LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\
Data File : BF099882.D
Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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	4.998	493	495	509	rVB	140299	178900	11.91%	0.597%
2	5.416	563	566	585	rVV	678704	843298	56.13%	2.813%
3	6.434	736	739	755	rBV	904456	981156	65.30%	3.273%
4	6.563	758	761	767	rVV	1050006	1015609	67.59%	3.388%
5	6.616	767	770	774	rVB2	51760	47920	3.19%	0.160%
6	6.792	797	800	807	rBV	659793	551967	36.74%	1.841%
7	6.945	823	826	834	rVB	906068	850929	56.63%	2.838%
8	7.363	893	897	903	rBV	695898	648916	43.19%	2.165%
9	8.075	1015	1018	1021	rVV	897013	772911	51.44%	2.578%
10	8.098	1021	1022	1025	rVV	113963	82277	5.48%	0.274%
11	8.639	1111	1114	1116	rBV	97061	95610	6.36%	0.319%
12	8.792	1137	1140	1146	rBV	120309	105409	7.02%	0.352%
13	8.892	1152	1157	1160	rBV	85866	76204	5.07%	0.254%
14	9.151	1196	1201	1205	rBV	1444849	1313514	87.42%	4.381%
15	9.228	1209	1214	1216	rVV	53369	49846	3.32%	0.166%
16	9.422	1243	1247	1251	rVV2	39593	53680	3.57%	0.179%
17	9.492	1255	1259	1262	rVV	78188	87830	5.85%	0.293%
18	9.522	1262	1264	1266	rVV	61070	62629	4.17%	0.209%
19	9.551	1266	1269	1276	rVV	508586	473789	31.53%	1.580%
20	9.610	1276	1279	1287	rVB2	46556	71847	4.78%	0.240%
21	9.698	1291	1294	1298	rVV	150085	129573	8.62%	0.432%
22	9.839	1306	1318	1321	rVV	889960	884807	58.89%	2.951%
23	9.869	1321	1323	1326	rVV	106430	91601	6.10%	0.306%
24	10.045	1349	1353	1356	rVV2	80506	91864	6.11%	0.306%
25	10.080	1356	1359	1362	rVB2	50210	49888	3.32%	0.166%
26	10.151	1368	1371	1374	rBV	60672	63377	4.22%	0.211%
27	10.180	1374	1376	1382	rVB	37559	47111	3.14%	0.157%
28	10.257	1382	1389	1392	rBV3	77294	125852	8.38%	0.420%
29	10.386	1407	1411	1417	rVB2	91773	123623	8.23%	0.412%
30	10.551	1436	1439	1443	rVB	510278	421670	28.06%	1.407%
31	10.633	1449	1453	1459	rBV2	707884	612466	40.76%	2.043%
32	10.739	1466	1471	1475	rBV2	128077	186141	12.39%	0.621%
33	10.939	1500	1505	1507	rBV2	66250	83207	5.54%	0.278%
34	11.063	1521	1526	1528	rBV3	53956	71268	4.74%	0.238%

LSC Area Percent Report

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Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.086	1528	1530	1536	rVV2	49373	61347	4.08%	0.205%
36	11.145	1536	1540	1543	rVV2	69797	83813	5.58%	0.280%
37	11.180	1543	1546	1549	rVV2	96452	108272	7.21%	0.361%
38	11.227	1552	1554	1558	rVB2	78730	71993	4.79%	0.240%
39	11.333	1568	1572	1574	rBV	888048	837483	55.74%	2.794%
40	11.357	1574	1576	1579	rVV	1072451	806594	53.68%	2.690%
41	11.410	1582	1585	1588	rBV	215656	176522	11.75%	0.589%
42	11.575	1607	1613	1616	rBV2	114448	150182	10.00%	0.501%
43	11.663	1623	1628	1629	rBV2	49132	59598	3.97%	0.199%
44	11.739	1638	1641	1647	rBV2	35773	44544	2.96%	0.149%
45	11.833	1654	1657	1659	rVV	281754	250971	16.70%	0.837%
46	11.863	1659	1662	1666	rVV	369857	340219	22.64%	1.135%
47	11.910	1667	1670	1673	rVV	90298	90251	6.01%	0.301%
48	11.945	1673	1676	1678	rVV2	328239	333424	22.19%	1.112%
49	11.969	1678	1680	1685	rVB	194609	163059	10.85%	0.544%
50	12.016	1685	1688	1692	rBV3	63479	76145	5.07%	0.254%
51	12.127	1704	1707	1711	rVV	182740	184297	12.27%	0.615%
52	12.169	1711	1714	1718	rVV2	154602	163470	10.88%	0.545%
53	12.274	1728	1732	1736	rBV2	78141	121287	8.07%	0.405%
54	12.310	1736	1738	1740	rVB	89997	64218	4.27%	0.214%
55	12.333	1740	1742	1745	rVB	56592	50026	3.33%	0.167%
56	12.386	1748	1751	1753	rBV	207407	213772	14.23%	0.713%
57	12.445	1759	1761	1763	rVB	77947	55968	3.72%	0.187%
58	12.486	1763	1768	1771	rBV2	108181	159553	10.62%	0.532%
59	12.551	1775	1779	1783	rBV	1367389	1285748	85.57%	4.289%
60	12.698	1801	1804	1807	rBV2	102641	114679	7.63%	0.383%
61	12.727	1807	1809	1812	rVB2	94946	77119	5.13%	0.257%
62	12.786	1812	1819	1824	rBV	1295916	1502506	100.00%	5.012%
63	12.833	1824	1827	1831	rVB	110420	112249	7.47%	0.374%
64	12.916	1834	1841	1844	rBV	1141390	1025080	68.22%	3.419%
65	13.004	1851	1856	1861	rBV2	144478	247841	16.50%	0.827%
66	13.051	1861	1864	1867	rVV3	51825	63197	4.21%	0.211%
67	13.110	1867	1874	1877	rVV	213738	376624	25.07%	1.256%
68	13.174	1883	1885	1888	rVV	116051	109156	7.26%	0.364%
69	13.216	1888	1892	1899	rVV3	200034	248906	16.57%	0.830%
70	13.310	1905	1908	1911	rBV	153936	135120	8.99%	0.451%
71	13.339	1911	1913	1916	rVB	121989	105734	7.04%	0.353%

LSC Area Percent Report

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Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.633	1959	1963	1966	rVV	156773	172389	11.47%	0.575%
73	13.739	1975	1981	1982	rBV2	165869	192055	12.78%	0.641%
74	13.757	1982	1984	1987	rVV	143174	122732	8.17%	0.409%
75	13.798	1987	1991	1996	rVV3	149942	258277	17.19%	0.862%
76	13.845	1996	1999	2004	rVB2	155310	168002	11.18%	0.560%
77	13.904	2004	2009	2012	rBV	58357	90660	6.03%	0.302%
78	13.986	2018	2023	2026	rBV2	785442	1277203	85.00%	4.260%
79	14.016	2026	2028	2031	rVB	641696	518924	34.54%	1.731%
80	14.092	2039	2041	2044	rVB	98277	81363	5.42%	0.271%
81	14.151	2048	2051	2056	rVV4	61939	78102	5.20%	0.261%
82	14.374	2084	2089	2092	rVV	189752	217605	14.48%	0.726%
83	14.410	2092	2095	2096	rBV	81539	65602	4.37%	0.219%
84	14.504	2108	2111	2112	rBV	86776	86256	5.74%	0.288%
85	14.704	2142	2145	2147	rBV3	67591	83468	5.56%	0.278%
86	14.874	2172	2174	2178	rVB2	69726	67052	4.46%	0.224%
87	15.033	2197	2201	2211	rBV	645932	1309767	87.17%	4.369%
88	15.139	2216	2219	2224	rBV	133050	158092	10.52%	0.527%
89	15.333	2249	2252	2259	rVB	422206	532084	35.41%	1.775%
90	15.404	2259	2264	2270	rBV	545062	719533	47.89%	2.400%
91	15.462	2270	2274	2277	rVV	423842	519433	34.57%	1.733%
92	15.498	2277	2280	2286	rVB2	155478	208709	13.89%	0.696%
93	15.639	2300	2304	2306	rBV2	34068	48856	3.25%	0.163%
94	16.745	2487	2492	2495	rBV2	44593	73605	4.90%	0.246%
95	16.786	2495	2499	2504	rVB2	54806	94007	6.26%	0.314%
96	16.951	2519	2527	2534	rVB	279029	595792	39.65%	1.987%
97	17.121	2550	2556	2560	rBV	57950	113608	7.56%	0.379%
98	17.180	2562	2566	2574	rVB2	60847	115507	7.69%	0.385%
99	17.404	2597	2604	2618	rBV	203268	497693	33.12%	1.660%
100	17.662	2644	2648	2655	rVB	45493	95530	6.36%	0.319%

Sum of corrected areas: 29979562

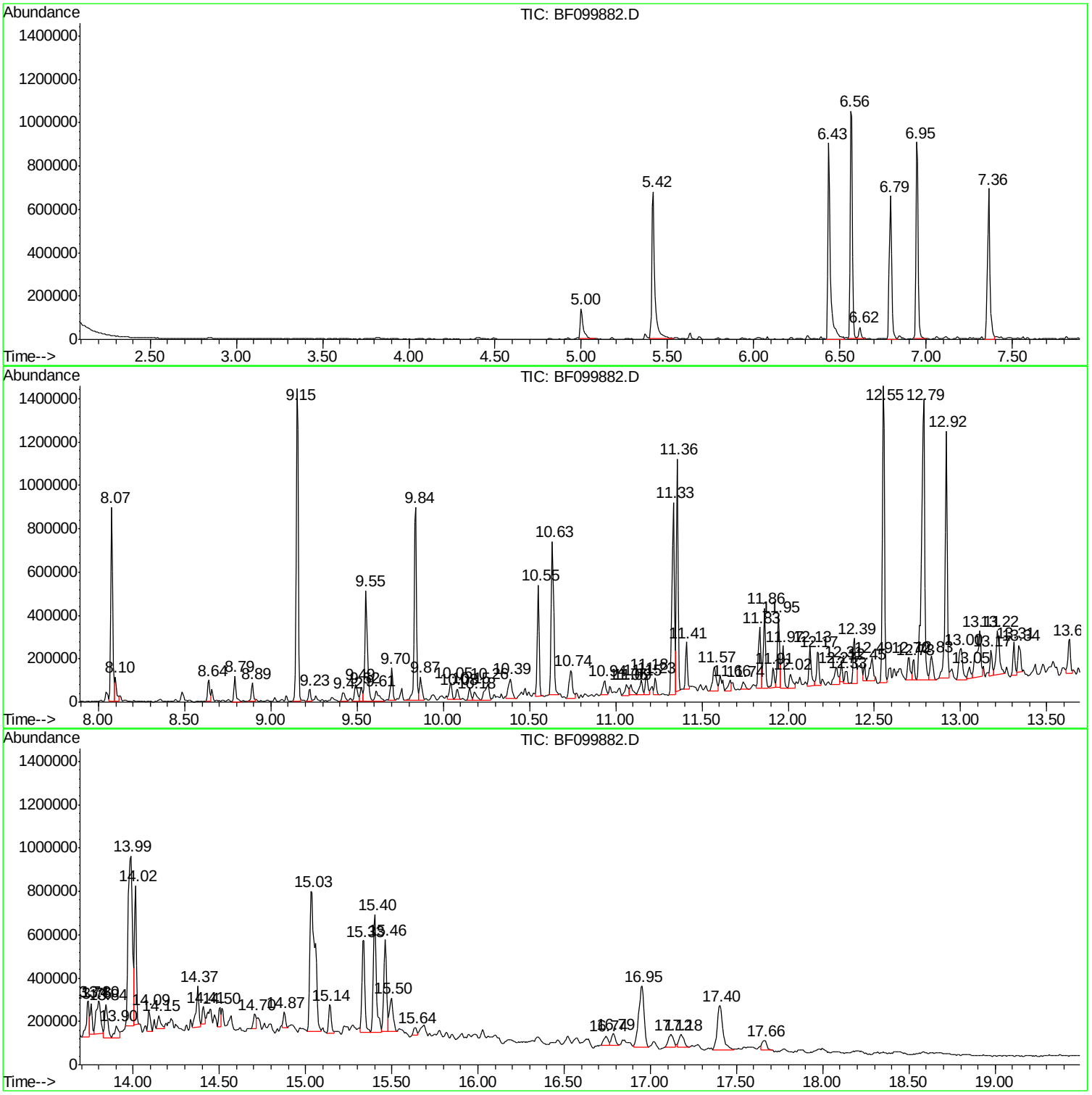
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\
Data File : BF099882.D
Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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\BF102717\
Data File : BF099882.D
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Misc :
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Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

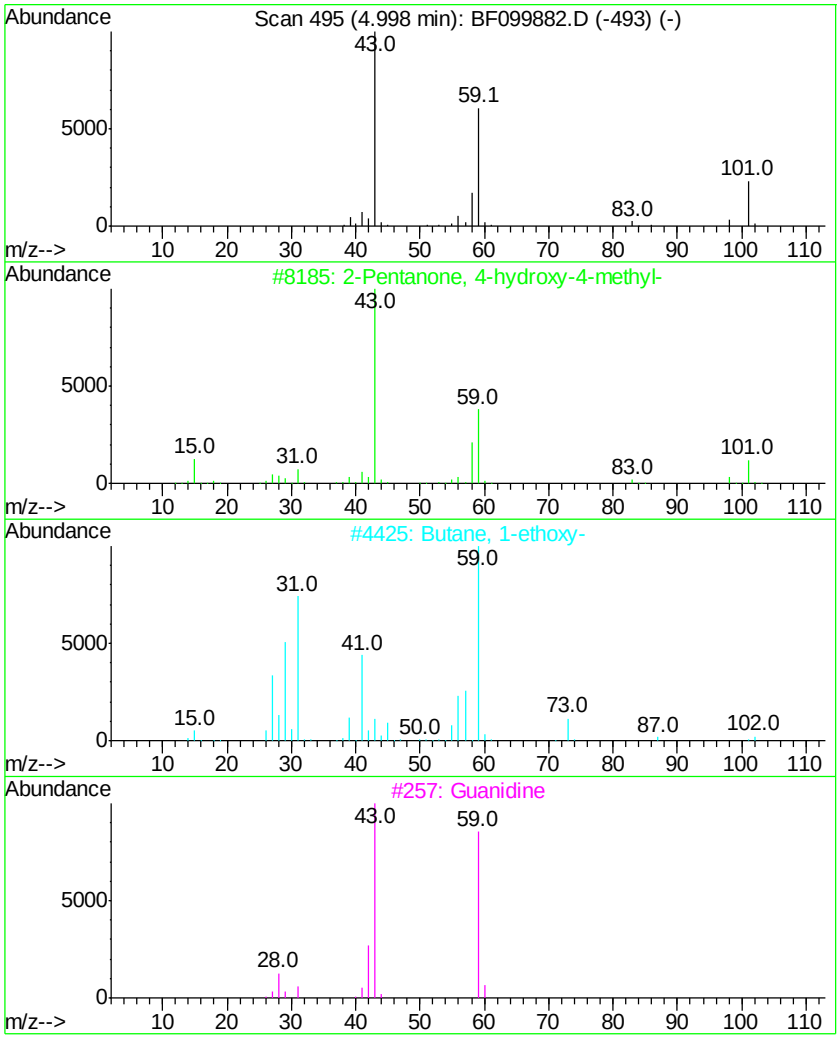
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

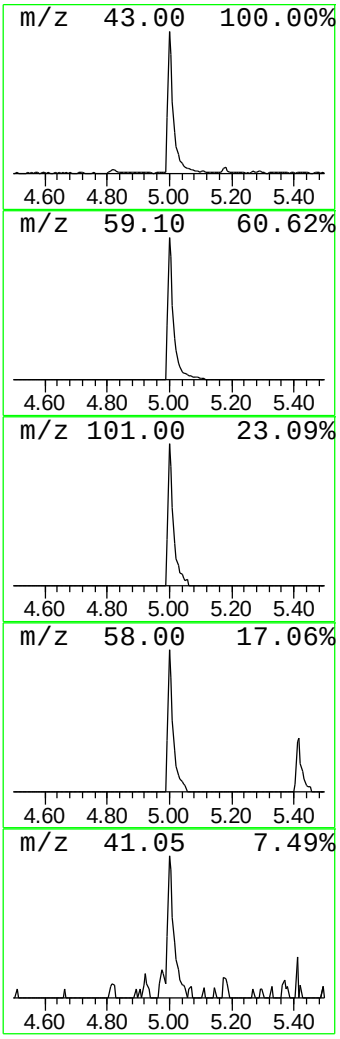
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.00	6.48 ng	178900	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	50
2	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
3	Guanidine	59	CH5N3	000113-00-8	9
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\
Data File : BF099882.D
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Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

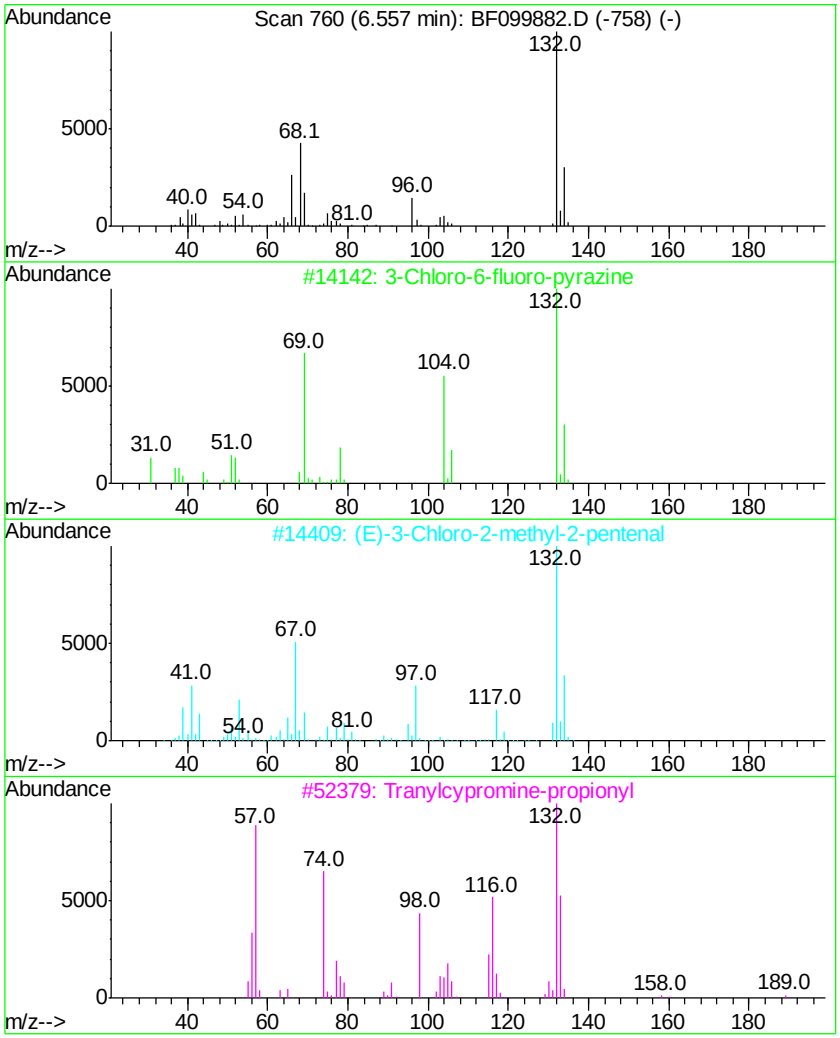
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

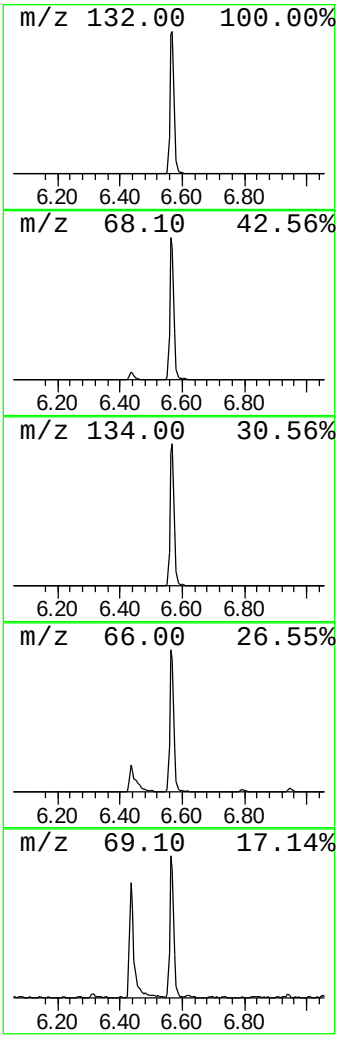
****

Peak Number 2 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	36.80 ng	1015610	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	38
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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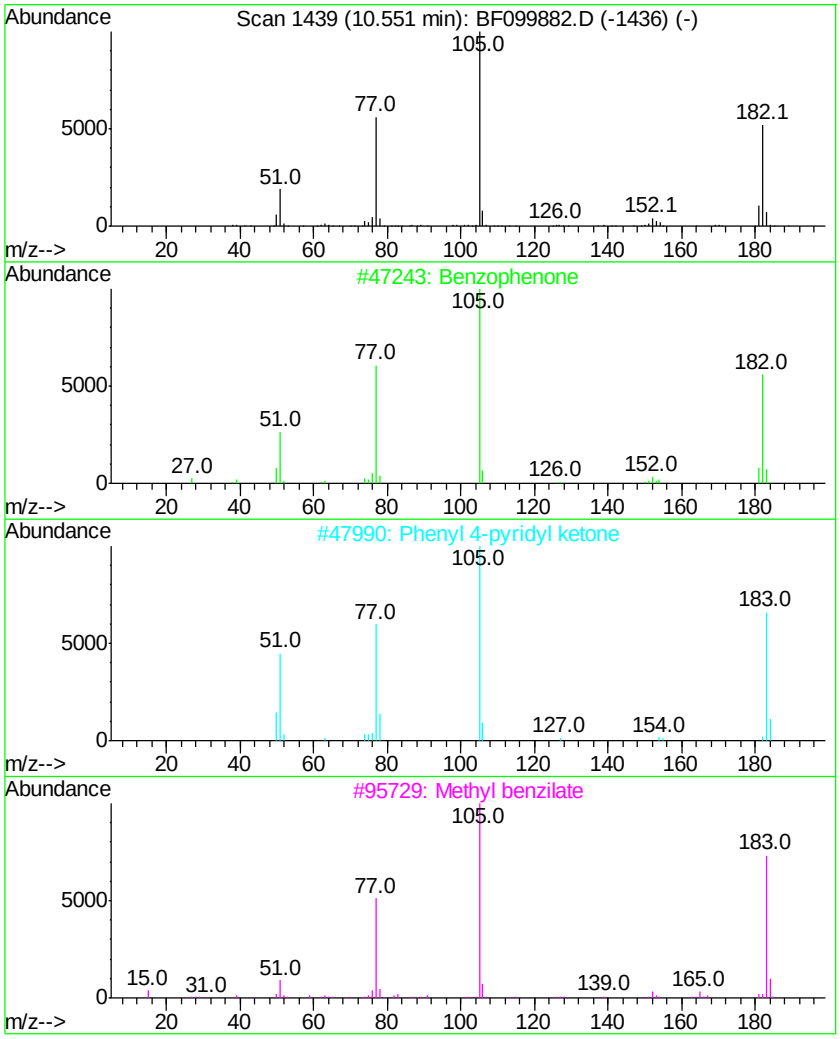
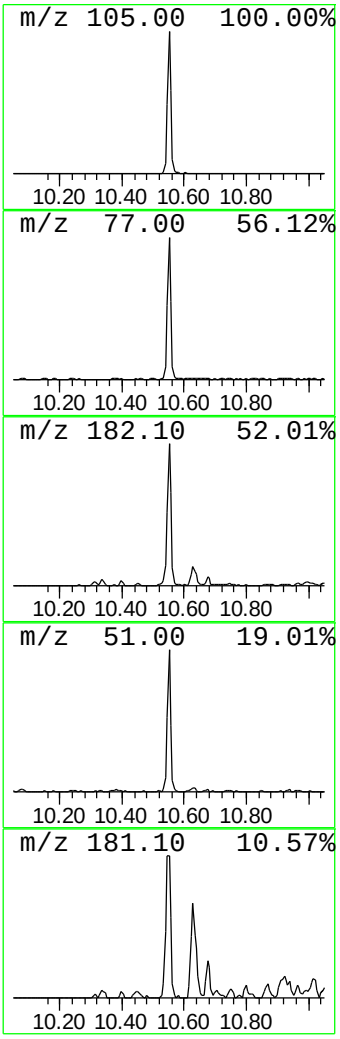
Peak Number 4 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.55	9.53 ng	421670	Acenaphthene-d10	9.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	53
3	Methyl benzilate	242	C15H14O3	000076-89-1	47
4	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	46
5	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\
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Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

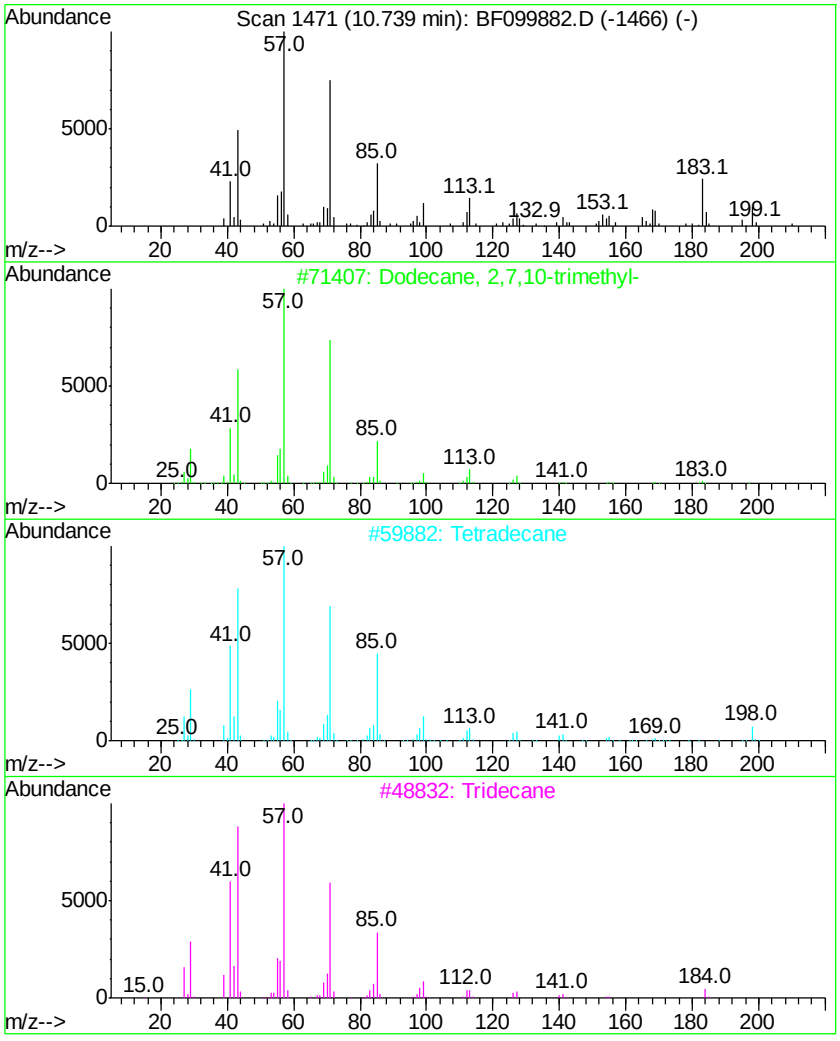
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

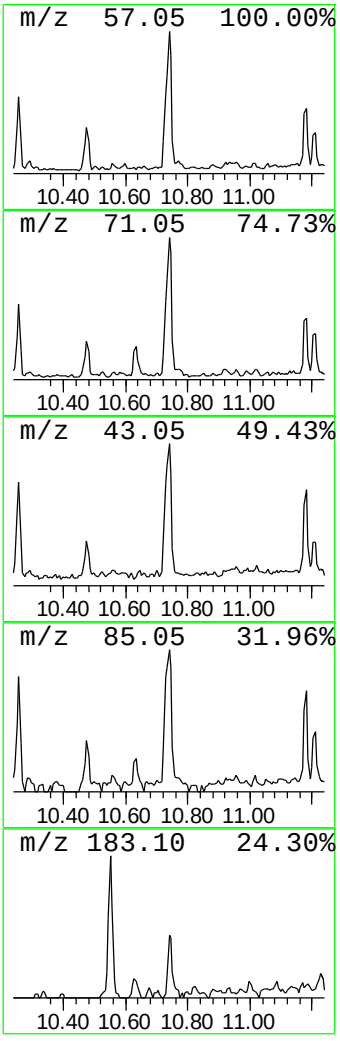
****

Peak Number 5 Dodecane, 2,7,10-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.74	4.45 ng	186141	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	64
2	Tetradecane	198	C14H30	000629-59-4	64
3	Tridecane	184	C13H28	000629-50-5	64
4	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	62
5	Heptacosane	380	C27H56	000593-49-7	58





Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\
Data File : BF099882.D
Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

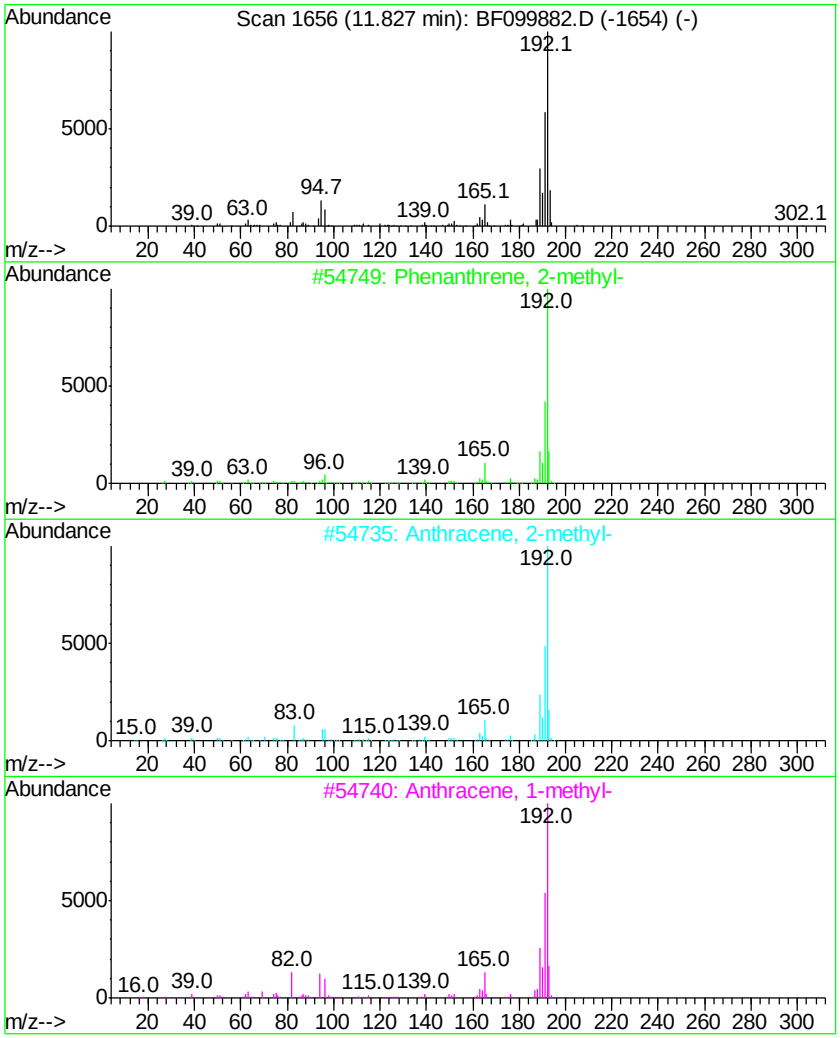
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

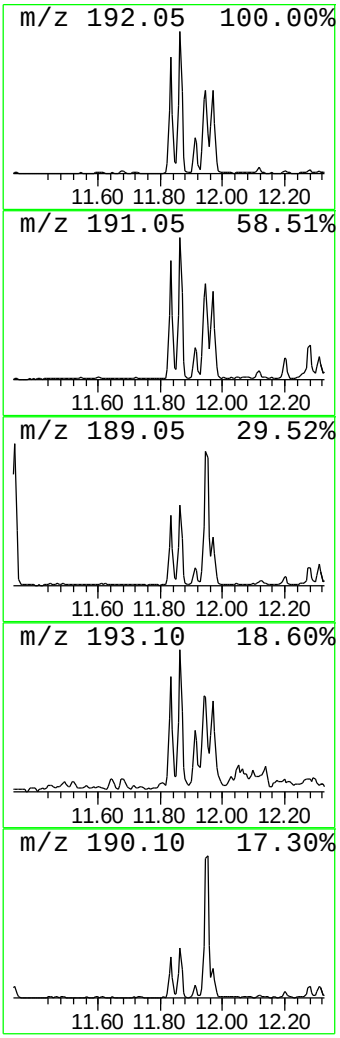
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	5.99 ng	250971	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Data File : BF099882.D
Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

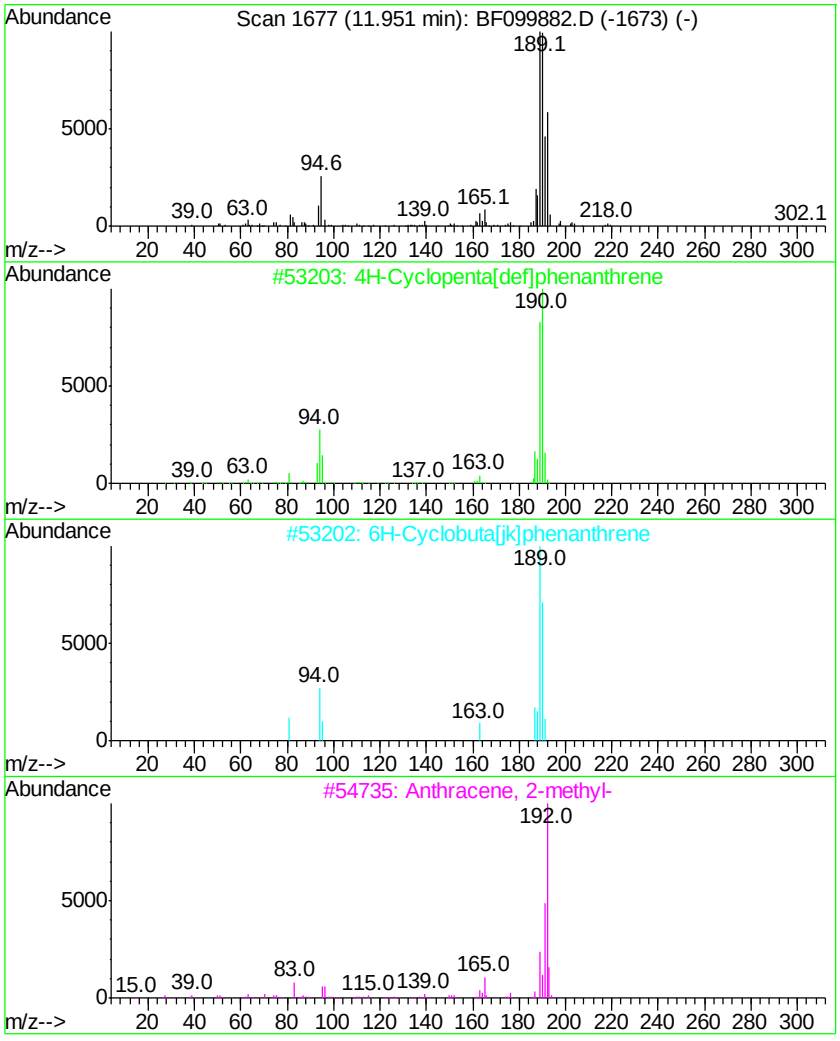
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

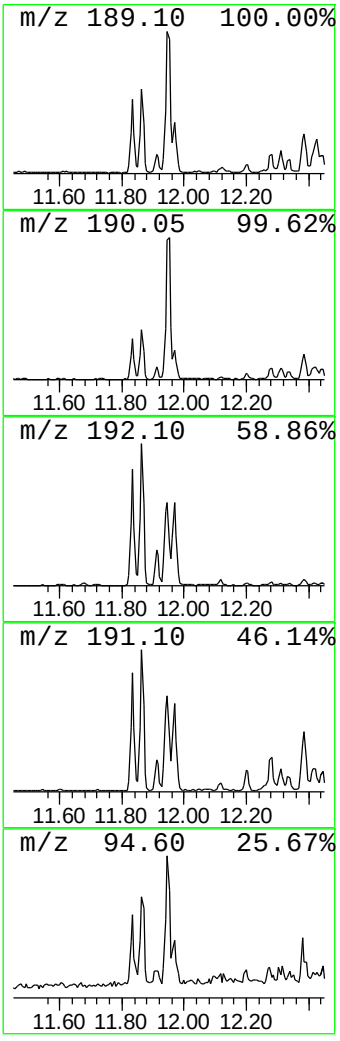
****

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	7.96 ng	333424	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	46





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Sample : I6112-09 2X
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ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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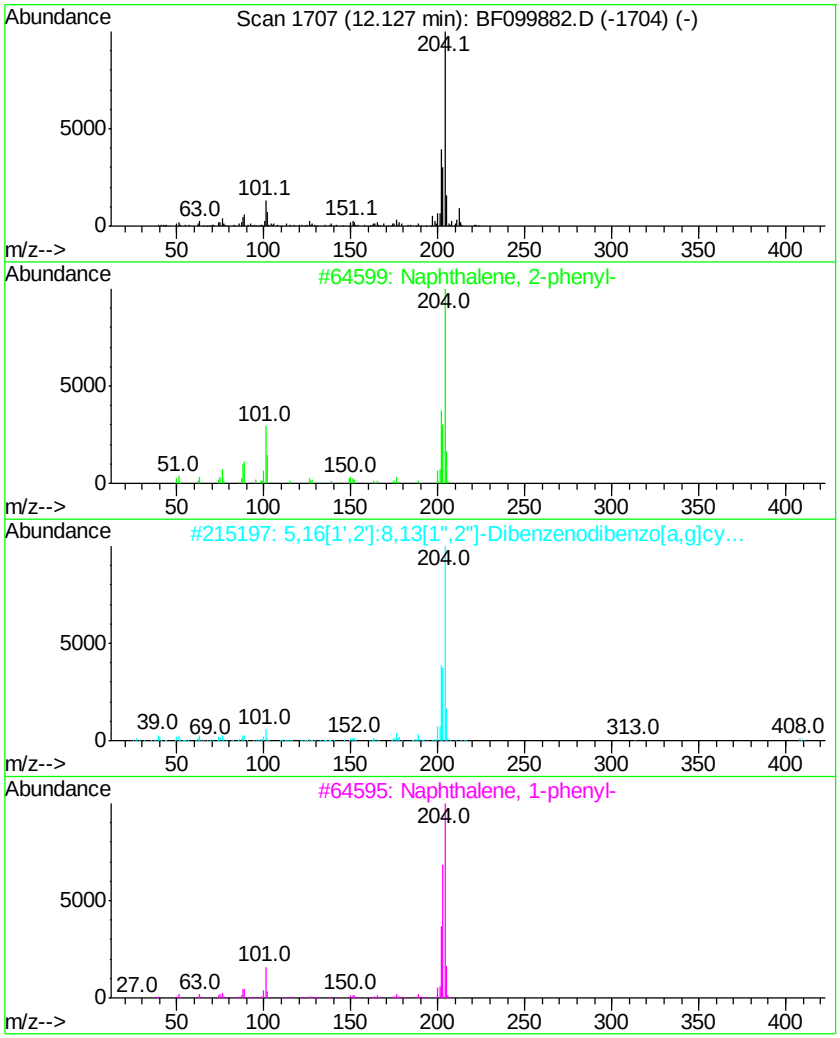
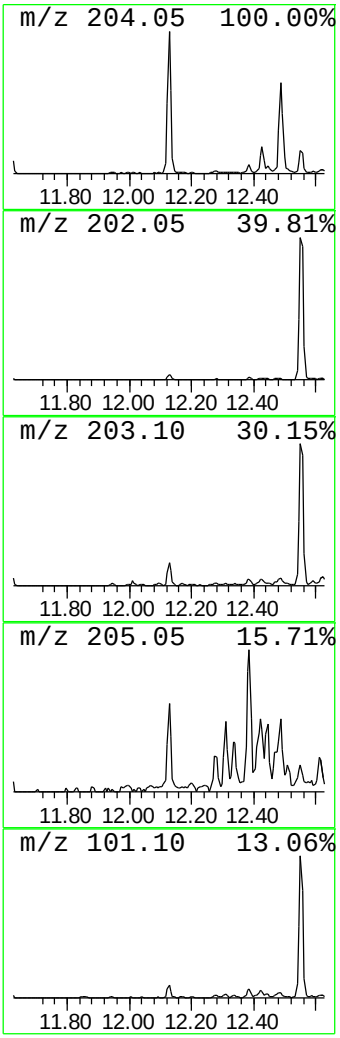
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	4.40 ng	184297	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

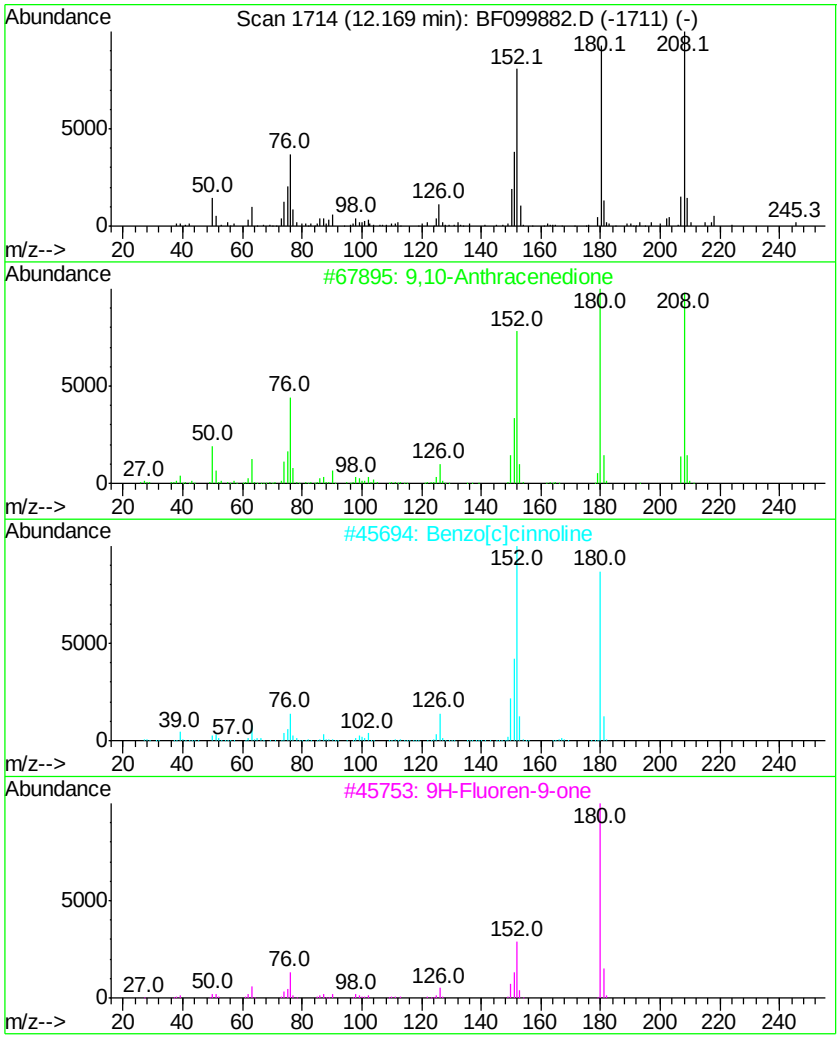
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

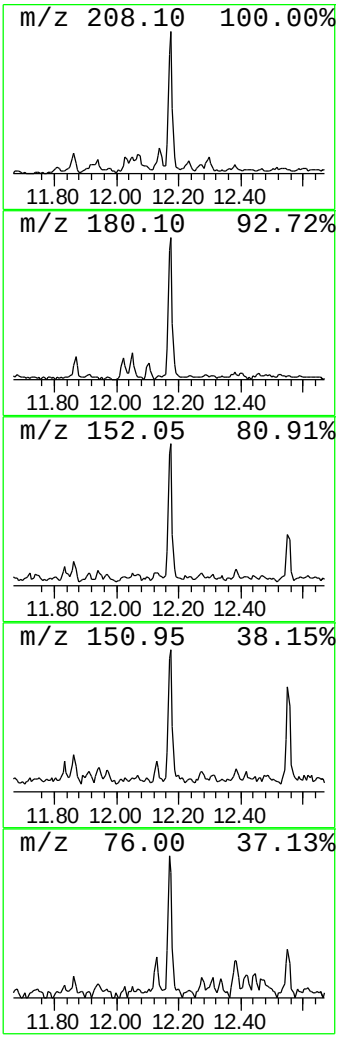
****

Peak Number 11 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	3.90 ng	163470	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	62
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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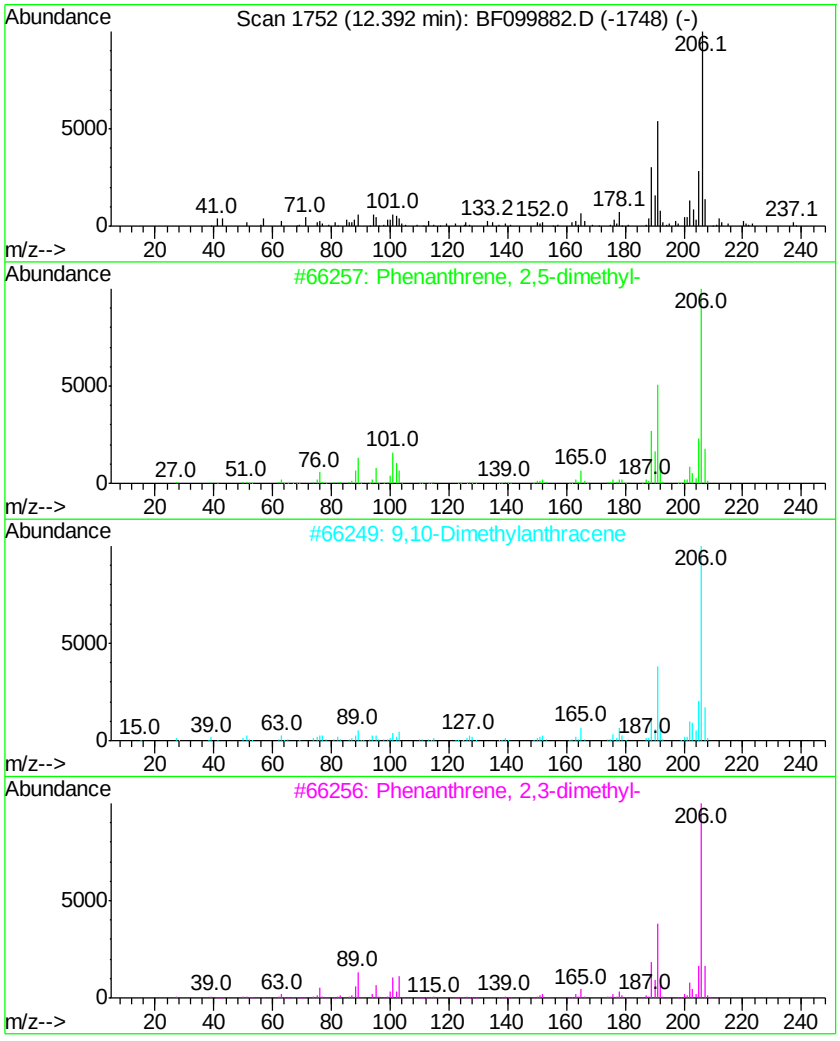
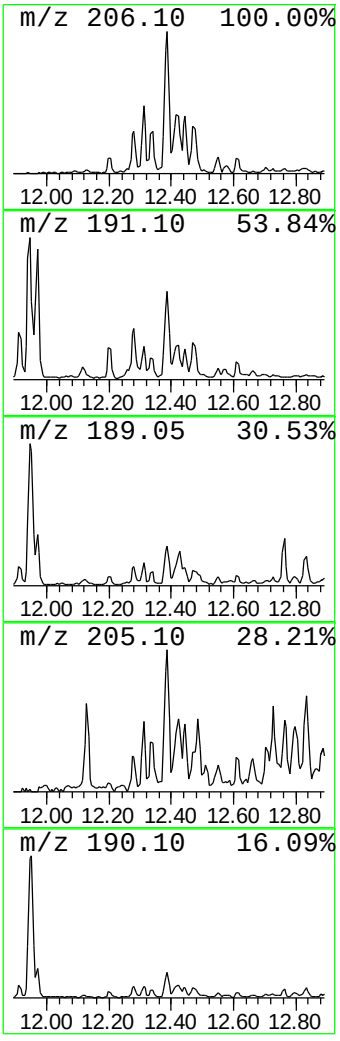
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	5.11 ng	213772	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





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Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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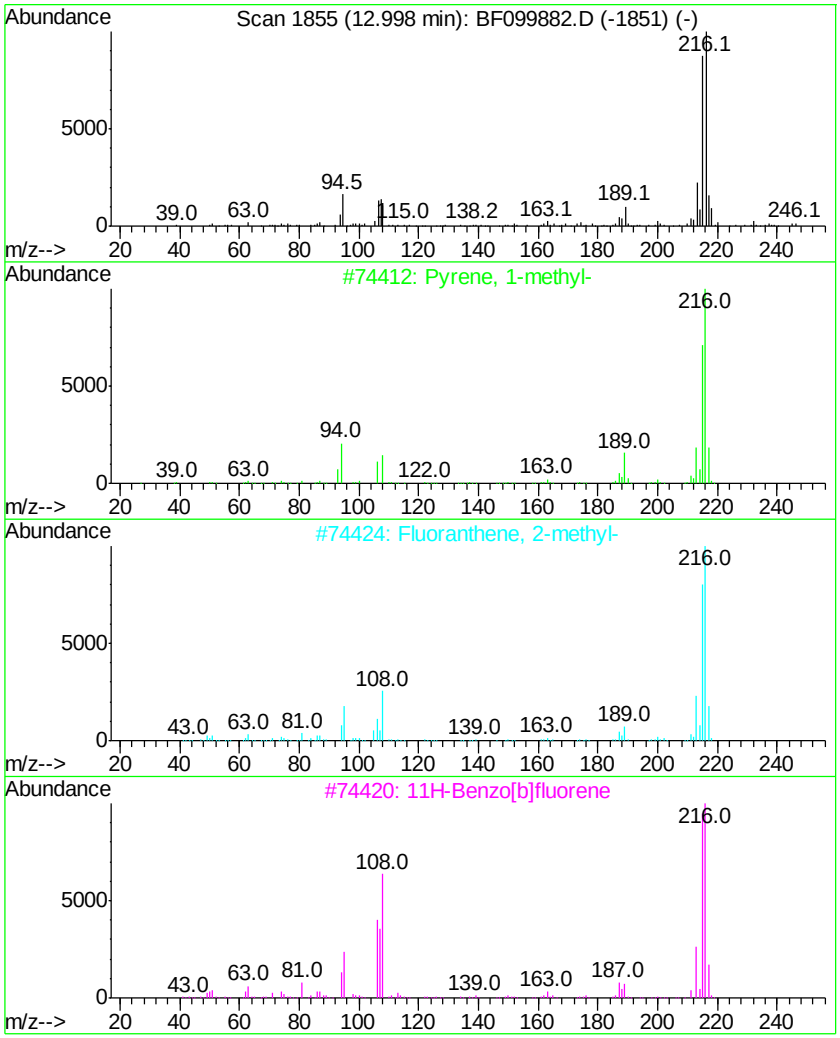
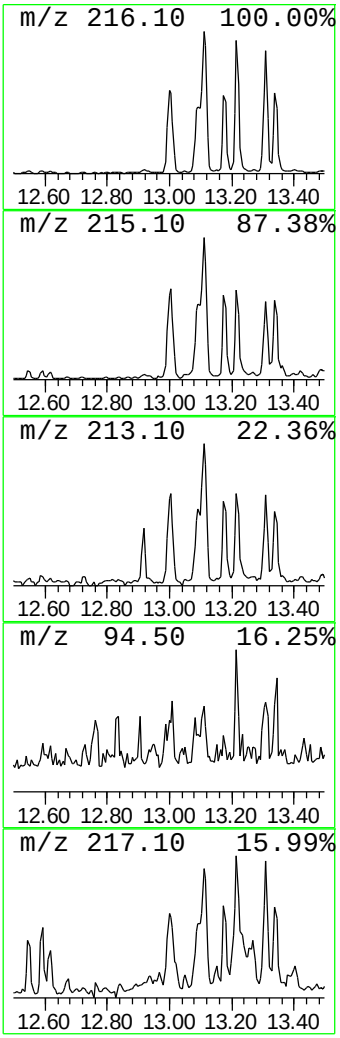
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	3.88 ng	247841	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





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Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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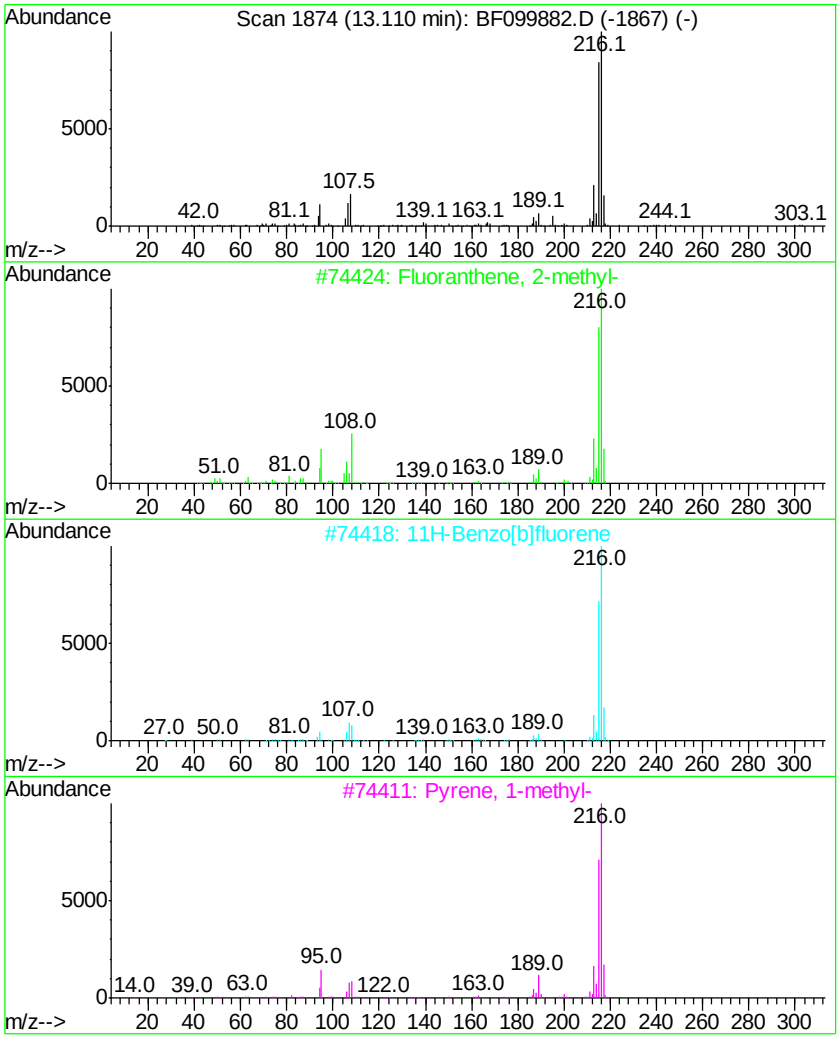
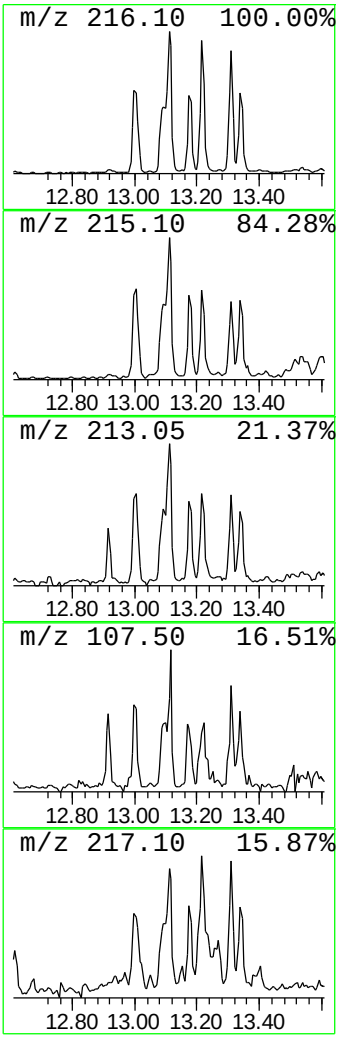
Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	5.90 ng	376624	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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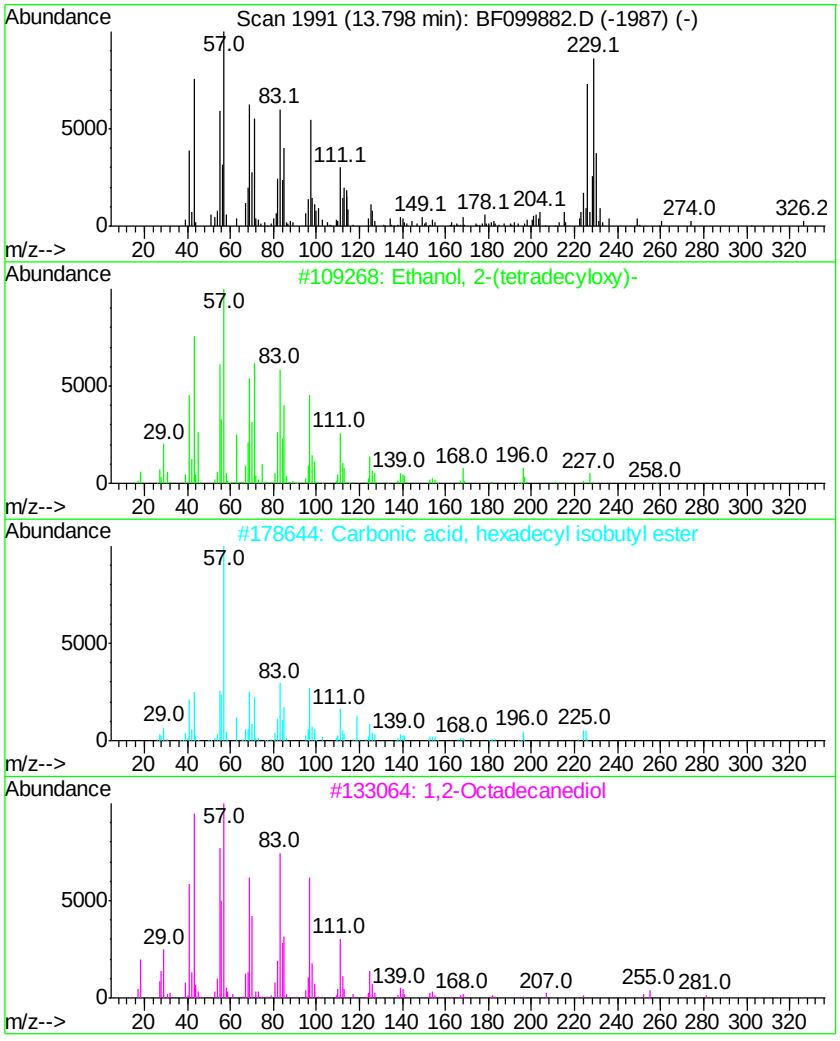
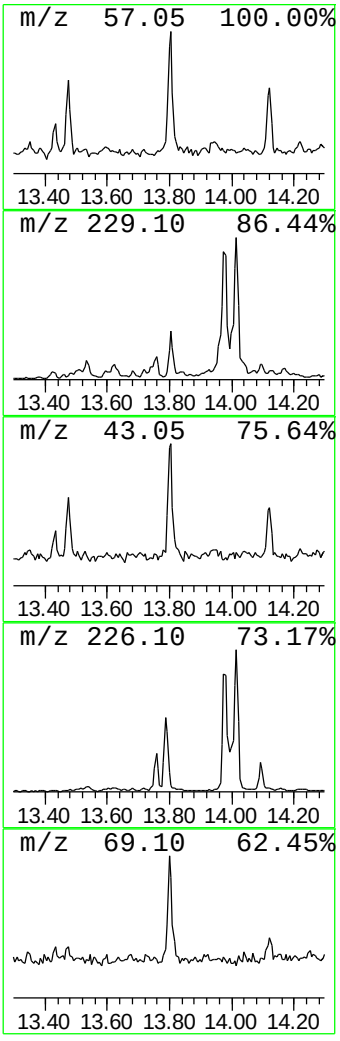
Peak Number 16 Ethanol, 2-(tetradecyloxy)- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	4.04 ng	258277	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	25
2	Carbonic acid, hexadecyl isobuty...	342	C21H42O3	1000314-61-3	15
3	1,2-Octadecanediol	286	C18H38O2	020294-76-2	15
4	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	15
5	1-Dodecanol, 2-hexyl-	270	C18H38O	110225-00-8	15





Library Search Compound Report

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Data File : BF099882.D
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Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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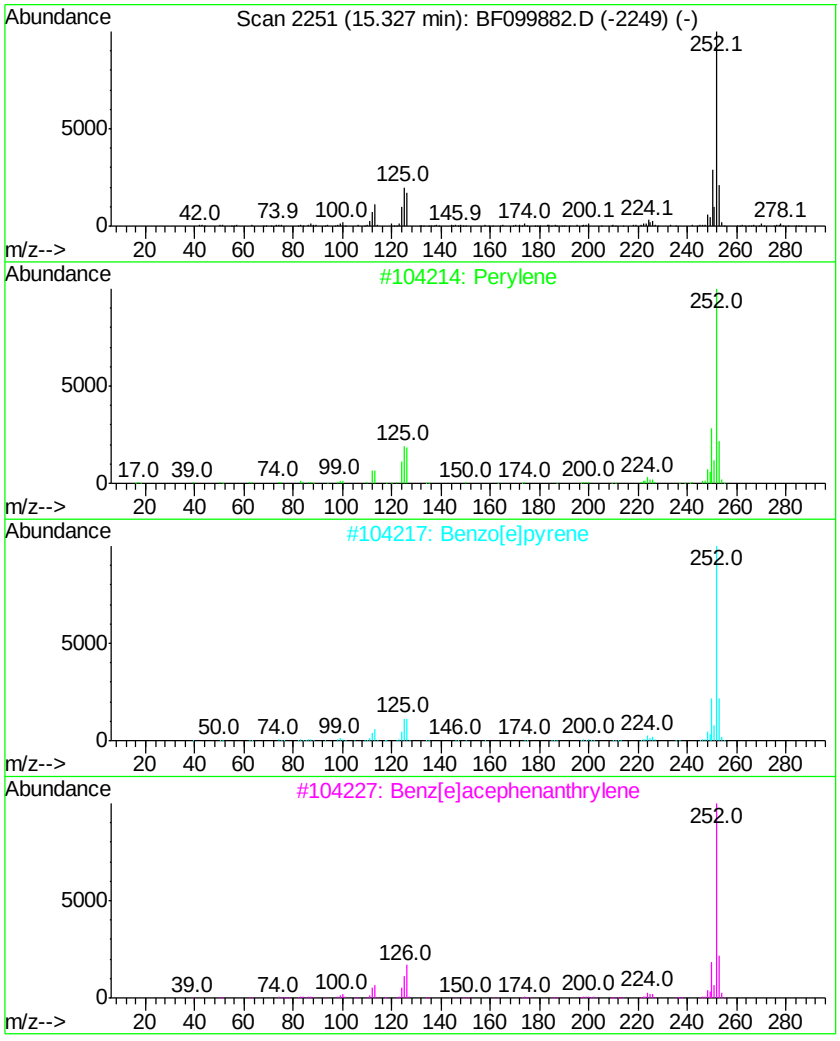
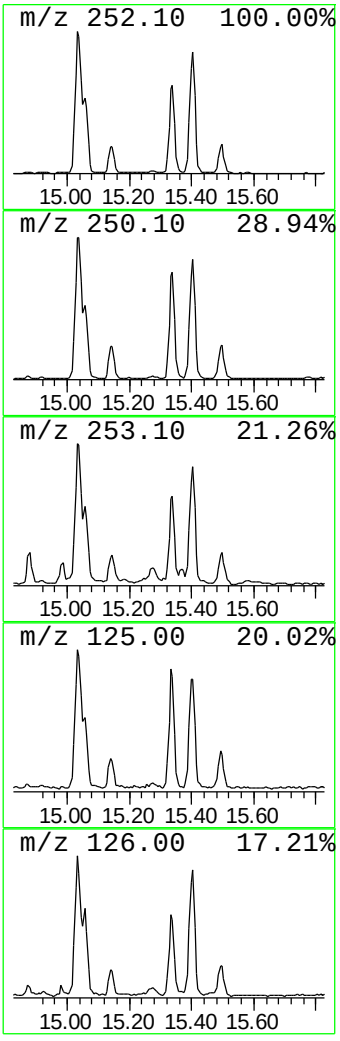
Peak Number 18 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	20.49 ng	532084	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	97
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.M
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TIC Library : C:\DATABASE\NIST11.L
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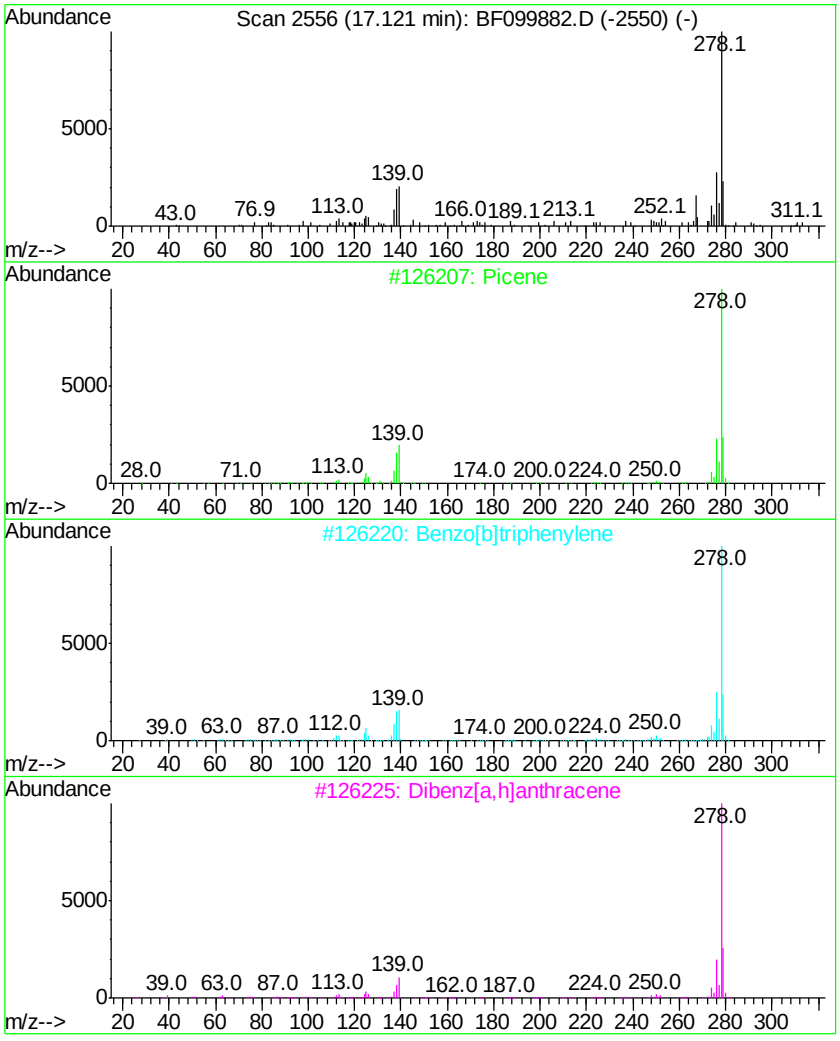
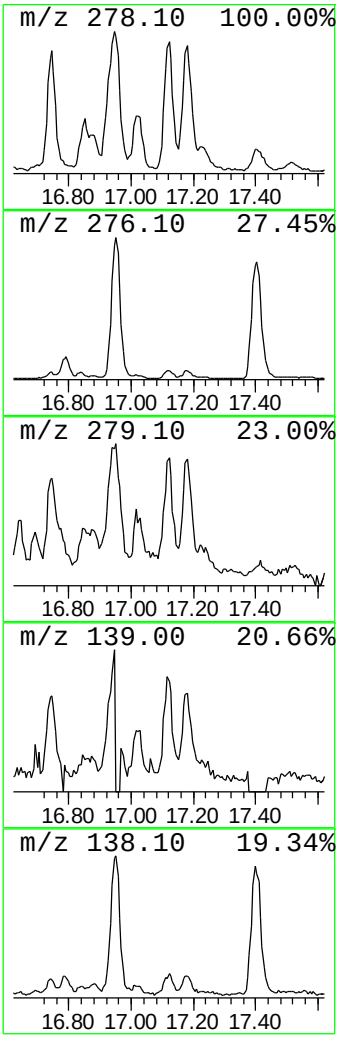
Peak Number 19 Picene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.12	4.37 ng	113608	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	89
4	Benzo[b]chrysene	278	C22H14	000214-17-5	76
5	Pentaphene	278	C22H14	000222-93-5	70





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Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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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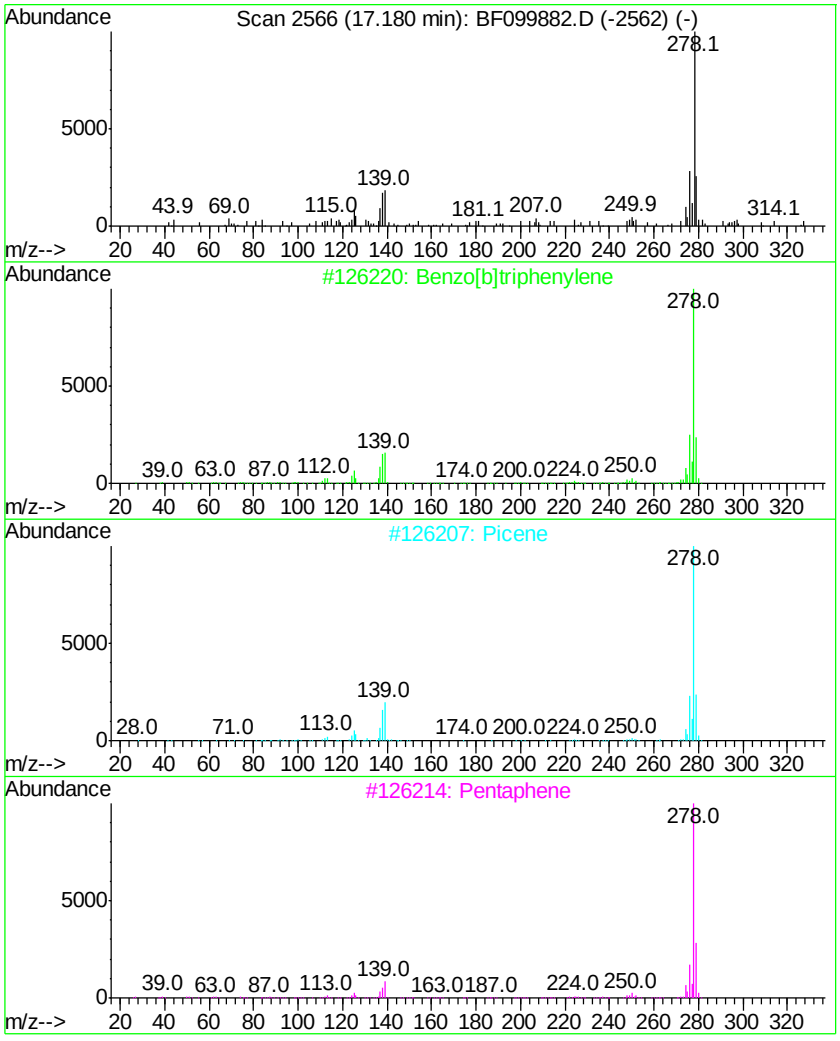
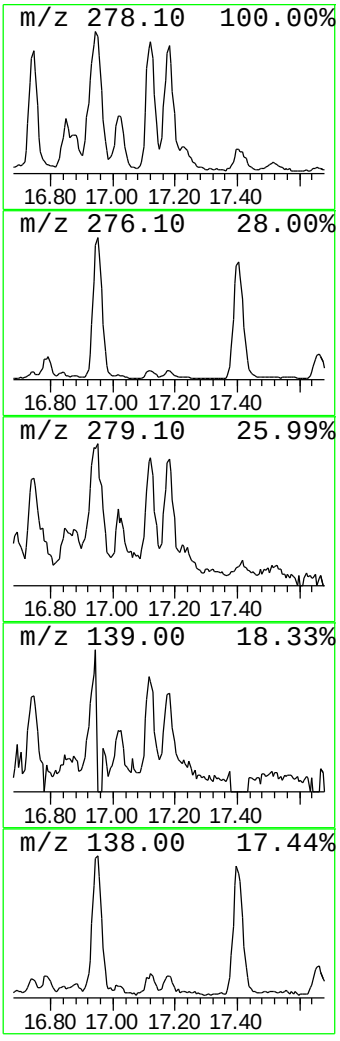
Peak Number 20 Benzo[b]triphenylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.18	4.45 ng	115507	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	Picene	278	C22H14	000213-46-7	95
3	Pentaphene	278	C22H14	000222-93-5	93
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	91
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90





Tentatively Identified Compound (LSC) summary

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Data File : BF099882.D
Acq On : 27 Oct 2017 17:27
Operator : SJ/JU
Sample : I6112-09 2X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3-MARION26KV-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102317.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	6.5	ng	178900	1	6.79	551967	20.0
unknown6.56	6.56	36.8	ng	1015610	1	6.79	551967	20.0
Benzophenone	10.55	9.5	ng	421670	3	9.84	884807	20.0
Dodecane, 2,7,10-...	10.74	4.5	ng	186141	4	11.33	837483	20.0
Phenanthrene, 2-m...	11.83	6.0	ng	250971	4	11.33	837483	20.0
4H-Cyclopenta[def...	11.95	8.0	ng	333424	4	11.33	837483	20.0
Naphthalene, 2-ph...	12.13	4.4	ng	184297	4	11.33	837483	20.0
9,10-Anthracenedione	12.17	3.9	ng	163470	4	11.33	837483	20.0
Phenanthrene, 2,5...	12.39	5.1	ng	213772	4	11.33	837483	20.0
Pyrene, 1-methyl-	13.00	3.9	ng	247841	5	13.99	1277200	20.0
Fluoranthene, 2-m...	13.11	5.9	ng	376624	5	13.99	1277200	20.0
Ethanol, 2-(tetra...	13.80	4.0	ng	258277	5	13.99	1277200	20.0
Perylene	15.33	20.5	ng	532084	6	15.46	519433	20.0
Picene	17.12	4.4	ng	113608	6	15.46	519433	20.0
Benzo[b]triphenylene	17.18	4.5	ng	115507	6	15.46	519433	20.0