LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM02.2-EPA-BM052016.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.975	737	746	761	rVB	451406	744584	23.27%	1.635%
2	7.134	765	773	785	rBV	360993	558710	17.46%	1.227%
3	7.334	800	807	815	rVB	471302	751288	23.48%	1.650%
4	7.798	880	886	893	rVB	517996	826251	25.82%	1.815%
5	8.510	996	1007	1016	rBV	538635	877333	27.41%	1.927%
6	8.622	1019	1026	1033	rVV	53294	87767	2.74%	0.193%
7	8.957	1076	1083	1091	rVB	441054	717975	22.43%	1.577%
8	9.675	1197	1205	1215	rBV	364103	619424	19.35%	1.360%
9	10.216	1290	1297	1307	rBV	571901	953212	29.78%	2.094%
10	10.592	1351	1361	1366	rBV	751944	1327429	41.48%	2.915%
11	10.639	1366	1369	1377	rVB	221682	352114	11.00%	0.773%
12	10.728	1377	1384	1395	rBV	392556	718725	22.46%	1.579%
13	12.251	1637	1643	1650	rVB	131174	209623	6.55%	0.460%
14	12.475	1673	1681	1688	rVB	98981	160725	5.02%	0.353%
15	13.263	1804	1815	1821	rBV2	58643	106267	3.32%	0.233%
16	13.463	1844	1849	1859	rBV	20825	40292	1.26%	0.088%
17	13.610	1867	1874	1881	rVB3	30965	75450	2.36%	0.166%
18	13.757	1893	1899	1904	rBV	59095	98053	3.06%	0.215%
19	13.845	1904	1914	1918	rVV	993082	1434410	44.82%	3.150%
20	13.892	1918	1922	1930	rVB	563080	805147	25.16%	1.768%
21	14.127	1956	1962	1972	rVB	1130366	1805129	56.40%	3.965%
22	14.333	1992	1997	2003	rBV	59669	75239	2.35%	0.165%
23	14.439	2005	2015	2021	rVV2	1112961	1760467	55.01%	3.866%
24	14.504	2021	2026	2033	rVB	101766	168919	5.28%	0.371%
25	14.651	2044	2051	2060	rBV	387603	630746	19.71%	1.385%
26	14.833	2078	2082	2088	rVB	70225	107146	3.35%	0.235%
27	15.227	2142	2149	2152	rBV3	29735	54338	1.70%	0.119%
28	15.286	2155	2159	2164	rVB	71389	96440	3.01%	0.212%
29	15.427	2177	2183	2189	rBV	1435542	2123162	66.34%	4.663%
30	15.486	2189	2193	2199	rVB	205381	286974	8.97%	0.630%
31	15.557	2199	2205	2211	rBV	298091	458856	14.34%	1.008%
32	15.651	2217	2221	2222	rBV3	29658	41417	1.29%	0.091%
33	15.774	2239	2242	2250	rVB4	31890	55794	1.74%	0.123%
34	15.933	2261	2269	2275	rVB3	20557	58718	1.83%	0.129%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM02.2-EPA-BM052016.M
Title : SVOA CALIBRATION

35	16.145	2301	2305	2307	rBV2	100046	141726	4.43%	0.311%
36	16.486	2356	2363	2367	rBV	58213	111335	3.48%	0.245%
37	16.533	2369	2371	2376	rVB	36196	46244	1.44%	0.102%
38	16.639	2385	2389	2394	rVB2	29167	45749	1.43%	0.100%
39	16.833	2418	2422	2428	rVB	51032	81387	2.54%	0.179%
40	16.933	2436	2439	2442	rVV	40167	44693	1.40%	0.098%
41	16.998	2446	2450	2459	rVB	173022	267903	8.37%	0.588%
42	17.180	2475	2481	2485	rBV	1367222	2062430	64.44%	4.530%
43	17.221	2485	2488	2493	rVV	1625437	2241519	70.04%	4.923%
44	17.280	2493	2498	2502	rVV2	1544218	2381388	74.41%	5.230%
45	17.309	2502	2503	2509	rVB	309164	311165	9.72%	0.683%
46	17.586	2547	2550	2554	rVB	65844	76440	2.39%	0.168%
47	17.668	2562	2564	2566	rBV2	34513	39947	1.25%	0.088%
48	17.757	2576	2579	2588	rVB2	76850	127514	3.98%	0.280%
49	18.051	2625	2629	2633	rBV	242836	362783	11.34%	0.797%
50	18.098	2634	2637	2642	rVB	291603	415913	13.00%	0.913%
51	18.180	2648	2651	2657	rVB	86307	119644	3.74%	0.263%
52	18.251	2657	2663	2666	rVV2	282566	498026	15.56%	1.094%
53	18.286	2666	2669	2674	rVB	149311	192608	6.02%	0.423%
54	18.551	2710	2714	2718	rBV	192501	267199	8.35%	0.587%
55	18.598	2718	2722	2727	rVB3	137316	211388	6.61%	0.464%
56	18.974	2782	2786	2790	rBV	99192	163279	5.10%	0.359%
57	19.233	2825	2830	2837	rVB	1492877	2040339	63.75%	4.481%
58	19.568	2882	2887	2890	rBV	1879044	2871869	89.74%	6.307%
59	19.598	2890	2892	2897	rVB	1463721	1768034	55.25%	3.883%
60	20.086	2971	2975	2983	rVB2	357285	636198	19.88%	1.397%
61	20.192	2991	2993	2997	rVB	184136	187373	5.85%	0.412%
62	20.392	3024	3027	3031	rBV	123038	177121	5.53%	0.389%
63	21.356	3185	3191	3195	rBV2	1888257	3200346	100.00%	7.029%
64	21.392	3195	3197	3207	rVB	766030	946924	29.59%	2.080%
65	23.491	3549	3554	3559	rBV2	1174912	2482438	77.57%	5.452%
66	23.638	3574	3579	3585	rVB	985323	1822917	56.96%	4.004%

Sum of corrected areas: 45531963

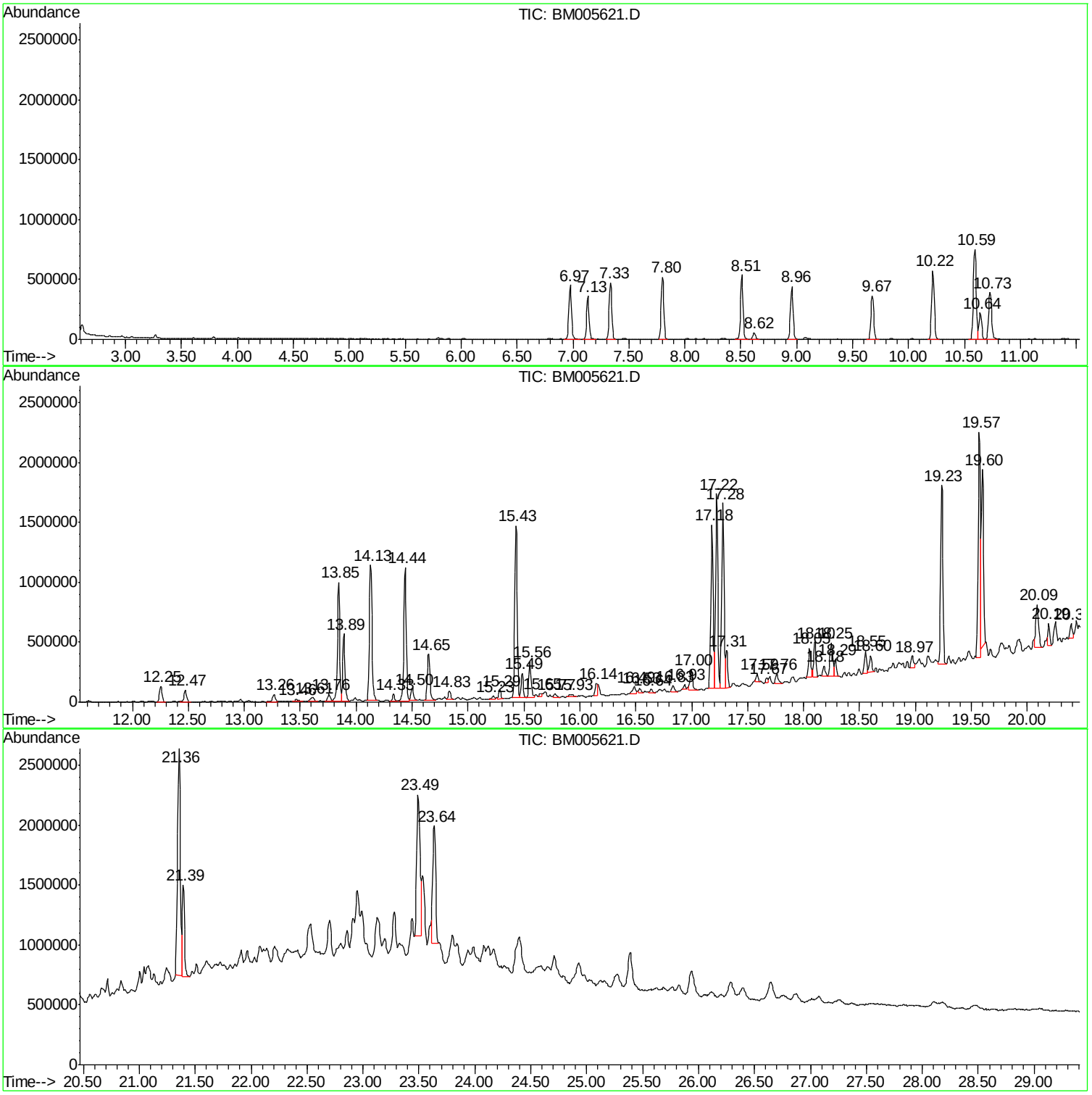
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
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Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

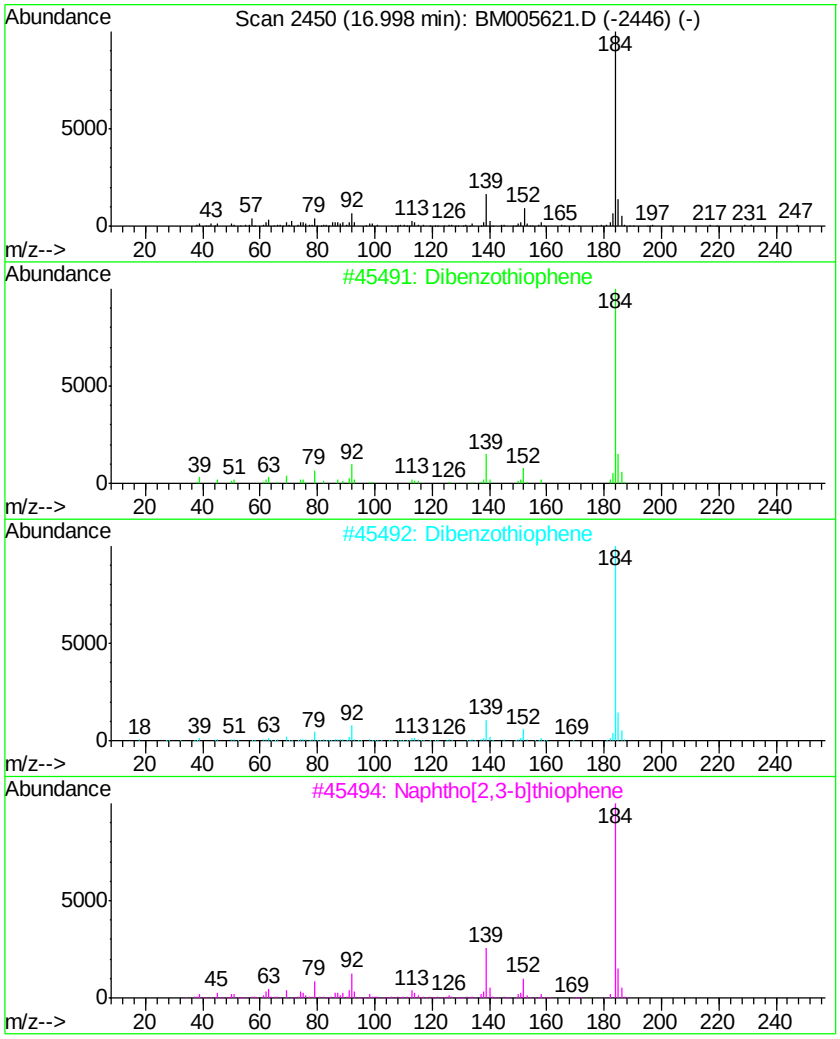
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

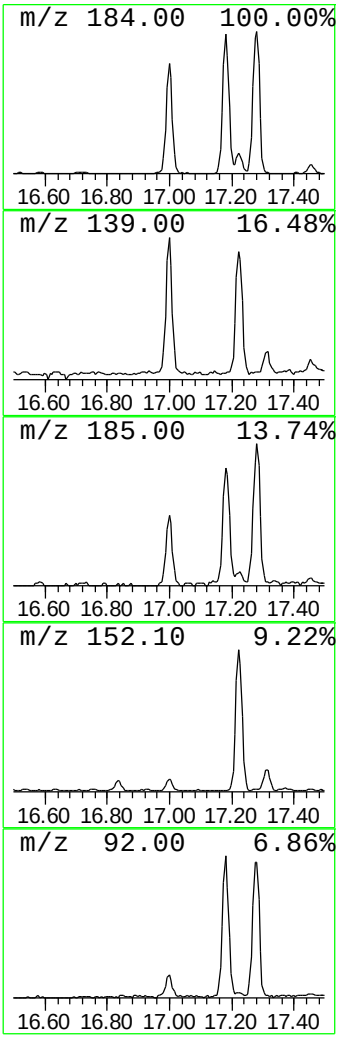
****

Peak Number 2 Dibenzothiophene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.00	2.60 ng/ul	267903	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Dibenzothiophene	184	C12H8S	000132-65-0	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

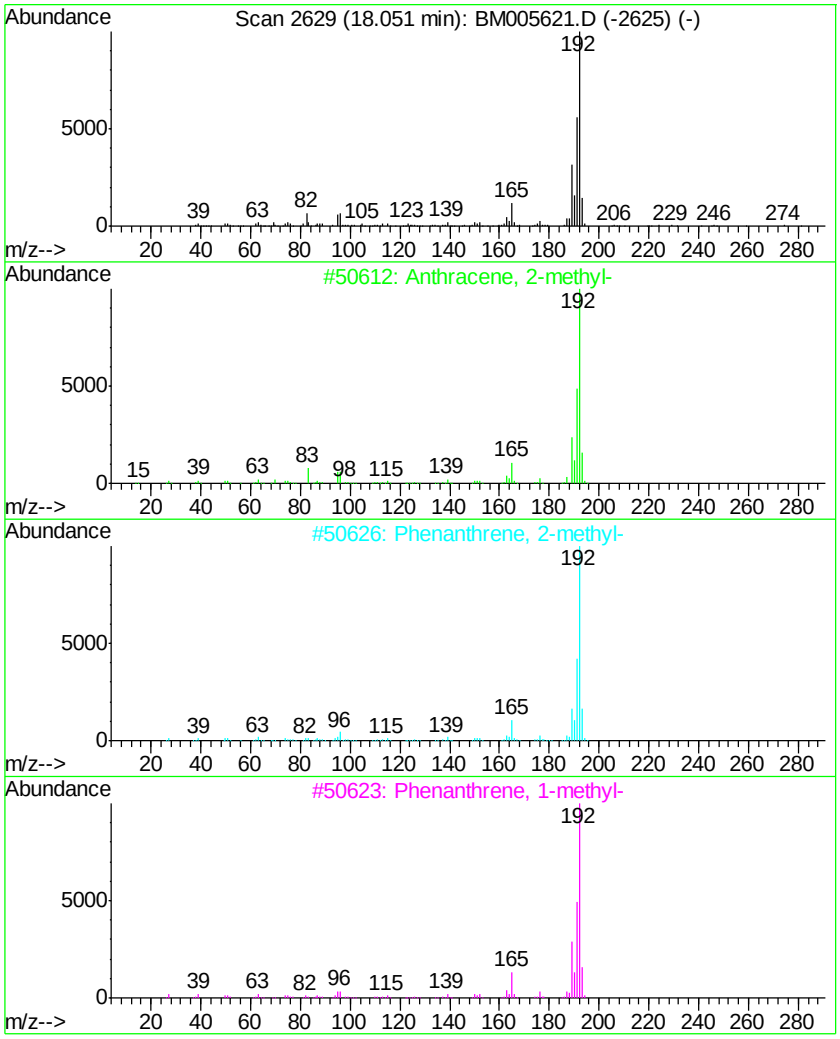
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

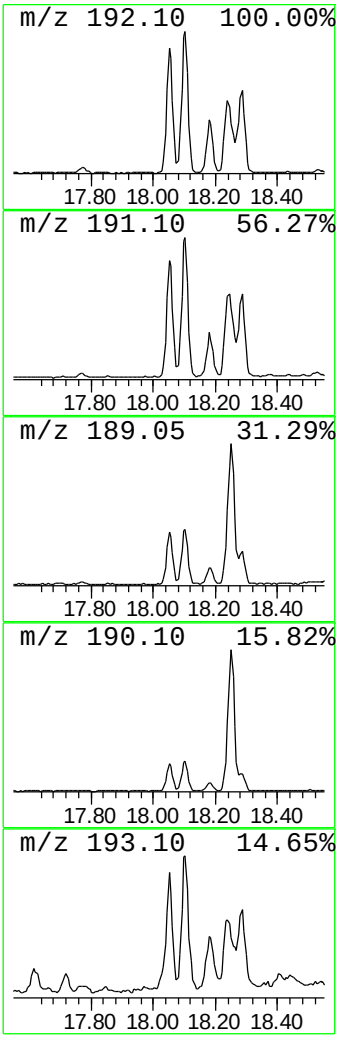
****

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	3.52 ng/ul	362783	Phenanthrene-d10	17.18

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





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

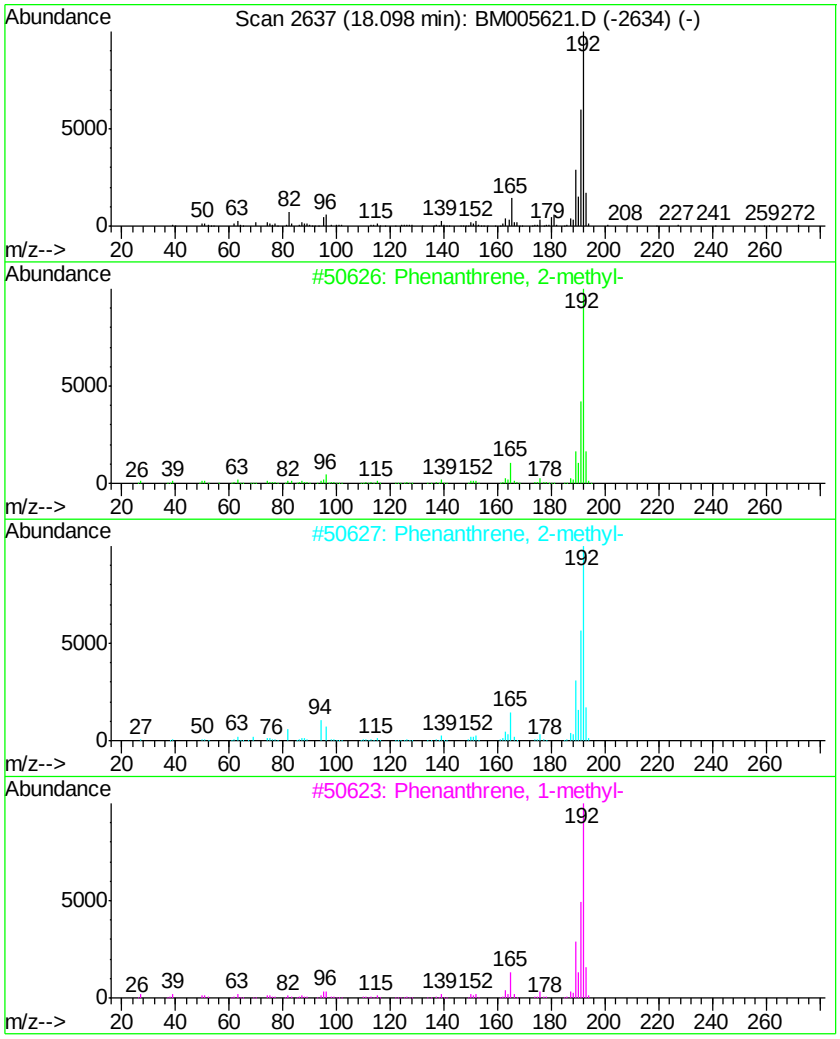
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

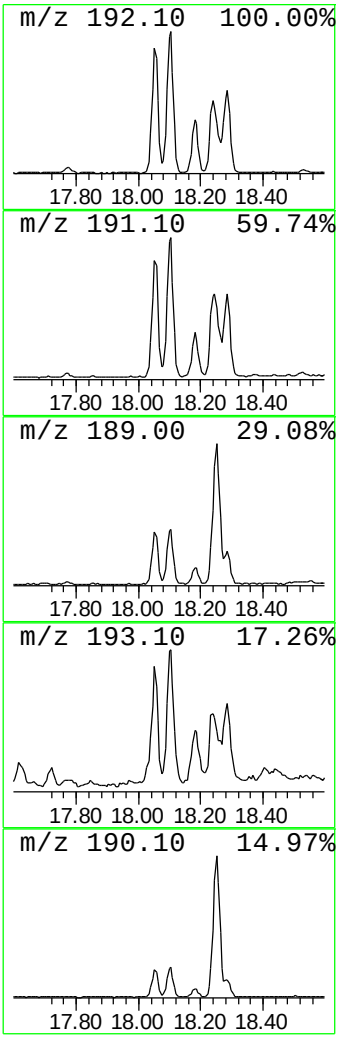
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	4.03 ng/ul	415913	Phenanthrene-d10	17.18

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





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

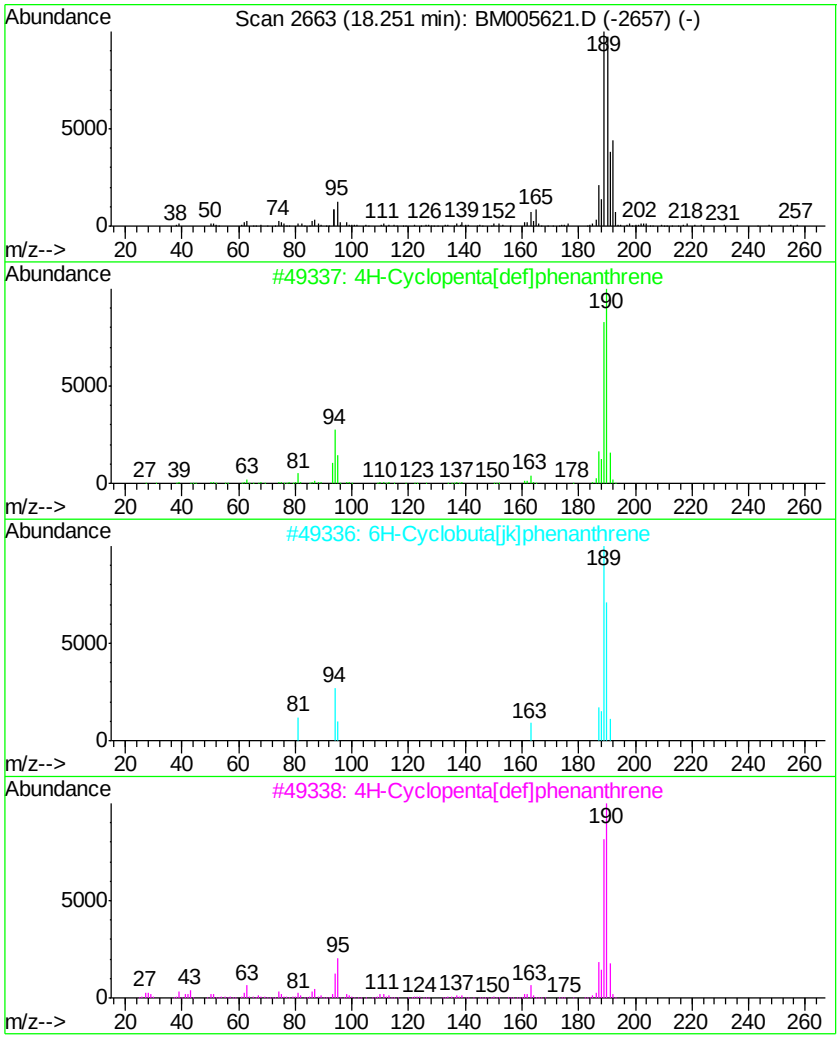
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

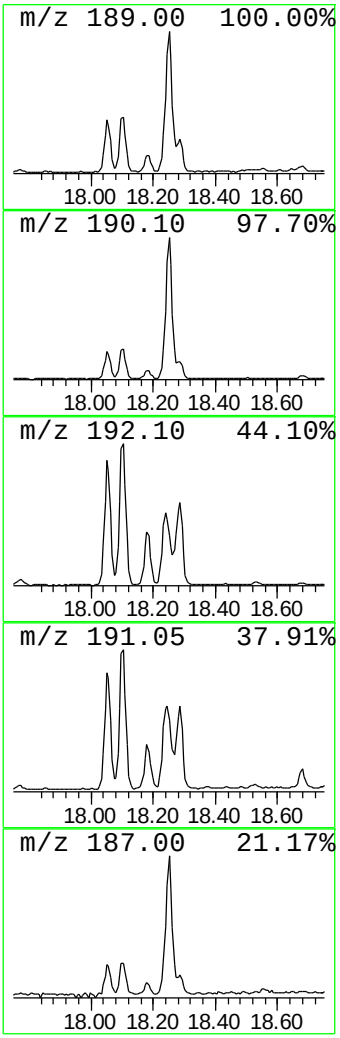
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.25	4.83 ng/ul	498026	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47
5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	46





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

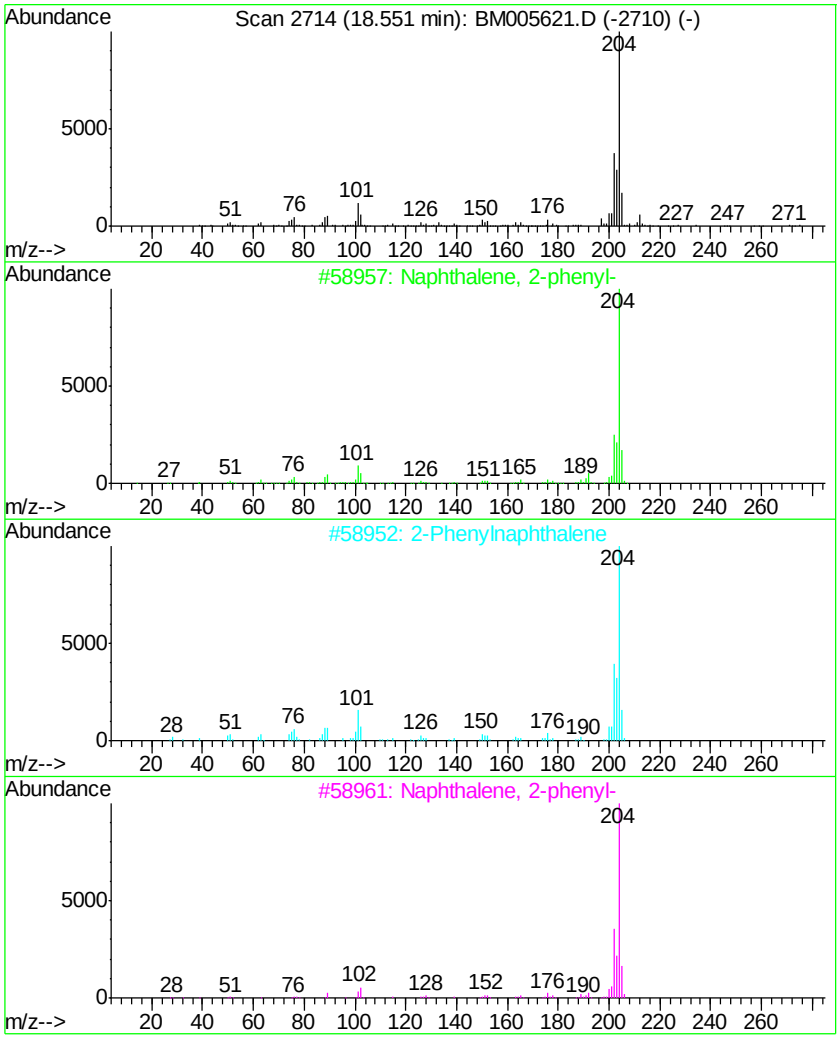
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

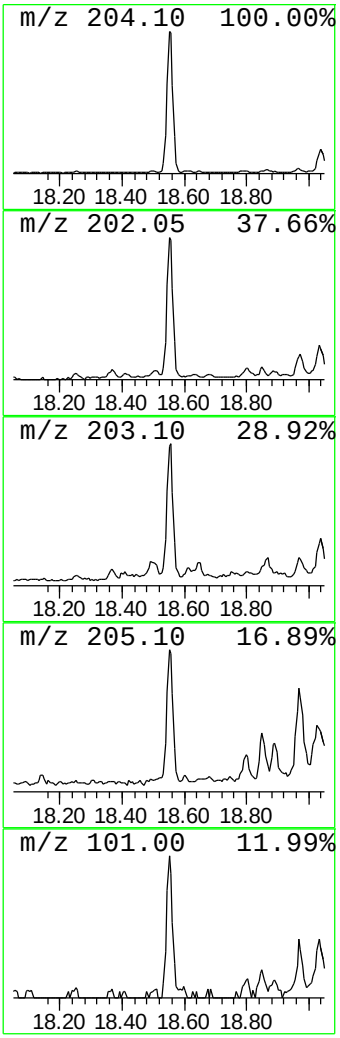
****

Peak Number 6 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.55	2.59 ng/ul	267199	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	89
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
4	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	87
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

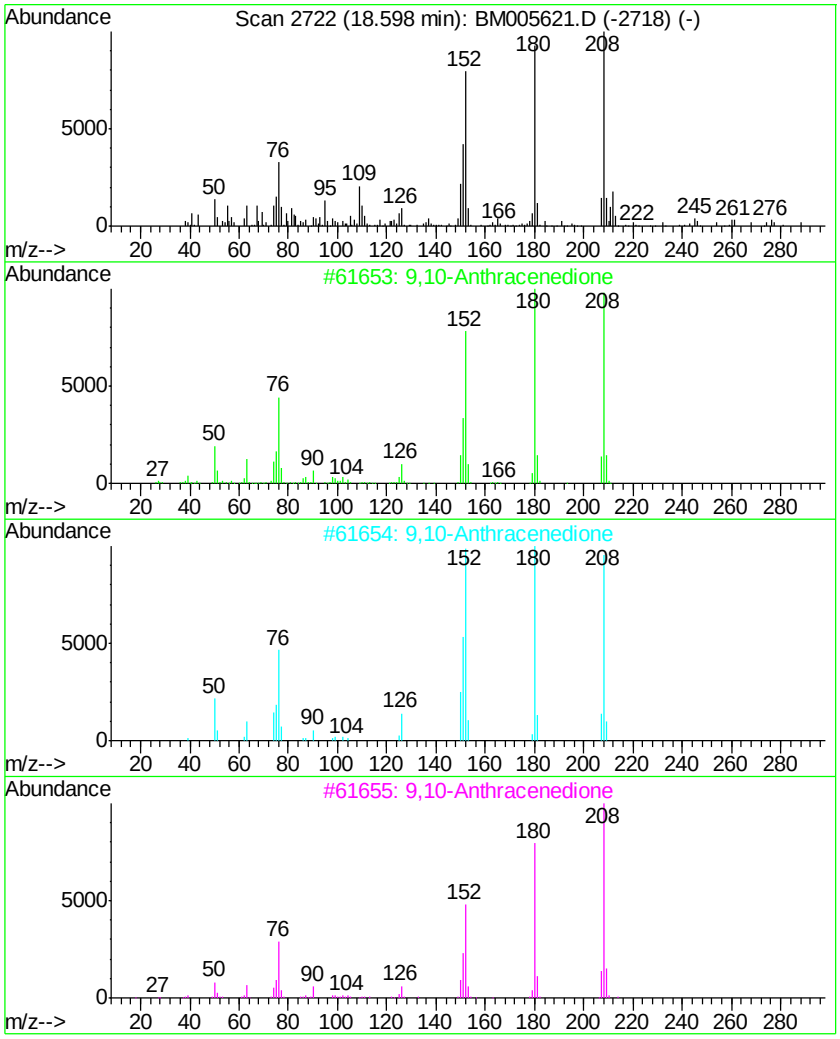
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

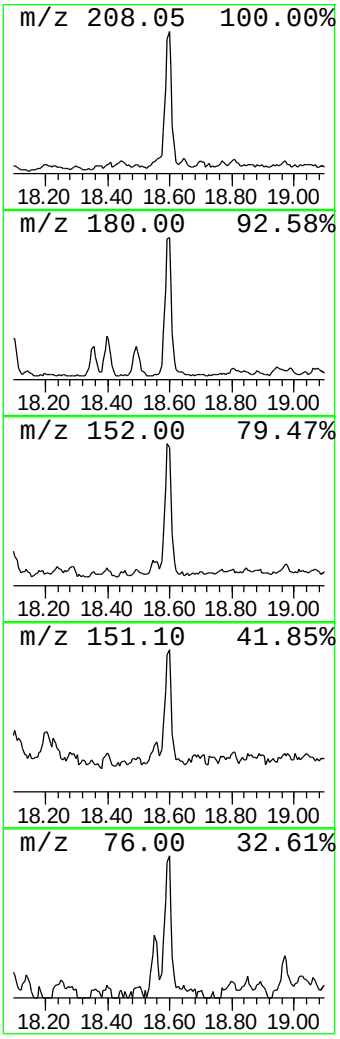
****

Peak Number 7 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	2.05 ng/ul	211388	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

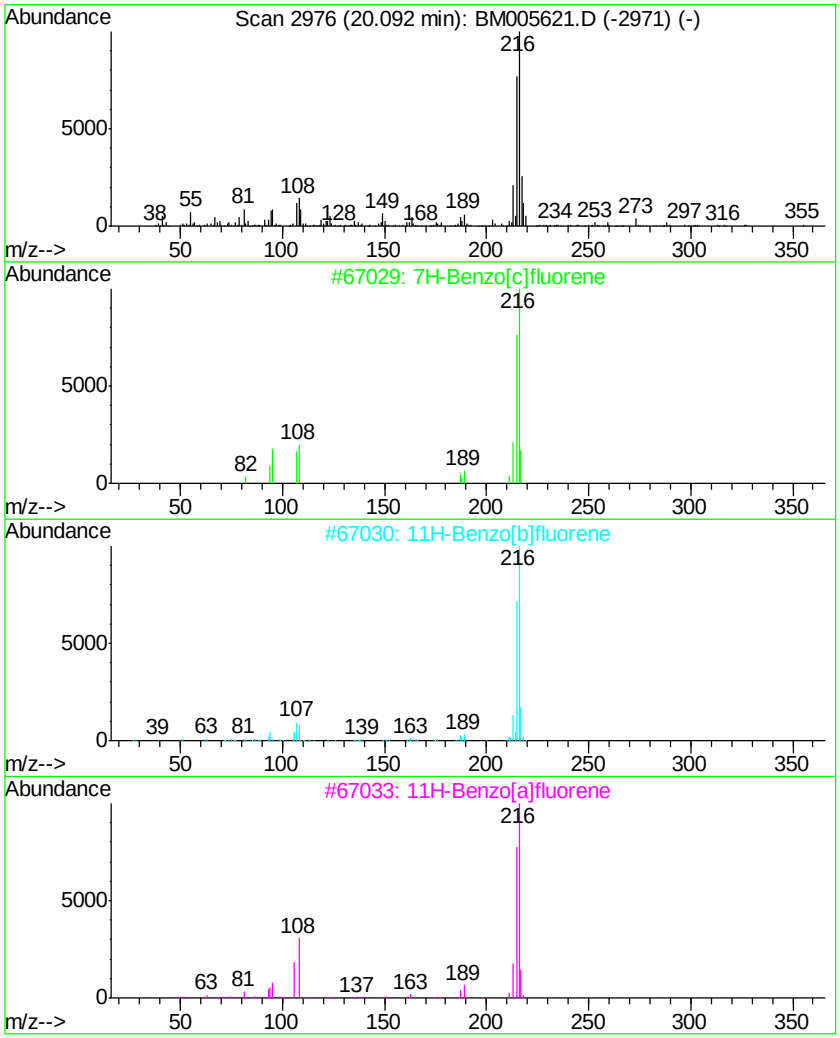
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

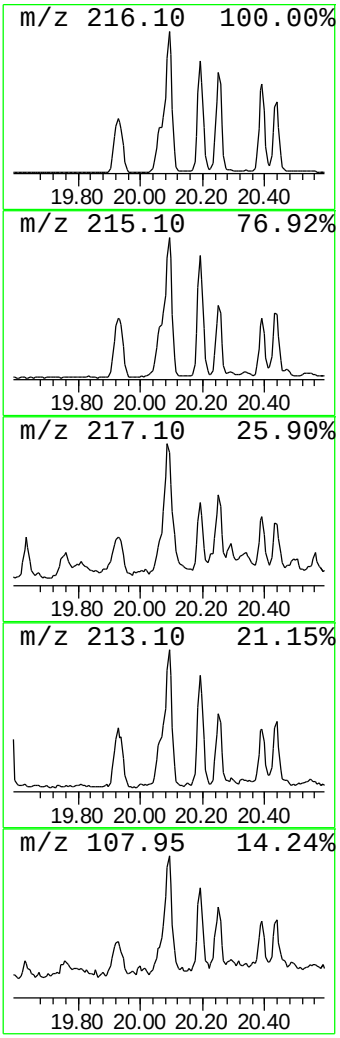
****

Peak Number 8 7H-Benzo[c]fluorene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.09	3.98 ng/ul	636198	Chrysene-d12	21.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	90
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	64
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	62
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	60
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052316\
Data File : BM005621.D
Acq On : 23 May 2016 22:22
Operator : UM/SJ
Sample : H3087-15
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : JHGK8

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dibenzothiophene	17.00	2.6	ng/ul	267903	4	17.18	2062430	20.0
Anthracene, 2-met...	18.05	3.5	ng/ul	362783	4	17.18	2062430	20.0
Phenanthrene, 2-m...	18.10	4.0	ng/ul	415913	4	17.18	2062430	20.0
4H-Cyclopenta[def...	18.25	4.8	ng/ul	498026	4	17.18	2062430	20.0
Naphthalene, 2-ph...	18.55	2.6	ng/ul	267199	4	17.18	2062430	20.0
9,10-Anthracenedione	18.60	2.0	ng/ul	211388	4	17.18	2062430	20.0
7H-Benzo[c]fluorene	20.09	4.0	ng/ul	636198	5	21.36	3200350	20.0