LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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-BF083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.457	570	573	583	rBV	204745	211464	6.73%	0.678%
2	6.469	742	745	761	rVB	236600	248079	7.89%	0.796%
3	6.616	766	770	777	rBV	260671	250538	7.97%	0.804%
4	6.845	805	809	818	rBV	529948	447156	14.22%	1.435%
5	7.004	832	836	839	rBV	207237	196359	6.25%	0.630%
6	7.398	895	903	910	rBV	131386	161291	5.13%	0.518%
7	8.128	1022	1027	1029	rBV	740046	630939	20.07%	2.024%
8	8.151	1029	1031	1034	rVB	293637	232468	7.39%	0.746%
9	8.722	1125	1128	1132	rBV3	55986	53018	1.69%	0.170%
10	8.839	1145	1148	1153	rVB	263418	214072	6.81%	0.687%
11	8.939	1161	1165	1175	rBV	234457	229453	7.30%	0.736%
12	9.198	1206	1209	1214	rVB	383493	305542	9.72%	0.980%
13	9.286	1219	1224	1225	rBV	89799	77700	2.47%	0.249%
14	9.469	1250	1255	1259	rBV	102578	144281	4.59%	0.463%
15	9.539	1261	1267	1270	rBV	172740	176326	5.61%	0.566%
16	9.569	1270	1272	1274	rVB	98472	73634	2.34%	0.236%
17	9.657	1285	1287	1293	rVB2	86509	93769	2.98%	0.301%
18	9.739	1299	1301	1306	rVB	114691	101811	3.24%	0.327%
19	9.816	1311	1314	1318	rVB	103937	88833	2.83%	0.285%
20	9.881	1322	1325	1328	rVV	839026	675767	21.50%	2.168%
21	9.916	1328	1331	1334	rVB	341912	306500	9.75%	0.983%
22	10.039	1348	1352	1356	rBV5	32254	52418	1.67%	0.168%
23	10.086	1356	1360	1364	rVV	360127	326964	10.40%	1.049%
24	10.122	1364	1366	1373	rVB3	51820	70607	2.25%	0.227%
25	10.198	1376	1379	1382	rBV2	47337	51705	1.64%	0.166%
26	10.310	1396	1398	1401	rVB2	132594	114804	3.65%	0.368%
27	10.428	1414	1418	1423	rBV	692512	589528	18.75%	1.892%
28	10.586	1442	1445	1448	rVB	101725	94049	2.99%	0.302%
29	10.669	1454	1459	1463	rBV	215662	257086	8.18%	0.825%
30	10.786	1475	1479	1486	rVB2	154689	201413	6.41%	0.646%
31	10.975	1506	1511	1514	rBV2	121294	136464	4.34%	0.438%
32	11.004	1514	1516	1519	rVV	63169	61877	1.97%	0.199%
33	11.057	1521	1525	1529	rVV3	53384	58043	1.85%	0.186%
34	11.104	1529	1533	1535	rVV3	45085	57167	1.82%	0.183%

LSC Area Percent Report

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Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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-BF083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.128	1535	1537	1542	rVV	48317	54792	1.74%	0.176%
36	11.233	1548	1555	1557	rBV2	134969	163875	5.21%	0.526%
37	11.263	1557	1560	1566	rVB	235204	224221	7.13%	0.719%
38	11.369	1574	1578	1579	rBV	594935	562675	17.90%	1.805%
39	11.392	1579	1582	1585	rVV	2334919	2177001	69.25%	6.985%
40	11.439	1587	1590	1593	rVV	672860	596308	18.97%	1.913%
41	11.475	1593	1596	1599	rVB2	59352	59362	1.89%	0.190%
42	11.592	1610	1616	1619	rBV	214471	207579	6.60%	0.666%
43	11.657	1624	1627	1629	rBV	172464	137124	4.36%	0.440%
44	11.698	1632	1634	1639	rVB4	57206	62194	1.98%	0.200%
45	11.757	1640	1644	1647	rBV	1018505	790711	25.15%	2.537%
46	11.869	1657	1663	1665	rBV	253633	252287	8.03%	0.809%
47	11.892	1665	1667	1671	rVV	342362	329198	10.47%	1.056%
48	11.939	1672	1675	1678	rVV	123810	115992	3.69%	0.372%
49	11.980	1678	1682	1684	rVV	470992	464677	14.78%	1.491%
50	11.998	1684	1685	1690	rVB	157537	123157	3.92%	0.395%
51	12.063	1694	1696	1700	rVB2	107166	95308	3.03%	0.306%
52	12.157	1710	1712	1715	rBV	162815	144926	4.61%	0.465%
53	12.186	1715	1717	1720	rVB2	54349	47969	1.53%	0.154%
54	12.345	1741	1744	1746	rBV2	46063	48219	1.53%	0.155%
55	12.416	1752	1756	1757	rBV	108588	105423	3.35%	0.338%
56	12.445	1757	1761	1762	rVV	2284604	2027149	64.48%	6.504%
57	12.463	1762	1764	1770	rVB	3332712	3143749	100.00%	10.087%
58	12.545	1775	1778	1780	rVV	358634	292356	9.30%	0.938%
59	12.580	1780	1784	1789	rVV	1845481	1853862	58.97%	5.948%
60	12.639	1792	1794	1797	rVB	52231	51857	1.65%	0.166%
61	12.727	1802	1809	1813	rBV2	62808	94483	3.01%	0.303%
62	12.810	1815	1823	1828	rBV2	1553379	1778761	56.58%	5.707%
63	12.857	1828	1831	1835	rVB2	77381	94063	2.99%	0.302%
64	12.927	1837	1843	1844	rBV	110409	134240	4.27%	0.431%
65	12.945	1844	1846	1848	rVB	216134	164955	5.25%	0.529%
66	13.027	1854	1860	1862	rBV3	103858	168153	5.35%	0.540%
67	13.051	1862	1864	1867	rVB	73685	57295	1.82%	0.184%
68	13.110	1867	1874	1875	rBV4	113099	154515	4.91%	0.496%
69	13.133	1875	1878	1881	rVV	319511	293965	9.35%	0.943%
70	13.198	1882	1889	1892	rVV	287638	338385	10.76%	1.086%
71	13.239	1892	1896	1898	rVV2	147131	168046	5.35%	0.539%

LSC Area Percent Report

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Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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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Peak separation: 5

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

72	13.269	1898	1901	1903	rVB2	79170	78433	2.49%	0.252%
73	13.327	1909	1911	1914	rVB	65166	54792	1.74%	0.176%
74	13.357	1914	1916	1920	rBV2	76014	82648	2.63%	0.265%
75	13.516	1939	1943	1945	rBV5	55228	66835	2.13%	0.214%
76	13.616	1956	1960	1961	rBV	47632	47832	1.52%	0.153%
77	13.639	1961	1964	1968	rVB	78437	98342	3.13%	0.316%
78	13.751	1979	1983	1985	rBV2	125181	136252	4.33%	0.437%
79	13.780	1985	1988	1990	rVV	123457	122260	3.89%	0.392%
80	13.804	1990	1992	1996	rVV2	109655	142354	4.53%	0.457%
81	13.845	1996	1999	2004	rVB2	130818	131045	4.17%	0.420%
82	13.933	2012	2014	2018	rVB3	71414	66180	2.11%	0.212%
83	13.998	2018	2025	2028	rBV3	977371	1419179	45.14%	4.553%
84	14.027	2028	2030	2038	rVB	699941	644094	20.49%	2.067%
85	14.110	2041	2044	2047	rVV	120462	117407	3.73%	0.377%
86	14.145	2047	2050	2051	rVV	67568	64944	2.07%	0.208%
87	14.186	2055	2057	2060	rVV2	70526	66202	2.11%	0.212%
88	14.221	2060	2063	2067	rVV2	103016	117581	3.74%	0.377%
89	14.386	2088	2091	2094	rVB	136644	127457	4.05%	0.409%
90	14.421	2094	2097	2100	rVB2	68504	65318	2.08%	0.210%
91	14.468	2101	2105	2106	rBV2	59229	73727	2.35%	0.237%
92	14.510	2110	2112	2114	rVV	66250	59805	1.90%	0.192%
93	14.533	2114	2116	2118	rVB	81131	62350	1.98%	0.200%
94	15.039	2197	2202	2205	rBV	488024	782369	24.89%	2.510%
95	15.145	2217	2220	2224	rVB	111655	109113	3.47%	0.350%
96	15.339	2249	2253	2259	rVB	270976	368257	11.71%	1.182%
97	15.404	2259	2264	2269	rVB	433461	545854	17.36%	1.751%
98	15.463	2270	2274	2278	rBV	326909	480930	15.30%	1.543%
99	16.921	2517	2522	2530	rVB2	152600	290824	9.25%	0.933%
100	17.362	2592	2597	2604	rVB	85505	174581	5.55%	0.560%

Sum of corrected areas: 31166922

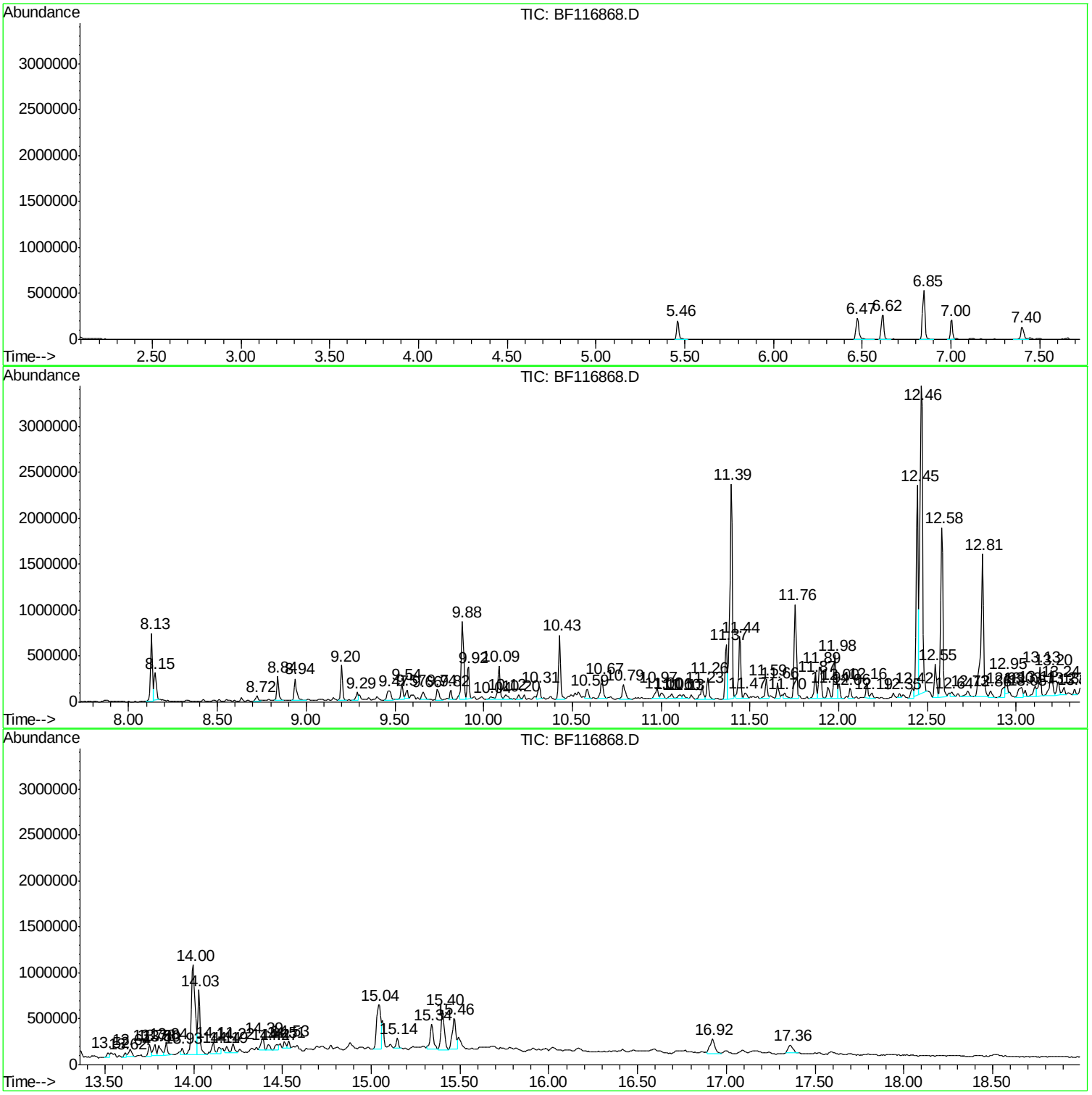
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
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ClientSampleId : HD-01-090519

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

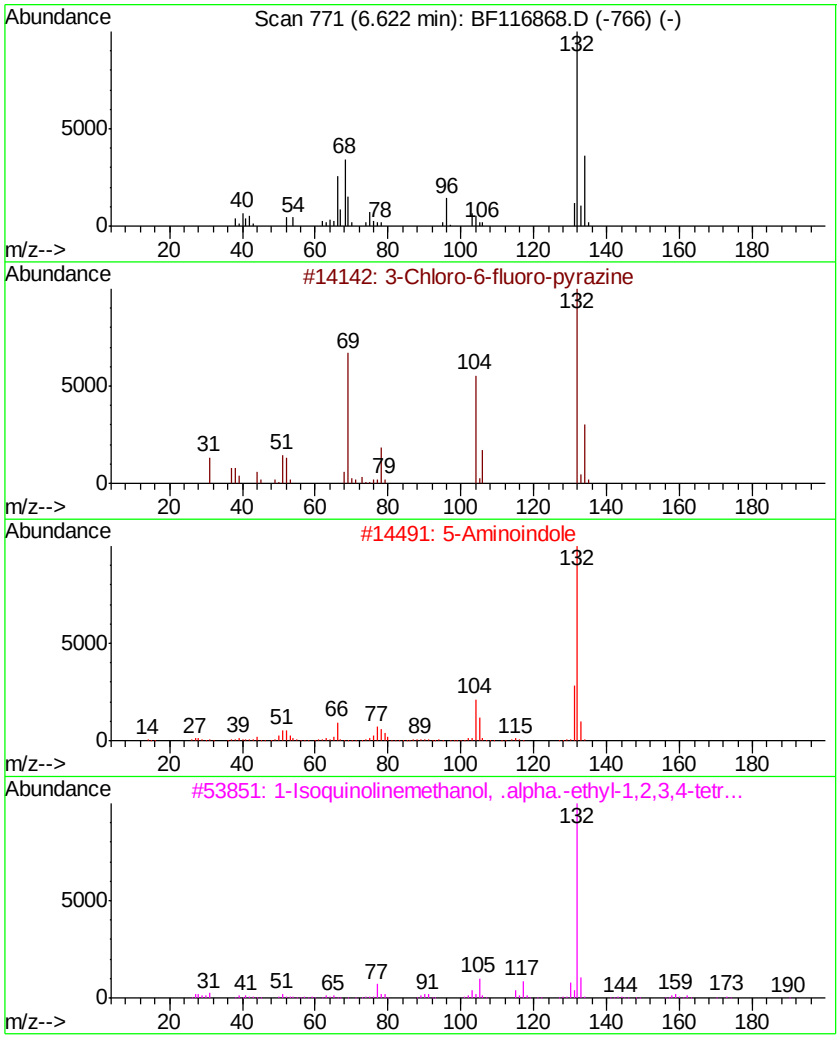
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

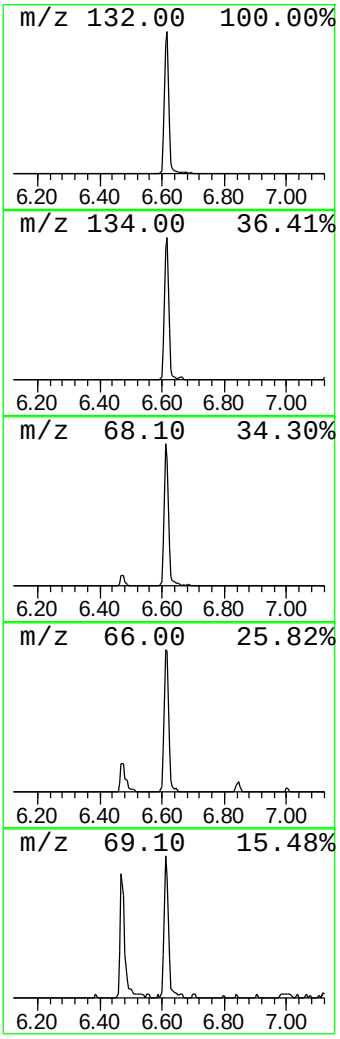
****

Peak Number 1 unknown6.62 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	11.21 ng	250538	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2	5-Aminoindole	132	C8H8N2	005192-03-0	16
3	1-Isoquinolinemethanol, .alpha.-...	191	C12H17NO	114608-92-3	12
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
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Acq On : 6 Sep 2019 19:09
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Misc :
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Instrument : BNA_F
ClientSampleId : HD-01-090519

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

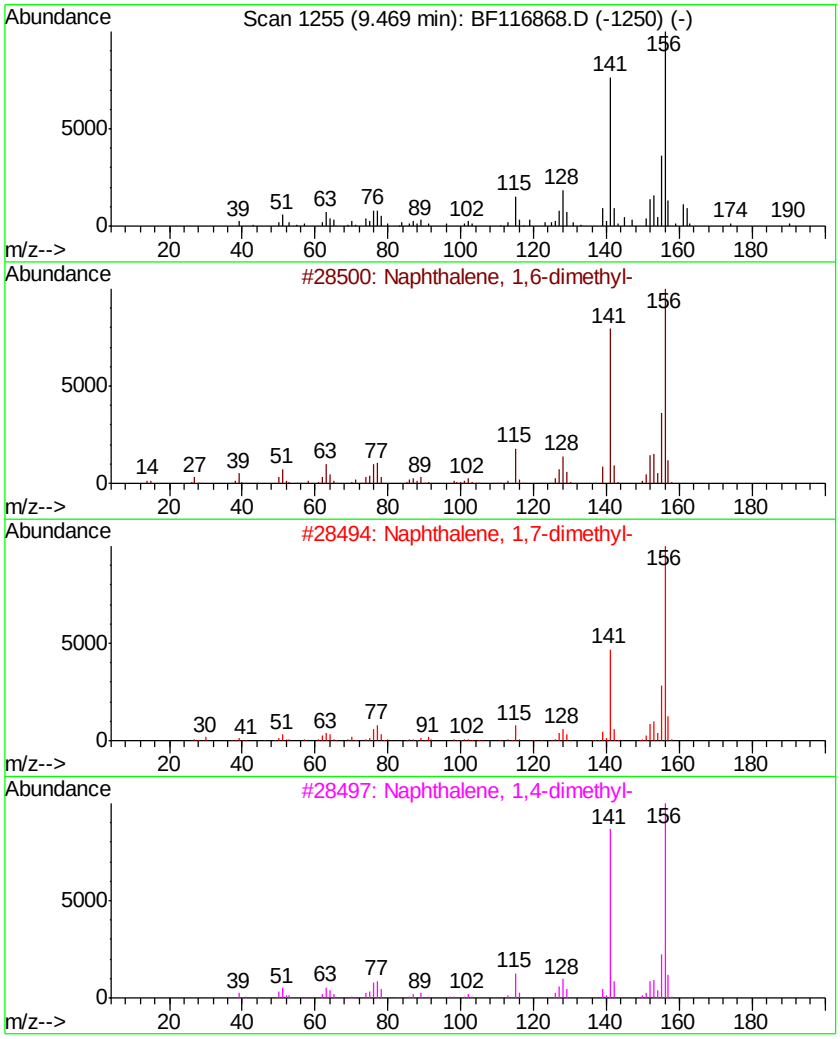
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

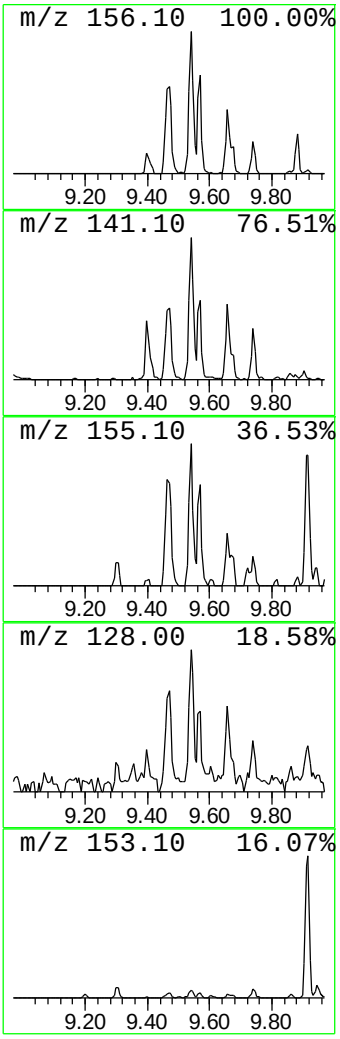
****

Peak Number 3 Naphthalene, 1,6-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.47	4.27 ng	144281	Acenaphthene-d10	9.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95





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Instrument : BNA_F
ClientSampleId : HD-01-090519

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

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

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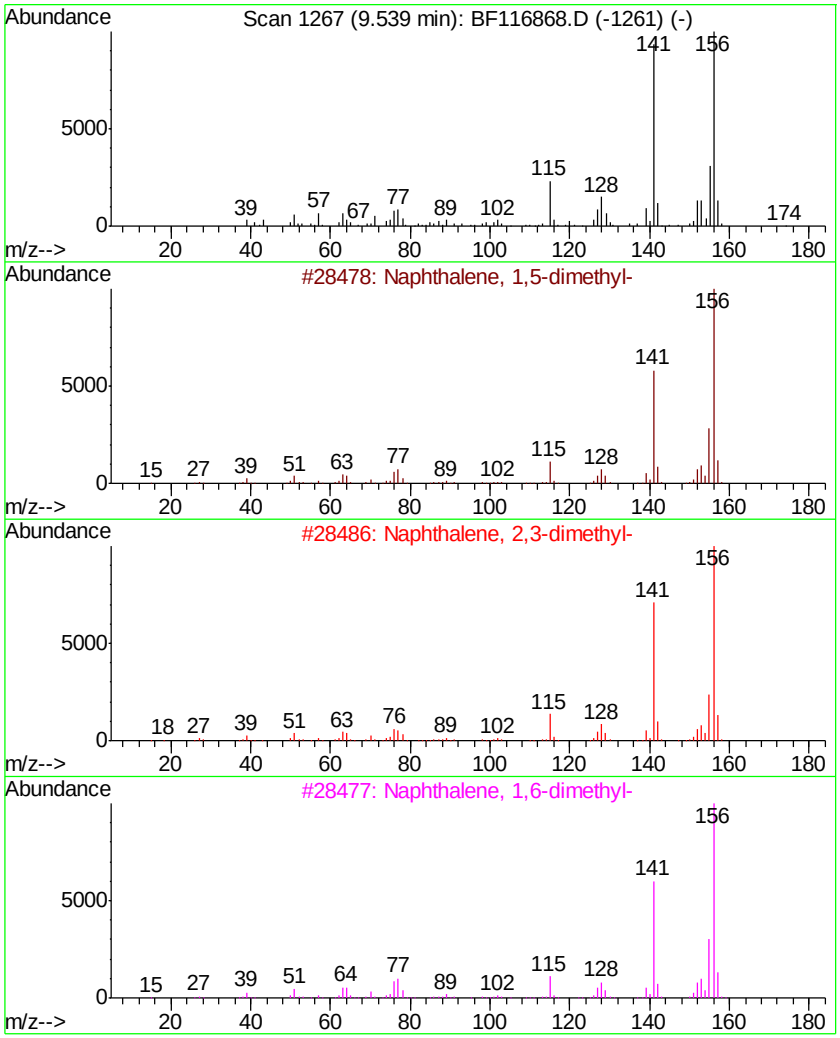
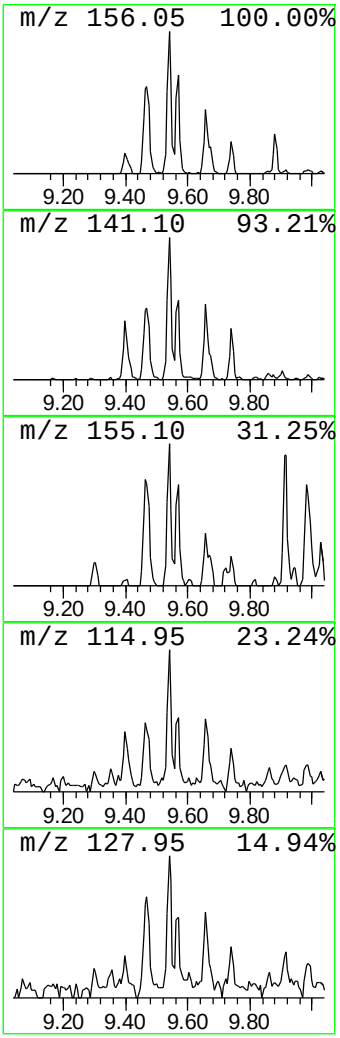
Peak Number 4 Naphthalene, 1,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	5.22 ng	176326	Acenaphthene-d10	9.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96





Library Search Compound Report

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Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
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Misc :
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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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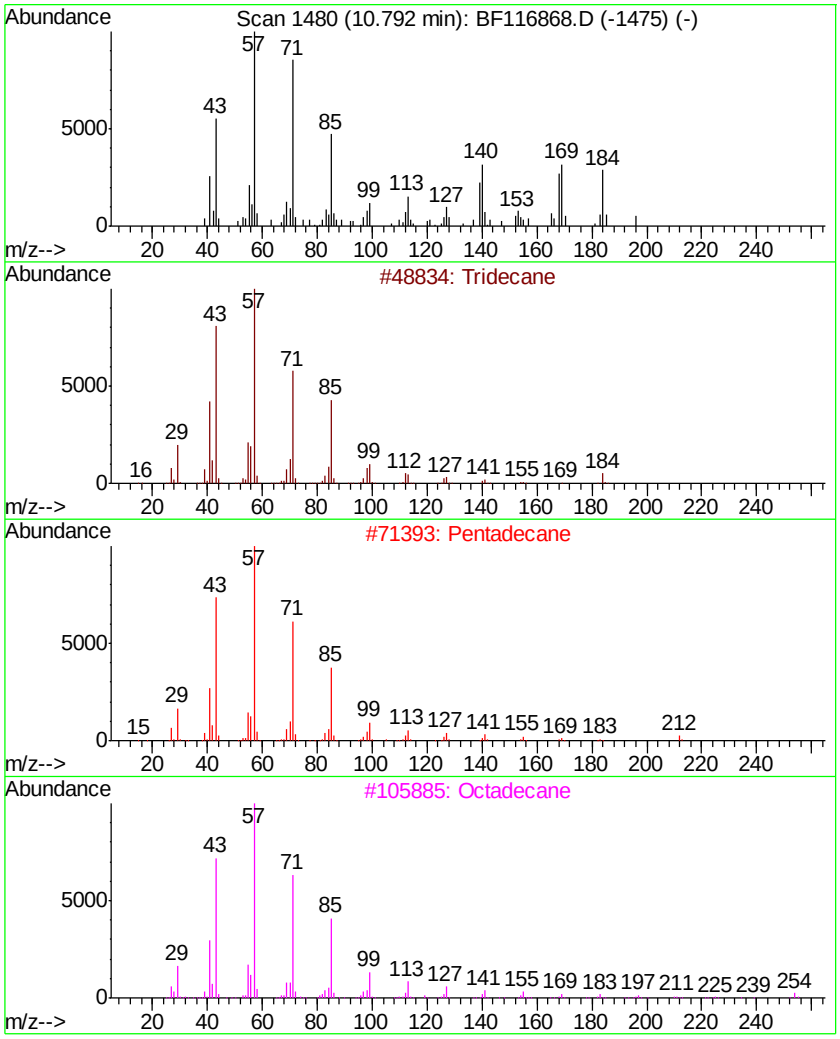
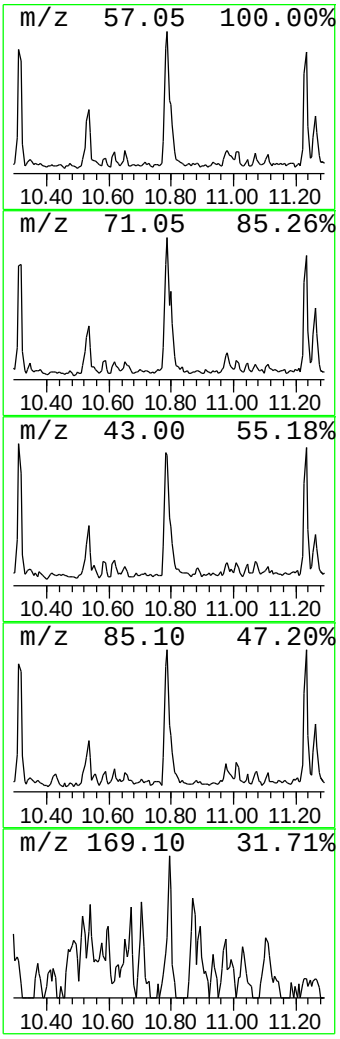
Peak Number 5 Tridecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	7.16 ng	201413	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	90
2	Pentadecane	212	C15H32	000629-62-9	86
3	Octadecane	254	C18H38	000593-45-3	86
4	Hexadecane	226	C16H34	000544-76-3	86
5	Dodecane	170	C12H26	000112-40-3	83





Library Search Compound Report

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Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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

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

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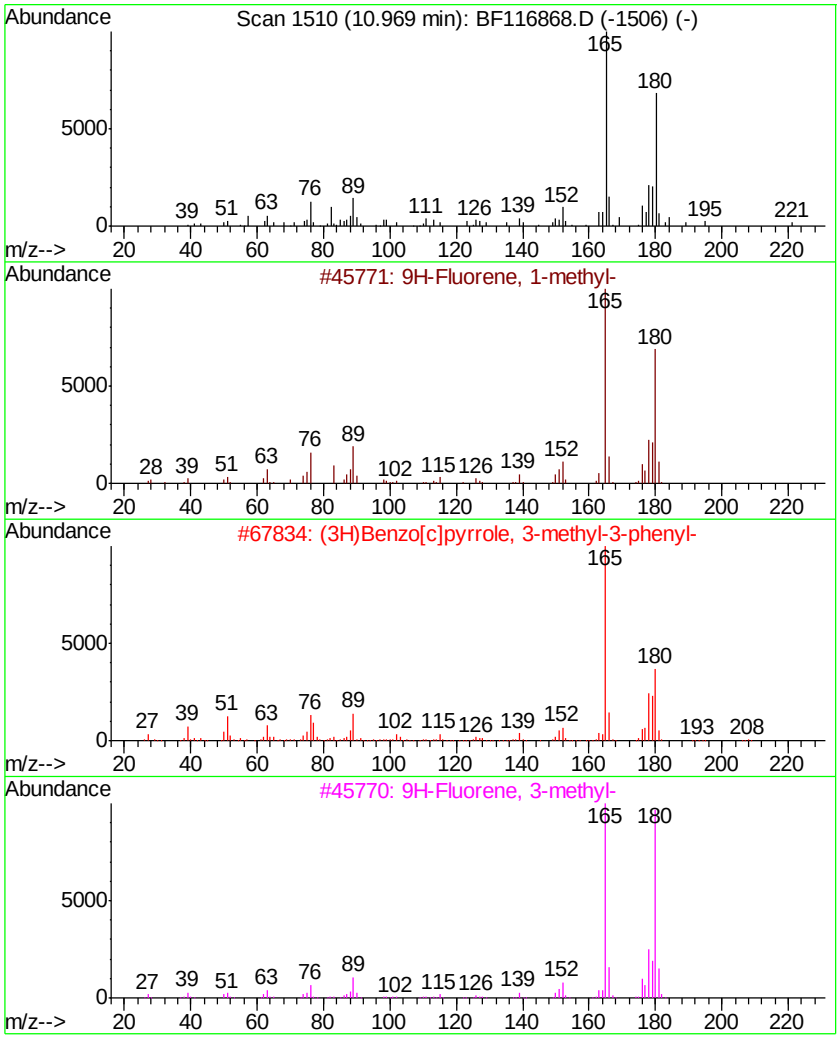
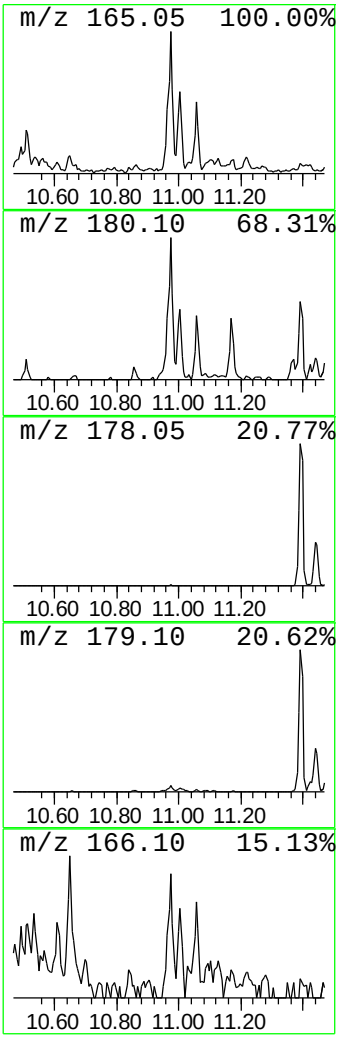
Peak Number 6 9H-Fluorene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	4.85 ng	136464	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	94
2	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	83
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	76
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	72
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	70





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Operator : HP/JU
Sample : K4661-01 5X
Misc :
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Instrument : BNA_F
ClientSampleId : HD-01-090519

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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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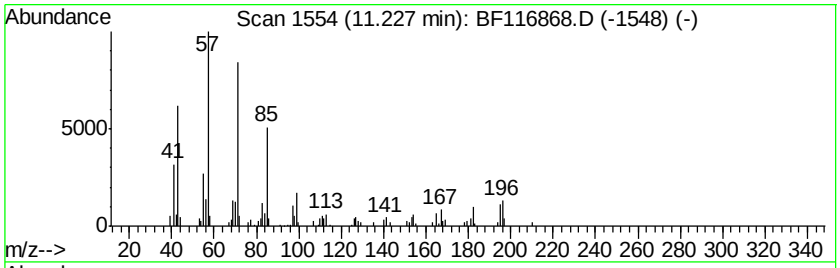
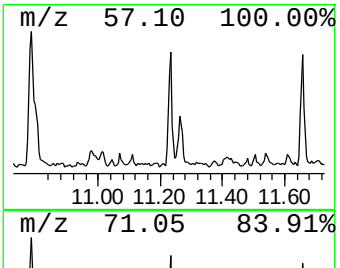
Peak Number 7 Decane, 2,3,5-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	5.82 ng	163875	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	80
2	Tetracosane	338	C24H50	000646-31-1	80
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80
4	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	72
5	Borane, diethyl(decyloxy)-	226	C14H31BO	1000152-34-3	72





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Sample : K4661-01 5X
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Instrument : BNA_F
ClientSampleId : HD-01-090519

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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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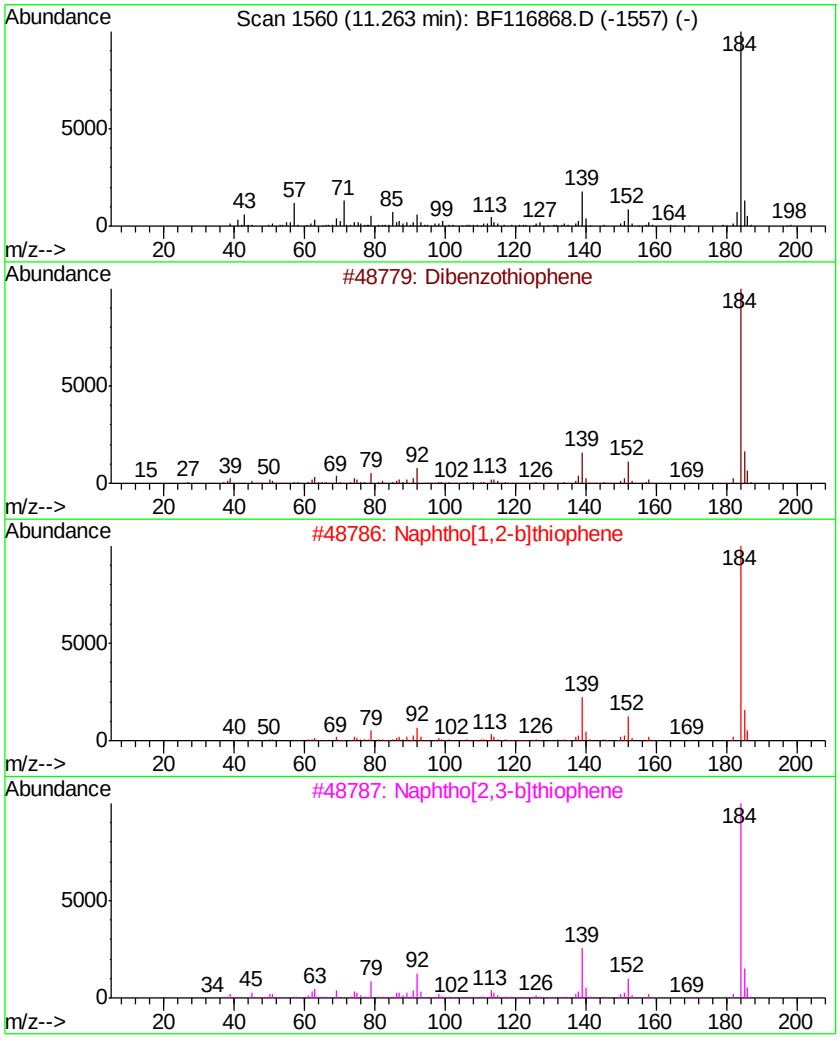
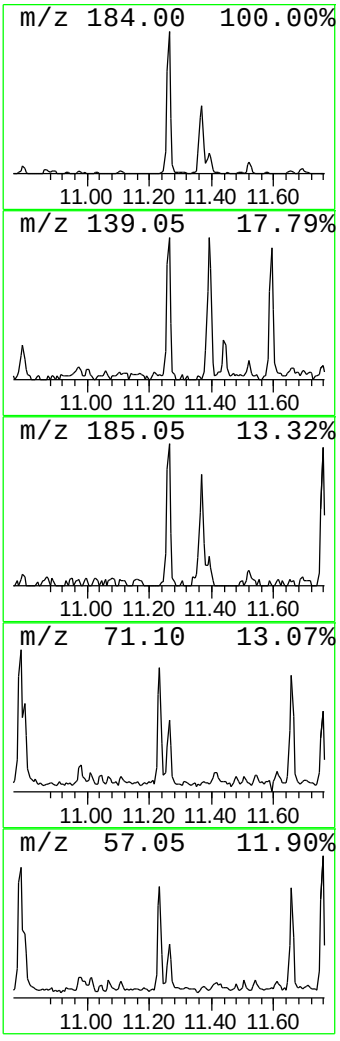
Peak Number 8 Dibenzothiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	7.97 ng	224221	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Library Search Compound Report

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ClientSampleId : HD-01-090519

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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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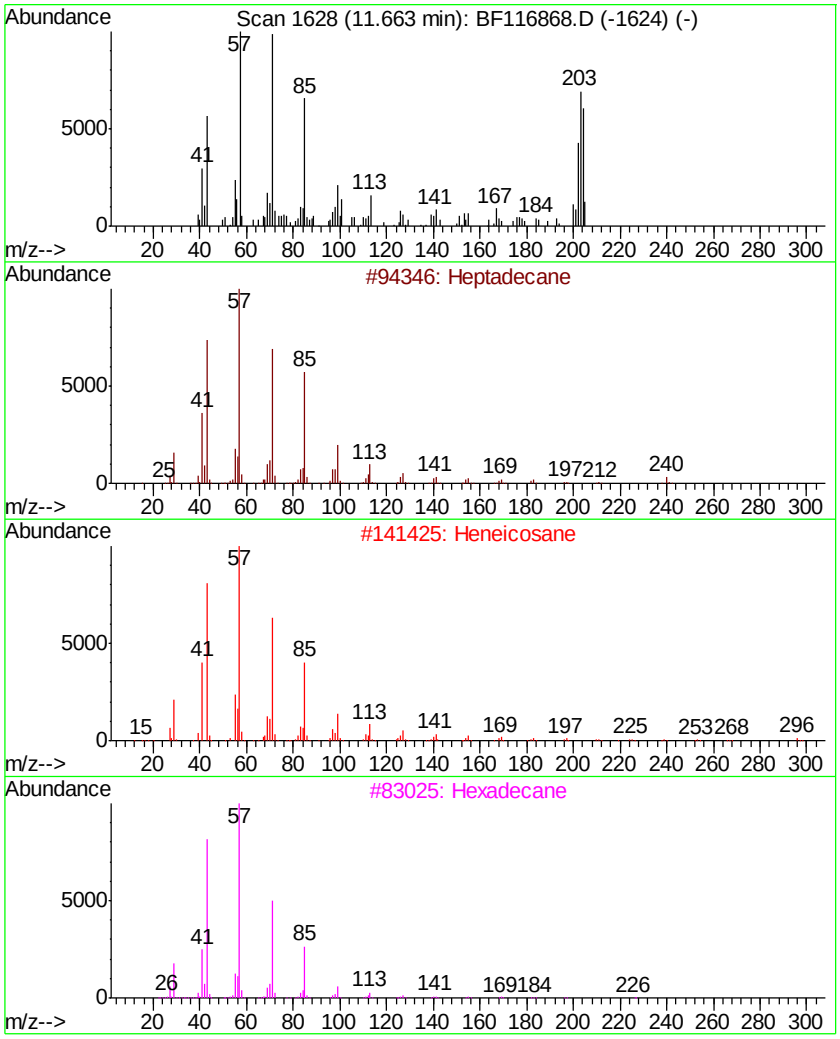
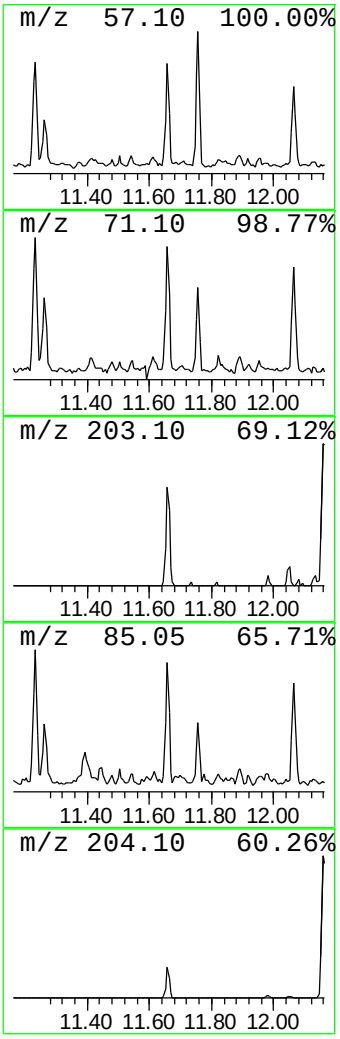
Peak Number 9 Heptadecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	4.87 ng	137124	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	60
2	Heneicosane	296	C21H44	000629-94-7	49
3	Hexadecane	226	C16H34	000544-76-3	49
4	Octadecane	254	C18H38	000593-45-3	46
5	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	46





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ClientSampleId : HD-01-090519

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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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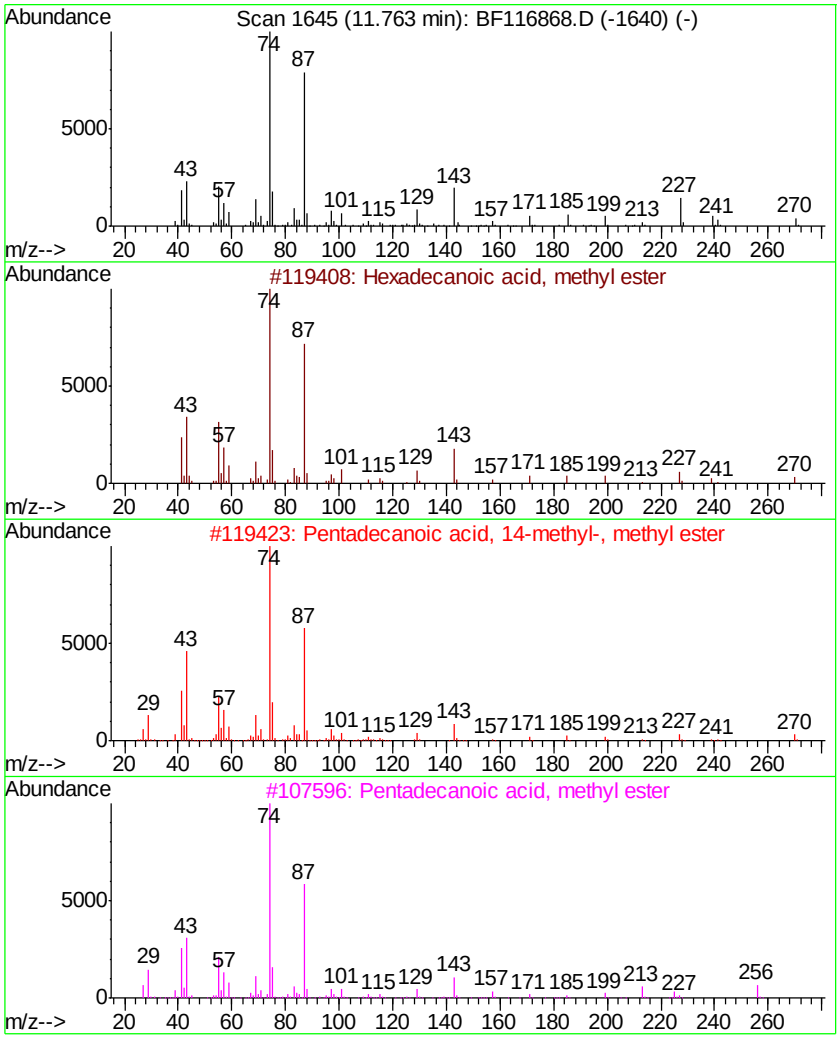
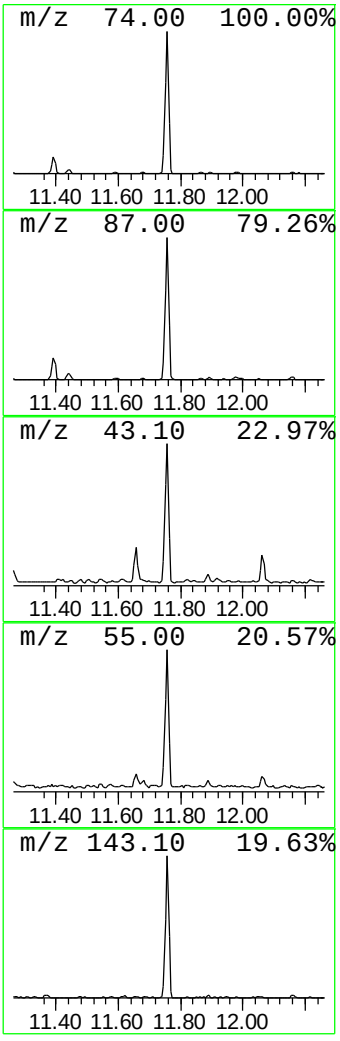
Peak Number 10 Hexadecanoic acid, methyl e... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	28.11 ng	790711	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	99
2	Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	94
3	Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	90
4	Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	87
5	Methyl tetradecanoate	242	C15H30O2	000124-10-7	86





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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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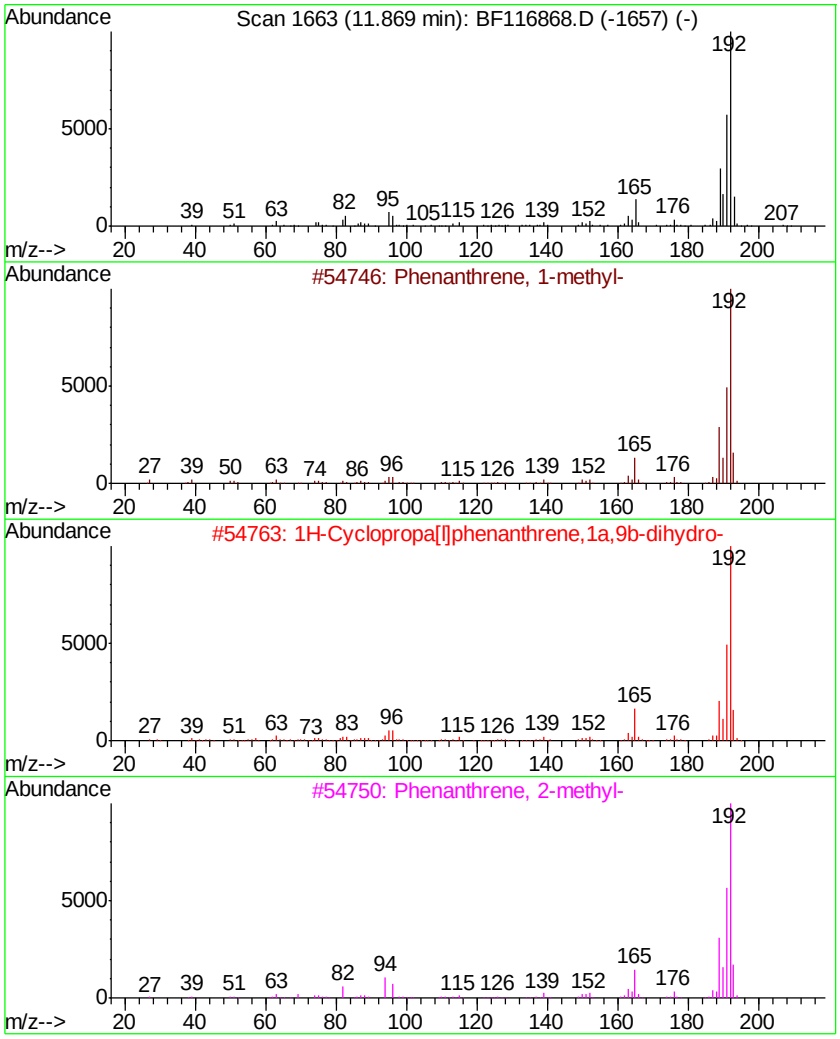
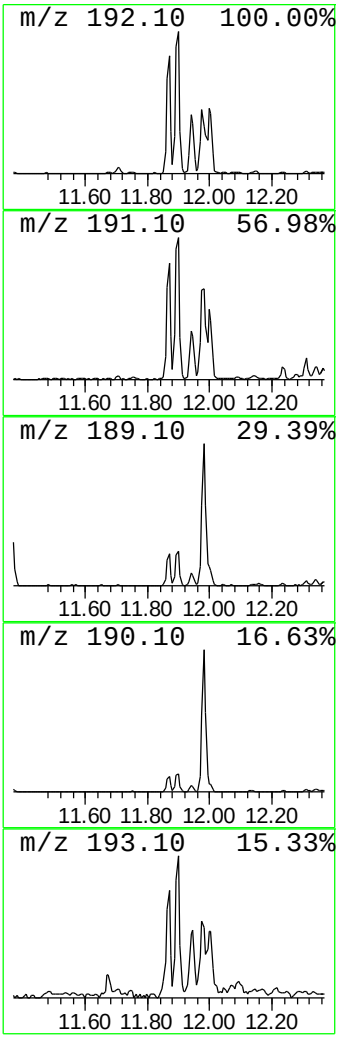
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	8.97 ng	252287	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96





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Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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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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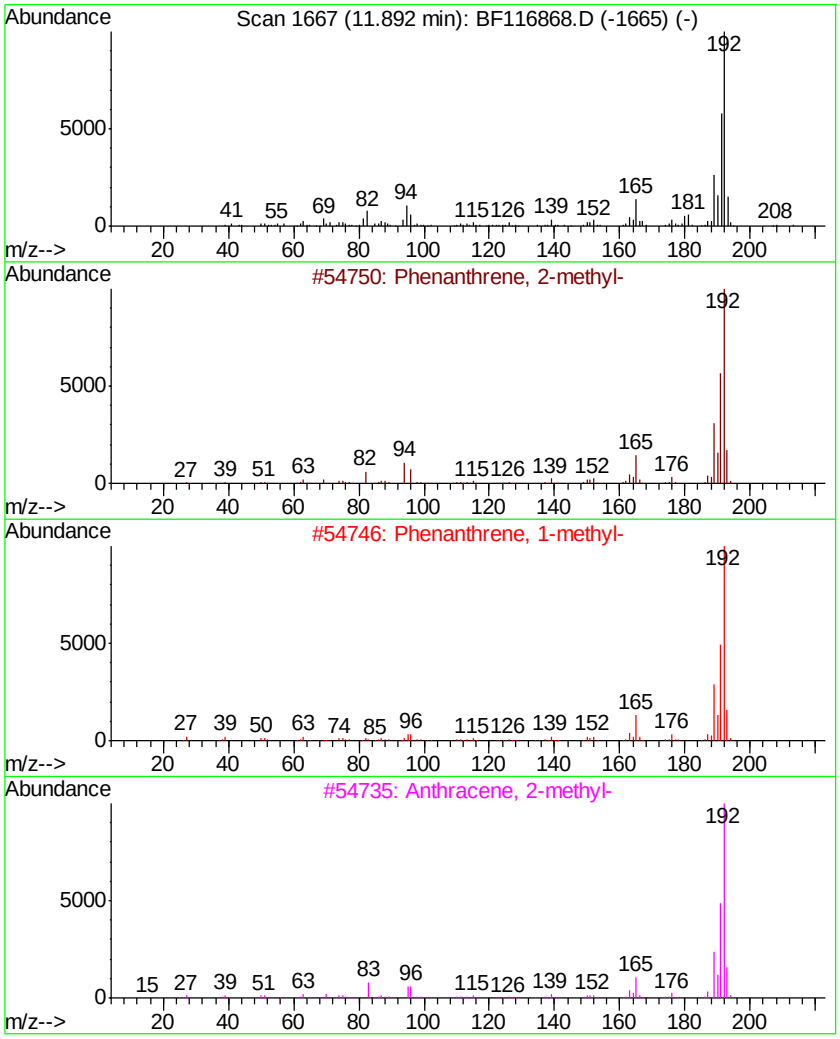
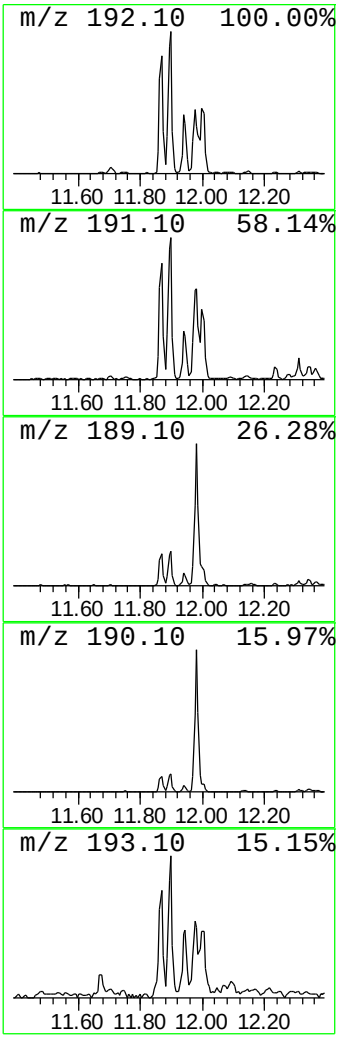
Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	11.70 ng	329198	Phenanthrene-d10	11.37

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	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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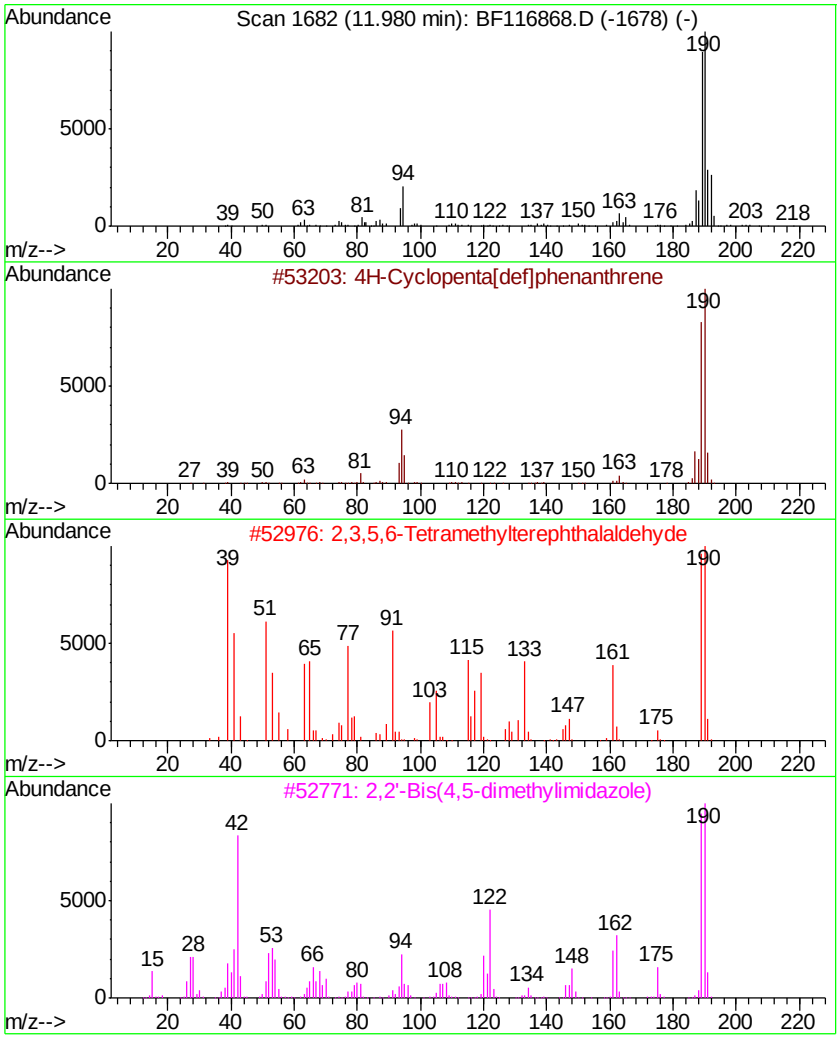
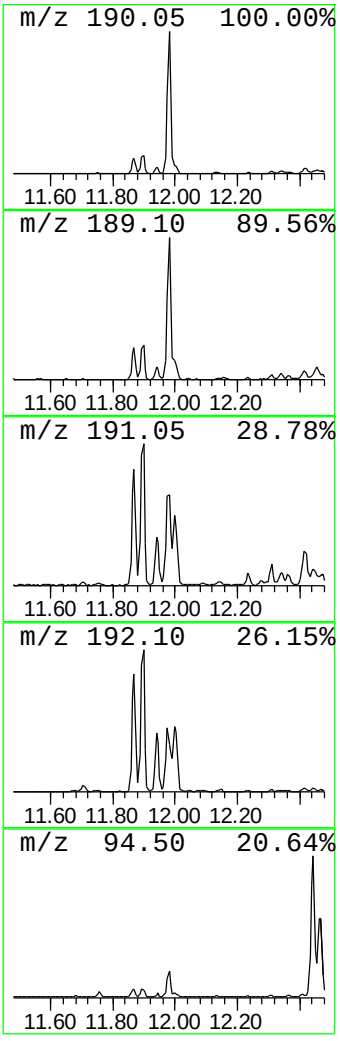
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	16.52 ng	464677	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	6,7-Methylenedioxy-4(3H)-quinazo...	190	C9H6N2O3	028310-11-4	33
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





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Misc :
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ClientSampleId : HD-01-090519

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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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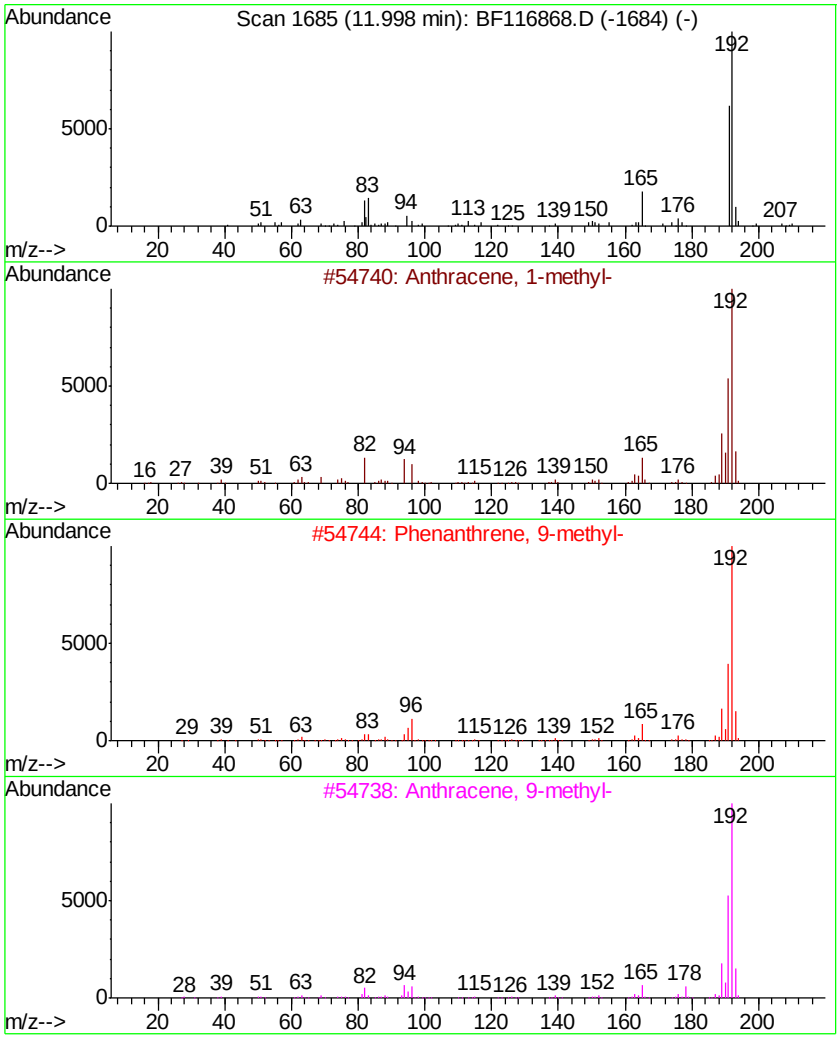
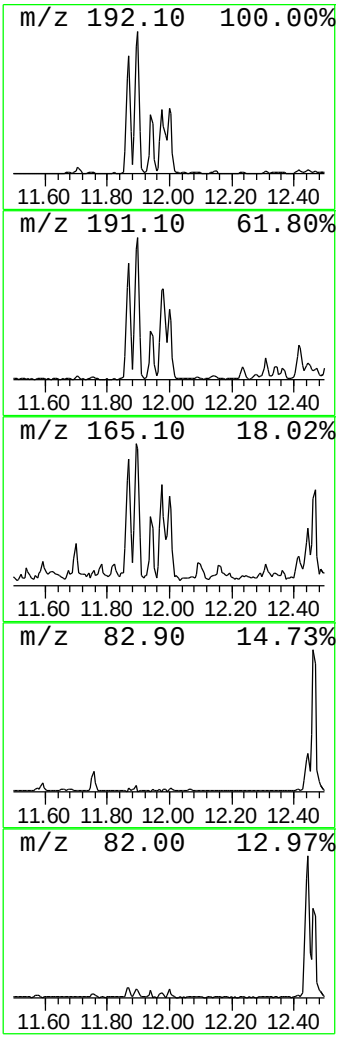
Peak Number 14 Anthracene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	4.38 ng	123157	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	80
2	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	64
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	64
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	64





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Misc :
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TIC Library : C:\DATABASE\NIST11.L
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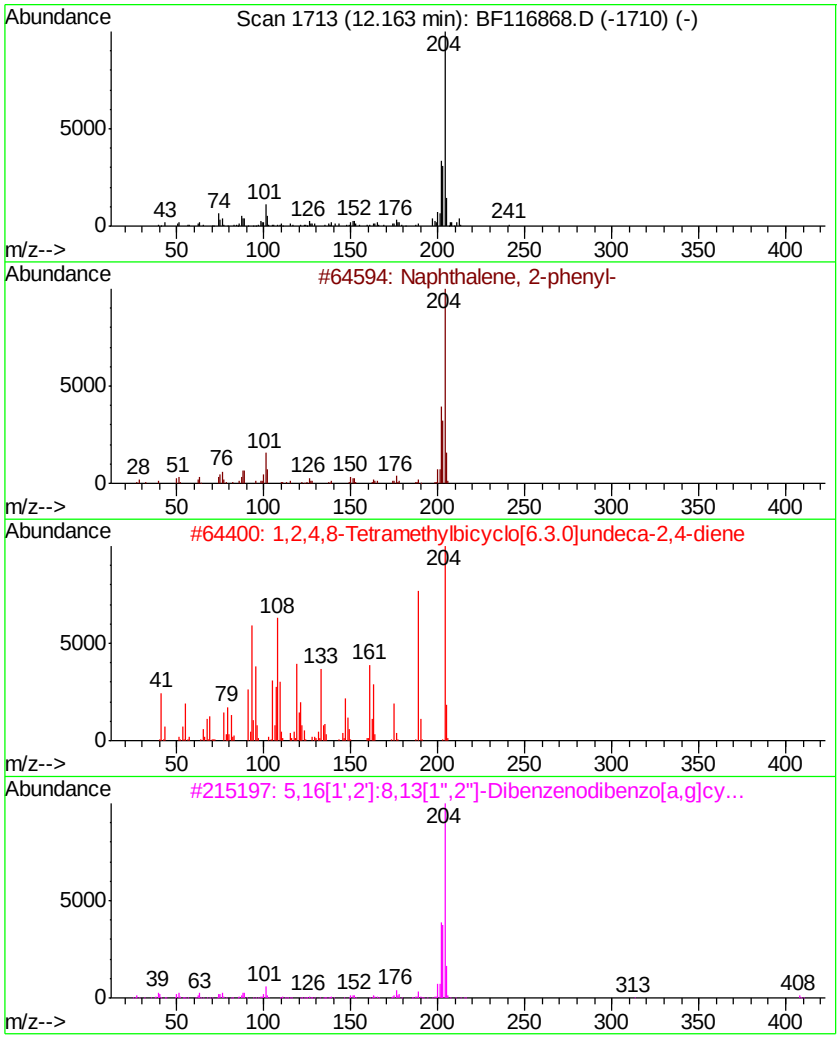
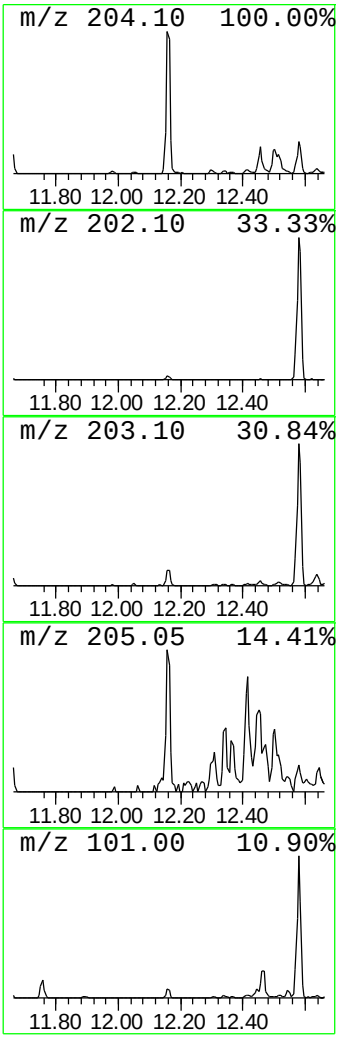
Peak Number 15 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	5.15 ng	144926	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	90
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81





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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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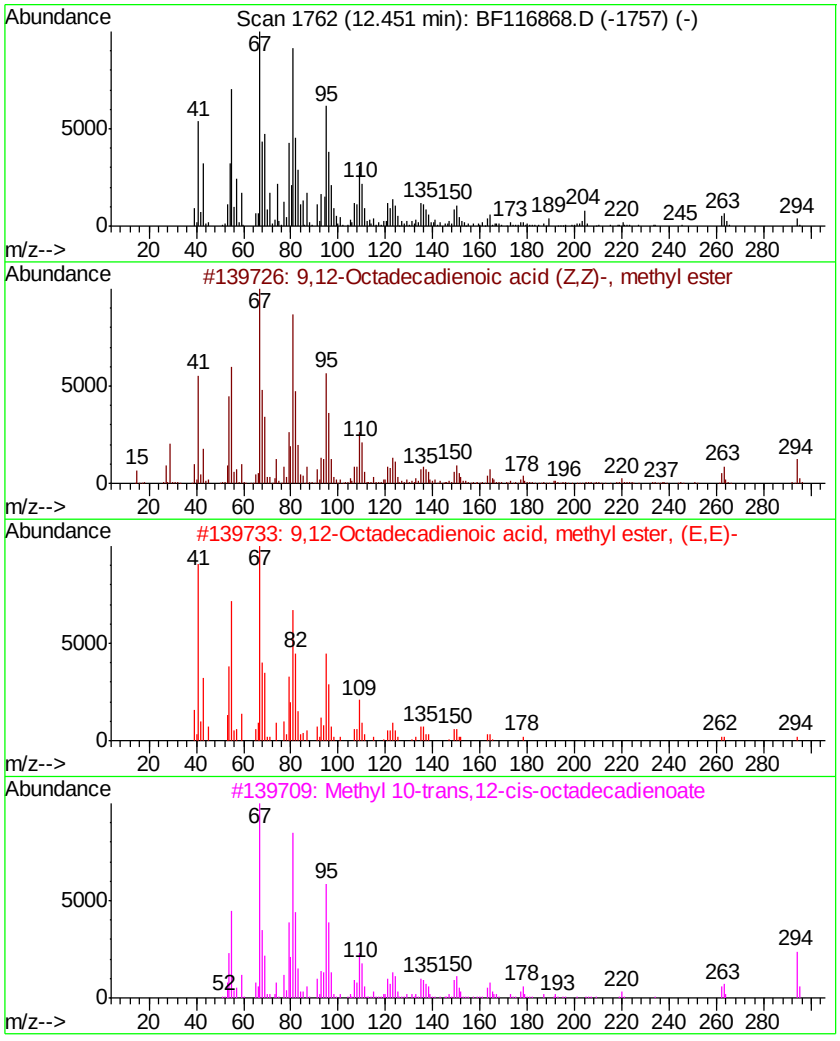
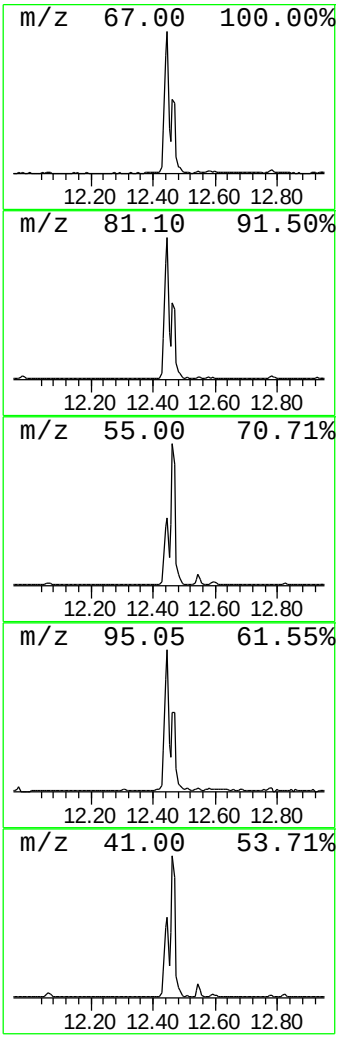
Peak Number 16 9,12-Octadecadienoic acid (... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	72.05 ng	2027150	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
2	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
3	Methyl 10-trans,12-cis-octadecad...	294	C19H34O2	1000336-44-2	99
4	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	98
5	10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	97





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TIC Library : C:\DATABASE\NIST11.L
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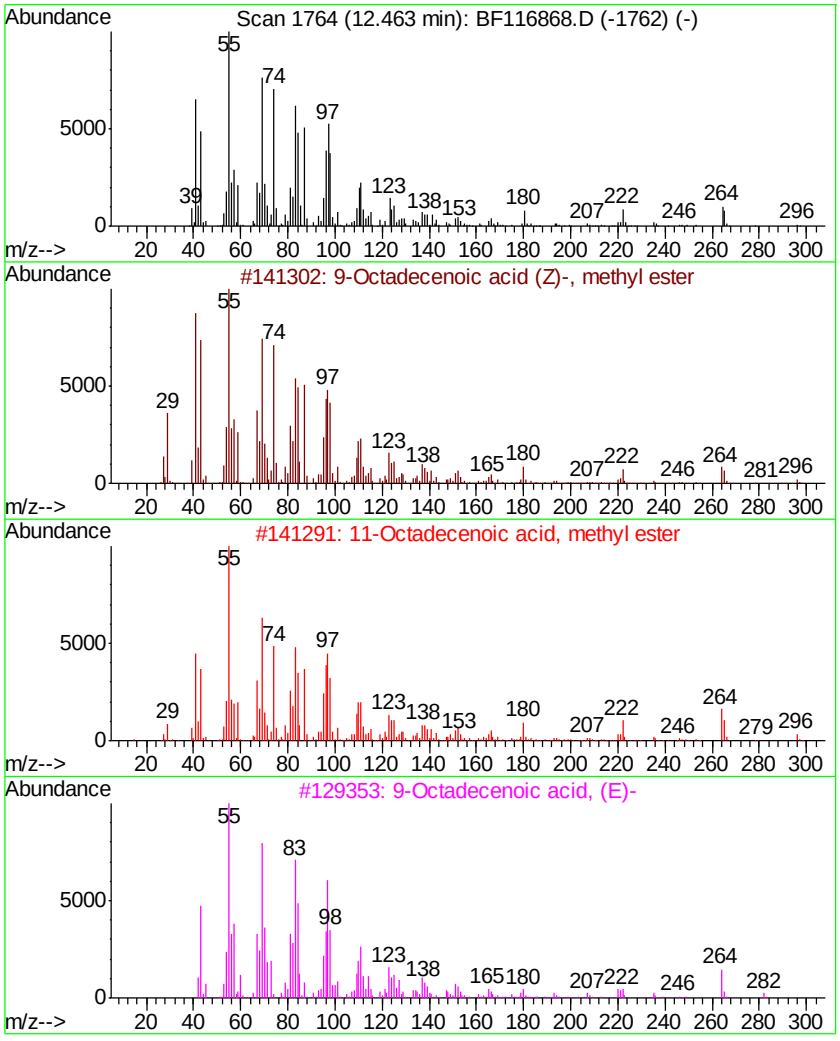
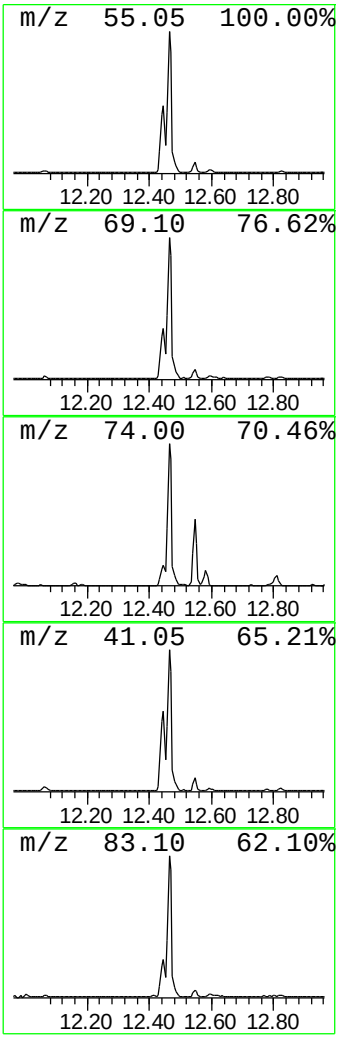
Peak Number 17 9-Octadecenoic acid (Z)-, m... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	111.74 ng	3143750	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	94
2	11-Octadecenoic acid, methyl ester	296	C19H36O2	052380-33-3	86
3	9-Octadecenoic acid, (E)-	282	C18H34O2	000112-79-8	74
4	15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	58
5	7-Hexadecenoic acid, methyl este...	268	C17H32O2	056875-67-3	52





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Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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

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

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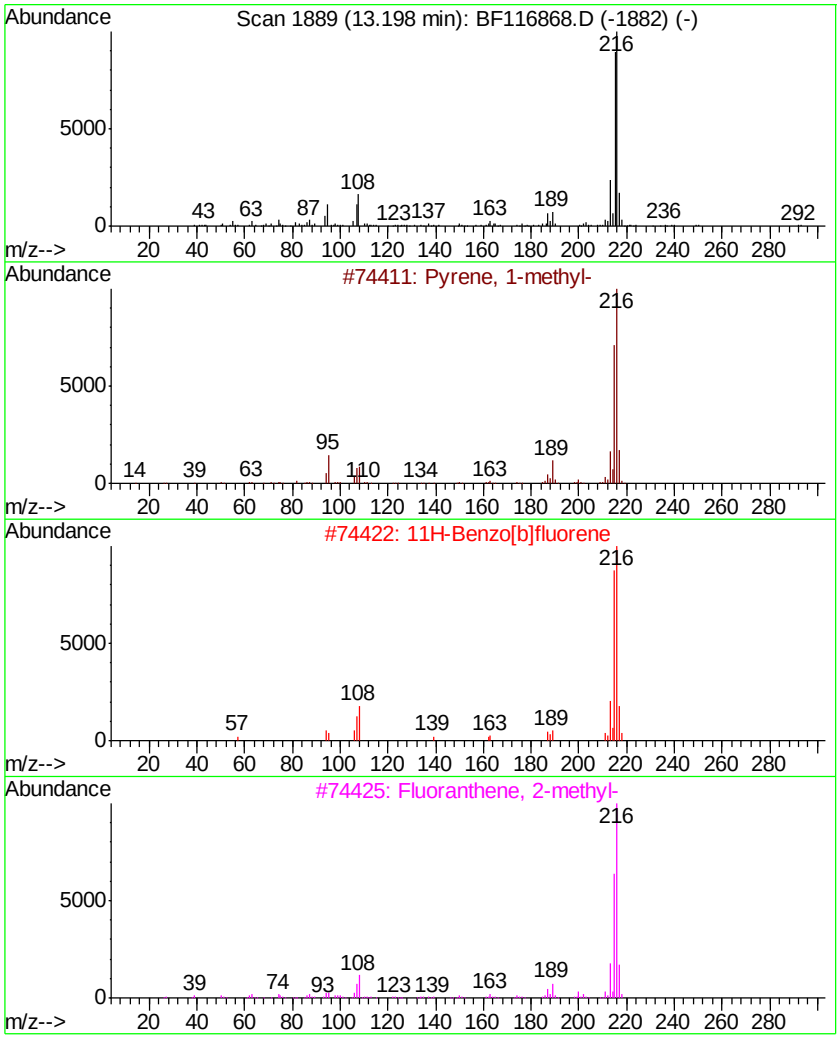
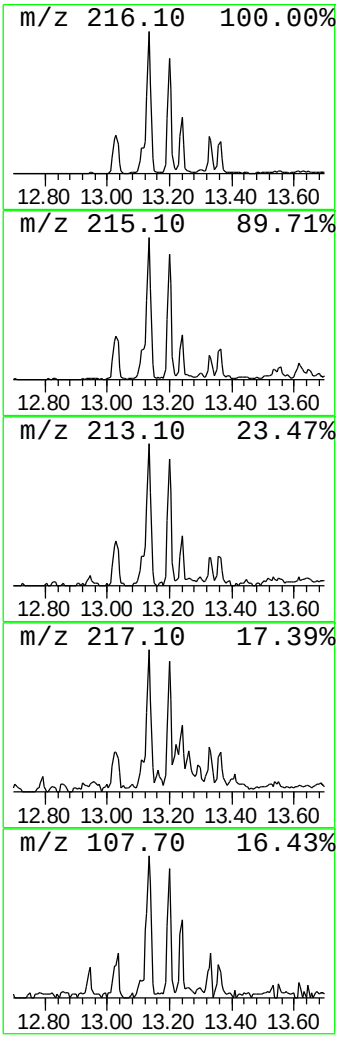
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	4.77 ng	338385	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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

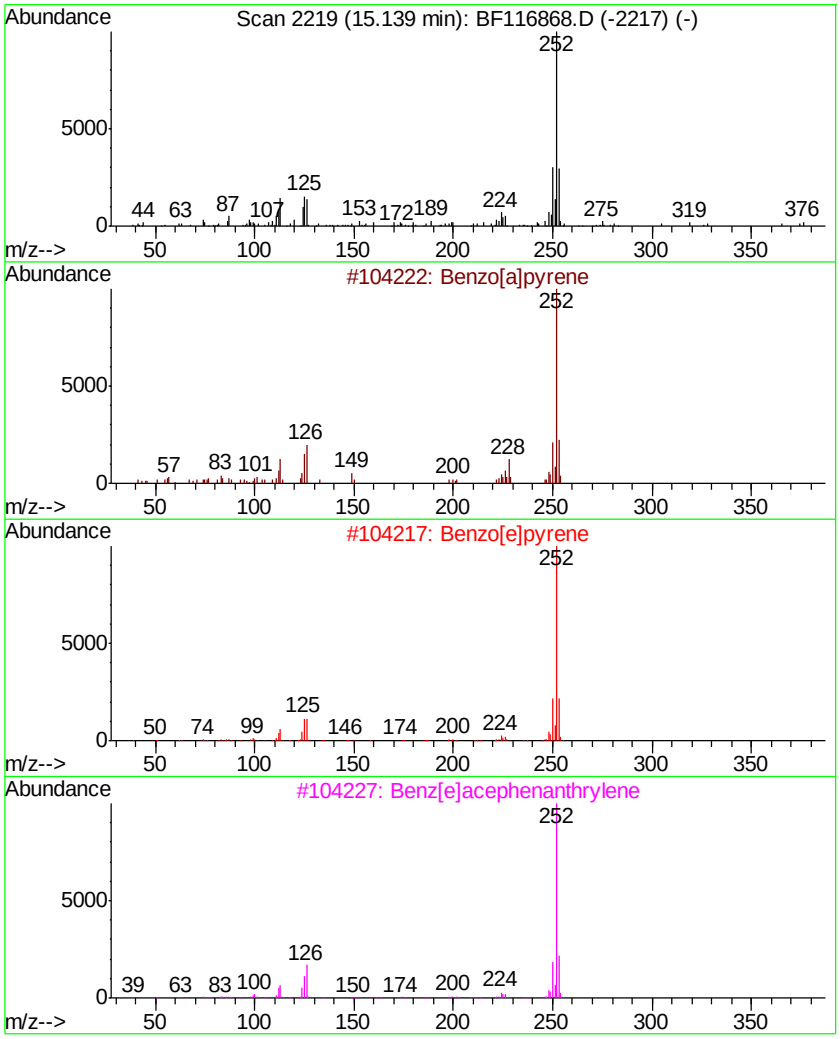
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

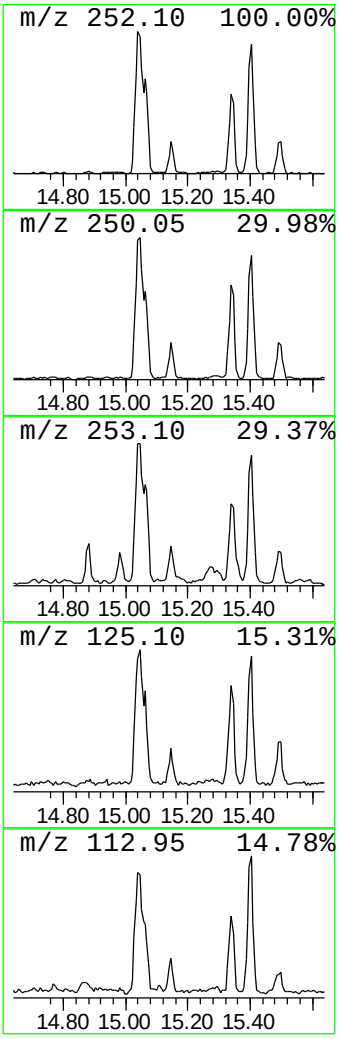
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	4.54 ng	109113	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	91
2	Benzo[e]pyrene	252	C20H12	000192-97-2	91
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Perylene	252	C20H12	000198-55-0	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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

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

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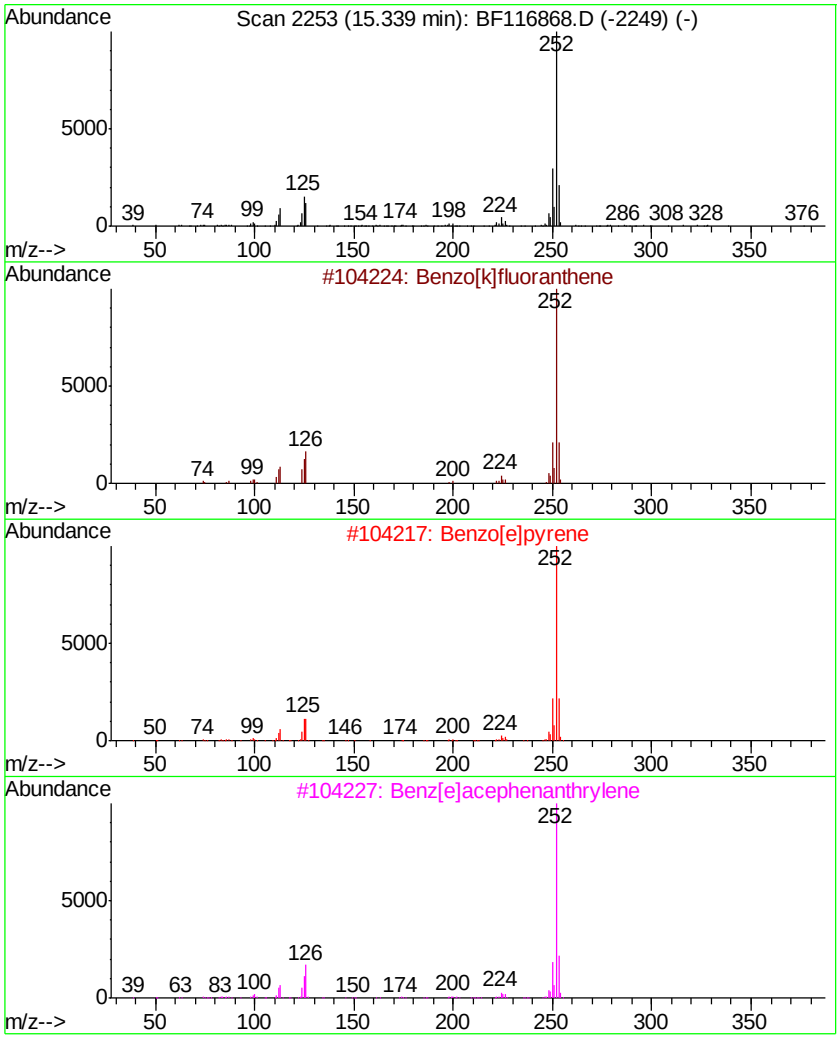
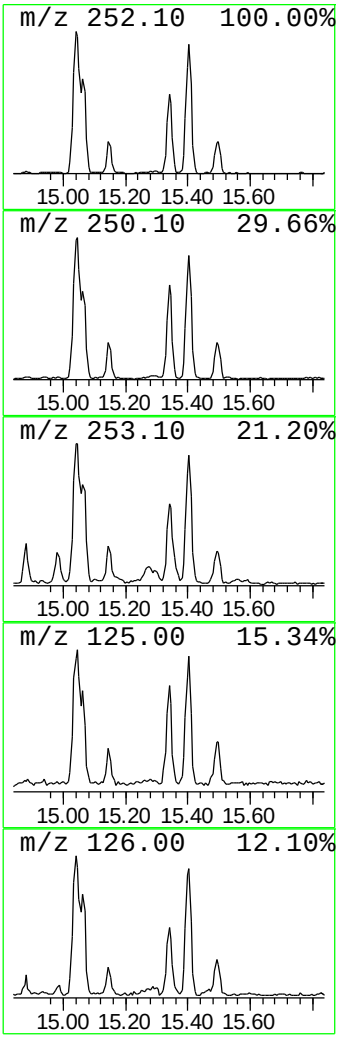
Peak Number 20 Perylene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	15.31 ng	368257	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Perylene	252	C20H12	000198-55-0	94
5	Benzo[a]pyrene	252	C20H12	000050-32-8	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF090619\
Data File : BF116868.D
Acq On : 6 Sep 2019 19:09
Operator : HP/JU
Sample : K4661-01 5X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-01-090519

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

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.62	6.62	11.2	ng	250538	1	6.85	447156	20.0
Naphthalene, 1,6-...	9.47	4.3	ng	144281	3	9.88	675767	20.0
Naphthalene, 1,5-...	9.54	5.2	ng	176326	3	9.88	675767	20.0
Tridecane	10.79	7.2	ng	201413	4	11.37	562675	20.0
9H-Fluorene, 1-me...	10.97	4.8	ng	136464	4	11.37	562675	20.0
Decane, 2,3,5-tri...	11.23	5.8	ng	163875	4	11.37	562675	20.0
Dibenzothiophene	11.26	8.0	ng	224221	4	11.37	562675	20.0
Heptadecane	11.66	4.9	ng	137124	4	11.37	562675	20.0
Hexadecanoic acid...	11.76	28.1	ng	790711	4	11.37	562675	20.0
Phenanthrene, 1-m...	11.87	9.0	ng	252287	4	11.37	562675	20.0
Phenanthrene, 2-m...	11.89	11.7	ng	329198	4	11.37	562675	20.0
4H-Cyclopenta[def...	11.98	16.5	ng	464677	4	11.37	562675	20.0
Anthracene, 1-met...	12.00	4.4	ng	123157	4	11.37	562675	20.0
Naphthalene, 2-ph...	12.16	5.2	ng	144926	4	11.37	562675	20.0
9,12-Octadecadien...	12.45	72.0	ng	2027150	4	11.37	562675	20.0
9-Octadecenoic ac...	12.46	111.7	ng	3143750	4	11.37	562675	20.0
Pyrene, 1-methyl-	13.20	4.8	ng	338385	5	14.00	1419180	20.0
Benzo[e]pyrene	15.14	4.5	ng	109113	6	15.46	480930	20.0
Perylene	15.34	15.3	ng	368257	6	15.46	480930	20.0