LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012918\
Data File : BF102611.D
Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

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-BF012218.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	4.916	477	481	492	rBV	109310	159344	4.20%	0.327%
2	5.328	547	551	569	rBV	3461559	3795587	100.00%	7.800%
3	6.363	722	727	744	rBV	3278997	3711601	97.79%	7.628%
4	6.487	744	748	751	rBV	3807093	3591776	94.63%	7.382%
5	6.710	783	786	801	rBV	1136422	990544	26.10%	2.036%
6	6.869	809	813	816	rBV	3097814	2715589	71.55%	5.581%
7	7.281	879	883	896	rBV	2234003	2390898	62.99%	4.914%
8	7.998	1001	1005	1021	rVB	1282920	1401450	36.92%	2.880%
9	9.069	1183	1187	1197	rBV	3691778	3478609	91.65%	7.149%
10	9.404	1237	1244	1248	rBV4	32797	50479	1.33%	0.104%
11	9.469	1251	1255	1262	rVB	335838	370170	9.75%	0.761%
12	9.610	1275	1279	1286	rBV	259382	241840	6.37%	0.497%
13	9.675	1286	1290	1294	rVB	156213	127326	3.35%	0.262%
14	9.745	1298	1302	1306	rVV	1468765	1430222	37.68%	2.939%
15	9.781	1306	1308	1313	rVB	63548	58798	1.55%	0.121%
16	9.904	1324	1329	1332	rBV4	26608	39612	1.04%	0.081%
17	9.957	1335	1338	1341	rVV3	60550	67220	1.77%	0.138%
18	9.992	1341	1344	1348	rVB3	58848	55936	1.47%	0.115%
19	10.145	1367	1370	1372	rBV	58284	57243	1.51%	0.118%
20	10.175	1372	1375	1377	rVB	192553	169679	4.47%	0.349%
21	10.298	1393	1396	1401	rVB	68792	70644	1.86%	0.145%
22	10.386	1408	1411	1418	rBV2	50258	81789	2.15%	0.168%
23	10.539	1434	1437	1448	rVV	1872300	1950765	51.40%	4.009%
24	10.645	1452	1455	1464	rVB	202897	257595	6.79%	0.529%
25	10.839	1484	1488	1492	rBV4	49556	85003	2.24%	0.175%
26	10.969	1506	1510	1512	rBV3	41755	46966	1.24%	0.097%
27	10.992	1512	1514	1520	rVV3	39027	51291	1.35%	0.105%
28	11.045	1520	1523	1527	rVV	86538	91755	2.42%	0.189%
29	11.092	1527	1531	1533	rVV2	171471	163762	4.31%	0.337%
30	11.128	1533	1537	1543	rVB3	73446	116079	3.06%	0.239%
31	11.233	1551	1555	1557	rBV	1390969	1206819	31.80%	2.480%
32	11.257	1557	1559	1563	rVV	1125902	954595	25.15%	1.962%
33	11.310	1565	1568	1571	rVV	236383	232685	6.13%	0.478%
34	11.333	1571	1572	1580	rVB5	66976	93598	2.47%	0.192%

LSC Area Percent Report

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Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

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-BF012218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.475	1591	1596	1601	rBV2	126401	176235	4.64%	0.362%
36	11.522	1601	1604	1607	rVV2	89511	107580	2.83%	0.221%
37	11.575	1610	1613	1617	rVB4	33546	47290	1.25%	0.097%
38	11.733	1637	1640	1643	rBV	189653	173198	4.56%	0.356%
39	11.763	1643	1645	1649	rVB	248040	212605	5.60%	0.437%
40	11.810	1650	1653	1656	rBV	69338	61367	1.62%	0.126%
41	11.845	1656	1659	1662	rVV	262924	299656	7.89%	0.616%
42	11.869	1662	1663	1669	rVB	155891	111507	2.94%	0.229%
43	11.922	1669	1672	1675	rBV2	67409	78390	2.07%	0.161%
44	12.027	1688	1690	1693	rBV	109159	100640	2.65%	0.207%
45	12.069	1693	1697	1701	rVB	130976	139913	3.69%	0.288%
46	12.180	1711	1716	1719	rBV2	53885	75463	1.99%	0.155%
47	12.210	1719	1721	1723	rVB	57673	41900	1.10%	0.086%
48	12.286	1730	1734	1736	rBV	157266	161551	4.26%	0.332%
49	12.322	1736	1740	1742	rVV3	103431	148276	3.91%	0.305%
50	12.374	1745	1749	1753	rVV2	150229	166015	4.37%	0.341%
51	12.451	1758	1762	1765	rBV	1616429	1491412	39.29%	3.065%
52	12.545	1775	1778	1781	rVB	126027	103605	2.73%	0.213%
53	12.598	1783	1787	1789	rBV3	70840	84096	2.22%	0.173%
54	12.627	1789	1792	1795	rVB4	46406	48441	1.28%	0.100%
55	12.680	1795	1801	1806	rBV	1436191	1540690	40.59%	3.166%
56	12.727	1806	1809	1813	rVB2	88077	104547	2.75%	0.215%
57	12.816	1817	1824	1828	rBV	2332203	2467221	65.00%	5.070%
58	12.898	1833	1838	1842	rBV2	121524	201420	5.31%	0.414%
59	13.004	1849	1856	1859	rBV2	171112	308935	8.14%	0.635%
60	13.039	1859	1862	1865	rBV3	52883	73272	1.93%	0.151%
61	13.074	1865	1868	1870	rBV	61989	59055	1.56%	0.121%
62	13.110	1870	1874	1877	rVV2	161133	166756	4.39%	0.343%
63	13.204	1887	1890	1892	rBV	118855	102652	2.70%	0.211%
64	13.233	1892	1895	1898	rBV	115763	108246	2.85%	0.222%
65	13.386	1918	1921	1922	rBV3	49637	51117	1.35%	0.105%
66	13.521	1940	1944	1950	rVB	200910	205328	5.41%	0.422%
67	13.627	1958	1962	1964	rBV	178726	185055	4.88%	0.380%
68	13.651	1964	1966	1968	rVV	154450	116924	3.08%	0.240%
69	13.674	1968	1970	1974	rVV2	107904	155564	4.10%	0.320%
70	13.716	1974	1977	1987	rVB2	357161	651029	17.15%	1.338%
71	13.874	1996	2004	2007	rBV2	1284309	2091301	55.10%	4.298%

LSC Area Percent Report

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Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

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:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.904	2007	2009	2012	rVB	761034	615462	16.22%	1.265%
73	13.980	2020	2022	2024	rVB	66804	48798	1.29%	0.100%
74	14.027	2028	2030	2032	rBV	118818	114554	3.02%	0.235%
75	14.227	2061	2064	2066	rBV	76415	80170	2.11%	0.165%
76	14.263	2068	2070	2073	rVB	180488	154936	4.08%	0.318%
77	14.298	2073	2076	2078	rBV	90958	86835	2.29%	0.178%
78	14.386	2089	2091	2093	rBV	79269	65855	1.74%	0.135%
79	14.745	2149	2152	2155	rBV2	98230	109380	2.88%	0.225%
80	14.904	2174	2179	2181	rBV	727300	992713	26.15%	2.040%
81	15.004	2193	2196	2200	rBV	178210	185886	4.90%	0.382%
82	15.192	2224	2228	2233	rVB	437515	535223	14.10%	1.100%
83	15.251	2234	2238	2243	rVV	602287	732251	19.29%	1.505%
84	15.310	2244	2248	2251	rVV	738029	914080	24.08%	1.879%
85	15.339	2251	2253	2259	rVB2	197839	242138	6.38%	0.498%
86	16.715	2481	2487	2495	rVB	294028	568745	14.98%	1.169%
87	17.139	2554	2559	2569	rVB	230358	486459	12.82%	1.000%

Sum of corrected areas: 48659006

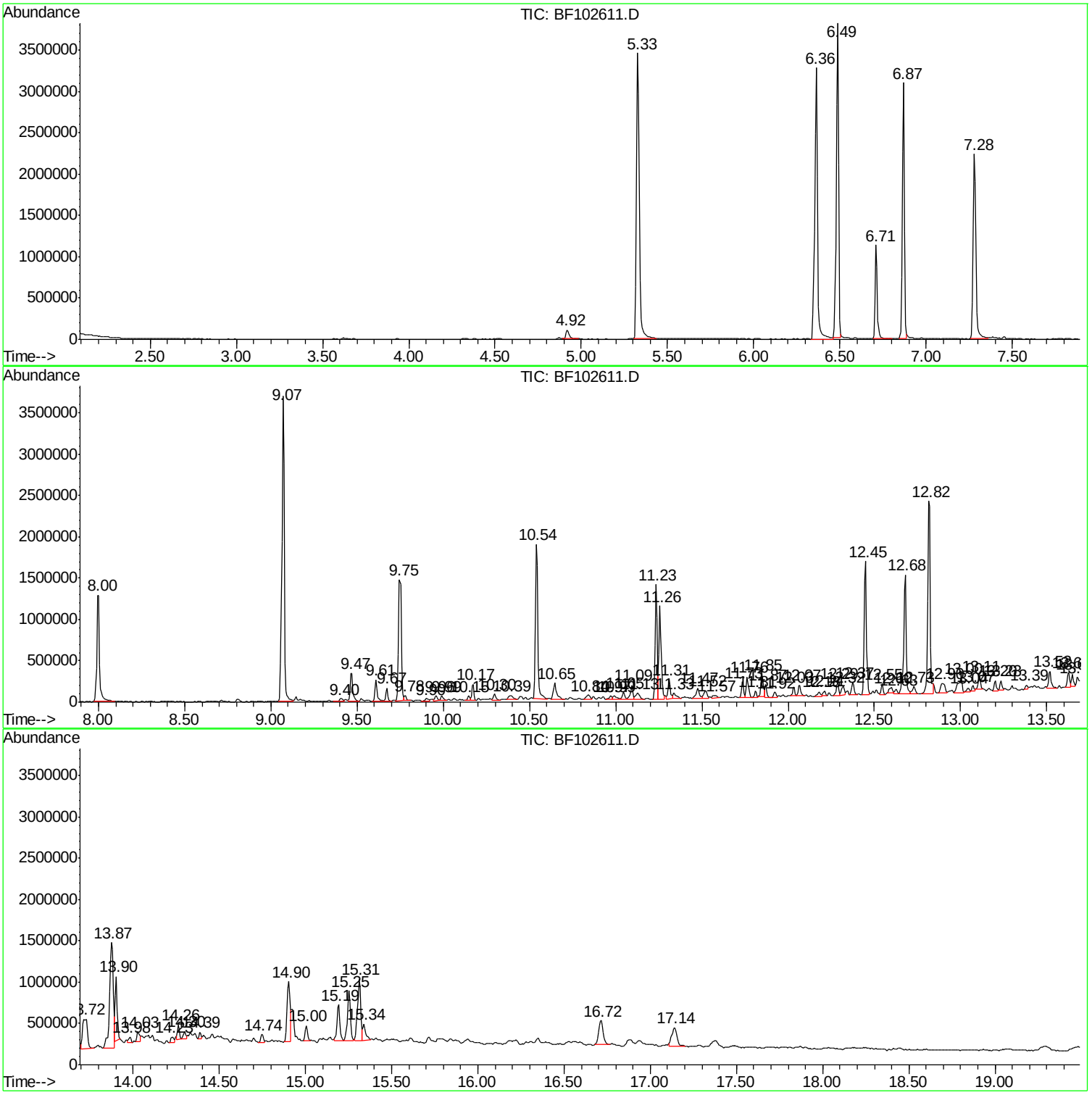
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012918\
Data File : BF102611.D
Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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\BF012918\
Data File : BF102611.D
Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

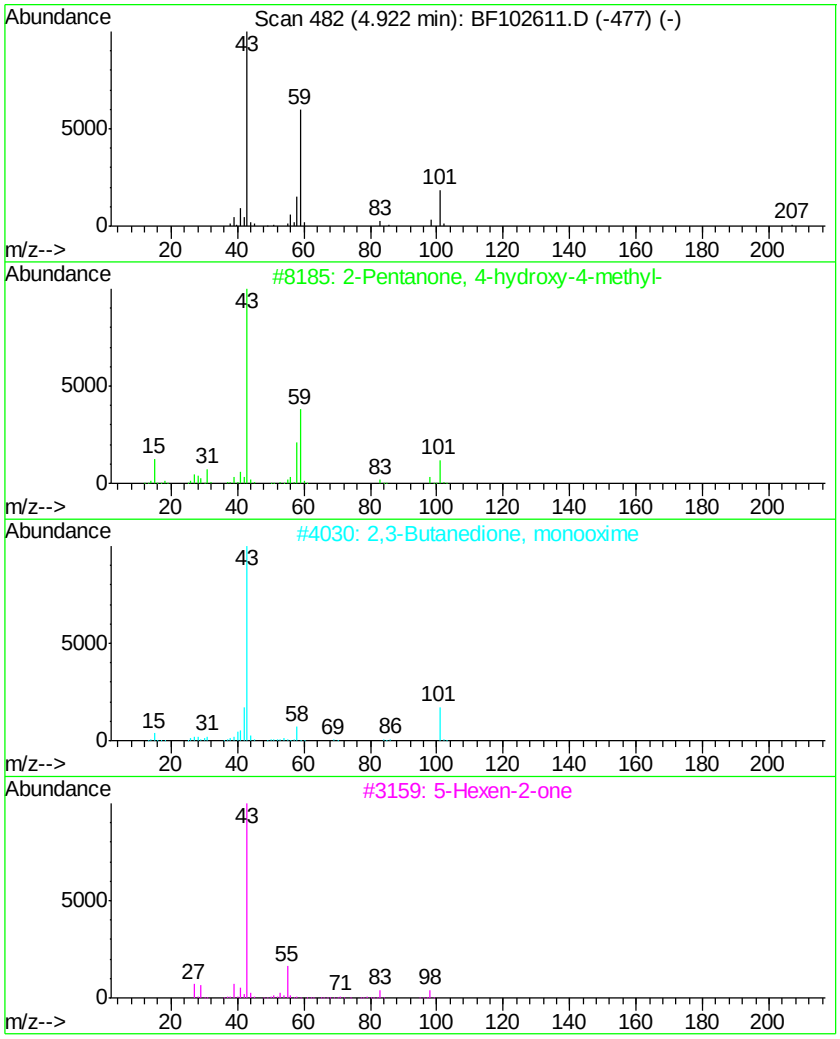
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

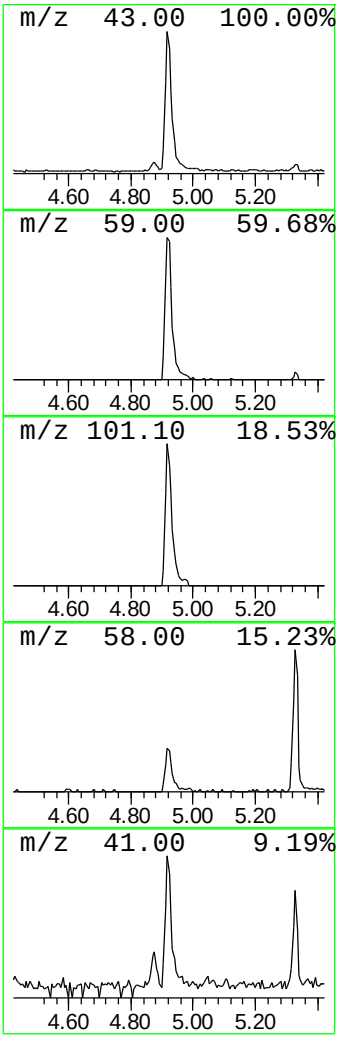
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.92	3.22 ng	159344	1,4-Dichlorobenzene-d4	6.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
3	5-Hexen-2-one	98	C6H10O	000109-49-9	9
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	Thiocyanic acid, propyl ester	101	C4H7NS	004251-16-5	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012918\
Data File : BF102611.D
Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

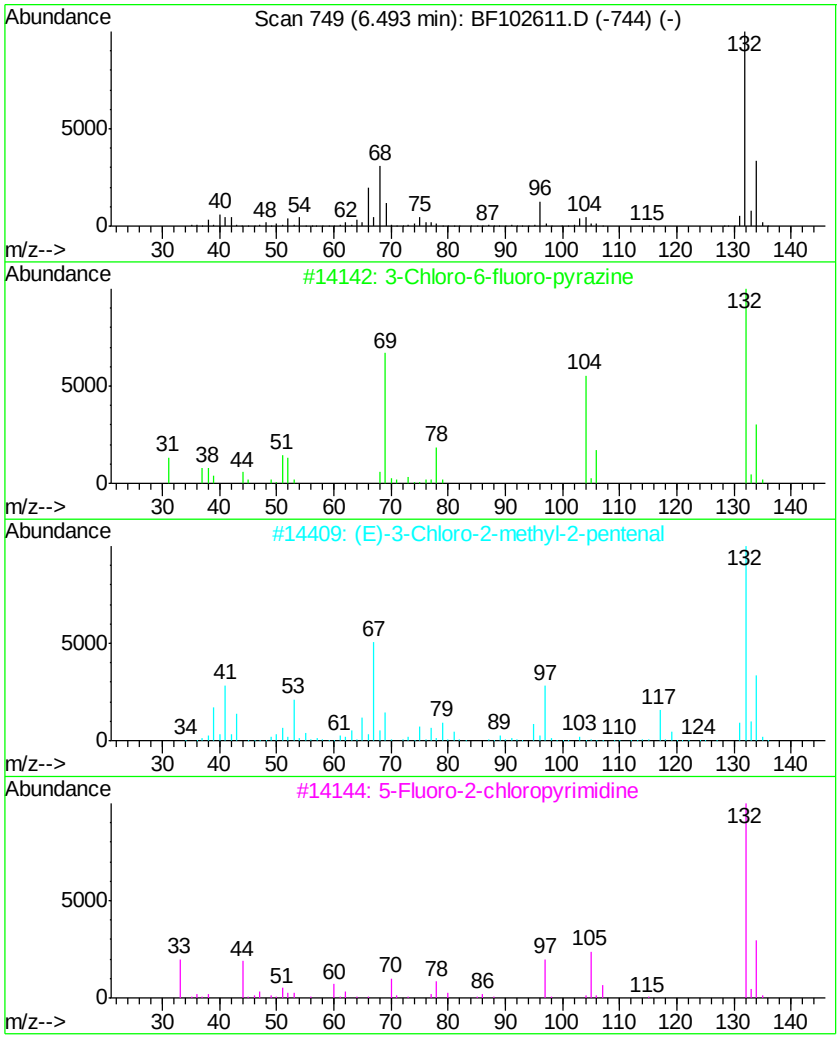
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

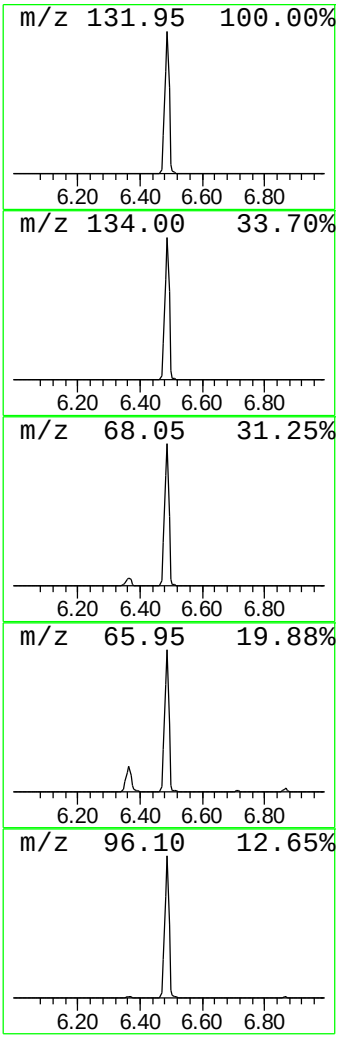
****

Peak Number 2 unknown6.49 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.49	72.52 ng	3591780	1,4-Dichlorobenzene-d4	6.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012918\
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Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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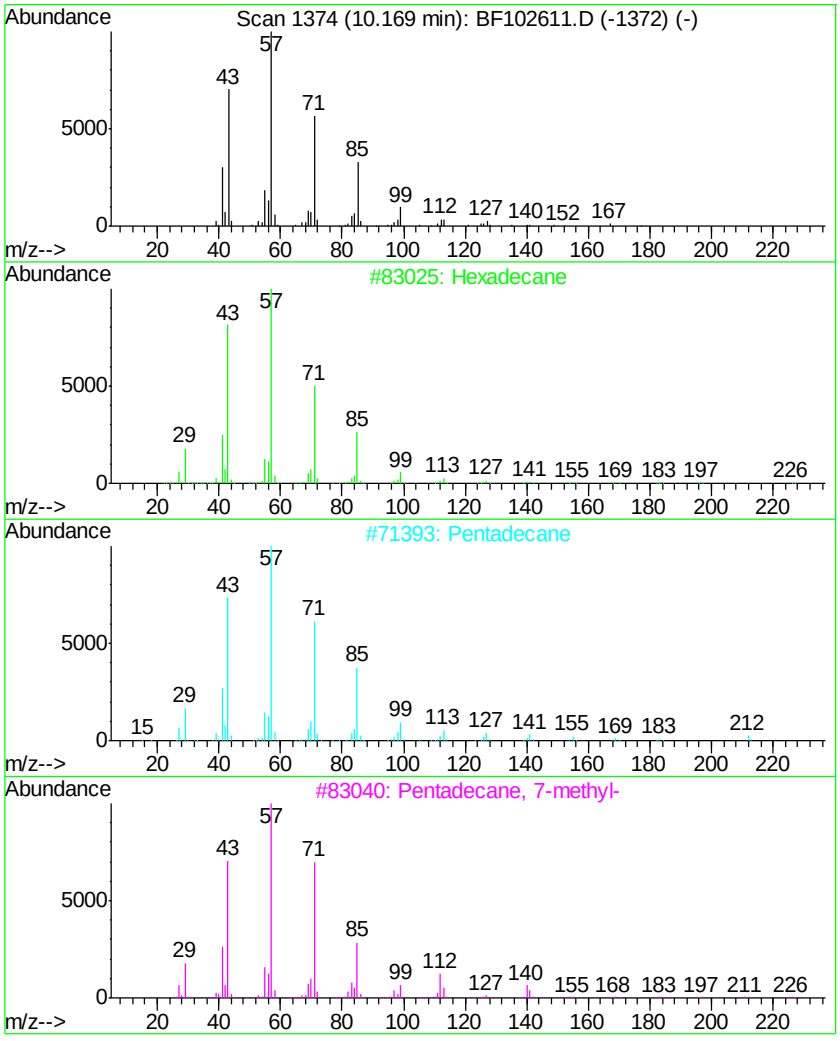
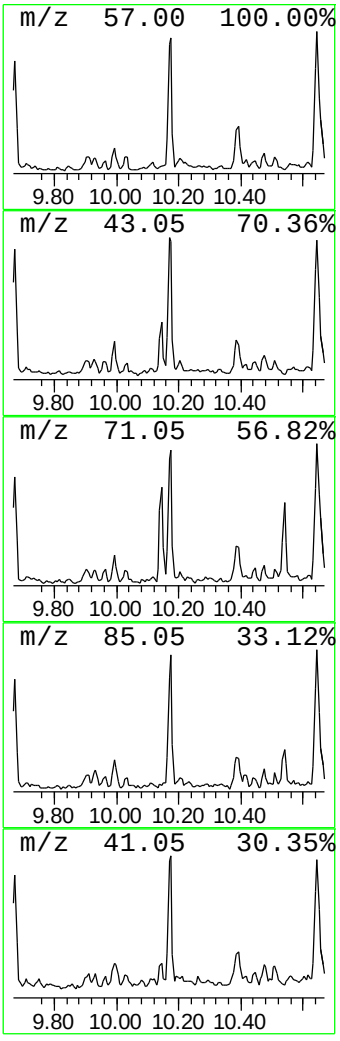
Peak Number 4 Hexadecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.17	2.37 ng	169679	Acenaphthene-d10	9.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	97
2	Pentadecane	212	C15H32	000629-62-9	90
3	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	87
4	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	80
5	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	80





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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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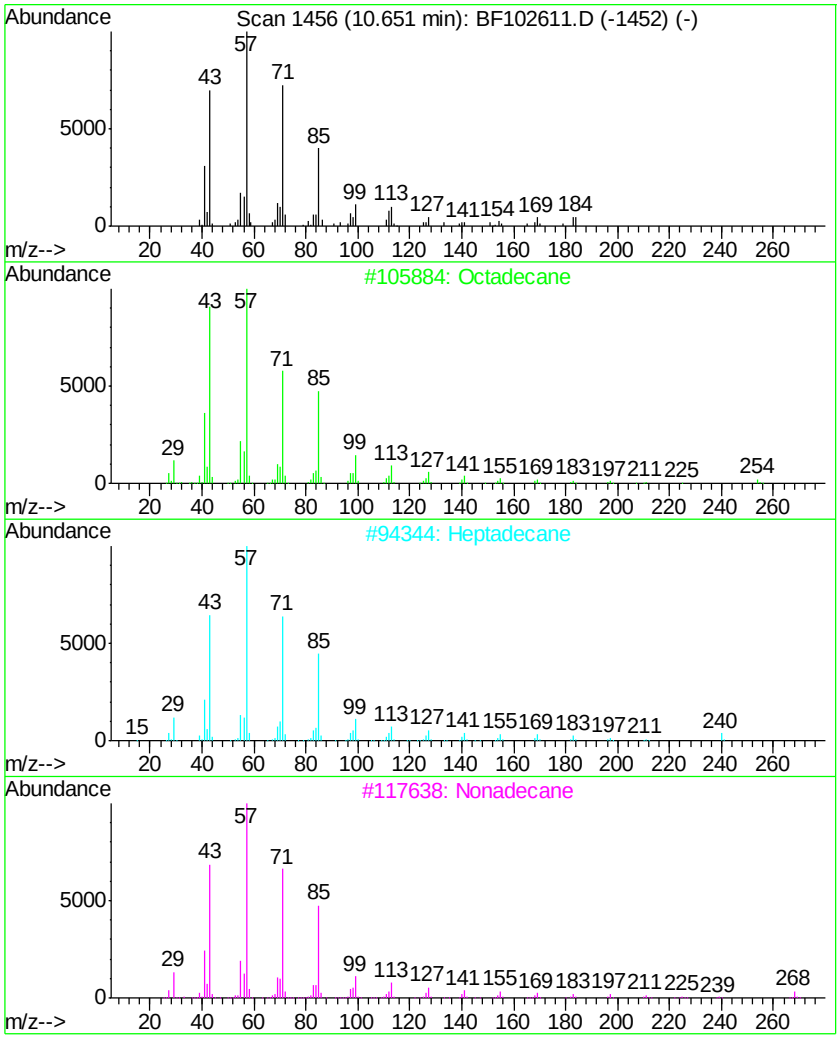
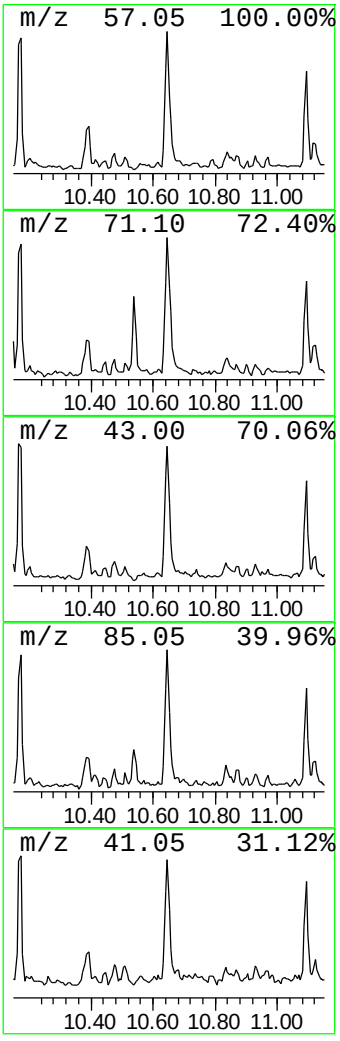
Peak Number 5 Octadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.65	4.27 ng	257595	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	91
2	Heptadecane	240	C17H36	000629-78-7	90
3	Nonadecane	268	C19H40	000629-92-5	90
4	Tridecane	184	C13H28	000629-50-5	86
5	Eicosane	282	C20H42	000112-95-8	86





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012918\
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Acq On : 29 Jan 2018 21:44
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Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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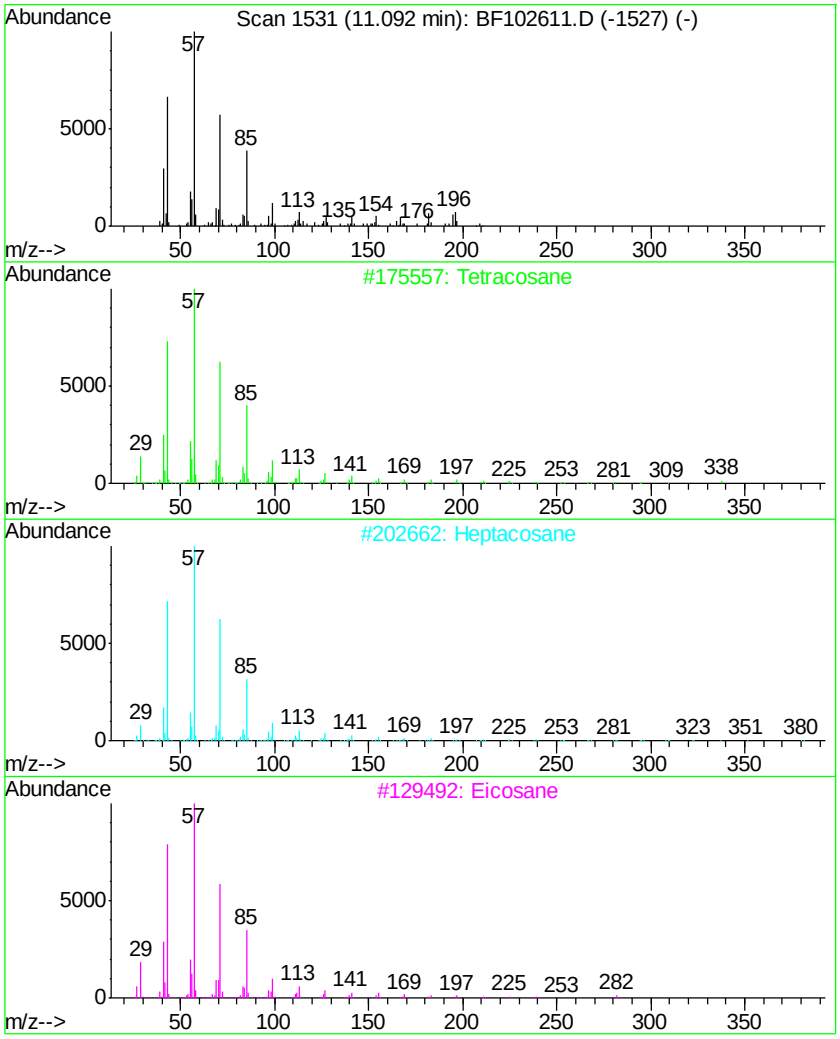
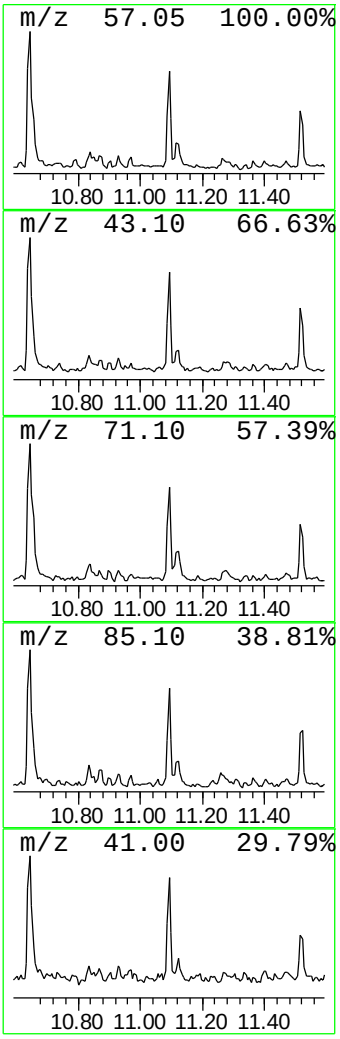
Peak Number 6 Tetracosane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.09	2.71 ng	163762	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	74
2	Heptacosane	380	C27H56	000593-49-7	74
3	Eicosane	282	C20H42	000112-95-8	72
4	Pentadecane	212	C15H32	000629-62-9	72
5	2-Bromotetradecane	276	C14H29Br	074036-95-6	72





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012918\
Data File : BF102611.D
Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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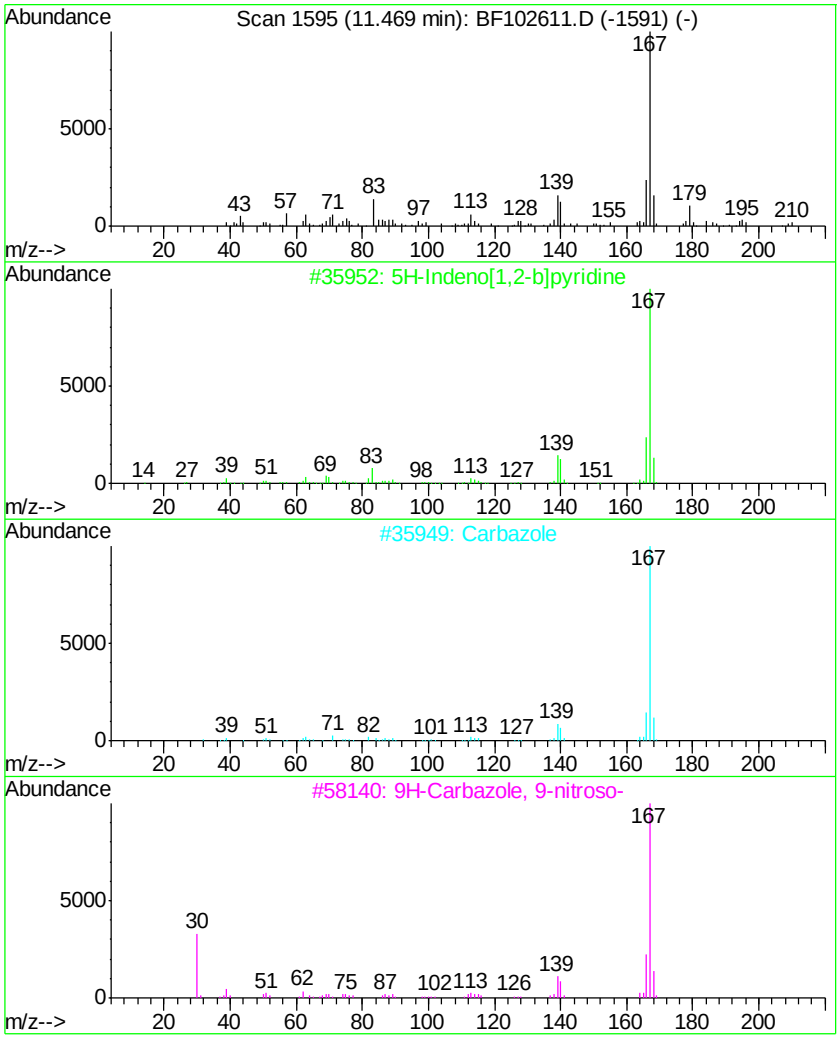
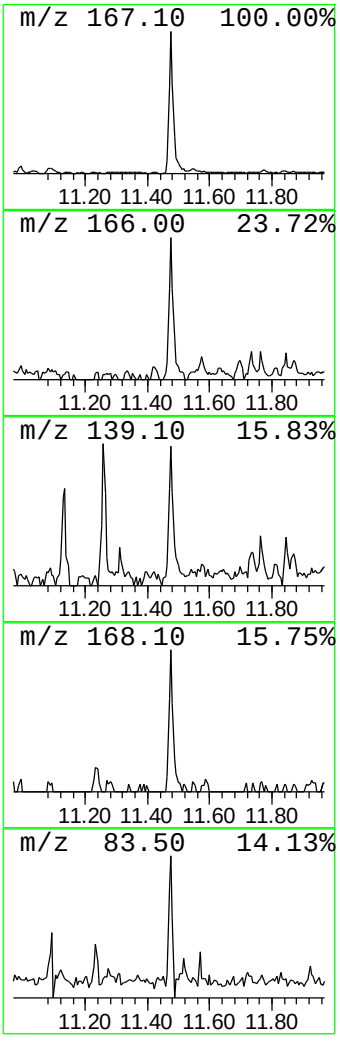
Peak Number 7 5H-Indeno[1,2-b]pyridine Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.47	2.92 ng	176235	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	90
2	Carbazole	167	C12H9N	000086-74-8	87
3	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	86
4	D-Galactitol, 2-(acetylmethylami...	363	C16H29NO8	074410-42-7	80
5	9H-Carbazole-9-methanol	197	C13H11NO	002409-36-1	80





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Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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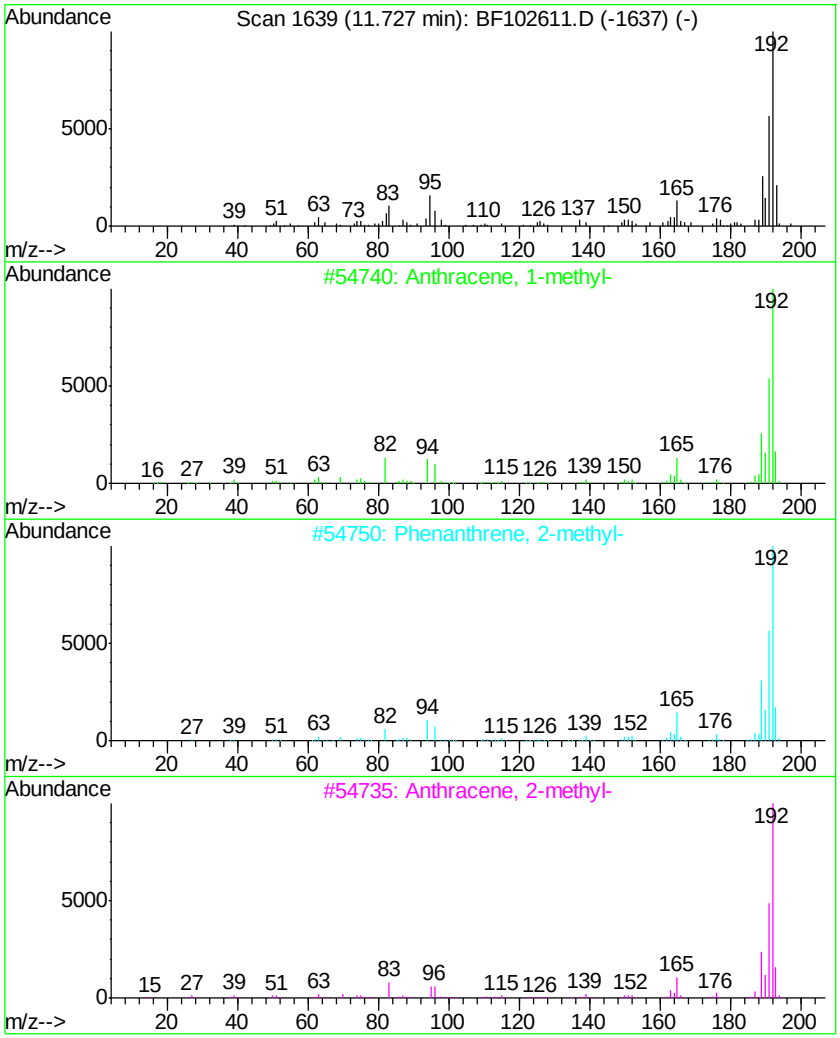
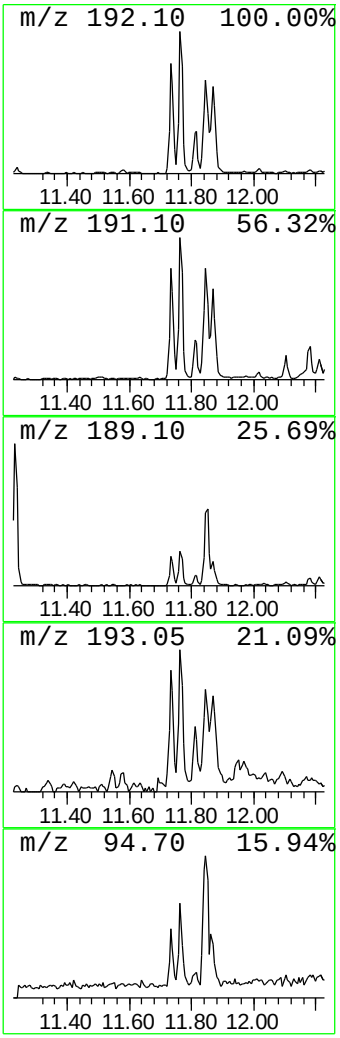
Peak Number 8 Anthracene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.73	2.87 ng	173198	Phenanthrene-d10	11.23

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





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Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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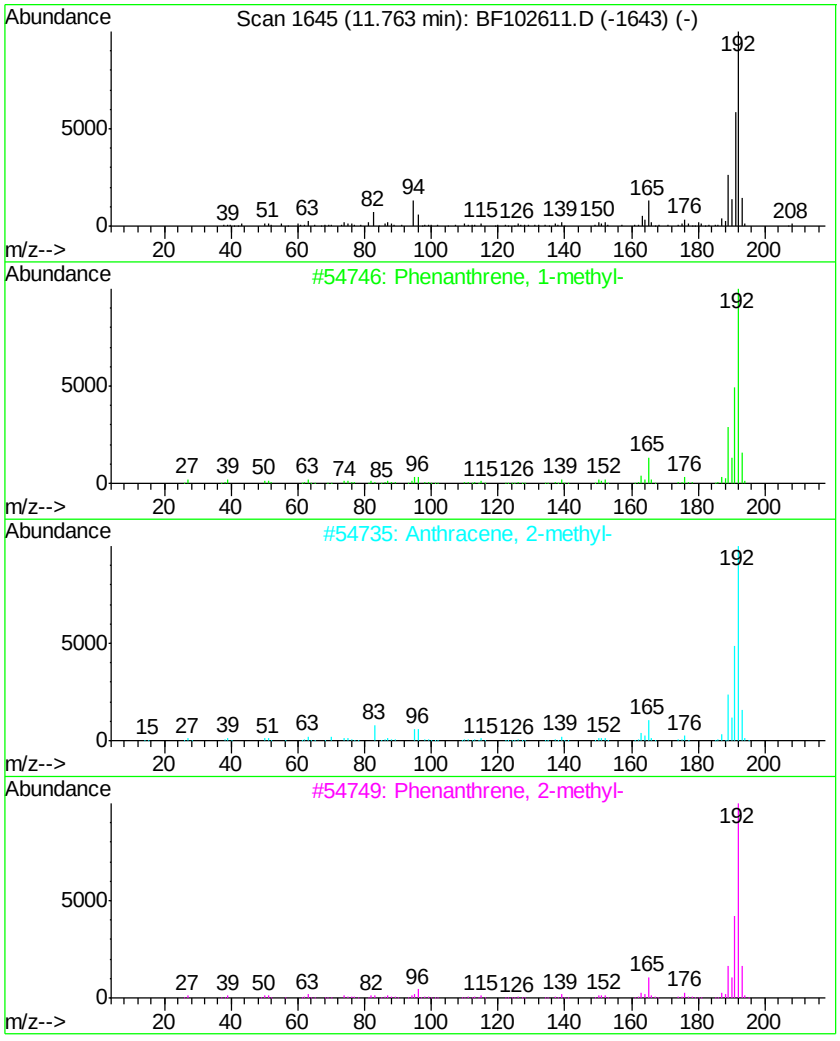
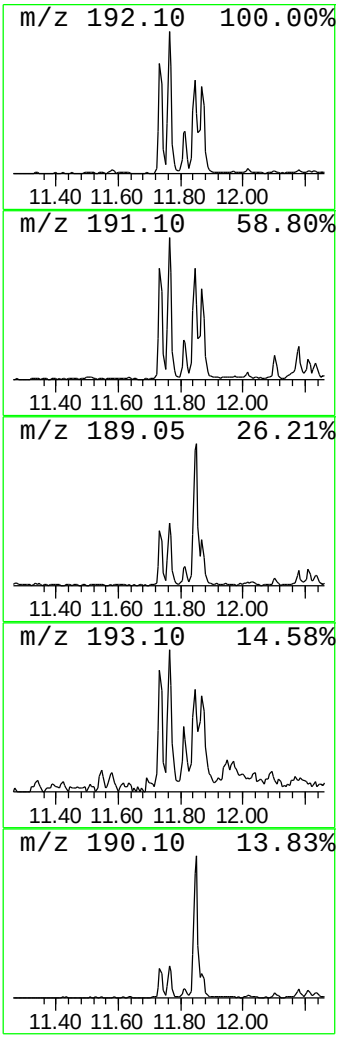
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	3.52 ng	212605	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





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Operator : SJ/JU
Sample : J1353-02
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Instrument :
BNA_F
ClientSampleId :
EPE-106-5(5-10)

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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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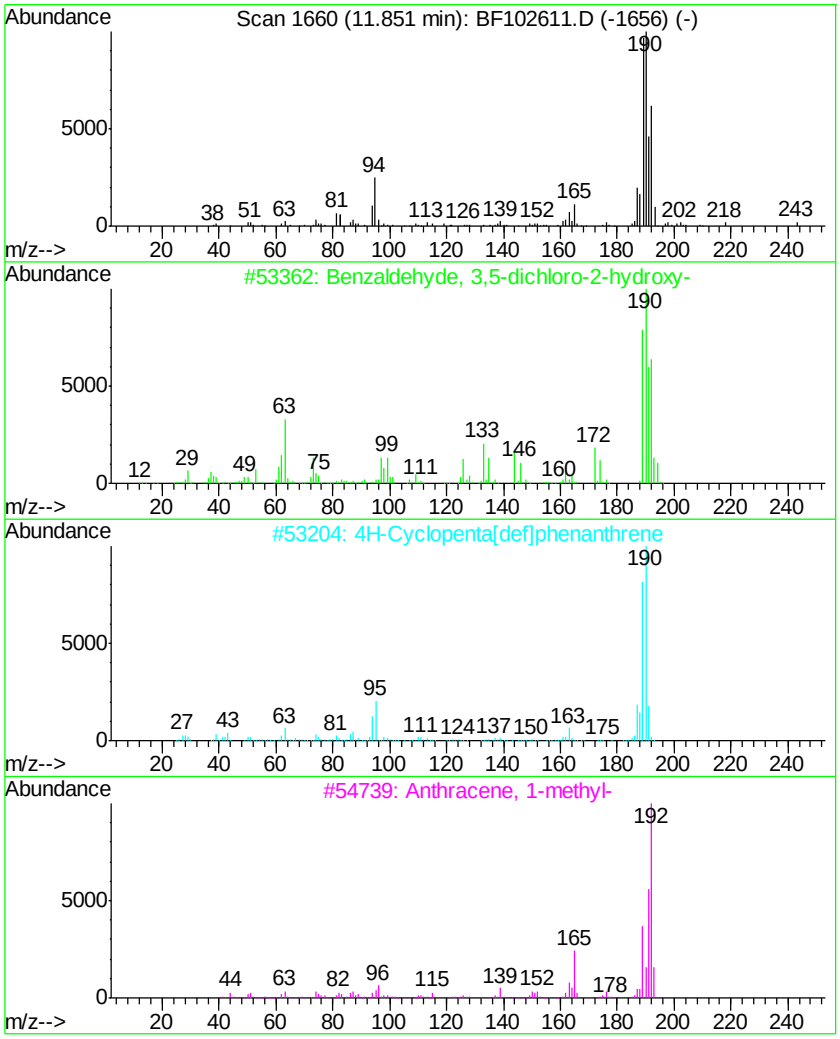
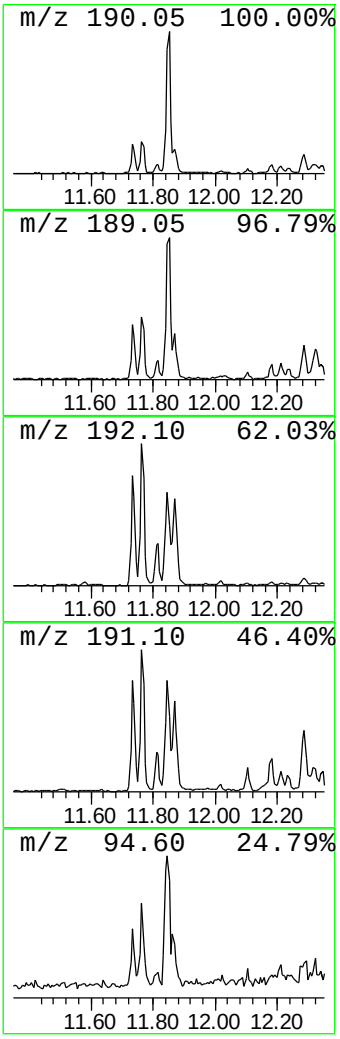
Peak Number 10 Benzaldehyde, 3,5-dichloro-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	4.97 ng	299656	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	58
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	49
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46





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Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

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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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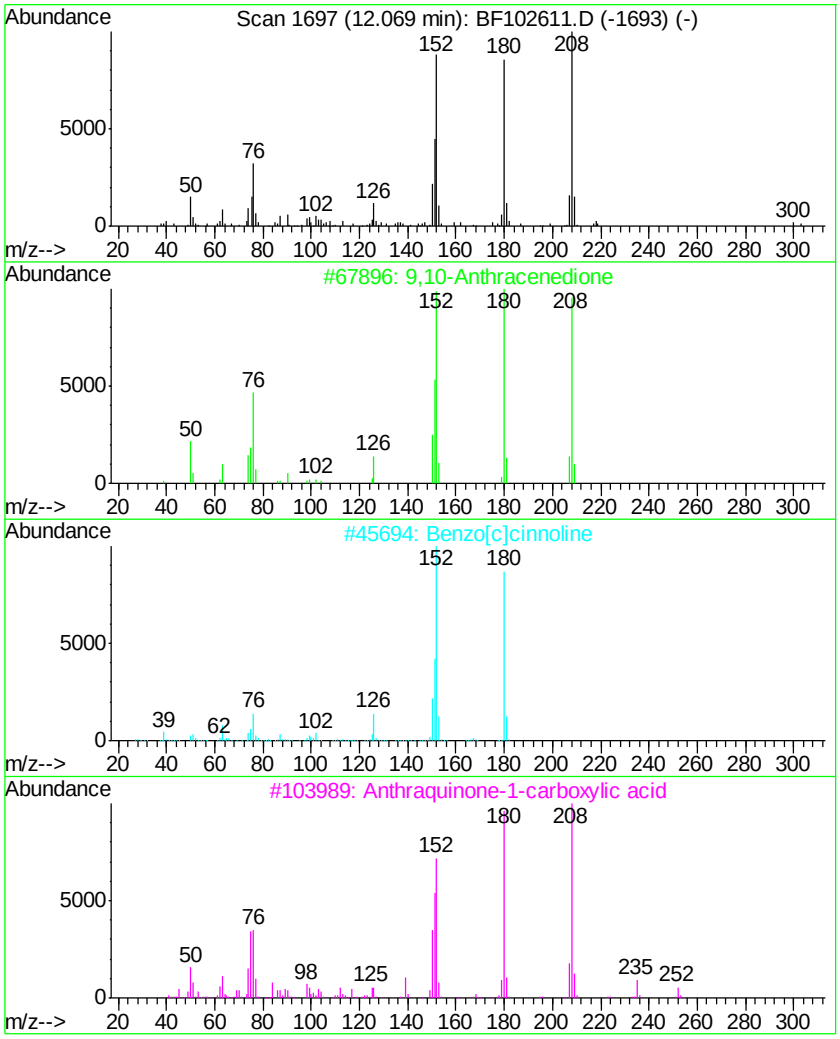
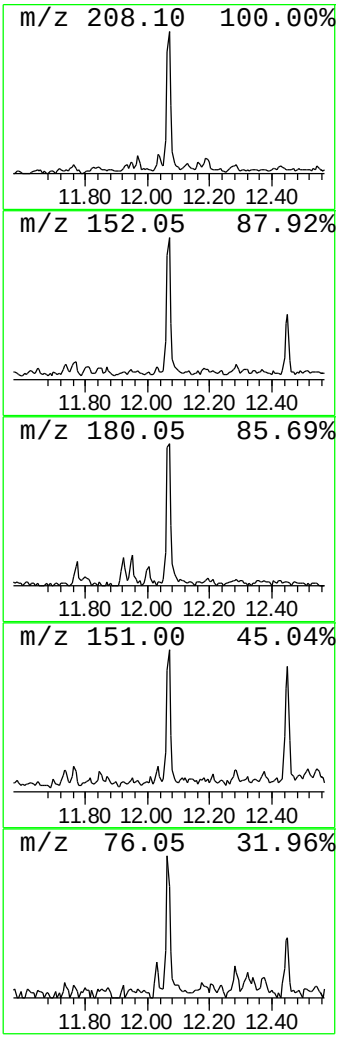
Peak Number 11 9,10-Anthracenedione Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	2.32 ng	139913	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3	Anthraquinone-1-carboxylic acid	252	C15H8O4	000602-69-7	90
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	78





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Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
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Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

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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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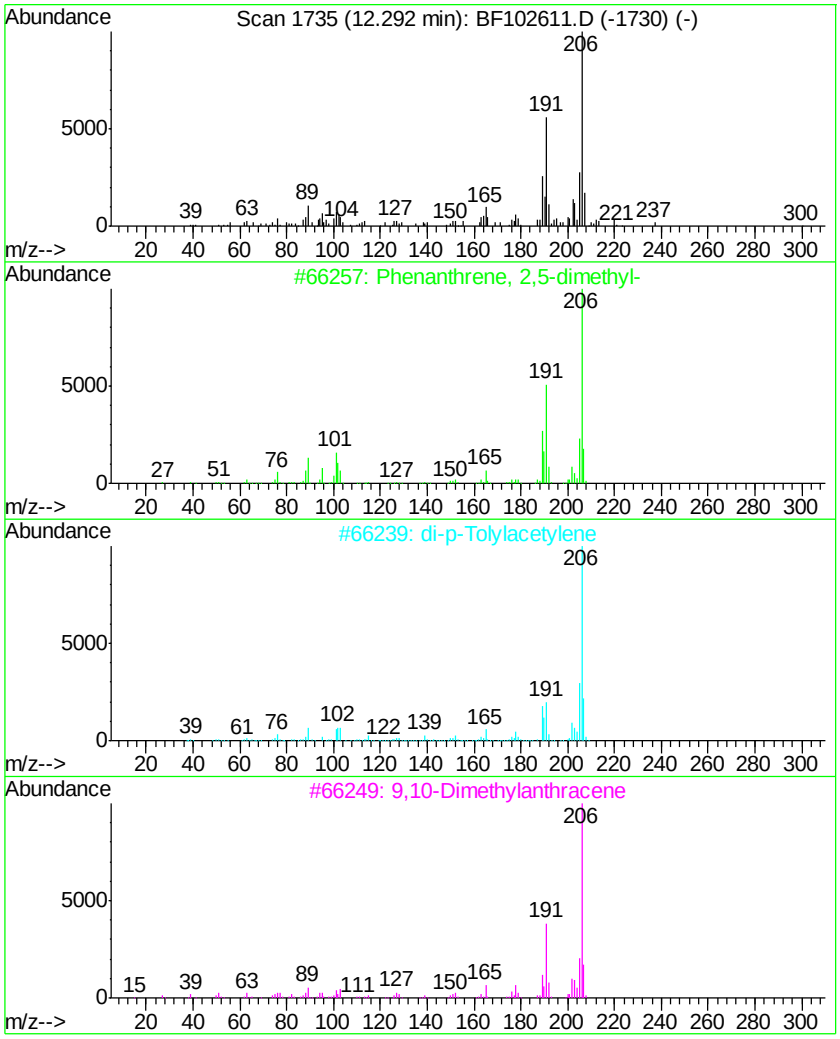
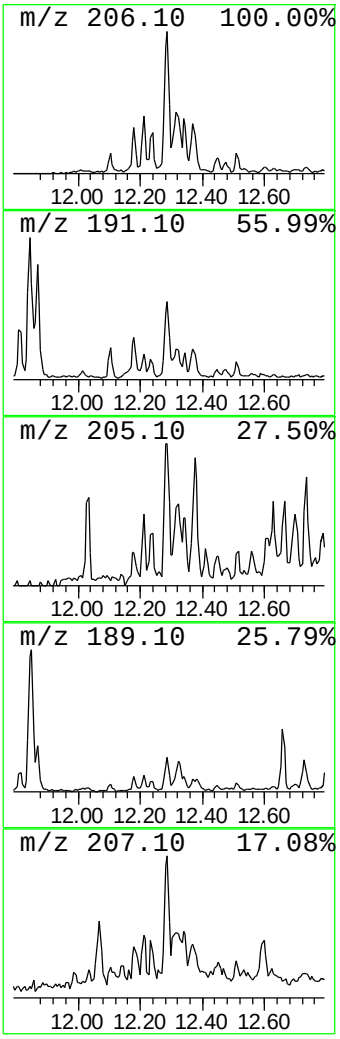
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	2.68 ng	161551	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91





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Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

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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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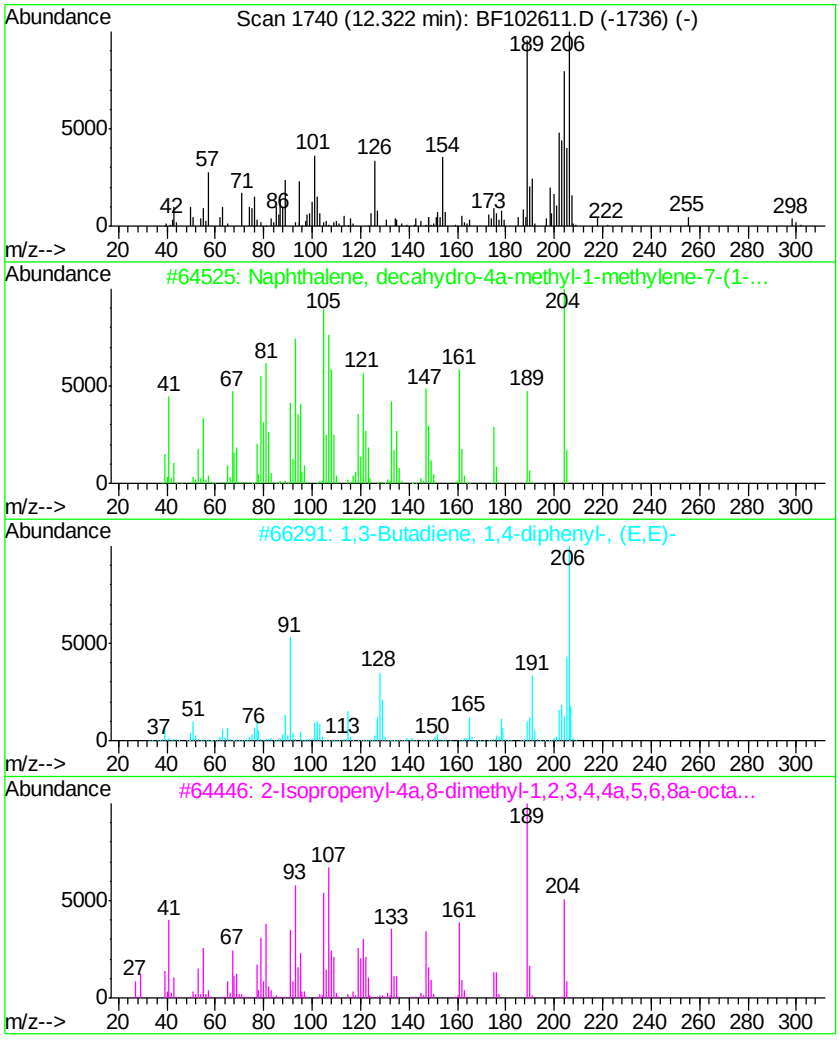
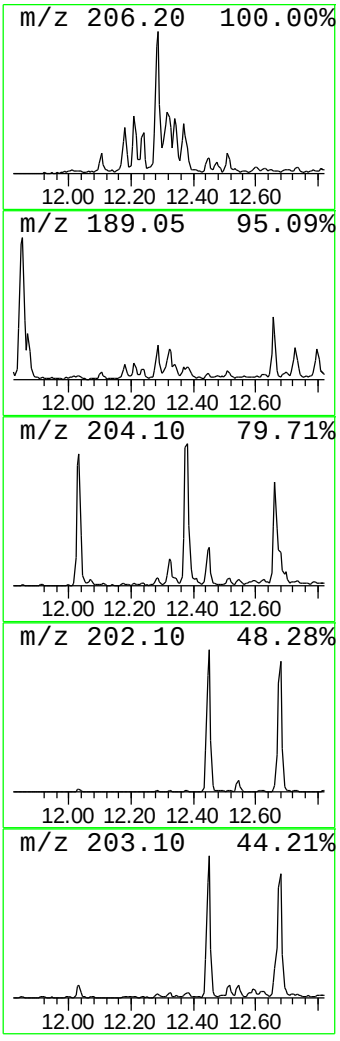
Peak Number 13 Naphthalene, decahydro-4a-m... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	2.46 ng	148276	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	90
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	30
3	2-Isopropenyl-4a,8-dimethyl-1,2,...	204	C15H24	1000193-57-0	27
4	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	25
5	2,3-Dicyano-5-phenylpyrazine	206	C12H6N4	052109-66-7	25





Library Search Compound Report

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Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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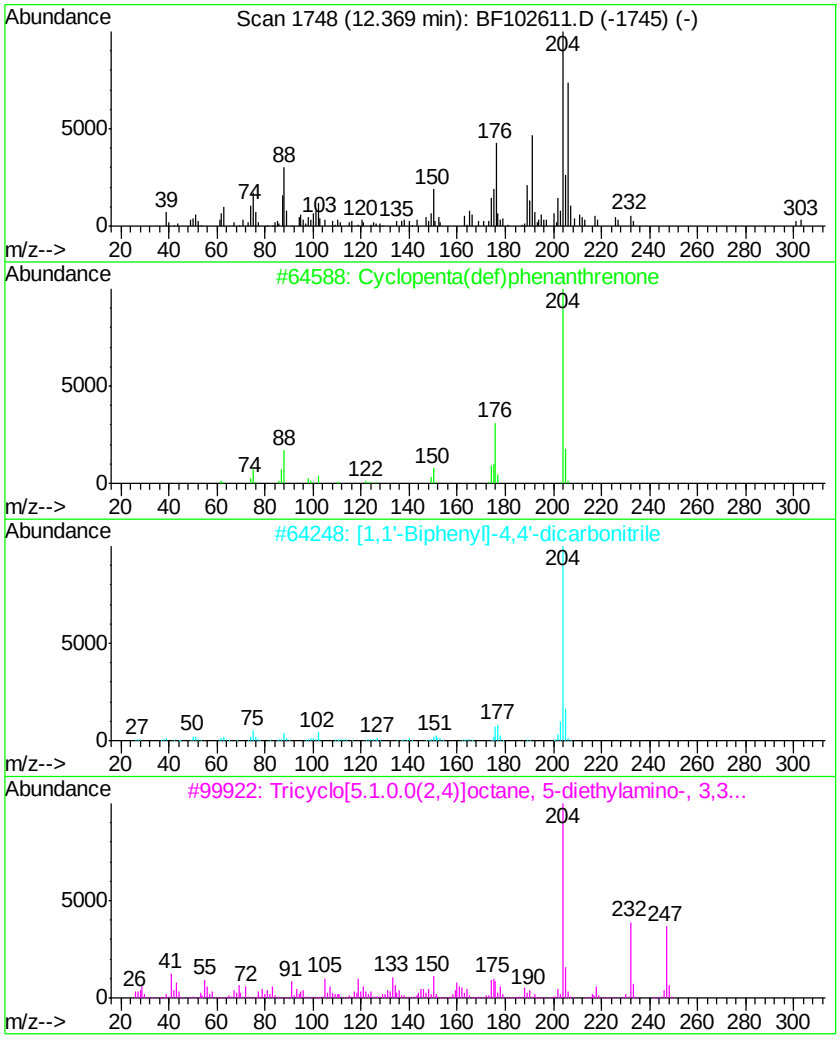
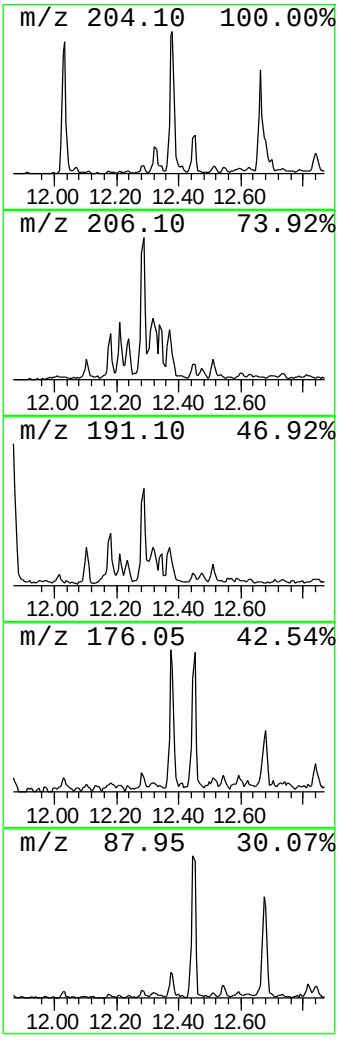
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	2.75 ng	166015	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47
3	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	47
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42





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ClientSampleId : EPE-106-5(5-10)

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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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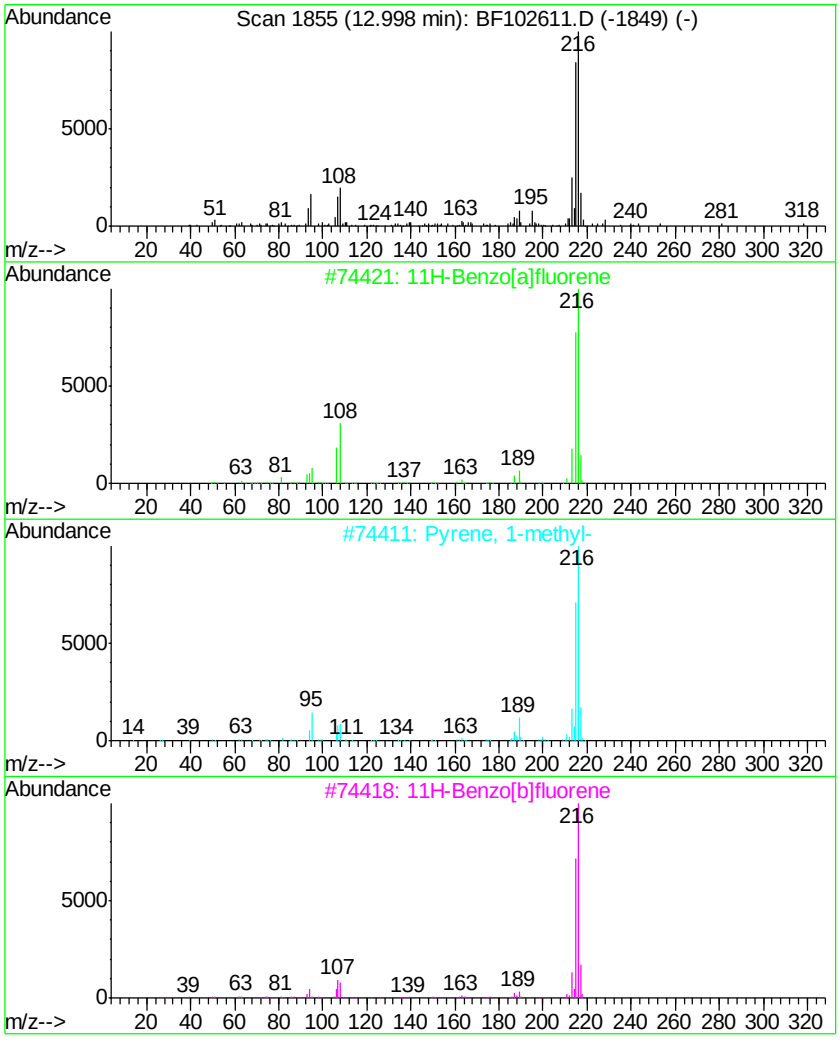
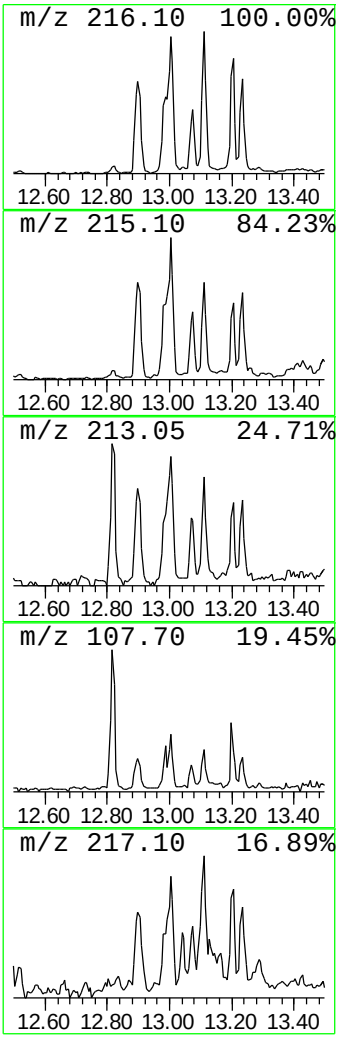
Peak Number 15 11H-Benzo[a]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.95 ng	308935	Chrysene-d12	13.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





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Misc :
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Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

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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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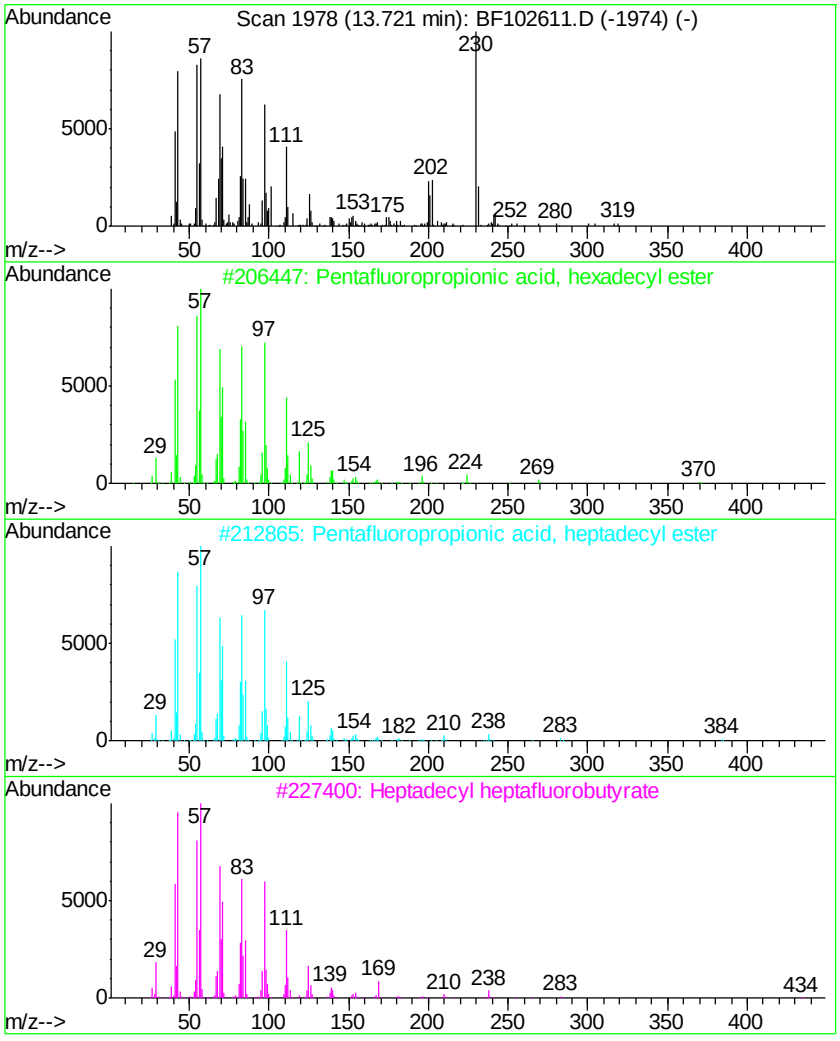
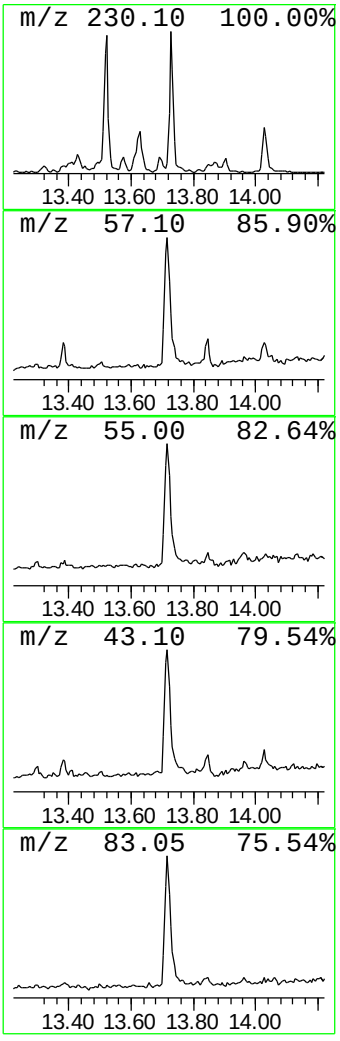
Peak Number 16 Pentafluoropropionic acid, ... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.72	6.23 ng	651029	Chrysene-d12	13.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	94
2	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	94
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	93
5	2- Chloropropionic acid, hexadec...	332	C19H37ClO2	086711-81-1	91





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Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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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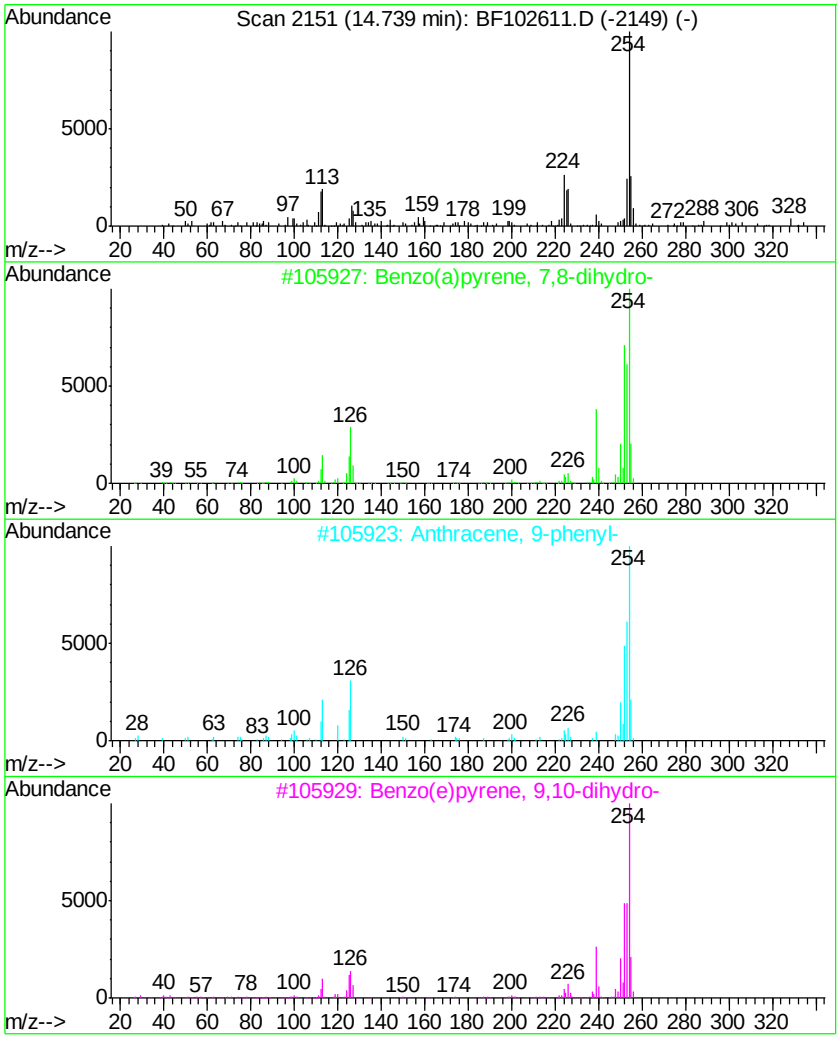
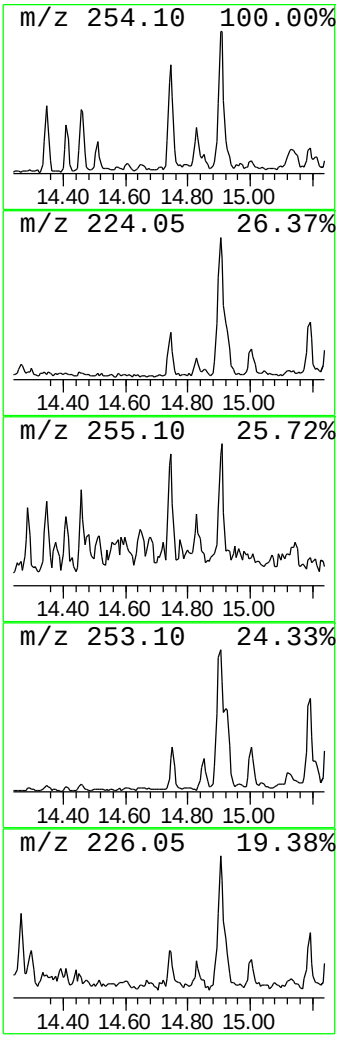
Peak Number 17 Benzo(a)pyrene, 7,8-dihydro- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.74	2.39 ng	109380	Perylene-d12	15.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	76
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	76
3	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	74
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	70
5	1,2'-Binaphthalene	254	C20H14	004325-74-0	62





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ClientSampleId : EPE-106-5(5-10)

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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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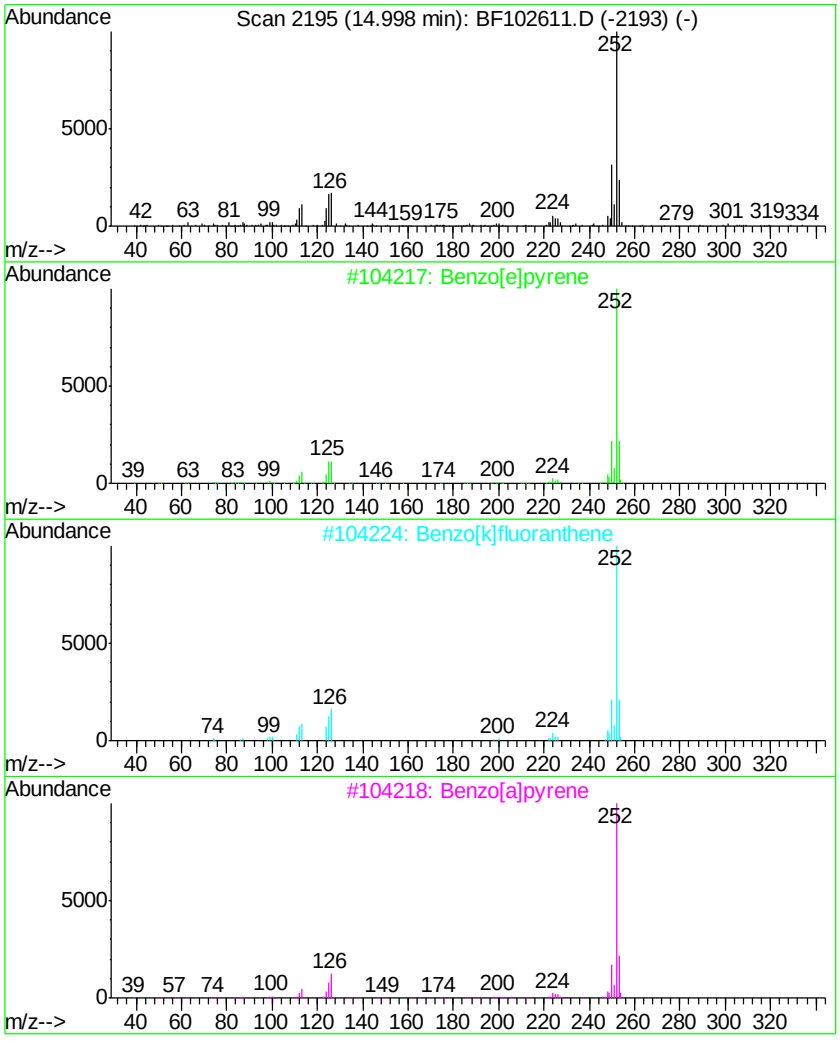
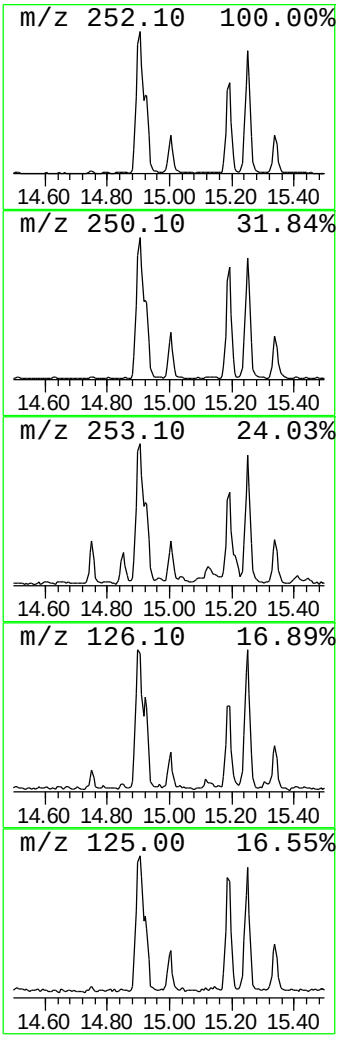
Peak Number 18 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	4.07 ng	185886	Perylene-d12	15.31

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





Tentatively Identified Compound (LSC) summary

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Data File : BF102611.D
Acq On : 29 Jan 2018 21:44
Operator : SJ/JU
Sample : J1353-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EPE-106-5(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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...	4.92	3.2	ng	159344	1	6.71	990544	20.0
unknown6.49	6.49	72.5	ng	3591780	1	6.71	990544	20.0
Hexadecane	10.17	2.4	ng	169679	3	9.75	1430220	20.0
Octadecane	10.65	4.3	ng	257595	4	11.23	1206820	20.0
Tetracosane	11.09	2.7	ng	163762	4	11.23	1206820	20.0
5H-Indeno[1,2-b]p...	11.47	2.9	ng	176235	4	11.23	1206820	20.0
Anthracene, 1-met...	11.73	2.9	ng	173198	4	11.23	1206820	20.0
Phenanthrene, 1-m...	11.76	3.5	ng	212605	4	11.23	1206820	20.0
Benzaldehyde, 3,5...	11.85	5.0	ng	299656	4	11.23	1206820	20.0
9,10-Anthracenedione	12.07	2.3	ng	139913	4	11.23	1206820	20.0
Phenanthrene, 2,5...	12.29	2.7	ng	161551	4	11.23	1206820	20.0
Naphthalene, deca...	12.32	2.5	ng	148276	4	11.23	1206820	20.0
Cyclopenta(def)ph...	12.37	2.8	ng	166015	4	11.23	1206820	20.0
11H-Benzo[a]fluorene	13.00	3.0	ng	308935	5	13.88	2091300	20.0
Pentafluoropropio...	13.72	6.2	ng	651029	5	13.88	2091300	20.0
Benzo(a)pyrene, 7...	14.74	2.4	ng	109380	6	15.31	914080	20.0
Benzo[e]pyrene	15.00	4.1	ng	185886	6	15.31	914080	20.0