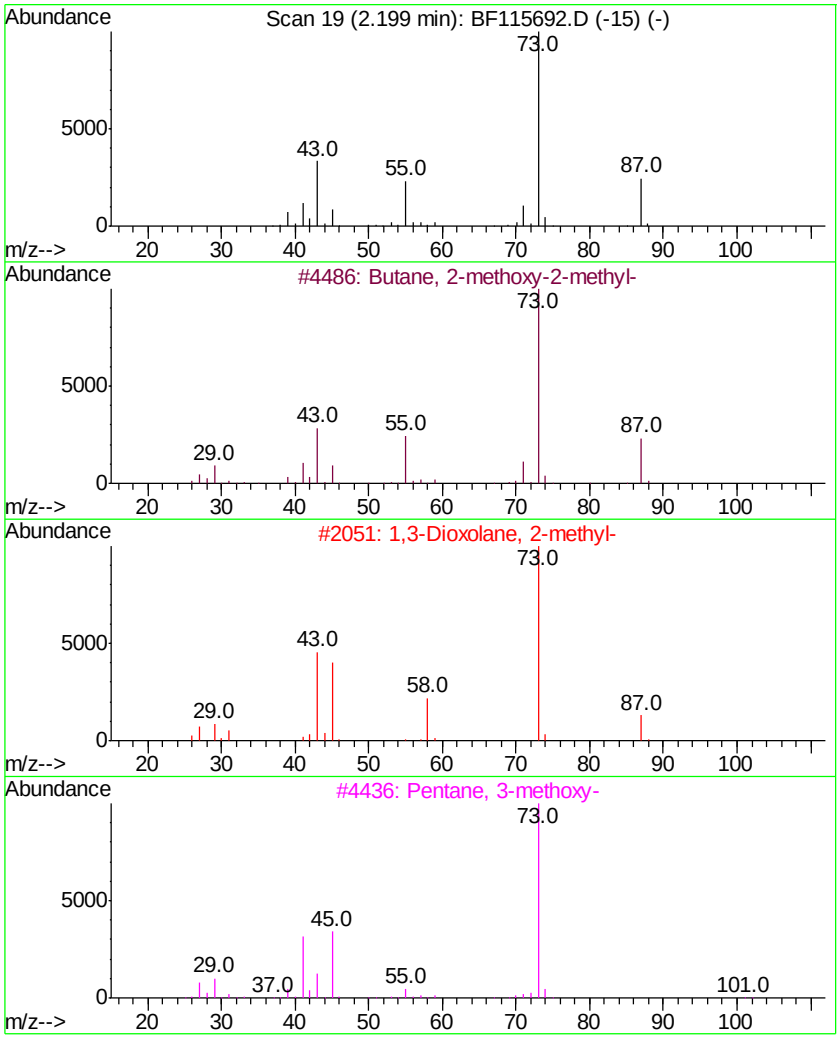
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

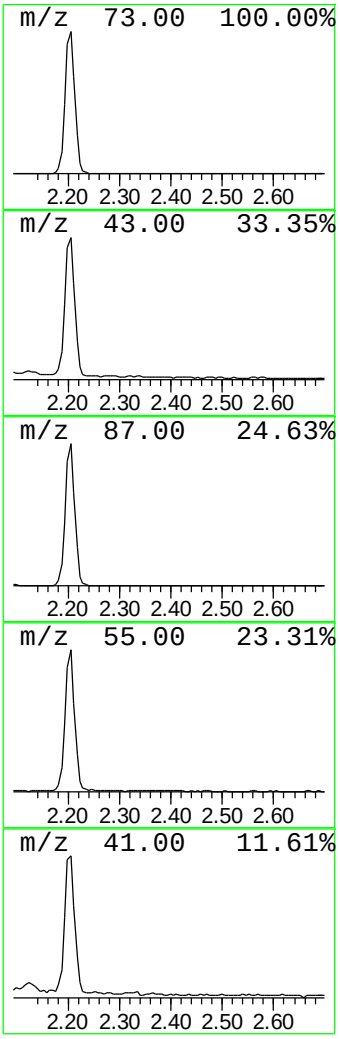
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.20	11.14 ng	685776	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	Borane, dimethoxy-	74	C2H7BO2	004542-61-4	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
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Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

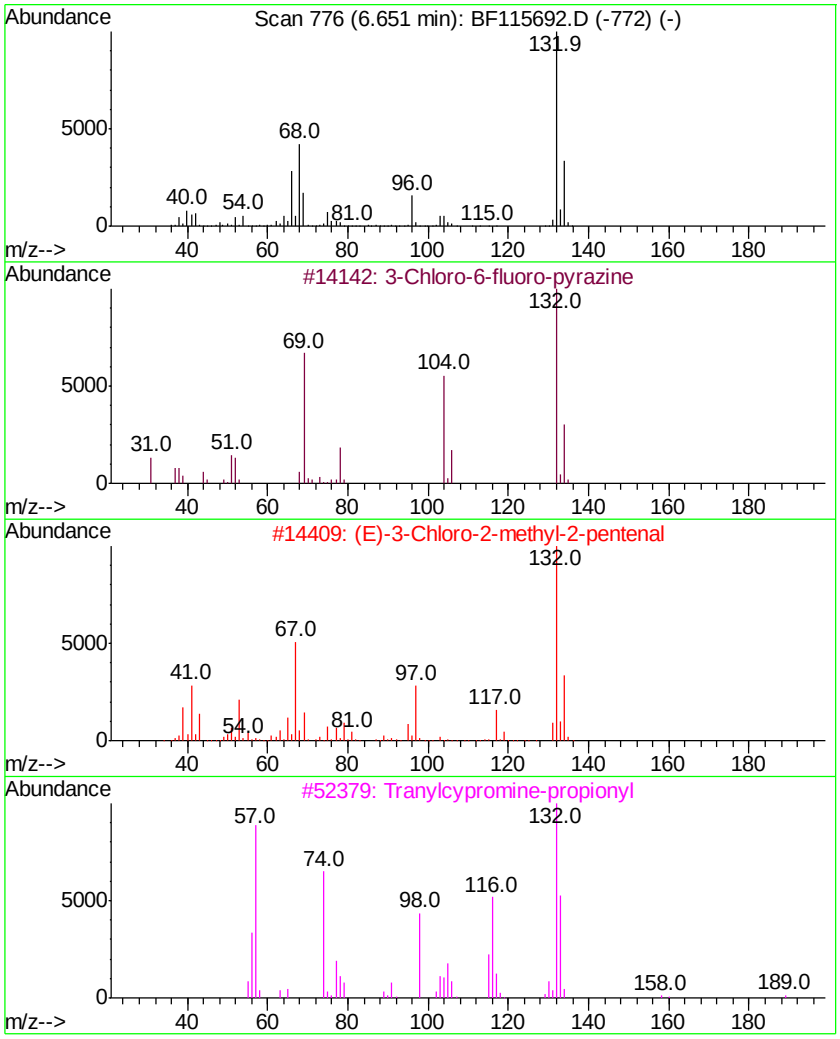
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

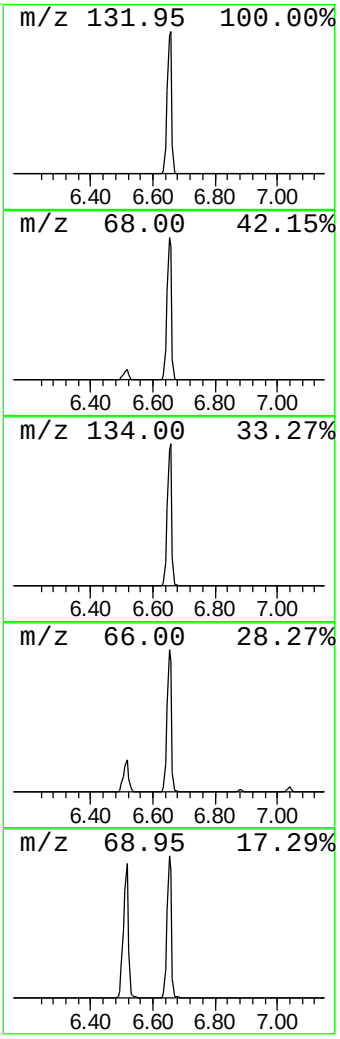
****

Peak Number 2 unknown6.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	63.67 ng	3918950	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

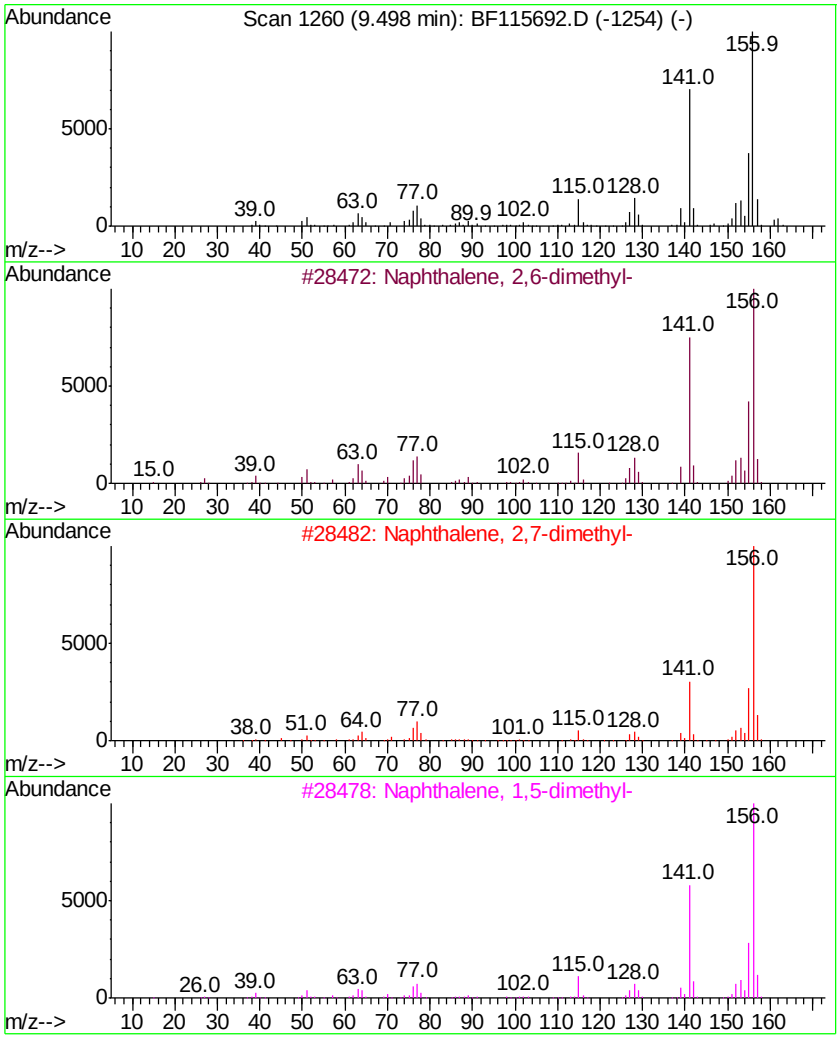
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

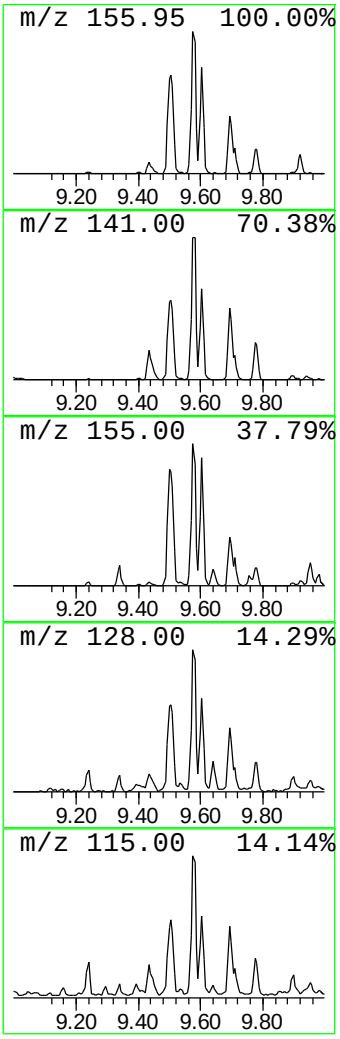
****

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.50	8.13 ng	646577	Acenaphthene-d10	9.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96





Library Search Compound Report

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Data File : BF115692.D
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Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

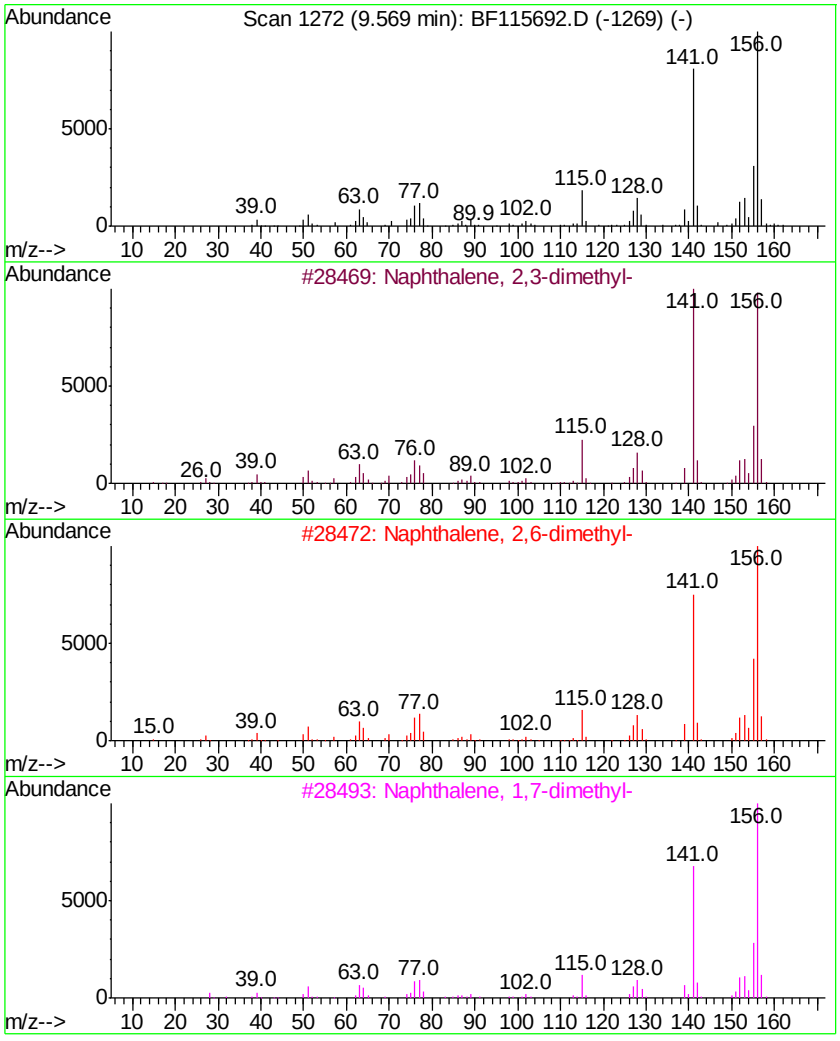
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

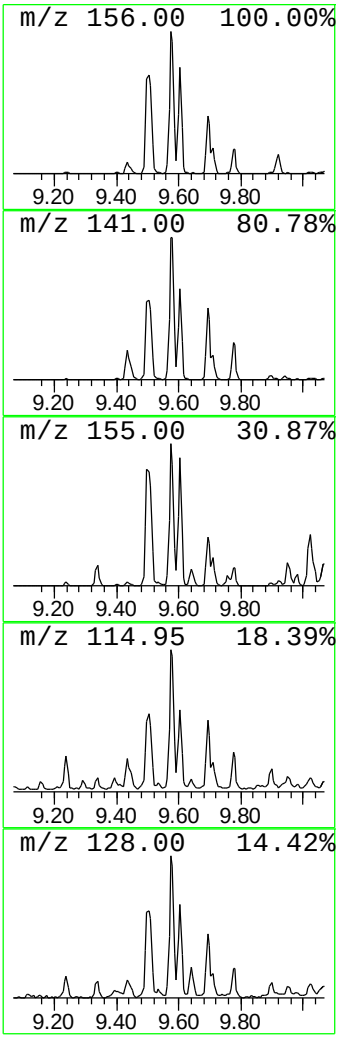
****

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	9.15 ng	727788	Acenaphthene-d10	9.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115692.D
Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

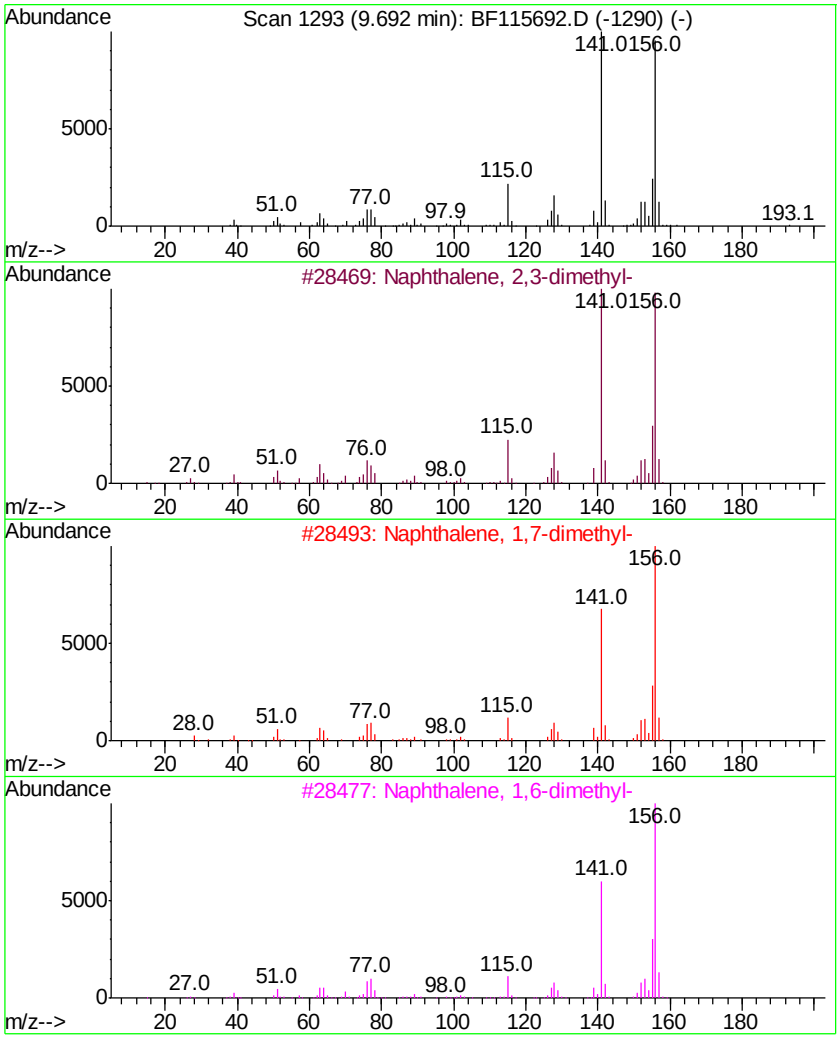
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

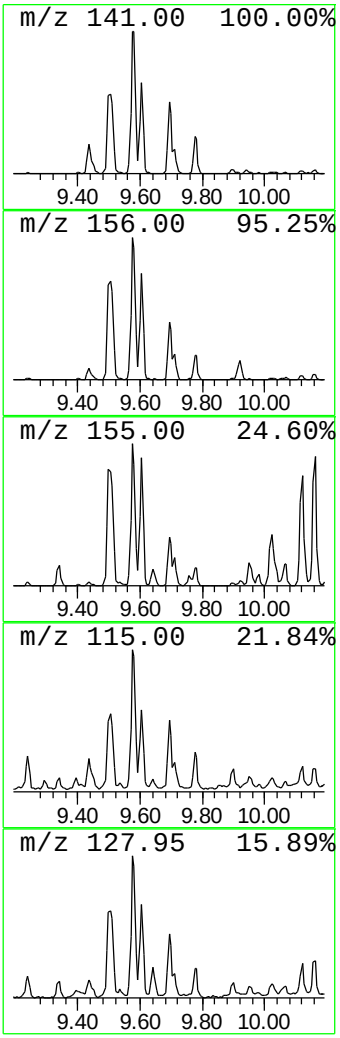
****

Peak Number 6 Naphthalene, 1,7-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.69	4.57 ng	363493	Acenaphthene-d10	9.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





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Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(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

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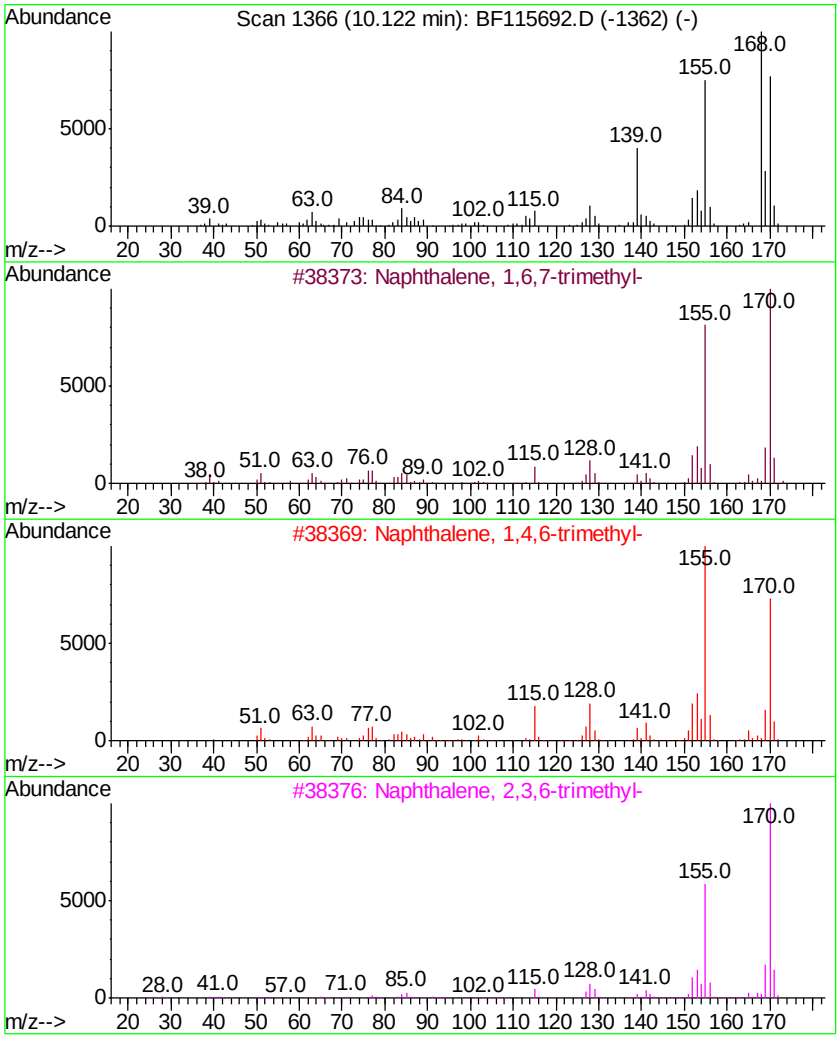
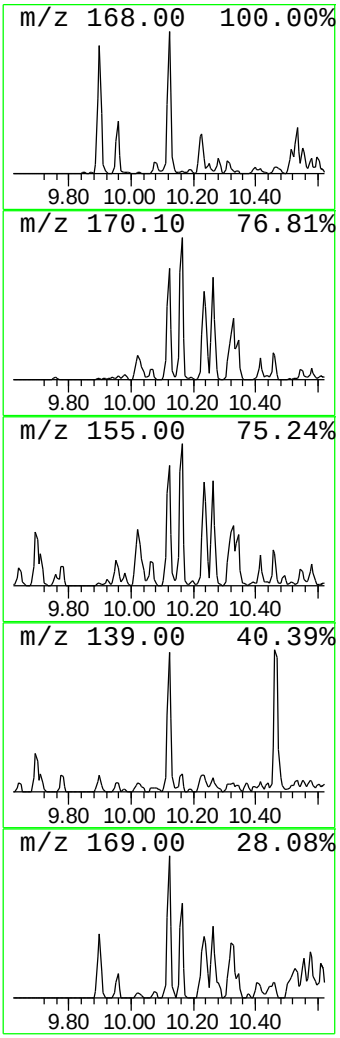
Peak Number 7 Naphthalene, 1,6,7-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.12	3.43 ng	272571	Acenaphthene-d10	9.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	92
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	90
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	78
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	53





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Instrument : BNA_F
ClientSampleId : AOC-7(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

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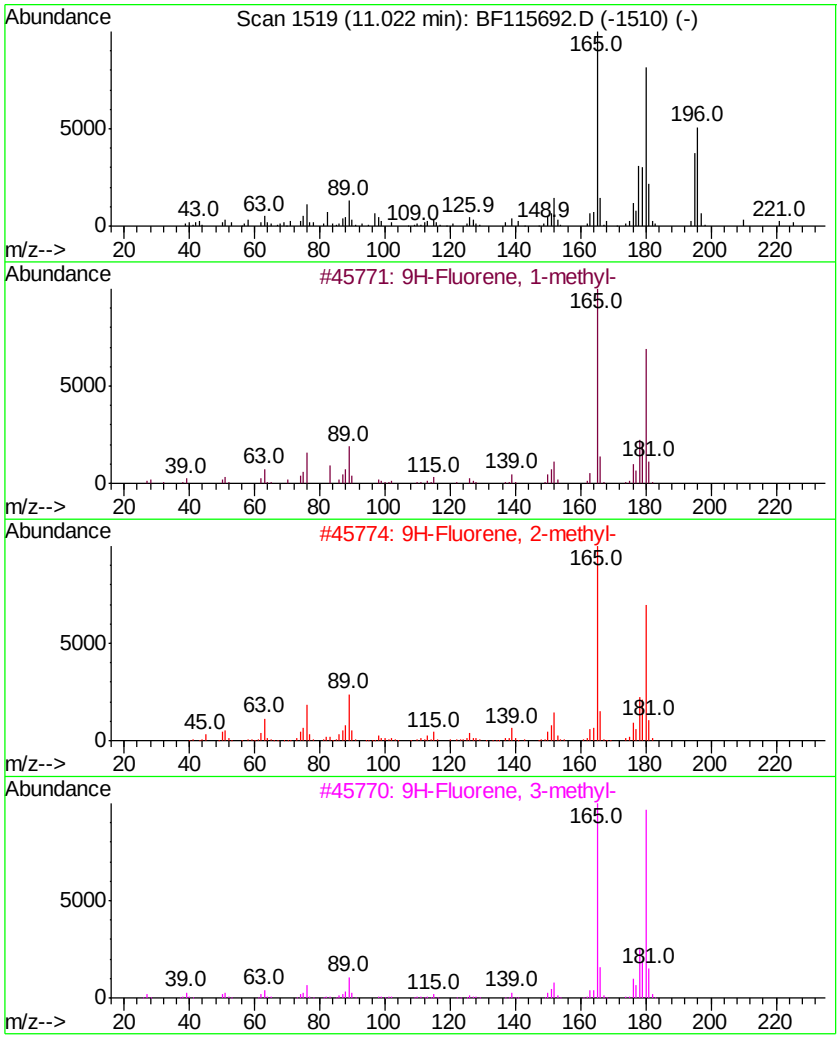
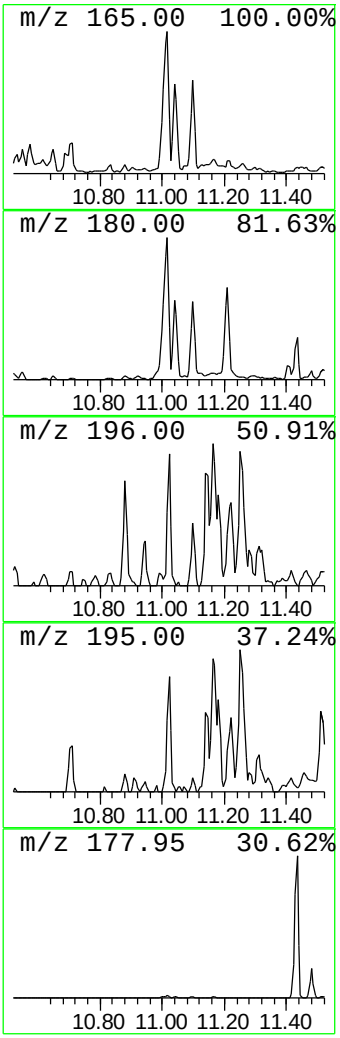
Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	6.19 ng	408385	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	91
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90





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ClientSampleId : AOC-7(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

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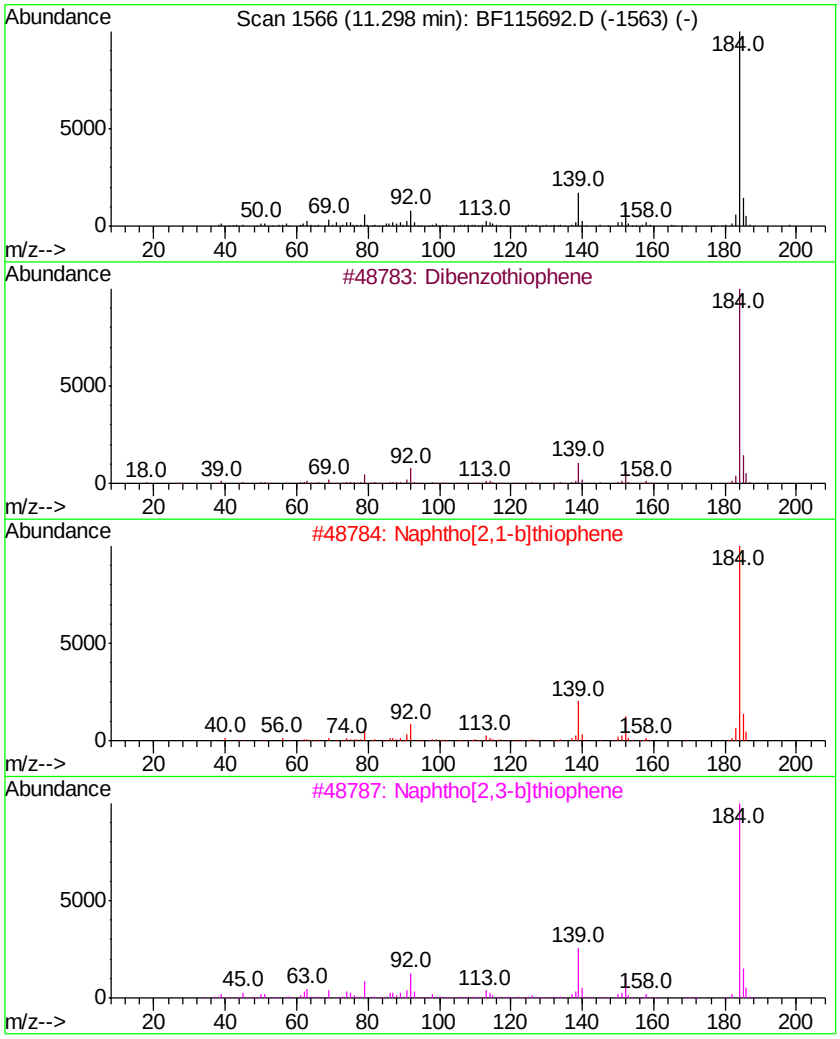
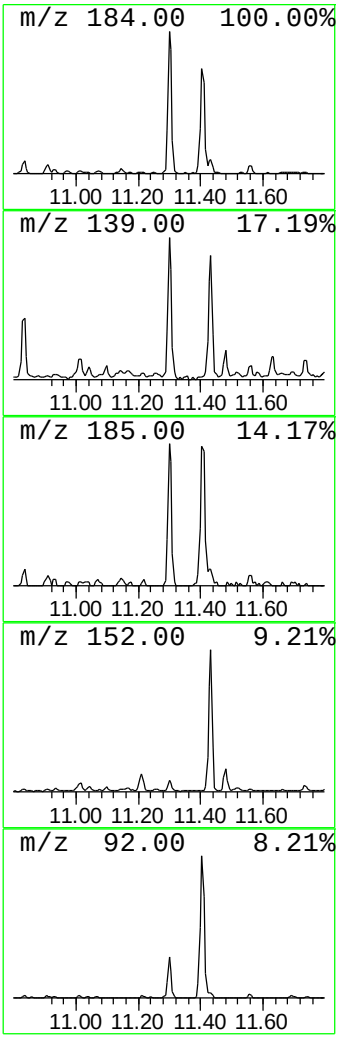
Peak Number 9 Naphtho[2,1-b]thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	4.02 ng	265041	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





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ALS Vial : 17 Sample Multiplier: 1

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ClientSampleId : AOC-7(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

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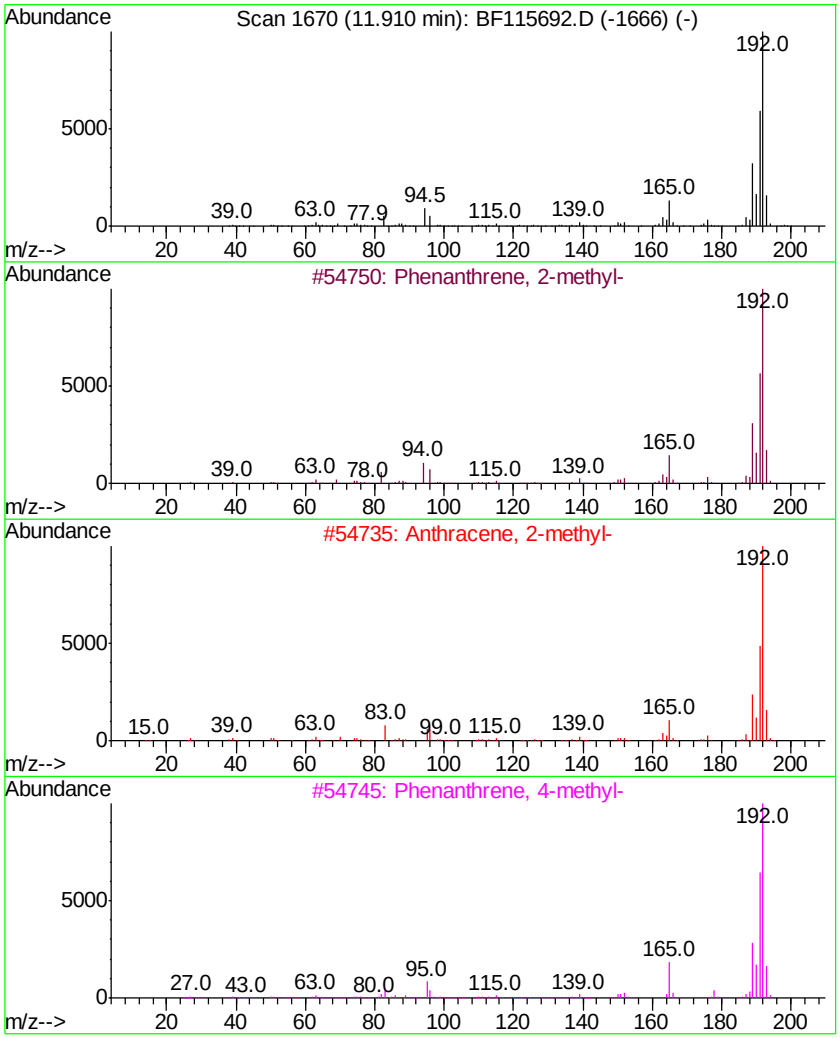
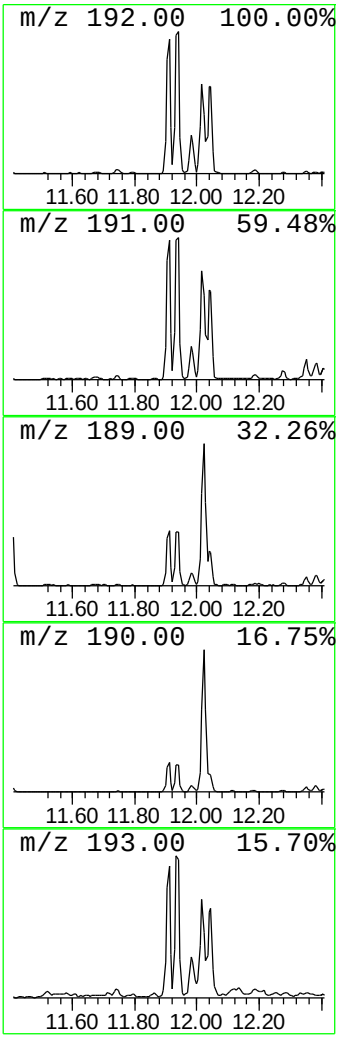
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	12.39 ng	817080	Phenanthrene-d10	11.40

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, 4-methyl-	192	C15H12	000832-64-4	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Misc :
ALS Vial : 17 Sample Multiplier: 1

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ClientSampleId : AOC-7(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

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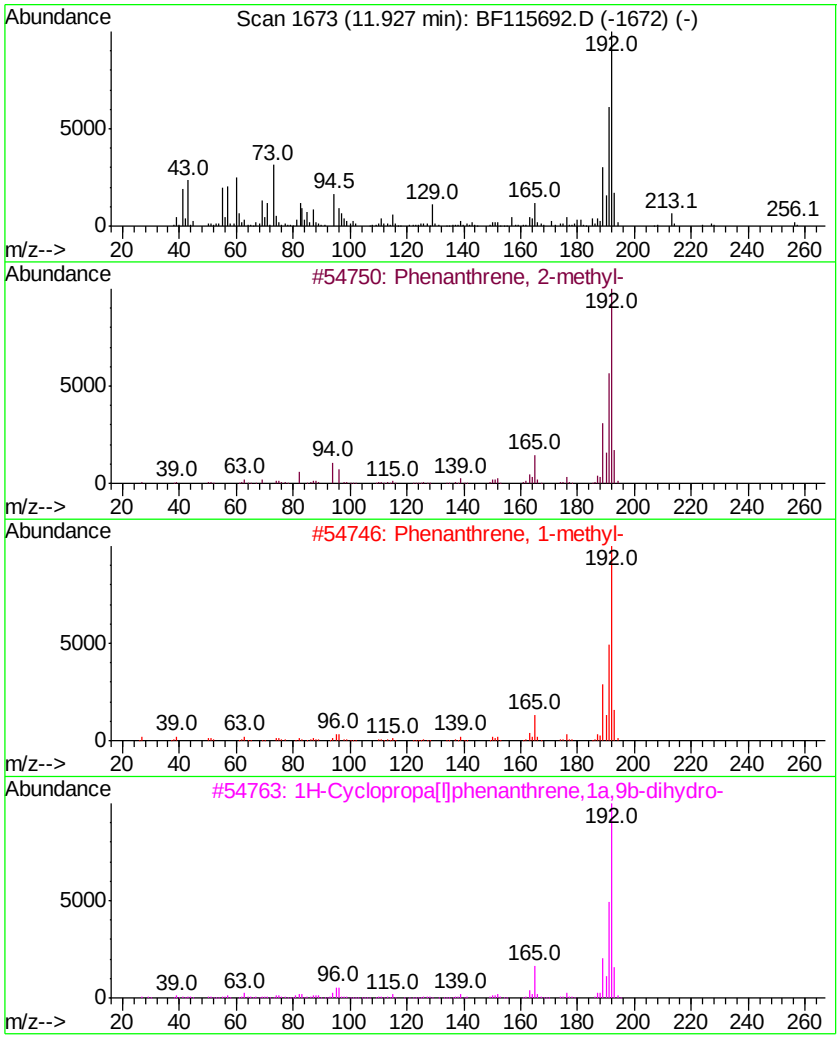
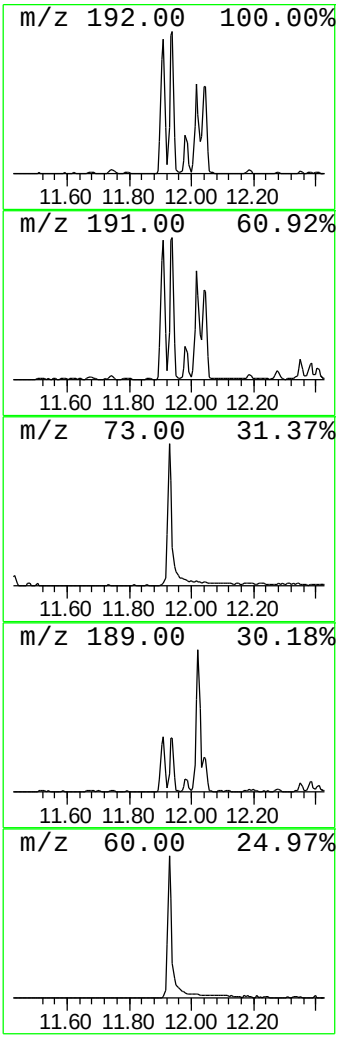
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	16.06 ng	1058900	Phenanthrene-d10	11.40

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94





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ClientSampleId : AOC-7(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

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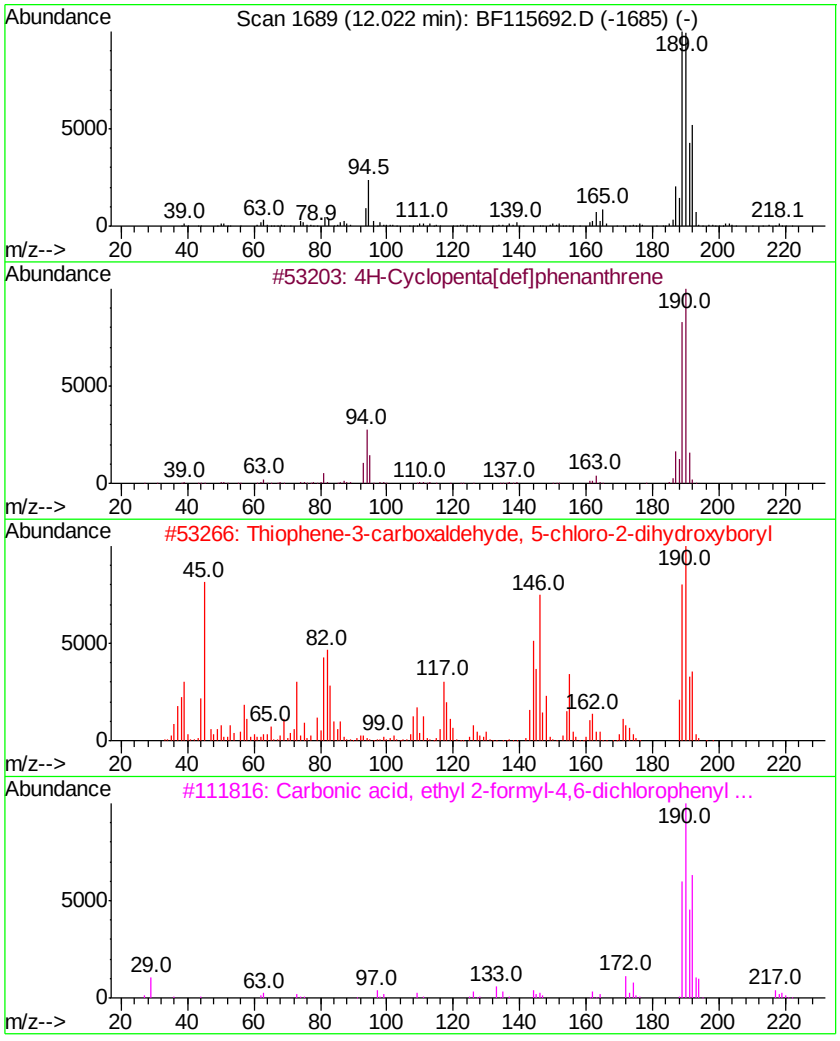
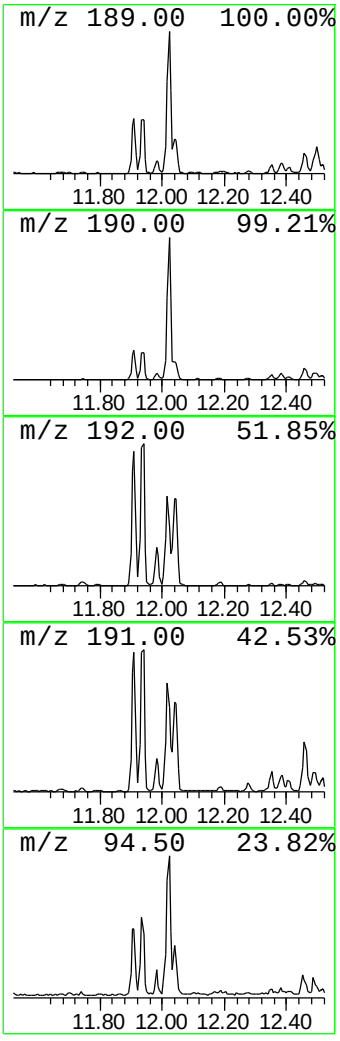
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	16.61 ng	1095500	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42





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ClientSampleId : AOC-7(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

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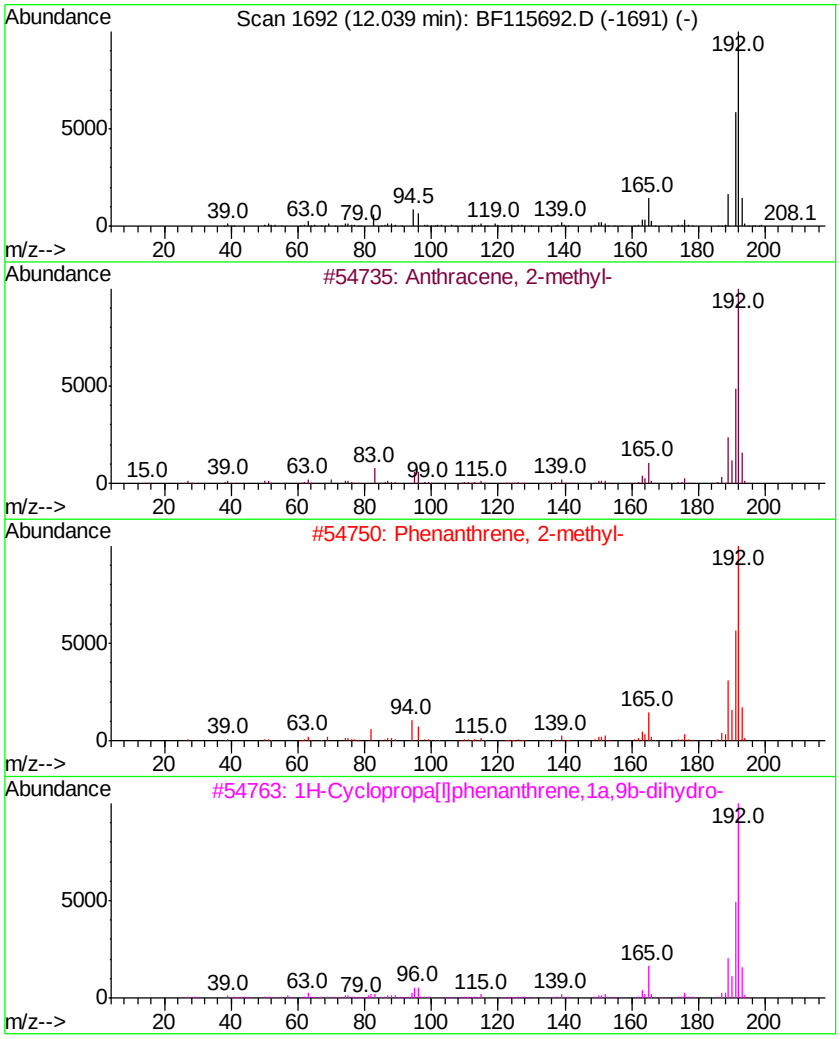
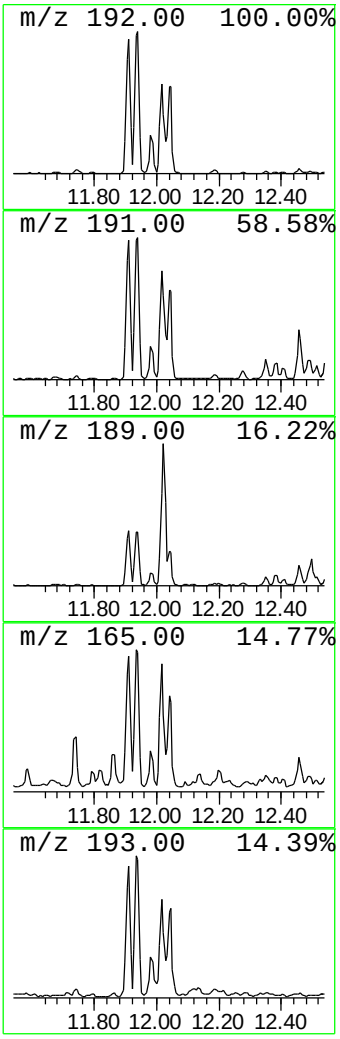
Peak Number 13 Anthracene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	6.44 ng	424689	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





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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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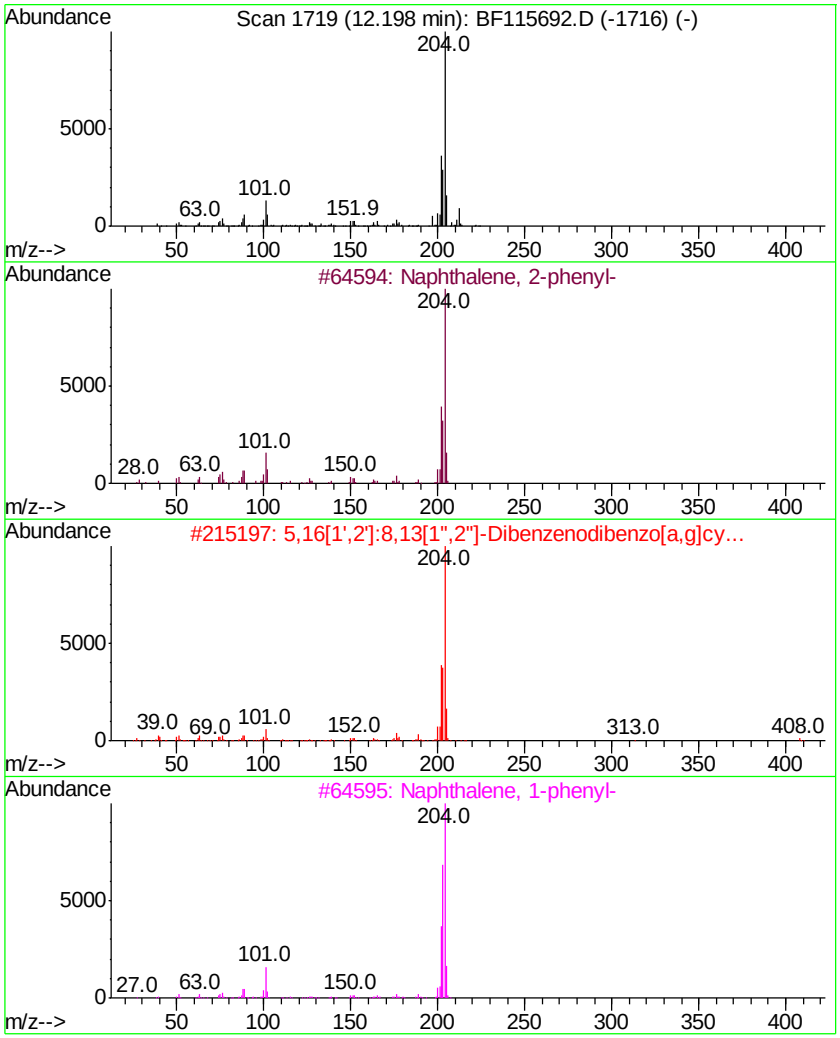
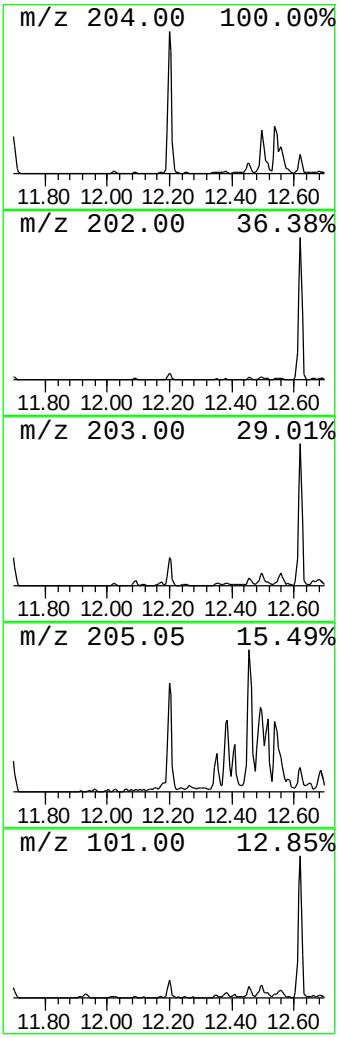
Peak Number 14 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	4.90 ng	323411	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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

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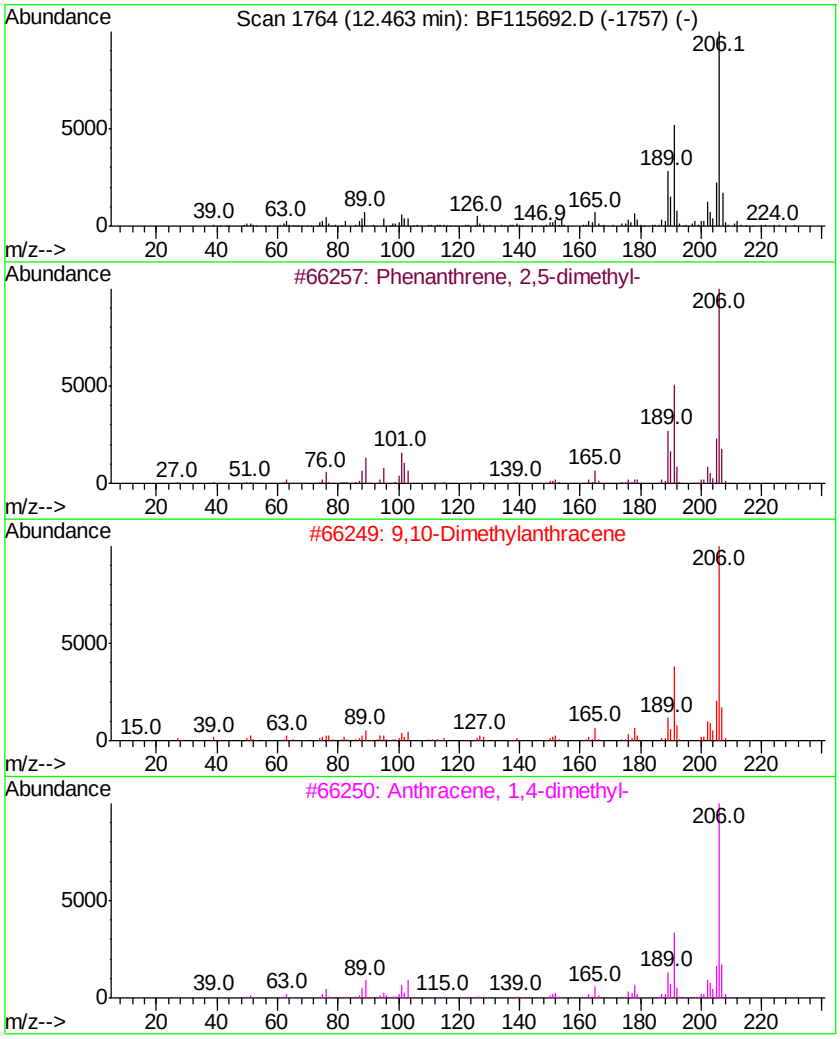
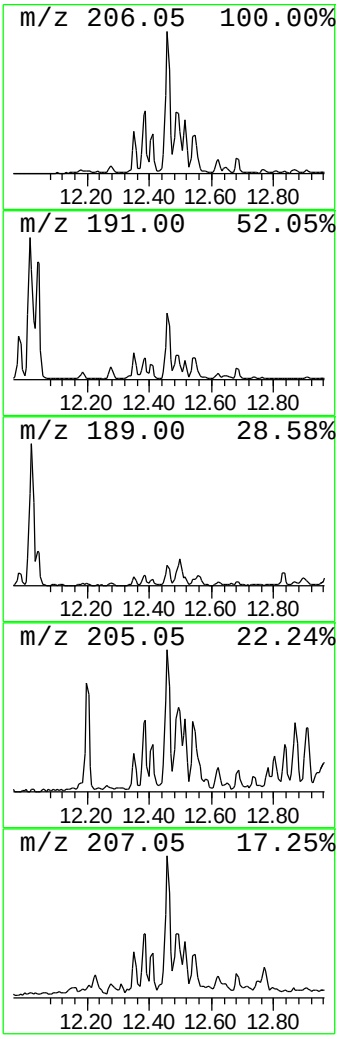
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	7.68 ng	506264	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93





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ClientSampleId : AOC-7(3)

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

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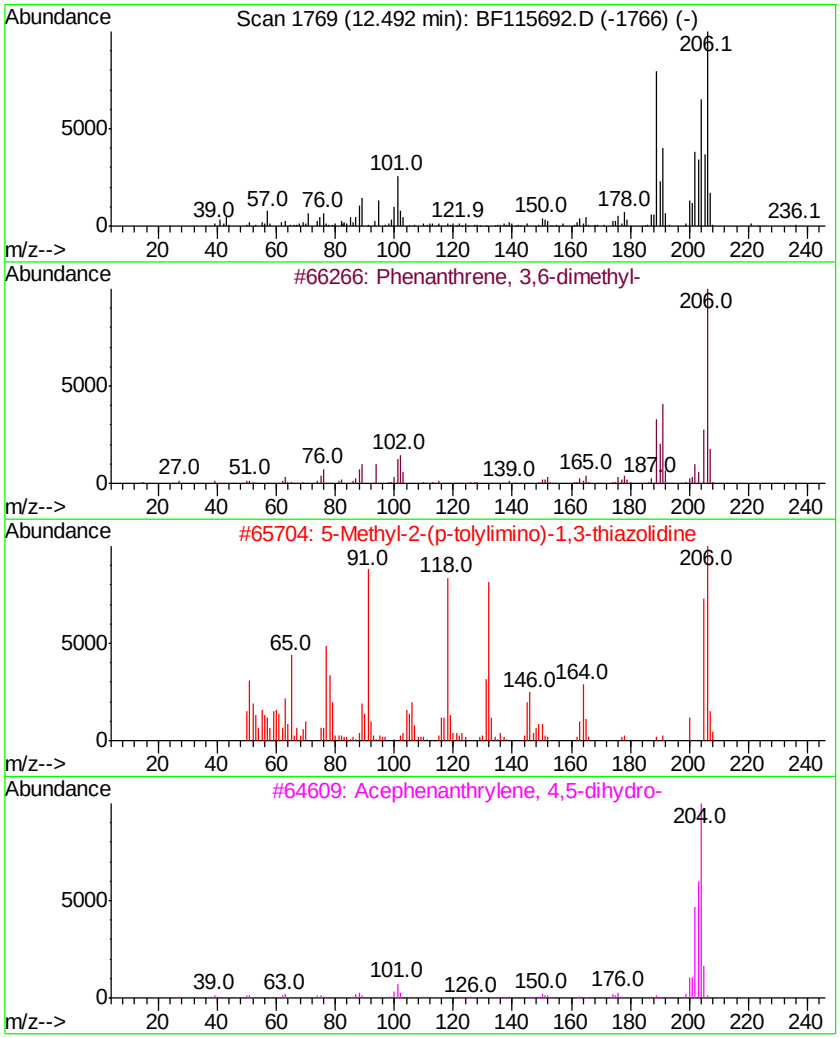
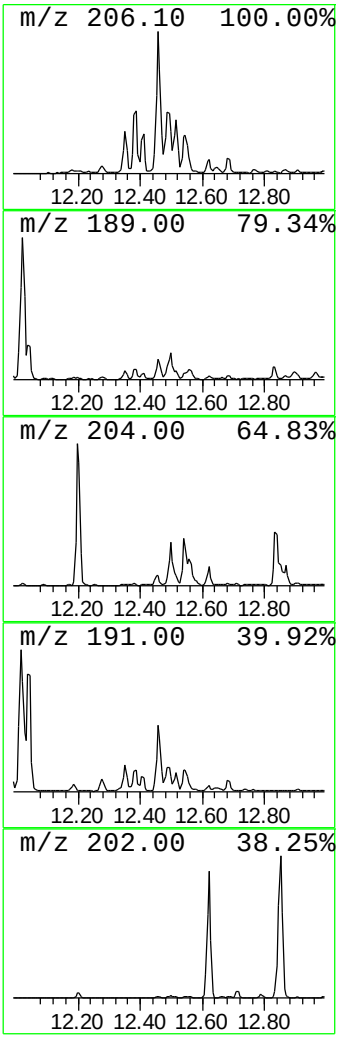
Peak Number 16 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	5.08 ng	334765	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	70
2	5-Methyl-2-(p-tolylimino)-1,3-th...	206	C11H14N2S	070446-87-6	60
3	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	59
4	3,5-Dichloro-4-hydroxybenzoic acid	206	C7H4Cl2O3	003336-41-2	46
5	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	44





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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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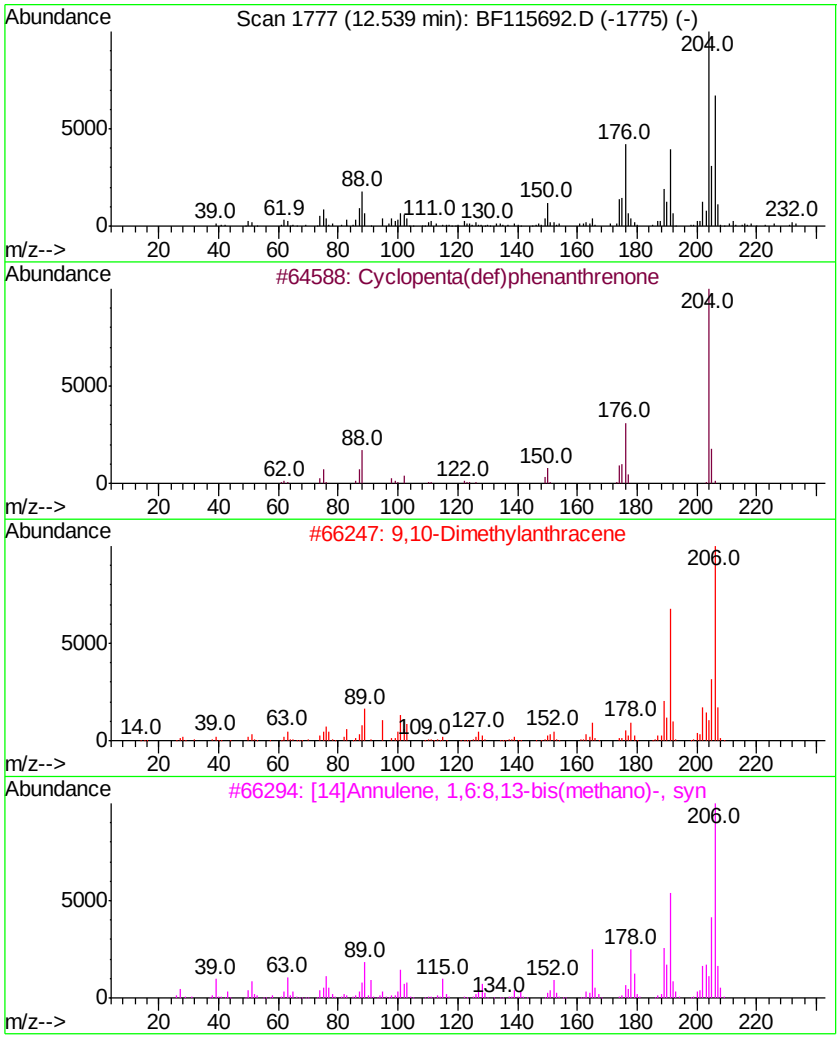
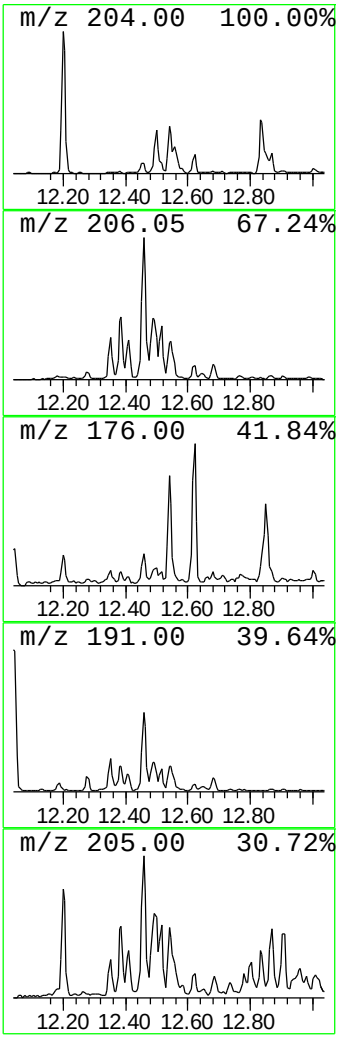
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	4.74 ng	312850	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	89
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	46
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	42
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	42





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115692.D
Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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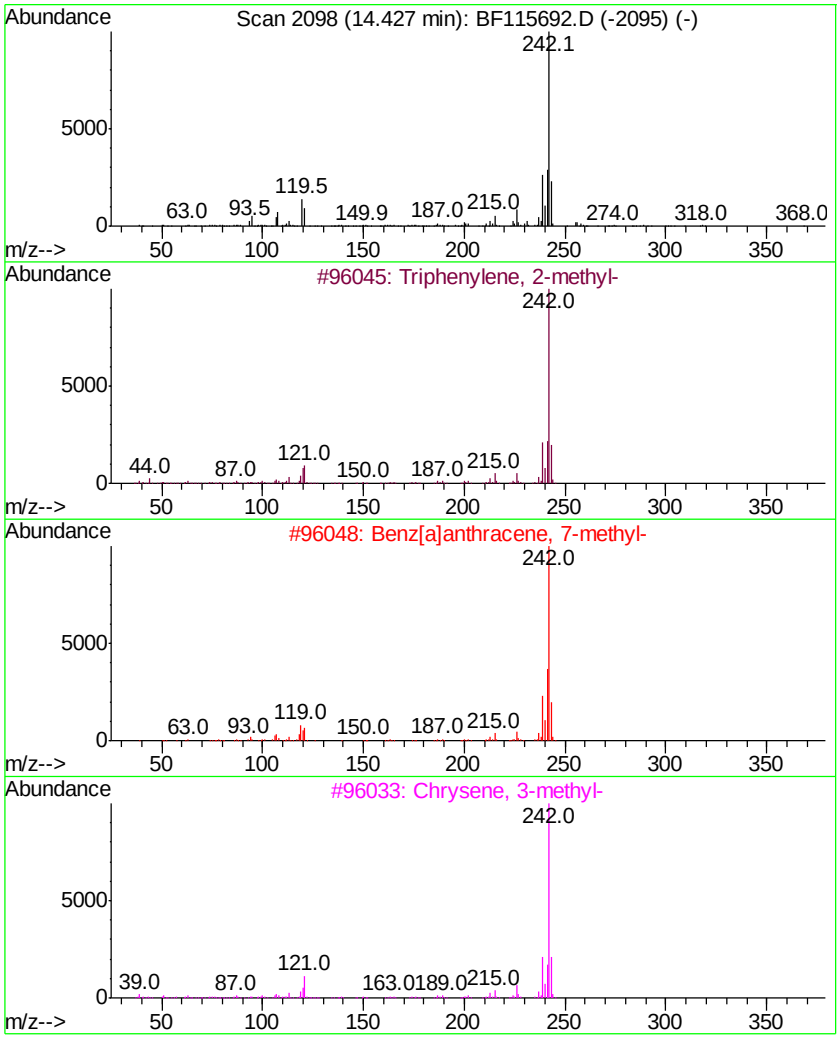
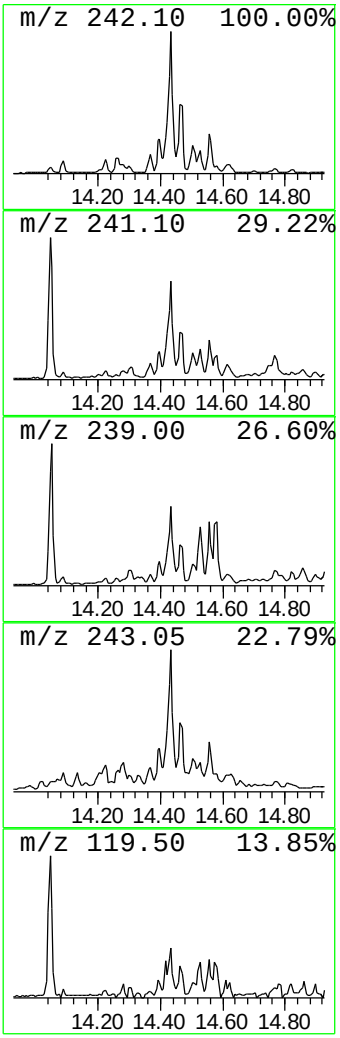
Peak Number 18 Triphenylene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	3.52 ng	533633	Chrysene-d12	14.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
3	Chrysene, 3-methyl-	242	C19H14	003351-31-3	94
4	Chrysene, 1-methyl-	242	C19H14	003351-28-8	93
5	2-Methylchrysene	242	C19H14	003351-32-4	93





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Data File : BF115692.D
Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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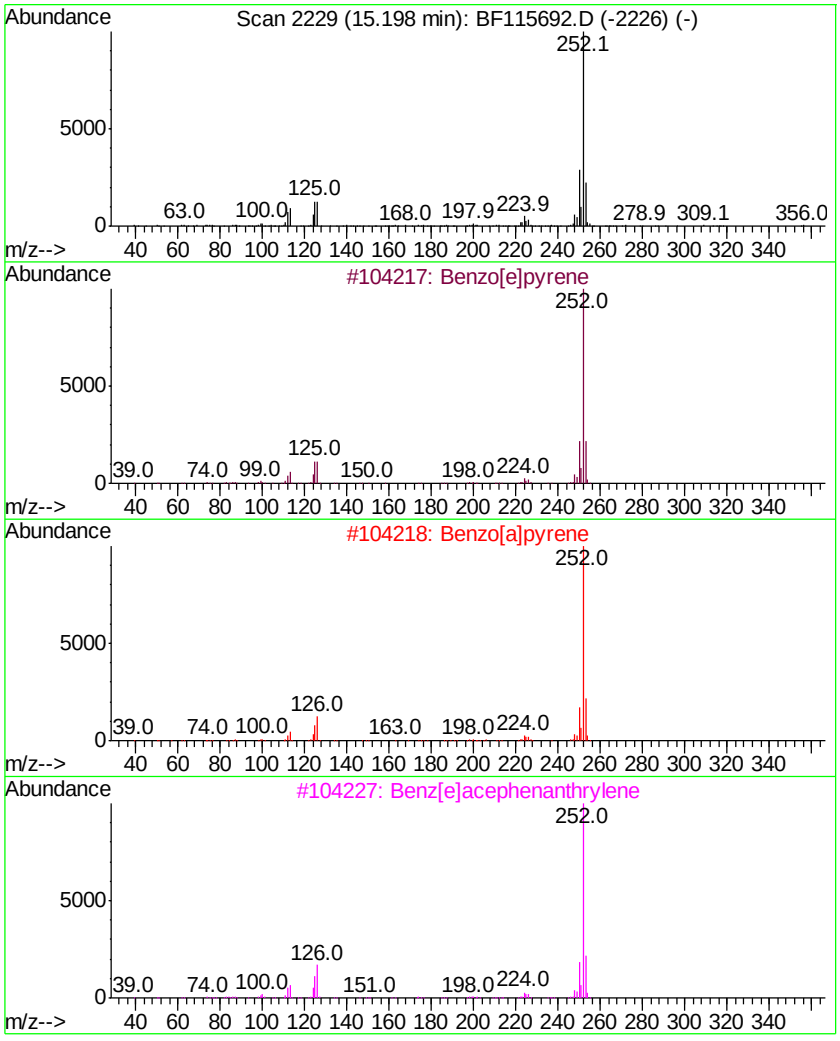
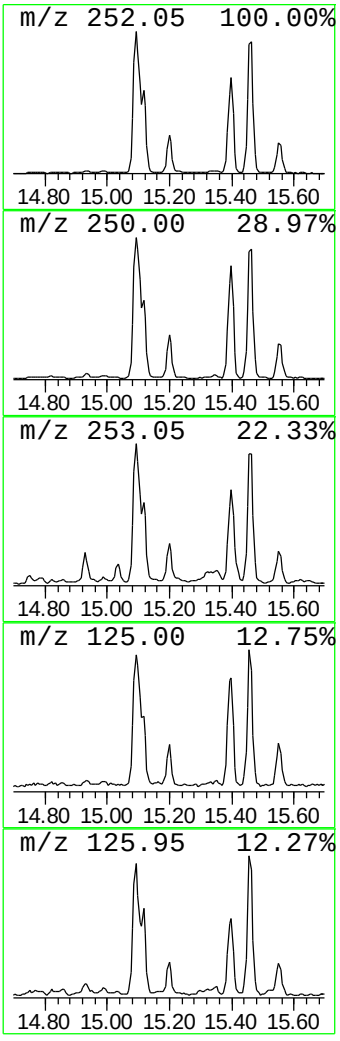
Peak Number 19 Benzo[e]pyrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	4.33 ng	183857	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Perylene	252	C20H12	000198-55-0	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\
Data File : BF115692.D
Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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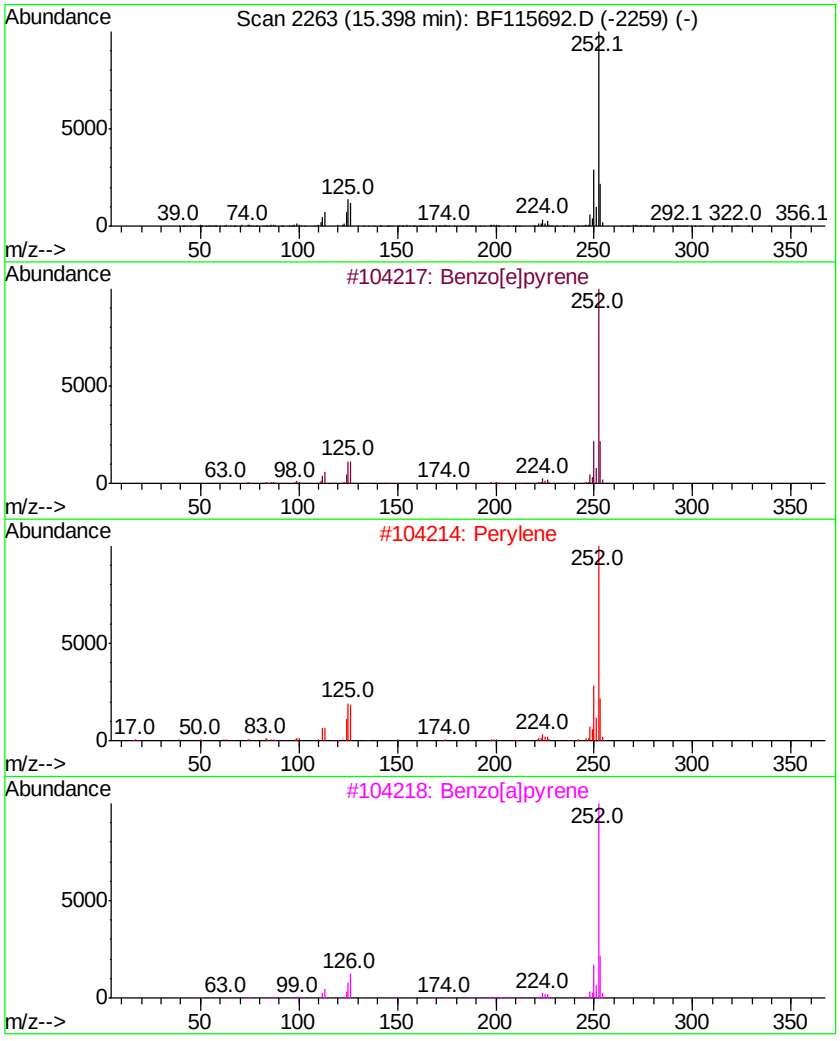
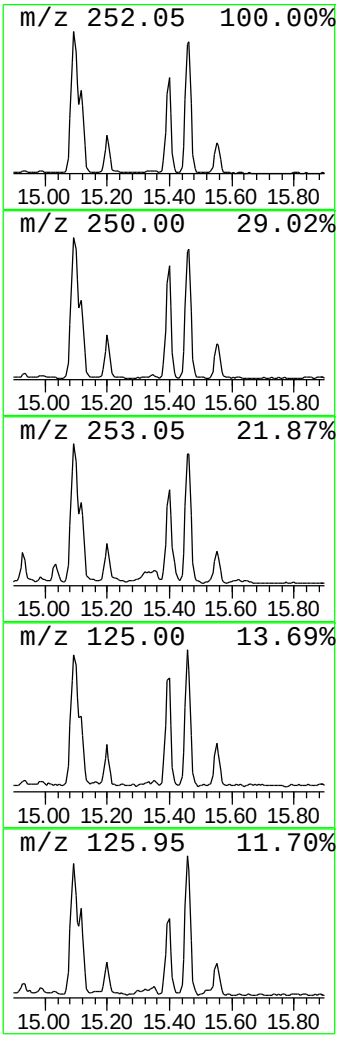
Peak Number 20 Perylene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.40	13.61 ng	577718	Perylene-d12	15.52

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	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071919\
Data File : BF115692.D
Acq On : 20 Jul 2019 00:35
Operator : HP/JU
Sample : K3887-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7(3)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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
Butane, 2-methoxy...	2.20	11.1	ng	685776	1	6.88	1230990	20.0
unknown6.65	6.65	63.7	ng	3918950	1	6.88	1230990	20.0
Naphthalene, 2,6-...	9.50	8.1	ng	646577	3	9.92	1590770	20.0
Naphthalene, 2,3-...	9.57	9.2	ng	727788	3	9.92	1590770	20.0
Naphthalene, 1,7-...	9.69	4.6	ng	363493	3	9.92	1590770	20.0
Naphthalene, 1,6,...	10.12	3.4	ng	272571	3	9.92	1590770	20.0
9H-Fluorene, 1-me...	11.02	6.2	ng	408385	4	11.40	1318770	20.0
Naphtho[2,1-b]thi...	11.30	4.0	ng	265041	4	11.40	1318770	20.0
Phenanthrene, 2-m...	11.91	12.4	ng	817080	4	11.40	1318770	20.0
Phenanthrene, 1-m...	11.93	16.1	ng	1058900	4	11.40	1318770	20.0
4H-Cyclopenta[def...	12.02	16.6	ng	1095500	4	11.40	1318770	20.0
Anthracene, 2-met...	12.04	6.4	ng	424689	4	11.40	1318770	20.0
5,16[1',2']:8,13[...	12.20	4.9	ng	323411	4	11.40	1318770	20.0
Phenanthrene, 2,5...	12.46	7.7	ng	506264	4	11.40	1318770	20.0
Phenanthrene, 3,6...	12.49	5.1	ng	334765	4	11.40	1318770	20.0
Cyclopenta(def)ph...	12.54	4.7	ng	312850	4	11.40	1318770	20.0
Triphenylene, 2-m...	14.43	3.5	ng	533633	5	14.05	3036210	20.0
Benzo[e]pyrene	15.20	4.3	ng	183857	6	15.52	849168	20.0
Perylene	15.40	13.6	ng	577718	6	15.52	849168	20.0