LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

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:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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	5.004	493	496	515	rBV	159128	232910	12.08%	0.738%
2	5.410	562	565	592	rBV	1400563	1888351	97.97%	5.982%
3	6.434	736	739	758	rBV	1587734	1927465	100.00%	6.106%
4	6.563	758	761	768	rVV	1799350	1829950	94.94%	5.797%
5	6.616	768	770	777	rVB3	22417	28233	1.46%	0.089%
6	6.792	797	800	816	rBV	997471	938757	48.70%	2.974%
7	6.945	823	826	840	rVB	1360332	1434392	74.42%	4.544%
8	7.363	893	897	915	rBV	1107564	1196877	62.10%	3.792%
9	8.075	1015	1018	1030	rBV	1200724	1217281	63.15%	3.856%
10	8.657	1114	1117	1122	rBV	42549	34675	1.80%	0.110%
11	8.798	1138	1141	1145	rBV	43092	48346	2.51%	0.153%
12	8.892	1154	1157	1160	rBV	44332	37086	1.92%	0.117%
13	9.086	1187	1190	1197	rBV	24988	21251	1.10%	0.067%
14	9.151	1197	1201	1209	rVV	2014113	1862944	96.65%	5.902%
15	9.222	1209	1213	1216	rVB	72826	66495	3.45%	0.211%
16	9.257	1216	1219	1223	rBV2	33025	33570	1.74%	0.106%
17	9.351	1230	1235	1240	rBV2	13886	19604	1.02%	0.062%
18	9.416	1243	1246	1251	rBV2	37010	53202	2.76%	0.169%
19	9.492	1255	1259	1262	rBV2	64427	73792	3.83%	0.234%
20	9.522	1262	1264	1265	rVV	33399	29625	1.54%	0.094%
21	9.545	1265	1268	1275	rVB2	85662	118626	6.15%	0.376%
22	9.610	1275	1279	1281	rBV2	33174	37560	1.95%	0.119%
23	9.698	1290	1294	1298	rBV2	68679	78244	4.06%	0.248%
24	9.751	1300	1303	1305	rVV	89031	71544	3.71%	0.227%
25	9.833	1305	1317	1320	rVV	1179776	1130657	58.66%	3.582%
26	9.863	1320	1322	1329	rVB	218328	205933	10.68%	0.652%
27	9.933	1330	1334	1338	rBV3	23891	31566	1.64%	0.100%
28	9.986	1339	1343	1345	rBV2	25998	29456	1.53%	0.093%
29	10.039	1348	1352	1355	rVV2	111084	112715	5.85%	0.357%
30	10.075	1355	1358	1361	rVB3	45118	46597	2.42%	0.148%
31	10.145	1366	1370	1373	rBV	36042	42946	2.23%	0.136%
32	10.180	1373	1376	1381	rVB3	33633	41097	2.13%	0.130%
33	10.245	1381	1387	1391	rBV2	119811	152356	7.90%	0.483%
34	10.380	1407	1410	1416	rVB	146700	149955	7.78%	0.475%

LSC Area Percent Report

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Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

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:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.469	1422	1425	1427	rVB	67964	63075	3.27%	0.200%
36	10.516	1431	1433	1435	rBV3	24220	22476	1.17%	0.071%
37	10.539	1435	1437	1441	rVB2	47937	45390	2.35%	0.144%
38	10.628	1448	1452	1465	rBV	749176	833232	43.23%	2.640%
39	10.722	1465	1468	1473	rBV	141996	188034	9.76%	0.596%
40	10.816	1481	1484	1487	rBV5	19460	19753	1.02%	0.063%
41	10.933	1495	1504	1506	rBV2	57134	103887	5.39%	0.329%
42	11.057	1520	1525	1527	rBV4	33446	54460	2.83%	0.173%
43	11.080	1527	1529	1535	rVV4	32304	45976	2.39%	0.146%
44	11.139	1536	1539	1541	rVV	80207	70624	3.66%	0.224%
45	11.169	1541	1544	1547	rVV	123699	119558	6.20%	0.379%
46	11.198	1547	1549	1551	rVV2	61314	57912	3.00%	0.183%
47	11.222	1551	1553	1557	rVB	89846	79082	4.10%	0.251%
48	11.322	1566	1570	1572	rBV	1020615	908091	47.11%	2.877%
49	11.345	1572	1574	1579	rVV	1471854	1234772	64.06%	3.912%
50	11.398	1580	1583	1588	rVB	369827	356512	18.50%	1.129%
51	11.563	1605	1611	1614	rBV2	146419	178593	9.27%	0.566%
52	11.592	1614	1616	1618	rVV	61373	46077	2.39%	0.146%
53	11.822	1652	1655	1658	rBV	170994	163848	8.50%	0.519%
54	11.851	1658	1660	1665	rVV	202209	199028	10.33%	0.631%
55	11.904	1665	1669	1672	rVV	93507	96317	5.00%	0.305%
56	11.939	1672	1675	1677	rVV	232796	260160	13.50%	0.824%
57	11.957	1677	1678	1683	rVB	115217	104997	5.45%	0.333%
58	11.998	1683	1685	1690	rBV2	61434	75901	3.94%	0.240%
59	12.116	1702	1705	1709	rBV	129433	113773	5.90%	0.360%
60	12.163	1710	1713	1716	rBV2	73695	73961	3.84%	0.234%
61	12.269	1725	1731	1734	rBV3	49230	102067	5.30%	0.323%
62	12.298	1734	1736	1738	rVB	38606	31197	1.62%	0.099%
63	12.374	1746	1749	1750	rBV	113346	104563	5.42%	0.331%
64	12.474	1761	1766	1769	rBV2	74027	108496	5.63%	0.344%
65	12.539	1773	1777	1781	rBV	1635865	1482478	76.91%	4.697%
66	12.604	1786	1788	1792	rBV2	35582	53677	2.78%	0.170%
67	12.692	1800	1803	1805	rBV2	88044	77358	4.01%	0.245%
68	12.769	1810	1816	1822	rBV	1378989	1609990	83.53%	5.101%
69	12.821	1822	1825	1829	rVB	82587	87161	4.52%	0.276%
70	12.904	1835	1839	1842	rBV	1336581	1190283	61.75%	3.771%
71	12.939	1843	1845	1848	rVB	77357	70099	3.64%	0.222%

LSC Area Percent Report

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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

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:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.992	1849	1854	1856	rBV2	89967	148033	7.68%	0.469%
73	13.074	1865	1868	1869	rBV2	81999	81670	4.24%	0.259%
74	13.098	1869	1872	1877	rVB2	208571	240196	12.46%	0.761%
75	13.163	1881	1883	1885	rVV	157715	119742	6.21%	0.379%
76	13.204	1888	1890	1894	rVB	108871	109610	5.69%	0.347%
77	13.298	1903	1906	1908	rBV	79605	72424	3.76%	0.229%
78	13.327	1909	1911	1917	rVB2	89574	99552	5.16%	0.315%
79	13.616	1958	1960	1963	rVB	97975	90127	4.68%	0.286%
80	13.721	1976	1978	1980	rBV2	128249	118662	6.16%	0.376%
81	13.792	1985	1990	1994	rVV3	199476	369409	19.17%	1.170%
82	13.827	1994	1996	2002	rVB	135271	147080	7.63%	0.466%
83	13.921	2010	2012	2014	rBV	99900	80508	4.18%	0.255%
84	13.968	2015	2020	2023	rVV2	1090843	1651982	85.71%	5.234%
85	13.998	2023	2025	2029	rVB	702918	583222	30.26%	1.848%
86	14.074	2036	2038	2041	rBV	111824	106278	5.51%	0.337%
87	15.015	2194	2198	2200	rBV	496426	673011	34.92%	2.132%
88	15.315	2246	2249	2252	rBV	289543	307443	15.95%	0.974%
89	15.380	2257	2260	2267	rVB	362240	474578	24.62%	1.504%
90	15.439	2267	2270	2273	rBV	418335	434379	22.54%	1.376%

Sum of corrected areas: 31564822

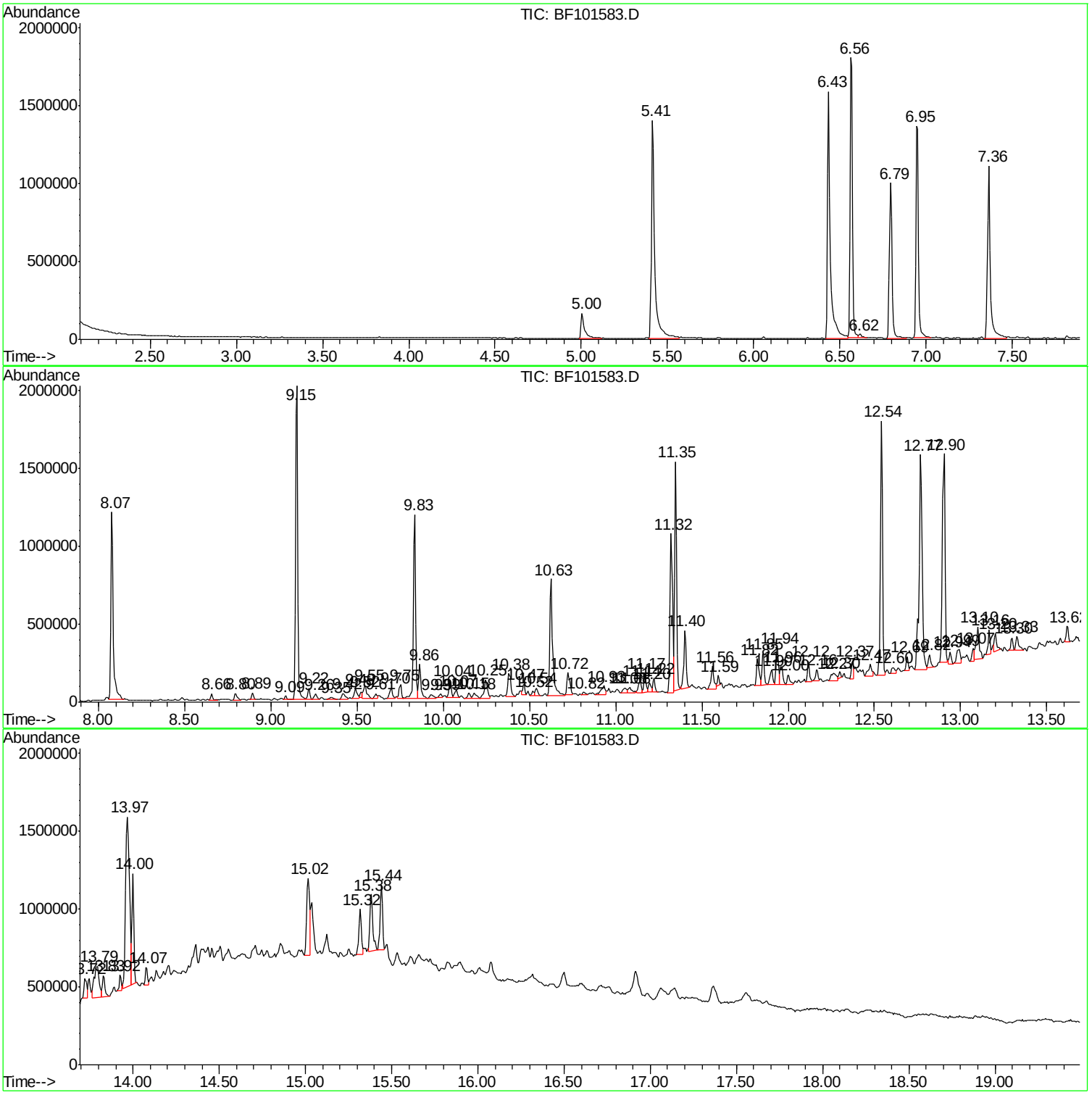
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

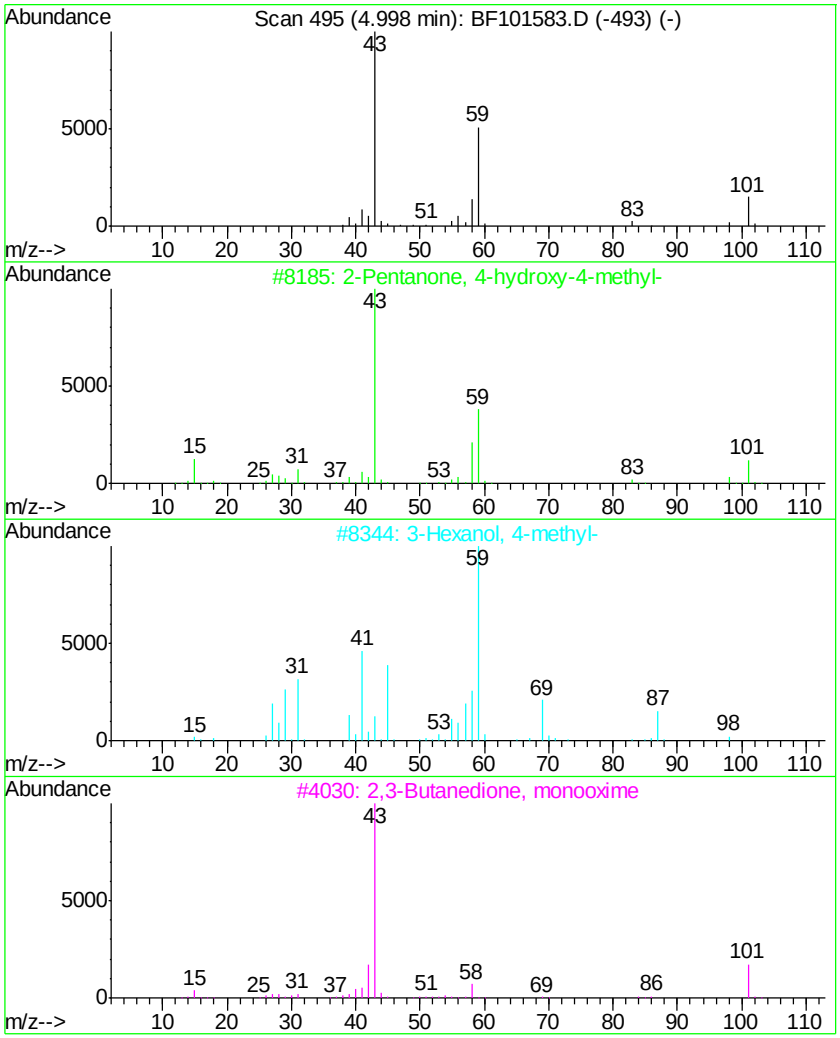
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

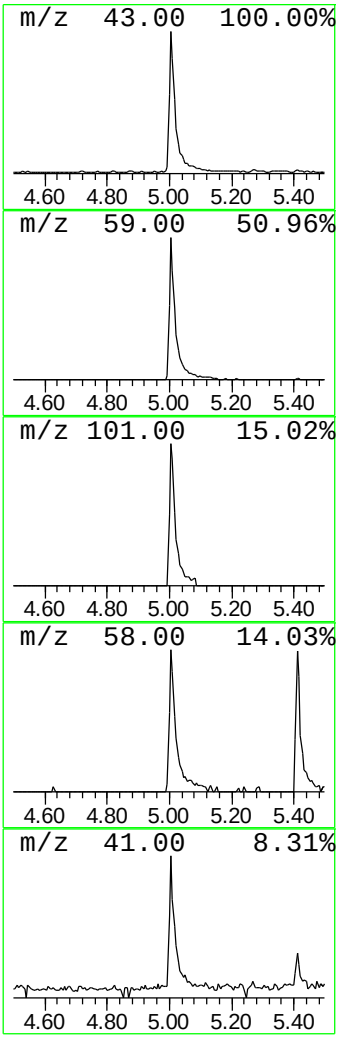
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.00	4.96 ng	232910	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
4	Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	9
5	2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9





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Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

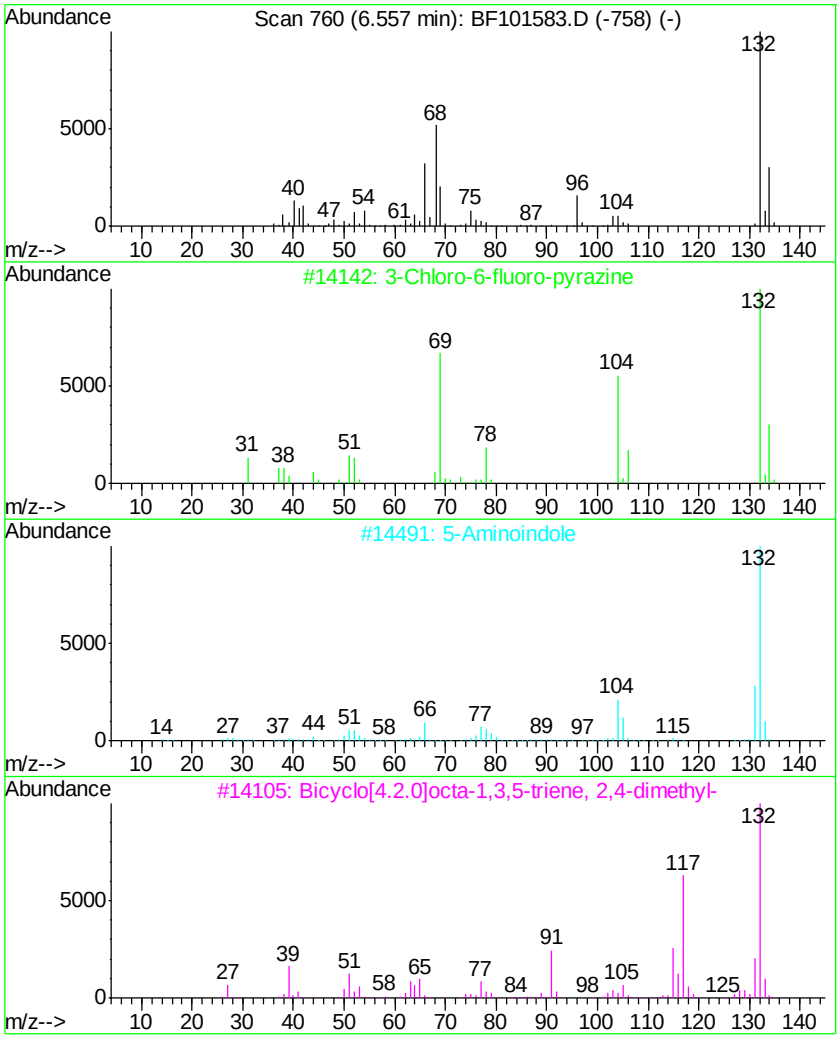
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

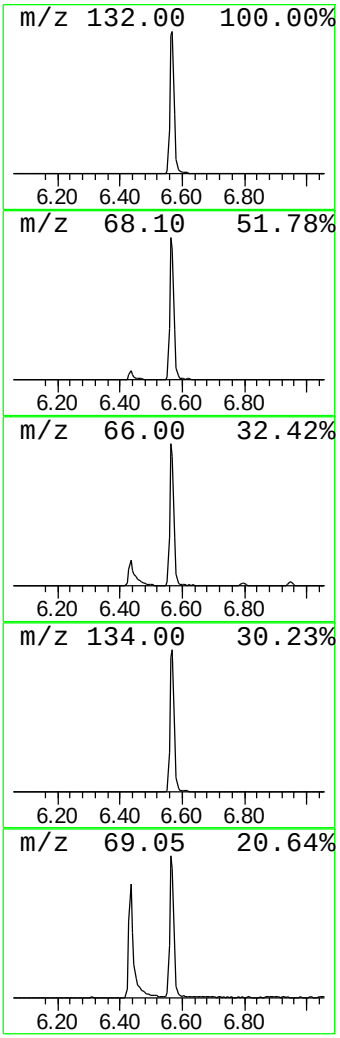
****

Peak Number 2 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	38.99 ng	1829950	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





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Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

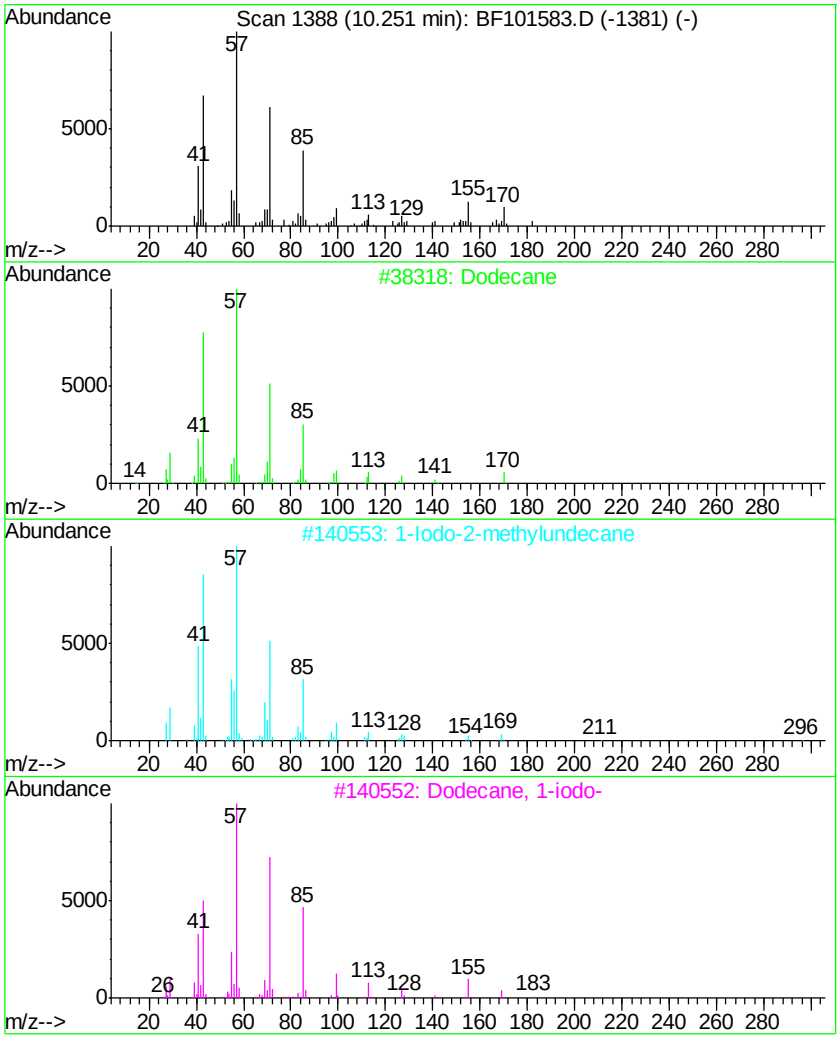
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

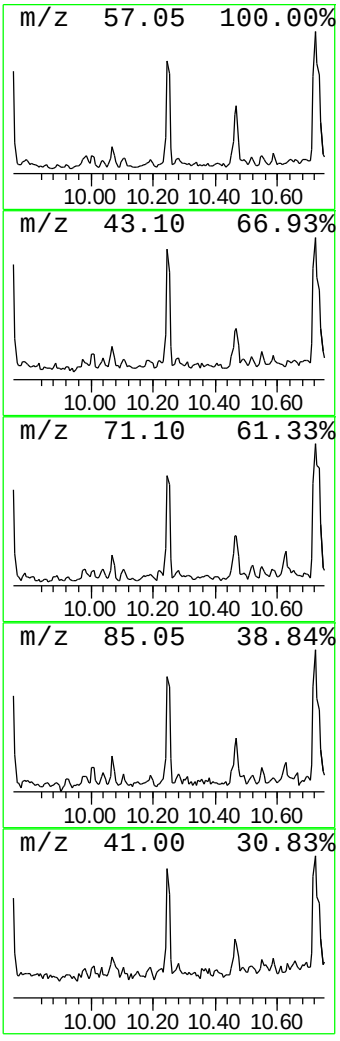
****

Peak Number 5 Dodecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.25	2.70 ng	152356	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	94
2	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	72
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72
4	Hexadecane	226	C16H34	000544-76-3	68
5	Pentadecane	212	C15H32	000629-62-9	64





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
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Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

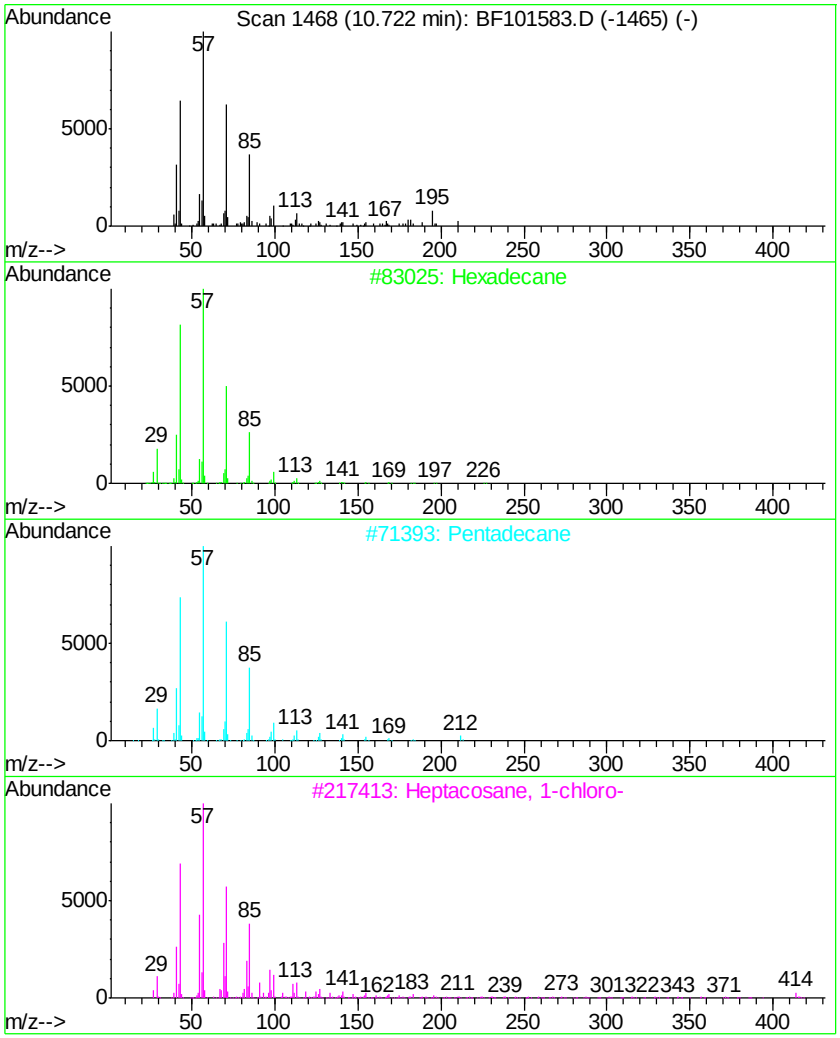
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

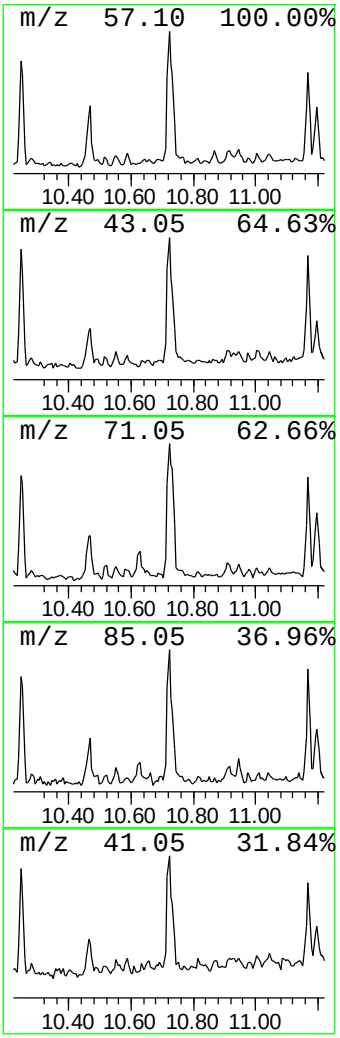
****

Peak Number 6 Hexadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.72	4.14 ng	188034	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	80
2	Pentadecane	212	C15H32	000629-62-9	80
3	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	78
4	Heptacosane	380	C27H56	000593-49-7	78
5	Tetradecane	198	C14H30	000629-59-4	64





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

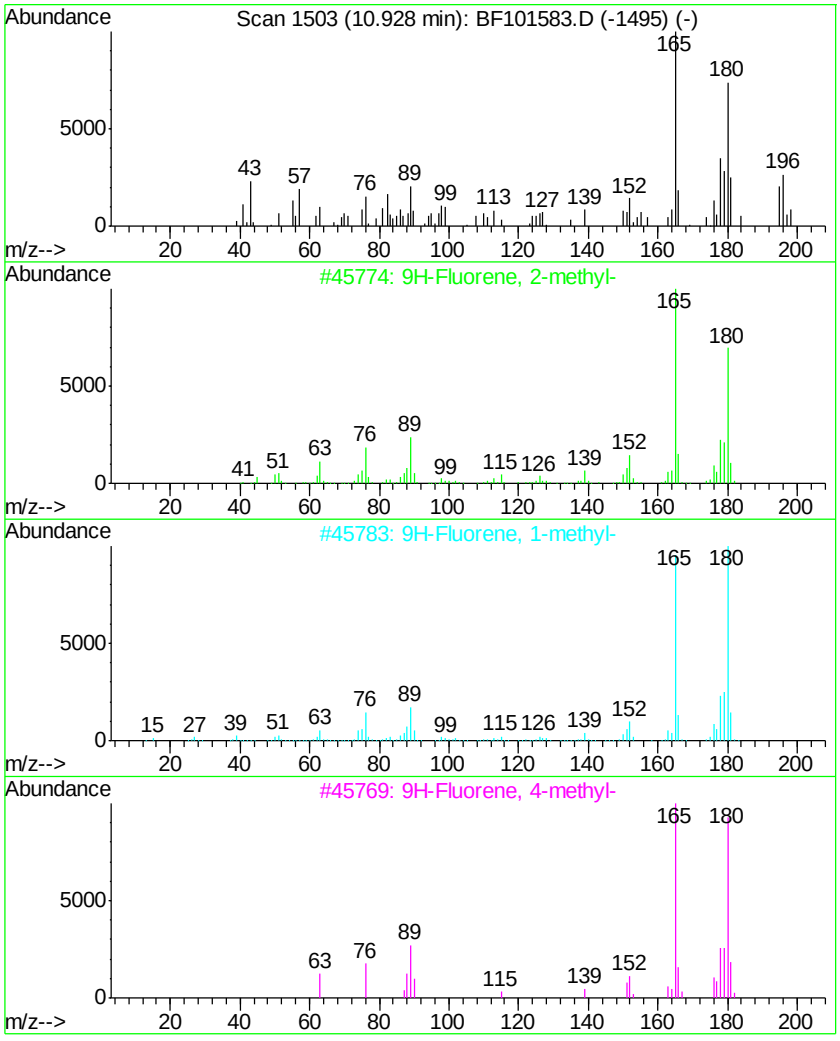
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

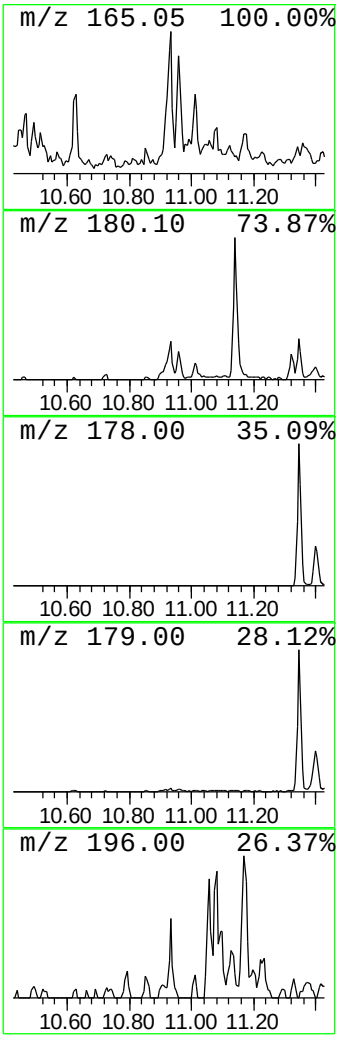
****

Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	2.29 ng	103887	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	78
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	78
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	78
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	60
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	60





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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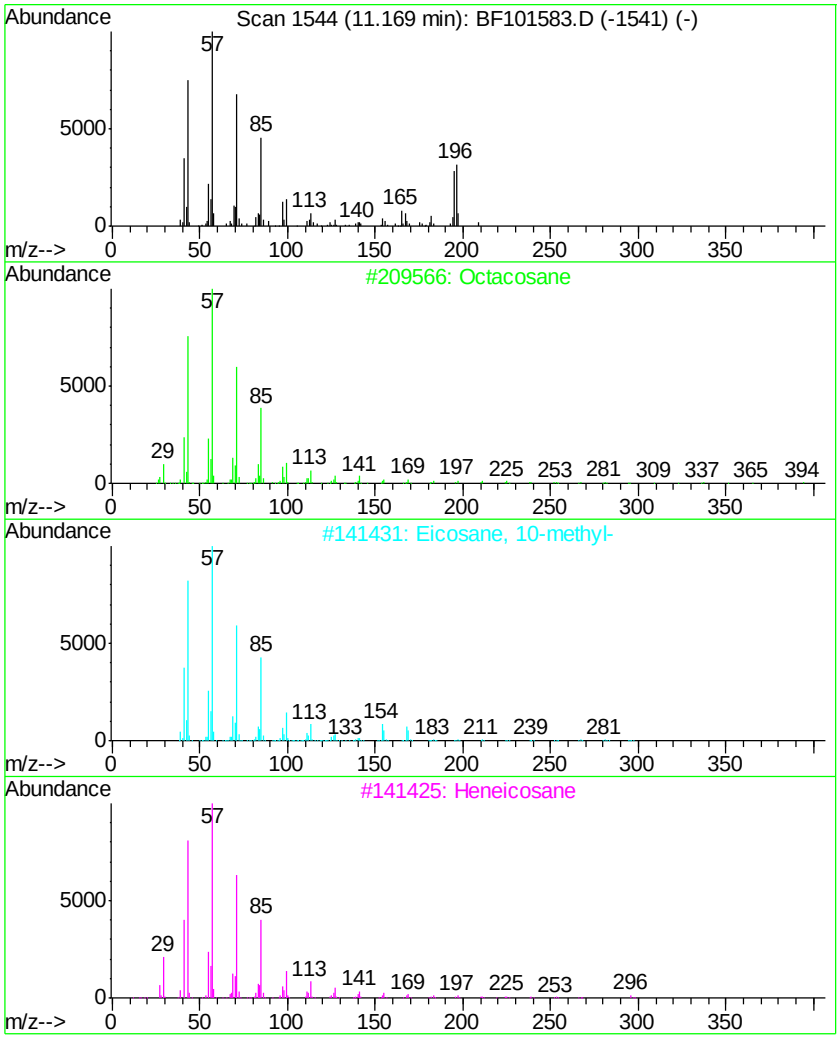
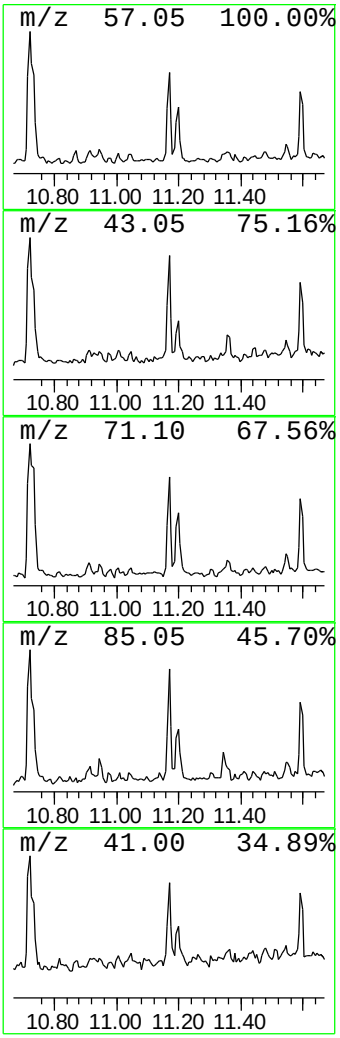
Peak Number 8 Octacosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.17	2.63 ng	119558	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	58
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	52
3	Heneicosane	296	C21H44	000629-94-7	52
4	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	52
5	Sulfurous acid, 2-propyl tridecy...	306	C16H34O3S	1000309-12-4	52





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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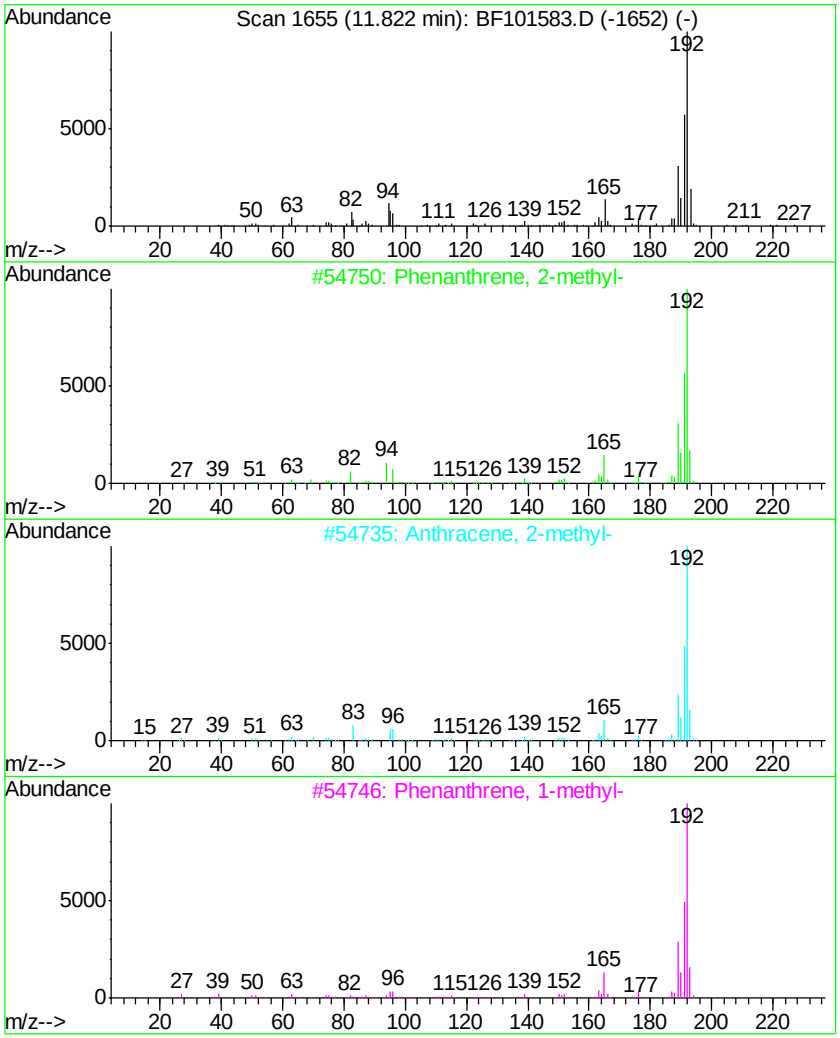
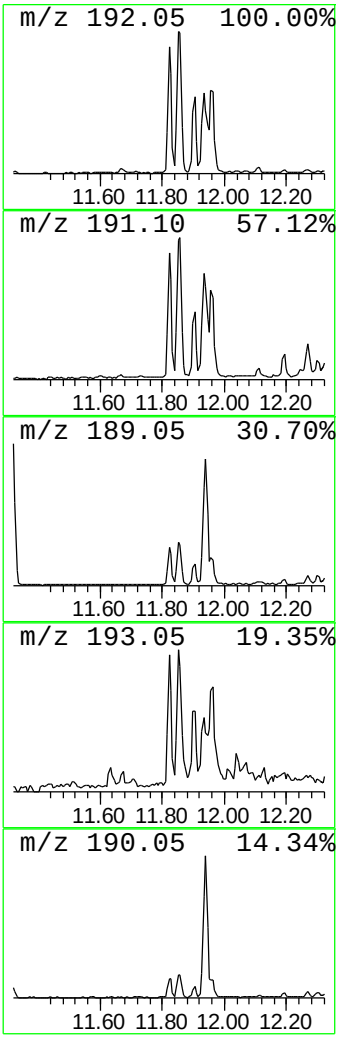
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	3.61 ng	163848	Phenanthrene-d10	11.32

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	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

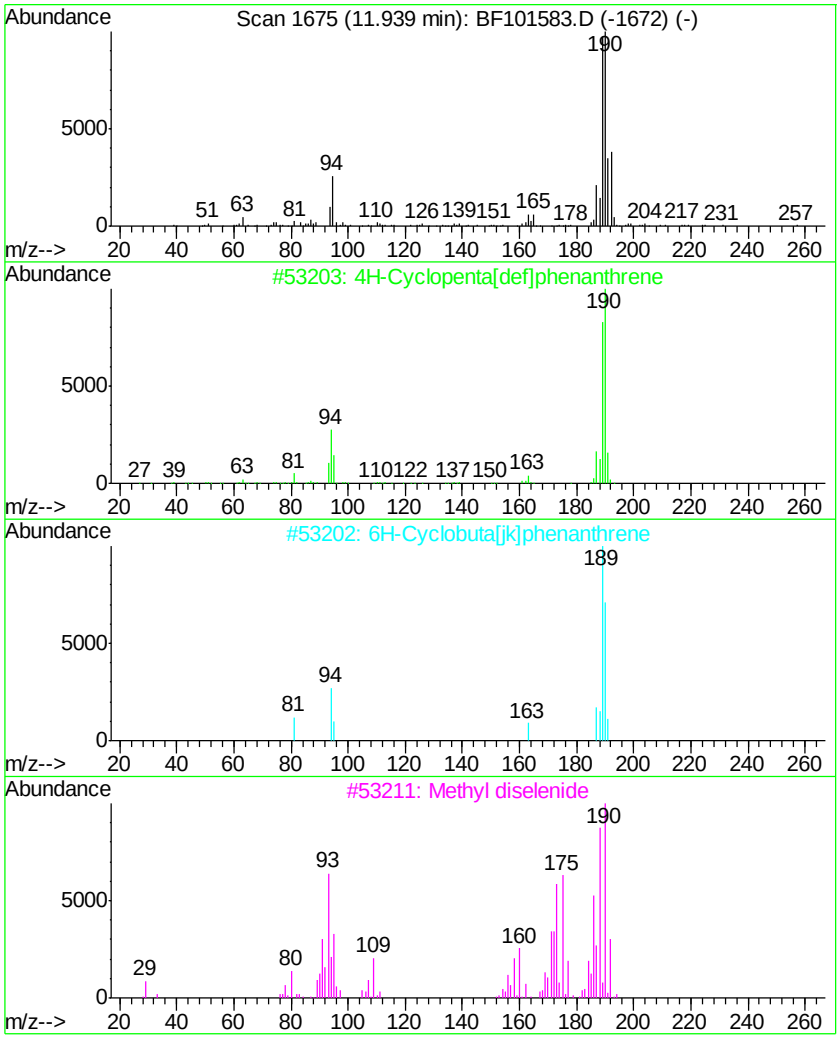
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

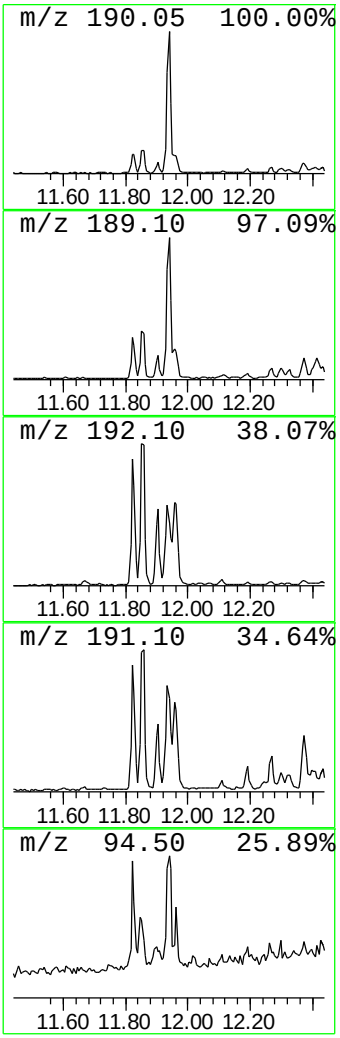
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	5.73 ng	260160	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
3	Methyl diselenide	190	C2H6Se2	007101-31-7	46
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
5	1-Aminocyclopentanecarboxylic ac...	297	C11H17Cl2NO4	1000329-17-6	17





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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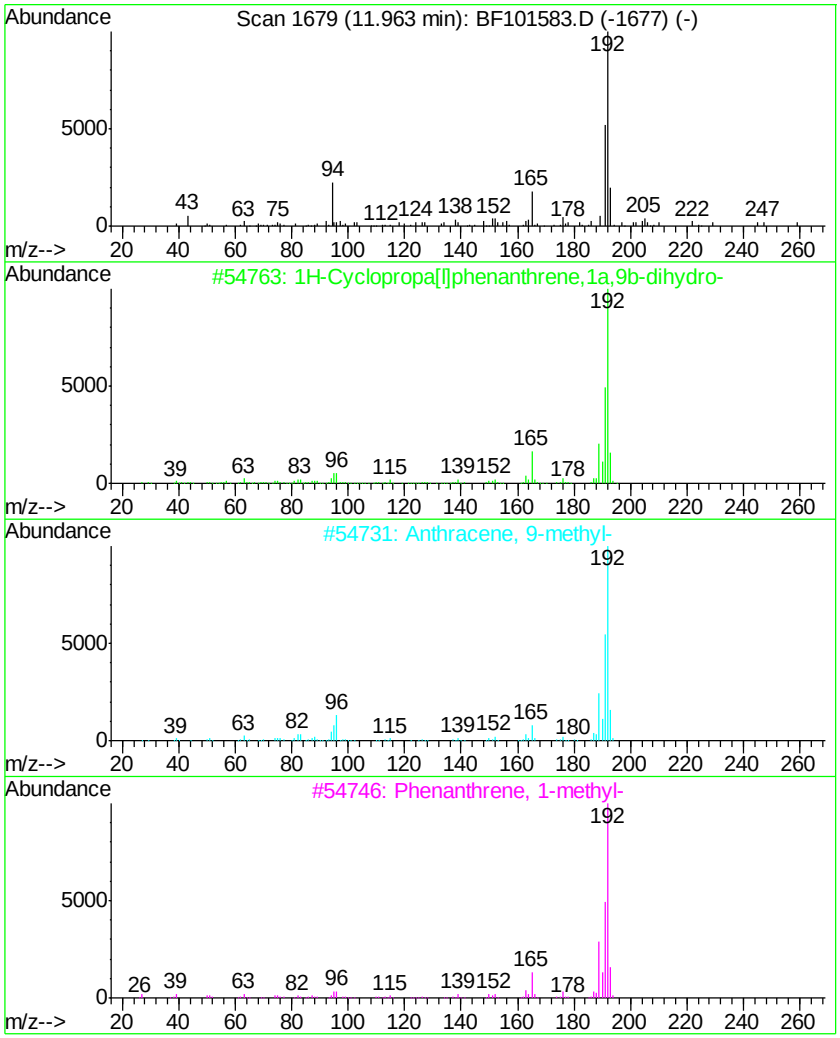
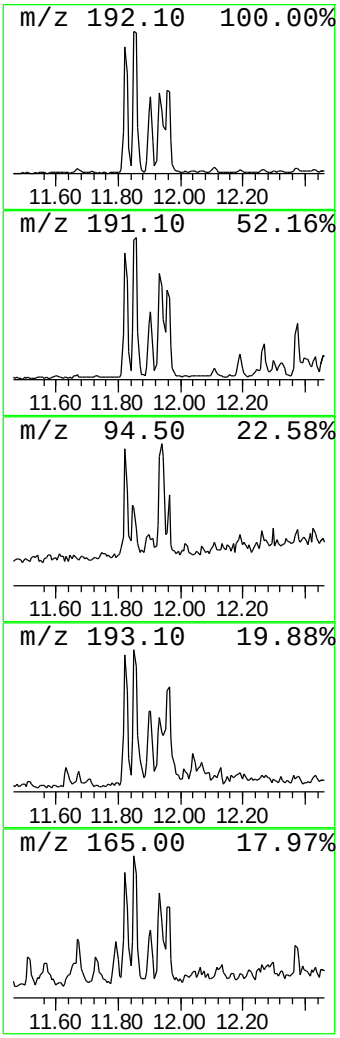
Peak Number 13 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	2.31 ng	104997	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	83
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	83
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83





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Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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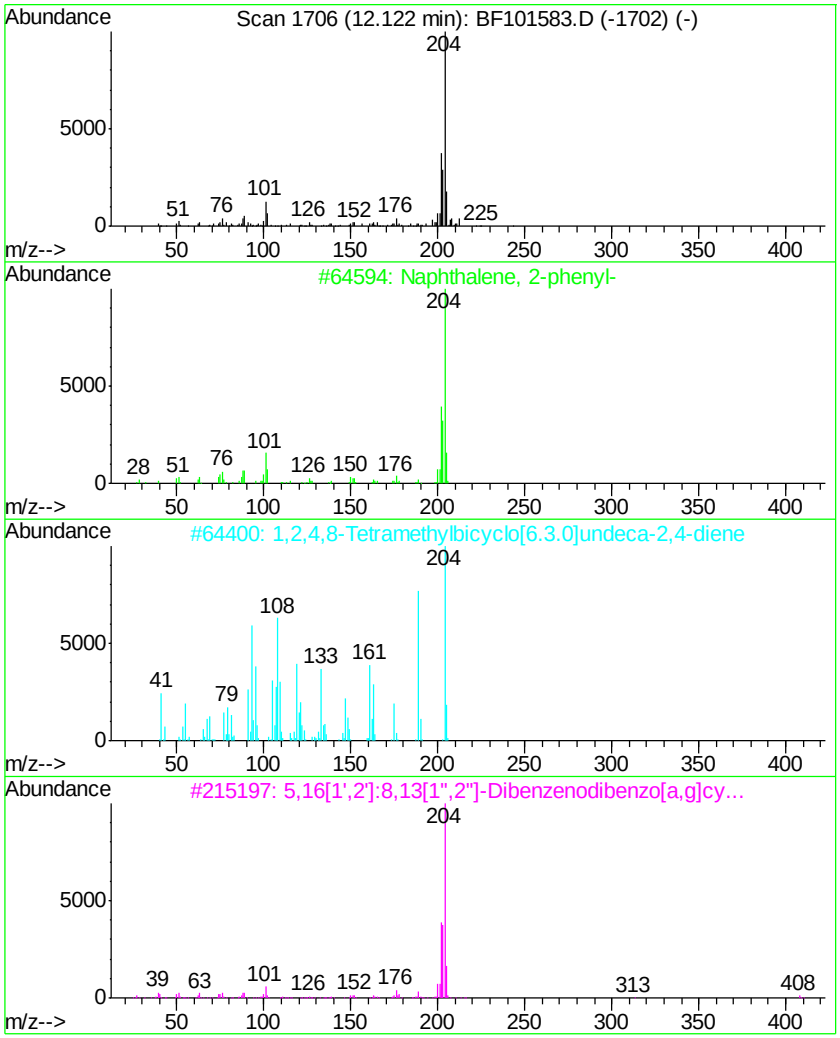
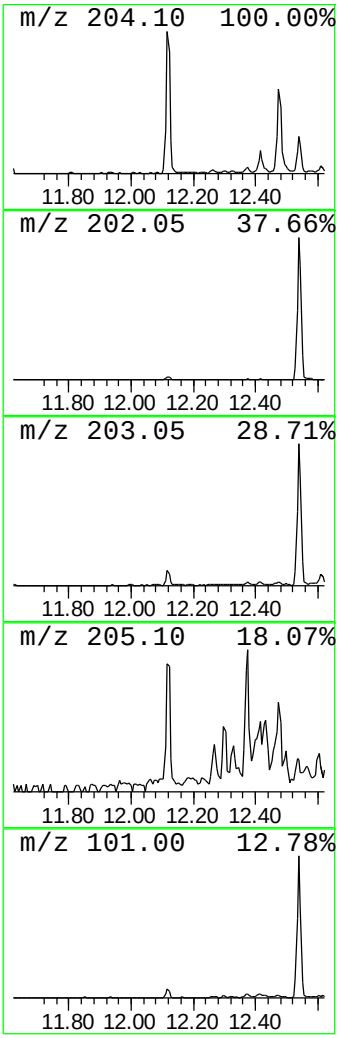
Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	2.51 ng	113773	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
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	83
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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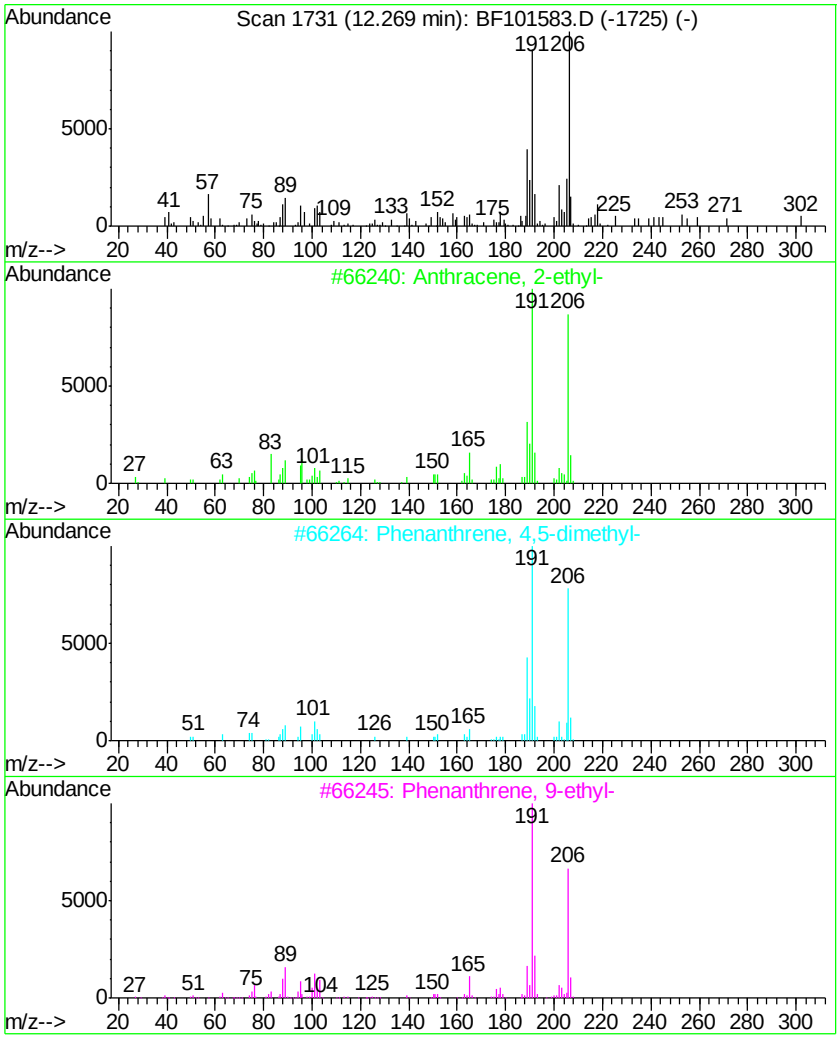
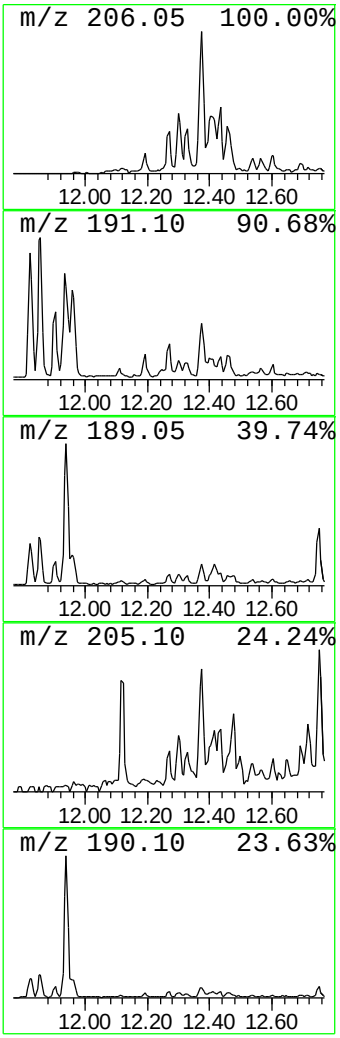
Peak Number 15 Anthracene, 2-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	2.25 ng	102067	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	92
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	83





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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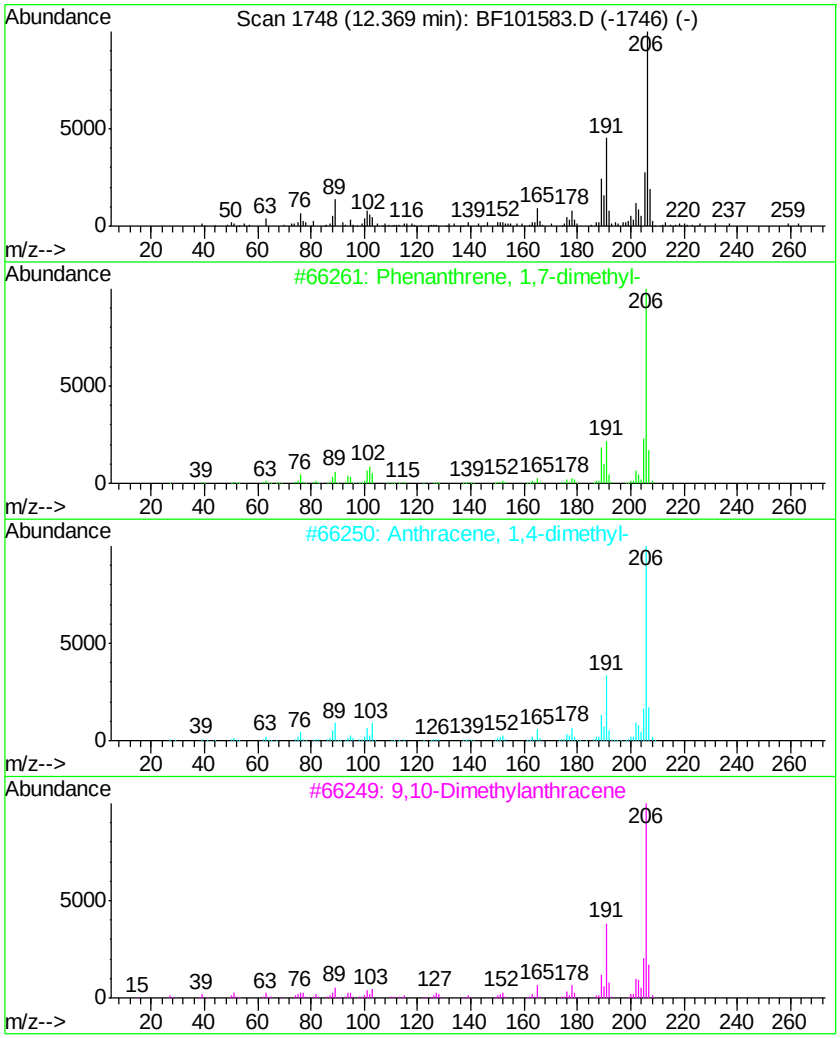
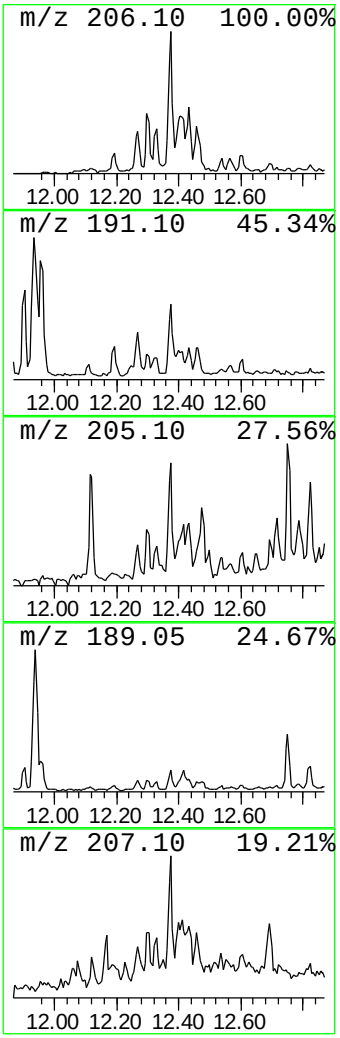
Peak Number 16 Phenanthrene, 1,7-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	2.30 ng	104563	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	89
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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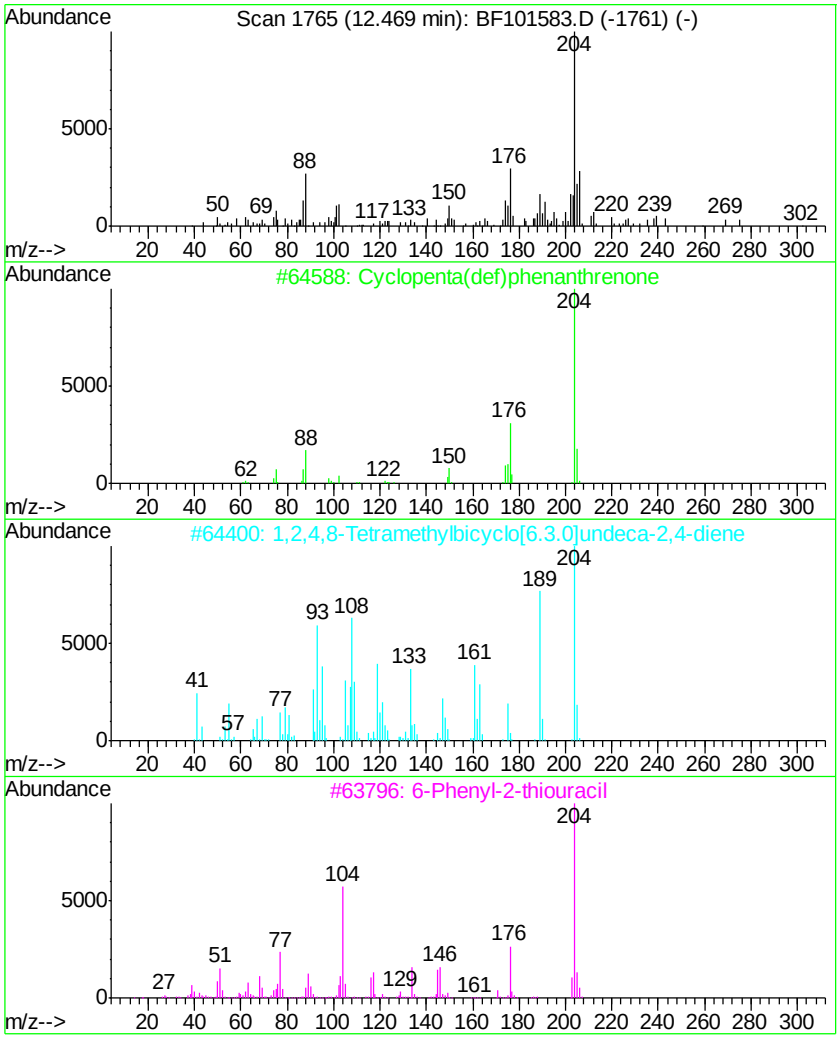
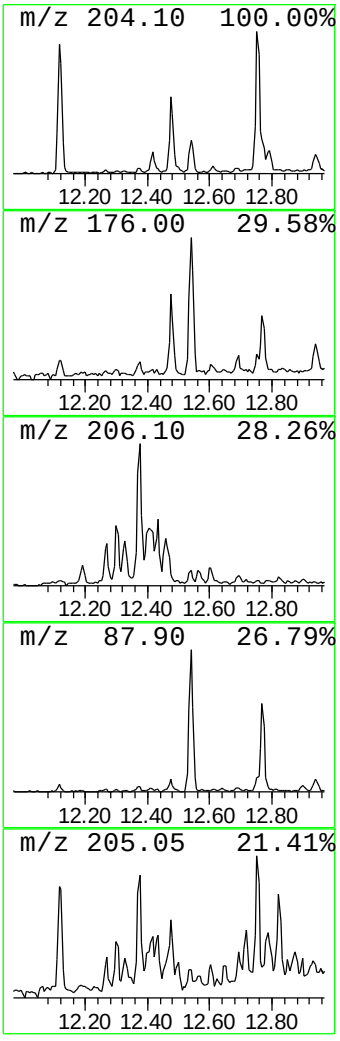
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	2.39 ng	108496	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
3	6-Phenyl-2-thiouracil	204	C10H8N2OS	005590-94-3	53
4	4,5,6,7-Tetrafluoro-2-methyl-1H-...	204	C8H4F4N2	081430-75-3	53
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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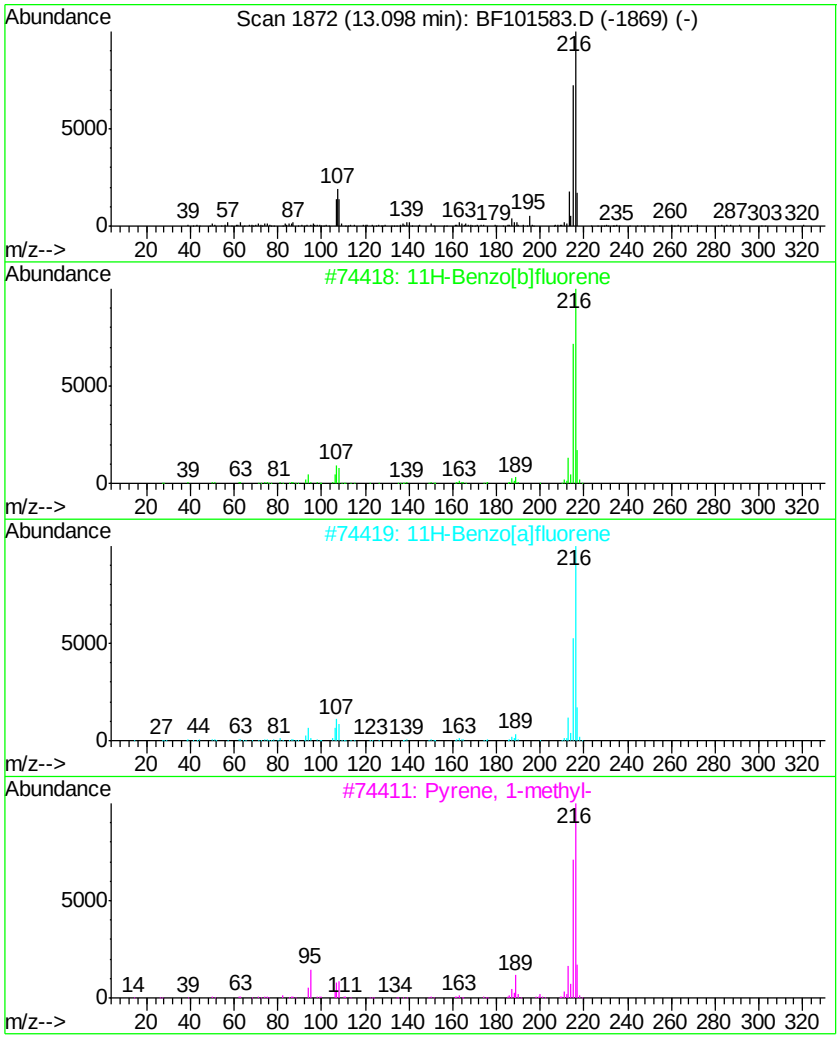
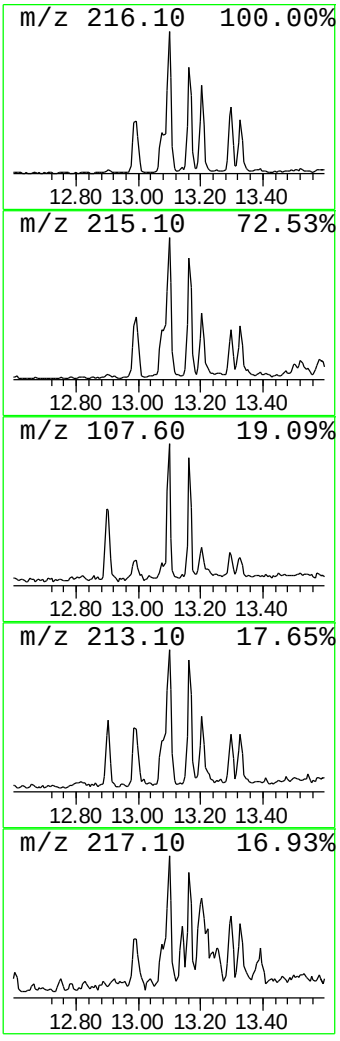
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	2.91 ng	240196	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	80





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Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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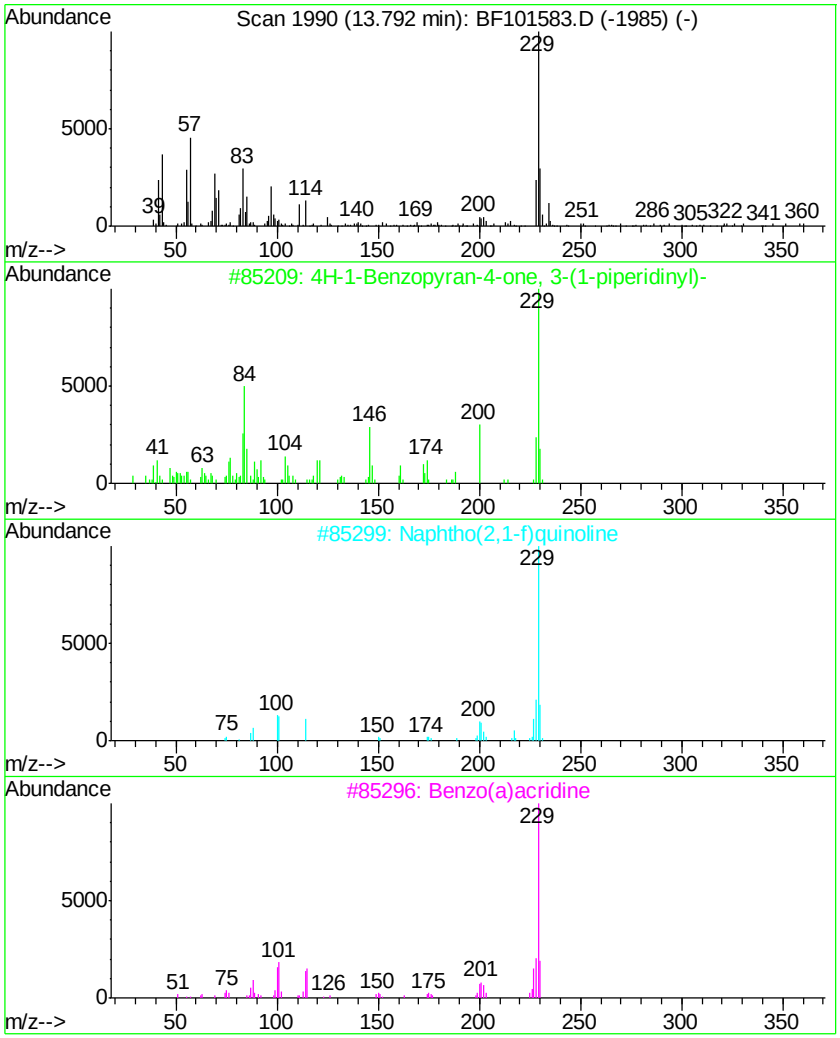
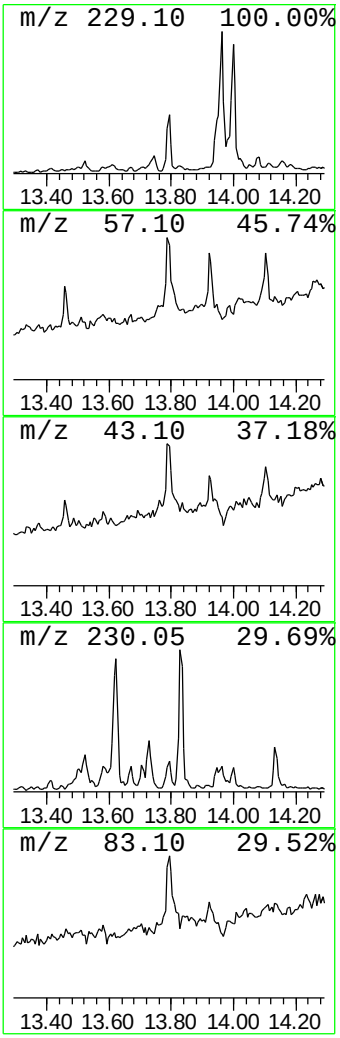
Peak Number 19 unknown13.79 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	4.47 ng	369409	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-1-Benzopyran-4-one, 3-(1-pipe...	229	C14H15NO2	040302-79-2	42
2	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	38
3	Benzo(a)acridine	229	C17H11N	000225-11-6	37
4	Benz[c]acridine	229	C17H11N	000225-51-4	25
5	1-Dichloromethyldimethylsilyloxy...	312	C14H30Cl2OSi	1000283-10-7	25





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Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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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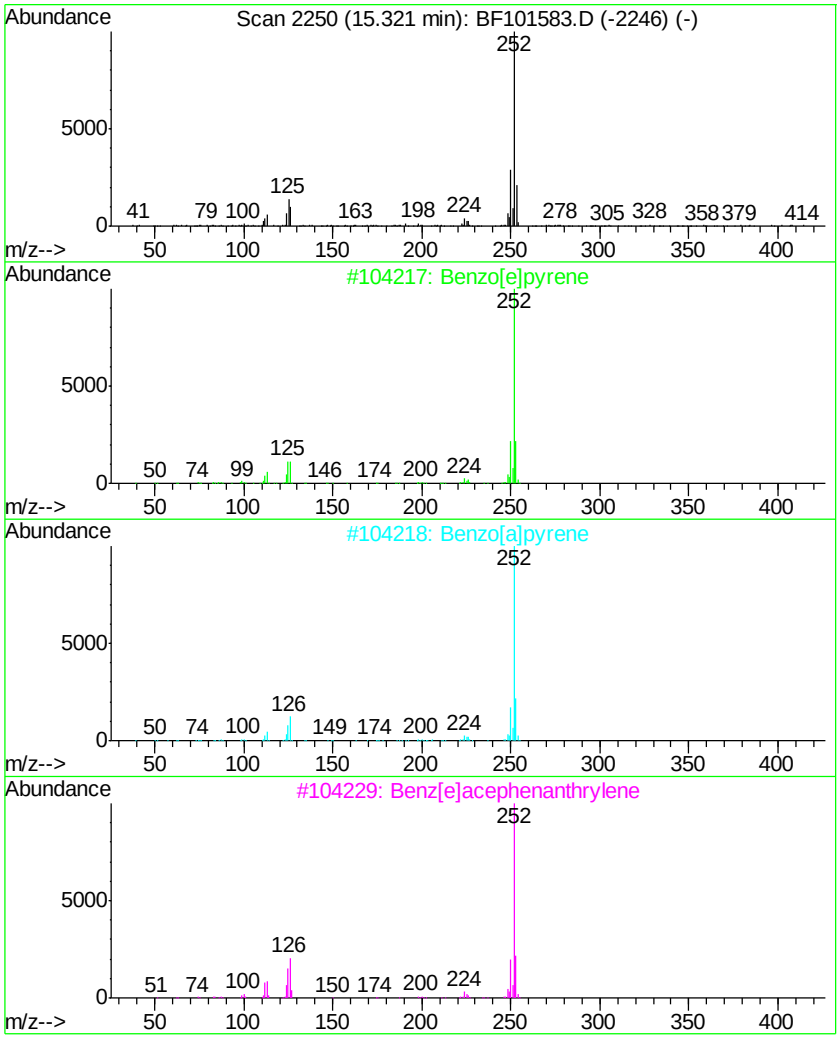
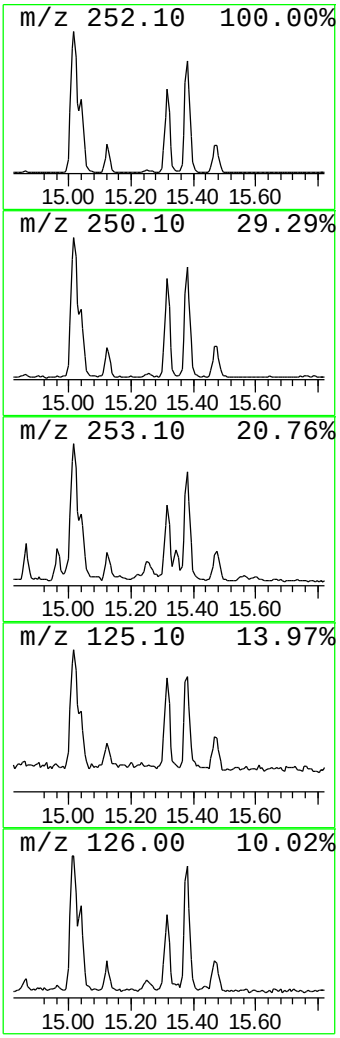
Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	14.16 ng	307443	Perylene-d12	15.44

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	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122017\
Data File : BF101583.D
Acq On : 20 Dec 2017 22:14
Operator : SJ/JU
Sample : I6981-04 2X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PHMHA-WCD

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.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
2-Pentanone, 4-hy...	5.00	5.0	ng	232910	1	6.79	938757	20.0
unknown6.56	6.56	39.0	ng	1829950	1	6.79	938757	20.0
Dodecane	10.25	2.7	ng	152356	3	9.83	1130660	20.0
Hexadecane	10.72	4.1	ng	188034	4	11.32	908091	20.0
9H-Fluorene, 2-me...	10.93	2.3	ng	103887	4	11.32	908091	20.0
Octacosane	11.17	2.6	ng	119558	4	11.32	908091	20.0
Phenanthrene, 2-m...	11.82	3.6	ng	163848	4	11.32	908091	20.0
4H-Cyclopenta[def...	11.94	5.7	ng	260160	4	11.32	908091	20.0
1H-Cyclopropa[l]p...	11.96	2.3	ng	104997	4	11.32	908091	20.0
Naphthalene, 2-ph...	12.12	2.5	ng	113773	4	11.32	908091	20.0
Anthracene, 2-ethyl-	12.27	2.3	ng	102067	4	11.32	908091	20.0
Phenanthrene, 1,7...	12.37	2.3	ng	104563	4	11.32	908091	20.0
Cyclopenta(def)ph...	12.47	2.4	ng	108496	4	11.32	908091	20.0
11H-Benzo[b]fluorene	13.10	2.9	ng	240196	5	13.97	1651980	20.0
unknown13.79	13.79	4.5	ng	369409	5	13.97	1651980	20.0
Benzo[e]pyrene	15.32	14.2	ng	307443	6	15.44	434379	20.0